




Interior Lighting

DTC Chart: **BCM**

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices. REFER to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).

BCM DTC Chart

DTC	Description	Action
B1175:01	Driver Door Ajar Switch: General Electrical Failure	<ul style="list-style-type: none"> If the courtesy lamps are always on, GO to Pinpoint Test D If the courtesy lamps are inoperative, GO to Pinpoint Test A
B1176:01	Passenger Door Ajar Switch: General Electrical Failure	<ul style="list-style-type: none"> If the courtesy lamps are always on, GO to Pinpoint Test D If the courtesy lamps are inoperative, GO to Pinpoint Test A
B12C2:11	Puddle Lamp: Circuit Short To Ground	GO to Pinpoint Test C
B12C2:15	Puddle Lamp: Circuit Short To Battery or Open	GO to Pinpoint Test C
B1313:11	Interior Lighting Output: Circuit Short To Ground	GO to Pinpoint Test B
B1313:15	Interior Lighting Output: Circuit Short To Battery or Open	GO to Pinpoint Test B
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The BCM cannot enable the output until the cause of the short is corrected. ADDRESS all other Diagnostic Trouble Codes (DTCs) first. After the cause of the concern is corrected, CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the self-test.
U3000:49	Control Module: Internal Electronic Failure	The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the BCM can withstand. The cause of the excessive current draw MUST be corrected before a new BCM is installed. ADDRESS all other Diagnostic Trouble Codes (DTCs) first. After the cause of the concern is corrected,    VIN required to access Guided Routine (BCM)
All other BCM Diagnostic Trouble Codes (DTCs)	-	REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).

DTC Chart: **Body Control Module B (BCMB)**

Body Control Module B (BCMB) DTC Chart

DTC	Description	Action
B127B:11	Ambient Lighting Zone 1 Output Red LED:	GO to Pinpoint Test I

DTC	Description	Action
	Circuit Short To Ground	
B127B:15	Ambient Lighting Zone 1 Output Red LED: Circuit Short To Battery or Open	GO to Pinpoint Test I
B127D:11	Ambient Lighting Zone 3 Output Red LED: Circuit Short To Ground	GO to Pinpoint Test I
B127D:15	Ambient Lighting Zone 3 Output Red LED: Circuit Short To Battery or Open	GO to Pinpoint Test I
B127E:11	Ambient Lighting Zone 1 Output Green LED: Circuit Short To Ground	GO to Pinpoint Test I
B127E:15	Ambient Lighting Zone 1 Output Green LED: Circuit Short To Battery or Open	GO to Pinpoint Test I
B1280:11	Ambient Lighting Zone 3 Output Green LED: Circuit Short To Ground	GO to Pinpoint Test I
B1280:15	Ambient Lighting Zone 3 Output Green LED: Circuit Short To Battery or Open	GO to Pinpoint Test I
B1281:11	Ambient Lighting Zone 1 Output Blue LED: Circuit Short To Ground	GO to Pinpoint Test I
B1281:15	Ambient Lighting Zone 1 Output Blue LED: Circuit Short To Battery or Open	GO to Pinpoint Test I
B1283:11	Ambient Lighting Zone 3 Output Blue LED: Circuit Short To Ground	GO to Pinpoint Test I
B1283:15	Ambient Lighting Zone 3 Output Blue LED: Circuit Short To Battery or Open	GO to Pinpoint Test I
U1000:00	Solid State Driver Protection Active - Driver Disabled: No Sub Type Information	The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The Body Control Module B (BCMB) cannot enable the output until the cause of the short is corrected. ADDRESS all other Diagnostic Trouble Codes (DTCs) first. After the cause of the concern is corrected, CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the self-test.
U3000:49	Control Module: Internal Electronic Failure	The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the Body Control Module B (BCMB) can withstand. The cause of the excessive current draw MUST be corrected before a new Body Control Module B (BCMB) is installed. ADDRESS all other Diagnostic Trouble Codes (DTCs) first. After the cause of the concern is corrected, INSTALL a new Body Control Module B (BCMB). REFER to: Body Control Module B (BCMB) (419-10 Multifunction Electronic Modules, Removal and Installation).

DTC	Description	Action
All other Body Control Module B (BCMB) Diagnostic Trouble Codes (DTCs)	-	REFER to: Body Control Module B (BCMB) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).

Symptom Chart(s)

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices. REFER to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).

Symptom Chart: Interior Lighting

Symptom Chart

Condition	Possible Sources	Actions
A module does not respond to the scan tool	<ul style="list-style-type: none"> Fuse Wiring, terminals or connectors Module 	REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).
The courtesy lamps do not illuminate with a door open	Refer to the Pinpoint Test	GO to Pinpoint Test A
One or both interior overhead courtesy lamps are inoperative or the interior courtesy lamps stay on continuously	Refer to the Pinpoint Test	<ul style="list-style-type: none"> If one or both map lamps are also inoperative, GO to Pinpoint Test E If the map lamps operate correctly, GO to Pinpoint Test B
One or both pony projection lamps are inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test C
All the courtesy lamps stay on continuously	Refer to the Pinpoint Test	GO to Pinpoint Test D
One or more demand lamps are inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test E
The luggage compartment lamp is inoperative or on continuously	Refer to the Pinpoint Test	GO to Pinpoint Test F
The battery saver does not deactivate after time-out	Refer to the Pinpoint Test	GO to Pinpoint Test G
The ambient lighting is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test H
The ambient lighting does not cycle through all color combinations	Refer to the Pinpoint Test	GO to Pinpoint Test I
An individual ambient lighting <u>LED</u> is inoperative/does not cycle through all color combinations	Refer to the Pinpoint Test	GO to Pinpoint Test J

Pinpoint Tests

The Courtesy Lamps Do Not Illuminate With a Door Open

Refer to Wiring Diagrams Cell [117](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1175:01	Driver Door Ajar Switch: General Electrical Failure	An on-demand <u>DTC</u> that sets when the <u>BCM</u> detects a fault on the <u>LH</u> front door ajar circuit.
B1176:01	Passenger Door Ajar Switch: General Electrical Failure	An on-demand <u>DTC</u> that sets when the <u>BCM</u> detects a fault on the <u>RH</u> front door ajar circuit.

Possible Sources

- Wiring, terminals or connectors
- Door latch
- BCM

PINPOINT TEST A: THE COURTESY LAMPS DO NOT ILLUMINATE WITH A DOOR OPEN

A1 CHECK THE DOOR AJAR SWITCH OPERATION

- Disconnect suspect door latch.

Do the courtesy lamps illuminate?

Yes	INSTALL a new front door latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to A2

A2 CHECK THE DOOR AJAR SWITCH INPUT CIRCUIT FOR A SHORT TO GROUND

- Disconnect BCM C2280E.
- Measure:

[Click to display connectors](#)

LH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C525 Pin 3	Ω	Ground

[Click to display connectors](#)

RH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C609 Pin 6	Ω	Ground


Is the resistance greater than 10,000 ohms?

Yes	GO to A3
No	REPAIR the circuit.

A3 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the BCM connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK <u>OASIS</u> for any applicable service articles: <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,  VIN required to access Guided Routine (BCM)
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

One Or Both Interior Overhead Courtesy Lamps Are Inoperative Or The Interior Courtesy Lamps Stay On Continuously

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1313:11	Interior Lighting Output: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the <u>BCM</u> detects a short to ground from the interior lighting output circuit.
B1313:15	Interior Lighting Output: Circuit Short To Battery or Open	A continuous memory and on-demand <u>DTC</u> that sets when the <u>BCM</u> detects an open or short to voltage from the interior lighting output circuit.
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This <u>DTC</u> sets when the <u>BCM</u> has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The <u>BCM</u> cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.
U3000:49	Control Module: Internal Electronic Failure	This <u>DTC</u> sets when the <u>BCM</u> has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the <u>BCM</u> can withstand. CORRECT the cause of the excessive current draw before installing a new <u>BCM</u> .

Possible Sources

- Wiring, terminals or connectors
- Bulb
- Interior lamp

- [BCM](#)

PINPOINT TEST B: ONE OR BOTH INTERIOR OVERHEAD COURTESY LAMPS ARE INOPERATIVE OR THE INTERIOR COURTESY LAMPS STAY ON CONTINUOUSLY

B1 CHECK THE COURTESY LAMP OPERATION WITH THE DOORS CLOSED

- Close the doors.
- Press the [RKE](#) LOCK button.

Do the interior courtesy lamps turn off?

Yes	If one interior overhead courtesy lamp is inoperative, INSTALL a new courtesy lamp bulb. If the lamp is still inoperative, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). If both interior overhead courtesy lamps are inoperative, GO to B2
No	GO to B5

B2 CHECK FOR VOLTAGE TO THE INTERIOR OVERHEAD COURTESY LAMPS

- Disconnect Overhead Console [C930](#).
- Open a door.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 4	\overline{V}	Ground

Is the voltage greater than 11 volts?

Yes	GO to B3
No	GO to B4

B3 CHECK THE INTERIOR OVERHEAD COURTESY LAMPS GROUND CIRCUIT

- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 4	\overline{V}	C930 Pin 5

Is the voltage greater than 11 volts?

Yes	INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation).
No	REPAIR the circuit

B4 CHECK THE INTERIOR OVERHEAD COURTESY LAMPS VOLTAGE CIRCUIT FOR AN OPEN

- Disconnect [BCM](#) [C2280C](#).
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 4	Ω	C2280C Pin 13

Is the resistance less than 3 ohms?

Yes	GO to B6
No	REPAIR the circuit.

B5 CHECK THE INTERIOR OVERHEAD COURTESY LAMPS VOLTAGE CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect [BCM](#) [C2280C](#).
- Disconnect Overhead Console [C930](#).
- Ignition ON.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 4	\overline{V}	Ground




Is any voltage present?

Yes	REPAIR the circuit.
No	GO to B6

B6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all [BCM](#) connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the [BCM](#) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,    VIN required to access Guided Routine (BCM)
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

One Or Both Pony Projection Lamps Are Inoperative Or Always On

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B12C2:11	Puddle Lamp: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the <u>BCM</u> detects a short to ground from the puddle lamp (pony projection lamp) output circuit.
B12C2:15	Puddle Lamp: Circuit Short To Battery or Open	A continuous memory and on-demand <u>DTC</u> that sets when the <u>BCM</u> detects an open or a short to voltage from the exterior door handle puddle lamp (pony projection lamp) output circuit.
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This <u>DTC</u> sets when the <u>BCM</u> has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The <u>BCM</u> cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.
U3000:49	Control Module: Internal Electronic Failure	This <u>DTC</u> sets when the <u>BCM</u> has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the <u>BCM</u> can withstand. CORRECT the cause of the excessive current draw before installing a new <u>BCM</u> .

Possible Sources

- Wiring, terminals or connectors
- Exterior mirror assembly
- Pony projection lamp
- BCM

Visual Inspection and Diagnostic Pre-checks

- Inspect the exterior mirror assembly for damage.

PINPOINT TEST C: ONE OR BOTH PONY PROJECTION LAMPS ARE INOPERATIVE OR ALWAYS ON

C1 CHECK THE PONY PROJECTION LAMP OPERATION WITH THE DOORS CLOSED

- Close the doors.
- Press the RKE LOCK button.

Do the pony projection lamps turn off?


Yes	If one pony projection lamp is inoperative, GO to C2 If both pony projection lamps are inoperative, GO to C5
No	GO to C7

C2 CHECK THE PONY PROJECTION LAMP VOLTAGE SUPPLY CIRCUIT FOR VOLTAGE

- Disconnect LH exterior mirror [C520](#) or RH exterior mirror [C626](#).
- Ignition ON.
- Using a diagnostic scan tool, select the BCM Courtesy Puddle Step Lamps (PUDDLE_LMPS) active command.
- Command the pony projection lamps (Courtesy Puddle Step Lamps) ON.
- Measure:


[Click to display connectors](#)

LH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C520 Pin 5		Ground

[Click to display connectors](#)

RH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C626 Pin 5		Ground

Is the voltage greater than 11 volts?


Yes	GO to C3
No	GO to C4

C3 CHECK THE PONY PROJECTION LAMP GROUND CIRCUIT

• Measure:


[Click to display connectors](#)

LH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C520 Pin 5		C520 Pin 7

[Click to display connectors](#)

RH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C626 Pin 5		C626 Pin 7

Is the voltage greater than 11 volts?

Yes	INSTALL a new pony projection lamp. REFER to: Exterior Mirror (501-09 Rear View Mirrors, Removal and Installation).
No	REPAIR the circuit.

C4 CHECK THE PONY PROJECTION LAMP CIRCUIT FOR AN OPEN TO THE LAMP

- Ignition OFF.
- Disconnect [BCM C2280C](#).
- Measure:

[Click to display connectors](#)

LH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C520 Pin 5	Ω	C2280C Pin 26

[Click to display connectors](#)

RH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C626 Pin 5	Ω	C2280C Pin 26

Is the resistance less than 3 ohms?

Yes	GO to C8
No	REPAIR the circuit.

C5 CHECK THE PONY PROJECTION LAMP CIRCUIT FOR AN OPEN

- Disconnect LH exterior mirror [C520](#).
- Disconnect BCM [C2280C](#).
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C520 Pin 5	Ω	C2280C Pin 26

Is the resistance less than 3 ohms?

Yes	GO to C6
No	REPAIR the circuit.

C6 CHECK THE PONY PROJECTION LAMP CIRCUIT FOR A SHORT TO GROUND

- Disconnect RH exterior mirror [C626](#).
- Measure:

[Click to display connectors](#)

LH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C520 Pin 5	Ω	Ground

[Click to display connectors](#)

RH Pony Projection Lamp

Positive Lead	Measurement / Action	Negative Lead
C626 Pin 5	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to C8
No	REPAIR the circuit.

C7 CHECK THE PONY PROJECTION LAMP CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect [BCM C2280C](#).
- Observe the pony projection lamps.




Are the pony projection lamps illuminated?

Yes	REPAIR the circuit.
No	GO to C8

C8 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all [BCM](#) connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the [BCM](#) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,    VIN required to access Guided Routine (BCM)
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

All The Courtesy Lamps Stay On Continuously

Refer to Wiring Diagrams Cell [117](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1175:01	Driver Door Ajar Switch: General Electrical Failure	An on-demand <u>DTC</u> that sets when the <u>BCM</u> detects a fault on the <u>LH</u> front door ajar circuit.
B1176:01	Passenger Door Ajar Switch: General Electrical Failure	An on-demand <u>DTC</u> that sets when the <u>BCM</u> detects a fault on the <u>RH</u> front door ajar circuit.

Possible Sources

- Wiring, terminals or connectors
- Ajar switch
- BCM

PINPOINT TEST D: ALL THE COURTESY LAMPS STAY ON CONTINUOUSLY

D1 CHECK THE DOOR AJAR SWITCH PARAMETER IDENTIFICATIONS (PIDS)

- Ignition ON.
- Using a diagnostic scan tool, view BCM Parameter Identifications (PIDs).
- Monitor the BCM DOOR_SW_DRVR and DOOR_SW_PSGR Parameter Identifications (PIDs) while opening and closing the doors.

Do all the door ajar switch PID values agree with the door positions?

Yes	For the interior courtesy lamps, GO to Pinpoint Test B For the pony projection lamps, GO to Pinpoint Test C
No	GO to D2

D2 BYPASS THE SUSPECT DOOR LATCH

- Disconnect suspect door latch.
- Connect a fused jumper wire:


[Click to display connectors](#)

LH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C525 Pin 3		C525 Pin 5

[Click to display connectors](#)

RH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C609 Pin 6		C609 Pin 4

- Using a diagnostic scan tool, view BCM Parameter Identifications (PIDs).
- Monitor the BCM DOOR_SW_DRVR and DOOR_SW_PSGR Parameter Identifications (PIDs).

Does the PID indicate the door in question is closed?

Yes	REMOVE the fused jumper wire. INSTALL a new front door latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
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No	REMOVE the fused jumper wire. GO to D3
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D3 BYPASS THE DOOR LATCH GROUND CIRCUIT

- Connect a fused jumper wire:


[Click to display connectors](#)

LH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C525 Pin 3		Ground

[Click to display connectors](#)

RH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C609 Pin 6		Ground

- Monitor the [BCM](#) DOOR_SW_DRVR and DOOR_SW_PSGR Parameter Identifications (PIDs).

Does the PID indicate the door in question is closed?

Yes	REMOVE the fused jumper wire. For vehicles without a memory seat, REPAIR the circuit. For vehicles with a memory seat, GO to D5
No	REMOVE the fused jumper wire. GO to D4

D4 CHECK THE SUSPECT DOOR AJAR SWITCH INPUT CIRCUIT FOR AN OPEN

- Disconnect [BCM](#) [C2280E](#).
- Measure:

[Click to display connectors](#)

LH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C525 Pin 3	Ω	C2280E Pin 33

[Click to display connectors](#)

RH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C609 Pin 6	Ω	C2280E Pin 21

Is the resistance less than 3 ohms?

Yes	GO to D6
No	REPAIR the door ajar input circuit in question.

D5 CHECK THE DOOR LATCH RETURN CIRCUIT TO THE DOOR MODULE FOR AN OPEN

- Disconnect suspect door module.
- Connect a fused jumper wire:


[Click to display connectors](#)

LH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C501B Pin 12		Ground

[Click to display connectors](#)

RH Front Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C652B Pin 12		Ground

- Close the door.
- Monitor the [BCM](#) DOOR_SW_DRVR and DOOR_SW_PSGR Parameter Identifications (PIDs).




Does the PID indicate the door is closed?

Yes	REMOVE the fused jumper wire. For <u>LH</u> door, GO to D7 For <u>RH</u> door, GO to D8
No	REMOVE the fused jumper wire. REPAIR the door latch return circuit in question.

D6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all [BCM](#) connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the [BCM](#) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,    VIN required to access Guided Routine (BCM)
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

D7 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

- Disconnect and inspect all DDM connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the DDM connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK <u>OASIS</u> for any applicable service articles: <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new <u>DDM</u> . REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

D8 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect and inspect all PDM connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the PDM connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK <u>OASIS</u> for any applicable service articles: <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new <u>PDM</u> . REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

One Or More Demand Lamps Are Inoperative

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Demand lamp
- BCM

Visual Inspection and Diagnostic Pre-checks

- Inspect the bulbs and make sure they are OK.
- Inspect the interior lamps for damage.

PINPOINT TEST E: ONE OR MORE DEMAND LAMPS ARE INOPERATIVE

E1 CHECK THE DEMAND LAMP OPERATION

- Ignition ON.
- Check the operation of the LH vanity mirror, RH vanity mirror, overhead map, center console bin and glove box lamps.

Do any of the LH vanity mirror, RH vanity mirror, overhead map, center console bin or glove box lamps illuminate?

Yes	If a vanity mirror lamp is inoperative, GO to E6 If the glove compartment lamp is inoperative, GO to E8 If both overhead map lamps are inoperative, GO to E10 If a single overhead map lamp is inoperative, INSTALL a new map lamp bulb. If the lamp is still inoperative, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). If the center console bin lamp is inoperative, GO to E12
No	GO to E2

E2 CHECK FOR VOLTAGE TO THE PASSENGER OVERHEAD MAP LAMP

- Ignition OFF.
- Disconnect Overhead Console [C930](#).
- Ignition ON.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 3	\overline{V}	Ground

Is the voltage greater than 11 volts?

Yes	GO to E10
No	GO to E3

E3 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE PASSENGER OVERHEAD MAP LAMP

- Using a diagnostic scan tool, perform the [BCM](#) self-test.
- Clear the Diagnostic Trouble Codes (DTCs) and repeat the self-test (required to enable the lamp output driver if [DTC](#) U1000:00 is present).
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 3	\overline{V}	Ground

Is the voltage greater than 11 volts?

Yes	INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation).
No	GO to E4




E4 CHECK THE BCM (BODY CONTROL MODULE) DEMAND LAMP OUTPUT CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect BCM [C2280C](#).
- Disconnect Center Console Lock Assembly [C3463](#).
- Disconnect Glove Compartment Lamp [C254](#).
- Disconnect LH Vanity Mirror Lamp [C907](#) and RH Vanity Mirror Lamp [C906](#).
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C2280C Pin 14	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to E5
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If <u>DTC</u> U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if <u>DTC</u> U1000:00 is present). If <u>DTC</u> U3000:49 is present,    VIN required to access Guided Routine (BCM)

E5 CHECK THE BCM (BODY CONTROL MODULE) DEMAND LAMP OUTPUT CIRCUIT FOR AN OPEN

- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 3	Ω	C2280C Pin 14

Is the resistance less than 3 ohms?

Yes	GO to E14
No	REPAIR the circuit.

E6 CHECK THE VANITY MIRROR VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Inoperative LH Vanity Mirror Lamp [C907](#) or RH Vanity Mirror Lamp [C906](#).
- Ignition ON.
- Measure:


[Click to display connectors](#)

LH Vanity Mirror Lamp

Positive Lead	Measurement / Action	Negative Lead
C907 Pin 1	\overline{V}	Ground

[Click to display connectors](#)

RH Vanity Mirror Lamp

Positive Lead	Measurement / Action	Negative Lead
C906 Pin 1		Ground

Is the voltage greater than 11 volts?


Yes	GO to E7
No	REPAIR the circuit.

E7 CHECK THE VANITY MIRROR GROUND CIRCUIT FOR AN OPEN

• Measure:


[Click to display connectors](#)

LH Vanity Mirror Lamp

Positive Lead	Measurement / Action	Negative Lead
C907 Pin 1		C907 Pin 2

[Click to display connectors](#)

RH Vanity Mirror Lamp

Positive Lead	Measurement / Action	Negative Lead
C906 Pin 1		C906 Pin 2


Is the voltage greater than 11 volts?

Yes	INSTALL a new sun visor for the lamp in question.
No	REPAIR the circuit.

E8 CHECK THE GLOVE COMPARTMENT LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Glove Compartment Lamp [C254](#).
- Ignition ON.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C254 Pin 1		Ground


Is the voltage greater than 11 volts?

Yes	GO to E9
No	REPAIR the circuit.

E9 CHECK THE GLOVE COMPARTMENT LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C254 Pin 1		C254 Pin 2


Is the voltage greater than 11 volts?

Yes	INSTALL a new glove compartment lamp.
No	REPAIR the circuit.

E10 CHECK THE OVERHEAD INTERIOR LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Overhead Console [C930](#).
- Ignition ON.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 3		Ground


Is the voltage greater than 11 volts?

Yes	GO to E11
No	REPAIR the circuit.

E11 CHECK THE OVERHEAD INTERIOR LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C930 Pin 3		C930 Pin 5


Is the voltage greater than 11 volts?

Yes	INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation).
No	REPAIR the circuit.

E12 CHECK THE CENTER CONSOLE BIN LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Center Console Lock Assembly [C3463](#).
- Ignition ON.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C3463 Pin 2		Ground


Is the voltage greater than 11 volts?

Yes	GO to E13
No	REPAIR the circuit.

E13 CHECK THE CENTER CONSOLE BIN LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C3463 Pin 2		C3463 Pin 3




Is the voltage greater than 11 volts?

Yes	INSTALL a new center console bin lamp.
No	REPAIR the circuit.

E14 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all [BCM](#) connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the [BCM](#) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,    VIN required to access Guided Routine (BCM)
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

The Luggage Compartment Lamp Is Inoperative Or On Continuously

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Luggage compartment lid latch
- Luggage compartment lamp bulb

PINPOINT TEST F: THE LUGGAGE COMPARTMENT LAMP IS INOPERATIVE OR ON CONTINUOUSLY

F1 DETERMINE IF THE LAMP IS ON WITH THE LUGGAGE COMPARTMENT LID OPEN

- Ignition ON.
- Make sure the luggage compartment lid is fully open and observe the luggage compartment lamp.

Is the luggage compartment lamp illuminated?

Yes	GO to F2
No	GO to F3

F2 CHECK THE LUGGAGE COMPARTMENT LAMP GROUND CIRCUIT FOR A SHORT TO GROUND

- Disconnect Luggage Compartment Lid Latch [C4339](#).

Does the luggage compartment lamp continue to illuminate?

Yes	REPAIR the circuit.
No	<p>INSTALL a new luggage compartment lid latch.</p> <p>REFER to: Luggage Compartment Lid Latch - Coupe (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).</p> <p>REFER to: Luggage Compartment Lid Latch - Convertible (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).</p>

F3 CHECK THE OPERATION OF THE DEMAND LAMPS

- Ignition ON.
- Check the operation of the LH vanity mirror, RH vanity mirror, overhead map, center console bin and glove box lamps.


Does the interior demand lamps illuminate?

Yes	GO to F4
No	GO to Pinpoint Test E

F4 CHECK FOR VOLTAGE TO THE LUGGAGE COMPARTMENT LAMP

- Disconnect Luggage Compartment Lamp [C428](#).
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C428 Pin 1		Ground


Is the voltage greater than 11 volts?

Yes	GO to F5
No	REPAIR the luggage compartment lamp voltage supply circuit for an open.

F5 ISOLATE THE LUGGAGE COMPARTMENT LAMP BULB SOCKET

• Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C428 Pin 1		C428 Pin 3


Is the voltage greater than 11 volts?

Yes	INSTALL a new luggage compartment lamp bulb socket.
No	GO to F6

F6 CHECK THE LUGGAGE COMPARTMENT LAMP GROUND CIRCUIT FOR AN OPEN

- Ignition OFF.
- Connect Luggage Compartment Lamp [C428](#).
- Disconnect Luggage Compartment Lid Latch [C4339](#).
- Connect a fused jumper:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C4339 Pin 2		Ground


Does the luggage compartment lamp illuminate?

Yes	REMOVE the fused jumper wire. GO to F7
No	REMOVE the fused jumper wire. REPAIR the circuit.

F7 CHECK THE LUGGAGE COMPARTMENT LID LATCH GROUND CIRCUIT FOR AN OPEN

• Connect:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C4339 Pin 2		C4339 Pin 4

Does the luggage compartment lamp illuminate?

Yes	REMOVE the fused jumper wire. INSTALL a new luggage compartment lid latch. REFER to: Luggage Compartment Lid Latch - Coupe (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). REFER to: Luggage Compartment Lid Latch - Convertible (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	REMOVE the fused jumper wire. REPAIR the circuit.

The Battery Saver Does Not Deactivate After Time-out

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- [BCM](#)

PINPOINT TEST G: THE BATTERY SAVER DOES NOT DEACTIVATE AFTER TIME-OUT

G1 CHECK THE DEMAND LAMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect [BCM C2280C](#).
- Turn any demand lamp (map or vanity mirror) on.




Does the demand lamp turn on?

Yes	REPAIR the circuit.
No	GO to G2

G2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all [BCM](#) connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the [BCM](#) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,    VIN required to access Guided Routine (BCM)
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No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).
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The Ambient Lighting Is Inoperative

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- [IPC](#)
- [BCMB](#)

PINPOINT TEST H: THE AMBIENT LIGHTING IS INOPERATIVE

H1 CHECK THE IPC (INSTRUMENT PANEL CLUSTER) MESSAGE CENTER OPERATION

NOTE: Ambient lighting color and dim settings can only be changed during nighttime ambient lighting conditions.

- Ignition ON.
- Check the operation of other [IPC](#) message center settings.


Can other [IPC](#) message center settings be changed and saved?

Yes	GO to H2
No	REFER to: Instrumentation, Message Center and Warning Chimes (413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).

H2 CHECK THE AMBIENT LIGHTING LED (LIGHT EMITTING DIODE) RETURN CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect [BCMB C4368A](#).
- Disconnect [BCMB C4368B](#).
- Ignition ON.
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C4368A Pin 24		Ground

Is voltage present?

Yes	GO to H3
No	REPAIR the circuit.

H3 CHECK THE AMBIENT LIGHTING LED (LIGHT EMITTING DIODE) RETURN CIRCUIT FOR AN OPEN

- Ignition OFF.

- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C4368B Pin 9	→+	C4368A Pin 24

Does the meter indicate the circuit is good?

Yes	GO to H4
No	REPAIR the circuit.

H4 CHECK FOR CORRECT BCMB (BODY CONTROL MODULE B) OPERATION

- Disconnect and inspect all BCMB connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the BCMB connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new <u>BCMB</u> . REFER to: Body Control Module B (BCMB) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

The Ambient Lighting Does Not Cycle Through All Color Combinations

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B127B:11	Ambient Lighting Zone 1 Output Red LED: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects a short to ground from the zone 1 red ambient lighting output circuit
B127B:15	Ambient Lighting Zone 1 Output Red LED: Circuit Short To Battery or Open	An on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects an open or a short to voltage from the zone 1 red ambient lighting output circuit.

DTC	Description	Fault Trigger Conditions
B127D:11	Ambient Lighting Zone 3 Output Red LED: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects a short to ground from the zone 3 red ambient lighting output circuit
B127D:15	Ambient Lighting Zone 3 Output Red LED: Circuit Short To Battery or Open	An on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects an open or a short to voltage from the zone 3 red ambient lighting output circuit.
B127E:11	Ambient Lighting Zone 1 Output Green LED: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects a short to ground from the zone 1 green ambient lighting output circuit
B127E:15	Ambient Lighting Zone 1 Output Green LED: Circuit Short To Battery or Open	An on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects an open or a short to voltage from the zone 1 green ambient lighting output circuit.
B1280:11	Ambient Lighting Zone 3 Output Green LED: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects a short to ground from the zone 3 green ambient lighting output circuit
B1280:15	Ambient Lighting Zone 3 Output Green LED: Circuit Short To Battery or Open	An on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects an open or a short to voltage from the zone 3 green ambient lighting output circuit.
B1281:11	Ambient Lighting Zone 1 Output Blue LED: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects a short to ground from the zone 1 blue ambient lighting output circuit
B1281:15	Ambient Lighting Zone 1 Output Blue LED: Circuit Short To Battery or Open	An on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects an open or a short to voltage from the zone 1 blue ambient lighting output circuit.
B1283:11	Ambient Lighting Zone 3 Output Blue LED: Circuit Short To Ground	A continuous memory and on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects a short to ground from the zone 3 blue ambient lighting output circuit
B1283:15	Ambient Lighting Zone 3 Output Blue LED: Circuit Short To Battery or Open	An on-demand <u>DTC</u> that sets when the Body Control Module B (BCMB) module detects an open or a short to voltage from the zone 3 blue ambient lighting output circuit.
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This <u>DTC</u> sets when the Body Control Module B (BCMB) has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The Body Control Module B (BCMB) cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.
U3000:49	Control Module: Internal Electronic Failure	This <u>DTC</u> sets when the Body Control Module B (BCMB) has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the Body Control Module B (BCMB) can withstand. CORRECT the cause of the excessive current draw before installing a new Body Control Module B (BCMB).

Possible Sources

- Wiring, terminals or connectors
- Ambient lighting LED
- IPC
- BCMB

PINPOINT TEST I: THE AMBIENT LIGHTING DOES NOT CYCLE THROUGH ALL COLOR COMBINATIONS

I1 CHECK THE AMBIENT LIGHTING

NOTE: Ambient lighting color and dim settings can only be changed during nighttime ambient lighting conditions.

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS ON position.

- Observe the operation of all the ambient lighting Light Emitting Diodes (LEDs) while adjusting the color.

Are all ambient lighting Light Emitting Diodes (LEDs) effected?

Yes	GO to I2
No	If only the IPC is effected, GO to I5 For all other ambient lighting Light Emitting Diodes (LEDs), GO to I4

I2 CHECK THE COMMUNICATION NETWORK

- Using a diagnostic scan tool, perform a network test.

Does the [IPC](#) and [BCMB](#) pass the network test?

Yes	GO to I3
No	DIAGNOSE no communication with the module. REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).

I3 CHECK THE BCMB (BODY CONTROL MODULE B) CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)

- Using a diagnostic scan tool, check the [BCMB](#) Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Is DTC U0155:87 present?

Yes	REFER to: Body Control Module B (BCMB) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).
No	GO to I6

I4 CHECK THE AMBIENT LIGHTING COLOR OUTPUT CIRCUITS

- Ignition OFF.
- Disconnect [BCMB C4368A](#).
- Disconnect [BCMB C4368B](#).
- For front footwell, interior door release handle and cup holder Light Emitting Diodes (LEDs), measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C4368B Pin 11	→⊕	C4368A Pin 24
C4368B Pin 12	→⊕	C4368A Pin 24
C4368B Pin 13	→⊕	C4368A Pin 24

- For scuff plate trim panel Light Emitting Diodes (LEDs), measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C4368B Pin 9	→⊕	C4368A Pin 24
C4368B Pin 10	→⊕	C4368A Pin 24
C4368B Pin 23	→⊕	C4368A Pin 24




Does the meter indicate the circuit is good?

Yes	GO to I6
No	REPAIR the <u>LED</u> voltage supply circuit in question.

15 CHECK FOR CORRECT IPC (INSTRUMENT PANEL CLUSTER) OPERATION

- Disconnect and inspect the IPC connector.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the IPC connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK <u>OASIS</u> for any applicable service articles: <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,    VIN required to access Guided Routine (IPC)
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

16 CHECK FOR CORRECT BCMB (BODY CONTROL MODULE B) OPERATION

- Disconnect and inspect all BCMB connectors.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the BCMB connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK <u>OASIS</u> for any applicable service articles: <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new <u>BCMB</u> . REFER to: Body Control Module B (BCMB) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).

An Individual Ambient Lighting LED Is Inoperative/Does Not Cycle Through All Color Combinations

Refer to Wiring Diagrams Cell [89](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Interior Lighting - System Operation and Component Description](#) (417-02 Interior Lighting, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Ambient lighting [LED](#)
- [IPC](#)
- [BCMB](#)

PINPOINT TEST J: AN INDIVIDUAL AMBIENT LIGHTING LED (LIGHT EMITTING DIODE) IS INOPERATIVE/DOES NOT CYCLE THROUGH ALL COLOR COMBINATIONS

J1 CHECK THE AMBIENT LIGHTING

NOTE: Ambient lighting color and dim settings can only be changed during nighttime ambient lighting conditions.

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS ON position.
- Observe the operation of all the ambient lighting Light Emitting Diodes (LEDs).

Is only a scuff plate trim panel ambient lighting [LED](#) effected?

Yes	GO to J2
No	For an interior door release handle ambient lighting LED , GO to J3 For a footwell ambient lighting LED , GO to J4 For the center console cup holder ambient lighting LED , GO to J5 For the IPC ambient lighting LED , GO to J6

J2 CHECK THE SCUFF PLATE TRIM PANEL LIGHTING COLOR SUPPLY CIRCUITS

- Ignition OFF.
- Disconnect [LH](#) Scuff Plate Lamp [C3369](#) or [RH](#) Scuff Plate Lamp [C3370](#).
- Disconnect [BCMB](#) [C4368A](#).
- Disconnect [BCMB](#) [C4368B](#).
- For the [LH](#) scuff plate lamp, measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C3369 Pin 3	Ω	C4368B Pin 9
C3369 Pin 2	Ω	C4368B Pin 10
C3369 Pin 1	Ω	C4368B Pin 23
C3369 Pin 4	Ω	C4368A Pin 24

- For the [RH](#) scuff plate lamp, measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C3370 Pin 3	Ω	C4368B Pin 9
C3370 Pin 2	Ω	C4368B Pin 10
C3370 Pin 1	Ω	C4368B Pin 23
C3370 Pin 4	Ω	C4368A Pin 24

Is the resistance less than 3 ohms?

Yes	INSTALL a new ambient lighting LED .
No	REPAIR the LED voltage supply circuit in question.

J3 CHECK THE INTERIOR DOOR RELEASE HANDLE LIGHTING COLOR SUPPLY CIRCUITS

- Ignition OFF.
- Disconnect LH Interior Door Release Handle Ambient Lighting Lamp [C573](#) or RH Interior Door Release Handle Ambient Lighting Lamp [C649](#).
- Disconnect BCMB [C4368A](#).
- Disconnect BCMB [C4368B](#).
- For the LH interior door release handle ambient lighting lamp, measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C573 Pin 1	Ω	C4368B Pin 11
C573 Pin 3	Ω	C4368B Pin 12
C573 Pin 5	Ω	C4368B Pin 13
C573 Pin 4	Ω	C4368A Pin 24

- For the RH interior door release handle ambient lighting lamp, measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C649 Pin 1	Ω	C4368B Pin 11
C649 Pin 3	Ω	C4368B Pin 12
C649 Pin 5	Ω	C4368B Pin 13
C649 Pin 4	Ω	C4368A Pin 24

Is the resistance less than 3 ohms?

Yes	INSTALL a new ambient lighting <u>LED</u> .
No	REPAIR the <u>LED</u> voltage supply circuit in question.

J4 CHECK THE FOOTWELL LIGHTING COLOR SUPPLY CIRCUITS

- Ignition OFF.
- Disconnect LH Footwell Lamp [C209](#) or RH Footwell Lamp [C266](#).
- Disconnect BCMB [C4368A](#).
- Disconnect BCMB [C4368B](#).
- For the LH footwell lamp, measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C209 Pin 1	Ω	C4368B Pin 11
C209 Pin 2	Ω	C4368B Pin 12
C209 Pin 3	Ω	C4368B Pin 13
C209 Pin 4	Ω	C4368A Pin 24

- For the RH footwell lamp, measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C266 Pin 1	Ω	C4368B Pin 11
C266 Pin 2	Ω	C4368B Pin 12
C266 Pin 3	Ω	C4368B Pin 13
C266 Pin 4	Ω	C4368A Pin 24

Is the resistance less than 3 ohms?

Yes	INSTALL a new ambient lighting <u>LED</u> .
No	REPAIR the <u>LED</u> voltage supply circuit in question.

J5 CHECK THE CENTER CONSOLE CUP HOLDER LIGHTING COLOR SUPPLY CIRCUITS

- Ignition OFF.
- Disconnect Center Console Cup Holder Ambient Lighting Lamp [C3349](#).
- Disconnect BCMB [C4368A](#).
- Disconnect BCMB [C4368B](#).
- Measure:

[Click to display connectors](#)

Positive Lead	Measurement / Action	Negative Lead
C3349 Pin 1	Ω	C4368B Pin 11
C3349 Pin 2	Ω	C4368B Pin 12
C3349 Pin 3	Ω	C4368B Pin 13
C3349 Pin 4	Ω	C4368A Pin 24

Is the resistance less than 3 ohms?

Yes	INSTALL a new ambient lighting <u>LED</u> .
No	REPAIR the <u>LED</u> voltage supply circuit in question.

J6 CHECK FOR CORRECT IPC (INSTRUMENT PANEL CLUSTER) OPERATION

- Disconnect and inspect the IPC connector.
- Repair:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Reconnect the IPC connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK <u>OASIS</u> for any applicable service articles: <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles
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address this concern,



VIN required to access Guided Routine (IPC)

No

The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).