

2004 ACCESSORIES & EQUIPMENT**Lighting Systems (Troubleshooting) - C/K SUV****TROUBLESHOOTING****SYMPTOMS - LIGHTING SYSTEMS**

1. Perform the **Diagnostic System Check - Lighting Systems** before using the Symptom Tables in order to verify that all of the following are true:
 - There are no DTCs set.
 - The control modules can communicate via the serial data link.
2. Review the system operation in order to familiarize yourself with the system functions. Refer to the following:
 - **Exterior Lighting Systems Description and Operation**
 - **Interior Lighting Systems Description and Operation**

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the Lighting System. Refer to **Checking Aftermarket Accessories** in Wiring Systems.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to **Testing for Intermittent Conditions and Poor Connections** in Wiring Systems.

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- **Backup Lamps Always On**
- **Backup Lamps Inoperative**
- **Cargo Lamp Always On**
- **Cargo Lamp Inoperative**
- **Clearance Lamps Inoperative**
- **Courtesy Lamps Always On**
- **Courtesy Lamps Inoperative**
- **Daytime Running Lamps (DRL) Always On**
- **Daytime Running Lamps (DRL) Inoperative (Domestic)** or **Daytime Running Lamps (DRL) Inoperative (Export)**

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- Exterior Courtesy Lamp(s) Always On
- Exterior Courtesy Lamp(s) Inoperative
- Fog Lamp Indicator Inoperative
- Fog Lamp Indicator Inoperative - Rear
- Fog Lamps Always On
- Fog Lamps Inoperative
- Fog Lamps Always On - Rear
- Fog Lamps Inoperative - Rear
- Hazard Lamps Always On
- Hazard Lamps Inoperative
- Headlamps Always On - Low or High Beam
- Headlamps Inoperative - High Beams
- Headlamps Inoperative - Low Beams (Escalade) or Headlamps Inoperative - Low Beams (Except Escalade)
- Headlamps Inoperative - Low and High Beams
- Headlamps Inoperative - Flash to Pass
- Headlight Leveling Inoperative
- High Beam Indicator Always On
- High Beam Indicator Inoperative
- Interior Backlighting Does Not Dim
- Interior Backlighting Inoperative
- Park, License, and Tail Lamps Always On
- Park, License, and Tail Lamps Inoperative
- Reading Lamp(s) Inoperative
- Roof Beacon Lamp Always On
- Roof Beacon Lamp Inoperative
- Stop Lamps Always On
- Stop Lamps Inoperative
- Turn Signal Lamps and/or Indicators Always On or Flashing
- Turn Signal Lamps and/or Indicators Inoperative
- Vanity Mirror Lamp(s) Inoperative

BACKUP LAMPS ALWAYS ON

Backup Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			

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1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the backup lamps are always on. Do the backup lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Use the scan tool to check if there are any codes set in the current or history Powertrain DTC Information. Are any codes present?	Go to the Diagnostic System Check in the appropriate Transmission Section	Go to Step 4
4	Test the backup lamp supply voltage circuit of the backup lamps for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 7	Go to Step 5
5	Inspect for poor connections at the harness connector of the Body Control Module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 7	Go to Step 6
6	IMPORTANT: Perform the setup procedure for the BCM. Replace the body control module (BCM). Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 7	-
7	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

BACKUP LAMPS INOPERATIVE

Backup Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	Verify that the backup lamps are inoperative. Do the backup lamps operate normally?	Go to <u>Testing for Intermittent</u>	

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2		Conditions and Poor	Go to Step 3
		<u>Connections</u> in Wiring Systems	
3	Is only one backup lamp inoperative?	Go to Step 5	Go to Step 4
4	Use the scan tool to check if there are any codes set in the current or history Powertrain DTC Information. Are any codes present?	Go to the Diagnostic System Check in the appropriate Transmission Section	Go to Step 6
5	Test the backup lamp supply voltage and ground circuit for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 10	Go to Step 8
6	Test the backup lamp supply voltage and ground circuit for an open or high resistance or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 10	Go to Step 7
7	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 9
8	Replace the affected backup lamp bulb. Refer to <u>Tail/Turn Signal Lamp Replacement</u> . Did you complete the replacement?	Go to Step 10	-
9	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

CARGO LAMP ALWAYS ON

Cargo Lamp Always On

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			

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1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Operate the cargo lamp to verify the fault is present. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Disconnect the cargo lamp switch. Does the cargo lamp turn off?	Go to Step 4	Go to Step 5
4	Inspect for poor connections at the harness connector of the cargo lamp switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 7	Go to Step 6
5	Repair the short to ground in the cargo lamp low control circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 7	-
6	Replace the cargo lamp switch. Refer to <u>Lamp Switch Assembly Replacement - Front Fog Lamp and Cargo Lamp</u> . Did you complete the replacement?	Go to Step 7	-
7	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

CARGO LAMP INOPERATIVE

Cargo Lamp Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Operate the cargo lamp to verify the fault is present. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	1. Turn the cargo lamp switch to the ON position. 2. Disconnect the cargo lamp. 3. Connect a test lamp between the inadvertent power supply voltage circuit of the cargo lamp and a good ground.		

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	Does the test lamp illuminate?	Go to Step 4	Go to Step 9
4	1. Ensure the cargo lamp switch is in the ON position. 2. Connect a test lamp between the cargo lamp low control circuit of the cargo lamp and a battery positive voltage circuit. Does the test lamp illuminate?	Go to Step 7	Go to Step 5
5	1. Disconnect the cargo lamp switch. 2. Connect a fuse jumper wire between the cargo lamp low control circuit of the cargo lamp switch and the ground circuit of the cargo lamp switch. 3. Connect a test lamp between the cargo lamp low control circuit of the cargo lamp and inadvertent power supply circuit of the cargo lamp. Does the test lamp illuminate?	Go to Step 8	Go to Step 6
6	Connect a test lamp between the ground circuit of the cargo lamp switch and a battery positive voltage circuit. Does the test lamp illuminate?	Go to Step 10	Go to Step 11
7	Inspect for poor connections at the harness connector of the bulbs. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 14	Go to Step 12
8	Inspect for poor connections at the harness connector of the cargo lamp switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 14	Go to Step 13
9	Repair the open in the inadvertent power supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 14	-
10	Repair the open in the cargo lamp low control circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 14	-
11	Repair the open in the ground circuit of the cargo lamp switch. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 14	-
12	Replace the cargo lamp bulbs. Did you complete the replacement?	Go to Step 14	-

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13	Replace the cargo lamp switch. Refer to <u>Lamp Switch Assembly Replacement - Front Fog Lamp and Cargo Lamp</u> . Did you complete the replacement?	Go to Step 14	-
14	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

CLEARANCE LAMPS INOPERATIVE

Clearance Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Turn ON the park lamps. Do the clearance lamps illuminate?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are the park lamps illuminated?	Go to Step 4	Go to <u>Park, License, and Tail Lamps Inoperative</u>
4	Are all clearance lamps inoperative?	Go to Step 7	Go to Step 5
5	Test the clearance lamp supply voltage and ground circuit for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 6
6	Inspect for poor connections at the harness connector of the clearance lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 8
7	Repair the interior park lamps supply voltage circuit of the clearance lamps for a short to ground, a high resistance, or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 9	-
8	Replace the affected clearance lamp bulb. Did you complete the replacement?	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

COURTESY LAMPS ALWAYS ON

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Courtesy Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> , <u>Body Control System Connector End Views</u> or <u>Master Electrical Component List</u>			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Verify that the courtesy/dome lamps are always ON. Do the courtesy/dome lamps operate normally?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Test for a ground signal on the liftgate ajar signal circuit of the liftgate ajar switch. Was a ground signal present?	Go to Step 5	Go to Step 4
4	1. Ensure that the instrument panel lamp dimmer switch is in the minimum brightness position. 2. Inspect for the following related body control module (BCM), driver door module (DDM), and passenger door module (PDM) data parameters. Refer to Scan Tool Data List and Scan Tool Data Definitions for typical values and definitions: • The courtesy lamp switch • The interior lamp defeat switch • The door ajar switches Was a problem found?	Go to Step 5	Go to Step 9
5	Disconnect and test the switch of the affected input circuit for proper continuity in the open and closed positions. Refer to Testing for Continuity in Wiring Systems. Is continuity correct in both positions?	Go to Step 6	Go to Step 7
6	Test the signal circuits of the affected input switch for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 8
7	Inspect for poor connections at the harness connector of the affected switch. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 10
	Inspect for poor connections at the harness connector		

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8	of the module in the affected circuit. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Replace the switch in the affected circuit. Did you complete the replacement?	Go to Step 13	-
11	IMPORTANT: Perform the setup procedure for the replacement module as applicable. Replace the module in the affected circuit. Refer to the appropriate replacement procedure: • <u>Body Control Module Replacement</u> in Body Control System • <u>Switch Replacement - Door Lock and Side Window - Driver</u> in Doors • <u>Switch Replacement - Door Lock and Side Window - Passenger</u> in Doors Did you complete the replacement?	Go to Step 13	-
12	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

COURTESY LAMPS INOPERATIVE

Courtesy Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> or <u>Body Control System Schematics</u> in Body Control System Connector End View Reference: <u>Lighting Systems Connector End Views</u> , <u>Body Control System Connector End Views</u> in Body Control System or <u>Master Electrical Component List</u> in Wiring Systems			

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1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the courtesy/dome lamps are inoperative. Do the courtesy/dome lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are all courtesy lamps inoperative?	Go to Step 5	Go to Step 4
4	Test the voltage supply and ground circuits of the inoperative lamp for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> In Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 14
5	Are the courtesy lamps inoperative from a specific switch only?	Go to Step 6	Go to Step 11
6	Inspect the following related body control module (BCM), driver door module (DDM), passenger door module (PDM) data parameters, and check for a ground signal on the liftgate ajar signal circuit of the BCM with the liftgate open. Refer to <u>Scan Tool Data List</u> and <u>Scan Tool Data Definitions</u> for typical values and definitions: • The courtesy lamp switch • The interior lamp defeat switch • The door ajar switches Was a problem found?	Go to Step 7	Go to Step 10
7	Disconnect and test the switch of the affected input circuit for proper continuity in the open and closed positions. Refer to <u>Testing for Continuity</u> in Wiring Systems. Is continuity correct in both positions?	Go to Step 8	Go to Step 9
8	Test the signal and ground circuits of the affected input circuit for the following conditions: • An open • A short to ground • High resistance Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems.		

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	Did you find and correct the condition?	Go to Step 16	Go to Step 10
9	Inspect for poor connections at the harness connector of the affected switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 12
10	Inspect for poor connections at the harness connector of the module in the affected circuit. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 13
11	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 15
12	Replace the switch in the affected circuit. Did you complete the replacement?	Go to Step 16	-
13	IMPORTANT: Perform the setup procedure for the replacement module as applicable. Replace the module in the affected circuit. Refer to the appropriate replacement procedure: • <u>Body Control Module Replacement</u> in Body Control Systems • <u>Switch Replacement - Door Lock and Side Window - Driver</u> in Doors • <u>Switch Replacement - Door Lock and Side Window - Passenger</u> in Doors Did you complete the replacement?	Go to Step 16	-
14	Replace the inoperative bulb. Did you complete the repair?	Go to Step 16	-
15	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 16	-
16	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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DAYTIME RUNNING LAMPS (DRL) ALWAYS ON

Daytime Running Lamps (DRL) Always On

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Ensure the park brake is released. 2. Turn ON the ignition, with the engine OFF. 3. With the brake pedal depressed, place the gear selector in any drive gear. 4. Place the headlamps in the ON position. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	1. Place the headlamps in the AUTO position. 2. Disconnect the daytime running lamp (DRL) relay. Do the DRL turn OFF?	Go to Step 4	Go to Step 7
4	1. Reconnect the DRL relay. 2. Use the scan tool to observe the DRL parameter and command the DRL ON and OFF several times. Does the DRL parameter change states as expected?	Go to Step 5	Go to Step 6
5	Inspect for poor connections at the harness connector of the DRL relay. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 8
6	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 9
7	Repair the DRL supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 10	-
8	Replace the DRL relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the replacement?	Go to Step 10	-

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9	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

DAYTIME RUNNING LAMPS (DRL) INOPERATIVE (DOMESTIC)

Daytime Running Lamps (DRL) Inoperative (Domestic)

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Block the drive wheels. 2. Turn the ignition ON, with the engine OFF. 3. Place the gear selector in the DRIVE position. 4. Ensure the headlamp switch is in the AUTO position. 5. Ensure the ambient light sensor is not covered or has no obstruction to daylight. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Is only one daytime running lamp (DRL) inoperative?	Go to Step 4	Go to Step 5
4	Test the supply and ground circuits of the affected lamp for a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 15
5	1. Ensure the park brake is not set. 2. Install a scan tool. 3. Turn ON the ignition, with the engine OFF. 4. With the scan tool, observe the park brake switch parameter in the Body Control Module (BCM) data list. Does the scan tool display RELEASED?	Go to Step 7	Go to Step 6
	Test the signal circuit of the park brake switch for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring</u>		

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6	Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 10
7	1. Turn OFF the ignition. 2. Remove the DRL relay. 3. Connect a 3-amp fused jumper wire between battery positive voltage and the DRL supply voltage circuit of the DRL relay. Do the DRL illuminate?	Go to Step 8	Go to Step 11
8	Test the DRL relay control circuit of the DRL relay for a ground signal. Refer to Circuit Testing in Wiring Systems Is a ground signal present?	Go to Step 14	Go to Step 9
9	Inspect for poor connections at the harness connector of the BCM. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 12
10	Inspect for poor connections at the harness connector of the park brake switch. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 13
11	Repair the DRL supply voltage circuit. Refer to Wiring Repairs in Wiring Systems Did you complete the repair?	Go to Step 16	-
12	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to Body Control Module Replacement in Body Control System. Did you complete the replacement?	Go to Step 16	-
13	Replace the park brake switch. Refer to Park Brake Warning Lamp Switch Replacement in Park Brake. Did you complete the replacement?	Go to Step 16	-
14	Replace the DRL relay. Refer to Relay Replacement (Within an Electrical Center) or Relay Replacement (Attached to Wire Harness) in Wiring Systems. Did you complete the replacement?	Go to Step 16	-
15	Replace the inoperative DRL. Did you complete the replacement?	Go to Step 16	-
16	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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DAYTIME RUNNING LAMPS (DRL) INOPERATIVE (EXPORT)

Daytime Running Lamps (DRL) Inoperative (Export)

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Block the drive wheels. 2. Turn the ignition ON, with the engine OFF. 3. Place the gear selector in the DRIVE position. 4. Ensure the headlamp switch is in the PARK position. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Is only one daytime running lamp (DRL) inoperative?	Go to Step 4	Go to Step 5
4	Test the supply and ground circuits of the affected lamp for a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 17	Go to Step 16
5	Do the park lamps operate normally?	Go to Step 6	Go to <u>Park, License, and Tail Lamps Inoperative</u>
6	1. Ensure the park brake is not set. 2. Install a scan tool. 3. Turn ON the ignition, with the engine OFF. 4. With the scan tool, observe the Park Brake Switch parameter in the Body Control Module (BCM) data list. Does the scan tool display RELEASED?	Go to Step 8	Go to Step 7
7	Test the signal circuit of the park brake switch for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 17	Go to Step 11
8	1. Turn OFF the ignition. 2. Remove the DRL relay. 3. Connect a 3-amp fused jumper wire between battery positive voltage and the DRL supply voltage circuit of the DRL relay.		

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	Do the DRL illuminate?	Go to Step 9	Go to Step 12
9	Test the DRL relay control circuit of the DRL relay for a ground signal. Refer to <u>Circuit Testing</u> in Wiring Systems. Is a ground signal present?	Go to Step 15	Go to Step 10
10	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 17	Go to Step 13
11	Inspect for poor connections at the harness connector of the park brake switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 17	Go to Step 14
12	Repair the DRL supply voltage circuit. Did you complete the repair?	Go to Step 17	-
13	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 17	-
14	Replace the park brake switch. Refer to <u>Park Brake Warning Lamp Switch Replacement</u> in Park Brake. Did you complete the replacement?	Go to Step 17	-
15	Replace the DRL relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the replacement?	Go to Step 17	-
16	Replace the inoperative DRL. Did you complete the replacement?	Go to Step 17	-
17	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

EXTERIOR COURTESY LAMP(S) ALWAYS ON

Exterior Courtesy Lamp(s) Always On

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?		Go to <u>Diagnostic System Check</u> -

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		Go to Step 2	Lighting Systems
2	Ensure that all doors are closed and the interior courtesy lamps turn off. Do the exterior courtesy lamps remain illuminated?	Go to Testing for Electrical Intermittents in Wiring Systems	Go to Step 3
3	Test the door exterior courtesy lamp ground circuit for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 6	Go to Step 4
4	Inspect for poor connections at the harness connector of the driver door module (DDM) or passenger door module (PDM). Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 6	Go to Step 5
5	Replace the DDM or PDM. Refer to Switch Replacement - Door Lock and Side Window - Driver or Switch Replacement - Door Lock and Side Window - Passenger in Doors. Did you complete the replacement?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

EXTERIOR COURTESY LAMP(S) INOPERATIVE

Exterior Courtesy Lamp(s) Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Open any door. Do the exterior courtesy lamps operate correctly?	Go to Testing for Electrical Intermittents in Wiring Systems	Go to Step 3
3	Do the interior courtesy lamps illuminate?	Go to Step 4	Go to Courtesy Lamps Inoperative
4	1. Disconnect the outside rear view (OSRV) mirror connector from the driver door module (DDM) or passenger door module (PDM). 2. Test for continuity between the door exterior courtesy lamp supply voltage circuit and the door exterior courtesy lamp ground circuit of the		

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	OSRV mirror connector. Refer to <u>Testing for Continuity</u> In Wiring Systems.		
	Is continuity present?	Go to Step 6	Go to Step 5
5	Inspect the bulb for an open filament. Is the bulb OK?	Go to Step 7	Go to Step 8
6	Inspect for poor connections at the harness connector of the DDM or PDM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 9
7	Inspect for poor connections at the harness connector of the OSRV mirror. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 10
8	Replace the bulb. Refer to <u>Courtesy Lamp Replacement - Exterior</u> . Did you complete the replacement?	Go to Step 11	-
9	Replace the DDM or PDM. Refer to <u>Switch Replacement - Door Lock and Side Window - Driver</u> or <u>Switch Replacement - Door Lock and Side Window - Passenger</u> in Doors. Did you complete the replacement?	Go to Step 11	-
10	Replace the OSRV mirror. Refer to <u>Mirror Replacement - Power</u> in Doors. Did you complete the replacement?	Go to Step 11	-
11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMP INDICATOR INOPERATIVE

Fog Lamp Indicator Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the fog lamp indicator is inoperative. Does the fog lamp indicator operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3

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3	Do the fog lamps operate normally?	Go to Step 4	Go to Symptoms - Lighting Systems
4	Test the fog lamp relay control circuit to the fog lamp switch for an open or high resistance. Refer to Circuit Testing or Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 6	Go to Step 5
5	Replace the fog lamp switch. Refer to Lamp Switch Assembly Replacement - Front Fog Lamp and Cargo Lamp . Did you complete the replacement?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMP INDICATOR INOPERATIVE - REAR

Fog Lamp Indicator Inoperative - Rear

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Verify that the rear fog lamp indicator is inoperative. Does the rear fog lamp indicator operate normally?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Does the rear fog lamp operate normally?	Go to Step 4	Go to Symptoms - Lighting Systems
4	Test the rear fog lamp relay control circuit to the rear fog lamp switch for an open or high resistance. Refer to Circuit Testing or Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 6	Go to Step 5
5	Replace the rear fog lamp switch. Refer to Fog Lamp Switch Replacement - Rear . Did you complete the replacement?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMPS ALWAYS ON

Fog Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u>			

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Connector End View Reference: Lighting Systems Connector End Views or Body Control System Connector End Views in Body Control System.

1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the front fog lamps are always on. Do the front fog lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Remove the front fog lamp relay. Do the front fog lamps turn OFF?	Go to Step 4	Go to Step 7
4	1. Ensure that the front fog lamp switch is in the OFF position. 2. Test for a ground signal at the front fog lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> in Wiring Systems. Was a ground signal found?	Go to Step 5	Go to Step 9
5	Test the front fog lamp relay control circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 6
6	Inspect for poor connections at the harness connector of the Body Control Module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 8
7	Repair the short to voltage in the front fog lamp supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 10	-
8	IMPORTANT: Perform the setup procedure for the BCM. Replace the body control module (BCM). Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 10	-
9	Replace the front fog lamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the repair?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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FOG LAMPS INOPERATIVE

Fog Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the front fog lamps are inoperative. Do the front fog lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Is only one front fog lamp inoperative?	Go to Step 4	Go to Step 6
4	Inspect the inoperative bulb and socket for an open filament or poor terminal contact and repair or replace as necessary. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 5
5	Test the ground circuit of the inoperative lamp for a high resistance or an open. Did you find and correct the condition?	Go to Step 19	Go to Step 15
6	With the engine Off, turn the key to RUN and the headlamp switch to PARK. Do the park lamps illuminate?	Go to Step 7	Go to <u>Park, License, and Tail Lamps Inoperative</u>
7	Inspect the FOG LP fuse. Is the fuse open?	Go to Step 14	Go to Step 8
8	1. Place the front fog lamp switch in the ON position. 2. Remove the front fog lamp relay. 3. Test for a ground signal at the front fog lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> in Wiring Systems. Was a ground signal present?	Go to Step 11	Go to Step 9
9	Test the front fog lamp switch signal and ground circuits for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 19	Go to Step 10
	1. Remove the fog lamp switch. 2. Place a fused jumper between the fog lamp		

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10	switch signal and ground connector terminals. 3. Test for a ground signal at the front fog lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> in Wiring Systems. Was a ground signal present?	Go to Step 18	Go to Step 12
11	Test for an open or high resistance in the front fog lamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 19	Go to Step 17
12	Test the fog lamp relay control circuit for an open high resistance or a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 13
13	Inspect for poor connections at the harness connector of the Body Control Module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 16
14	Repair the fog lamp supply circuit of the inoperative lamp for a short to ground. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 19	-
15	Repair the fog lamp supply circuit of the inoperative lamp. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 19	-
16	IMPORTANT: Perform the setup procedure for the BCM. Replace the body control module (BCM). Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 19	-
17	Replace the front fog lamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the repair?	Go to Step 19	-
18	Replace the front fog lamp switch. Refer to <u>Headlamp Switch Replacement</u>. Did you complete the repair?	Go to Step 19	-
19	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMPS ALWAYS ON - REAR

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Fog Lamps Always On - Rear

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Verify that the rear fog lamps are always on. Do the rear fog lamps operate normally?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Use the scan tool to monitor the rear fog lamp switch input while depressing the switch several times. Does the scan tool indicate that the switch is ACTIVE at all times?	Go to Step 4	Go to Step 5
4	Test for a short to ground in the rear fog lamp switch signal circuit. Did you find and correct the condition?	Go to Step 13	Go to Step 11
5	Test the rear fog lamp relay control circuit for a short to ground. Did you find and correct the condition?	Go to Step 13	Go to Step 6
6	Remove the rear fog lamp relay. Do the rear fog lamps turn OFF?	Go to Step 7	Go to Step 9
7	1. Ensure that the rear fog lamp switch is in the OFF position. 2. Test for a ground signal at the rear fog lamp relay control circuit terminal in the body relay block. Refer to Circuit Testing in Wiring Systems. Was a ground signal found?	Go to Step 8	Go to Step 12
8	Inspect for poor connections at the harness connector of the Body Control Module (BCM). Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 10
9	Repair the short to voltage in the rear fog lamp supply voltage circuit. Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	Go to Step 13	-
10	IMPORTANT: Perform the setup procedure for the BCM. Replace the body control module (BCM). Refer to		-

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	Body Control Module Replacement in Body Control System. Did you complete the replacement?	Go to Step 13	
11	Replace the rear fog lamp switch. Refer to Fog Lamp Switch Replacement - Rear . Did you complete the repair?	Go to Step 13	-
12	Replace the rear fog lamp relay. Refer to Relay Replacement (Within an Electrical Center) or Relay Replacement (Attached to Wire Harness) in Wiring Systems. Did you complete the repair?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMPS INOPERATIVE - REAR

Fog Lamps Inoperative - Rear

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Verify that the rear fog lamps are inoperative. Does the rear fog lamp operate normally?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	With the engine OFF, turn the key to RUN and the headlamp switch to PARK. Do the park lamps illuminate?	Go to Step 4	Go to Park, License, and Tail Lamps Inoperative
4	Inspect the SEO 1 fuse. Is the fuse open?	Go to Step 10	Go to Step 5
5	1. Place the rear fog lamp switch in the ON position. 2. Remove the rear fog lamp relay. 3. Test for a ground signal at the rear fog lamp relay control circuit of the rear fog lamp relay. Refer to Circuit Testing in Wiring Systems. Was a ground signal present?	Go to Step 8	Go to Step 6
	Test for an open, high resistance, or short to voltage in the following circuits:		

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6	• Rear fog lamp switch signal • Rear fog lamp switch ground • Rear fog lamp relay control Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct a condition?	Go to Step 14	Go to Step 7
7	1. Remove the rear fog lamp switch. 2. Place a fused jumper between the rear fog lamp switch signal and ground connector terminals. 3. Test for a ground signal at the rear fog lamp relay control circuit of the rear fog lamp relay. Refer to Circuit Testing in Wiring Systems. Was a ground signal present?	Go to Step 13	Go to Step 9
8	Test for an open or high resistance in the rear fog lamp supply voltage circuit. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct a condition?	Go to Step 14	Go to Step 12
9	Inspect for poor connections at the harness connector of the Body Control Module (BCM). Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 14	Go to Step 11
10	Repair the fog lamp supply circuit of the inoperative lamp for a short to ground. Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	Go to Step 14	-
11	IMPORTANT: Perform the setup procedure for the BCM. Replace the body control module (BCM). Refer to Body Control Module Replacement in Body Control System. Did you complete the replacement?	Go to Step 14	-
12	Replace the rear fog lamp relay. Refer to Relay Replacement (Within an Electrical Center) or Relay Replacement (Attached to Wire Harness) in Wiring Systems. Did you complete the replacement?	Go to Step 14	-
13	Replace the rear fog lamp switch. Refer to Fog Lamp Switch Replacement - Rear. Did you complete the repair?	Go to Step 14	-
14	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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HAZARD LAMPS ALWAYS ON

Hazard Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Turn OFF the hazard flashers. Does the system operate normally?	Go to Testing for Electrical Intermittents in Wiring Systems	Go to Step 3
3	1. Turn OFF the ignition. 2. Disconnect the turn signal/hazard flasher module. 3. Connect a test lamp between the hazard flasher signal circuit of the turn signal/hazard flasher module connector and battery positive voltage. Does the test lamp illuminate?	Go to Step 4	Go to Step 6
4	Test the hazard switch signal circuit of the turn signal/hazard flasher module for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 5
5	Inspect for poor connections at the harness connector of the Multifunction switch. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 7
6	Inspect for poor connections at the harness connector of the turn signal/hazard flasher module. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 8
7	Replace the multifunction switch. Refer to Multifunction, Turn Signal Switch Replacement in Steering Wheel and Column. Did you complete the replacement?	Go to Step 9	-
8	Replace the turn signal/hazard flasher module. Did you complete the replacement?	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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HAZARD LAMPS INOPERATIVE

Hazard Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Turn ON the hazard flashers. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	1. Turn ON the ignition with the engine OFF. 2. Turn ON each turn signal. Do the turn signals function properly?	Go to Step 4	Go to <u>Turn Signal Lamps and/or Indicators Inoperative</u>
4	1. Turn OFF the ignition. 2. Disconnect the turn signal/hazard flasher module. 3. Turn ON the hazard switch. 4. Connect a test lamp between the hazard flasher signal circuit of the turn signal/hazard flasher module connector and battery positive voltage. Does the test lamp illuminate?	Go to Step 8	Go to Step 5
5	Test the hazard switch signal circuit of the turn signal/hazard flasher module for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 6
6	Test the ground circuit of the multifunction switch for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 7
7	Inspect for poor connections at the harness connector of the Multifunction switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 9
8	Inspect for poor connections at the harness connector of the turn signal/hazard flasher module. Refer to <u>Testing for Intermittent Conditions and Poor</u>		

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	<u>Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 10
9	Replace the multifunction switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 11	-
10	Replace the turn signal/hazard flasher module. Did you complete the replacement?	Go to Step 11	-
11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS ALWAYS ON - LOW OR HIGH BEAM

Headlamps Always On - Low or High Beam

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Place the headlamp switch in the OFF position. Do the high and low beam headlamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are only the high beam headlamps always ON?	Go to Step 4	Go to Step 8
4	Disconnect the headlamp dimmer switch. Do the high beam headlamps remain ON?	Go to Step 5	Go to Step 10
5	Test the following circuits for a short to ground as applicable. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. • The headlamp dimmer switch signal • The headlamp switch flash to pass (FTP) signal Did you find and correct a condition?	Go to Step 18	Go to Step 6
6	Remove the high beam relay. Do the high beam headlamps remain ON?	Go to Step 12	Go to Step 7
7	Test for a ground signal at the high beam relay control circuit connector terminal. Refer to <u>Circuit Testing</u> in Wiring Systems. Is a ground control signal present?	Go to Step 11	Go to Step 15

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8	Remove the low beam relay. Do the low beam headlamps remain always ON?	Go to Step 13	Go to Step 9
9	Test for a ground signal at the headlamp low beam relay control circuit connector terminal of the relay. Refer to <u>Circuit Testing</u> in Wiring Systems. Is a ground signal present?	Go to Step 11	Go to Step 16
10	Inspect for poor connections at the harness connector of the headlamp dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 18	Go to Step 17
11	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 18	Go to Step 14
12	Repair the short to voltage in the right or left high beam headlamp supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 18	-
13	Repair the short to voltage in the right or left low beam headlamp supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 18	-
14	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 18	-
15	Replace the high beam headlamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the repair?	Go to Step 18	-
16	Replace the low beam relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the repair?	Go to Step 18	-
17	Replace the headlamp dimmer switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the repair?	Go to Step 18	-
18	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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HEADLAMPS INOPERATIVE - HIGH BEAMS

Headlamps Inoperative - High Beams

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Place the headlamp switch in the ON position. 2. Place the dimmer switch in the high beam position. Do the high beam headlamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Is only one high beam headlamp inoperative?	Go to Step 4	Go to Step 5
4	Test the high beam headlamp supply voltage circuit for high resistance, an open or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 8
5	1. Disconnect the headlamp high relay. 2. Connect a test lamp between the control circuit of the headlamp high relay and the battery positive voltage circuit of the headlamp high relay connector. Does the test lamp illuminate?	Go to Step 13	Go to Step 6
6	Test the headlamp dimmer switch signal and ground circuits for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 15	Go to Step 7
7	1. Place the headlamp switch in the HEAD position. 2. Connect a fused jumper from ground to the headlamp dimmer switch signal terminal of the headlamp dimmer switch connector. Do the high beam headlamps illuminate?	Go to Step 9	Go to Step 10
8	Inspect for poor connections at the harness connector of the inoperative bulb. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 11
	Inspect for poor connections at the harness connector		

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9	of the headlamp dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 14
10	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 12
11	Replace the high beam bulb. Refer to <u>Headlamp Assembly or Headlamp Bulb Replacement (Except Avalanche)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (Avalanche)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (Cadillac)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (HID)</u> . Did you complete the replacement?	Go to Step 15	-
12	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 15	-
13	Replace the high beam headlamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the replacement?	Go to Step 15	-
14	Replace the headlamp dimmer switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the repair?	Go to Step 15	-
15	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS INOPERATIVE - LOW BEAMS (ESCALADE)

Headlamps Inoperative - Low Beams (Escalade)

Step	Action	Yes	No
CAUTION: The high intensity discharge system produces high voltage and current. To reduce the risk of severe shocks and burns: • Never open the high intensity discharge system ballast or the arc tube assembly starter. • Never probe between the high intensity discharge system ballast output connector and the arc tube assembly.			

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Schematic Reference: Headlights/Daytime Running Lights (DRL) Schematics Connector End View
Reference: Lighting Systems Connector End Views or Body Control System Connector End Views
 in Body Control System

1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Place the headlamp switch in the ON position. 2. Place the dimmer switch in the low beam position. Do the low beam headlamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Is only one low beam headlamp inoperative?	Go to Step 4	Go to Step 8
4	1. Disconnect the forward lamps harness connector from the inoperative headlamp ballast. 2. Ensure that the headlamp switch is in the HEAD position. 3. Ensure that the headlamp dimmer switch is in the LOW BEAM position. 4. Test the battery positive voltage circuit of the inoperative headlamp before the ballast connector for high resistance, an open or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 5
5	Test the headlamp low beam supply voltage circuit of the inoperative headlamp before the ballast connector for high resistance, an open or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 6
6	Test the ground circuit of the inoperative headlamp before the ballast connector for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 7
7	Install a known good headlamp bulb. Refer to <u>Headlamp Assembly or Headlamp Bulb Replacement (Except Avalanche)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (Avalanche)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (Cadillac)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (HID)</u> . Does the lamp operate properly?	Go to Step 19	Go to Step 12

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8	1. Disconnect the headlamp low relay. 2. Connect a test lamp between the control circuit of the headlamp low relay and the battery positive voltage circuit of the headlamp low relay connector. Does the test lamp illuminate?	Go to Step 17	Go to Step 9
9	1. Connect the headlamp low relay. 2. Disconnect the multifunction switch. 3. Place the headlamp switch in the HEAD position. Do the low beam headlamps illuminate?	Go to Step 13	Go to Step 10
10	Test the headlamp dimmer switch signal circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 11
11	Test the headlamp switch flash to pass signal circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 14
12	Inspect for poor connections at the harness connector of the ballast. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 15
13	Inspect for poor connections at the harness connector of the headlamp dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 18
14	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 19	Go to Step 16
15	Replace the headlamp ballast. Refer to <u>HID Headlamp Ballast Replacement</u>. Did you complete the replacement?	Go to Step 19	-
16	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 19	-
	Replace the low beam headlamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay</u>		

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17	Replacement (Attached to Wire Harness) in Wiring Systems. Did you complete the replacement?	Go to Step 19	-
18	Replace the headlamp dimmer switch. Refer to Multifunction, Turn Signal Switch Replacement in Steering Wheel and Column. Did you complete the repair?	Go to Step 19	-
19	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS INOPERATIVE - LOW BEAMS (EXCEPT ESCALADE)

Headlamps Inoperative - Low Beams (Except Escalade)

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	1. Place the headlamp switch in the ON position. 2. Place the dimmer switch in the low beam position. Do the low beam headlamps operate normally?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Is only one low beam headlamp inoperative?	Go to Step 4	Go to Step 5
4	Test the headlamp low beam supply voltage and ground circuits for high resistance, an open or a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 9
5	1. Disconnect the headlamp low relay. 2. Connect a test lamp between the control circuit of the headlamp low relay and the battery positive voltage circuit of the headlamp low relay connector. Does the test lamp illuminate?	Go to Step 14	Go to Step 6
6	1. Connect the headlamp low relay. 2. Disconnect the multifunction switch. 3. Place the headlamp switch in the HEAD position.		

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	Do the low beam headlamps illuminate?	Go to Step 10	Go to Step 7
7	Test the headlamp dimmer switch signal circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 16	Go to Step 8
8	Test the headlamp switch flash to pass signal circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 16	Go to Step 11
9	Inspect for poor connections at the harness connector of the inoperative bulb. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 12
10	Inspect for poor connections at the harness connector of the headlamp dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 15
11	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 16	Go to Step 13
12	Replace the inoperative bulb. Refer to <u>Headlamp Assembly or Headlamp Bulb Replacement (Except Avalanche)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (Avalanche)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (Cadillac)</u> or <u>Headlamp Assembly or Headlamp Bulb Replacement (HID)</u> . Did you complete the replacement?	Go to Step 16	-
13	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 16	-
14	Replace the low beam headlamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the replacement?	Go to Step 16	-
15	Replace the headlamp dimmer switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the repair?	Go to Step 16	-
16	Operate the system in order to verify the repair.		

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Did you correct the condition?

System OK

Go to **Step 3**

HEADLAMPS INOPERATIVE - LOW AND HIGH BEAMS

Headlamps Inoperative - Low and High Beams

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting System Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Place the headlamp switch in the ON position. 2. Change the dimmer switch position from the high to low beam positions several times. Does the headlamp system operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are both high and low beam headlamps inoperative?	Go to Step 4	Refer to <u>Headlamps Inoperative - Low Beams (Escalade)</u> or <u>Headlamps Inoperative - Low Beams (Except Escalade)</u> or <u>Headlamps Inoperative - High Beams</u>
4	With a scan tool, observe the headlamp switch parameter. Does the scan tool indicate ACTIVE?	Go to Step 7	Go to Step 5
5	Connect a test lamp between the ground circuit of the headlamp switch connector and battery positive voltage. Does the test lamp illuminate?	Go to Step 6	Go to Step 9
6	Test the headlamps switch headlamps on signal circuit of the headlamp switch for a high resistance, an open, or a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 8
7	Inspect for poor connections to the BCM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 10

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8	Inspect for poor connections to the headlamp switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 11
9	Repair the ground circuit of the headlamp switch. Did you complete the repair?	Go to Step 12	-
10	IMPORTANT: Perform the setup procedure for the body control module. Replace the body control module. Refer to <u>Body Control Module Replacement</u> Did you complete the replacement?	Go to Step 12	-
11	Replace the headlamp switch. Refer to <u>Headlamp Switch Replacement</u> Did you complete the replacement?	Go to Step 12	-
12	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS INOPERATIVE - FLASH TO PASS

Headlamps Inoperative - Flash to Pass

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Place the headlamp switch in the ON position. 2. Place the dimmer switch in the low beam position. 3. Turn ON the flash to pass switch. Do the high beam headlamps illuminate momentarily?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Place the headlamp switch in the ON position. 2. Connect a fused jumper from ground to the headlamp switch flash to pass signal circuit terminal of the headlamp dimmer switch connector. Do the high beam headlamps illuminate?	Go to Step 6	Go to Step 4
	Test the headlamp switch flash to pass signal circuit		

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4	for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 5
5	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 7
6	Inspect for poor connections at the harness connector of the dimmer switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 8
7	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 9	-
8	Replace the headlamp dimmer switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the repair?	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLIGHT LEVELING INOPERATIVE

Headlight Leveling Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Headlight Leveling Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn ON the ignition, with the engine OFF. 2. Turn the headlamp level switch to each position. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Is a specific switch position inoperative while the others operate correctly?	Go to Step 11	Go to Step 4
4	Are both headlamp leveling motors inoperative?	Go to Step 5	Go to Step 8
	Test the ignition 1 voltage circuit of the switch and		

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5	motors for high resistance, an open or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 6
6	Test the ground circuit of the switch for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 7
7	Test the headlamp leveling motor supply voltage circuit of the switch for high resistance, an open or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 11
8	Test the ignition 1 voltage circuit of the motor for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 9
9	Test the ground circuit of the motor for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 10
10	Test the headlamp leveling motor supply voltage circuit of the motor for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 12
11	Inspect for poor connections at the headlamp leveling switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 13
12	Inspect for poor connections at the headlamp leveling motor. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 14
13	Replace the headlamp leveling switch. Refer to <u>Headlamp Leveling Switch Replacement</u> . Did you complete the replacement?	Go to Step 15	-
14	Replace the headlamp leveling motor. Did you complete the replacement?	Go to Step 15	-
15	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HIGH BEAM INDICATOR ALWAYS ON

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High Beam Indicator Always On

Step	Action	Yes	No
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn the ignition switch to the RUN position. 2. Turn the headlamp switch to the ON position. 3. Place the multifunction headlamp dimmer switch to the low beams position. Does the high beam indicator turn OFF as expected?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the high beam headlamps turn OFF as expected?	Go to Step 4	Go to <u>Symptoms - Lighting Systems</u>
4	Using a scan tool, select IPC, Special Functions, and command the Lamp Test ON, then OFF. Does the high beam indicator lamp turn ON and OFF when commanded?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 5
5	Inspect for poor connections at the harness connector of the instrument panel cluster (IPC). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 7	Go to Step 6
6	IMPORTANT: Perform the setup procedure for the IPC. Replace the IPC. Refer to <u>Instrument Panel Cluster (IPC) Replacement</u> in Instrument Panel, Gages, and Console. Did you complete the replacement?	Go to Step 7	-
7	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HIGH BEAM INDICATOR INOPERATIVE

High Beam Indicator Inoperative

Step	Action	Yes	No
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn the ignition switch to the RUN position. 2. Turn the headlamp switch to the ON position. 3. Place the multifunction headlamp dimmer switch to the high beams position.	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	

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	Do the high beam indicator function properly?	in Wiring Systems	Go to Step 3
3	Do the high beam headlamps function properly?	Go to Step 4	Go to Symptoms - Lighting Systems
4	Using a scan tool, select IPC, Special Functions, and command the Lamp Test ON, then OFF. Does the high beam indicator lamp turn ON and OFF when commanded?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 5
5	Inspect for poor connections at the harness connector of the instrument panel cluster (IPC). Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 7	Go to Step 6
6	IMPORTANT: Perform the setup procedure for the IPC. Replace the IPC. Refer to Instrument Panel Cluster (IPC) Replacement in Instrument Panel, Gages, and Console. Did you complete the replacement?	Go to Step 7	-
7	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

INTERIOR BACKLIGHTING DOES NOT DIM

Interior Backlighting Does Not Dim

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Dimming Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Verify that the interior backlighting does not dim. Does the interior backlighting operate normally?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Use the scan tool output controls to operate the interior backlighting. Can you control the dimming level of an activated control switch indicator with the scan tool?	Go to Step 4	Go to Step 5
	Test for an open, high resistance or short to ground in the following circuits. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. The 5 volt reference		

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4	• The dimming input • The dimming return Did you find and correct a condition?	Go to Step 10	Go to Step 6
5	Test for a short to voltage in the LED dimming circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct a condition?	Go to Step 10	Go to Step 7
6	Inspect for poor connections at the harness connector of the headlamp switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 8
7	Inspect for poor connections at the harness connector of the body control module. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 9
8	Replace the headlamp switch. Refer to <u>Headlamp Switch Replacement</u>. Did you complete the replacement?	Go to Step 10	-
9	IMPORTANT: Perform the setup procedure for the BCM. Replace the body control module (BCM). Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

INTERIOR BACKLIGHTING INOPERATIVE

Interior Backlighting Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Dimming Schematics</u> or <u>Body Control System Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the interior backlighting is inoperative. Does the interior backlighting operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3

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3	Are all of the interior backlighting lamps inoperative?	Go to Step 5	Go to Step 4
4	Test for an open or high resistance in the following circuits of the inoperative lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. • The instrument panel lamps dimming control • The LED dimming supply • The ground Did you find and correct a condition?	Go to Step 13	Go to Step 8
5	Is the TBC 2A Fuse in the I/P fuse block open?	Go to Step 6	Go to Step 7
6	Test the battery positive voltage circuit of the BCM for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 10
7	Test for the following conditions. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. • Short to voltage in the dimmer potentiometer low reference circuit of the BCM. • High resistance or an open in the LED dimming signal circuit of the BCM. • Short to ground in the LED dimming signal circuit of the BCM. Did you find and correct the condition?	Go to Step 13	Go to Step 9
8	Inspect for poor connections at the harness connector of the affected lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the harness connector of the body control module. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Repair the controls illumination lamps dimming control circuit for a short to ground. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 13	-
11	Replace the affected lamp or internal lamp component. Did you complete the replacement?	Go to Step 13	-
	IMPORTANT: Perform the setup procedure for the BCM.		

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12	Replace the body control module (BCM). Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

PARK, LICENSE, AND TAIL LAMPS ALWAYS ON

Park, License, and Tail Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the park, license and tail lamps are always ON. Do the park, license and tail lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Remove the park lamp relay. Do the park lamps turn OFF?	Go to Step 4	Go to Step 9
4	1. Ensure that the headlamp switch is in the AUTO position and there is sufficient light to the ambient light sensor. 2. Test for a ground signal at the park lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> in Wiring Systems. Was a ground signal present?	Go to Step 5	Go to Step 10
5	Use the scan tool to check the body control module (BCM) parklamp switch input data. Does the scan tool indicate a park lamps OFF request signal?	Go to Step 8	Go to Step 6
6	Test for a short to ground in the park lamp switch signal circuit. Refer to <u>Circuit Testing Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 7
7	Inspect for poor connections at the harness connector of the headlamp switch. Refer to <u>Circuit Testing and Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 11

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8	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 12
9	Repair the short to voltage in one of the following circuits: • Front park lamp supply voltage • Trailer park lamps supply voltage • Right rear park lamps supply voltage • Left rear park lamps supply voltage • Interior park lamps supply voltage Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 13	-
10	Replace the park lamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the repair?	Go to Step 13	-
11	Replace the headlamp switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 13	-
12	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

PARK, LICENSE, AND TAIL LAMPS INOPERATIVE

Park, License, and Tail Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	Verify that the park, license and tail lamps are	Go to Testing for	

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2	inoperative. Do the park, license and tail lamps operate normally?	<u>Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are all park, license, and tail lamps inoperative?	Go to Step 6	Go to Step 4
4	Test the supply circuit of the inoperative lamp for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 5
5	Test the ground circuit of the inoperative lamp for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 11
6	1. Remove the park lamp relay. 2. Ensure that the headlamp switch is in the ON position. 3. Test for a ground signal at the park lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> in Wiring Systems. Was a ground signal present?	Go to Step 12	Go to Step 7
7	Use the scan tool to check the body control module (BCM) parklamp switch input data. Does the scan tool indicate a park lamps ON request signal?	Go to Step 10	Go to Step 8
8	Test for an open or high resistance in the park lamp switch signal circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 9
9	Inspect for poor connections at the harness connector of the headlamp switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 13
10	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 14
11	Replace the inoperative bulb. Did you complete the replacement?	Go to Step 15	-
12	Replace the park lamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the repair?	Go to Step 15	-

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13	Replace the headlamp switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 15	-
14	IMPORTANT: Perform the setup procedure for the BCM. Replace the BCM. Refer to <u>Body Control Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 15	-
15	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

READING LAMP(S) INOPERATIVE

Reading Lamp(s) Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Turn ON the reading lamps. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Test the inadvertent power supply voltage circuit of the reading lamp for a short to ground, high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 8	Go to Step 4
4	Test the ground circuit of the reading lamp for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 8	Go to Step 5
5	Inspect the inoperative bulb for an open filament. Is the bulb OK.	Go to Step 7	Go to Step 6
6	Replace the inoperative bulb. Refer to <u>Dome Lamp Replacement</u> . Did you complete the replacement?	Go to Step 8	-
7	Replace the dome lamp. Refer to <u>Dome Lamp Replacement</u> . Did you complete the replacement?	Go to Step 6	-
8	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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ROOF BEACON LAMP ALWAYS ON

Roof Beacon Lamp Always On

Step	Action	Yes	No
Schematic Reference: <u>Upfitter Provision Schematics</u> in Wiring Systems Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the roof beacon lamp is always on. Does the roof beacon lamp operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Disconnect the roof beacon relay. Does the roof beacon lamp turn off?	Go to Step 4	Go to Step 6
4	1. Reconnect the roof beacon relay. 2. Disconnect the roof beacon switch. Does the roof beacon lamp turn off?	Go to Step 7	Go to Step 5
5	Test the hazard switch signal circuit of the roof beacon switch for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 9	Go to Step 8
6	Repair the hazard flasher signal circuit of the roof beacon relay for a short to voltage. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 9	-
7	Replace the roof beacon switch. Did you complete the replacement?	Go to Step 9	-
8	Replace the roof beacon relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the replacement?	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

ROOF BEACON LAMP INOPERATIVE

Roof Beacon Lamp Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Upfitter Provision Schematics</u> in Wiring Systems Connector End View Reference: <u>Lighting Systems Connector End Views</u>			

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1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the roof beacon lamp is inoperative. Does the roof beacon lamp operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	- Place the roof beacon switch in the ON position. - Connect a test lamp between the power and ground circuits of the roof beacon lamp connector. Does the test lamp illuminate?	Go to Step 8	Go to Step 4
4	Test the ground circuit of the roof beacon lamp for a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 5
5	- Remove the roof beacon switch. - Place a fused jumper between the hazard switch signal and battery positive voltage circuits of the roof beacon switch connector terminals. Does the roof beacon lamp illuminate?	Go to Step 9	Go to Step 6
6	Test the following circuits for a high resistance, open or a short to ground: - Battery positive voltage circuit of the switch - Battery positive voltage circuit of the relay - Hazard switch signal circuit of the relay - Hazard flasher signal circuit of the relay Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 7
7	Test the ground circuit of the roof beacon relay for a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 10
8	Replace the bulb or lamp assembly. Refer to upfitter instructions. Did you complete the replacement?	Go to Step 11	-
	Replace the roof beacon switch.		

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9	Did you complete the replacement?	Go to Step 11	-
10	Replace the roof beacon relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. Did you complete the replacement?	Go to Step 11	-
11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

STOP LAMPS ALWAYS ON

Stop Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Depress the brake pedal. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Disconnect the stop lamp switch. Do the brake lamps go out?	Go to Step 6	Go to Step 4
4	Remove the CHMSL fuse. Do the brake lamps go out?	Go to Step 7	Go to Step 5
5	Remove the STOP fuse. Do the brake lamps go out?	Go to Step 8	Go to Step 9
6	Inspect for poor connections at the harness connector of the switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 11	Go to Step 10
7	Repair the short to voltage in the CHMSL supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 11	-
8	Repair the short to voltage in the stop lamp switch signal circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 11	-
9	Repair the short to voltage in the stop lamp supply voltage circuit. Refer to <u>Wiring Repairs</u> in Wiring Systems.		

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	Did you complete the repair?	Go to Step 11	-
10	Replace the stop lamp switch. Refer to <u>Stop Lamp Switch Replacement</u> . Did you complete the replacement?	Go to Step 11	-
11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

STOP LAMPS INOPERATIVE

Stop Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Observe the stop lamps while pressing the brake pedal. Does the system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Are all the stop lamps inoperative?	Go to Step 6	Go to Step 4
4	Test the supply voltage circuit of the inoperative lamp for high resistance, an open, or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 5
5	Test the ground circuit of the inoperative lamp for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 8
6	Test the battery positive circuit of the stoplamp switch for high resistance, an open or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 7
7	Test the stop lamp switch signal circuit of the stoplamp switch for a short to ground, high resistance or an open. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 9
8	Inspect for poor connections at the harness connector of the bulb or high mount stop lamp. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems.		

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	Did you find and correct the condition?	Go to Step 12	Go to Step 10
9	Inspect for poor connections at the harness connector of the switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 11
10	Replace the stop lamp. Refer to <u>Tail/Turn Signal Lamp Replacement</u> or <u>High Mounted Stop Lamp Replacement (Utility)</u> or <u>High Mounted Stop Lamp Replacement (Cadillac)</u> or <u>High Mounted Stop Lamp Replacement (Escalade EXT)</u> or <u>High Mounted Stop Lamp Replacement (Avalanche)</u> . Did you complete the replacement?	Go to Step 12	-
11	Replace the stop lamp switch. Refer to <u>Stop Lamp Switch Replacement</u> . Did you complete the replacement?	Go to Step 12	-
12	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

TURN SIGNAL LAMPS AND/OR INDICATORS ALWAYS ON OR FLASHING

Turn Signal Lamps and/or Indicators Always On or Flashing

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn ON the ignition, with the engine OFF. 2. Operate the turn signal switch in both the left and right hand turn signal positions. Does the turn signal system operate normally?	Go to <u>Testing for Electrical Intermittents</u> in Wiring Systems	Go to Step 3
3	Test the appropriate turn signal bulb supply voltage circuit for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 4
4	1. Disconnect the turn signal/hazard flasher module. 2. Connect a test lamp between the appropriate turn signal switch signal circuit terminal of the turn signal/hazard flasher module connector and a good ground.		

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	Does the test lamp illuminate?	Go to Step 5	Go to Step 6
5	Test the appropriate turn signal switch signal circuit for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 7
6	Inspect for poor connections at the harness connector of the turn signal/hazard flasher module. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 8
7	Inspect for poor connections at the harness connector of the turn/hazard switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 10	Go to Step 9
8	Replace the turn signal/hazard flasher module. Did you complete the replacement?	Go to Step 10	-
9	Replace the multifunction, turn signal and hazard switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

TURN SIGNAL LAMPS AND/OR INDICATORS INOPERATIVE

Turn Signal Lamps and/or Indicators Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	Verify that the turn signal lamps and/or indicators are inoperative. Do the turn signal lamps and/or indicators operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are only the turn signal indicators in the instrument panel cluster (IPC) inoperative?	Go to Step 4	Go to Step 5
4	Test the inoperative turn signal supply voltage circuit to the IPC for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems.		

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	Did you find and correct the condition?	Go to Step 21	Go to Step 13
5	Is only one turn signal lamp inoperative?	Go to Step 6	Go to Step 8
6	Inspect the inoperative bulb/socket for an internal short, poor terminal contact, or an open filament. Was a problem found?	Go to Step 18	Go to Step 7
7	Test for an open, high resistance, or short to ground in the turn signal lamp supply voltage circuit. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 16
8	Inspect the IGN E fuse and the FLASHER fuse. Is either fuse open?	Go to Step 11	Go to Step 9
9	Test for an open or high resistance in the following circuits: • The turn/hazard flasher battery positive supply voltage • The turn/hazard flasher ground • The turn signal switch ignition 1 supply voltage Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 10
10	1. Disconnect the multifunction switch, turn signal switch. 2. Test the multifunction turn signal switch for continuity between the multifunction turn signal switch ignition 1 voltage input terminal and the turn signal flasher signal output terminal in each respective position. Refer to Circuit Testing in Wiring Systems. Is continuity present?	Go to Step 12	Go to Step 14
11	Test the following circuits for a short to ground: • The multifunction turn signal switch ignition 1 voltage • The turn/hazard flasher supply voltage • The left turn signal switch signal • The right turn signal switch signal • The left turn signal lamps supply voltage • The right turn signal lamps supply voltage		

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	• The trailer left rear turn/stop lamp supply voltage • The trailer right rear turn/stop lamp supply voltage Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 14
12	Test the following circuits for an open or high resistance: • The multifunction turn signal switch ignition 1 voltage • The turn/hazard flasher supply voltage • The left turn signal switch signal • The right turn signal switch signal • The left turn signal lamps supply voltage • The right turn signal lamps supply voltage • The trailer left rear turn/stop lamp supply voltage • The trailer right rear turn/stop lamp supply voltage Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 15
13	Inspect for poor connections at the IPC. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 17
14	Inspect for poor connections at the multifunction turn signal switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 19
15	Inspect for poor connections at the turn signal/hazard flasher module. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 21	Go to Step 20
	Repair the ground circuit of the inoperative lamp.		

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16	Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	Go to Step 21	-
17	IMPORTANT: Perform the set up procedure for the IPC. Replace the IPC. Refer to Instrument Panel Cluster (IPC) Replacement in Instrument Panel, Gages, and Console. Did you complete the repair?	Go to Step 21	-
18	Replace or repair the inoperative bulb/socket. Did you complete the repair?	Go to Step 21	-
19	Replace the multifunction turn signal switch. Refer to Multifunction, Turn Signal Switch Replacement in Steering Wheel and Column. Did you complete the repair?	Go to Step 21	-
20	Replace the turn signal/hazard flasher module. Did you complete the repair?	Go to Step 21	-
21	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

VANITY MIRROR LAMP(S) INOPERATIVE

Vanity Mirror Lamp(s) Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Body Control System Connector End Views</u> in Body Control System.			
1	Did you perform the Lighting Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	Turn ON the vanity mirror lamp. Does the system operate normally?	Go to Testing for Electrical Intermittents in Wiring Systems	Go to Step 3
3	Are all of the reading, visor and I/P compartment lamps inoperative?	Go to Step 4	Go to Step 6
4	Is the TBC 2C Fuse in the I/P fuse block open?	Go to Step 5	Go to Step 6
5	Test the battery positive voltage circuit of the BCM for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 9
6	Test the inadvertent power supply voltage circuit of the vanity lamp for a short to ground, high resistance or an open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 7

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7	Test the ground circuit of the vanity lamp for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 8
8	Inspect the inoperative bulb for an open filament. Is the bulb OK?	Go to Step 11	Go to Step 10
9	Repair the inadvertent power supply voltage circuit for a short to ground. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 12	-
10	Replace the inoperative bulb. Did you complete the replacement?	Go to Step 12	-
11	Replace the sunshade. Refer to <u>Sunshade Replacement</u> in Interior Trim. Did you complete the replacement?	Go to Step 12	-
12	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3