

2004 ACCESSORIES & EQUIPMENT

Lighting Systems (Troubleshooting) - SRX

TROUBLESHOOTING

SYMPTOMS - LIGHTING SYSTEMS

IMPORTANT: The following steps must be completed before using the symptom table.

- 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.
- Review the system description and operation in order to familiarize yourself with the system functions. Refer to the following:
 - **Interior Lighting Systems Description and Operation**
 - **Exterior 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 (Automatic Transmission)**
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- **Backup Lamps Inoperative (Automatic Transmission)**

- Courtesy Lamps Always On
- Courtesy Lamps Inoperative
- Daytime Running Lamps (DRL) Always On (Domestic/Canada) or Daytime Running Lamps (DRL) Always On (Norway/Sweden)
- Daytime Running Lamps (DRL) Inoperative (Domestic/Canada) or Daytime Running Lamps (DRL) Inoperative (Norway/Sweden)
- Fog Lamp Indicator Always On
- Fog Lamp Indicator Inoperative
- Fog Lamp Indicator Always On - Rear
- 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 (Standard or w/TR7-TT6) or Headlamps Inoperative - Low Beams (w/Leveling (TR7) and HID (TT6)) or Headlamps Inoperative - Low Beams (w/HID (TT6))
- Headlamps Inoperative - Flash to Pass
- Headlamps Suggested Message On in Daylight Conditions
- Headlight Leveling Inoperative
- High Beam Indicator Always On
- High Beam Indicator Inoperative
- Interior Backlighting Does Not Dim
- Interior Backlighting Inoperative
- License Lamps Inoperative
- Lights On Indicator Always On
- Lights On Indicator Inoperative
- Park Lamps Always On

- **Park Lamps Inoperative**
- **Position Lamps Inoperative**
- **Reading Lamp(s) Inoperative**
- **Repeater Lamps 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**
- **Twilight Sentinel Inoperative**
- **Vanity Mirror Lamp(s) Always On**
- **Vanity Mirror Lamp(s) Inoperative**

BACKUP LAMPS ALWAYS ON (AUTOMATIC TRANSMISSION)

Test Description

The number below refers to the step number on the diagnostic table.

3: Listen for an audible click when the reverse relay operates. Command both the ON and OFF states. Repeat the commands as necessary.

Backup Lamps Always On (Automatic Transmission)

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Depress and hold the brake pedal. 3. Move the gear selector through the gear ranges. 4. Observe the backup lamps. 5. Place the gear selector in the PARK	Go to <u>Testing for Intermittent</u>	

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	position. 6. Release the brake pedal. Did the backup lamps operate properly?	<u>Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With the scan tool, command the Reverse Lamp Relay ON and OFF from the rear integration module (RIM) Output Control data list. Does the reverse relay turn ON and OFF with each command?	Go to Step 4	Go to Step 5
4	1. Turn OFF the ignition. 2. Disconnect the reverse relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. 3. Turn ON the ignition, with the engine OFF. Do the backup lamps turn OFF?	Go to Step 5	Go to Step 7
5	1. Turn OFF the ignition. 2. Connect a test lamp between the reverse relay control side supply voltage circuit and the reverse lamp relay control circuit. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, command the Reverse Lamp Relay ON and OFF. Does the test lamp turn ON and OFF with each command?	Go to Step 8	Go to Step 6
	Test the reverse lamp relay control circuit for a short ground. Refer to <u>Circuit Testing</u> and		

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6	Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 9
7	Test the backup lamp supply voltage circuit for a short to battery positive voltage. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 8
8	Inspect for poor connections at the reverse lamp relay. 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 12	Go to Step 10
9	Inspect for poor connections at the harness connector of the RIM. 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 12	Go to Step 11
10	Replace the reverse 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 12	-
11	IMPORTANT: After replacement perform the setup procedure for the RIM. Refer to Body Control Module (BCM) Programming/RPO Configuration (RIM) or Body Control Module (BCM) Programming/RPO Configuration (DIM) in Body Control System. Replace the RIM. Refer to Rear Integration Module Replacement in Body Control System. 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 2

BACKUP LAMPS INOPERATIVE (AUTOMATIC TRANSMISSION)

Test Description

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The numbers below refer to the step numbers on the diagnostic table.

- 3:** Listen for an audible click when the reverse relay operates. Command both the ON and OFF states. Repeat the commands as necessary.
- 4:** Tests for voltage at the control side of the reverse relay.
- 5:** Verifies that the control module is providing ground to the reverse relay.

Backup Lamps Inoperative (Automatic Transmission)

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u>			
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. Turn ON the ignition, with the engine OFF. 2. Depress and hold the brake pedal. 3. Move the gear selector through the gear ranges. 4. Observe the backup lamps. 5. Place the gear selector in the PARK position. 6. Release the brake pedal. Did the backup lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With the scan tool, command the Reverse Lamp Relay ON and OFF from the rear integration module (RIM) Output Control data list. Does the reverse lamp relay turn ON and OFF with each command?	Go to Step 6	Go to Step 4

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4	1. Turn OFF the ignition. 2. Disconnect the reverse relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. 3. Turn ON the ignition, with the engine OFF. 4. Probe the reverse relay control side supply voltage circuit with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 5	Go to Step 14
5	1. Turn OFF the ignition. 2. Connect a test lamp between the reverse relay control side supply voltage circuit and the reverse lamp relay control circuit. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, command the Reverse Lamp Relay ON and OFF. Does the test lamp turn ON and OFF with each command?	Go to Step 12	Go to Step 9
6	Probe the reverse relay switch side supply voltage circuit with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 7	Go to Step 15
7	Connect a 10-amp fused jumper between the reverse relay switch side supply voltage circuit and the backup lamp supply voltage circuit. Do both of the backup lamps illuminate?	Go to Step 12	Go to Step 8
8	1. Turn OFF the ignition. 2. Remove the inoperative backup lamp bulb. 3. Connect a test lamp between the backup lamp supply voltage circuit and the		

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	backup lamp ground circuit. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 11	Go to Step 10
9	Test the reverse lamp relay control circuit for an open or a short to battery positive 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 20	Go to Step 13
10	Test the backup lamp supply voltage circuit 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 20	Go to Step 16
11	Inspect for poor connections at the backup lamp bulb. 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 20	Go to Step 18
12	Inspect for poor connections at the reverse 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 20	Go to Step 17
13	Inspect for poor connections at the harness connector of the RIM. 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 20	Go to Step 19
14	Repair the open circuit in the reverse relay control side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 20	-
	Repair the open circuit in the reverse relay switch side supply voltage circuit. Refer to		

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15	<u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 20	-
16	Repair the open circuit in the backup lamp ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 20	-
17	Replace the reverse 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 20	-
18	Replace the backup lamp bulb. Did you complete the replacement?	Go to Step 20	-
19	IMPORTANT: After replacement perform the setup procedure for the RIM. Refer to <u>Body Control Module (BCM) Programming/RPO Configuration (RIM)</u> or <u>Body Control Module (BCM) Programming/RPO Configuration (DIM)</u> in Body Control System. Replace the RIM. Refer to <u>Rear Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 20	-
20	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

COURTESY LAMPS ALWAYS ON

Courtesy Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> and <u>Door Control Module Schematics</u> and <u>Door Lock/Indicator Schematics</u> in Doors. Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	1. Close all the doors and the rear		

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2	compartment lid. 2. Turn OFF the courtesy lamp switch. 3. Turn ON the ignition, with the engine OFF. Are the courtesy lamps ON?	Go to Step 3	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems
3	1. Turn OFF the ignition. 2. Install a scan tool. 3. Turn ON the ignition, with the engine OFF. 4. Close all the doors and the rear compartment lid. 5. With a scan tool, observe the Door Jamb Sw. parameters in each of the door modules inputs data list. 6. With a scan tool, observe the Liftgate Lighting Switc parameter in the rear integration module (RIM) inputs data list. Does the scan tool indicate that the Door Jamb Sw. and Liftgate Lighting Switc parameters are all OFF?	Go to Step 4	Go to Step 6
4	1. Ensure the Courtesy Lamp Switch is OFF. 2. With a scan tool, observe the Courtesy Lamp Switch parameter in the dash integration module (DIM) Inputs data list. Does the scan tool display OFF?	Go to Step 9	Go to Step 5
5	1. Turn OFF the ignition. 2. Disconnect the I/P dimmer switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, observe the Courtesy Lamp Switch parameter. Does the scan tool display OFF?	Go to Step 10	Go to Step 8

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6	1. Turn OFF the ignition. 2. Disconnect the inoperative door lock actuator or door latch assembly - liftgate. 3. Turn on the ignition, with the engine OFF. 4. With a scan tool, observe the appropriate Door Jamb Switch or Liftgate Lighting Switc parameter. Does the scan tool indicate that the Door Jamb Sw. or Liftgate Lighting Switc parameter is OFF?	Go to Step 11	Go to Step 7
7	Test the appropriate door open switch signal circuit of the inoperative door lock actuator or the rear compartment lid ajar switch circuit of the door latch assembly - liftgate 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 20	Go to Step 12
8	Test the courtesy lamp on 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 20	Go to Step 13
9	Test the courtesy lamp 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 20	Go to Step 14
10	Inspect for poor connections at the harness connector of the I/P 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 20	Go to Step 15
11	Inspect for poor connections at the harness connector of the appropriate door lock actuator or door latch assembly - liftgate. 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 20	Go to Step 16
12	Inspect for poor connections at the harness connector of the appropriate door module or RIM. 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 20	Go to Step 17
13	Inspect for poor connections at the harness connector of the DIM. 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 20	Go to Step 18
14	Inspect for poor connections at the harness connector of the RIM. 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 20	Go to Step 19
15	Replace I/P dimmer switch. Refer to <u>Instrument Panel (I/P) Dimmer Switch Replacement</u> . Did you complete the replacement?	Go to Step 20	-
16	Replace the appropriate door lock actuator or door latch assembly - liftgate. Refer to <u>Latch Replacement - Front Door</u> or <u>Latch Replacement - Rear Door</u> in Doors and <u>Latch Replacement - Liftgate</u> in Body Rear End. Did you complete the replacement?	Go to Step 20	-
17	IMPORTANT: Perform the setup procedure for the RIM. Replace the inoperative door module or the RIM. Refer to <u>Door Control Module Replacement</u> in Doors or <u>Rear Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 20	-
	IMPORTANT:		

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	Perform the setup procedure for the DIM.		
18	Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 20	-
	IMPORTANT: Perform the setup procedure for the RIM.		
19	Replace the RIM. Refer to <u>Rear Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 20	-
20	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

COURTESY LAMPS INOPERATIVE

Courtesy Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> and <u>Door Control Module Schematics</u> and <u>Door Lock/Indicator Schematics</u> in Doors. Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	IMPORTANT: The sunload sensor assembly must indicate low light conditions for the interior lamps to operate. - Cover the sunload sensor assembly. - Turn ON the ignition, with the engine OFF. - Observe the courtesy lamps. - Open and Close all of the doors and the rear compartment lid. - Turn the interior lamp switch ON and OFF. - Turn OFF the ignition.	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in	

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	Do the courtesy lamps operate properly?	Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Observe the Photocell parameter in the climate control panel (CCP) Lighting data list. 4. Cover the sunload sensor assembly. Does the Photocell voltage change?	Go to Step 4	Go to <u>Twilight Sentinel Inoperative</u>
4	With a scan tool command the Courtesy Lamp 1, 2 w/o dim output ON from the rear integration module (RIM) Output Control data list. Do all of the interior courtesy lamps turn ON?	Go to Step 6	Go to Step 5
5	Are all of the interior courtesy lamps inoperative?	Go to Step 10	Go to Step 14
6	1. Turn the interior lamp switch ON. 2. With a scan tool, observe the Courtesy Lamp Switch parameter in the dash integration module (DIM) Lighting data list. Does the scan tool display ON?	Go to Step 7	Go to Step 8
7	1. Open all the doors and the rear compartment lid. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, observe all the Door Jamb Sw. parameters in the door modules Inputs data lists. 4. With a scan tool, observe the Liftgate Lighting Switc parameter in the RIM inputs data list. Does the scan tool display ON for all the Door Jamb Sw. and the Liftgate Lighting Switc parameters?	Go to Step 37	Go to Step 9
	1. Disconnect the I/P dimmer switch. 2. Connect a 3-amp fused jumper between the courtesy lamps switch on signal circuit of		

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8	the interior lamp switch and the ground circuit of the interior lamp switch. 3. With a scan tool observe the Courtesy Lamp Switch parameter. Does the scan tool display ON?	Go to Step 25	Go to Step 15
9	1. Turn OFF the ignition. 2. Disconnect the inoperative door lock actuator or door latch assembly - liftgate. 3. Connect a 3-amp fused jumper between the door open switch signal circuit of the door lock actuator or the rear compartment lid ajar switch circuit of the door latch assembly - liftgate and the ground circuit of the door lock actuator or door latch assembly - liftgate. 4. Turn ON the ignition, with the engine OFF. 5. With a scan tool, observe the appropriate inoperative Door Jamb Sw. or Liftgate Lighting Switc input parameter. Does the scan tool display ON for the appropriate input?	Go to Step 23	Go to Step 17
10	1. Turn OFF the ignition. 2. Disconnect the interior lamp relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems 3. Turn ON the ignition, with the engine OFF. 4. Probe the interior lamp relay control side supply voltage circuit with a test lamp that connected to a good ground. Does the test lamp illuminate?	Go to Step 11	Go to Step 30
	Probe the interior lamp relay switch side supply		

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11	voltage circuit with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 12	Go to Step 29
12	1. Connect a test lamp between the interior lamp relay control side supply voltage circuit and the courtesy lamp relay control circuit. 2. With a scan tool command the Courtesy Lamp 1, 2 w/o dim output ON and OFF. Does the test lamp turn ON and OFF with each command?	Go to Step 13	Go to Step 21
13	1. Connect a 10-amp fused jumper between the switch side supply voltage circuit of the interior lamp relay and the courtesy lamp supply voltage circuit of the interior lamp relay. 2. With a scan tool, command the Courtesy Lamp 1, 2 w/o dim ON. Do the interior lamps illuminate?	Go to Step 22	Go to Step 19
14	1. Turn ON the courtesy lamps. 2. Remove the inoperative courtesy lamp bulb. 3. Connect a test lamp between the inoperative courtesy lamp supply voltage circuit and the ground circuit of the inoperative courtesy lamp. Does the test lamp illuminate?	Go to Step 28	Go to Step 19
15	Test the courtesy lamp switch on signal circuit for high resistance, open or short to power. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 38	Go to Step 16
16	Test the interior lamp switch ground circuit for 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 38	Go to Step 26

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17	Test the appropriate door open switch signal circuit of the inoperative door lock actuator or the rear compartment lid ajar switch circuit of the door latch assembly - liftgate 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 38	Go to Step 18
18	Test the inoperative door jamb switch or door latch assembly - liftgate ground circuit for 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 38	Go to Step 24
19	Test the interior lamp supply voltage circuit for an open, 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 the condition?	Go to Step 38	Go to Step 20
20	Test the courtesy lamp control circuit for an open or 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 38	Go to Step 27
21	Test the relay control circuit 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 38	Go to Step 27
22	Inspect for poor connections at the interior lamp 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 38	Go to Step 31
23	Inspect for poor connections at the harness connector of the appropriate door lock actuator or door latch assembly - liftgate. 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 38	Go to Step 32
	Inspect for poor connections at the harness		

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24	connector of the appropriate door module or RIM. 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 38	Go to Step 33
25	Inspect for poor connections at the harness connector of the I/P 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 38	Go to Step 34
26	Inspect for poor connections at the harness connector of the DIM. 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 38	Go to Step 35
27	Inspect for poor connections at the harness connector of the RIM. 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 38	Go to Step 36
28	Inspect for poor connections at the inoperative courtesy lamp bulb. 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 38	Go to Step 37
29	Repair the open, high resistance or short to ground in the switch side supply voltage circuit of the interior lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 38	-
30	Repair the high resistance or open in the control side supply voltage circuit of the interior lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems.		

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	Did you complete the repair?	Go to Step 38	-
31	Replace the interior 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 replacement?	Go to Step 38	-
32	Replace the appropriate door lock actuator or door latch assembly - liftgate. Refer to <u>Latch Replacement - Front Door</u> or <u>Latch Replacement - Rear Door</u> in Doors and <u>Latch Replacement - Liftgate</u> in Body Rear End. Did you complete the replacement?	Go to Step 38	-
33	IMPORTANT: Perform the setup procedure for the RIM. Replace the inoperative door module or the RIM. Refer to <u>Door Control Module Replacement</u> in Doors or <u>Rear Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 38	-
34	Replace I/P dimmer switch. Refer to <u>Instrument Panel (I/P) Dimmer Switch Replacement</u> . Did you complete the replacement?	Go to Step 38	-
35	IMPORTANT: After replacement perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 38	-
36	IMPORTANT: After replacement perform the setup procedure for the RIM. Replace the RIM. Refer to <u>Rear Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 38	-
37	Replace the inoperative courtesy lamp bulb. Did you complete the replacement?	Go to Step 38	-

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38	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2
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DAYTIME RUNNING LAMPS (DRL) ALWAYS ON (DOMESTIC/CANADA)

Daytime Running Lamps (DRL) Always On (Domestic/Canada)

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> DEFINITION: This table is for vehicles equipped with park lamp daytime running lamps.			
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. Turn ON the ignition, with the engine OFF. 2. Place the gear selector in the PARK position. Do the daytime running lamps remain illuminated?	Go to Step 3	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems
3	With a scan tool, observe the Daytime Running Lamp parameter in the dash integration module (DIM) Outputs data list. Does the scan tool indicate that the Daytime Running Lamp parameter is OFF?	Go to Step 4	Go to Step 8
4	1. Turn OFF the ignition. 2. Disconnect the turn signal/hazard/flasher module. 3. Connect a test lamp between the daytime running lights (DRL) control circuit at the turn signal/hazard/flasher module connector and battery positive voltage. 4. Turn ON the ignition, with the engine OFF. 5. With a scan tool, command the Daytime		

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	Running Lamps output control parameter in the DIM output control list ON and OFF several times. Does the test lamp turn ON and OFF with each command?	Go to Step 5	Go to Step 6
5	With the turn signal/hazard/flasher module disconnected are both DRL lamps OFF?	Go to Step 7	Go to Step 9
6	Test the DRL control circuit for a open or 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 8
7	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>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 12	Go to Step 10
8	Inspect for poor connections at the harness connector of the DIM. 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 short to power in the appropriate front turn signal output control circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 12	-
10	Replace the turn signal/hazard/flasher module. Refer to <u>Hazard and Turn Signal Flasher Replacement</u> . Did you complete the replacement?	Go to Step 12	-
11	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control Systems.Did you complete the replacement?	Go to Step 12	-

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12	Operate the system in order to verify the repair. Did you complete the repair?	System OK	Go to Step 2
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DAYTIME RUNNING LAMPS (DRL) ALWAYS ON (NORWAY/SWEDEN)

Daytime Running Lamps (DRL) Always On (Norway/Sweden)

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> DEFINITION: This table is for export vehicles that utilize the low beam headlamps and park lamps as daytime running lamps.			
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. Turn ON the ignition, with the engine OFF. 2. Turn the headlamp switch to the OFF position. 3. Expose the ambient light sensor to a bright light. 4. Place the gear selector in the PARK position. Do the daytime running lamps remain illuminated?	Go to Step 3	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems
3	With a scan tool, observe the Daytime Running Lamp parameter in the dash integration module (DIM) outputs data list. Does the scan tool indicate that the Daytime Running Lamp parameter is OFF?	Go to Step 4	Go to Step 8
4	1. Turn OFF the ignition. 2. Disconnect the daytime running lights (DRL) relay. 3. Turn ON the ignition, with the engine OFF.		

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	Do the daytime running lamps remain illuminated?	Go to Step 9	Go to Step 5
5	1. Turn OFF the ignition. 2. Connect a test lamp between the DRL relay coil side supply voltage circuit and the DRL relay control circuit. 3. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 6	Go to Step 7
6	Test the DRL 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 12	Go to Step 8
7	Inspect for poor connections at 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 12	Go to Step 10
8	Inspect for poor connections at the DIM. 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 short to battery voltage in the headlamp low beam supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 12	-
10	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 12	-
11	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration</u>		

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	Module Replacement in Body Control System. 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 2

DAYTIME RUNNING LAMPS (DRL) INOPERATIVE (DOMESTIC/CANADA)

Daytime Running Lamps (DRL) Inoperative (Domestic/Canada)

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> DEFINITION: This table is for vehicles equipped with park lamp daytime running lamps.			
1	Did you perform the Lighting System Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	1. Turn ON the ignition, with the engine OFF. 2. Verify that the headlamp switch is in the OFF position. 3. Verify that the fog lamp switch is in the OFF position. 4. Verify that the hazard switch is in the OFF position. 5. Verify that the windshield wipers is in the OFF position. 6. Expose the ambient light sensor to a bright light. 7. Press and hold the brake pedal. 8. Move the gear selector out of the PARK position. 9. Wait more than 3 seconds. Do the daytime running lights (DRL) headlamps operate properly?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
	Do the hazard flashers operate properly?		Go to Hazard

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3		Go to Step 4	<u>Lamps Inoperative</u>
4	With a scan tool, observe the Daytime Running Lamp parameter in the dash integration module (DIM) Outputs data list. Does the scan tool display ON?	Go to Step 5	Go to Step 8
5	1. Turn OFF the ignition. 2. Connect a test lamp between the DRL relay control circuit at the turn signal/hazard/flasher module and battery positive voltage. 3. With a scan tool command the Daytime Running Lamps ON and OFF several times from the DIM output control data list. Does the test lamp turn ON and OFF with each command?	Go to Step 7	Go to Step 6
6	Test the DRL relay control circuit for an open or short to battery 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 11	Go to Step 8
7	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>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 DIM. 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
9	Replace the turn signal/hazard/flasher module. Refer to <u>Hazard and Turn Signal Flasher Replacement</u> .		

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	Did you complete the replacement?	Go to Step 11	-
10	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control 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 2

DAYTIME RUNNING LAMPS (DRL) INOPERATIVE (NORWAY/SWEDEN)

Daytime Running Lamps (DRL) Inoperative (Norway/Sweden)

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> DEFINITION: This table is for export vehicles that utilize the low beam headlamps and park lamps as daytime running lamps.			
1	Was the Lighting System Diagnostic System Check performed?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn ON the ignition, with the engine OFF. 2. Press and hold the brake pedal. 3. Move the gear selector out of the PARK position. 4. Verify that the headlamp switch is in the OFF position. 5. Expose the ambient light sensor to a bright light. 6. Wait more than 3 seconds. Do the DRL headlamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
	1. With a scan tool, select the Daytime Running Lamp parameter from the		

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3	Special Functions Output Controls data list. 2. Command the Daytime Running Lamp output control ON and OFF. Do the daytime running lights (DRL) turn ON and OFF with each command?	Go to Step 10	Go to Step 4
4	Do the low beam headlamps function properly?	Go to Step 5	Go to <u>Headlamps Inoperative - Low Beams (Standard or w/TR7-TT6)</u> or <u>Headlamps Inoperative - Low Beams (w/Leveling (TR7) and HID (TT6))</u> or <u>Headlamps Inoperative - Low Beams (w/HID (TT6))</u>
5	1. Turn OFF the ignition. 2. Disconnect the DRL relay. 3. Connect a test lamp between the DRL relay control side supply voltage circuit and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 6	Go to Step 13
6	Connect a test lamp between the DRL relay switch side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 7	Go to Step 14
	1. Connect a test lamp between the DRL relay control side supply voltage circuit		

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7	and the DRL relay control circuit at the DRL relay connector. 2. With a scan tool, command the Daytime Running Lamps ON and OFF. Does the test lamp turn ON and OFF with each command?	Go to Step 8	Go to Step 9
8	1. Turn OFF the ignition. 2. Connect a 10-amp fused jumper between the DRL relay switch side supply voltage circuit and the DRL headlamp supply voltage circuit. 3. Turn ON the ignition, with the engine OFF. Do the DRL headlamps illuminate?	Go to Step 11	Go to Step 15
9	Test the DRL relay control circuit for 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 18	Go to Step 12
10	With a scan tool, observe the Photocell status in the climate control panel (CCP) Inputs data list. Does the scan tool display a Light status?	Go to Step 12	Go to <u>Twilight Sentinel Inoperative</u>
11	Inspect for poor connections at 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 18	Go to Step 16
12	Inspect for poor connections at the dash integration module (DIM). 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 18	Go to Step 17
13	Repair the open in the DRL relay control side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring		

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	Systems. Did you complete the repair?	Go to Step 18	-
14	Repair the open in the DRL relay switch side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 18	-
15	Repair the open in the DRL headlamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 18	-
16	Replace the DRL relay. Refer <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 18	-
17	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Controls System. Did you complete the replacement?	Go to Step 18	-
18	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

FOG LAMP INDICATOR ALWAYS ON

Fog Lamp Indicator Always On

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting System Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the low beam headlamps. 3. Turn ON the front fog lamps.	Go to Testing	

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2	4. Observe the front fog lamp indicator. 5. Turn the front fog lamps ON and OFF. Did the front fog lamp indicator operate properly?	<u>for Intermittent Conditions and Poor Connections in Wiring Systems</u>	Go to Step 3
3	Did the fog lamps operate properly?	Go to Step 4	Go to <u>Fog Lamps Always On</u>
4	Inspect for poor connections at the harness connector of the instrument panel cluster (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 6	Go to Step 5
5	Replace the IPC. Refer to <u>Instrument Panel Cluster (IPC) Replacement</u> in Instrument Panel, Gages and Console. Did you complete the repair?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

FOG LAMP INDICATOR INOPERATIVE

Fog Lamp Indicator Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Turn ON the low beam headlamps. 3. Observe the front fog lamp indicator. 4. Turn the front fog lamps ON and OFF.	Go to <u>Testing for Intermittent Conditions and Poor</u>	

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	Did the fog lamp indicator operate properly?	<u>Connections</u> in Wiring Systems	Go to Step 3
3	Did the fog lamps operate properly?	Go to Step 4	Go to Fog Lamps Inoperative
4	Inspect for poor connections at the harness connector of the instrument panel cluster (IPC). 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 IPC. Refer to Instrument Panel Cluster (IPC) Replacement in Instrument Panel, Gages and Console. 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 2

FOG LAMP INDICATOR ALWAYS ON - REAR

Fog Lamp Indicator Always On - Rear

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting System Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the low beam headlamps. 3. Turn ON the front fog lamps. 4. Observe the rear fog lamp indicator. 5. Turn ON and OFF the rear fog lamps. Did the rear fog lamp indicator operate properly?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
	Did the rear fog lamps operate properly?		Go to Fog

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3		Go to Step 4	<u>Lamps Always On - Rear</u>
4	Inspect for poor connections at the harness connector of the instrument panel cluster (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 6	Go to Step 5
5	Replace the IPC. Refer to <u>Instrument Panel Cluster (IPC) Replacement</u> in Instrument Panel, Gages and Console. Did you complete the repair?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

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>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Turn ON the low beam headlamps. 3. Turn ON the front fog lamps. 4. Observe the rear fog lamp indicator. 5. Turn ON and OFF the rear fog lamps. Did the rear fog lamp indicator operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Did the rear fog lamps operate properly?	Go to Step 4	Go to <u>Fog Lamps Inoperative - Rear</u>

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4	Inspect for poor connections at the harness connector of the instrument panel cluster (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 6	Go to Step 5
5	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 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

FOG LAMPS ALWAYS ON

Fog Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Turn ON the low beam headlamps. 3. Observe the front fog lamps. 4. Turn ON and OFF the front fog lamps. 5. Turn OFF the ignition. Did the front fog lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Position the front fog lamp switch to the OFF position. 4. With a scan tool, observe the Front Fog		

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	Lamp Switch parameter in the dash integration module (DIM) Inputs data list.		
	Does the scan tool indicate that the front fog lamp switch parameter is Idle?	Go to Step 4	Go to Step 7
4	With a scan tool, observe the Front Fog Lamp Relay status in the DIM Outputs data list. Does the scan tool indicate the fog lamp relay parameter is Off?	Go to Step 5	Go to Step 11
5	1. Turn OFF the ignition. 2. Disconnect the 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. 3. Turn ON the ignition, with the engine OFF.		
	Did the fog lamps turn OFF?	Go to Step 6	Go to Step 14
6	1. Turn OFF the ignition. 2. Connect a test lamp between the fog lamp relay control side supply voltage circuit and the fog lamp relay control circuit. 3. Turn ON the ignition, with the engine OFF.		
	Does the test lamp illuminate?	Go to Step 8	Go to Step 13
7	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool observe the Front Fog Lamp Switch parameter.		
	Does the scan tool indicate the Front Fog Lamp Switch parameter is Idle?	Go to Step 10	Go to Step 9

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8	Test for a short to ground in the fog lamp relay control 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 18	Go to Step 11
9	Test the front fog lamp 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 18	Go to Step 11
10	Test the front fog lamp switch signal circuit 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 18	Go to Step 12
11	Inspect for poor connections at the harness connector of the DIM. 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 18	Go to Step 15
12	Inspect for poor connections at the harness connector of 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 18	Go to Step 16
13	Inspect for poor connections at the fog lamp 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 18	Go to Step 17
14	Repair the short to voltage in the front fog lamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did to complete the repair?	Go to Step 18	-
15	IMPORTANT: Perform the setup procedure for the DIM.		

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	Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 18	-
16	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 18	-
17	Replace the 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 replacement?	Go to Step 18	-
18	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

FOG LAMPS INOPERATIVE

Fog Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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 ON the low beam headlamps. 3. Observe the front fog lamps. 4. Turn ON and OFF the front fog lamps. 5. Turn OFF the ignition. Did the front fog lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool command the Front Fog		

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	Lamps ON from the dash integration module (DIM) Output Control data list.		
	Do both of the fog lamps turn ON?	Go to Step 5	Go to Step 4
4	Are both of the front fog lamps inoperative?	Go to Step 7	Go to Step 11
5	1. Position the front fog lamp switch to the ON position. 2. With a scan tool, observe the Front Fog Lamp Switch input parameter in the DIM Inputs data list.		
	Does the scan tool display ON?	Go to Step 20	Go to Step 6
6	1. Disconnect the multifunction, turn signal switch. 2. Connect a 3-amp fused jumper between the front fog lamp switch signal circuit and the front fog lamp switch ground circuit. 3. With a scan tool observe the Front Fog Lamp Switch parameter.		
	Does the scan tool display ON?	Go to Step 19	Go to Step 12
7	1. Turn OFF the ignition. 2. Disconnect the 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. 3. Turn ON the ignition, with the engine OFF. 4. Probe the fog lamp relay control side supply voltage circuit with a test lamp that connected to a good ground.		
	Does the test lamp illuminate?	Go to Step 8	Go to Step 23
8	Probe the fog lamp relay switch side supply voltage circuit with a test lamp that is		

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	connected to a good ground. Does the test lamp illuminate?	Go to Step 9	Go to Step 22
9	1. Connect a test lamp between the front fog lamp relay control side supply voltage circuit and the fog lamp relay control circuit. 2. With a scan tool command the Front Fog Lamps ON and OFF from the DIM Output Control data list. Does the test lamp turn ON and OFF with each command?	Go to Step 10	Go to Step 17
10	1. Turn OFF the ignition. 2. Connect a 15-amp fused jumper between the fog lamp relay switch side supply voltage circuit and the fog lamp supply voltage circuit. 3. Turn ON the ignition, with the engine OFF. Do both of the front fog lamps illuminate?	Go to Step 18	Go to Step 11
11	1. Turn OFF the ignition. 2. Remove the inoperative fog lamp bulb. 3. Connect a test lamp between the inoperative fog lamps supply voltage circuit and the inoperative fog lamp ground circuit. 4. Turn ON the ignition, with the engine OFF. 5. Turn ON the front fog lamp switch. Does the test lamp illuminate?	Go to Step 21	Go to Step 14
12	Test the fog lamp switch ground circuit for 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 28	Go to Step 13
	Test the front fog lamp switch signal circuit for		

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13	high resistance, open or 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 28	Go to Step 16
14	Test the fog lamps supply voltage circuit for an open, a 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 the condition?	Go to Step 28	Go to Step 15
15	Test the fog lamp ground circuit for 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 28	Go to Step 20
16	Test the front fog lamp 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 28	Go to Step 19
17	Test the fog lamp relay control circuit of the fog lamp relay for 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 28	Go to Step 20
18	Inspect for poor connections at the fog lamp 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 28	Go to Step 24
19	Inspect for poor connections at the harness connector of 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 28	Go to Step 25
20	Inspect for poor connections at the harness connector of the DIM. 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 28	Go to Step 26
21	Inspect for poor connections at the inoperative front fog lamp bulb. 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 28	Go to Step 27
22	Repair the open or high resistance in the switch side supply voltage circuit of the fog lamp 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 28	-
23	Repair the high resistance or open in the control side supply voltage circuit of the fog lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 28	-
24	Replace the in 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 replacement?	Go to Step 28	-
25	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 28	-
26	IMPORTANT: Perform the setup procedure for the DIM after DIM replacement. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 28	-
27	Replace the inoperative front fog lamp bulb. Refer to <u>Fog Lamp, Turn Signal Lamp, Daytime Running Lamp (DRL) Assembly and/or Bulb Replacement</u> . Did you complete the replacement?	Go to Step 28	-

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28	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2
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FOG LAMPS ALWAYS ON - REAR

Fog Lamps Always On - Rear

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Turn ON the low beam headlamps. 3. Turn ON the front fog lamps. 4. Observe the rear fog lamps. 5. Turn ON and OFF the rear fog lamps. 6. Turn OFF the ignition. Did the rear fog lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Position the rear fog lamp switch to the OFF position. 4. With a scan tool, observe the Rear Fog Lamp Switch parameter in the dash integration module (DIM) Inputs data list. Does the scan tool indicate that the rear fog lamp switch is parameter Idle?	Go to Step 4	Go to Step 7
4	With a scan tool, observe the Rear Fog Lamp Relay status in the DIM Outputs data list. Does the scan tool indicate the rear fog lamp relay is parameter Off?	Go to Step 5	Go to Step 11

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5	1. Turn OFF the ignition. 2. Disconnect the rear 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. 3. Turn ON the ignition, with the engine OFF. Did the rear fog lamps turn OFF?	Go to Step 6	Go to Step 14
6	1. Turn OFF the ignition. 2. Connect a test lamp between the rear fog lamp relay control side supply voltage circuit and the fog lamp relay control circuit. 3. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 8	Go to Step 13
7	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool observe the Rear Fog Lamp Switch parameter. Does the scan tool indicate the Rear Fog Lamp Switch parameter is Idle?	Go to Step 10	Go to Step 9
8	Test for a short to ground in the fog lamp relay control 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 18	Go to Step 11
9	Test the rear fog lamp 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 18	Go to Step 11

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10	Test the rear fog lamp switch signal circuit 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 18	Go to Step 12
11	Inspect for poor connections at the harness connector of the DIM. 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 18	Go to Step 15
12	Inspect for poor connections at the harness connector of 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 18	Go to Step 16
13	Inspect for poor connections at the rear fog lamp 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 18	Go to Step 17
14	Repair the short to power in the rear fog lamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did to complete the repair?	Go to Step 18	-
15	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 18	-
16	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 18	-
	Replace the rear fog lamp relay. Refer to <u>Relay</u>		

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17	<u>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 18	-
18	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

FOG LAMPS INOPERATIVE - REAR

Fog Lamps Inoperative - Rear

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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 ON the low beam headlamps. 3. Turn ON the front fog lamps. 4. Observe the rear fog lamps. 5. Turn ON and OFF the rear fog lamps. 6. Turn OFF the ignition. Did the rear fog lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool command the Rear Fog Lamps ON from the dash integration module (DIM) Output Control data list. Do both of the fog lamps turn ON?	Go to Step 5	Go to Step 4
4	Are both of the rear fog lamps inoperative?	Go to Step 7	Go to Step 11
	1. Position the rear fog lamp switch to the		

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5	ON position. 2. With a scan tool, observe the Rear Fog Lamp Switch input parameter in the DIM Inputs data list. Does the scan tool display ON?	Go to Step 20	Go to Step 6
6	1. Disconnect the multifunction, turn signal switch. 2. Connect a 3-amp fused jumper between the rear fog lamp switch signal circuit and the rear fog lamp switch ground circuit. 3. With a scan tool observe the Rear Fog Lamp Switch parameter. Does the scan tool display ON?	Go to Step 19	Go to Step 12
7	1. Turn OFF the ignition. 2. Disconnect the rear 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. 3. Turn ON the ignition, with the engine OFF. 4. Probe the rear fog lamp relay control side supply voltage circuit with a test lamp that connected to a good ground. Does the test lamp illuminate?	Go to Step 8	Go to Step 23
8	Probe the rear fog lamp relay switch side supply voltage circuit with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 9	Go to Step 22
9	1. Connect a test lamp between the rear fog lamp relay control side supply voltage circuit and the fog lamp relay control circuit. 2. With a scan tool command the Rear Fog		

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	Lamps ON and OFF from the DIM Output Control data list. Does the test lamp turn ON and OFF with each command?	Go to Step 10	Go to Step 17
10	1. Turn OFF the ignition. 2. Connect a 15-amp fused jumper between the rear fog lamp relay switch side supply voltage circuit and the fog lamp supply voltage circuit. 3. Turn ON the ignition, with the engine OFF. Do both of the rear fog lamps illuminate?	Go to Step 18	Go to Step 11
11	1. Turn OFF the ignition. 2. Remove the inoperative fog lamp bulb. 3. Connect a test lamp between the inoperative fog lamps supply voltage circuit and the inoperative fog lamp ground circuit. 4. Turn ON the ignition, with the engine OFF. 5. Turn ON the rear fog lamp switch. Does the test lamp illuminate?	Go to Step 21	Go to Step 14
12	Test the fog lamp switch ground circuit 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 28	Go to Step 13
13	Test the rear fog lamp switch signal circuit for high resistance, open or 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 28	Go to Step 16
14	Test the fog lamps supply voltage circuit for an open, a high resistance or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u>		

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	in Wiring Systems. Did you find and correct the condition?	Go to Step 28	Go to Step 15
15	Test the fog lamp ground circuit for 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 28	Go to Step 20
16	Test the rear fog lamp 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 28	Go to Step 19
17	Test the rear fog lamp relay control circuit of the rear fog lamp relay for 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 28	Go to Step 20
18	Inspect for poor connections at the rear fog lamp 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 28	Go to Step 24
19	Inspect for poor connections at the harness connector of 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 28	Go to Step 25
20	Inspect for poor connections at the harness connector of the DIM. 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 28	Go to Step 26
21	Inspect for poor connections at the inoperative rear fog lamp bulb. 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 28	Go to Step 27
22	Repair the open or high resistance in the switch side supply voltage circuit of the rear fog lamp 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 28	-
23	Repair the high resistance or open in the control side supply voltage circuit of the rear fog lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 28	-
24	Replace the in rear 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 replacement?	Go to Step 28	-
25	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 28	-
26	IMPORTANT: Perform the setup procedure for the DIM after DIM replacement. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 28	-
27	Replace the inoperative rear fog lamp bulb. Refer to <u>Fog Lamp Bulb Replacement - Rear</u> . Did you complete the replacement?	Go to Step 28	-
28	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

HAZARD LAMPS ALWAYS ON

Hazard Lamps Always On

Step	Action	Yes	No

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Schematic Reference: Exterior Lights Schematics

Connector End View Reference: Master Electrical Component List in Wiring Systems

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. Observe the hazard lamps. 3. Turn ON the hazard lamps. 4. Turn OFF the hazard lamps. Did the hazard lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Turn OFF the hazard lamps. 4. Observe the Hazard Lamp Switch parameter in the dash integration module (DIM) Inputs data list. Does the Hazard Lamp Switch parameter indicate OFF?	Go to Step 6	Go to Step 4
4	1. Turn OFF the ignition. 2. Disconnect the hazard switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, observe the Hazard Lamp Switch parameter. Does the Hazard Lamp Switch parameter indicate OFF?	Go to Step 7	Go to Step 5
5	Test the hazard switch output 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 13	Go to Step 9

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6	Test the hazard 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 13	Go to Step 8
7	Inspect for poor connections at the harness connector of the hazard 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 13	Go to Step 10
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 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 DIM. 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 hazard switch. Refer to <u>Hazard Warning Switch Replacement</u> . Did you complete the replacement?	Go to Step 13	-
11	Replace the turn signal/hazard flasher module. Refer to <u>Hazard and Turn Signal Flasher Replacement</u> . Did you complete the replacement?	Go to Step 13	-
12	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration 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 2

Hazard Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Observe the hazard lamps. 3. Turn ON the hazard lamps. 4. Turn OFF the hazard lamps. Did the hazard lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the turn signal lamps and indicators operate properly?	Go to Step 4	Go to <u>Turn Signal Lamps and/or Indicators Inoperative</u>
4	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Observe the Hazard Lamp Switch parameter in the Dash Integration Module (DIM) inputs data list. 4. Turn ON and OFF the hazard lamp switch several times. Does the scan tool display status turn ON and OFF with the hazard lamp switch?	Go to Step 5	Go to Step 7
	1. Turn OFF the ignition. 2. Disconnect the turn signal/hazard flasher module. 3. Connect a test light from the hazard switch signal circuit of the turn		

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5	signal/hazard flasher module to battery positive voltage. 4. Turn ON the ignition with the engine OFF. 5. Turn ON the hazard switch. Does the test light illuminate?	Go to Step 10	Go to Step 6
6	Test the hazard switch signal circuit for an open or 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 16	Go to Step 11
7	1. Turn OFF the ignition. 2. Disconnect the hazard switch. 3. Connect a 3-amp fused jumper wire between the hazard switch output circuit of the hazard switch and the ground circuit of the hazard switch. 4. Turn ON the ignition with the engine OFF. 5. Observer the Hazard Lamp Switch parameter in the DIM inputs data list. Does the scan tool Hazard Lamp Switch parameter display ON?	Go to Step 12	Go to Step 8
8	Test for an open, high resistance or short to voltage in the hazard switch output 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 16	Go to Step 9
9	Test for an open or high resistance in the hazard switch ground 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 16	Go to Step 11
10	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		

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	Connector Repairs 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 DIM. 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 14
12	Inspect for poor connections at the harness connector of the hazard 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 15
13	Replace the turn signal/hazard flasher module. Refer to Hazard and Turn Signal Flasher Replacement . Did you complete the replacement?	Go to Step 16	-
14	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to Dash Integration Module Replacement in Body Control System.Did you complete the replacement?	Go to Step 16	-
15	Replace the hazard switch assembly. Refer to Hazard Warning Switch Replacement . 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 2

HEADLAMPS ALWAYS ON - LOW OR HIGH BEAM

Headlamps Always On - Low or High Beam

Step	Action	Yes	No
Schematic Reference: Headlights/Daytime Running Lights (DRL) Schematics and Wiper/Washer System Schematics in Wipers/Washer Systems			
Connector End View Reference: Master Electrical Component List in Wiring Systems			
	Did you perform the Lighting System Diagnostic		Go to

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1	System Check?	Go to Step 2	<u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn the headlamp switch to the OFF position. 2. Verify that the transmission shift lever is in the PARK position for vehicles equipped with automatic transmissions or the parking brake is applied for vehicles with manual transmissions. 3. Expose the sunload sensor to a bright light. 4. Turn the windshield wipers to the OFF position. 5. Turn ON the ignition, with the engine OFF. Are the head lamps ON?	Go to Step 3	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems
3	1. Turn OFF the ignition. 2. Install a scan tool. 3. Turn ON the ignition, with the engine OFF. 4. Turn the headlamp switch to the OFF position. 5. With a scan tool, observe the Head Lamp Switch parameter in the Dash Integration Module (DIM) Inputs data list. Does the scan tool indicate that the Head Lamp Switch parameter is OFF?	Go to Step 4	Go to Step 13
4	With a scan tool, observe the Low/High Beam Relay parameter in the DIM Outputs data list. Does the scan tool indicate that the Low/High Beam Relay output parameter is OFF?	Go to Step 8	Go to Step 5
5	With a scan tool, observe the Lights On with Wipers parameter in the DIM Inputs data list. Does the scan tool indicate OFF?	Go to Step 6	Go to Step 14
	With the scan tool, observe the Flash to Pass Switch parameter in the DIM Inputs data list.		

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6	Does the scan tool indicate that the Flash to Pass Switch parameter is OFF?	Go to Step 15	Go to Step 7
7	With a scan tool, observe the Twilight Switch status in the DIM Inputs data list. Does the scan tool indicate that the Twilight Switch is OFF?	Go to Step 23	Go to <u>Twilight Sentinel Inoperative</u>
8	Are the high beam headlamps ON?	Go to Step 11	Go to Step 9
9	1. Turn OFF the ignition. 2. Disconnect the headlamp low beam relay. 3. Turn ON the ignition, with the engine OFF. Did the low beam headlamps turn OFF?	Go to Step 10	Go to Step 24
10	1. Turn OFF the ignition. 2. Connect a test lamp between the coil side supply voltage circuit and the headlamp low beam relay control circuit of the headlamp low beam relay. 3. Turn ON the ignition, with the engine OFF. Did the test lamp illuminate?	Go to Step 16	Go to Step 20
11	1. Turn OFF the ignition. 2. Disconnect the headlamp high beam relay. 3. Turn ON the ignition, with the engine OFF. Did the high beam headlamps turn OFF?	Go to Step 12	Go to Step 25
12	1. Turn OFF the ignition. 2. Connect a test lamp between the coil side supply voltage circuit of the headlamp high beam relay and the high beam headlamp relay control circuit of the headlamp high beam relay. 3. Turn ON the ignition, with the engine OFF. Did the test lamp illuminate?	Go to Step 17	Go to Step 21
	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal		

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13	switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool observe the Head Lamp Switch parameter in the DIM Inputs data list. Does the scan tool indicate that the Head Lamp Switch parameter is OFF?	Go to Step 22	Go to Step 18
14	Test the windshield wiper switch ON 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 30	Go to Step 23
15	1. Disconnect the multifunction, turn signal switch. 2. With a scan tool observe the Flash to Pass Switch parameter in the DIM Inputs data list. Does the scan tool indicate that the Flash to Pass Switch is OFF?	Go to Step 22	Go to Step 19
16	Test for a short to ground in the headlamp low beam relay control 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 30	Go to Step 23
17	Test for a short to ground in the headlamp high beam relay control 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 30	Go to Step 23
18	Test for a short to ground in the headlamp switch headlamp ON signal circuit of the multifunction, turn signal 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 30	Go to Step 23
19	Test for a short to ground in the flash to pass 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 30	Go to Step 23
	Inspect for poor connections at the low beam		

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20	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 30	Go to Step 26
21	Inspect for poor connections at the high beam 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 30	Go to Step 27
22	Inspect for poor connections at the harness connector of 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 30	Go to Step 28
23	Inspect for poor connections at the harness connector of the DIM. 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 30	Go to Step 29
24	Repair the short to voltage in the headlamp low beam supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
25	Repair the short to voltage in the headlamp high beam supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
26	Replace the headlamp 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 replacement?	Go to Step 30	-
27	Replace the headlamp high beam relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems.		

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	Did you complete the replacement?	Go to Step 30	-
28	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 30	-
29	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 30	-
30	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

HEADLAMPS INOPERATIVE - HIGH BEAMS

Test Description

The numbers below refer to the step numbers on the diagnostic table.

- 4:** Listen for an audible click when the relay operates. Cycle between low and high positions. Repeat the cycles as necessary.
- 5:** Tests for supply voltage at the coil side of the relay.
- 6:** Verifies that the headlamp switch is providing ground to the relay.

Headlamps Inoperative - High Beams

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting System Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the headlamp switch. 3. Move the headlamp dimmer switch between the high beam and low beam		

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2	positions. 4. Turn OFF the headlamp switch. 5. Turn OFF the ignition. Did the high beam headlamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the low beam headlamps operate properly?	Go to Step 4	Go to <u>Headlamps Inoperative - Low Beams (Standard or w/TR7-TT6) or Headlamps Inoperative - Low Beams (w/Leveling (TR7) and HID (TT6)) or Headlamps Inoperative - Low Beams (w/HID (TT6))</u>
4	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the headlamps. 3. Cycle the headlamp dimmer switch between low and high beams. Does the headlamp high beam relay turn ON and OFF with each cycle?	Go to Step 7	Go to Step 5
5	1. Turn OFF the ignition. 2. Disconnect the headlamp high beam relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. 3. Turn ON the ignition, with the engine		

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	OFF. 4. Probe the coil side supply voltage circuit of the headlamp high beam relay with a test lamp that is connected to a good ground.		
	Does the test lamp illuminate?	Go to Step 6	Go to Step 18
6	1. Connect a test lamp between the headlamp high beam relay control circuit of the headlamp high beam relay and the coil side supply voltage circuit of the headlamp high beam relay. 2. Cycle the headlamp dimmer switch between low beams and high beams.		
	Does the test lamp turn ON and OFF with each cycle?	Go to Step 13	Go to Step 10
7	1. Turn OFF the ignition. 2. Disconnect the headlamp high beam relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. 3. Turn ON the ignition, with the engine OFF. 4. Probe the switch side supply voltage circuit of the headlamp high beam relay with a test lamp that is connected to a good ground.		
	Does the test lamp illuminate?	Go to Step 8	Go to Step 17
8	1. Turn OFF the ignition. 2. Connect a 20-amp fused jumper between the headlamp high beam relay switch side supply voltage circuit and the headlamp high beam supply voltage circuit. 3. Turn ON the ignition, with the engine		

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	OFF. Did both of the high beam headlamps illuminate?	Go to Step 13	Go to Step 9
9	1. Disconnect the inoperative high beam headlamp bulb. 2. Connect a test lamp between the inoperative headlamp high beam supply voltage circuit and inoperative headlamp high beam ground circuit. Does the test lamp illuminate?	Go to Step 15	Go to Step 11
10	Test the headlamp high beam relay control circuit for a short to voltage 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 22	Go to Step 12
11	Test the headlamp high beam supply voltage circuit for a high resistance or 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 22	Go to Step 16
12	Test the headlamp low beam relay control circuit of the headlamp dimmer switch for a short to voltage 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 22	Go to Step 14
13	Inspect for poor connections at the headlamp high beam 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 22	Go to Step 19
14	Inspect for poor connections at the harness connector of the multifunction, turn signal switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and		

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	Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 22	Go to Step 20
15	Inspect for poor connections at the inoperative high beam headlamp bulb. 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 22	Go to Step 21
16	Repair the open or high resistance in the ground circuit of the inoperative high beam headlamp bulb. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you complete the repair?	Go to Step 22	-
17	Repair the high resistance or open in the headlamp high beam relay switch side supply voltage circuit. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you complete the repair?	Go to Step 22	-
18	Repair the headlamp high beam coil side supply voltage circuit. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you complete the repair?	Go to Step 22	-
19	Replace the headlamp high beam 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 22	-
20	Replace the multifunction, turn signal switch. Refer to Multifunction, Turn Signal Switch Replacement in Steering Wheel and Column. Did you complete the replacement?	Go to Step 22	-
21	Replace the inoperative high beam headlamp bulb. Refer to Headlamp Assembly or Headlamp Bulb and/or Cornering, Sidemarker, Park, Turn Signal Bulb Replacement . Did you complete the replacement?	Go to Step 22	-
22	Operate the system in order to verify the repair.		

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Did you correct the condition?

System OK

Go to **Step 2**

HEADLAMPS INOPERATIVE - LOW BEAMS (STANDARD OR W/TR7-TT6)

Headlamps Inoperative - Low Beams (Standard or w/TR7-TT6)

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Turn ON the headlamp switch. 3. Cycle the headlamp dimmer switch between the high beam and low beam positions. 4. Turn OFF the headlamp switch. 5. Turn OFF the ignition. Did the headlamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Turn ON the headlamps. 4. With the scan tool, observe the Headlamp Switch parameter in the dash integration module (DIM) Inputs data list. Does the data parameter display ON?	Go to Step 4	Go to Step 5
4	1. Place the headlamp dimmer switch in the low beam position. 2. With a scan tool, command the High/Low Beam Relay ON and OFF from the DIM Special Functions, Output Control data list.		

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	Did both of the low beam headlamps turn ON and OFF?	Go to Step 16	Go to Step 6
5	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Connect a 3-amp fused jumper between the headlamp switch headlamps ON signal circuit of the multifunction, turn signal switch and the ground circuit of the multifunction, turn signal switch. 4. Turn ON the ignition, with the engine OFF. 5. With the scan tool, observe the Headlamp Switch parameter. Does the Headlamp Switch parameter display ON?	Go to Step 17	Go to Step 14
6	1. Turn OFF the ignition. 2. Disconnect the headlamp 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. 3. Connect a test lamp between the headlamp low beam relay control side supply voltage circuit and a good ground. 4. Turn ON the low beam headlamps. 5. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 7	Go to Step 12
7	Connect a test lamp between the headlamp low beam relay switch side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 8	Go to Step 22
	1. Turn OFF the ignition.		

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8	2. Connect a test lamp between the headlamp low beam relay control circuit and the headlamp low beam relay control side supply voltage circuit. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool command the High/Low Beam relay ON and OFF. Did the test lamp turn ON and OFF with each command?	Go to Step 9	Go to Step 13
9	1. Turn OFF the ignition. 2. Connect a 40-amp fused jumper between the headlamp low beam relay switch side supply voltage circuit and the headlamp low beam supply voltage circuit. 3. Turn ON the ignition, with the engine OFF. Did both of the low beam headlamps illuminate?	Go to Step 18	Go to Step 10
10	1. Disconnect the inoperative low beam headlamp bulb. 2. Connect a test lamp between the low beam headlamp supply voltage circuit of the inoperable low beam headlamp bulb and the ground circuit of the inoperable low beam headlamp bulb. Does the test lamp illuminate?	Go to Step 20	Go to Step 11
11	Test the headlamp low beam supply voltage circuit for a high resistance or open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 27	Go to Step 21
12	Test the control side supply voltage circuit of the headlamp low beam relay for a high resistance or open. Refer to Circuit Testing		

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	and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 27	Go to Step 16
13	Test the headlamp low beam relay control circuit for a short to voltage 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 27	Go to Step 16
14	Test the ground circuit of the multifunction, turn signal switch 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 27	Go to Step 15
15	Test the headlamp switch headlamps on signal circuit 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 27	Go to Step 16
16	Test the twilight sentinel delay signal circuit of the DIM 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 27	Go to Step 19
17	Inspect for poor connections at the harness connector of 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 27	Go to Step 23
18	Inspect for poor connections at the headlamp low beam 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 27	Go to Step 24
19	Inspect for poor connections at the harness connector of the DIM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in		

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	Wiring Systems. Did you find and correct the condition?	Go to Step 27	Go to Step 25
20	Inspect for poor connections at the harness connector of the inoperative headlamp bulb. 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 27	Go to Step 26
21	Repair the open or high resistance in the headlamp ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 27	-
22	Repair the high resistance or open in the switch side supply voltage circuit of the headlamp low beam relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 27	-
23	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 27	-
24	Replace the headlamp 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 replacement?	Go to Step 27	-
25	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 27	-
26	Replace the inoperative headlamp bulb. Refer to <u>Headlamp Assembly or Headlamp Bulb and/or Cornering, Sidemarkers, Park, Turn Signal Bulb Replacement</u> . Did you complete the replacement?	Go to Step 27	-

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27	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2
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HEADLAMPS INOPERATIVE - LOW BEAMS (W/LEVELING (TR7) AND HID (TT6))

Headlamps Inoperative - Low Beams (w/Leveling (TR7) and HID (TT6))

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. Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems DEFINITION: One or more low beam headlamps inoperative on a vehicle equipped with headlamp leveling with HID.			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	1. Turn ON the ignition, with the engine OFF. 2. Place the headlamp switch in the ON position. 3. Place the headlamp dimmer switch in the low beam position. Do the low beam headlamps illuminate?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Are both of the low beam headlamps inoperative?	Go to Step 6	Go to Step 4
4	1. Turn OFF the ignition. 2. Disconnect the inoperative low beam headlamp. 3. Connect a test lamp between the headlamp low beam supply voltage circuit		

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	of the inoperative headlamp and a good ground. 4. Turn ON the ignition with the engine OFF. Does the test lamp illuminate?	Go to Step 5	Go to Step 21
5	1. Turn OFF the ignition. 2. Connect a test lamp between the headlamp low beam supply voltage circuit of the inoperative low beam headlamp and the ground circuit of the inoperative low beam headlamp. 3. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 20	Go to Step 22
6	Do the high beam headlamps operate properly?	Go to Step 7	Go to Step 9
7	1. Turn OFF the ignition. 2. Remove the headlamp low beam relay. 3. Connect a test lamp between the switch side supply voltage circuit of the headlamp low beam relay and a good ground. 4. Turn ON the ignition with the engine OFF. Does the test lamp illuminate?	Go to Step 8	Go to Step 23
8	1. Turn OFF the ignition. 2. Connect a 40-amp fused jumper between the switch side supply voltage circuit of the headlamp low beam relay and the headlamp low beam supply voltage circuit of the headlamp low beam relay. 3. Turn ON the ignition, with the engine OFF. Did both of the low beam headlamps		

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	illuminate?	Go to Step 17	Go to Step 24
9	1. Turn OFF the ignition. 2. Install a scan tool. 3. Turn ON the ignition, with the engine OFF. 4. Turn ON the headlamp switch. 5. With a scan tool, observe the Head Lamp Switch parameter in the Dash Integration Module (DIM) Inputs Data List. Does the scan tool indicate that the Head Lamp Switch parameter is ON?	Go to Step 10	Go to Step 12
10	1. Turn OFF the ignition. 2. Remove the headlamp low beam relay. 3. Connect a test lamp between the coil side supply voltage circuit of the headlamp low beam relay and a good ground. 4. Turn ON the ignition with the engine OFF. Does the test lamp illuminate?	Go to Step 11	Go to Step 15
11	1. Turn OFF the ignition. 2. Connect a test lamp between the coil side supply voltage circuit of the headlamp low beam relay and the headlamp low beam relay control circuit. 3. Turn ON the ignition with the engine OFF. 4. Place the headlamps dimmer switch in the low beam position. 5. With a scan tool, command the High/Low Beam Relay ON and OFF from the DIM Special Functions, Output Control data list. Does the test lamp turn ON and OFF with each		

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	command?	Go to Step 17	Go to Step 16
12	Test for an open or a high resistance in the headlamp switch headlamp on signal circuit of the multifunction, turn signal 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 30	Go to Step 13
13	Test for an open or high resistance in the ground circuit of the multifunction, turn signal 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 30	Go to Step 14
14	1. Turn OFF the ignition. 2. Connect a 3-amp fused jumper wire between the headlamp switch headlamp on signal circuit at the multifunction, turn signal switch and a good ground. 3. Turn ON the ignition, with the engine OFF. Do the low beam headlamps illuminate?	Go to Step 18	Go to Step 19
15	Test for an open or high resistance in the coil side supply voltage circuit of the headlamp low beam 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 30	Go to Step 19
16	Test for an open or high resistance in the headlamp low beam control circuit of the headlamp low beam 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 30	Go to Step 19
17	Inspect for poor connections at the headlamp low beam 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 30	Go to Step 25

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18	Inspect for poor connections at the harness connector of 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 30	Go to Step 26
19	Inspect for poor connections at the harness connector of the DIM. 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 30	Go to Step 27
20	Inspect for poor connections at the harness connector of the HID headlamp assembly. 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 30	Go to Step 28
21	Repair an open or high resistance in the supply voltage circuit of the inoperative low beam headlamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
22	Repair an open or high resistance in the ground circuit of the low beam headlamps. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
23	Repair an open or high resistance in the switch side supply voltage circuit of the headlamp low beam relay switch. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
24	Repair an open or high resistance in the headlamp low beam supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
	Replace the headlamp low beam relay. Refer to		

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25	<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 30	-
26	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 30	-
27	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 30	-
28	Replace the inoperative HID headlamp arc tube. Refer to <u>HID Headlamp Starter/Arc Tube Replacement</u> . Do the headlamps operate properly?	Go to Step 30	Go to Step 29
29	Replace the inoperative headlamp leveling module with HID. Refer to <u>Headlamp Leveling Module Replacement</u> . Did you complete the replacement?	Go to Step 30	-
30	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

HEADLAMPS INOPERATIVE - LOW BEAMS (W/HID (TT6))

Headlamps Inoperative - Low Beams (w/HID (TT6))

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.			
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring			

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Systems **DEFINITION:** One or more low beam headlamps inoperative on a vehicle equipped with headlamp leveling with HID.

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. Place the headlamp switch in the ON position. 3. Place the headlamp dimmer switch in the low beam position. Do the low beam headlamps illuminate?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are both of the low beam headlamps inoperative?	Go to Step 6	Go to Step 4
4	1. Turn OFF the ignition. 2. Disconnect the inoperative low beam headlamp. 3. Connect a test lamp between the headlamp low beam supply voltage circuit of the inoperative headlamp and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 5	Go to Step 21
5	1. Turn OFF the ignition. 2. Connect a test lamp between the headlamp low beam supply voltage circuit of the inoperative low beam headlamp and the ground circuit of the inoperative low beam headlamp. 3. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 20	Go to Step 22

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6	Do the high beam headlamps operate properly?	Go to Step 7	Go to Step 9
7	1. Turn OFF the ignition. 2. Remove the headlamp low beam relay. 3. Connect a test lamp between the switch side supply voltage circuit of the headlamp low beam relay and a good ground. 4. Turn ON the ignition with the engine OFF. Does the test lamp illuminate?	Go to Step 8	Go to Step 23
8	1. Turn OFF the ignition. 2. Connect a 40-amp fused jumper between the switch side supply voltage circuit of the headlamp low beam relay and the headlamp low beam supply voltage circuit of the headlamp low beam relay. 3. Turn ON the ignition, with the engine OFF. Did both of the low beam headlamps illuminate?	Go to Step 17	Go to Step 24
9	1. Turn OFF the ignition. 2. Install a scan tool. 3. Turn ON the ignition, with the engine OFF. 4. Turn ON the headlamp switch. 5. With a scan tool, observe the Head Lamp Switch parameter in the dash integration module (DIM) Inputs Data List. Does the scan tool indicate that the Head Lamp Switch parameter is ON?	Go to Step 10	Go to Step 12
	1. Turn OFF the ignition. 2. Remove the headlamp low beam relay. 3. Connect a test lamp between the coil side		

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10	supply voltage circuit of the headlamp low beam relay and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 11	Go to Step 15
11	1. Turn OFF the ignition. 2. Connect a test lamp between the coil side supply voltage circuit of the headlamp low beam relay and the headlamp low beam relay control circuit of the headlamp low beam relay. 3. Turn ON the ignition, with the engine OFF. 4. Place the headlamps dimmer switch in the low beam position. 5. With a scan tool, command the High/Low Beam Relay ON and OFF from the DIM Special Functions, Output Control data list. Does the test lamp turn ON and OFF with each command?	Go to Step 17	Go to Step 16
12	Test for an open or high resistance in the headlamp switch headlamp on signal circuit of the multifunction, turn signal 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 30	Go to Step 13
13	Test for an open or high resistance in the ground circuit of the multifunction, turn signal 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 30	Go to Step 14
	1. Turn OFF the ignition. 2. Connect a 3-amp fused jumper wire between the headlamp switch headlamp		

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14	on signal circuit at the multifunction, turn signal switch and a good ground. 3. Turn ON the ignition, with the engine OFF. Do the low beam headlamps illuminate?	Go to Step 18	Go to Step 19
15	Test for an open or high resistance in the coil side supply voltage circuit of the headlamp low beam 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 30	Go to Step 19
16	Test for an open or high resistance in the headlamp low beam control circuit of the headlamp low beam 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 30	Go to Step 19
17	Inspect for poor connections at the headlamp low beam 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 30	Go to Step 25
18	Inspect for poor connections at the harness connector of 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 30	Go to Step 26
19	Inspect for poor connections at the harness connector of the DIM. 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 30	Go to Step 27
20	Inspect for poor connections at the harness connector of the HID headlamp assembly. Refer to <u>Testing for Intermittent Conditions</u>		

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	<u>and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 30	Go to Step 28
21	Repair an open or high resistance in the supply voltage circuit of the inoperative low beam headlamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
22	Repair an open or high resistance in the ground circuit of the low beam headlamps. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
23	Repair an open or high resistance in the switch side supply voltage circuit of the headlamp low beam relay switch. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
24	Repair an open or high resistance in the headlamp low beam supply voltage circuit of the low beam headlamps. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 30	-
25	Replace the headlamp 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 replacement?	Go to Step 30	-
26	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 30	-
27	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 30	-

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28	Replace the inoperative HID headlamp arc tube. Refer to <u>HID Headlamp Starter/Arc Tube Replacement</u> . Do the headlamps operate properly?	Go to Step 30	Go to Step 29
29	Replace the inoperative HID headlamp ballast. Refer to <u>HID Headlamp Ballast Replacement</u> . Did you complete the replacement?	Go to Step 30	-
30	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

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>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Turn the flash to pass switch ON and OFF. Did the flash to pass function operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the high beam headlamps operate properly?	Go to Step 4	Go to <u>Headlamps Inoperative - High Beams</u>
4	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, observe the Flash to Pass Switch parameter in the dash integration module (DIM) Inputs data list.		

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	4. Turn the flash to pass switch ON and OFF several times. Does the Flash to Pass Switch parameter turn ON and OFF with the switch?	Go to Step 5	Go to Step 6
5	With a scan tool, command the High Beam Flash to Pass ON and OFF from the DIM Special Functions, Output Control data list. Do the high beam headlamps turn ON and OFF with each command?	Go to Step 10	Go to Step 7
6	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Connect a 3-amp fused jumper wire between the flash to pass switch signal circuit of the multifunction, turn signal switch and the ground circuit of the multifunction, turn signal switch. 4. Turn ON the ignition, with the engine OFF. 5. With a scan tool, observe the Flash to Pass Switch parameter in the DIM Inputs data list. Does the scan tool indicate that the Flash to Pass Switch parameter is ON?	Go to Step 9	Go to Step 8
7	Test for an open or high resistance in the headlamp high beam relay control circuit. 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
8	Test for an open or high resistance in the flash to pass switch signal circuit of the headlamp dimmer switch. 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
	Inspect for poor connections at the harness connector of the multifunction, turn signal switch. Refer to Testing for Intermittent Conditions		

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9	<u>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
10	Inspect for poor connections at the harness connector of the DIM. 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
11	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 13	-
12	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration 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 2

HEADLAMPS SUGGESTED MESSAGE ON IN DAYLIGHT CONDITIONS

Headlamps Suggested Message On in Daylight Conditions

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>			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	1. Turn ON the ignition, with the engine OFF. 2. Expose the sunload sensor to a bright light. 3. Place the wiper/washer switch in the OFF		

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2	position. 4. Place the headlamp switch in the OFF position. 5. Place the fog lamp switch in the OFF position. 6. Wait more than 6 seconds. Does the HEADLAMPS SUGGESTED message display on the instrument panel cluster (IPC)?	Go to Step 3	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems
3	1. Install a scan tool. 2. Observe the Photocell Status in the Climate Control Panel (CCP) Inputs data list. Does the scan tool display Light?	Go to Step 4	Go to <u>Twilight Sentinel Inoperative</u>
4	Inspect for poor connections at the harness connector of the dash integration module (DIM). Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 6	Go to Step 5
5	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. 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 2

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>			
	Did you perform the Lighting Systems		Go to Diagnostic

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1	Diagnostic System Check?	Go to Step 2	<u>System Check - Lighting Systems</u>
2	1. Turn ON the ignition, with the engine OFF. 2. Perform the setup procedure for the automatic headlamp leveling module. Refer to <u>Automatic Headlamp Leveling Calibration Description and Operation</u> . Did the scan tool display CALIBRATION SUCCESSFUL?	Go to Step 3	Go to Step 4
3	Does the automatic headlamp leveling system operate properly?	Go to Step 10	Go to Step 6
4	1. Turn OFF the ignition. 2. Disconnect the harness connector of the automatic headlamp leveling module at the headlamp assembly. 3. Connect a test lamp between the ignition 1 voltage circuit of the automatic headlamp leveling module and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 5	Go to Step 7
5	1. Turn OFF the ignition. 2. Connect a test lamp between the ignition 1 voltage circuit of the automatic headlamp leveling module and the ground circuit of the automatic headlamp leveling module. 3. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 6	Go to Step 8
	Inspect for poor connections at the harness connector of the automatic headlamp leveling		

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6	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 10	Go to Step 9
7	Repair the open or short to ground in the ignition 1 voltage circuit of the automatic headlamp leveling module. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 10	-
8	Repair the open or high resistance in the ground circuit of the automatic headlamp leveling module. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 10	-
9	IMPORTANT: Perform the setup procedure for the automatic headlamp leveling module. Refer to <u>Automatic Headlamp Leveling Calibration Description and Operation</u> . Replace the automatic headlamp leveling module. Refer to <u>Headlamp Leveling Module Replacement</u> .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 2

HIGH BEAM INDICATOR ALWAYS ON

High Beam Indicator Always On

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> and <u>Instrument Cluster Schematics</u> in Instrument Panel, Gages, and Console Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Diagnostic System Check - Lighting Systems?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>

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2	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the headlamps. 3. Move the headlamp dimmer switch between the high beam and low beam positions. 4. Turn OFF the headlamps. Does the high beam indicator operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Did the high beam headlamps operate properly?	Go to Step 4	Go to <u>Headlamps Always On - Low or High Beam</u>
4	Inspect for poor connections at the harness connector of the instrument panel cluster (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 6	Go to Step 5
5	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 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

HIGH BEAM INDICATOR INOPERATIVE

High Beam Indicator Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> and <u>Instrument Cluster Schematics</u> in Instrument Panel, Gages, and Console Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Diagnostic System Check - Lighting Systems?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>

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2	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the headlamps. 3. Move the headlamp dimmer switch between the high beam and low beam positions. 4. Turn OFF the headlamps. Does the high beam indicator operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Did the high beam headlamps operate properly?	Go to Step 4	Go to <u>Headlamps Inoperative - High Beams</u>
4	Inspect for poor connections at the harness connector of the instrument panel cluster (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 6	Go to Step 5
5	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 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

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>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	1. Turn ON the ignition, with the engine		

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2	OFF. - Place the headlamp switch in the PARK position. - Cover the sunload sensor. - Turn the instrument panel (I/P) lamps dimmer switch from minimum to maximum intensity. Do the interior backlighting lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are all of the interior backlighting lamps always ON?	Go to Step 4	Go to Step 9
4	- Install a scan tool. - With a scan tool, observe the Dimming Potentiometer parameter in the Dash Integration Module (DIM) Inputs data list. - Move the I/P lamps dimmer switch from minimum to maximum intensity. Does the scan tool indicate that the Dimming Potentiometer parameter is changing when the I/P lamps dimmer switch is moved?	Go to Step 5	Go to Step 7
5	With a scan tool, observe the Park Lamp Switch status in the DIM Inputs data list. Does the scan tool display ON?	Go to Step 6	Go to Step 8
6	With a scan tool, observe the Photocell Status parameter in the Climate Control Panel (CCP) Lighting Data list. Does the scan tool display DARK?	Go to Step 11	Go to <u>Twilight Sentinel Inoperative</u>
7	Test the I/P lamps dimmer switch signal circuit for an 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 15	Go to Step 10
8	Test the park lamp relay control circuit for an open circuit or a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in		

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	Wiring Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 11
9	Inspect for poor connections at the harness connector of the appropriate controlling 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 15	Go to Step 12
10	Inspect for poor connections at the harness connector of the I/P lamps 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 15	Go to Step 13
11	Inspect for poor connections at the harness connector of the DIM. 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
12	IMPORTANT: Perform the setup procedure for the appropriate module. Replace the appropriate controlling module. Refer to <u>Dash Integration Module Replacement</u> in Body Control System and <u>Door Control Module Replacement</u> in Doors. Did you complete the replacement?	Go to Step 15	-
13	Replace the I/P lamps dimmer switch. Refer to <u>Instrument Panel (I/P) Dimmer Switch Replacement</u> . Did you complete the replacement?	Go to Step 15	-
14	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 15	-

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15	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2
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INTERIOR BACKLIGHTING INOPERATIVE

Interior Backlighting Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Dimming Schematics</u> Connector End View Reference: <u>Master Electrical Component List</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	1. Turn ON the ignition, with the engine OFF. 2. Turn ON the park lamps. 3. Operate the instrument panel (I/P) lamps dimmer switch from minimum to maximum. 4. Turn OFF the park lamps. Does the interior backlighting operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the park lamps operate properly?	Go to Step 4	Go to <u>Park Lamps Inoperative</u>
4	1. Turn ON the park lamps. 2. Operate the I/P lamps dimmer switch from minimum to maximum. Are all of the interior backlighting lamps inoperative?	Go to Step 10	Go to Step 5
5	1. Turn OFF the ignition. 2. Disconnect the component with the inoperative backlight lamp. 3. Connect a test lamp between the backlight lamps control circuit of the component with the inoperative backlight lamp and the ground circuit of the component with the		

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	inoperative backlight lamp. 4. Turn ON the ignition, with the engine OFF. 5. Operate the I/P lamps dimmer switch from minimum to maximum. Does the test lamp illuminate?	Go to Step 11	Go to Step 6
6	Test the backlight lamps control circuit for a 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 7
7	Test the ground circuit 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 15	Go to Step 8
8	Test the instrument panel lamp fuse supply voltage - 1 circuit of the of the dash integration module (DIM) for a 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 9
9	Inspect for poor connections at the harness connector of the appropriate controlling 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 15	Go to Step 14
10	Inspect for poor connections at the harness connector of the DIM. 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
11	Inspect for poor connections at the harness connector of the component with inoperative backlighting lamp. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring		

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	Systems. Did you find and correct the condition?	Go to Step 15	Go to Step 12
12	1. Replace the inoperative backlight bulbs in the component if they are replaceable. See the appropriate systems operation and description. 2. If the bulb is not replaceable replace the component with inoperative backlighting lamps.		
	Did you complete the replacement?	Go to Step 15	-
13	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System.Did you complete the replacement?	Go to Step 15	-
14	IMPORTANT: Perform the setup procedure for the appropriate module. Replace the appropriate controlling module. Refer to <u>Dash Integration Module Replacement</u> in Body Control System and <u>Door Control Module Replacement</u> in Doors.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 2

LICENSE LAMPS INOPERATIVE

License Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting System Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>

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2	1. Turn ON the park lamps. 2. Observe the license lamps. Do the license lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the park lamps operate properly?	Go to Step 4	Go to <u>Park Lamps Inoperative</u>
4	1. Remove the inoperative license lamp bulb. 2. Connect a test lamp between the instrument panel lamp fuse supply voltage 1 circuit of the inoperative license lamp bulb and the ground circuit of the inoperative license lamp bulb. 3. Turn ON the ignition, with the engine OFF. 4. Turn ON the park lamps. Did the test lamp illuminate?	Go to Step 6	Go to Step 5
5	Test the instrument panel lamp fuse supply voltage 1 circuit for an open or a 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 7
6	Inspect for poor connections at the inoperative license lamp bulb. 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	Repair the open or high resistance in the license lamp ground circuit. 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 inoperative license lamp bulb. Did you complete the replacement?	Go to Step 9	-

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9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2
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LIGHTS ON INDICATOR ALWAYS ON

Lights On Indicator 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>Instrument Panel, Gages, and Console 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	Do the park lamps operate properly?	Go to Step 3	Go to <u>Park Lamps Inoperative</u>
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, perform the Display(s) Test in the Instrument Panel Cluster (IPC) Special Functions, Output Control data list. 4. Observe the LIGHTS ON indicator on the IPC during the Display(s) Test. Does the LIGHTS ON indicator illuminate during the Display(s) Test and then turn OFF?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 4
4	Replace the IPC. Refer to <u>Instrument Panel Cluster (IPC) Replacement</u> in Instrument Panel, Gages and Console. Did you complete the repair?	Go to Step 5	-
5	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

LIGHTS ON INDICATOR INOPERATIVE

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Lights On Indicator 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>Instrument Panel, Gages, and Console 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	Do the park lamps operate properly?	Go to Step 3	Go to <u>Park Lamps Inoperative</u>
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, perform the Display(s) Test in the Instrument Panel Cluster (IPC) Special Functions, Output Control data list. 4. Observe the LIGHTS ON indicator on the IPC during the Display(s) Test. Does the LIGHTS ON indicator illuminate during the Display(s) Test?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 4
4	Replace the IPC. Refer to <u>Instrument Panel Cluster (IPC) Replacement</u> in Instrument Panel, Gages and Console. Did you complete the repair?	Go to Step 5	-
5	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

PARK LAMPS ALWAYS ON

Park Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
	Did you perform the Lighting System Diagnostic		Go to

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1	System Check?	Go to Step 2	<u>Diagnostic System Check - Lighting Systems</u>
2	1. Turn OFF the ignition. 2. Observe the park lamps. 3. Turn the park lamps ON and OFF. Do the park lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with engine OFF. 3. Verify the park lamps are turned OFF. 4. With the scan tool, observe the Park Lamp Switch parameter in the Dash Integration Module (DIM) Inputs data list. Does the Park Lamp Switch data parameter display OFF?	Go to Step 4	Go to Step 5
4	1. Expose the sunload sensor to a bright light. 2. Wait more than 20 seconds. 3. Turn OFF the park lamps. 4. With a scan tool, command the parking lamps relay ON and OFF from the DIM Special Functions, Output Control data list. Did all of the park lamps turn ON and OFF?	Go to Step 13	Go to Step 6
5	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Turn ON the ignition, with the engine OFF. 4. With the scan tool, observe the Park Lamp Switch parameter. Does the Park Lamp Switch data parameter display OFF?	Go to Step 11	Go to Step 9

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6	1. Turn OFF the ignition. 2. Disconnect 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. 3. Turn ON the ignition, with the engine OFF. Do the park lamps turn OFF?	Go to Step 7	Go to Step 14
7	1. Turn OFF the ignition. 2. Connect a test lamp between the park lamp relay control circuit of the park lamp relay and the coil side supply voltage circuit of the park lamp relay. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool command the parking lamps relay ON and OFF. Did the test lamp turn ON and OFF?	Go to Step 12	Go to Step 8
8	Test the control circuit of the park lamp relay 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 18	Go to Step 10
9	Test the park lamp switch on signal circuit of the multifunction, turn signal 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 18	Go to Step 10
10	Test the backlight lamps control circuit of the DIM 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 18	Go to Step 13
11	Inspect for poor connections at the harness connector of 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 18	Go to Step 15

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12	Inspect for poor connections at the park lamp 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 18	Go to Step 16
13	Inspect for poor connections at the harness connector of the DIM. 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 18	Go to Step 17
14	Repair the short to voltage in the park lamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 18	-
15	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 18	-
16	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 replacement?	Go to Step 18	-
17	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 18	-
18	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

PARK LAMPS INOPERATIVE

Park Lamps Inoperative

Step	Action	Yes	No
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Schematic Reference: Exterior Lights Schematics

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Connector End View Reference: Master Electrical Component List

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. Turn OFF the ignition. 2. Observe the park lamps. 3. Turn the park lamps ON and OFF. Do the park lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Turn ON the park lamps. 4. With the scan tool, observe the Park Lamp Switch parameter in the dash integration module (DIM) Inputs data list. Does the data parameter display ON?	Go to Step 4	Go to Step 5
4	1. Expose the sunload sensor assembly to a bright light. 2. Wait more than 20 seconds. 3. Turn OFF the park lamps. 4. With a scan tool, command the parking lamps relay ON and OFF from the DIM Special Functions, Output Control data list. Did all of the park lamps turn ON and OFF?	Go to Step 18	Go to Step 6
5	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Connect a 3-amp fused jumper between the park lamp switch ON signal circuit of the multifunction, turn signal switch and the ground circuit of the multifunction,		

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	turn signal switch. 4. Turn ON the ignition, with the engine OFF. Does the park lamp switch input data parameter display ON?	Go to Step 16	Go to Step 14
6	1. Turn OFF the ignition. 2. Disconnect 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. 3. Connect a test lamp between the park lamp relay control side supply voltage circuit and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 7	Go to Step 12
7	Connect a test lamp between the park lamp relay switch side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 8	Go to Step 21
8	1. Turn OFF the ignition. 2. Connect a test lamp between the park lamp relay control circuit of the park lamp relay and the park lamp relay coil side supply voltage circuit of the park lamp relay. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool command the parking lamps relay ON and OFF. Did the test lamp turn ON and OFF?	Go to Step 9	Go to Step 13
	1. Turn OFF the ignition. 2. Connect a 30-amp fused jumper between		

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9	the park lamp relay switch side supply voltage circuit of the park lamp relay and the park lamp supply voltage circuit of the park lamp relay. 3. Turn ON the ignition, with the engine OFF. Did all of the park lamps illuminate?	Go to Step 17	Go to Step 10
10	1. Disconnect the inoperative park lamp bulb. 2. Connect a test lamp between the park lamp supply voltage circuit of the inoperative park lamp bulb and ground circuit inoperative park lamp bulb. Does the test lamp illuminate?	Go to Step 19	Go to Step 11
11	Test the park lamp supply voltage circuit for a high resistance or 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 26	Go to Step 20
12	Test the coil side supply voltage circuit of the park lamp relay for a high resistance or 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 26	Go to Step 18
13	Test the park lamp relay control circuit of the park lamp relay for a short to voltage 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 26	Go to Step 18
14	Test the ground circuit of the multifunction, turn signal switch 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 26	Go to Step 15
	Test the park lamp switch on signal circuit of the multifunction, turn signal switch for a high		

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15	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 26	Go to Step 18
16	Inspect for poor connections at the harness connector of 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 26	Go to Step 22
17	Inspect for poor connections at the park lamp 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 26	Go to Step 23
18	Inspect for poor connections at the harness connector of the DIM. 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 26	Go to Step 24
19	Inspect for poor connections at the inoperative park lamp bulb. 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 26	Go to Step 25
20	Repair the open or high resistance in the park lamp ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-
21	Repair the high resistance or open in the switch side supply voltage circuit of the park lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-
22	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column.		

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	Did you complete the replacement?	Go to Step 26	-
23	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 replacement?	Go to Step 26	-
24	IMPORTANT: After replacement perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 26	-
25	Replace the inoperative park lamp bulb. Did you complete the replacement?	Go to Step 26	-
26	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

POSITION LAMPS INOPERATIVE

Position Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems DEFINITION: Position lamps are available on export vehicles only.			
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. Turn OFF the ignition. 2. For vehicles that are equipped with automatic transmissions, place the shift lever in the PARK position. 3. For vehicles that are equipped with manual transmissions, apply the park brake. 4. Place the multifunction, turn signal switch in the left and right turn positions.	Go to <u>Testing for Intermittent Conditions and</u>	

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	Do both sides of the position lamps operate properly?	<u>Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the park lamps operate properly?	Go to Step 4	Go to <u>Park Lamps Inoperative</u>
4	Do the turn signals operate properly?	Go to Step 5	Go to <u>Turn Signal Lamps and/or Indicators Inoperative</u>
5	Are both sides of the position lamps inoperative?	Go to Step 6	Go to Step 10
6	1. Turn OFF the ignition. 2. Remove the standing lamp relay. 3. Connect a test lamp between the standing lamp relay switch side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 7	Go to Step 18
7	Connect a test lamp between the standing lamp relay coil side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 8	Go to Step 19
8	1. Connect a test lamp between the standing lamp relay coil side supply voltage circuit and the standing lamp relay control circuit. 2. Place the multifunction, turn signal switch in the left and right turn positions. Does the test lamp turn ON and OFF with the turn signal switch position?	Go to Step 9	Go to Step 13
	1. Connect a 10-amp fused jumper between the switch side supply voltage circuit of the standing lamp relay and the coil side supply voltage circuit of the standing lamp		

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9	relay. 2. Place the multifunction, turn signal switch in the left and right turn positions. Do the position lamps illuminate with the turn signal switch position?	Go to Step 15	Go to Step 20
10	1. Remove the inoperable position relay. 2. Connect a test lamp between the position relay switch side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 11	Go to Step 21
11	Connect a test lamp between the inoperable position relay coil side supply voltage circuit and a good ground. Does the test lamp illuminate?	Go to Step 12	Go to Step 22
12	1. Connect a test lamp between the position relay coil side supply voltage circuit and a good ground. 2. Turn the inoperable position lamp side turn signal ON and OFF several times. Does the test lamp turn ON and OFF with the turn signal switch?	Go to Step 15	Go to Step 14
13	Test the standing lamp relay control circuit for an open or 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 26	Go to Step 16
14	Test the inoperable position relay control circuit for an open or 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 26	Go to Step 17
15	Inspect for poor connections at the inoperable relay. 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 26	Go to Step 23
16	Inspect for poor connections at the harness connector of the rear integration module (RIM). 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 26	Go to Step 24
17	Inspect for poor connections at the harness connector of the 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 26	Go to Step 25
18	Repair the open in the standing lamp relay switch side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-
19	Repair the open in the standing lamp relay coil side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-
20	Repair the open or the short to ground in the coil side supply voltage circuit of the standing lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-
21	Repair the open in the position relay switch side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-
22	Repair the open in the inoperable position relay coil side supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 26	-

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23	Replace the inoperable 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 26	-
24	IMPORTANT: Perform the setup procedures for the RIM. Replace the RIM. Refer to <u>Rear Integration Module Replacement</u> in Body Control System. Did you complete the replacement?	Go to Step 26	-
25	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 26	-
26	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

READING LAMP(S) INOPERATIVE

Reading Lamp(s) Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Close all of the doors. 2. Turn OFF the courtesy lamps. 3. Turn ON the ignition, with the engine OFF. 4. Turn On and OFF the reading lamps. Do the reading lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Does the courtesy lamp function of the inoperative reading/courtesy lamp operate properly?	Go to Step 4	Go to <u>Courtesy Lamps Inoperative</u>

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4	Test the ground circuit of the inoperative reading/courtesy 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 7	Go to Step 5
5	Inspect for poor connections at the harness connector of the reading/courtesy lamp. 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
6	Replace the inoperative reading/courtesy lamp. 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 2

REPEATER LAMPS INOPERATIVE

Repeater Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Operate the turn signals. 3. Observe the repeater lamps. Do the repeater lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the turn signals operate properly?	Go to Step 4	Go to <u>Turn Signal Lamps and/or Indicators Inoperative</u>
	1. Turn OFF the ignition.		

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4	2. Disconnect the inoperative repeater lamp bulb. 3. Turn ON the ignition, with the engine OFF. 4. Place the turn signal switch in the appropriate position. 5. Connect a test lamp between the front turn signal lamp supply voltage circuit of the inoperative repeater lamp and the ground circuit of the inoperative repeater lamp. Does the test lamp flash ON and OFF?	Go to Step 6	Go to Step 5
5	Test for an open or high resistance in the front turn signal lamp supply voltage 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 9	Go to Step 7
6	Inspect for poor connections at the inoperative repeater lamp bulb. 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	Repair an open or high resistance in the ground circuit of the inoperable repeater lamp. Refer to <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 9	-
8	Replace the inoperative repeater 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 2

STOP LAMPS ALWAYS ON

Test Description

The number below refers to the step number on the diagnostic table.

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3: Listen for an audible click when the relay operates.

Stop Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Observe the stop lamps. 2. Press and release the brake pedal. Do the stop lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Press and release the brake pedal. Does the bass relay turn ON and OFF?	Go to Step 4	Go to Step 5
4	1. Turn OFF the ignition. 2. Disconnect the bass relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. 3. Turn ON the ignition, with the engine OFF. Do the stop lamps turn OFF?	Go to Step 5	Go to Step 7
5	1. Turn OFF the ignition. 2. Connect a test lamp between the coil side supply voltage circuit of the bass relay and the control circuit of the bass relay. 3. Turn ON the ignition, with the engine OFF. 4. Press and release the brake pedal. Does the test lamp turn ON and OFF?	Go to Step 8	Go to Step 6

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6	Test the control circuit of the bass relay for a short 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 9
7	Test the stop lamp 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 12	Go to Step 8
8	Inspect for poor connections at the bass 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 12	Go to Step 10
9	Inspect for poor connections at the harness connector of the electronic brake control module (EBCM). 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 bass 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 12	-
11	1. Replace the EBCM. Refer to <u>Electronic Brake Control Module Replacement</u> in Antilock Brake System. 2. Perform the brake pedal position sensor recalibration procedure. Refer to <u>Brake Pedal Position Sensor Calibration Description and Operation</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 2

STOP LAMPS INOPERATIVE

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Test Description

The numbers below refer to the step numbers on the diagnostic table.

- 3:** Listen for an audible click when the relay operates.
- 4:** Tests for voltage at the coil side of the relay.
- 5:** Verifies that the control module is providing ground to the relay.

Stop Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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. Observe the stop lamps. 2. Press and release the brake pedal. Do the stop lamps operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Press and release the brake pedal. Does the bass relay turn ON and OFF?	Go to Step 6	Go to Step 4
4	1. Turn OFF the ignition. 2. Disconnect the bass relay. Refer to <u>Relay Replacement (Within an Electrical Center)</u> or <u>Relay Replacement (Attached to Wire Harness)</u> in Wiring Systems. 3. Turn ON the ignition, with the engine OFF. 4. Probe the coil side supply voltage circuit of the bass relay with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 5	Go to Step 14
	1. Turn OFF the ignition.		

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5	2. Connect a test lamp between the coil side supply voltage circuit of the bass relay and the control circuit of the bass relay. 3. Turn ON the ignition, with the engine OFF. 4. Press and release the brake pedal. Does the test lamp turn ON and OFF?	Go to Step 12	Go to Step 9
6	Probe the switch side supply voltage circuit of the bass relay with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 7	Go to Step 15
7	Connect a 10-amp fused jumper between the switch side supply voltage circuit of the bass relay and the stop lamp switch signal circuit of the bass relay. Do the stop lamps illuminate?	Go to Step 12	Go to Step 8
8	1. Turn OFF the ignition. 2. Disconnect the inoperable stop lamp. 3. Connect a test lamp between the stop lamp switch signal circuit of the inoperable stop lamp and the ground circuit of the inoperable stop lamp. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 11	Go to Step 10
9	Test the control circuit of the bass relay for 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 20	Go to Step 13
10	Test the stop lamp switch signal circuit 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 20	Go to Step 16

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11	Inspect for poor connections at the stop lamp. 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 20	Go to Step 18
12	Inspect for poor connections at the bass 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 20	Go to Step 17
13	Inspect for poor connections at the harness connector of the electronic brake control module (EBCM). 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 20	Go to Step 19
14	Repair the open circuit in the coil side supply voltage circuit of the bass relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 20	-
15	Repair the open circuit in the switch side supply voltage circuit of the bass relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 20	-
16	Repair the open circuit in the ground circuit of the inoperable stop lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 20	-
17	Replace the bass 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 20	-
	Replace the inoperable stop lamp. Refer to <u>Tail</u>		

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18	<u>Lamp Replacement</u> and <u>High Mounted Stop Lamp Replacement</u> . Did you complete the replacement?	Go to Step 20	-
19	1. Replace the EBCM. Refer to <u>Electronic Brake Control Module Replacement</u> in Antilock Brake System. 2. Perform the brake pedal position sensor recalibration procedure. Refer to <u>Brake Pedal Position Sensor Calibration Description and Operation</u> . Did you complete the replacement?	Go to Step 20	-
20	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

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>Master Electrical Component List</u> in Wiring Systems			
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. Turn ON the ignition, with the engine OFF. 2. Observe the turn signal lamps and indicators. 3. Turn ON and OFF the right and left turn signal lamps. 4. Turn OFF the ignition. Do the turn signal lamps and indicators operate properly?	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 always on or flashing?	Go to Step 6	Go to Step 4

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4	Test the supply voltage circuit of the always on or flashing turn signal bulb or indicator 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 16	Go to Step 5
5	1. Disconnect the turn signal/hazard flasher module. 2. Connect a test lamp between the always on or flashing turn signal switch signal circuit of the turn signal/hazard flasher module and a good ground. 3. Turn OFF the always ON or flashing turn signal. Does the test lamp illuminate?	Go to Step 7	Go to Step 8
6	1. Disconnect the Instrument panel cluster (IPC). 2. Connect a test lamp between the turn signal lamps supply voltage circuit of the always on or flashing turn signal indicator and the IPC ground circuit. 3. Turn OFF the always on or flashing turn signal indicator. Does the test lamp illuminate?	Go to Step 9	Go to Step 12
7	Test the 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 16	Go to Step 11
8	Test the ignition 1 voltage circuit of the multifunction, turn signal 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 16	Go to Step 10
9	Test the turn signal lamps supply voltage circuit of the IPC for a short to voltage. 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
10	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>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 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 16	Go to Step 14
12	Inspect for poor connections at the harness connector of 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 16	Go to Step 15
13	Replace the turn signal/hazard flasher module. Refer to <u>Hazard and Turn Signal Flasher Replacement</u> . Did you complete the replacement?	Go to Step 16	-
14	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 16	-
15	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 16	-
16	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

TURN SIGNAL LAMPS AND/OR INDICATORS INOPERATIVE

Turn Signal Lamps and/or Indicators Inoperative

Step	Action	Yes	No
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Schematic Reference: Exterior Lights Schematics

Connector End View Reference: Master Electrical Component List in Wiring Systems

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. Turn ON the ignition, with the engine OFF. 2. Observe the turn signal lamps and indicators. 3. Turn ON and OFF the right and left turn signal lamps. Do the turn signal lamps and indicators operate properly?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Are all of the turn signals and indicators inoperative?	Go to Step 5	Go to Step 4
4	Are only the turn signal indicators inoperative?	Go to Step 12	Go to Step 7
5	1. Turn OFF the ignition. 2. Disconnect the turn signal/hazard flasher module. 3. Connect a test lamp between the turn signal/hazard flasher module supply voltage circuit and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 6	Go to Step 20
6	1. Turn OFF the ignition. 2. Connect a test lamp between the supply voltage circuit of the turn signal/hazard flasher module and the ground circuit of the turn signal/hazard flasher module. 3. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 10	Go to Step 21

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7	1. Turn OFF the ignition. 2. Disconnect the inoperative turn signal bulb or LED lamp. 3. Connect a test lamp between the supply voltage circuit of the inoperative turn signal bulb or LED lamp and the ground circuit of the inoperative turn signal bulb or LED lamp. 4. Turn ON the inoperative turn signal. Does the test lamp flash ON and OFF?	Go to Step 19	Go to Step 8
8	Test the inoperative turn signal supply voltage circuit 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 27	Go to Step 9
9	Test the inoperative turn signal ground circuit 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 27	Go to Step 10
10	1. Turn OFF the ignition. 2. Disconnect the multifunction, turn signal switch. 3. Connect a test lamp between the ignition 1 voltage circuit of the multifunction, turn signal switch and a good ground. 4. Turn ON the ignition, with the engine OFF. Does the test lamp illuminate?	Go to Step 11	Go to Step 22
	1. Turn OFF the ignition. 2. Reconnect the multifunction, turn signal switch. 3. Disconnect the turn signal/hazard flasher module.		

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11	- Connect a test lamp between the inoperative turn signal switch signal circuit of the turn signal/hazard flasher module and a good ground. - Turn ON the inoperative turn signal. Does the test lamp illuminate?	Go to Step 16	Go to Step 13
12	- Turn OFF the ignition. - Disconnect the Instrument Panel Cluster (IPC). - Connect a test lamp between the turn signal lamp supply voltage circuit of the inoperative turn indicator and the IPC ground circuit. - Turn ON the inoperative turn signal indicator. Does the test lamp flash ON and OFF?	Go to Step 18	Go to Step 14
13	Test the inoperative turn signal switch signal circuit for a 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 27	Go to Step 17
14	Test the turn signal lamps supply voltage circuit for a 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 27	Go to Step 15
15	Test the IPC ground circuit for a 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 27	Go to Step 16
16	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 27	Go to Step 23

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17	Inspect for poor connections at the harness connector of 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 27	Go to Step 24
18	Inspect for poor connections at the harness connector of 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 27	Go to Step 25
19	Inspect for poor connections at the inoperative turn signal bulb or LED lamp. 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 27	Go to Step 26
20	Repair the open, high resistance or short to ground in the turn signal/hazard flasher module supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 27	-
21	Repair the open or high resistance in the turn signal/hazard flasher module ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 27	-
22	Repair the open in the ignition 1 voltage circuit of the multifunction, turn signal switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you complete the repair?	Go to Step 27	-
23	Replace the turn signal/hazard flasher module. Refer to <u>Hazard and Turn Signal Flasher Replacement</u> . Did you complete the replacement?	Go to Step 27	-

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24	Replace the multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 27	-
25	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 27	-
26	Replace the inoperative turn signal bulb or LED lamp. Refer to <u>Fog Lamp, Turn Signal Lamp, Daytime Running Lamp (DRL) Assembly and/or Bulb Replacement</u> and <u>Tail Lamp Replacement</u> . Did you complete the replacement?	Go to Step 27	-
27	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

TWILIGHT SENTINEL INOPERATIVE

Twilight Sentinel Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Lighting Systems</u>
	1. Turn ON the ignition, with the engine OFF. 2. Turn OFF the wipers. 3. Position the headlamps switch in the AUTO position. 4. Position the headlamp dimmer switch to the low beam position. 5. Depress and hold the brake pedal. 6. Move the gear selector out of park position. 7. Verify the parking brake is disengaged.		

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2	8. Expose the sunload sensor assembly to a bright light. 9. Observe the headlamps. 10. Wait about 20 seconds. 11. Cover the sunload sensor assembly. 12. Wait about 20 seconds. 13. Place the gear selector in the park position. 14. Release the brake pedal. 15. Turn OFF the ignition. Do the headlamps switch between low beam and daytime running lamps (DRL)?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems	Go to Step 3
3	Do the DRL and headlamps operate properly?	Go to Step 4	Go to <u>Daytime Running Lamps (DRL) Inoperative (Domestic/Canada)</u> or <u>Daytime Running Lamps (DRL) Inoperative (Norway/Sweden)</u> or <u>Headlamps Inoperative - Low Beams (Standard or w/TR7-TT6)</u> or <u>Headlamps Inoperative - Low Beams (w/Leveling (TR7) and HID (TT6))</u> or <u>Headlamps Inoperative - Low Beams (w/HID (TT6))</u>
	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF.		

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4	3. Position the headlamps switch in the AUTO position. 4. With a scan tool, observe the twilight switch parameter in the dash integration module (DIM) Inputs data list. Does the twilight switch parameter display ON?	Go to Step 9	Go to Step 5
5	1. Disconnect the multifunction, turn signal switch. 2. Connect a 3-amp fused jumper between the twilight sentinel delay signal circuit of the multifunction, turn signal switch and the ground circuit of the multifunction, turn signal switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, observe the twilight switch position parameter in the dash integration module (DIM) Inputs data list. Does the twilight switch parameter display ON?	Go to Step 8	Go to Step 6
6	Test the ground circuit of the multifunction, turn signal switch 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 12	Go to Step 7
7	Test the twilight sentinel delay signal circuit of the multifunction, turn signal 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 9
	Inspect for poor connections at the harness connector of the multifunction, turn signal switch. Refer to <u>Testing for Intermittent</u>		

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8	<u>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
9	Inspect for poor connections at the harness connector of the DIM. 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 multifunction, turn signal switch. Refer to <u>Multifunction, Turn Signal Switch Replacement</u> in Steering Wheel and Column. Did you complete the replacement?	Go to Step 12	-
11	IMPORTANT: Perform the setup procedure for the DIM. Replace the DIM. Refer to <u>Dash Integration Module Replacement</u> in Body Control System. 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 2

VANITY MIRROR LAMP(S) ALWAYS ON

Vanity Mirror Lamp(s) Always On

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Master Electrical Component List</u> in Wiring Systems			
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 courtesy lamps. 2. Open and close the vanity mirror cover.	Go to <u>Testing for Intermittent Conditions and</u>	

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	Did the vanity mirror lamps operate properly?	Poor Connections in Wiring Systems	Go to Step 3
3	Inspect for poor connections at the harness connector of the vanity mirror lamp. 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 5	Go to Step 4
4	Replace the vanity mirror lamp. Refer to Vanity Mirror Lamp Replacement . Did you complete the replacement?	Go to Step 5	-
5	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 2

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>Master Electrical Component List</u> in Wiring Systems			
1	Did you perform the Lighting Systems Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - Lighting Systems
2	1. Cover the sunload sensor assembly. 2. Turn ON the courtesy lamps. 3. Open and close the vanity mirror cover. Did the vanity mirror lamps operate properly?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	Do the courtesy lamps operate properly?	Go to Step 4	Go to Courtesy Lamps Inoperative
	1. Place the interior lamp switch in the ON position. 2. Open the vanity mirror. 3. Remove the inoperative bulb from the		

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4	vanity mirror lamp. 4. Connect a test lamp between the courtesy lamp supply voltage circuit of the inoperative vanity mirror lamp bulb and the ground circuit of the inoperative vanity lamp bulb. Does the test lamp illuminate?	Go to Step 6	Go to Step 5
5	Test the courtesy lamp supply voltage circuit for a high resistance or 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 7
6	Inspect for poor connections at the inoperative vanity mirror lamp bulb. 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	Repair the high resistance or an open in the ground circuit of the inoperative vanity mirror lamp bulb. 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 inoperative vanity mirror 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 2