DIAGNOSIS AND TESTING

Interior Lighting

Refer to Wiring Diagrams Cell 89 for schematic and connector information.

Special Tool(s)

	73III Automotive Meter 105-R0057 or equivalent
ST1137-A	
	Worldwide Diagnostic System (WDS) Vehicle Communication Module (VCM) with appropriate adapters, or equivalent diagnostic tool
ST2332-A	

Principles of Operation

When the SJB detects a request for lighting, it turns on the interior lamps by supplying power to the lamps. The request for lighting can be an open door signal from a door ajar switch, an interior lighting on command from the instrument panel dimmer switch or an unlock command from a remote keyless entry (RKE) transmitter.

The door ajar switches are hard-wired directly to the SJB. The 2 door ajar switches are normally closed when the doors are closed. The decklid ajar switch is normally closed when the decklid is closed. All door ajar switches receive voltage from the SJB and each has its own ground circuit.

The instrument panel dimmer switch receives a ground signal from the SJB. The instrument panel dimmer switch provides variable resistance for backlighting the instrument cluster and a toggle ON/OFF function for the interior lights.

The RKE receiver is contained inside the SJB. When the SJB receives an unlock request from an RKE transmitter, it unlocks the doors and turns on the interior lamps.

Inspection and Verification

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

Visual Inspection Chart

Electrical

- Fuse(s)
 - / 1 1
- Circuitry open/shortedLoose or corroded connections
- Loose of confided connectLamp(s)
- Dimmer switch
- Diffiner switch
 Door ajar switches
- Smart junction box (SJB)
- 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 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:
 - SCP, ISO, CAN or UBP circuits fault; all electronic control units no response/not equipped, refer to Section 418-00.
 - No response/not equipped for SJB, REFER to Section 419-10.
 - System passed, retrieve and record the continuous diagnostic trouble codes (DTCs), erase the continuous DTCs and carry out self-test diagnostics for the SJB.
- 7. If the DTCs retrieved are related to the concern, go to the Smart Junction Box (SJB) Diagnostic Trouble Code (DTC) Index.
- 8. If no DTCs related to the concern are retrieved, GO to Symptom Chart.

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

DTC	Description	Action
B1084	Trunk Lamp Circuit Failure	If the trunk lamp is inoperative, GO to Pinpoint Test E. If the trunk lamp is always ON, GO to Pinpoint Test F.
B1319	Driver Door Ajar Circuit Failure	GO to Pinpoint Test D.
B1327	Passenger Door Ajar Circuit Failure	GO to Pinpoint Test D.
B2021	Dome Lamp Input Return Circuit Failure	GO to Pinpoint Test A.
B2550	Dome Lamp Output Circuit Short to Ground	GO to Pinpoint Test A.
B2554	Dome Lamp Output Circuit Failure	GO to Pinpoint Test D.

Symptom Chart

Symptom Chart

	Condition	Possible Sources	Action
•	The courtesy lamps are inoperative	 Fuse(s). Circuitry open/shorted. Door ajar switch. Lamp. Smart junction box (SJB). 	• GO to Pinpoint Test A.
•	The demand lamps are inoperative	Fuse(s).Circuitry open.Lamp.	• GO to Pinpoint Test B.
•	The interior lamps are inoperative using the dimmer control	Circuitry open.Dimmer control.Smart junction box (SJB).	• GO to Pinpoint Test C.
•	The interior lamps stay ON continuously	 Door ajar switch. Dimmer control. Circuitry open/shorted. Smart junction box (SJB). 	• GO to Pinpoint Test D.
•	The trunk lamp is inoperative	 Circuitry open/shorted. Lamp. Decklid ajar switch. Smart junction box (SJB). 	• GO to Pinpoint Test E.
•	The trunk lamp stays ON continuously	 Circuitry open/shorted. Decklid ajar switch. Smart junction box (SJB). 	• GO to Pinpoint Test F.
•	The illuminated entry is inoperative when using the remote keyless entry (RKE) transmitter/keyless entry keypad	• Smart junction box (SJB).	• GO to Pinpoint Test G.

Connector Circuit Reference

Driver Door Ajar Switch C526



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) Driver door ajar switch ground	Resistance of less than 5 ohms to chassis ground.
2	1312 (LG/BK) driver door ajar switch to SJB	Greater than 10 volts at all times.

Passenger Door Ajar Switch C602



A0072424

Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1205 (BK) passenger door ajar switch ground	Resistance of less than 5 ohms to chassis ground.
2	1314 (YE/LG) passenger door ajar switch to SJB	Greater than 10 volts at all times.

Decklid Ajar Switch C429



A0052497

Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	1351 (TN) decklid ajar switch to SJB	Greater than 10 volts at all times.
2	1205 (BK) decklid ajar switch ground	Resistance of less than 5 ohms to chassis ground.

Trunk Lamp C428



N0014690

Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
1	707 (WH/YE) trunk lamp voltage from the SJB	Greater than 10 volts when interior lamps are commanded ON.
2	1205 (BK) trunk lamp ground	Resistance of less than 5 ohms to chassis ground.

Overhead Console C930



N0014691

Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
3	1205 (BK) overhead console map lamp ground	Resistance of less than 5 ohms to chassis ground.
4	54 (LG/YE) overhead console courtesy/dome lamp switched ground	Resistance of less than 5 ohms to chassis ground when the courtesy lamps are commanded ON.
5	53 (BK/LB) overhead console dome/map lamp power	Greater than 10 volts when interior lamps are commanded ON.

Dimmer Control Switch C2298



N0006174

Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
5	2085 (VT/YE) dimmer switch interior lamp override to SJB	Greater than 10 volts with the ignition ON.

SJB C2280b



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
14	2085 (VT/YE) dimmer switch interior lamp override to SJB	Less than 5 ohms to chassis ground when the dimmer control is in the interior lamp position.

SJB C2280c



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
17	1351 (TN) decklid ajar switch to SJB	Less than 5 ohms to chassis ground with the liftgate or decklid closed.

SJB C2280e



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
2	1312 (LG/BK) driver door ajar switch to SJB	Less than 5 ohms to chassis ground with the door closed.
6	1314 (YE/LG) passenger door ajar switch to SJB	Less than 5 ohms to chassis ground with the door closed.
15	707 (WH/YE) trunk lamp power	Less than 100 ohms to chassis ground.

SJB 2280f



Pin Number(s)	Circuit Designation/Description	Normal Condition/Measurement
25	54 (LG/YE) overhead console courtesy/dome lamp switched ground	Greater than 10,000 ohms to chassis ground and 0 volts.
26	53 (BK/LB) overhead console dome/map lamp power	Greater than 10,000 ohms to chassis ground and 0 volts.

Pinpoint Tests

Pinpoint Test A: The Courtesy Lamps Are Inoperative

Normal Operation

Under normal operation, ground for the ajar switches is provided through circuit 1205 (BK). When any door is ajar, ground to the smart junction box (SJB) is interrupted. The SJB provides voltage to the lamps through circuit 53 (BK/LB). When any door is closed, ground is provided to the SJB through the circuits below.

- Driver door ajar switch, circuit 1312 (LG/BK).
- Passenger door ajar switch, circuit 1314 (YE/LG).

Possible Causes

- An open in circuit 53 (BK/LB) or 54 (LG/YE)
- A short to ground in circuit 53 (BK/LB), 1312 (LG/BK) or 1314 (YE/LG)
- A short to voltage in circuit 54 (LG/YE)
- Door ajar switch
- Lamp
- Smart junction box (SJB)

PINPOINT TEST A: THE COURTESY LAMPS ARE INOPERATIVE

Test Step	Result / Action to Take
A1 CHECK SMART JUNCTION BOX (SJB) DTCs	
 Key in ON position. Check the SJB for DTCs. Was DTC B2021 or B2550 present? 	Yes If DTC B2021, GO to A2. If DTC B2550, GO to A3. No GO to A4.
A2 CHECK CIRCUIT 54 (LG/YE) FOR A SHORT TO VOLTAGE	
 Key in OFF position. Disconnect: Overhead Console C930. Disconnect: Smart Junction Box (SJB) C2280f. Key in ON position. Measure the voltage between overhead console C930-4, circuit 54 (LG/YE) and ground. 	
	Yes REPAIR circuit 54 (LG/YE) for a short to voltage. TEST the system for normal
N0014696	operation.
Is voltage present?	GO to A11.
A3 CHECK CIRCUIT 53 (BK/LB) FOR A SHORT TO GROUND	
 Key in OFF position. Disconnect: Overhead Console C930. Disconnect: Smart Junction Box (SJB) C2280f. Measure the resistance between overhead console C930-5, circuit 53 (BK/LB) and ground. 	
	v
	GO to A11.
N0014697	No REPAIR circuit 53 (BK/LB) for a short to ground. TEST the system for normal
A4 CHECK THE DOOR AJAR SJB PIDs	
 Enter the following diagnostic mode on the diagnostic tool: Door Ajar SJB PIDs. Open all doors. Do the door ajar PIDs read open? 	Yes GO to A7. No GO to A5.
A5 CHECK THE DOOR AJAR SJB PIDs	
Key in OFF position.	

PINPOINT TEST A: THE COURTESY LAMPS ARE INOPERATIVE (Continued)

Test Step	Result / Action to Take
A5 CHECK THE DOOR AJAR SJB PIDs (Continued)	
 Disconnect: Door Ajar Switch (Driver) C526 or (Passenger) C602. Key in ON position. Enter the following diagnostic mode on the diagnostic tool: E Ajar SJB PIDs. Monitor the door ajar PIDs. Do the door ajar PIDs read open? 	Door Yes INSTALL a new door ajar switch. TEST the system for normal operation. No GO to A6.
A6 CHECK THE AJAR SIGNAL CIRCUIT FOR A SHORT TO GROUND	
 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280e. Disconnect: Door Ajar Switch (Driver) C526 or (Passenger) C602. Measure the resistance between ground and the: (driver door ajar switch indicated closed) driver front door ajar switch C526-2, circuit 1312 (LG/BK). (passenger door ajar switch indicated closed) passenge front door ajar switch C602-2, circuit 1314 (YE/LG). 	or r
€	Yes GO to A11. No REPAIR circuit 1312 (LG/BK) or 1314
 Is the resistance greater than 10,000 ohms? 	(YE/LG) for a short to ground. TEST the system for normal operation.
A7 CHECK CIRCUIT 53 (BK/LB) FOR VOLTAGE	
 Key in OFF position. Disconnect: Overhead Console C930. Key in ON position. Measure the voltage between overhead console C930-5, circ 53 (BK/LB) and ground. 	cuit
N0014699 Is the voltage greater than 10 volts?	Yes GO to A9. No GO to A8.
A8 CHECK CIRCUIT 53 (BK/LB) FOR AN OPEN	
 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280f. 	

PINPOINT TEST A: THE COURTESY LAMPS ARE INOPERATIVE (Continued)



PINPOINT TEST A: THE COURTESY LAMPS ARE INOPERATIVE (Continued)

	Test Step	Result / Action to Take
A11	CHECK THE SJB PINS AND CONNECTORS	
	 Disconnect all SJB module connectors. Check for: corrosion pushed-out pins Connect all SJB module connectors and make sure they seat correctly. Operate the system and verify the concern is still present. Is the concern still present? 	Yes INSTALL a new SJB. REFER to Section 419-10. TEST the system for normal operation. 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 Demand Lamps Are Inoperative

Possible Causes

• Lamp

• An open in circuit 1205 (BK)

Normal Operation

Under normal operation, the smart junction box (SJB) turns provides voltage to the demand lamps through circuit 53 (BK/LB). Ground for the demand lamps is provided through circuit 1205 (BK).

PINPOINT TEST B: THE DEMAND LAMPS ARE INOPERATIVE

	Test Step	Result / Action to Take
B1	CHECK CIRCUIT 1205 (BK) FOR AN OPEN	
	 Key in OFF position. Disconnect: Overhead Console C930. Measure the resistance between overhead console C930-3, circuit 1205 (BK) and ground. 	
		Yes
		GO to Pinpoint Test A.
	v-v-l] ÷	If the courtesy lamps operate correctly, INSTALL a new lamp. TEST the system for normal operation.
	N0014703	
	 Is the resistance less than 5 ohms? 	TEST the system for normal operation.

Pinpoint Test C: The Interior Lamps Are Inoperative Using The Dimmer Control

Normal Operation

Under normal operation, when the dimmer control is rotated to the interior lamp detent position, ground is provided to the smart junction box (SJB) through circuit 2085 (VT/YE).

Possible Causes

- An open in circuit 2085 (VT/YE)
- Smart junction box (SJB)
- Dimmer control switch

PINPOINT TEST C: THE INTERIOR LAMPS ARE INOPERATIVE USING THE DIMMER CONTROL

	Test Step	Result / Action to Take
C1	CHECK CIRCUIT 2085 (VT/YE) FOR AN OPEN	
	 Key in OFF position. Disconnect: Dimmer Control Switch C2298. Disconnect: Smart Junction Box (SJB) C2280b. 	
		(Continued)

2005 Mustang, 12/2004

PINPOINT TEST C: THE INTERIOR LAMPS ARE INOPERATIVE USING THE DIMMER CONTROL (Continued)

	Test Step	Result / Action to Take
C1	CHECK CIRCUIT 2085 (VT/YE) FOR AN OPEN (Continued)	
	 Measure the resistance between SJB C2280b-14, circuit 2085 (VT/YE) and dimmer control switch C2298-5, circuit 2085 (VT/YE). 	
		Yes CARRY OUT the dimmer control/interior lamp switch component test. If OK, GO to C2.
	N0014704Is the resistance less than 5 ohms?	No REPAIR circuit 2085 (VT/YE) for an open. TEST the system for normal operation.
C2	CHECK THE SJB PINS AND CONNECTORS	
	 Disconnect all SJB module connectors. Check for: corrosion pushed-out pins Connect all SJB module connectors and make sure they seat correctly. Operate the system and verify the concern is still present. Is the concern still present? 	Yes INSTALL a new SJB. REFER to Section 419-10. TEST the system for normal operation. No The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.

Pinpoint Test D: The Interior Lamps Stay On Continuously

Under normal operation, ground for the ajar

switches is provided through circuit 1205 (BK).

When any door is ajar, ground to the smart junction

Possible Causes

- An open in circuit 1205 (BK), 1312 (LG/BK) or 1314 (YE/LG)
- A short to ground in circuit 2085 (VT/YE) or 54 (LG/YE)
- A short to voltage in circuit 53 (BK/LB), 1312 (LG/BK) or 1314 (YE/LG)
- Door ajar switch
- Dimmer control switch
- Smart junction box (SJB)
- box (SJB) is interrupted. The SJB provides voltage to the larger through a require 52 (DK/LP). When the

Normal Operation

to the lamps through circuit 53 (BK/LB). When the dimmer control is rotated to the interior lamp detent position, ground is provided to the smart junction box (SJB) through circuit 2085 (VT/YE). When any door is closed, ground is provided to the SJB through the circuits below.

- Driver door ajar switch, circuit 1312 (LG/BK).
- Passenger door ajar switch, circuit 1314 (YE/LG).

	Test Step	Result / Action to Take
D1	CHECK THE SMART JUNCTION BOX (SJB) DTCs	
	 Key in ON position. Check the SJB for DTCs. Was DTC B1319, B1327 or B2554 present? 	Yes If DTC B1319 or B1327, GO to D2. If DTC B2554, GO to D6.
		No GO to D7.
		(Continued)

PINPOINT TEST D: THE INTERIOR LAMPS STAY ON CONTINUOUSLY

PINPOINT TEST D: THE INTERIOR LAMPS STAY ON CONTINUOUSLY (Continued)

Test Step	Result / Action to Take
D2 CHECK THE AJAR SIGNAL CIRCUITS FOR GROUND	
 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280e. Measure the resistance between ground and: For DTC B1319: SJB C2280e-2, circuit 1312 (LG/BK). For DTC B1327: SJB C2280e-6, circuit 1314 (YE/LG). 	
N0014705	Yes GO to D10. No GO to D3
D3 CHECK CIRCUIT 1205 (BK) FOR AN OPEN	
 Key in OFF position. Disconnect: Door Ajar Switch (Driver) C526 or (Passenger) C602. Measure the resistance between ground and: For DTC B1319: driver door ajar switch C526-1, circuit 1205 (BK). For DTC B1327: passenger door ajar switch C602-1, circuit 1205 (BK). 	
N0014706	Yes GO to D4. No REPAIR circuit 1205 (BK) for an open.
Is the resistance less than 5 ohms?	IESI the system for normal operation.
VOLTAGE	
Key in ON position.]

PINPOINT TEST D: THE INTERIOR LAMPS STAY ON CONTINUOUSLY (Continued)

Test Step	Result / Action to Take
D4 CHECK THE AJAR SIGNAL CIRCUITS FOR A SHORT TO VOLTAGE (Continued)	
 Measure the voltage between ground and: For DTC B1319: driver door ajar switch C526-2, circuit 1312 (LG/BK). For DTC B1327: passenger door ajar switch C602-2, circuit 1314 (YE/LG). 	
N0014707	Yes REPAIR circuit 1312 (LG/BK) or 1314 (YE/LG) for a short to voltage. TEST the system for normal operation. No
Is voltage present?	GO to D5.
 Key in OFF position. Measure the resistance between: For DTC B1319: SJB C2280e-2, circuit 1312 (LG/BK) and driver front door ajar switch C526-2, circuit 1312 (LG/BK). For DTC B1327: SJB C2280e-6, circuit 1314 (YE/LG) and passenger front door ajar switch C602-2, circuit 1314 (YE/LG). 	
	Yes INSTALL a new door ajar switch. TEST
 N0014708 Is the resistance less than 5 ohms? 	the system for normal operation. No REPAIR circuit 1312 (LG/BK) or 1314 (YE/LG) for an open. TEST the system for normal operation.
D6 CHECK CIRCUIT 53 (BK/LB) FOR A SHORT TO VOLTAGE	
 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280f. Disconnect: Overhead Console C930. Key in ON position. 	

PINPOINT TEST D: THE INTERIOR LAMPS STAY ON CONTINUOUSLY (Continued)

	Test Sten	Result / Action to Take
D6	CHECK CIRCUIT 53 (BK/LB) FOR A SHORT TO VOLTAGE	
	 Measure the voltage between overhead console C930-5, circuit 53 (BK/LB) and ground. 	
		Yes REPAIR circuit 53 (BK/LB) for a short to
	N0014699	voltage. TEST the system for normal operation.
	Is voltage present?	GO to D10.
D7	CHECK THE DOME LAMP SWITCH AJAR SJB PID	
	 Key in ON position. Enter the following diagnostic mode on the diagnostic tool: Dome Lamp Switch SJB PID. Close all doors and disengage the dome lamp override switch. 	Yes GO to D8. No
80	CHECK CIRCUIT 2085 (VT/YE) FOR A SHORT TO GROUND	
	 Key in OFF position. Disconnect: Dimmer Control C2298. Disconnect: Smart Junction Box (SJB) C2280b. Measure the resistance between the dimmer control C2298-5, circuit 2085 (VT/YE) and ground. 	
		Yes CARRY out the dimmer control/interior lamp switch component test. If OK, GO to
	N0014709 • Is the resistance greater than 10,000 ohms?	No REPAIR circuit 2085 (VT/YE) for a short to ground. TEST the system for normal operation.
D9	CHECK CIRCUIT 54 (LG/YE) FOR A SHORT TO GROUND	
	 Key in OFF position. Disconnect: Overhead Console C930. Disconnect: Smart Junction Box (SJB) C2280f. 	

PINPOINT TEST D: THE INTERIOR LAMPS STAY ON CONTINUOUSLY (Continued)

	Test Step	Result / Action to Take
D9	CHECK CIRCUIT 54 (LG/YE) FOR A SHORT TO GROUND (Continued)	
	 Measure the resistance between overhead console C930-4, circuit 54 (LG/YE) and ground. 	
		Yes GO to D10.
	N0014710Is the resistance greater than 10,000 ohms?	No REPAIR circuit 54 (LG/YE) for a short to ground. TEST the system for normal operation.
D10	CHECK THE SJB PINS AND CONNECTORS	
	 Disconnect all SJB module connectors. Check for: corrosion pushed-out pins Connect all SJB module connectors and make sure they seat correctly. Operate the system and verify the concern is still present. Is the concern still present? 	Yes INSTALL a new SJB. REFER to Section 419-10. TEST the system for normal operation. No The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.

Pinpoint Test E: The Trunk Lamp Is Inoperative

Normal Operation

Under normal operation, ground for the ajar switches is provided through circuit 1205 (BK). When the decklid is ajar, ground to the smart junction box (SJB) is interrupted. The SJB provides voltage to the lamps through circuit 707 (WH/YE). When any door is closed, ground is provided to the SJB through the circuit 1351 (TN).

Possible Causes

- An open in circuit 1205 (BK) or 707 (WH/YE)
- A short to ground in circuit 1351 (TN) or 707 (WH/YE)
- Decklid ajar switch
- Smart junction box (SJB)

PINPOINT TEST E: THE TRUNK LAMP IS INOPERATIVE

Test Step		Result / Action to Take
E1	CHECK SMART JUNCTION BOX (SJB) DTCs	
	 Key in ON position. Check the SJB for DTCs. Was DTC B1084 present? 	Yes GO to E2. No GO to E6.
E2	CHECK CIRCUIT 1205 (BK) FOR AN OPEN	
	Key in OFF position.Disconnect: Trunk Lamp C428.	

PINPOINT TEST E: THE TRUNK LAMP IS INOPERATIVE (Continued)



PINPOINT TEST E: THE TRUNK LAMP IS INOPERATIVE (Continued)

Test Step	Result / Action to Take
E5 CHECK CIRCUIT 707 (WH/YE) FOR AN OPEN	
 Measure the resistance between trunk lamp C428-1, circuit 707 (WH/YE) and SJB C2280e-15, circuit 707 (WH/YE). 	
Image: Notified and the resistance less than 5 ohms?	Yes GO to E9. No REPAIR circuit 707 (WH/YE) for an open. TEST the system for normal operation.
E6 CHECK THE DECKLID AJAR SJB PID	
 Enter the following diagnostic mode on the diagnostic tool: Decklid Ajar SJB PID. Open the decklid. Does the decklid ajar PID read open? 	Yes GO to E9. No GO to E7.
E7 CHECK THE DOOR AJAR SJB PIDs	
 Key in OFF position. Disconnect: Decklid Ajar Switch C429. Key in ON position. Enter the following diagnostic mode on the diagnostic tool: Decklid Ajar SJB PID. Monitor the decklid ajar PID. Does the decklid ajar PID read open? 	Yes INSTALL a new decklid ajar switch. TEST the system for normal operation. No GO to E8.
E8 CHECK THE AJAR SIGNAL CIRCUIT FOR A SHORT TO GROUND	
 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280c. Measure the resistance between ground and decklid ajar switch C429-1, circuit 1351 (TN). 	
	Yes
	GO to E9.
	NO REPAIR circuit 1351 (TN) for a short to ground. TEST the system for normal
Is the resistance greater than 10,000 onms? Eq. CHECK THE S IB DINS AND CONNECTORS	operation.
 Disconnect all SJB module connectors. Check for: corrosion pushed-out pins Connect all SJB module connectors and make sure they seat correctly. Operate the system and verify the concern is still present. Is the concern still present? 	Yes INSTALL a new SJB. REFER to Section 419-10. TEST the system for normal operation. No The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.

Pinpoint Test F: The Trunk Lamp Stays On Continuously

Normal Operation

Under normal operation, ground for the ajar switches is provided through circuit 1205 (BK). When the decklid is ajar, ground to the smart junction box (SJB) is interrupted. The SJB provides voltage to the lamps through circuit 707 (WH/YE). When any door is closed, ground is provided to the SJB through the circuit 1351 (TN).

Possible Causes

- An open in circuit 1205 (BK) or 1351 (TN)
- A short to voltage in circuit 707 (WH/YE)
- Decklid ajar switch
- Smart junction box (SJB)

PINPOINT TEST F: THE TRUNK LAMP STAYS ON CONTINUOUSL
--

	Test Step	Result / Action to Take
F1	CHECK THE SMART JUNCTION BOX (SJB) DTCs	
	 Key in ON position. Check the SJB for DTCs. Was DTC B1084 present? 	Yes GO to F2. No GO to F3.
F2	CHECK CIRCUIT 707 (WH/YE) FOR A SHORT TO VOLTAGE	
	 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280e. Disconnect: Trunk Lamp C428. Key in ON position. Measure the voltage between trunk lamp C428-1, circuit 707 (WH/YE) and ground. 	Yes REPAIR circuit 707 (WH/YE) for a short to voltage. TEST the system for normal
	N0014/12	No
	Is voltage present?	GO to F7.
F3	CHECK THE AJAR SIGNAL CIRCUIT FOR GROUND	
	 Key in OFF position. Disconnect: Smart Junction Box (SJB) C2280c. 	

PINPOINT TEST F: THE TRUNK LAMP STAYS ON CONTINUOUSLY (Continued)



PINPOINT TEST F: THE TRUNK LAMP STAYS ON CONTINUOUSLY (Continued)

	Test Step	Result / Action to Take
F5	CHECK CIRCUIT 1205 (BK) FOR AN OPEN	
	 Measure the resistance between decklid ajar switch C429-2, circuit 1205 (BK) and ground. 	
		Yes
	T	GO to F6.
	N0014717	NO REPAIR circuit 1205 (BK) for an open.
	Is the resistance less than 5 ohms?	TEST the system for normal operation.
F6	CHECK THE AJAR SIGNAL CIRCUIT FOR AN OPEN	
	 Measure the resistance between SJB C2280c-17, circuit 1351 (TN) and decklid ajar switch C429-1, circuit 1351 (TN). 	
		Yes
	N0014718	No
	 Is the resistance less than 5 ohms? 	REPAIR circuit 1351 (TN) for an open.
F7	CHECK THE SJB PINS AND CONNECTORS	
	 Disconnect all SJB module connectors. Check for: corrosion pushed-out pins Connect all SJB module connectors and make sure they seat correctly 	Yes INSTALL a new SJB. REFER to Section 419-10. TEST the system for normal operation.
	 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 G: The Illuminated Entry is Inoperative

Possible Causes

• SJB

Normal Operation

Under normal operation, when the smart junction box (SJB) turns ON the interior lamps, it provides voltage to the courtesy lamps through circuit 53 (BK/LB). Ground for the lamps is provided through circuit 1205 (BK).

PINPOINT TEST G: THE ILLUMINATED ENTRY IS INOPERATIVE

	Test Step	Result / Action to Take
G1	CHECK THE VEHICLE EQUIPMENT	
	 Check to see if the vehicle is equipped with remote keyless entry (RKE) and keyless entry keypad. Is the vehicle equipped with remote keyless entry (RKE)? 	Yes GO to G2.
		NO INSTALL a new SJB. TEST the system for normal operation.
G2	CHECK THE RKE TRANSMITTER	
	 Using the RKE transmitter, lock and unlock the doors. Do the doors lock and unlock? 	Yes INSTALL a new SJB. TEST the system for normal operation.
		No REFER to Section 501-14 to continue diagnosis of the RKE system.