

Instrument Panel and Interior Switches Illumination

Diagnostic Trouble Code (DTC) Chart

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).

Diagnostic Trouble Code Chart

Module	DTC	Description	Action <i>New: hover over Pinpoint Test links to show title</i>
BCM	B1315:11	Backlighting (Non Reflective Controls) Illumination Output: Circuit Short To Ground	GO to Pinpoint Test C
BCM	B1315:15	Backlighting (Non Reflective Controls) Illumination Output: Circuit Short To Battery or Open	GO to Pinpoint Test C
BCM	B1315:15	Backlighting (Non Reflective Controls) Illumination Output: Circuit Short To Battery or Open	GO to Pinpoint Test D
BCM	B1436:01	Digital Dimmer Switch Input: General Electrical Failure	GO to Pinpoint Test A
DDM	U2010:11	Switch Illumination: Circuit Short To Ground	GO to Pinpoint Test G
PDM	U2010:11	Switch Illumination: Circuit Short To Ground	GO to Pinpoint Test H

Symptom Chart

Symptom Chart: Instrument Panel and Interior Switches Illumination

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).

Condition	Action <i>New: hover over Pinpoint Test links to show title</i>
All dimmable illumination does not dim or increase brightness using the dimmer control from the headlamp switch	GO to Pinpoint Test A
All networked illumination is inoperative (non-networked illumination functions correctly)	GO to Pinpoint Test B
All non-networked illumination is inoperative (networked illumination functions correctly)	GO to Pinpoint Test C
All non-networked illumination are always on (networked illumination functions correctly)	GO to Pinpoint Test D
The steering wheel switch(es) illumination is inoperative or always on	GO to Pinpoint Test E
One or more non-networked illumination source is inoperative	GO to Pinpoint Test F
A single non-network illuminated switch or component is always on	INSTALL a new illuminated switch or component.

One or more DDM non-dimmable controlled illumination source is inoperative	• GO to Pinpoint Test G
One or more PDM non-dimmable controlled illumination source is inoperative	• GO to Pinpoint Test H
The rear door window control switch illumination is inoperative	• GO to Pinpoint Test J
The power sliding window control switch illumination is inoperative	• GO to Pinpoint Test K
The IPC illumination is inoperative or does not dim	• GO to Pinpoint Test L
The FCIM illumination is inoperative or does not dim	• GO to Pinpoint Test M
The FDI illumination is inoperative or does not dim	• GO to Pinpoint Test N

Pinpoint Test

☐ [PINPOINT TEST A : ALL DIMMABLE ILLUMINATION DOES NOT DIM OR INCREASE BRIGHTNESS USING THE DIMMER CONTROL FROM THE HEADLAMP SWITCH](#)

Refer to Wiring Diagrams Cell [71](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BCM B1436:01	Digital Dimmer Switch Input: General Electrical Failure	Sets when the BCM detects a short to ground from the dim up or dim down inputs.

Possible Sources

- Wiring, terminals or connectors
- Headlamp switch
- BCM

A1 CHECK FOR RECORDED DIAGNOSTIC TROUBLE CODES (DTCs) FROM THE BCM (BODY CONTROL MODULE) SELF-TEST

- Ignition ON.
- Using a diagnostic scan tool, carry out a BCM self-test.

Is DTC B1436:01 present?

Yes	GO to A2
No	GO to A4

A2 ISOLATE THE HEADLAMP SWITCH

- Ignition OFF.
- Disconnect Headlamp Switch [C205](#) .
- Ignition ON.
- **NOTE:** Other Body Control Module (BCM) Diagnostic Trouble Codes (DTCs) may set and should be ignored.

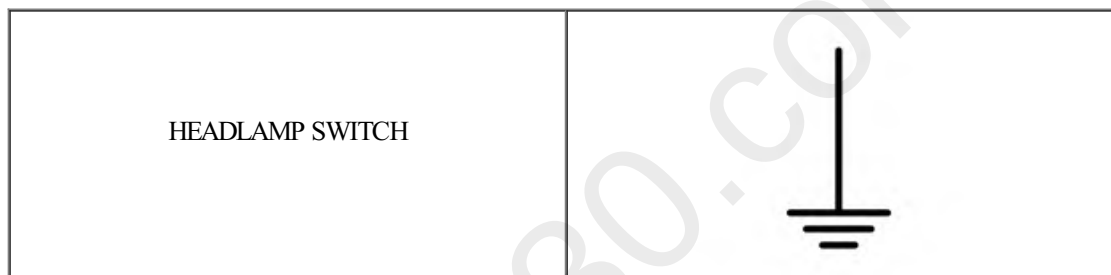
Using a diagnostic scan tool, clear the BCM Diagnostic Trouble Codes (DTCs) and repeat the BCM self-test.

Is DTC B1436:01 still present?

Yes	GO to A3
No	INSTALL a new headlamp switch. REFER to: Headlamp Switch (417-01 Exterior Lighting, Removal and Installation).

A3 CHECK THE DIM UP AND DIM DOWN CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect BCM [C2280B](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C205-3	Ω	Ground
C205-6	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to A7
No	REPAIR circuit in question.

A4 BYPASS THE INSTRUMENT PANEL DIMMER SWITCH

- Ignition OFF.
- Disconnect Headlamp Switch [C205](#) .
- Connect:

HEADLAMP SWITCH

Backlighting Intensity Increase

Lead 1	Measurement / Action	Lead 2
C205-6		C205-5

- Observe the backlighting intensity.
- Remove the fused jumper wire.
- Connect:

HEADLAMP SWITCH

Backlighting Intensity Decrease

Positive Lead	Measurement / Action	Negative Lead
C205-3		C205-5

- Observe the backlighting intensity.
- Remove the fused jumper wire.

Does the backlighting intensity increase and decrease with the fused jumper wires?

Yes	INSTALL a new headlamp switch. REFER to: Headlamp Switch (417-01 Exterior Lighting, Removal and Installation).
No	GO to A5

A5 CHECK THE DIM UP AND DIM DOWN CIRCUITS FOR AN OPEN

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

HEADLAMP SWITCH	BODY CONTROL MODULE (BCM)
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Positive Lead	Measurement / Action	Negative Lead
C205-3	Ω	C2280B-3
C205-6	Ω	C2280B-7

Are the resistances less than 3 ohms?

Yes	GO to A6
No	REPAIR circuit in question.

A6 CHECK THE DIM UP AND DIM DOWN CIRCUITS FOR A SHORT TOGETHER

- Measure:

HEADLAMP SWITCH

Positive Lead	Measurement / Action	Negative Lead
C205-3	Ω	C205-6

Is the resistance greater than 10,000 ohms?

Yes	GO to A7
No	REPAIR the circuits.

A7 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all the BCM and all 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 all of the BCM and all related in-line connectors and make sure they seat and latch correctly.
- Operate the system to 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 BCM. REFER to: Body Control Module (BCM) (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.

PINPOINT TEST B : ALL NETWORKED ILLUMINATION IS INOPERATIVE (NON-NETWORKED ILLUMINATION FUNCTIONS CORRECTLY)

Refer to Wiring Diagrams Cell [71](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- BCM

B1 PERFORM A NETWORK TEST

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

Do all modules pass the network test?

Yes	GO to B2
No	DIAGNOSE a concern with the network. REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).

B2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM 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 and related in-line connectors and all previously disconnected illumination system connectors. Make sure all connectors seat and latch correctly.
- Operate the system to 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 BCM. REFER to: Body Control Module (BCM) (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.

PINPOINT TEST C : ALL NON-NETWORKED ILLUMINATION SOURCES ARE INOPERATIVE (NETWORKED ILLUMINATION FUNCTIONS CORRECTLY)

Refer to Wiring Diagrams Cell [71](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BCM B1315:11	Backlighting (Non Reflective Controls) Illumination Output: Circuit Short To Ground	Sets when the BCM detects a short to ground from the backlighting illumination output.
BCM B1315:15	Backlighting (Non Reflective Controls) Illumination Output: Circuit Short To Battery Or Open	Sets when the BCM detects an open from the backlighting illumination output.

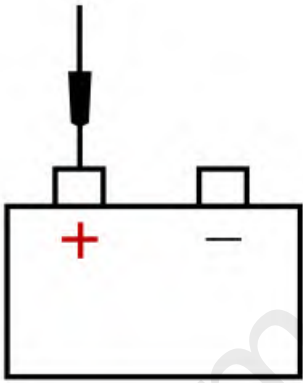
Possible Sources

- Wiring, terminals or connectors
- BCM

C1 CHECK THE BCM (BODY CONTROL MODULE) DIMMABLE CONTROLLED OUTPUT CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect BCM [C2280B](#).
- **NOTE:** If the fuse in the jumper wire fails, refer to the Wiring Diagrams manual to identify the possible causes of the circuit short. After the repair, clear the Diagnostic Trouble Codes (DTCs) and repeat the BCM self-test (required to enable the illumination output driver when DTC U1000:00 sets).

Connect:

Lead 1	Measurement / Action	Lead 2
C2280B-45		 E142358 Battery positive

Do the dimmable components illuminate?

Yes	REMOVE the fused jumper wire. GO to C2
No	REMOVE the fused jumper wire. REPAIR the circuit.

C2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all the BCM 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 all the BCM and related in-line connectors and make sure they seat and latch correctly.
- Operate the system to 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 BCM. REFER to: Body Control Module (BCM) (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.

PINPOINT TEST D : ALL NON-NETWORKED ILLUMINATION SOURCES ARE ALWAYS ON (NETWORKED ILLUMINATION FUNCTIONS CORRECTLY)

Refer to Wiring Diagrams Cell [71](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BCM B1315:15	Backlighting (Non Reflective Controls) Illumination Output: Circuit Short To Battery Or Open	Sets when the BCM detects a short to voltage from the backlighting illumination output.

Possible Sources

- Wiring, terminals or connectors
- Headlamp switch concern
- BCM

D1 CHECK THE EXTERIOR LIGHTING

- Ignition ON.
- Place the headlamp switch in the OFF position.
- Observe the exterior lamps.

Are the exterior lamps illuminated?

Yes	REFER to: Headlamps (417-01 Exterior Lighting, Diagnosis and Testing).
No	GO to D2

D2 CONFIRM THE DIMMABLE BACKLIGHTING IS ON WITH THE EXTERIOR LIGHTING OFF

- Observe the dimmable components.

Are the dimmable components illuminated at full intensity?

Yes	GO to D3
No	GO to Pinpoint Test A

D3 CHECK THE BCM (BODY CONTROL MODULE) DIMMABLE ILLUMINATION OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect BCM [C2280B](#) .

Do the dimmable components continue to illuminate?

Yes	REPAIR the circuit.
No	GO to D4

D4 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all the BCM 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 all the BCM and related in-line connectors and make sure they seat and latch correctly.
- Operate the system to 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 BCM. REFER to: Body Control Module (BCM) (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.

☐ PINPOINT TEST E : THE STEERING WHEEL SWITCH(ES) ILLUMINATION IS INOPERATIVE OR ALWAYS ON

Refer to Wiring Diagrams Cell [71](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Steering wheel switch
- Clockspring
- Steering wheel
- Driver airbag

E1 CHECK IF ALL THE STEERING WHEEL ILLUMINATED SWITCHES ARE INOPERATIVE

- Ignition OFF.
- Place the headlamp switch in the PARKING LAMPS ON position.
- Press and hold the instrument panel dimmer up switch until the dimmable illumination is at full intensity.
- Check the operation of the dimmable steering wheel switches.

Is any steering wheel switch illuminated?

Yes	GO to E6
No	GO to E2

E2 CHECK THE HORN OPERATION

- Check the operation of the traffic horn.

Does the traffic horn operate?

Yes	GO to E3
No	REFER to: Horn (413-06 Horn, Diagnosis and Testing).

E3 CHECK FOR ILLUMINATION VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Depower the SRS.
REFER to: Supplemental Restraint System (SRS) Depowering (501-20B Supplemental Restraint System, General Procedures).
- Disconnect Clockspring [C218A](#) .
- Place the headlamp switch in the PARKING LAMPS ON position.
- Press and hold the instrument panel dimmer up switch until the dimmable illumination is at full intensity.
- Measure:

CLOCKSPRING	
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Vehicles Not Equipped With Adaptive Steering

Positive Lead	Measurement / Action	Negative Lead
C218A-9		Ground

CLOCKSPRING	
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Vehicles Equipped With Adaptive Steering

Positive Lead	Measurement / Action	Negative Lead
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Positive Lead	Measurement / Action	Negative Lead
C218A-4		Ground

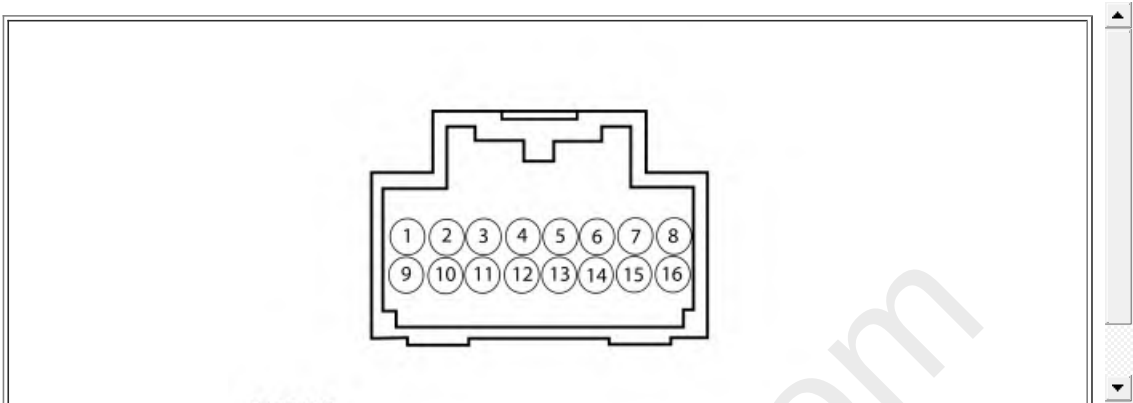
Is the voltage greater than 11 volts?

Yes	For vehicles not equipped with adaptive steering, GO to E4 For vehicles Equipped with adaptive steering, GO to E5
No	REPAIR the circuit.

E4 CHECK THE CLOCKSPRING (VEHICLES NOT EQUIPPED WITH ADAPTIVE STEERING)

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- Place the headlamp switch in the OFF position.
- Connect Clockspring [C218A](#) .
- Remove the driver airbag.
REFER to: Driver Airbag (501-20B Supplemental Restraint System, Removal and Installation).
- Disconnect Clockspring [C218B](#) .
- Place the headlamp switch in the PARKING LAMPS ON position.
- Ignition ON.
- Measure:



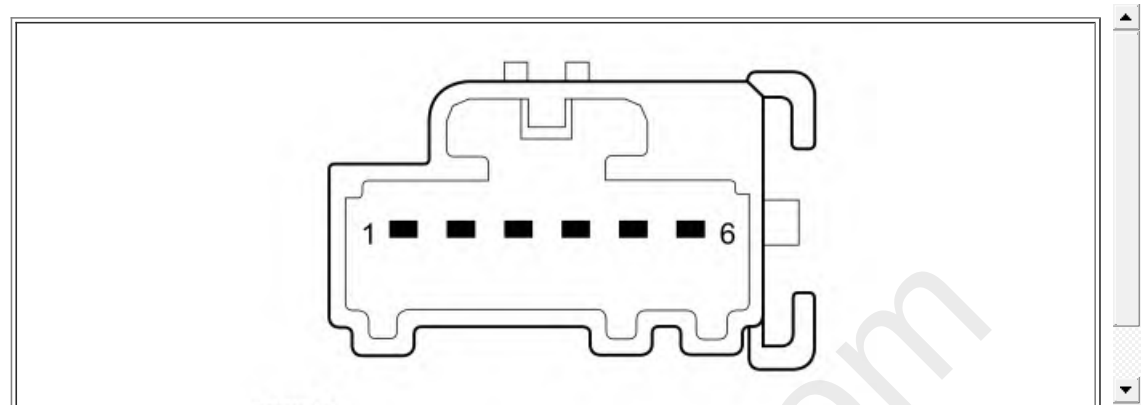
Positive Lead	Measurement / Action	Negative Lead
Clockspring C218B, pin 11, component side		Clockspring C218B, pin 1, component side

Is the voltage greater than 11 volts?

Yes	INSTALL a new steering wheel. REFER to: Steering Wheel (211-04 Steering Column, Removal and Installation).
No	INSTALL a new clockspring. REFER to: Clockspring (501-20B Supplemental Restraint System, Removal and Installation).

E5 CHECK THE CLOCKSPRING (VEHICLES EQUIPPED WITH ADAPTIVE STEERING)

- Place the headlamp switch in the OFF position.
- Connect Clockspring [C218A](#).
- Remove the steering wheel.
REFER to: Steering Wheel - Vehicles With: Adaptive Steering (211-04 Steering Column, Removal and Installation).
- Disconnect Clockspring [C218B](#).
- Place the headlamp switch in the PARKING LAMPS ON position.
- Ignition ON.
- Measure:



Positive Lead	Measurement / Action	Negative Lead
Clockspring C218E, pin 3, component side		Clockspring C218E, pin 4, component side

Is the voltage greater than 11 volts?

Yes	INSTALL a new steering wheel. REFER to: Steering Wheel - Vehicles With: Adaptive Steering (211-04 Steering Column, Removal and Installation).
No	INSTALL a new clockspring. REFER to: Clockspring - Vehicles With: Adaptive Steering (501-20B Supplemental Restraint System, Removal and Installation).

E6 CHECK FOR VOLTAGE TO THE SUSPECT STEERING WHEEL SWITCH

- Place the headlamp switch in the OFF position.
- Depower the SRS.
REFER to: Supplemental Restraint System (SRS) Depowering (501-20B Supplemental Restraint System, General Procedures).
- Disconnect the suspect steering wheel switch.
- Place the headlamp switch in the PARKING LAMPS ON position.
- Measure:

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Left Upper Steering Control Switch

Positive Lead	Measurement / Action	Negative Lead
C2998-4		C2998-1

STEERING WHEEL SWITCH RH

Right Upper Steering Control Switch

Positive Lead	Measurement / Action	Negative Lead
C2491-4		C2491-1

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Left Lower Steering Control Switch (without cruise control)

Positive Lead	Measurement / Action	Negative Lead
C2429-6		C2429-1

STEERING WHEEL SWITCH LH

Left Lower Steering Control Switch (with cruise control)

Positive Lead	Measurement / Action	Negative Lead
C2366-6		C2366-1

Right Lower Steering Control Switch

Positive Lead	Measurement / Action	Negative Lead
C2367-6		C2367-1

Is the voltage greater than 11 volts?

Yes	INSTALL a new steering wheel switch in question. REFER to: Steering Wheel Multifunction Switch (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).
No	INSTALL a new steering wheel. REFER to: Steering Wheel (211-04 Steering Column, Removal and Installation). or REFER to: Steering Wheel - Vehicles With: Adaptive Steering (211-04 Steering Column, Removal and Installation).

Refer to Wiring Diagrams Cell [71](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Illuminated component

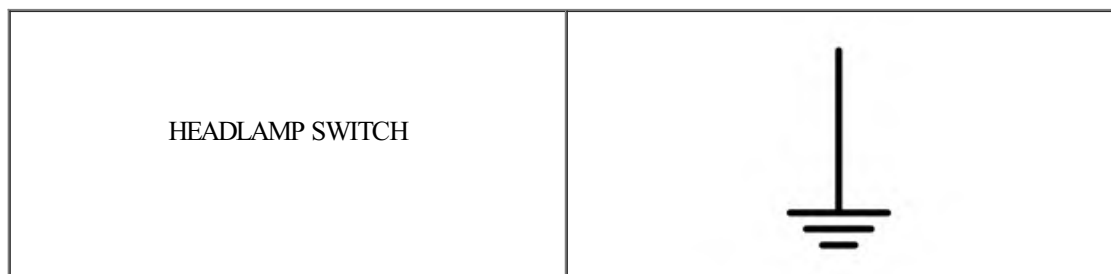
F1 CHECK THE DIMMABLE COMPONENT VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect the suspect illuminated component. **NOTE:** *If the headlamp switch illumination is inoperative, set the instrument panel dimmable illumination to the brightest setting with the parking lamps on prior to disconnecting the headlamp switch.*
- Place the headlamp switch in the PARKING LAMPS ON position.
- Press and hold the instrument panel dimmer up switch until the dimmable illumination is at full intensity.
- Measure:



Tailgate Release Switch

Positive Lead	Measurement / Action	Negative Lead
C2517-3		Ground



Headlamp Switch

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C205-15		Ground

HEATED SEAT SWITCH, REAR	
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Heated Rear Seat Switch

Positive Lead	Measurement / Action	Negative Lead
C3182-1		Ground

	
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Overhead Console

Positive Lead	Measurement / Action	Negative Lead
C912-10		Ground

DOME LAMP, FRONT	
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Front Dome Lamp (Vehicles Without Overhead Console)

Positive Lead	Measurement / Action	Negative Lead
C901-3		Ground

ADJUSTABLE PEDAL SWITCH	
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Adjustable Pedal Switch

Positive Lead	Measurement / Action	Negative Lead
C2089-3		Ground

STABILITY ASSIST/ENGINE BRAKE SWITCH	
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Exhaust Brake/Roll Stability Control Switch

Positive Lead	Measurement / Action	Negative Lead
C2182-5		Ground

IGNITION SWITCH-PUSH BUTTON START	
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Ignition Switch (push button)

Positive Lead	Measurement / Action	Negative Lead
C2195-5		Ground

LANE KEEPING SYSTEM/CAMERA SELECTION SWITCH	
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Lane Departure Switch

Positive Lead	Measurement / Action	Negative Lead
C3513-5		Ground

MODE SELECT SWITCH (MSS)	
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Mode Select Switch

Positive Lead	Measurement / Action	Negative Lead
C284-4		Ground

SPOT LAMP SWITCH	
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Spot Lamp Switch

Positive Lead	Measurement / Action	Negative Lead
C2507-5		Ground

UPFITTER SWITCH	
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Upfitter Auxiliary Switches

Positive Lead	Measurement / Action	Negative Lead
C9120-12		Ground

HAZARD/HILL DESCENT SWITCH	
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Hazard Flasher Switch

Positive Lead	Measurement / Action	Negative Lead
C3394-5		Ground

Is the voltage greater than 11 volts?

Yes	GO to F2
No	REPAIR the circuit.

F2 CHECK THE DIMMABLE COMPONENT GROUND CIRCUIT FOR AN OPEN

- Measure:

TAILGATE RELEASE SWITCH

Tailgate Release Switch

Positive Lead	Measurement / Action	Negative Lead
C2517-3		C2517-2

HEADLAMP SWITCH

Headlamp Switch

Positive Lead	Measurement / Action	Negative Lead
C205-15		C205-5

HEATED SEAT SWITCH, REAR

Heated Rear Seat Switch

Positive Lead	Measurement / Action	Negative Lead
C3182-1		C3182-8

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Overhead Console

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C912-10		C912-1

DOME LAMP, FRONT

Front Dome Lamp (Vehicles Without Overhead Console)

Positive Lead	Measurement / Action	Negative Lead
C901-3		C901-5

ADJUSTABLE PEDAL SWITCH

Adjustable Pedal Switch

Positive Lead	Measurement / Action	Negative Lead
C2089-3		C2089-4

STABILITY ASSIST/ENGINE BRAKE SWITCH

Exhaust Brake/Roll Stability Control Switch

Positive Lead	Measurement / Action	Negative Lead
C2182-5		C2182-3

IGNITION SWITCH-PUSH BUTTON START

Ignition Switch (push button)

Positive Lead	Measurement / Action	Negative Lead
C2195-5		C2195-3

LANE KEEPING SYSTEM/CAMERA SELECTION SWITCH

Lane Departure Switch

Positive Lead	Measurement / Action	Negative Lead
C3513-5		C3513-3

MODE SELECT SWITCH (MSS)

Mode Select Switch

Positive Lead	Measurement / Action	Negative Lead
C284-4		C284-1

SPOT LAMP SWITCH

Spot Lamp Switch

Positive Lead	Measurement / Action	Negative Lead
C2507-5		C2507-3

UPFITTER SWITCH

Upfitter Auxiliary Switches

Positive Lead	Measurement / Action	Negative Lead
C9120-12		C29120-3

HAZARD/HILL DESCENT SWITCH

Hazard Flasher Switch

Positive Lead	Measurement / Action	Negative Lead
C3394-5		C3394-3

Is the voltage greater than 11 volts?

Yes	INSTALL a new component for the one in question.
No	REPAIR the circuit.

☐ [PINPOINT TEST G : ONE OR MORE DDM \(DRIVER DOOR MODULE\) NON-DIMMABLE CONTROLLED ILLUMINATION SOURCE IS INOPERATIVE](#)

Refer to Wiring Diagrams Cell [100](#) for schematic and connector information.

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

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - Overview (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
DDM U2010:11	Switch Illumination: Circuit Short To Ground	Sets when the DDM detects a short to ground from the non-dimmable switch illumination output.

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- Left front door window control switch
- Left front door lock control switch
- Telescoping mirror switch
- DDM

G1 CHECK FOR DDM (DRIVER DOOR MODULE) NETWORK COMMUNICATION

- Ignition ON.
- Using a diagnostic scan tool, carry out a network test.

Does the DDM pass the network test?

Yes	If equipped with telescoping mirror switch, If not equipped with a telescoping mirror switch,
No	DIAGNOSE a concern with the network. REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).

G2 VERIFY THE LEFT FRONT DOOR LOCK AND/OR WINDOW CONTROL SWITCH(ES) FUNCTIONALITY

- Actuate the door locks and the power window from the driver front door switches.

Do the driver front window and door locks operate normally?

Yes	If the left front window switch illumination is inoperative, INSTALL a new window switch. REFER to: Front Door Window Control Switch - Vehicles With: Front Power Windows (501-11 Glass, Frames and Mechanisms, Removal and Installation). If equipped with telescoping mirror switch, GO to G3 If not equipped with a telescoping mirror switch, GO to G7
No	For a door lock concern, REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing). For a window concern, REFER to: Glass, Frames and Mechanisms (501-11 Glass, Frames and Mechanisms, Diagnosis and Testing).

G3 CHECK THE ILLUMINATION OF ALL THE NON-DIMMABLE COMPONENTS

- Observe the following components:
 - Left front door lock control switch
 - Telescoping mirror switch

Are all of the non-dimmable components observed inoperative?

Yes	GO to G4
No	GO to G5

G4 CHECK THE DDM (DRIVER DOOR MODULE) NON-DIMMABLE VOLTAGE SUPPLY AND GROUND CIRCUITS FOR AN OPEN (MULTIPLE SWITCHES)

- Ignition OFF.
- Disconnect Left Front Door Lock Control Switch [C505](#) (without memory).
- Disconnect Left Front Door Lock Control Switch [C541](#) (with memory).
- Disconnect DDM [C501A](#) .
- Measure

DRIVER DOOR MODULE (DDM)	DOOR LOCK SWITCH, LEFT FRONT
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Left Front Door Lock Control Switch (without memory)

Positive Lead	Measurement / Action	Negative Lead
C501A-15	Ω	C505-4
C501A-17	Ω	C505-2

DRIVER DOOR MODULE (DDM)	DOOR LOCK SWITCH, LEFT FRONT
--------------------------	------------------------------

Left Front Door Lock Control Switch (with memory)

Positive Lead	Measurement / Action	Negative Lead
C501A-15	Ω	C541-2
C501A-17	Ω	C541-6

Are the resistances less than 3 ohms?

Yes	GO to G9
No	REPAIR the circuit in question.

G5 CHECK THE NON-DIMMABLE COMPONENT VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect the suspect non-dimmable component.
- Ignition ON.
- Measure:

DOOR LOCK SWITCH, LEFT FRONT	
------------------------------	--

Left Front Door Lock Control Switch (without memory)

Positive Lead	Measurement / Action	Negative Lead
C505-4		Ground

DOOR LOCK SWITCH, LEFT FRONT	
------------------------------	---

Left Front Door Lock Control Switch (with memory)

Positive Lead	Measurement / Action	Negative Lead
C541-2		Ground

TELESCOPING EXTERIOR REAR VIEW MIRROR SWITCH	
--	--

Telescoping Mirror Switch

Positive Lead	Measurement / Action	Negative Lead
C577-2		Ground

Is the voltage greater than 11 volts?

Yes	GO to G6
No	REPAIR the circuit.

G6 CHECK THE NON-DIMMABLE COMPONENT GROUND CIRCUIT FOR AN OPEN

- Measure:

DOOR LOCK SWITCH, LEFT FRONT

Left Front Door Lock Control Switch (without memory)

Positive Lead	Measurement / Action	Negative Lead
C505-4		C505-2

DOOR LOCK SWITCH, LEFT FRONT

Left Front Door Lock Control Switch (with memory)

Positive Lead	Measurement / Action	Negative Lead
C541-2		C541-6

TELESCOPING EXTERIOR REAR VIEW MIRROR SWITCH

Telescoping Mirror Switch

Positive Lead	Measurement / Action	Negative Lead
C577-2		C577-1

Is the voltage greater than 11 volts?

Yes	INSTALL a new component in question. REFER to: Front Door Lock Control Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	REPAIR the circuit.

G7 CHECK FOR VOLTAGE TO THE DOOR LOCK CONTROL SWITCH

- Ignition OFF.
- Disconnect Left Front Door Lock Control Switch [C505](#) (without memory).
- Disconnect Left Front Door Lock Control Switch [C541](#) (with memory).
- Ignition ON.
- Connect:

DOOR LOCK SWITCH, LEFT FRONT

Left Front Door Lock Control Switch (without memory)

Positive Lead	Measurement / Action	Negative Lead
C505-4		C505-2

DOOR LOCK SWITCH, LEFT FRONT

Left Front Door Lock Control Switch (without memory)

Positive Lead	Measurement / Action	Negative Lead
C541-2		C541-6

Is the voltage greater than 11 volts?

Yes	INSTALL a new door lock control switch. REFER to: Front Door Lock Control Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to G8

G8 CHECK THE DDM (DRIVER DOOR MODULE) NON-DIMMABLE VOLTAGE SUPPLY AND GROUND CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect DDM [C501A](#) .
- Measure

DRIVER DOOR MODULE (DDM)	DOOR LOCK SWITCH, LEFT FRONT
--------------------------	------------------------------

Left Front Door Lock Control Switch (without memory)

Positive Lead	Measurement / Action	Negative Lead
C501A-15	Ω	C505-4
C501A-17	Ω	C505-2

DRIVER DOOR MODULE (DDM)	DOOR LOCK SWITCH, LEFT FRONT
--------------------------	------------------------------

Left Front Door Lock Control Switch (with memory)

Positive Lead	Measurement / Action	Negative Lead
C501A-15	Ω	C541-2
C501A-17	Ω	C541-6

Are the resistances less than 3 ohms?

Yes	GO to G9
No	REPAIR the circuit in question.

G9 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

- Disconnect and inspect all the DDM 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 all the DDM and related in-line connectors and make sure they seat and latch correctly.
- Operate the system to 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.

☐ PINPOINT TEST H : ONE OR MORE PDM (PASSENGER DOOR MODULE) NON-DIMMABLE CONTROLLED ILLUMINATION SOURCE IS INOPERATIVE

Refer to Wiring Diagrams Cell [100](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - Overview (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
PDM U2010:11	Switch Illumination: Circuit Short To Ground	Sets when the PDM detects a short to ground from the non-dimmable switch illumination output.

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- Right front window control switch
- Right front door lock control switch
- PDM

H1 CHECK FOR PDM (PASSENGER DOOR MODULE) NETWORK COMMUNICATION

- Ignition ON.
- Using a diagnostic scan tool, carry out a network test.

Does the PDM pass the network test?

Yes	If equipped with a window control switch, GO to H2 If not equipped with a window control switch, GO to H6
No	REFER to: Communications Network - System Operation and Component Description (418-00 Module Communications Network, Description and Operation).

H2 CHECK THE ILLUMINATION OF ALL THE NON-DIMMABLE COMPONENTS

- Observe the following components:
 - Right front window control switch
 - Right front door lock control switch

Are all of the dimmable components observed inoperative?

Yes	GO to H3
No	GO to H4

H3 CHECK THE PDM (PASSENGER DOOR MODULE) NON-DIMMABLE VOLTAGE SUPPLY AND GROUND CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect Right Front Door Lock Control Switch [C605](#) .
- Disconnect PDM [C652A](#) .
- Measure

PASSENGER DOOR MODULE (PDM)	DOOR LOCK SWITCH, RIGHT FRONT
-----------------------------	-------------------------------

Positive Lead	Measurement / Action	Negative Lead
C652A-15	Ω	C605-1
C652A-17	Ω	C605-3

Are the resistances less than 3 ohms?

Yes	GO to H8
No	REPAIR the circuit in question.

H4 CHECK THE NON-DIMMABLE COMPONENT VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect the suspect non-dimmable component.
- Ignition ON.
- Measure:

WINDOW CONTROL SWITCH, RIGHT FRONT	
------------------------------------	--

Right Front Window Control Switch

Positive Lead	Measurement / Action	Negative Lead
C604-4		Ground

DOOR LOCK SWITCH, RIGHT FRONT	
-------------------------------	--

Right Front Door Lock Control Switch

Positive Lead	Measurement / Action	Negative Lead
C605-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to H5
No	REPAIR the circuit.

H5 CHECK THE NON-DIMMABLE COMPONENT GROUND CIRCUIT FOR AN OPEN

- Measure:

WINDOW CONTROL SWITCH, RIGHT FRONT

Right Front Window Control Switch

Positive Lead	Measurement / Action	Negative Lead
C604-4		C604-6

DOOR LOCK SWITCH, RIGHT FRONT

Right Front Door Lock Control Switch

Positive Lead	Measurement / Action	Negative Lead
C605-1		C605-3

Is the voltage greater than 11 volts?

Yes	INSTALL a new component in question. REFER to: Front Door Window Control Switch - Vehicles With: Front Power Windows (501-11 Glass, Frames and Mechanisms, Removal and Installation). REFER to: Front Door Lock Control Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	REPAIR the circuit.

H6 CHECK THE PDM (PASSENGER DOOR MODULE) NON-DIMMABLE OUTPUT CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Right Front Door Lock Control Switch [C605](#) .
- Ignition ON.
- Connect:

DOOR LOCK SWITCH, RIGHT FRONT

Positive Lead	Measurement / Action	Negative Lead
C605-1		C605-3

Is the voltage greater than 11 volts?

Yes	INSTALL a new right front door lock control switch. REFER to: Front Door Lock Control Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to H7

H7 CHECK THE PDM (PASSENGER DOOR MODULE) NON-DIMMABLE VOLTAGE SUPPLY AND GROUND CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect PDM [C652A](#) .
- Measure

PASSENGER DOOR MODULE (PDM)	DOOR LOCK SWITCH, RIGHT FRONT
-----------------------------	-------------------------------

Positive Lead	Measurement / Action	Negative Lead
C652A-15	Ω	C605-1
C652A-17	Ω	C605-3

Are the resistances less than 3 ohms?

Yes	GO to H8
No	REPAIR the circuit in question.

H8 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect and inspect all the PDM 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 all the PDM and related in-line connectors and make sure they seat and latch correctly.
- Operate the system to 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.

☐ [PINPOINT TEST I: THE DDM \(DRIVER DOOR MODULE\) OR THE PDM \(PASSENGER DOOR MODULE\) CONTROLLED ILLUMINATION IS ALWAYS ON](#)

Refer to Wiring Diagrams Cell [100](#) for schematic and connector information.

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

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- PDM
- DDM

I1 VERIFY THE ALWAYS ON CONDITION

- Ignition OFF.
- Observe the left or right front door lock control switch.
- Open the driver door.

Does the left or right front door lock control switch continue to illuminate?

Yes	GO to I2
No	The system is operating correctly. INFORM the customer of the non-dimmable illumination operation.

I2 CHECK THE ILLUMINATION OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect DDM [C501A](#) (left front door lock control switch always on).
- Disconnect PDM [C652A](#) (right front door lock control switch always on).

Does the left or right front door lock control switch continue to illuminate?

Yes	REPAIR the circuit.
No	GO to I3

I3 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) / PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect and inspect all the DDM/ PDM 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/ PDM and related in-line connectors and make sure they seat and latch correctly.
- Operate the system to 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/ PDM. REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation). 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.

PINPOINT TEST J : THE REAR DOOR WINDOW CONTROL SWITCH ILLUMINATION IS INOPERATIVE

Refer to Wiring Diagrams Cell [100](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Rear door window control switch

J1 VERIFY THE REAR DOOR WINDOW CONTROL SWITCH FUNCTIONALITY

- Actuate the power window from the driver front door window control switch and the suspect rear door window control switch.

Does the rear door window operate normally?

Yes	INSTALL a new window switch. For super cab, REFER to: Rear Door Window Control Switch - Super Cab, Vehicles With: Rear Power Windows (501-11 Glass, Frames and Mechanisms, Removal and Installation). For crew cab, REFER to: Rear Door Window Control Switch - Crew Cab, Vehicles With: Rear Power Windows (501-11 Glass, Frames and Mechanisms, Removal and Installation).
No	REFER to: Glass, Frames and Mechanisms (501-11 Glass, Frames and Mechanisms, Diagnosis and Testing).

PINPOINT TEST K : THE POWER SLIDING WINDOW CONTROL SWITCH ILLUMINATION IS INOPERATIVE

Refer to Wiring Diagrams Cell [100](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Power sliding window concern
- Wiring, terminals or connectors
- Power sliding window control switch

K1 CHECK THE POWER SLIDING WINDOW OPERATION

- Ignition ON.
- Check the power sliding window operation.

Does the power sliding window operate?

Yes	GO to K2
No	REFER to: Glass, Frames and Mechanisms (501-11 Glass, Frames and Mechanisms, Diagnosis and Testing).

K2 CHECK THE POWER SLIDING WINDOW CONTROL SWITCH GROUND CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Power Sliding Window Control Switch [C980](#).
- Ignition ON.
- Measure:

POWER SLIDING WINDOW SWITCH, REAR

Positive Lead	Measurement / Action	Negative Lead
C980-1		C980-6

Is the voltage greater than 11 volts?

Yes	INSTALL a new power sliding window control switch.
No	REPAIR the circuit.

PINPOINT TEST L : THE IPC (INSTRUMENT PANEL CLUSTER) ILLUMINATION IS INOPERATIVE OR DOES NOT DIM

Refer to Wiring Diagrams Cell [60](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- IPC

L1 PERFORM A NETWORK TEST

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

Does the IPC pass the network test?

Yes	GO to L2
No	DIAGNOSE a concern with the network. REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).

L2 CHECK FOR CORRECT IPC (INSTRUMENT PANEL CLUSTER) OPERATION

- Disconnect and inspect all IPC 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 IPC and related in-line connectors and all previously disconnected illumination system connectors. Make sure all connectors seat and latch correctly.
- Operate the system to 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 IPC. REFER to: Instrument Panel Cluster (IPC) (413-01 Instrumentation, Message Center and Warning Chimes, 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.

PINPOINT TEST M : THE FCIM (FRONT CONTROLS INTERFACE MODULE) ILLUMINATION IS INOPERATIVE OR DOES NOT DIM

Refer to Wiring Diagrams Cell [131](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- FCIM

M1 PERFORM A NETWORK TEST

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

Does the FCIM pass the network test?

Yes	GO to M2
No	DIAGNOSE a concern with the network. REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).

M2 CHECK FOR CORRECT FCIM (FRONT CONTROLS INTERFACE MODULE) OPERATION

- Disconnect and inspect all FCIM 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 FCIM and related in-line connectors and all previously disconnected illumination system connectors. Make sure all connectors seat and latch correctly.
- Operate the system to 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 (FCIM) .
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.

☐ [PINPOINT TEST N : THE FDIM \(FRONT DISPLAY INTERFACE MODULE\) ILLUMINATION IS INOPERATIVE OR DOES NOT DIM](#)

Refer to Wiring Diagrams Cell [131](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Instrument Panel and Interior Switches Illumination - System Operation and Component Description (413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- APIM
- FDIM

N1 PERFORM A NETWORK TEST

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

Does the ACM and the APIM pass the network test?

Yes	GO to N2
No	DIAGNOSE a concern with the network. REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).

N2 PERFORM A TEST OF THE AUDIO SYSTEM FROM THE FDIM (FRONT DISPLAY INTERFACE MODULE)

- VERIFY that the audio system can be operated from the FDIM.

Does the audio system responds normally to FDIM inputs?

Yes	GO to N3
No	REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information, Diagnosis and Testing).

N3 CHECK FOR CORRECT FDIM (FRONT DISPLAY INTERFACE MODULE) OPERATION

- Disconnect and inspect all FDIM 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 FDIM and related in-line connectors and all previously disconnected illumination system connectors. Make sure all connectors seat and latch correctly.
- Operate the system to 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 (FDIM) .
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.

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