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## 2006 FORD Expedition OEM Service and Repair Workshop Manual

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- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280E-8	$\Omega$	Ground

**Is the resistance less than 3 ohms?**


<b>Yes</b>	INSTALL a new headlamp switch or bed lamp switch.
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<b>No</b>	GO to <a href="#">J5</a>
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### J5 CHECK THE CARGO/BED LAMP SWITCH GROUND CIRCUIT

- Connect a fused jumper wire:

#### Headlamp switch

Positive Lead	Measurement / Action	Negative Lead
C205-12		Ground

#### Truck bed lamp switch

Positive Lead	Measurement / Action	Negative Lead
C4496-1		Ground

- Measure:

Positive Lead	Measurement / Action	Negative Lead
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Positive Lead	Measurement / Action	Negative Lead
C2280E-8	$\Omega$	Ground

**Is the resistance greater than 10,000 ohms?**

<b>Yes</b>	INSTALL a new headlamp switch. REFER to: Headlamp Switch (417-01 Exterior Lighting, Removal and Installation.
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<b>No</b>	If not equipped with bed lamps, REPAIR the cargo lamp switch input circuit for a short to ground. If equipped with bed lamps, GO to <a href="#">J8</a>
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### J8 ISOLATE THE TRUCK BED LAMP SWITCH

- Disconnect Truck bed lamp switch C4496 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280E-8	$\Omega$	Ground

**Is the resistance greater than 10,000 ohms?**

<b>Yes</b>	INSTALL a new truck bed lamp switch.
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<b>No</b>	REPAIR the cargo/bed lamp switches input circuit for a short to ground.
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### J9 CHECK THE BCM (BODY CONTROL MODULE) CARGO/TRAILER ASSIST LAMP OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect BCM (body control module) C2280C .

C9125-7		Ground
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**Is the voltage greater than 11 volts?**

<b>Yes</b>	GO to <a href="#">J14</a>
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<b>No</b>	GO to <a href="#">J11</a>
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### **J11 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE CARGO LAMPS**

- Using a diagnostic scan tool, perform the BCM (body control module) self-test.
- Clear the Diagnostic Trouble Codes (DTCs) and repeat the self-test (required to enable the lamp output driver if DTC (diagnostic trouble code) U1000:00 is present).
- Measure:

#### **Halogen high mounted stoplamp**

Positive Lead	Measurement / Action	Negative Lead
C904-2		Ground

#### **LED (light emitting diode) high mounted stoplamp**

Positive Lead	Measurement / Action	Negative Lead
C9030-2		Ground

#### **LED (light emitting diode) high mounted stoplamp with 360 camera**

Positive Lead	Measurement / Action	Negative Lead

C9125-7	$\Omega$	Ground
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**Is the resistance greater than 10,000 ohms?**

<b>Yes</b>	GO to <a href="#">J13</a>
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<b>No</b>	<p>REPAIR the circuit. After the repair:</p> <p>If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation.</p> <p>If DTC (diagnostic trouble code) U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC (diagnostic trouble code) U1000:00 is present).</p> <p>If DTC (diagnostic trouble code) U3000:49 is present, INSTALL a new BCM (body control module) after all other Diagnostic Trouble Codes (DTCs) have been addressed.</p> <p>REFER to: <a href="#">Body Control Module (BCM)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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**J13 CHECK THE BCM (BODY CONTROL MODULE) CARGO/SCUFF PLATE/TRAILER ASSIST LAMPS OUTPUT CIRCUIT FOR AN OPEN**


- Measure:

**Halogen high mounted stoplamp**

Positive Lead	Measurement / Action	Negative Lead
C904-2	$\Omega$	C2280C-12

**LED (light emitting diode) high mounted stoplamp**

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C9125-7		C9125-6


**Is the voltage greater than 11 volts?**

<b>Yes</b>	INSTALL a new high mounted stoplamp. REFER to: High Mounted Stoplamp (417-01 Exterior Lighting, Removal and Installation.
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<b>No</b>	REPAIR the circuit.
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### J15 CHECK THE TRAILER ASSIST LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Close the door.
- Disconnect Trailer assist lamp C4500 .
- Ignition ON.
- Open a door.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C4500-1		Ground

**Is the voltage greater than 11 volts?**

<b>Yes</b>	GO to <a href="#">J16</a>
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<b>No</b>	REPAIR the circuit.
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### J16 CHECK THE TRAILER ASSIST LAMP GROUND CIRCUIT FOR AN OPEN

<b>No</b>	REPAIR the circuit.
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### J18 CHECK THE SCUFF PLATE LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

#### LH (left-hand) scuff plate lamp

Positive Lead	Measurement / Action	Negative Lead
C3251-1		C3251-2

#### RH (right-hand) scuff plate lamp

Positive Lead	Measurement / Action	Negative Lead
C3250-1		C3250-2

#### Is the voltage greater than 11 volts?

<b>Yes</b>	INSTALL a new scuff plate lamp.
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<b>No</b>	REPAIR the circuit.
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### J19 CHECK FOR VOLTAGE TO THE BED LAMPS

- Disconnect If one bed lamp is inoperative, LH (left-hand) truck bed lamp C4494 or RH (right-hand) truck bed lamp C4495 .
- Disconnect If both bed lamps are inoperative, LH (left-hand) truck bed lamp C4494 and RH (right-hand) truck bed lamp C4495 .
- Ignition ON.
- Open a door.

- Using a diagnostic scan tool, perform the BCM (body control module) self-test.
- Clear the Diagnostic Trouble Codes (DTCs) and repeat the self-test (required to enable the lamp output driver if DTC (diagnostic trouble code) U1000:00 is present).
- Measure:

**LH (left-hand) truck bed lamp**

Positive Lead	Measurement / Action	Negative Lead
C4494-1		Ground

**Is the voltage greater than 11 volts?**


<b>Yes</b>	INSTALL a new LH (left-hand) truck bed lamp.
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<b>No</b>	GO to <a href="#">J21</a>
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**J21 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE RH (RIGHT-HAND) BED LAMP**

- Ignition OFF.
- Disconnect RH (right-hand) truck bed lamp C4495 .
- Ignition ON.
- Using a diagnostic scan tool, perform the BCM (body control module) self-test.
- Clear the Diagnostic Trouble Codes (DTCs) and repeat the self-test (required to enable the lamp output driver if DTC (diagnostic trouble code) U1000:00 is present).
- Measure:

**RH (right-hand) truck bed lamp**

Positive Lead	Measurement / Action	Negative Lead
C4495-1		Ground

**Is the voltage greater than 11 volts?**



## J23 CHECK THE BCM (BODY CONTROL MODULE) BED LAMPS OUTPUT CIRCUIT FOR AN OPEN

- If one bed lamp is inoperative, measure:

### LH (left-hand) truck bed lamp

Positive Lead	Measurement / Action	Negative Lead
C4494-1	$\Omega$	C2280E-9

### RH (right-hand) truck bed lamp

Positive Lead	Measurement / Action	Negative Lead
C4495-1	$\Omega$	C2280E-9

- If both bed lamps are inoperative, measure:

### LH (left-hand) truck bed lamp

Positive Lead	Measurement / Action	Negative Lead
C4494-1	$\Omega$	C2280E-9

Is the resistance less than 3 ohms?

<b>Yes</b>	GO to <a href="#">J26</a>
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<b>No</b>	REPAIR the circuit.
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## J24 CHECK THE BED LAMP GROUND CIRCUIT

- If one bed lamp is inoperative, measure:

### LH (left-hand) truck bed lamp

- corrosion (install new connector or terminals – clean module pins)
- damaged or bent pins – install new terminals/pins
- pushed-out pins – install new pins as necessary
- Reconnect the BCM (body control module) connectors and related in-line connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

**Is the concern still present?**

<b>Yes</b>	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BCM (body control module) .</p> <p>REFER to: <a href="#">Body Control Module (BCM)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
<b>No</b>	<p>The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues. CLEAR the Diagnostic Trouble Codes (DTCs).</p>