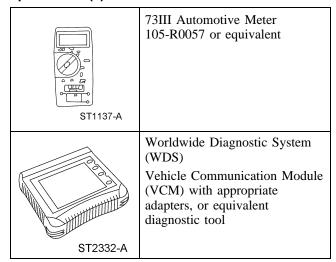
DIAGNOSIS AND TESTING

Instrument Cluster and Panel Illumination

Refer to Wiring Diagrams Cell 71, Instrument Illumination for schematic and connector information.

Special Tool(s)



Principles of Operation

When the headlamp switch is in the parking lamps or headlamps ON position, synchronized dimming of the backlights and displays occur with the instrument panel dimmer switch.

The instrument panel dimmer switch allows the brightness level of the dimmable backlights and displays to be adjusted.

Both the headlamp switch and the instrument panel dimmer switch communicate a signal to the smart junction box (SJB) which supplies voltage to the dimmable and non-dimmable backlights.

The SJB communicates with the instrument cluster through the controller are network (CAN). The instrument cluster then increases or decreases the intensity of the instrument cluster backlighting accordingly.

Fault Management

The dimmable backlighting defaults to full intensity if the instrument panel dimmer switch or circuitry fails.

Inspection and Verification

- 1. Verify the customer concern.
- 2. Visually inspect for obvious signs of mechanical or electrical damage.

Visual Inspection Chart

Mechanical	Electrical
Instrument panel dimmer switch	Bussed electrical center (BEC) fuse(s): 44 (10A) 59 (30A) 67 (30A) Smart junction box (SJB) fuse 19 (5A) Miniature bulb(s) Circuitry Accessory delay relay Instrument cluster Headlamp switch

- 3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
- 4. If the cause is not visually evident, connect the diagnostic tool to the data link connector (DLC) and select the vehicle to be tested from the diagnostic tool menu. If the diagnostic tool does not communicate with the vehicle:
 - check that the program card is correctly installed.
 - check the connections to the vehicle.
 - check the ignition switch position.
- 5. If the diagnostic tool still does not communicate with the vehicle, refer to the diagnostic tool operating manual.
- 6. Carry out the diagnostic tool data link test. If the diagnostic tool responds with:
 - CAN circuits fault; all electronic control units no response/not equipped, refer to Section 418-00.
 - No response/not equipped for the smart junction box (SJB), refer to Section 419-10.
 - No response/not equipped for the instrument cluster, refer to Section 413-01.
 - System passed, retrieve and record the continuous diagnostic trouble codes (DTCs), erase the continuous DTCs, and carry out self-test diagnostics for the smart junction box (SJB) and the instrument cluster.
- 7. If the DTCs retrieved are related to the concern and are from the SJB, go to the Smart Junction Box (SJB) Diagnostic Trouble Code (DTC) Index.

- 8. If the DTCs retrieved are related to the concern and are from the instrument cluster, refer to Section 413-01.
- 9. If no DTCs related to the concern are retrieved, GO to Symptom Chart.

Smart Junction Box (SJB) Diagnostic Trouble Code (DTC) Index

DTC	Description	Source	Action
B1247	Instrument Panel Dimmer Switch Circuit Open	SJB	GO to Pinpoint Test B.
B1342	ECU is Faulted	SJB	DOCUMENT and CLEAR the DTCs. REPEAT the self-test. If DTC B1342 is retrieved again, INSTALL a new SJB. REFER to Section 419-10.
B2027	LED Backlighting Output Circuit Failure	SJB	GO to Pinpoint Test C.
B2132	Dimmer Switch Circuit Short To Ground	SJB	GO to Pinpoint Test B.
B2477	Module Configuration Failure	SJB	DOCUMENT and CLEAR the DTCs. REPEAT the self-test. If DTC B2477 is retrieved again, REFER to Section 418-01.
U1900	CAN Communication Bus Fault - Receive Error	SJB	DOCUMENT and CLEAR the DTCs. REPEAT the self-test. If DTC U1900 is retrieved again, REFER to Section 418-00.
All Other DTCs		SJB	REFER to Section 419-10.

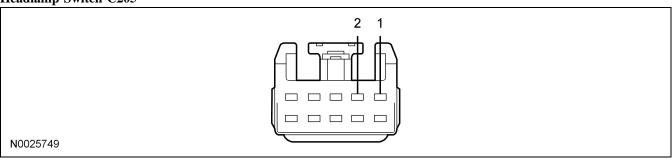
Symptom Chart

Symptom Chart

Condition	Possible Sources	Action
• The control illumination is inoperative	CircuitryHeadlamp switch	GO to Pinpoint Test A.
The instrument cluster illumination is inoperative	 Circuitry Instrument cluster 	CHECK the operation of other backlighting components. If the other backlighting components operate correctly, INSTALL a new instrument cluster. REFER to Section 413-01. TEST the system for normal operation. If other backlighting components are inoperative, GO to Pinpoint Test A.
The instrument panel illumination does not dim	 Circuitry Instrument panel dimmer switch Smart junction box (SJB) 	GO to Pinpoint Test B.
One or more smart junction box (SJB) controlled illumination source(s) is inoperative	CircuitrySJB	GO to Pinpoint Test C.

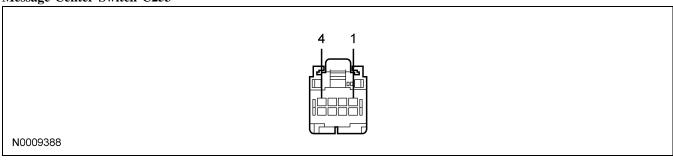
Connector Circuit Reference

Headlamp Switch C205



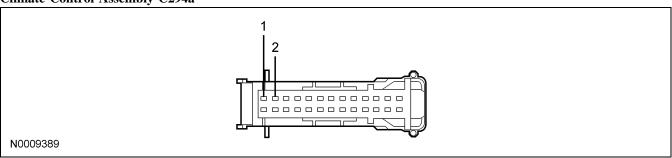
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) illumination ground	Less than 5 ohms between the headlamp switch and ground.
2	2023 (YE/LB) headlamps switch illumination	Variable voltage. Less than 5 ohms between the headlamp switch and the smart junction box (SJB). Greater than 10,000 ohms between the headlamp switch and ground.

Message Center Switch C253



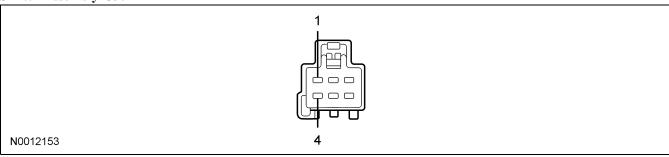
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	2030 (YE/WH) message center switch illumination	Variable voltage. Less than 5 ohms between the message center switch and the smart junction box (SJB). Greater than 10,000 ohms between the message center switch and ground.
4	1205 (BK) illumination ground	Less than 5 ohms between the message center switch and ground.

Climate Control Assembly C294a



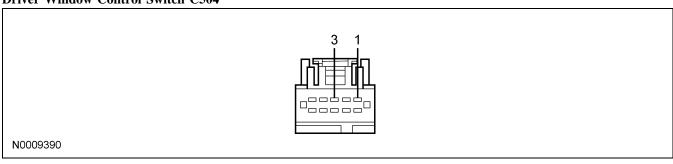
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) illumination ground	Less than 5 ohms between the climate control assembly and ground.
2	1425 (GY/WH) climate control assembly illumination	Variable voltage. Less than 5 ohms between the climate control assembly and the smart junction box (SJB). Greater than 10,000 ohms between the climate control assembly and ground.

Shifter Assembly C307



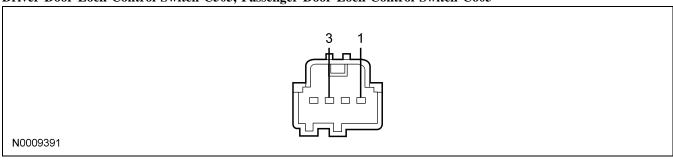
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) shifter assembly illumination ground	Less than 5 ohms between the shifter assembly and ground.
4	19 (LB/RD) shifter assembly illumination	Variable voltage. Less than 5 ohms between the shifter assembly and the smart junction box (SJB). Greater than 10,000 ohms between the shifter assembly and ground.

Driver Window Control Switch C504



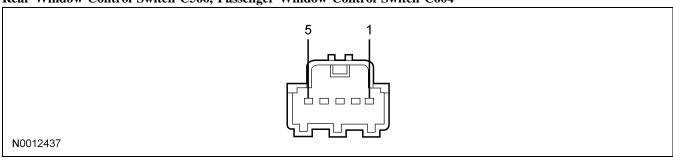
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) window control switch illumination ground	Less than 5 ohms between the driver window control switch and ground.
3	985 (RD/LB) driver window control switch illumination voltage	Greater than 10 volts with the headlamp switch in the PARK or ON position. Less than 5 ohms between the driver window control switch and the smart junction box (SJB). Greater than 10,000 ohms between the driver window control switch and ground.

Driver Door Lock Control Switch C505, Passenger Door Lock Control Switch C605



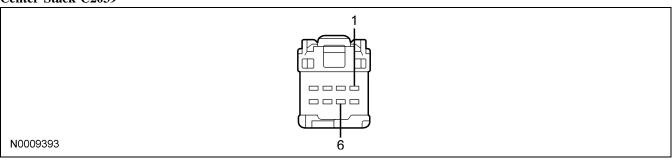
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) door lock control switch illumination ground	Less than 5 ohms between the door lock control switch and ground.
3 (C505)	985 (RD/LB) driver door lock control switch illumination voltage	Greater than 10 volts with the headlamp switch in the PARK or ON position. Less than 5 ohms between the driver door lock control switch and the smart junction box (SJB). Greater than 10,000 ohms between the driver door lock control switch and ground.
3 (C605)	984 (YE/LB) passenger door lock control switch illumination voltage	Greater than 10 volts with the headlamp switch in the PARK or ON position. Less than 5 ohms between the passenger door lock control switch and the SJB. Greater than 10,000 ohms between the passenger door lock control switch and ground.

Rear Window Control Switch C566, Passenger Window Control Switch C604



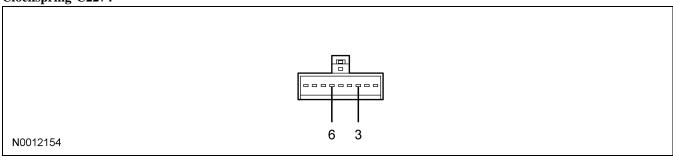
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) window control switch illumination ground	Less than 5 ohms between the window control switch and ground.
5 (C566)	333 (YE/RD) rear window control switch illumination voltage	Greater than 10 volts with the headlamp switch in the PARK or ON position. Less than 5 ohms between the rear window control switch and the smart junction box (SJB). Greater than 10,000 ohms between the rear window control switch and ground.
5 (C604)	984 (YE/LB) passenger window control switch illumination voltage	Greater than 10 volts with the headlamp switch in the PARK or ON position. Less than 5 ohms between the passenger window control switch and the SJB. Greater than 10,000 ohms between the passenger window control switch and ground.

Center Stack C2039



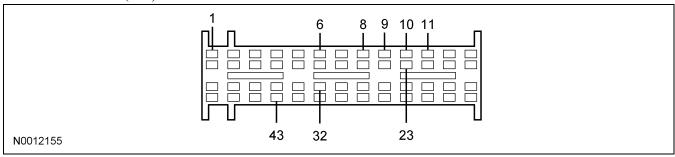
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) center stack illumination ground	Less than 5 ohms between the center stack and ground.
6	2029 (LB/WH) center stack illumination voltage	Variable voltage. Less than 5 ohms between the center stack and the smart junction box (SJB). Greater than 10,000 ohms between the center stack and ground.

Clockspring C2274



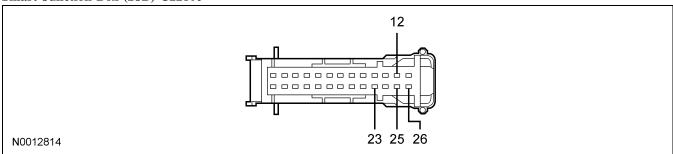
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
3	203 (OG/LB) steering wheel speed control switches illumination	Variable voltage. Less than 5 ohms between the clockspring and the smart junction box (SJB). Greater than 10,000 ohms between the clockspring and ground.
6	1205 (BK) steering wheel speed control switches illumination ground	Less than 5 ohms between the clockspring and ground.

Smart Junction Box (SJB) C2280b



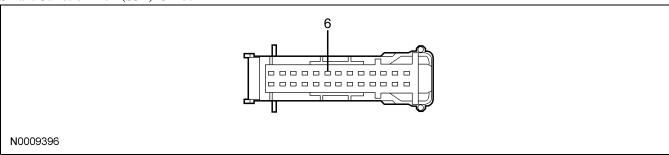
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement	
1	1405 (LB/BK) instrument panel dimmer switch signal return	Less than 5 ohms between the SJB and the instrument panel dimmer switch. Greater than 10,000 ohms between the SJB and ground.	
6	2023 (YE/LB) headlamp switch illumination	Less than 5 ohms between the SJB and the headlamp switch. Greater than 10,000 ohms between the SJB and ground.	
8	1403 (BK/WH) instrument panel dimmer switch illumination	Less than 5 ohms between the SJB and the instrument panel dimmer switch. Greater than 10,000 ohms between the SJB and ground.	
9	2030 (YE/WH) message center switch illumination	Less than 5 ohms between the SJB and the message center switch. Greater than 10,000 ohms between the SJB and ground.	
10 203 (OG/LB) steering wheel switches illumination		Less than 5 ohms between the SJB and the steering wheel switches. Greater than 10,000 ohms between the SJB and ground.	
11 2029 (LB/WH) center stack illumination		Less than 5 ohms between the SJB and the center stack. Greater than 10,000 ohms between the SJB and ground.	
23 1425 (GY/WH) climate control assembly illumination		Less than 5 ohms between the SJB and the climate control assembly. Greater than 10,000 ohms between the SJB and ground.	
32 1036 (BN/WH) instrument panel dimmer switch reference voltage		Less than 5 ohms between the SJB and the instrument panel dimmer switch. Greater than 10,000 ohms between the SJB and ground.	
43 1035 (OG/RD) instrument panel dimmer switch panel dim signal		0 volts. Less than 5 ohms between the SJB and the instrument panel dimmer switch. Greater than 10,000 ohms between the SJB and ground.	

Smart Junction Box (SJB) C2280e



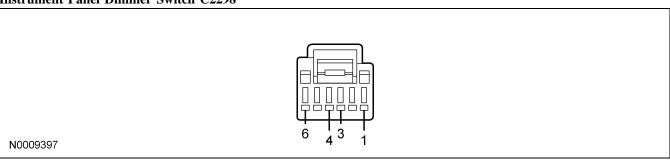
Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
12	19 (LB/RD) shifter assembly illumination	Variable voltage. Less than 5 ohms between the SJB and the shifter assembly. Greater than 10,000 ohms between the SJB and ground.
23	333 (YE/RD) rear window control switch illumination	Less than 5 ohms between the SJB and the rear window control switch. Greater than 10,000 ohms between the SJB and ground.
25	984 (YE/LB) passenger door lock control switch and passenger door window control switch illumination	Less than 5 ohms between the SJB and the passenger door lock control switch; and between the SJB and the passenger door window control switch. Greater than 10,000 ohms between the SJB and ground.
26	985 (RD/LB) driver door lock control switch and driver door window control switch illumination	Less than 5 ohms between the SJB and the driver door lock control switch; and between the SJB and the driver door window control switch. Greater than 10,000 ohms between the SJB and ground.

Smart Junction Box (SJB) C2280f



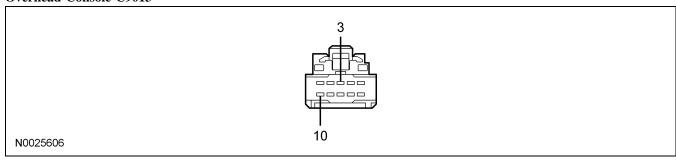
Pin Number(s) Circuit Designation/Description Normal Condition/		Normal Condition/Measurement
6	293 (OG/RD) overhead console illumination	Less than 5 ohms between the SJB and the overhead console. Greater than 10,000 ohms between the SJB and ground.

Instrument Panel Dimmer Switch C2298



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1036 (BN/WH) instrument panel dimmer switch reference voltage	Greater than 10 volts with the headlamp switch in the PARK or ON position. Less than 5 ohms between the instrument panel dimmer switch and the smart junction box (SJB). Greater than 10,000 ohms between the instrument panel dimmer switch and ground.
3	1403 (BK/WH) instrument panel dimmer switch illumination voltage	Variable voltage. Less than 5 ohms between the instrument panel dimmer switch and the SJB. Greater than 10,000 ohms between the instrument panel dimmer switch and ground.
4	1405 (LB/BK) instrument panel dimmer switch signal return	Less than 5 ohms between the instrument panel dimmer switch and the SJB. Greater than 10,000 ohms between the instrument panel dimmer switch and ground.
6	1035 (OG/RD) instrument panel dimmer switch panel dim signal	Less than 5 ohms between the instrument panel dimmer switch and the SJB. Greater than 10,000 ohms between the instrument panel dimmer switch and ground.

Overhead Console C9013



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
3	293 (OG/RD) overhead console illumination voltage	Variable voltage. Less than 5 ohms between the overhead console and the smart junction box (SJB). Greater than 10,000 ohms between the overhead console and ground.
10	1205 (BK) overhead console illumination ground	Less than 5 ohms between the overhead console and ground.

Pinpoint Test A: The Control Illumination is Inoperative

Normal Operation

When the headlamp switch is placed in the PARK or headlamp ON position, the smart junction box (SJB) supplies either a pulse width modulated (PWM) signal or 12 volts to the various backlighting sources in the instrument panel, doors and console.

Possible Causes

- exterior lighting system
- SJB

PINPOINT TEST A: THE CONTROL ILLUMINATION IS INOPERATIVE

	Test Step	Result / Action to Take
A1	CHECK THE PARKING LAMPS OPERATION	
	 Monitor the parking lamps in the OFF position and in the PARK position. Do the parking lamps operate correctly? 	Yes GO to A2. No REFER to Section 417-01 to continue diagnosis of the exterior lighting system.
A2	CHECK FOR CORRECT SJB OPERATION	
	 Disconnect all the SJB connectors. Check for: corrosion pushed-out pins 	Yes INSTALL a new SJB. REFER to Section 419-10. TEST the system for normal operation.
	 Connect all the SJB connectors and make sure they seat correctly. Operate the system and verify the concern is still present. Is the concern still present? 	No The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.

Pinpoint Test B: The Instrument Panel Illumination Does Not Dim

Normal Operation

When the parking lamp switch is placed in the PARK or headlamps ON position, a voltage signal is supplied to the instrument panel dimmer switch through circuit 1036 (BN/WH) from the smart junction box (SJB). The dimmer switch passes this voltage through a variable resister and then returns the signal to the SJB on circuit 1035 (OG/RD). The SJB uses the return signal to determine the backlighting intensity desired by the operator. A pulse width modulated (PWM) signal is sent from the SJB to each of the dimmable backlights, maintaining the operators desired level of lighting intensity.

The dimmable backlighting defaults to full intensity if the instrument panel dimmer switch or circuitry fails.

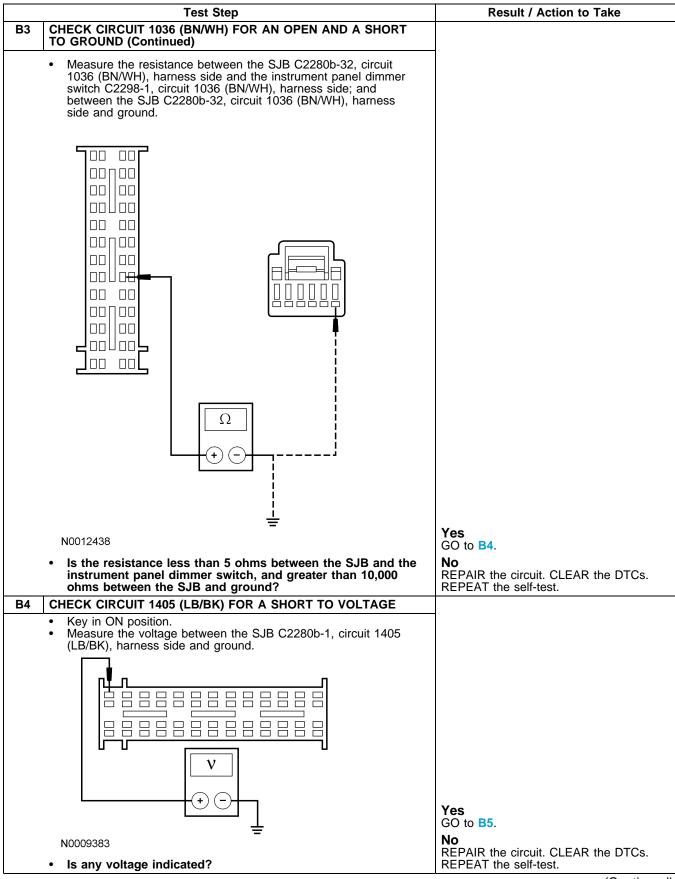
Possible Causes

- circuit 1035 (OG/RD) open, short to ground, or short to voltage
- circuit 1036 (BN/WH) open or short to ground
- circuit 1405 (LB/BK) short to voltage
- instrument panel dimmer switch
- SJB

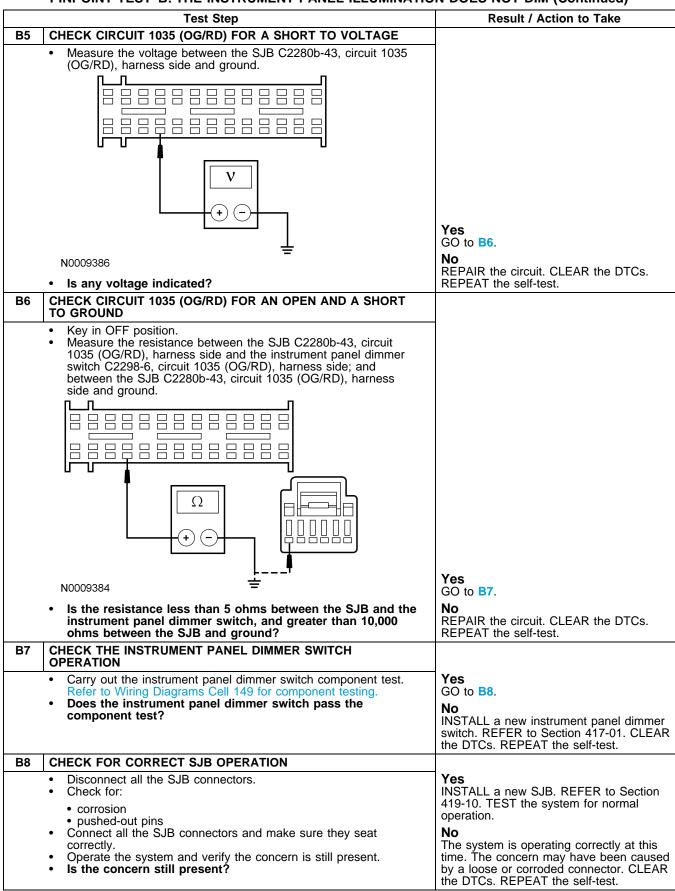
PINPOINT TEST B: THE INSTRUMENT PANEL ILLUMINATION DOES NOT DIM

	Test Step	Result / Action to Take
B1	MONITOR THE INSTRUMENT PANEL ILLUMINATION OPERATION	
	 Place the headlamp switch in the PARK position. Rotate the dimmer switch from maximum brightness to minimum brightness. Monitor all instrument panel illumination sources for correct operation. Do all the dimmable instrument panel illumination sources dim correctly? 	Yes The system is OK. No If only the instrument cluster does not dim, INSTALL a new instrument cluster. REFER to Section 413-01. TEST the system for normal operation. For all others, GO to B2.
B2	CHECK THE SMART JUNCTION BOX (SJB) INSTRUMENT PANEL DIMMER SWITCH PIDS	
	 Key in ON position. Enter the following diagnostic mode on the diagnostic tool: SJB Instrument Panel Dimmer Switch PIDs. Turn the headlamps to the PARK position. Monitor the SJB instrument panel dimmer switch PIDs while rotating the instrument panel dimmer switch from full OFF to full ON. Do the SJB instrument panel dimmer switch PIDs agree with the instrument panel dimmer switch position? 	Yes GO to B8. No GO to B3.
В3	CHECK CIRCUIT 1036 (BN/WH) FOR AN OPEN AND A SHORT TO GROUND	
	 Key in OFF position. Disconnect: SJB C2280b. Disconnect: Instrument Panel Dimmer Switch C2298. 	

PINPOINT TEST B: THE INSTRUMENT PANEL ILLUMINATION DOES NOT DIM (Continued)



PINPOINT TEST B: THE INSTRUMENT PANEL ILLUMINATION DOES NOT DIM (Continued)



Pinpoint Test C: One Or More Smart Junction Box (SJB) Controlled Illumination Source(s) Is Inoperative

Normal Operation

Dimmable Backlighting

When the headlamp lamp switch is placed in the PARK or headlamps ON position, a voltage signal is supplied to the instrument panel dimmer switch through circuit 1036 (BN/WH) from the smart junction box (SJB). The dimmer switch passes this voltage through a variable resister and then returns the signal to the SJB on circuit 1035 (OG/RD). The SJB uses the return signal to determine the backlighting intensity desired by the operator. A pulse width modulated (PWM) signal is sent from the SJB to each of the dimmable backlights maintaining the operator's desired level of lighting intensity.

Non-Dimable Backlighting

When the ignition switch is placed in the ACCY or the ON position, a voltage signal is supplied to the SJB. The SJB activates the accessory delay relay, supplying voltage to the non-dimmable backlights.

Possible Causes

- circuit 19 (LB/RD) open or short to ground
- circuit 1403 (BK/WH) open or short to ground
- circuit 2030 (YE/WH) open or short to ground
- circuit 293 (OG/RD) open or short to ground
- circuit 203 (OG/LB) open or short to ground
- circuit 2023 (YE/LB) open or short to ground
- circuit 2029 (LB/WH) open or short to ground
- circuit 985 (RD/LB) open or short to ground
- circuit 333 (YE/RD) open or short to ground
- circuit 984 (YE/LB) open or short to ground
- circuit 1425 (GY/WH) open or short to ground
- circuit 1205 (BK) open
- circuit 1405 (LB/BK) open
- illuminated component
- clockspring
- SJB
- · accessory delay relay
- speed control switch

PINPOINT TEST C: ONE OR MORE SMART JUNCTION BOX (SJB) CONTROLLED ILLUMINATION SOURCE(S) IS INOPERATIVE

	333K32(3) 13 M31 2KAT112	
	Test Step	Result / Action to Take
C1	CHECK THE INSTRUMENT PANEL ILLUMINATION OPERATION	
	 Key in ON position. Place the headlamp switch in the PARK position. Rotate the dimmer switch to the maximum brightness position. Monitor all instrument panel illumination sources for correct operation. Are all the instrument panel illumination sources inoperable? 	Yes GO to Pinpoint Test A. No If the inoperable illumination source(s) are non-dimmable, GO to C2. For all others GO to C6.
C2	CHECK THE NON-DIMMABLE BACKLIGHTING OPERATION	
	 Monitor all instrument panel illumination non-dimmable sources for correct operation. Are all the instrument panel non-dimmable illumination sources inoperable? 	Yes GO to C3. No GO to C4.
C3	CHECK THE ACCESSORY DELAY RELAY	
	 Key in OFF position. Carry out the accessory delay relay component test. Refer to Wiring Diagrams Cell 149 for component testing. Does the accessory delay relay pass the component test? 	Yes GO to C12. No INSTALL a new accessory delay relay. CLEAR the DTCs. REPEAT The self-test.
C4	CHECK CIRCUIT 984 (YE/LB), 985 (RD/LB), AND 333 (YE/RD) FOR AN OPEN AND A SHORT TO GROUND	
	 Key in OFF position. Disconnect: SJB C2280e. Disconnect: Suspect lamp. Measure the resistance between the SJB, harness side and the suspect lamp, harness side; and between the SJB, harness side and ground as follows: 	

PINPOINT TEST C: ONE OR MORE SMART JUNCTION BOX (SJB) CONTROLLED ILLUMINATION SOURCE(S) IS INOPERATIVE (Continued)

		DURCE(S) IS INC	PERATIVE (COI	
C4 CHECK CIRC	Test S	tep 985 (RD/LB), AND	333 (VE/DD)	Result / Action to Take
FOR AN OPE	EN AND A SHORT	T TO GROUND (Co	ntinued)	
Suspect				1
Lamp	SJB Connector-Pin	Lamp Connector-Pin	Circuit	
Driver Door	C2280e-26	C505-3	985 (RD/LB)	
Lock Control Switch	C2200C-20	C303-3	703 (RD/LD)	
Driver Door Window Control Switch	C2280e-26	C504-3	985 (RD/LB)	
Passenger Door Lock Control Switch	C2280e-25	C605-3	984 (YE/LB)	
Passenger Window Control Switch	C2280e-25	C604-5	984 (YE/LB)	
Rear Window Control Switch	C2280e-23	C566-5	333 (YE/RD)	Yes GO to C5.
• Measure t		PS CIRCUIT 1205		
Suspect Lamp Location	Lai Connec		Circuit	
Driver Door Loc Control Switch		05-1	1205 (BK)	
Driver Door Contr Switch	rol C50)4-1	1205 (BK)	
Passenger Door Lo Control Switch	ock C60	05-1	1205 (BK)	
Passenger Windo Control Switch		04-1	1205 (BK)	Yes INSTALL a new component in question.
Rear Window Con- Switch	trol C56	56-1	1205 (BK)	CLEAR the DTCs. REPEAT the self-test.
	istance less than			REPAIR the circuit in question. CLEAR the DTCs. REPEAT the self-test.
		KLIGHTING OPER		Yes
correct op	eration. e instrument pand	illumination dimmat		GO to C12. No GO to C7.
C7 CHECK THE	INOPERABLE LA	MP CIRCUIT FOR	VOLTAGE	
 Key in ON 	ct: Suspect Lamp. I position.			
Turn the h	neadlamp switch O	N.		(Continued)

PINPOINT TEST C: ONE OR MORE SMART JUNCTION BOX (SJB) CONTROLLED ILLUMINATION SOURCE(S) IS INOPERATIVE (Continued)

	Test Step	Result / Action to Take	
C7 CHECK THE INOF (Continued)	PERABLE LAMP CIRCUIT	FOR VOLTAGE	
position.	ument panel dimmer switc	•	
Suspect Lamp Location	Lamp Connector-Pin	Circuit	
Speed Control Switch	Steering Wheel Control Harness Connector	203 (OG/LB)	
Overhead Console	C9013-3	293 (OG/RD)	
Instrument Panel Dimmer Switch	C2298-3	1403 (BK/WH)	
Climate Control Head	C294a-2	1425 (GY/WH)	
Headlamp Switch	C205-2	2023 (YE/LB)	
Instrument Panel Center Switches	C2039-6	2029 (LB/WH)	Yes For the instrument panel dimmer switch,
Message Center	C253-1	2030 (YE/WH)	GO to C10. For all others, GO to C9.
Is the voltage	greater than 10 volts?		No GO to C8.
(BK/WH), 1425 (G	5 19 (LB/RD), 203 (OG/LB Y/WH), 2023 (YE/LB), 202 OPEN AND A SHORT TO	9 (LB/WH), AND 2030	
Key in OFF posDisconnect: SmDisconnect: SusMeasure the re	art Junction Box (SJB). spect lamp. sistance between the SJB, arness side; and between		(Continued

Switch

Instrument Panel Dimmer Switch Climate Control

> Assembly Headlamp

Switch Instrument

Panel Center

Switches Message Center

> Switch Shifter

Assembly (Automatic

DIAGNOSIS AND TESTING (Continued)

C2280b-8

C2280b-23

C2280b-6

C2280b-11

C2280b-9

C2280e-12

SJB and ground?

PINPOINT TEST C: ONE OR MORE SMART JUNCTION BOX (SJB) CONTROLLED ILLUMINATION

FI	NPOINT TE	SI C. ONE OK II	OURCE(S) IS INO	PERATIVE (Con	tinued)
		Test S	tep		Result / Action to Take
C8	(BK/WH), 14	425 (GY/WĤ), 2023 OR AN OPEN AND	, 203 (OG/LB), 293 (YE/LB), 2029 (LB A SHORT TO GRO	/WH), AND 2030	
	Suspect Lamp ocation	SJB Connector-Pin	Lamp Connector-Pin	Circuit	
	ed Control Switch	C2280b-10	Clockspring C2274-3	203 (OG/LB)	
Conv	ertible Top	C2280f-6	Overhead	293 (OG/RD)	

1403 (BK/WH)

1425 (GY/WH)

2023 (YE/LB)

2029 (LB/WH)

2030 (YE/WH)

19 (LB/RD)

Console C9013-3 C2298-3

C294a-2

C205-2

Center Stack

C2039-6

C253-1

C307-4

Transmission) Is the resistance less than 5 ohms between the SJB and the suspect lamp, and greater than 10,000 ohms between the

Yes GO to C12.

REPAIR the circuit in question. CLEAR the DTCs. REPEAT the self-test.

CHECK DIMMABLE LAMPS CIRCUIT 1205 (BK) FOR AN OPEN C9

Measure the resistance between the suspect lamp, harness side and ground as follows:

Suspect Lamp Location	Lamp Connector-Pin	Circuit
Speed Control Switch	Clockspring C2274-6	1205 (BK)
Convertible Top Switch	Overhead Console C9013-10	1205 (BK)
Climate Control Assembly	C294a-1	1205 (BK)
Headlamp Switch	C205-1	1205 (BK)
Instrument Panel Center Switches	Center Stack C2039-1	1205 (BK)
Message Center Switch	C253-4	1205 (BK)

For the speed control switch, GO to C11. For all others, INSTALL a new component. CLEAR the DTCs. REPEAT the self-test.

REPAIR the circuit in question. CLEAR the DTCs. REPEAT the self-test.

Is the resistance less than 5 ohms?

PINPOINT TEST C: ONE OR MORE SMART JUNCTION BOX (SJB) CONTROLLED ILLUMINATION SOURCE(S) IS INOPERATIVE (Continued)

