

DTC	Description	Action <i>New: hover over Pinpoint Test links to show title</i>
B1166:15	Right Front Puddle Lamp Output: Circuit Short To Battery Or Open	GO to Pinpoint Test G
For other PDM Diagnostic Trouble Codes (DTCs)	-	REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).

DTC Chart: RGTM (Rear Gate Trunk Module)

DTC	Description	Action <i>New: hover over Pinpoint Test links to show title</i>
B1306:11	Liftgate Ajar Switch: Circuit Short To Ground	GO to Pinpoint Test J
B1306:12	Liftgate Ajar Switch: Circuit Short To Battery	GO to Pinpoint Test C
For other RGTM Diagnostic Trouble Codes (DTCs)	-	REFER to: Body Closures (501-03 Body Closures, 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

Condition	Possible Sources	Actions
A module does not respond to the scan tool	- 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 more interior courtesy lamps are inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test B
The courtesy lamps do not illuminate with the liftgate open	Refer to the Pinpoint Test	GO to Pinpoint Test J
A puddle lamp is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test G
All the courtesy lamps stay on continuously	Refer to the Pinpoint Test	GO to Pinpoint Test C
The interior 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 battery saver does not deactivate after time-out	Refer to the Pinpoint Test	GO to Pinpoint Test F
The ambient lighting is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test H

Condition	Possible Sources	Actions
One or more of the ambient lighting Light Emitting Diodes (LEDs) are inoperative or do not change color/intensity	Refer to the Pinpoint Test	GO to Pinpoint Test I

Pinpoint Tests

[PINPOINT TEST A : 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 Condition
BCM B1175:01	Drivers Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the LH front door ajar circuit.
BCM B1176:01	Passenger Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the RH front door ajar circuit.
BCM B11C0:01	Driver Side Rear Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the LH rear door ajar circuit.
BCM B11C1:01	Passenger Side Rear Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the RH rear door ajar circuit.

Possible Sources

- Wiring, terminals or connectors
- Door latch
- BCM

NOTE: Make sure the dark car feature is not enabled in the BCM. The dark car feature disables activation of courtesy lamps due to a door unlock, door ajar or removing the key from the ignition cylinder. The feature can be disabled using a scan tool.

A1 CHECK THE OPERATION OF THE COURTESY LAMP FUNCTION FROM THE FRONT/DRIVER INTERIOR LAMP

- Ignition OFF.
- Use the courtesy lamp switch on the front interior lamp to activate the overhead courtesy lamps.

Do the overhead courtesy lamps illuminate?

Yes	GO to A2
No	GO to Pinpoint Test B

A2 CHECK THE DOOR AJAR SWITCH OPERATION

- Deactivate the overhead courtesy lamps from the front interior lamp.
- Disconnect suspect door latch.

Do the courtesy lamps illuminate?

Yes	For a front door, INSTALL a new front door latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). For a rear door, INSTALL a new rear door latch. REFER to: Rear Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to A3

A3 CHECK THE DOOR AJAR SWITCH INPUT CIRCUIT FOR A SHORT TO GROUND

- Disconnect BCM [C2280D](#).
- Measure:

DRIVER DOOR LATCH	
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Driver Front Door Ajar Switch - LHD

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

	
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Driver Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C603-6	Ω	Ground

PASSENGER DOOR LATCH	
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Passenger Front Door Ajar Switch - LHD

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

	
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Passenger Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C502-3	Ω	Ground

REAR DOOR LATCH LH	
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LH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C705-3	Ω	Ground

REAR DOOR LATCH RH	
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RH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C805-6	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to A4
No	REPAIR the circuit.

- Disconnect and inspect all BCM connectors and related in-line 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 and related in-line 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, Click here 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).

PINPOINT TEST B : ONE OR MORE INTERIOR COURTESY 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).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BCM B12C2:11	Puddle Lamp: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the scuff plate lighting output circuit.
BCM B12C2:15	Puddle Lamp: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the scuff plate lighting output circuit.
BCM B1313:11	Interior Lighting Output: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the interior lighting output circuit.
BCM B1313:15	Interior Lighting Output: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the interior lighting output circuit.
BCM U1000:00	Solid State Driver Protection Active - Driver Disabled: No Sub Type Information	This DTC sets when the BCM 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 BCM 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.
BCM U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM 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 BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.

Possible Sources

- Wiring, terminals or connectors
- Interior lamp
- BCM

NOTE: Make sure the dark car feature is not enabled in the BCM. The dark car feature disables activation of courtesy lamps due to a door unlock, door ajar or removing the key from the ignition cylinder. The feature can be disabled using a scan tool.

B1 CHECK THE OPERATION OF ALL THE INTERIOR COURTESY LAMPS

- Open a door and observe the interior courtesy lamps.

Are all the interior courtesy lamps inoperative?

Yes	GO to B8
No	If only the luggage compartment lamp is inoperative, GO to B2 If only the one of the illuminated scuff plates are inoperative, GO to B4 If or both of the illuminated scuff plates are inoperative, GO to B6 If both the front and rear interior lamp(s) and also the luggage compartment lamp are inoperative, GO to B8 If only the front interior lamp is inoperative, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For vehicles without a vista roof, if the rear interior lamp is inoperative, GO to B13 For vehicles with a vista roof, if both rear interior lamps are inoperative, GO to B15

B2 CHECK FOR VOLTAGE TO THE LUGGAGE COMPARTMENT LAMP

- Close the door.
- Disconnect Luggage Compartment Lamp [C428](#) .
- Ignition ON.
- Open a door.
- Measure:

LUGGAGE COMPARTMENT LAMP	
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Positive Lead	Measurement / Action	Negative Lead
C428-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to B3
No	REPAIR the circuit.

B3 CHECK THE LUGGAGE COMPARTMENT LAMP GROUND CIRCUIT

- Measure:

LUGGAGE COMPARTMENT LAMP

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

Is the voltage greater than 11 volts?

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

B4 CHECK FOR VOLTAGE TO THE ILLUMINATED SCUFF PLATE

- Close the door.
- Disconnect Inoperative LH Scuff Plate Lamp [C3251](#) or RH Scuff Plate Lamp [C3250](#) .
- Ignition ON.
- Open a door.
- Measure:

SCUFF PLATE LAMP LH	
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LH Scuff Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C3251-1		Ground

SCUFF PLATE LAMP RH	
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RH Scuff Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C3250-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to B5
No	REPAIR the circuit.

B5 CHECK THE ILLUMINATED SCUFF PLATE GROUND CIRCUIT

- Measure:

SCUFF PLATE LAMP LH

LH Scuff Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C3251-1		C3251-3

SCUFF PLATE LAMP RH

RH Scuff Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C3250-1		C3250-3

Is the voltage greater than 11 volts?

Yes	INSTALL a new illuminated scuff plate.
No	REPAIR the circuit.

B6 CHECK THE ILLUMINATED SCUFF PLATE LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Close the door.
- Disconnect LH Scuff Plate Lamp [C3251](#) .
- Disconnect RH Scuff Plate Lamp [C3250](#) .
- Disconnect BCM [C2280F](#) .
- Measure:

SCUFF PLATE LAMP LH	BODY CONTROL MODULE (BCM)
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LH Scuff Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C3251-1	Ω	C2280F-26

Is the resistance less than 3 ohms?

Yes	GO to B7
No	REPAIR the circuit.

B7 CHECK THE ILLUMINATED SCUFF PLATE LAMP OUTPUT CIRCUIT FOR A SHORT TO GROUND

- Measure:

SCUFF PLATE LAMP LH	
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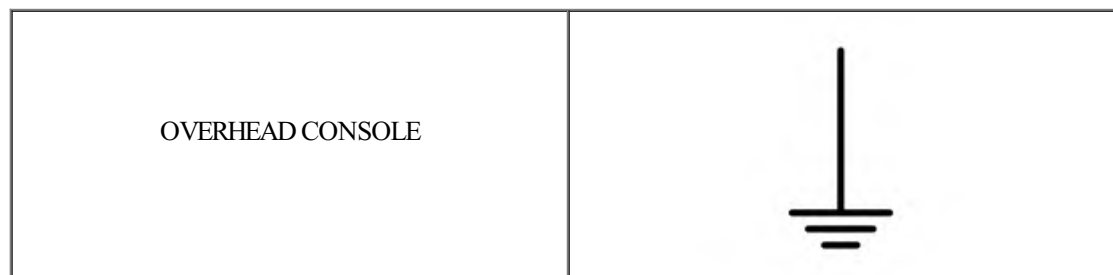
Positive Lead	Measurement / Action	Negative Lead
C3251-1	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to B18
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present, ☐ Click here to access Guided Routine (BCM) .

B8 CHECK FOR VOLTAGE TO THE FRONT COURTESY LAMP

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



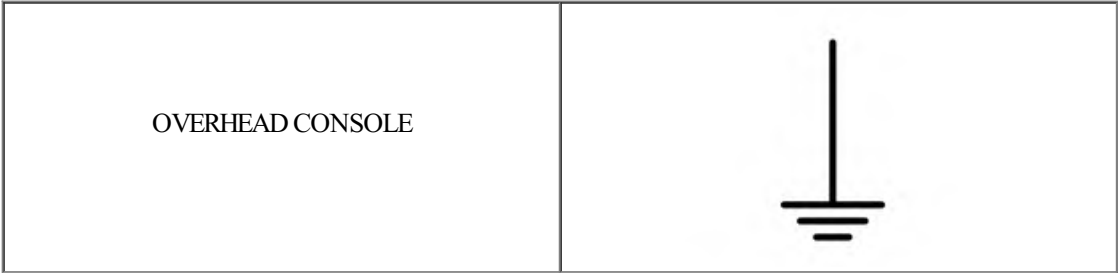
Positive Lead	Measurement / Action	Negative Lead
C930-11		Ground

Is the voltage greater than 11 volts?

Yes	GO to B12
No	GO to B9

B9 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE FRONT COURTESY 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:



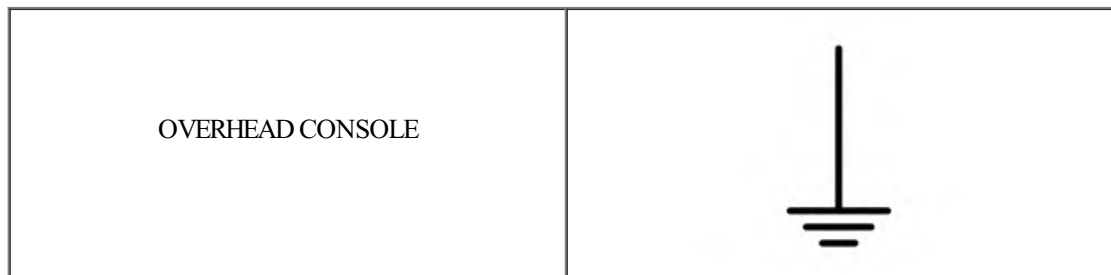
Positive Lead	Measurement / Action	Negative Lead
C930-11		Ground

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 B10

B10 CHECK THE BCM (BODY CONTROL MODULE) COURTESY LAMP OUTPUT CIRCUIT FOR A SHORT TO GROUND

- Disconnect BCM [C2280F](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C930-11	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to B11
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present, ☐ Click here to access Guided Routine (BCM) .

B11 CHECK THE BCM (BODY CONTROL MODULE) COURTESY LAMP OUTPUT CIRCUIT FOR AN OPEN

- Measure:

OVERHEAD CONSOLE	BODY CONTROL MODULE (BCM)
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Positive Lead	Measurement / Action	Negative Lead
C930-11	Ω	C2280F-13

Is the resistance less than 3 ohms?

Yes	GO to B18
No	REPAIR the circuit.

B12 CHECK THE FRONT COURTESY LAMP GROUND CIRCUIT

- Measure:

OVERHEAD CONSOLE

Positive Lead	Measurement / Action	Negative Lead
C930-11		C930-1

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.

B13 CHECK FOR VOLTAGE TO THE REAR COURTESY LAMP

- Close the door.
- Disconnect For vehicles without vista roof, Rear Interior Lamp [C901](#) .

- Disconnect For vehicles with vista roof, LH Rear Interior Lamp [C963](#) or RH Rear Interior Lamp [C964](#) .
- Ignition ON.
- Measure:

SECOND ROW INTERIOR LAMP	
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Rear Interior Lamp, Vehicles Without Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C901-1		Ground

REAR INTERIOR LAMP LH	
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LH Rear Interior Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C963-1		Ground

REAR INTERIOR LAMP RH	
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RH Rear Interior Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C964-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to B14
No	REPAIR the circuit.

B14 CHECK THE REAR COURTESY LAMP GROUND CIRCUIT

- Measure:

SECOND ROW INTERIOR LAMP

Rear Interior Lamp, Vehicles Without Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C901-1		C901-5

REAR INTERIOR LAMP LH

LH Rear Interior Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C963-1		C963-3

REAR INTERIOR LAMP RH

RH Rear Interior Lamp, Vehicles With Vista Roof

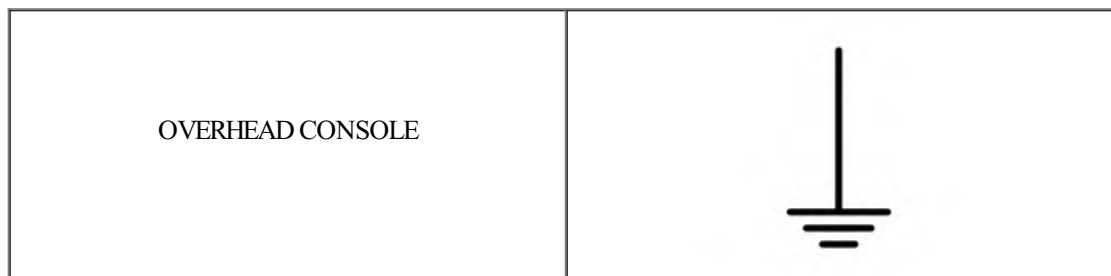
Positive Lead	Measurement / Action	Negative Lead
C964-1		C964-3

B15 CHECK THE REAR LAMP CONTROL CIRCUIT FOR A SHORT TO VOLTAGE

Is the voltage greater than 11 volts?

Yes	GO to B15
No	REPAIR the circuit.

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



Positive Lead	Measurement / Action	Negative Lead
C930-5		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to B16

B16 CHECK THE REAR LAMP CONTROL CIRCUIT FOR AN OPEN

- Measure:



Rear Interior Lamp, Vehicles Without Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C901-6	Ω	C930-5

REAR INTERIOR LAMP LH	OVERHEAD CONSOLE
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LH Rear Interior Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C963-2	Ω	C930-5

REAR INTERIOR LAMP RH	OVERHEAD CONSOLE
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RH Rear Interior Lamp, Vehicles With Vista Roof

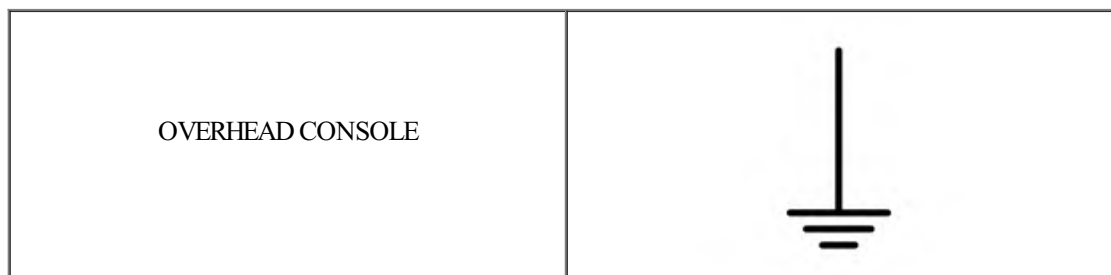
Positive Lead	Measurement / Action	Negative Lead
C964-2	Ω	C930-5

Is the resistance less than 3 ohms?

Yes	GO to B17
No	REPAIR the circuit.

B17 CHECK THE REAR LAMP CONTROL CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C930-5	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	For vehicles not equipped with vista roof, INSTALL a new rear interior lamp. If the condition is still present, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For vehicles equipped with vista roof, if both rear interior lamps are inoperative, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For vehicles equipped with vista roof, if only one rear interior lamp is inoperative, INSTALL a new rear interior lamp.
No	REPAIR the circuit.

B18 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line 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 and related in-line 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, Click here 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).

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 Condition
BCM B1175:01	Drivers Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the LH front door ajar circuit.
BCM B1176:01	Passenger Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the RH front door ajar circuit.
BCM B11C0:01	Driver Side Rear Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the LH rear door ajar circuit.
BCM B11C1:01	Passenger Side Rear Door Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the RH rear door ajar circuit.
BCM B1306:01	Liftgate Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the liftgate ajar circuit.
RGTM B1306:12	Liftgate Ajar Switch: Circuit Short To Battery	A continuous memory and on-demand DTC that sets when the RGTM detects a short to voltage on the liftgate ajar output circuit.

Possible Sources

- Wiring, terminals or connectors
- Ajar switch
- RGTM
- DDM
- PDM
- BCM

C1 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, DOOR_SW_PSGR, DOOR_SW_LR, DOOR_SW_RR and DOOR_SW_LUGG Parameter Identifications (PIDs) while opening and closing all the doors and liftgate.

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

Yes	For the interior courtesy lamps, GO to Pinpoint Test D For the puddle lamps, GO to Pinpoint Test G
No	GO to C2

C2 BYPASS THE SUSPECT DOOR LATCH

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

DRIVER DOOR LATCH

Driver Front Door Ajar Switch - LHD

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

Driver Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C603-6		C603-4

PASSENGER DOOR LATCH

Passenger Front Door Ajar Switch - LHD

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

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Passenger Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C502-3		C502-5

REAR DOOR LATCH LH

LH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C705-3		C705-5

REAR DOOR LATCH RH

RH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C805-6		C805-4

LIFTGATE/LUGGAGE COMPARTMENT LID LATCH

Liftgate Ajar Switch (without power liftgate)

Positive Lead	Measurement / Action	Negative Lead
C4223B-1		C4223B-5

REAR GATE TRUNK MODULE (RGTM)

Liftgate Ajar Switch (with power liftgate)

Positive Lead	Measurement / Action	Negative Lead
C4174A-21		C4174A-14

- Using a diagnostic scan tool, view BCM Parameter Identifications (PIDs).
- Monitor the BCM DOOR_SW_DRV, DOOR_SW_PSG, DOOR_SW_LR, DOOR_SW_RR and DOOR_SW_LUGG Parameter Identifications (PIDs).

Does the PID indicate the liftgate or door in question is closed?

Yes	REMOVE the fused jumper wire. For a front door, INSTALL a new front door latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). For a rear door, INSTALL a new rear door latch. REFER to: Rear Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). For the manual liftgate, INSTALL a new manual liftgate latch. REFER to: Liftgate Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). For the power liftgate, GO to C7
No	REMOVE the fused jumper wire. For the power liftgate, GO to C4 For all others, GO to C3

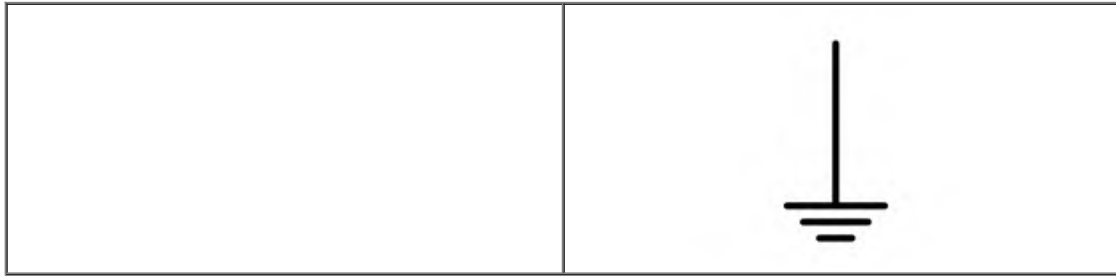
C3 BYPASS THE DOOR LATCH GROUND CIRCUIT

- Connect a fused jumper wire:



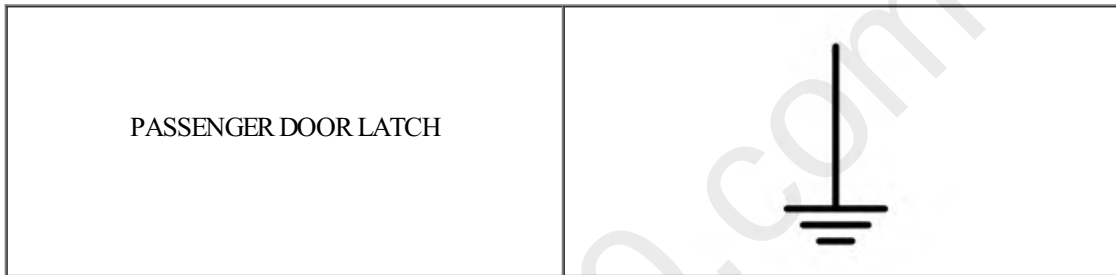
Driver Front Door Ajar Switch - LHD

Positive Lead	Measurement / Action	Negative Lead
C525-3		Ground



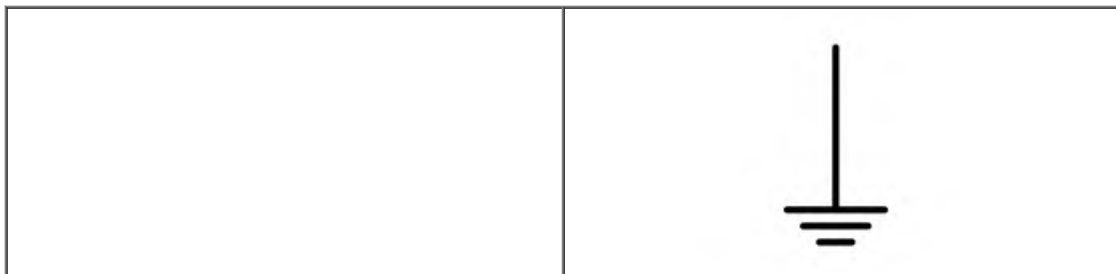
Driver Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C603-6		Ground

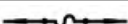


Passenger Front Door Ajar Switch - LHD

Positive Lead	Measurement / Action	Negative Lead
C609-6		Ground



Passenger Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C502-3		Ground

REAR DOOR LATCH LH	
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LH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C705-3		Ground

REAR DOOR LATCH RH	
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RH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C805-6		Ground

LIFTGATE/LUGGAGE COMPARTMENT LID LATCH	
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Liftgate Ajar Switch (without power liftgate)

Positive Lead	Measurement / Action	Negative Lead
C4223B-1		Ground

- Monitor the BCM DOOR_SW_DRV, DOOR_SW_PSGR, DOOR_SW_LR, DOOR_SW_RR and DOOR_SW_LUGG Parameter Identifications (PIDs).

Does the PID indicate the liftgate or door in question is closed?

Yes	REMOVE the fused jumper wire.
C4 CHECK THE SUSPECT DOOR AJAR SWITCH INPUT CIRCUIT FOR AN OPEN	
For the rear doors and liftgate, REPAIR the ground circuit for an open. For the front doors, GO to C5	
Disconnect BCM C2280D .	
No	REMOVE the fused jumper wire. GO to C4

- Measure:

DRIVER DOOR LATCH	BODY CONTROL MODULE (BCM)
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Driver Front Door Ajar Switch - LHD

Positive Lead	Measurement / Action	Negative Lead
C525-3	Ω	C2280D-33

	BODY CONTROL MODULE (BCM)
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Driver Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C603-6	Ω	C2280D-21

PASSENGER DOOR LATCH	BODY CONTROL MODULE (BCM)
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Passenger Front Door Ajar Switch - LHD

Positive Lead	Measurement / Action	Negative Lead
C609-6	Ω	C2280D-21

	BODY CONTROL MODULE (BCM)
--	---------------------------

Passenger Front Door Ajar Switch - RHD

Positive Lead	Measurement / Action	Negative Lead
C502-3	Ω	C2280D-33

REAR DOOR LATCH LH	BODY CONTROL MODULE (BCM)
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LH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C705-3	Ω	C2280D-46

REAR DOOR LATCH RH	BODY CONTROL MODULE (BCM)
--------------------	---------------------------

RH Rear Door Ajar Switch

Positive Lead	Measurement / Action	Negative Lead
C805-6	Ω	C2280D-19

LIFTGATE/LUGGAGE COMPARTMENT LID LATCH	BODY CONTROL MODULE (BCM)
---	---------------------------

Liftgate Ajar Switch (without power liftgate)

Positive Lead	Measurement / Action	Negative Lead
C4223B-1	Ω	C2280D-34

REAR GATE TRUNK MODULE (RGTM)

BODY CONTROL MODULE (BCM)

Liftgate Ajar Switch (with power liftgate)

Positive Lead	Measurement / Action	Negative Lead
C4174A-21	Ω	C2280D-34

Is the resistance less than 3 ohms?

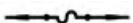
Yes	GO to C10
No	REPAIR the door ajar input circuit in question.

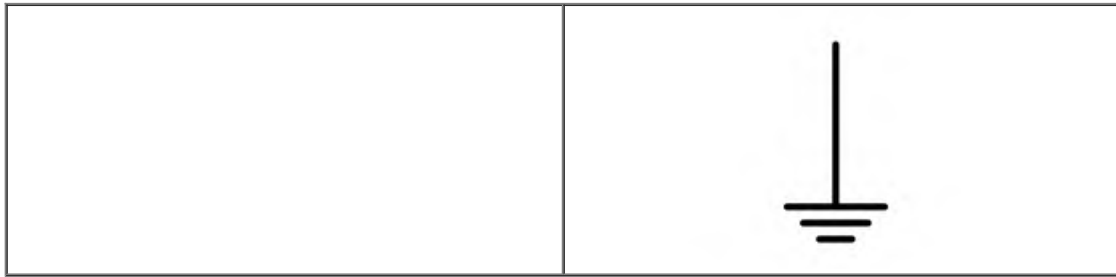
C5 CHECK THE DOOR LATCH RETURN CIRCUIT TO THE DOOR MODULE FOR AN OPEN

- Ignition OFF.
- Connect Suspect door latch.
- Disconnect Suspect door module.
- Ignition ON.
- Connect a fused jumper wire:

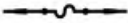
DRIVER DOOR MODULE (DDM)	
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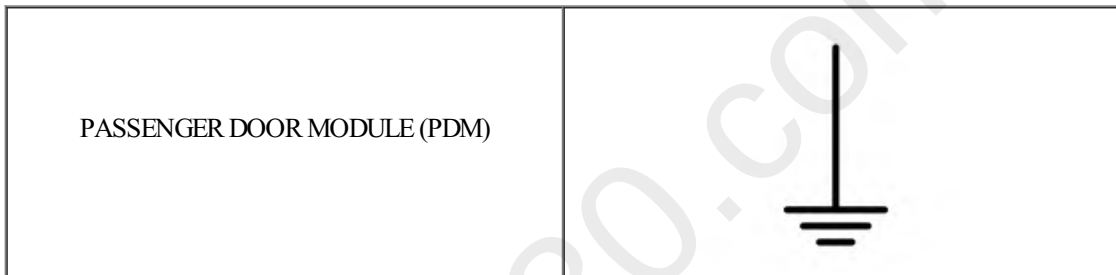
DDM - LHD

Positive Lead	Measurement / Action	Negative Lead
C501B-12		Ground



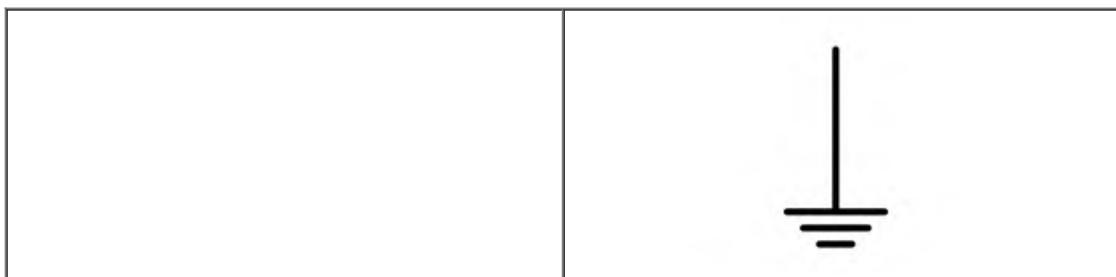
DDM - RHD

Positive Lead	Measurement / Action	Negative Lead
C653B-12		Ground



PDM - LHD

Positive Lead	Measurement / Action	Negative Lead
C652B-12		Ground



PDM - RHD

Positive Lead	Measurement / Action	Negative Lead
C590B-12		Ground

- Close the door.
- Monitor the BCM DOOR_SW_DRV and DOOR_SW_PSGR Parameter Identifications (PIDs).

Does the PID indicate the door is closed?

Yes	REMOVE the fused jumper wire. GO to C6
No	REMOVE the fused jumper wire. REPAIR the door latch return circuit in question.

C6 CHECK THE DOOR MODULE GROUND CIRCUIT FOR AN OPEN

- Connect a fused jumper wire:

DRIVER DOOR MODULE (DDM)	DRIVER DOOR MODULE (DDM)
--------------------------	--------------------------

DDM - LHD

Positive Lead	Measurement / Action	Negative Lead
C501B-12		C501A-2

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DDM - RHD

Positive Lead	Measurement / Action	Negative Lead
C653B-12		C653A-2

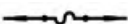
PASSENGER DOOR MODULE (PDM)	PASSENGER DOOR MODULE (PDM)
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PDM - LHD

Positive Lead	Measurement / Action	Negative Lead
C652B-12		C652A-2

--	--

PDM - RHD

Positive Lead	Measurement / Action	Negative Lead
C590B-12		C590A-2

- 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 a front driver door, GO to C8 For a front passenger door, GO to C9
No	REMOVE the fused jumper wire. REPAIR the circuit.

C7 CHECK FOR CORRECT RGTM (REAR GATE TRUNK MODULE) OPERATION

- Disconnect and inspect all RGTM connectors and related in-line 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 RGTM connectors and related in-line 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 RGTM. REFER to: Rear Gate Trunk Module (RGTM) (501-03 Body Closures, 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).

C8 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

- Disconnect and inspect all DDM connectors and related in-line 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 and related in-line 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 DDM. 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).

C9 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect and inspect all PDM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect the PDM connectors and related in-line 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 PDM. 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).

C10 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect the BCM connectors and related in-line 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, Click here 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).

PINPOINT TEST D : 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 Condition
BCM B1313:15	Interior Lighting Output: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the interior lighting output circuit.
BCM B12C2:15	Puddle Lamp: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the illuminated scuff plate output circuit.

Possible Sources

- Wiring terminals or connectors
- Interior lamp
- BCM

D1 CHECK THE DOOR AJAR SWITCH PARAMETER IDENTIFICATIONS (PIDS)

- Ignition ON.
- Using a scan tool, monitor the BCM Parameter Identifications (PIDs).
- Monitor the BCM DOOR_SW_DRVR, DOOR_SW_PSGR, DOOR_SW_LR, DOOR_SW_RR and DOOR_SW_LUGG Parameter Identifications (PIDs) while opening and closing all the doors and liftgate.

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

Yes	GO to D2
No	GO to Pinpoint Test C

D2 ISOLATE THE BCM (BODY CONTROL MODULE)

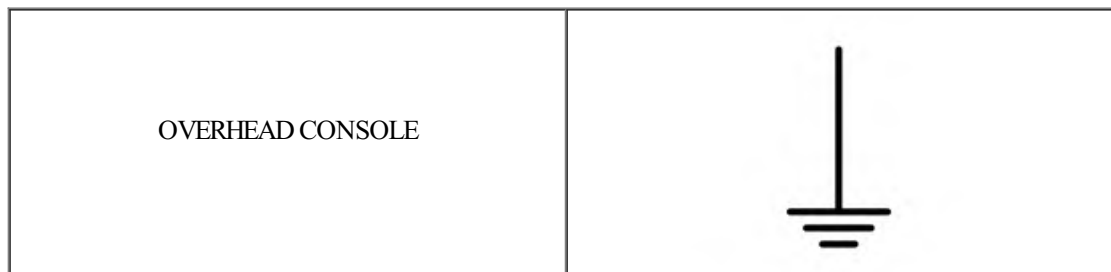
- Ignition OFF.
- Disconnect BCM [C2280F](#).
- Ignition ON.

Do the interior courtesy lamps continue to illuminate?

Yes	For luggage compartment and overhead lamps, REPAIR the circuit for a short to voltage. For front overhead lamp only, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For rear overhead lamp(s) only, GO to D3 For illuminated front scuff plates only, REPAIR the circuit for a short to voltage.
No	GO to D6

D3 CHECK THE REAR LAMP CONTROL CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect Overhead Console [C930](#) .
- Disconnect For vehicles without vista roof, Rear Interior Lamp [C901](#) .
- Disconnect For vehicles with vista roof, LH Rear Interior Lamp [C963](#) and RH Rear Interior Lamp [C964](#) .
- Ignition ON.
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C930-5		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to D4

D4 CHECK THE REAR LAMP CONTROL CIRCUIT FOR AN OPEN

- Measure:



Rear Interior Lamp, Vehicles Without Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C901-6	Ω	C930-5

REAR INTERIOR LAMP LH	OVERHEAD CONSOLE
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LH Rear Interior Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C963-2	Ω	C930-5

REAR INTERIOR LAMP RH	OVERHEAD CONSOLE
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RH Rear Interior Lamp, Vehicles With Vista Roof

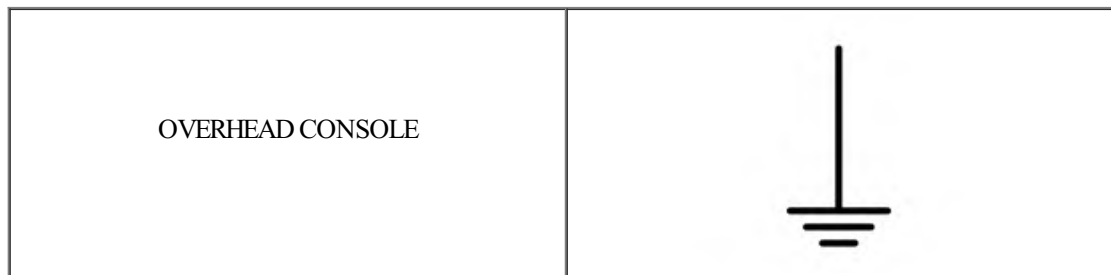
Positive Lead	Measurement / Action	Negative Lead
C964-2	Ω	C930-5

Is the resistance less than 3 ohms?

Yes	GO to D5
No	REPAIR the circuit.

D5 CHECK THE REAR LAMP CONTROL CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C930-5	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	For vehicles not equipped with vista roof, INSTALL a new rear interior lamp. If the condition is still present, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For vehicles equipped with vista roof, if both rear interior lamps are inoperative, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For vehicles equipped with vista roof, if only one rear interior lamp is inoperative, INSTALL a new rear interior lamp.
No	REPAIR the circuit.

D6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line 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 and related in-line 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, Click here 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).

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 Condition
BCM B14AA:11	Demand Lamp Output: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the demand lighting output circuit.
BCM B14AA:15	Demand Lamp Output: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the demand lighting output circuit.
BCM U1000:00	Solid State Driver Protection Active - Driver Disabled: No Sub Type Information	This DTC sets when the BCM 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 BCM 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.
BCM U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM 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 BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.

Possible Sources

- Wiring, terminals or connectors
- Demand lamp
- BCM

Visual Inspection and Pre-checks

- Inspect the interior lamps for damage.

E1 CHECK THE DEMAND LAMP OPERATION

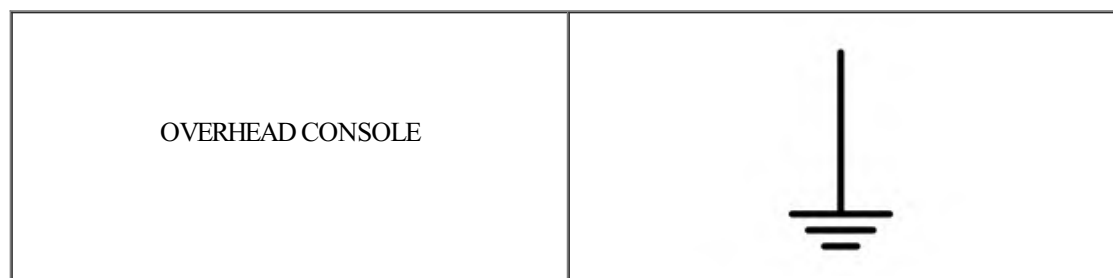
- Ignition ON.
- Check the operation of the LH vanity mirror, RH vanity mirror, overhead map and glove box lamps.

Do any of the LH vanity mirror, RH vanity mirror, overhead map 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 an overhead map lamp is inoperative, GO to E10
No	GO to E2

E2 CHECK FOR VOLTAGE TO THE OVERHEAD INTERIOR LAMP

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



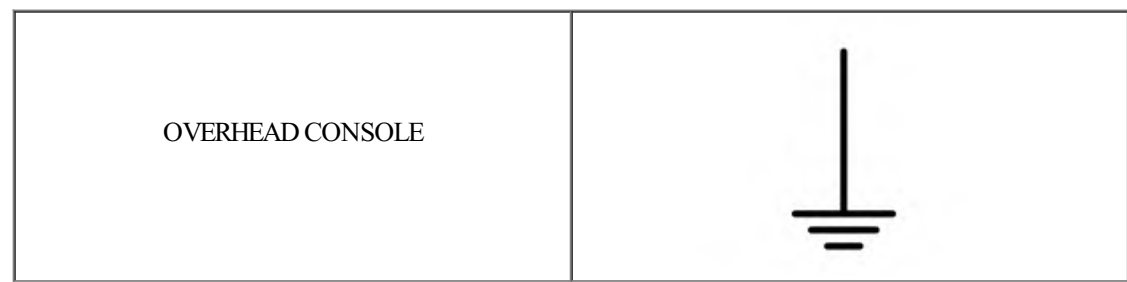
Positive Lead	Measurement / Action	Negative Lead
C930-12		Ground

Is the voltage greater than 11 volts?

Yes	GO to E11
No	GO to E3

E3 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE OVERHEAD INTERIOR 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:



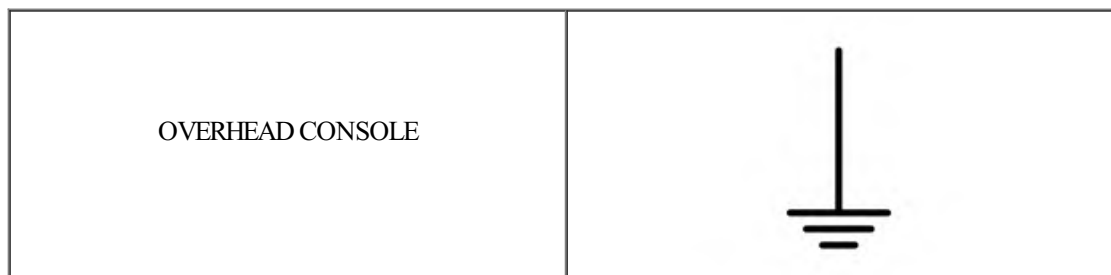
Positive Lead	Measurement / Action	Negative Lead
C930-12		Ground

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 [C2280F](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C930-12	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 DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present, ☐ Click here to access Guided Routine (BCM) .

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

- Measure:

OVERHEAD CONSOLE	BODY CONTROL MODULE (BCM)
------------------	---------------------------

Positive Lead	Measurement / Action	Negative Lead
C930-12	Ω	C2280F-14

Is the resistance less than 3 ohms?

Yes	GO to E12
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:

VANITY MIRROR LAMP LH	
-----------------------	--

LH Vanity Mirror Lamp

Positive Lead	Measurement / Action	Negative Lead
C907-1		Ground

VANITY MIRROR LAMP RH	
-----------------------	--

RH Vanity Mirror Lamp

Positive Lead	Measurement / Action	Negative Lead
C906-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to E7
No	REPAIR the circuit.

- Measure:

VANITY MIRROR LAMP LH

LH Vanity Mirror Lamp

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

VANITY MIRROR LAMP RH

RH Vanity Mirror Lamp

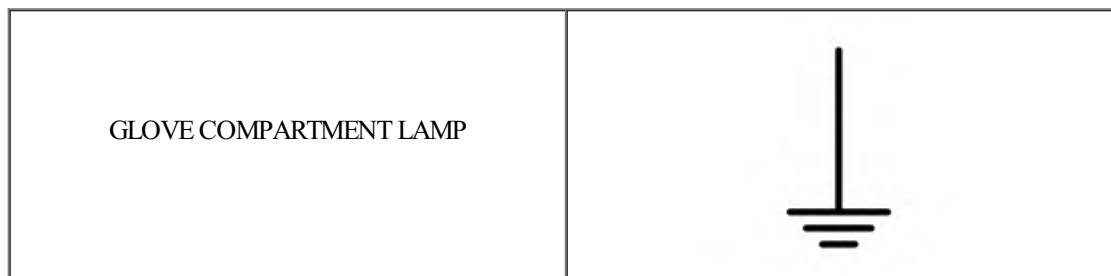
Positive Lead	Measurement / Action	Negative Lead
C906-1		C906-2

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:



Positive Lead	Measurement / Action	Negative Lead
C254-1		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:

GLOVE COMPARTMENT LAMP

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

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 Inoperative Overhead Console [C930](#) .
- Disconnect For vehicles without vista roof, Inoperative Rear Interior Lamp [C901](#) .
- Disconnect For vehicles with vista roof, Inoperative LH Rear Interior Lamp [C963](#) or Inoperative RH Rear Interior Lamp [C964](#) .
- Ignition ON.
- Measure:

OVERHEAD CONSOLE	
------------------	--

Front Map Lamp

Positive Lead	Measurement / Action	Negative Lead
C930-12		Ground

SECOND ROW INTERIOR LAMP	
--------------------------	--

Rear Map Lamp, Vehicles Without Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C901-1		Ground

REAR INTERIOR LAMP LH	
-----------------------	---

LH Rear Map Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C963-1		Ground

REAR INTERIOR LAMP RH	
-----------------------	--

RH Rear Map Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C964-1		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:

OVERHEAD CONSOLE

Front Map Lamp

Positive Lead	Measurement / Action	Negative Lead
C930-12		C930-1

SECOND ROW INTERIOR LAMP

Rear Map Lamp, Vehicles Without Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C901-1		C901-5

REAR INTERIOR LAMP LH

LH Rear Map Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C963-1		C963-3

REAR INTERIOR LAMP RH

RH Rear Map Lamp, Vehicles With Vista Roof

Positive Lead	Measurement / Action	Negative Lead
C964-1		C964-3

Is the voltage greater than 11 volts?

Yes	For the front interior lamp, vehicles with an overhead console, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). For a rear interior lamp, INSTALL a new rear interior lamp.
No	REPAIR the circuit.

E12 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect the BCM connectors and related in-line 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, Click here 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).

☐ PINPOINT TEST F : 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

F1 CHECK THE DEMAND LAMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect BCM [C2280F](#) .
- Turn any demand (map or vanity mirror) lamp on.

Does the demand lamp turn on?

Yes	REPAIR the circuit.
No	GO to F2

F2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect the BCM connectors and related in-line 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, Click here 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).

PINPOINT TEST G : A PUDDLE LAMP IS INOPERATIVE OR ALWAYS ON

Refer to Wiring Diagrams Cell [89 124](#) 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 Condition
DDM B1165:11	Left Front Puddle Lamp Output: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the DDM detects a short to ground from the puddle lamp output circuit.
DDM B1165:15	Left Front Puddle Lamp Output: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the DDM detects an open or a short to voltage from the puddle lamp output circuit.
PDM B1166:11	Right Front Puddle Lamp Output: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the PDM detects a short to ground from the puddle lamp output circuit.
PDM B1166:15	Right Front Puddle Lamp Output: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the PDM detects an open or a short to voltage from the puddle lamp output circuit.

Possible Sources

- Wiring, terminals or connectors
- Puddle lamp
- Exterior mirror
- DDM
- PDM

Visual Inspection and Pre-checks

- Inspect the exterior mirror for damage.

G1 CHECK THE OPERATION OF THE INTERIOR COURTESY LAMPS

- Ignition ON.
- Ignition OFF.
- Open and close a door.
- Observe the interior courtesy lamp operation for 30 seconds.

Do the interior courtesy lamps operate correctly?

Yes	If a puddle lamp is always on, GO to G2 If a puddle lamp is inoperative, GO to G3
No	REFER to the Interior Lamps Symptom Chart in this section and diagnose the interior courtesy lamps.

G2 CHECK THE PUDDLE LAMP POWER SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect DDM LHD [C501B](#) or RHD [C653B](#) .
- Disconnect PDM LHD [C652B](#) or RHD [C590B](#) .
- Ignition ON.

Does the puddle lamp continue to illuminate?

Yes	REPAIR the circuit.
No	For a driver door module, GO to G8 For a passenger door module, GO to G9

G3 CHECK THE MIRROR OPERATION

- Ignition ON.
- Using the exterior mirror control switch, operate the exterior power mirrors.

Do the exterior power mirrors operate?

Yes	GO to G4
No	REFER to: Rear View Mirrors (501-09 Rear View Mirrors, Diagnosis and Testing).

G4 CHECK FOR VOLTAGE TO THE PUDDLE LAMP

- Ignition OFF.
- Disconnect Inoperative Exterior Mirror.
- Ignition ON.
- Open any door.
- Measure:

EXTERIOR MIRROR LH	
--------------------	--

LH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C516-4		Ground

	
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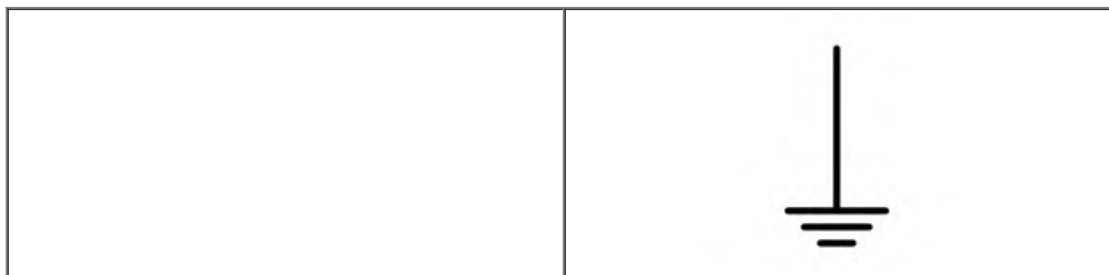
LH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C517-4		Ground

EXTERIOR MIRROR RH	
--------------------	--

RH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C601-4		Ground



RH Exterior Mirror - RHD

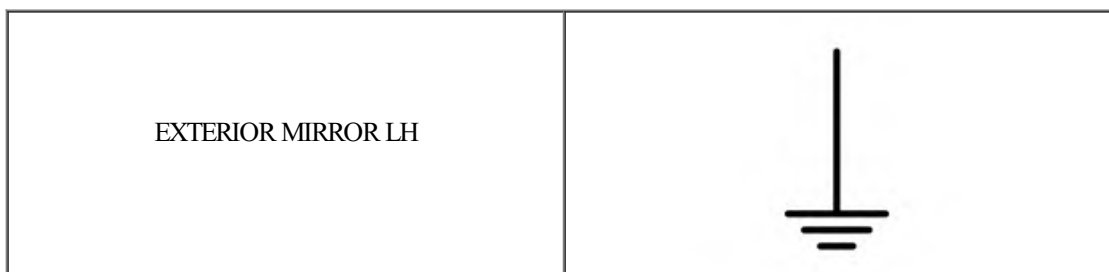
Positive Lead	Measurement / Action	Negative Lead
C622-4		Ground

Is the voltage greater than 11 volts?

Yes	GO to G7
No	GO to G5

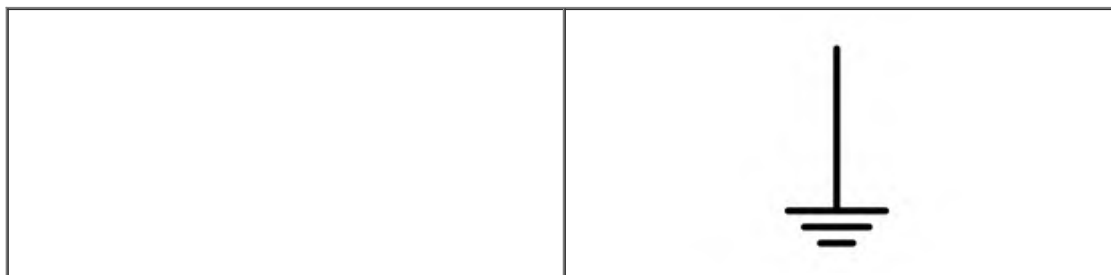
G5 CHECK THE PUDDLE LAMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect DDM LHD [C501B](#) or RHD [C653B](#) .
- Disconnect PDM LHD [C652B](#) or RHD [C590B](#) .
- Measure:



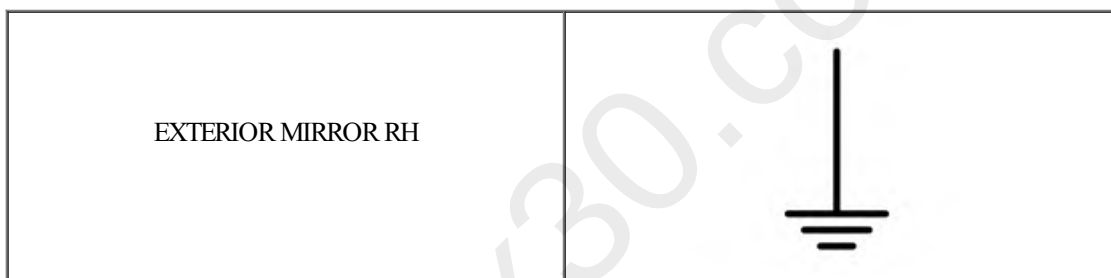
LH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C516-4	Ω	Ground



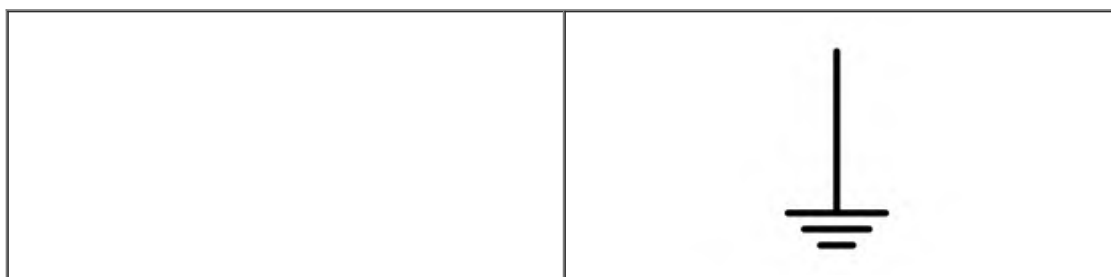
LH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C517-4	Ω	Ground



RH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C601-4	Ω	Ground



RH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C622-4	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to G6
No	REPAIR the circuit.

G6 CHECK THE PUDDLE LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Measure:

EXTERIOR MIRROR LH	DRIVER DOOR MODULE (DDM)
--------------------	--------------------------

LH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C516-4	Ω	C501B-10

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LH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C517-4	Ω	C590B-10

EXTERIOR MIRROR RH	PASSENGER DOOR MODULE (PDM)
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RH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C601-4	Ω	C652B-10

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RH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C622-4	Ω	C653B-10

Is the resistance less than 3 ohms?

Yes	For a driver door module, GO to G8 For a passenger door module, GO to G9
No	REPAIR the circuit.

G7 CHECK THE EXTERIOR MIRROR GROUND CIRCUIT FOR AN OPEN

- Measure:

EXTERIOR MIRROR LH

LH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C516-4		C516-16

--

LH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C517-4		C517-16

EXTERIOR MIRROR RH

RH Exterior Mirror - LHD

Positive Lead	Measurement / Action	Negative Lead
C601-4		C601-16

--

RH Exterior Mirror - RHD

Positive Lead	Measurement / Action	Negative Lead
C622-4		C622-16

Is the voltage greater than 11 volts?

Yes	CHECK the exterior mirror jumper harness between the vehicle harness and the puddle lamp for open circuits and damaged or pushed-out pins. If the jumper harness is OK, INSTALL a new puddle lamp. REFER to: Exterior Mirror (501-09 Rear View Mirrors, Removal and Installation). If the jumper harness is not OK, REPAIR the jumper harness.
No	REPAIR the circuit.

G8 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

- Disconnect and inspect all DDM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€ clean module pins)
 - damaged or bent pins â€ install new terminals/pins
 - pushed-out pins â€ install new pins as necessary
- Reconnect the DDM connectors and related in-line 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 DDM. 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).

G9 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect and inspect all PDM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€ clean module pins)
 - damaged or bent pins â€ install new terminals/pins
 - pushed-out pins â€ install new pins as necessary
- Reconnect the PDM connectors and related in-line 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 PDM. 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).

PINPOINT TEST H : THE AMBIENT LIGHTING IS 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 Condition
BCM B145C:11	Ambient Lighting Power Supply Output: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the ambient light module conditioned power supply output circuit.
BCM B145C:15	Ambient Lighting Power Supply Output: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the ambient light module conditioned power supply output circuit.
BCM B1465:00	Ambient Lighting Bus 1: No Sub Type Information	A continuous memory DTC that sets when the BCM detects a fault on an ambient lighting LIN circuit.
BCM B1467:00	Ambient Lighting Bus 3: No Sub Type Information	A continuous memory DTC that sets when the BCM detects a fault on an ambient lighting LIN circuit.
BCM U1000:00	Solid State Driver Protection Active - Driver Disabled: No Sub Type Information	This DTC sets when the BCM 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 BCM 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.
BCM U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM 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 BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.

Possible Sources

- Wiring, terminals or connectors
- FDIM
- BCM

H1 CHECK THE FDIM (FRONT DISPLAY INTERFACE MODULE) AUDIO CONTROLS

- Ignition ON.
- Check the operation of the audio system using the FDIM (touchscreen) controls.

Does the audio system operate correctly from the touchscreen controls?

Yes	GO to H2
No	REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information, Diagnosis and Testing).

H2 CHECK FOR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODE (DTCs)

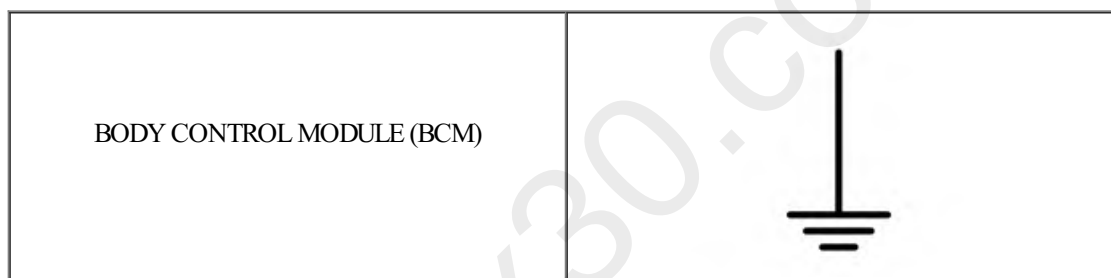
- Ignition ON.
- Using a diagnostic scan tool, perform the BCM self-test.

Is DTC B1465:00, B1467:00, B145C:11 or B145C:15 present?

Yes	For DTC B1465:00, GO to H3 For DTC B1467:00, GO to H7 For DTC B145C:11, GO to H11 For DTC B145C:15, GO to H12
No	GO to H15

H3 CHECK THE DOOR AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect BCM [C2280D](#) .
- Disconnect BCM [C2280F](#) .
- Ignition ON.
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C2280D-38		Ground

Is voltage present?

Yes	REPAIR the circuit.
No	GO to H4

H4 CHECK THE DOOR AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect LH Front Door [C573](#) .
- Measure:

FRONT DOOR LOCK INDICATOR LH	BODY CONTROL MODULE (BCM)
------------------------------	---------------------------

Positive Lead	Measurement / Action	Negative Lead
C573-1	Ω	C2280D-38

Is the resistance less than 3 ohms?

Yes	GO to H5
No	REPAIR the circuit.

H5 CHECK THE DOOR AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO GROUND

- Disconnect RH Front Door [C649](#) .
- Disconnect LH Rear Door [C737](#) .
- Disconnect RH Rear Door [C837](#) .
- Measure:

FRONT DOOR LOCK INDICATOR LH	
------------------------------	--

Positive Lead	Measurement / Action	Negative Lead
C573-1	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to H6
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present, ☐ Click here to access Guided Routine (BCM) .

H6 CHECK THE DOOR AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO THE VOLTAGE SUPPLY CIRCUIT

- Measure:

BODY CONTROL MODULE (BCM)	BODY CONTROL MODULE (BCM)
---------------------------	---------------------------

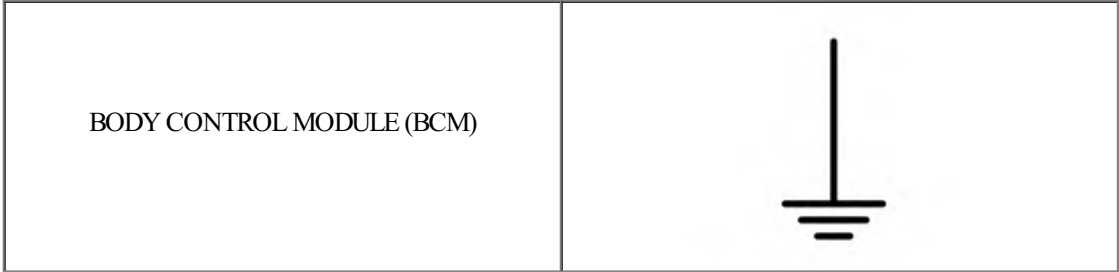
Positive Lead	Measurement / Action	Negative Lead
C2280D-38	Ω	C2280F-4

Is the resistance greater than 10,000 ohms?

Yes	GO to H15
No	REPAIR the circuit.

H7 CHECK THE AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect BCM [C2280F](#) .
- Ignition ON.
- Disconnect BCM [C2280G](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C2280G-13		Ground

Is voltage present?

Yes	REPAIR the circuit.
No	GO to H8

H8 CHECK THE AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect LH Front Footwell Lamp [C209](#) .
- Measure:

BODY CONTROL MODULE (BCM)	FOOTWELL LAMP LH
---------------------------	------------------

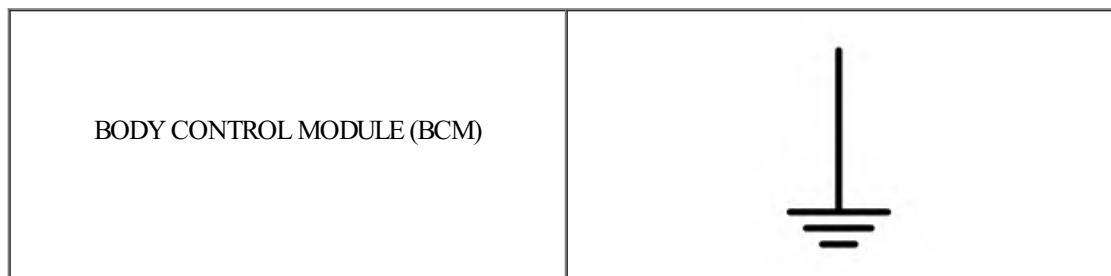
Positive Lead	Measurement / Action	Negative Lead
C2280G-13	Ω	C209-2

Is the resistance less than 3 ohms?

Yes	GO to H9
No	REPAIR the circuit.

H9 CHECK THE AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO GROUND

- Disconnect RH Front Footwell Lamp [C266](#) .
- Disconnect Floor Console Lamp [C3555](#) .
- Disconnect Floor Console Cup Holder Ambient Lamp [C3349](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C2280G-13	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to H10
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present, ☐ Click here to access Guided Routine (BCM) .

H10 CHECK THE AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO THE VOLTAGE SUPPLY CIRCUIT

- Measure:

BODY CONTROL MODULE (BCM)	BODY CONTROL MODULE (BCM)
---------------------------	---------------------------

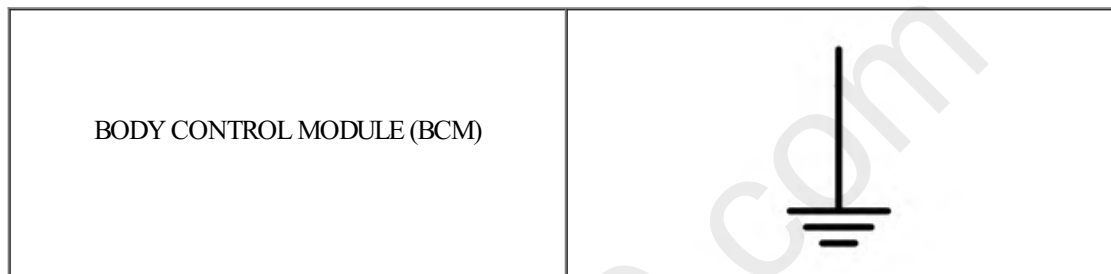
Positive Lead	Measurement / Action	Negative Lead
C2280G-13	Ω	C2280F-4

Is the resistance greater than 10,000 ohms?

Yes	GO to H15
No	REPAIR the circuit.

H11 CHECK THE AMBIENT LIGHTING VOLTAGE CIRCUIT FOR A SHORT TO GROUND

- Disconnect BCM [C2280F](#) .
- Disconnect LH Front Door [C573](#) .
- Disconnect RH Front Door [C649](#) .
- Disconnect LH Rear Door [C737](#) .
- Disconnect RH Rear Door [C837](#) .
- Disconnect LH Front Footwell Lamp [C209](#) .
- Disconnect RH Front Footwell Lamp [C266](#) .
- Disconnect Floor Console Lamp [C3555](#) .
- Disconnect Floor Console Storage Bin Ambient Lamp [C3554](#) .
- Disconnect Floor Console Cup Holder Ambient Lamp [C3349](#) .
- Disconnect Console Front Ambient LED [C2502](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C2280F-4	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to H15
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present, ☐ Click here to access Guided Routine (BCM) .

H12 CHECK THE AMBIENT LIGHTING VOLTAGE CIRCUIT FOR AN OPEN

- Disconnect BCM [C2280F](#) .
- Disconnect LH Front Footwell Lamp [C209](#) .
- Measure:

BODY CONTROL MODULE (BCM)	FOOTWELL LAMP LH
---------------------------	------------------

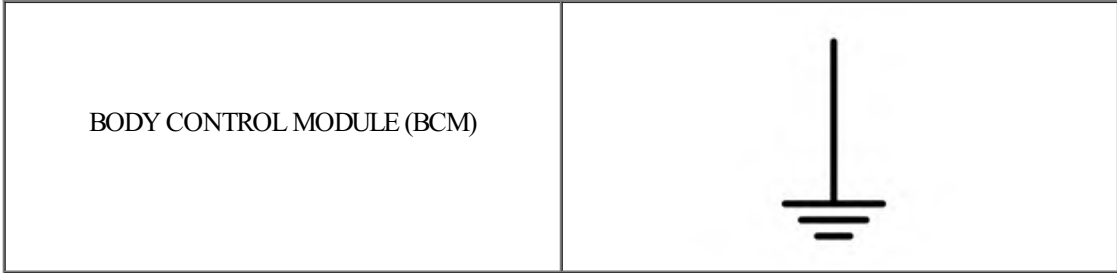
Positive Lead	Measurement / Action	Negative Lead
C2280F-4	Ω	C209-1

Is the resistance greater than 10,000 ohms?

Yes	GO to H13
No	REPAIR the circuit.

H13 CHECK THE AMBIENT LIGHTING VOLTAGE CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition ON.
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C2280F-4		Ground

Is voltage present?

Yes	REPAIR the circuit.
No	GO to H14

H14 CHECK THE AMBIENT LIGHTING VOLTAGE CIRCUIT FOR A SHORT THE AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT

- Ignition OFF.
- Disconnect BCM [C2280D](#) .
- Disconnect BCM [C2280G](#) .
- Measure:

BODY CONTROL MODULE (BCM)	BODY CONTROL MODULE (BCM)
---------------------------	---------------------------

Positive Lead	Measurement / Action	Negative Lead
C2280D-38	Ω	C2280F-4

BODY CONTROL MODULE (BCM)	BODY CONTROL MODULE (BCM)
---------------------------	---------------------------

Positive Lead	Measurement / Action	Negative Lead
C2280G-13	Ω	C2280F-4

Is voltage present?

Yes	REPAIR the circuit.
No	GO to H15

H15 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect the BCM connectors and related in-line 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, Click here 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).

PINPOINT TEST I : ONE OR MORE OF THE AMBIENT LIGHTING LIGHT EMITTING DIODES (LEDs) ARE INOPERATIVE OR DO NOT CHANGE COLOR/INTENSITY

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 Condition
BCM B1465:00	Ambient Lighting Bus 1: No Sub Type Information	Sets when the BCM detects a fault in the LIN circuit to the door ambient lighting Light Emitting Diodes (LEDs).
BCM B1467:00	Ambient Lighting Bus 3: No Sub Type Information	Sets when the BCM detects a fault in the LIN circuit to the footwell and center console ambient lighting Light Emitting Diodes (LEDs).

Possible Sources

- Wiring, terminals or connectors
- Ambient lighting LED
- BCM

I1 CHECK THE AMBIENT LIGHTING LIGHT EMITTING DIODES (LEDs)

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

Are all the front and rear door, instrument panel, cup holder and footwell ambient lighting Light Emitting Diodes (LEDs) inoperative?

Yes	GO to Pinpoint Test H
No	GO to I2

I2 CHECK FOR VOLTAGE TO THE LED (LIGHT EMITTING DIODE)

- Ignition OFF.
- Disconnect Inoperative ambient lighting LED .
- Ignition ON.
- Place the headlamp switch in the PARKLAMPS position.
- Measure:

FLOOR CONSOLE CUP HOLDER AMBIENT LIGHTING LAMP	
--	---

Floor Console Cup Holder

Positive Lead	Measurement / Action	Negative Lead
C3349-1		Ground

FOOTWELL LAMP LH	
------------------	--

LH Front Footwell

Positive Lead	Measurement / Action	Negative Lead
C209-1		Ground

FOOTWELL LAMP RH	
------------------	--

RH Front Footwell

Positive Lead	Measurement / Action	Negative Lead
C266-1		Ground

CONSOLE FRONT AMBIENT LED	
---------------------------	--

Console Front Ambient LED

Positive Lead	Measurement / Action	Negative Lead
C2502-1		Ground

FLOOR CONSOLE LAMP	
--------------------	--

Floor Console Lamp

Positive Lead	Measurement / Action	Negative Lead
C3555-1		Ground

FLOOR CONSOLE STORAGE BIN AMBIENT LIGHTING LAMP	
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Floor Console Storage Bin Lamp

Positive Lead	Measurement / Action	Negative Lead
C3554-1		Ground

FRONT DOOR LOCK INDICATOR LH	
------------------------------	--

LH Front Door

Positive Lead	Measurement / Action	Negative Lead
C573-3		Ground

REAR DOOR LOCK INDICATOR LH	
-----------------------------	--

LH Rear Door

Positive Lead	Measurement / Action	Negative Lead
C737-3		Ground

FRONT DOOR LOCK INDICATOR RH	
------------------------------	---

RH Front Door

Positive Lead	Measurement / Action	Negative Lead
C649-3		Ground

REAR DOOR LOCK INDICATOR RH	
-----------------------------	--

RH Rear Door

Positive Lead	Measurement / Action	Negative Lead
C837-3		Ground

Is the voltage greater than 11 volts?

Yes	GO to I3
No	REPAIR the LED voltage supply circuit in question.

I3 CHECK THE LED (LIGHT EMITTING DIODE) GROUND CIRCUIT FOR AN OPEN

- Measure:

FLOOR CONSOLE CUP HOLDER AMBIENT LIGHTING LAMP
--

Floor Console Cup Holder

Positive Lead	Measurement / Action	Negative Lead
C3349-1		C3349-3

FOOTWELL LAMP LH

LH Front Footwell

Positive Lead	Measurement / Action	Negative Lead
C209-1		C209-3

FOOTWELL LAMP RH

RH Front Footwell

Positive Lead	Measurement / Action	Negative Lead
C266-1		C266-3

CONSOLE FRONT AMBIENT LED

Console Front Ambient LED

Positive Lead	Measurement / Action	Negative Lead
C2502-1		C2502-3

FLOOR CONSOLE LAMP

Floor Console Lamp

Positive Lead	Measurement / Action	Negative Lead
C3555-1		C3555-3

FLOOR CONSOLE STORAGE BIN AMBIENT LIGHTING LAMP

Floor Console Storage Bin Lamp

Positive Lead	Measurement / Action	Negative Lead
C3554-1		C3554-3

FRONT DOOR LOCK INDICATOR LH

Positive Lead	Measurement / Action	Negative Lead
C573-3		C573-4

REAR DOOR LOCK INDICATOR LH

LH Rear Door

Positive Lead	Measurement / Action	Negative Lead
C737-3		C737-4

FRONT DOOR LOCK INDICATOR RH

RH Front Door

Positive Lead	Measurement / Action	Negative Lead
C649-3		C649-4

REAR DOOR LOCK INDICATOR RH

RH Rear Door

Positive Lead	Measurement / Action	Negative Lead
C837-3		C837-4

Is the voltage greater than 11 volts?

I4 CHECK THE AMBIENT LIGHTING LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR AN OPEN

- **Yes** For single color lamps, INSTALL a new ambient lighting LED in question.
For all other lamps, GO to [I4](#)
- **No** REPAIR the ground circuit in question.
- Place the headlamp switch in the OFF position.
- Disconnect BCM [C2280D](#) (door Light Emitting Diodes (LEDs)).
- Disconnect BCM [C2280G](#) (cup holder, front console and front footwell Light Emitting Diodes (LEDs)).
- Measure:

FLOOR CONSOLE CUP HOLDER AMBIENT LIGHTING LAMP	BODY CONTROL MODULE (BCM)
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Floor Console Cup Holder

Positive Lead	Measurement / Action	Negative Lead
C3349-2	Ω	C2280G-13

FOOTWELL LAMP LH	BODY CONTROL MODULE (BCM)
------------------	---------------------------

LH Front Footwell

Positive Lead	Measurement / Action	Negative Lead
C209-2	Ω	C2280G-13

FOOTWELL LAMP RH	BODY CONTROL MODULE (BCM)
------------------	---------------------------

RH Front Footwell

Positive Lead	Measurement / Action	Negative Lead
C266-2	Ω	C2280G-13

FLOOR CONSOLE LAMP	BODY CONTROL MODULE (BCM)
--------------------	---------------------------

Floor Console Lamp

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C3555-2	Ω	C2280G-13

FRONT DOOR LOCK INDICATOR LH	BODY CONTROL MODULE (BCM)
------------------------------	---------------------------

LH Front Door

Positive Lead	Measurement / Action	Negative Lead
C573-1	Ω	C2280D-38

REAR DOOR LOCK INDICATOR LH	BODY CONTROL MODULE (BCM)
-----------------------------	---------------------------

LH Rear Door

Positive Lead	Measurement / Action	Negative Lead
C737-1	Ω	C2280D-38

FRONT DOOR LOCK INDICATOR RH	BODY CONTROL MODULE (BCM)
------------------------------	---------------------------

RH Front Door

Positive Lead	Measurement / Action	Negative Lead
C649-1	Ω	C2280D-38

REAR DOOR LOCK INDICATOR RH	BODY CONTROL MODULE (BCM)
-----------------------------	---------------------------

RH Rear Door

Positive Lead	Measurement / Action	Negative Lead
C837-1	Ω	C2280D-38

Is the resistance less than 3 ohms?

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

[PINPOINT TEST J : THE COURTESY LAMPS DO NOT ILLUMINATE WITH THE LIFTGATE OPEN](#)

Refer to Wiring Diagrams Cell [109](#) 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 Condition
BCM B1306:01	Liftgate Ajar Switch: General Electrical Failure	An on-demand DTC that sets when the BCM detects a fault on the liftgate ajar circuit.
RGTM B1306:11	Liftgate Ajar Switch: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the RGTM detects a short to ground on the liftgate ajar output circuit.

Possible Sources

- Wiring, terminals or connectors
- Liftgate latch
- RGTM
- BCM

J1 CHECK THE COURTESY LAMP OPERATION FROM ANY DOOR

- Ignition OFF.
- Open any door and observe the courtesy lamps.

Do the courtesy lamps illuminate?

Yes	GO to J2
No	GO to Pinpoint Test A

J2 CHECK THE RGTM (REAR GATE TRUNK MODULE) OR THE LIFTGATE LATCH

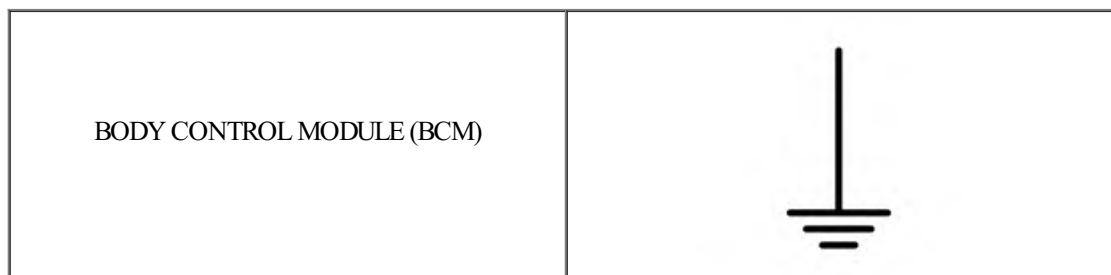
- Disconnect Liftgate Latch [C4223B](#) (manual liftgate).
- Disconnect RGTM [C4174B](#) (power liftgate).

Do the courtesy lamps illuminate?

Yes	If equipped with a manual liftgate, INSTALL a new liftgate latch. REFER to: Liftgate Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). If equipped with a power liftgate, GO to J4
No	GO to J3

J3 CHECK THE LIFTGATE AJAR INPUT CIRCUIT FOR A SHORT TO GROUND

- Disconnect BCM [C2280D](#).
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C2280D-34	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to J5
No	REPAIR the circuit.

J4 CHECK FOR CORRECT RGTM (REAR GATE TRUNK MODULE) OPERATION

- Disconnect and inspect all RGTM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€ clean module pins)
 - damaged or bent pins â€ install new terminals/pins
 - pushed-out pins â€ install new pins as necessary
- Reconnect the RGTM connectors and related in-line 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 RGTM. REFER to: Rear Gate Trunk Module (RGTM) (501-03 Body Closures, 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).

J5 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors and related in-line connectors.
- Repair:
 - corrosion (install new connector or terminals â€ clean module pins)
 - damaged or bent pins â€ install new terminals/pins
 - pushed-out pins â€ install new pins as necessary
- Reconnect the BCM connectors and related in-line 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, Click here 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).

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418-00 Module Communications Network