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1998 FORD Expedition OEM Service and Repair Workshop Manual

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C930-10	Ω	Ground
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Is the resistance greater than 10,000 ohms?

Yes	GO to B5
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No	<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: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).</p>
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B5 CHECK THE BCM (BODY CONTROL MODULE) COURTESY LAMP OUTPUT CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C930-10	Ω	C2280C-13

Is the resistance less than 3 ohms?

Yes	GO to B12
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No	REPAIR the circuit.
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C964-1		Ground
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Is the voltage greater than 11 volts?


Yes	GO to B8
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No	REPAIR the circuit.
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B8 CHECK THE REAR COURTESY LAMP GROUND CIRCUIT

- Measure:

LH (left-hand) rear interior lamp

Positive Lead	Measurement / Action	Negative Lead
C963-1		C963-3

RH (right-hand) rear interior lamp

Positive Lead	Measurement / Action	Negative Lead
C964-1		C964-3

Is the voltage greater than 11 volts?

Yes	GO to B9
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No	REPAIR the circuit.
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Is the resistance less than 3 ohms?

Yes	GO to B11
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No	REPAIR the circuit.
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B11 CHECK THE REAR LAMP CONTROL CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C930-3	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	If both rear interior lamps are inoperative, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). If only one rear interior lamp is inoperative, INSTALL a new rear interior lamp.
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No	REPAIR the circuit.
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B12 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body control module) connectors and related in-line connectors.
- Repair:
 - 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.

BCM (body control module) B11C1:01	Passenger Side Rear Door Ajar Switch: General Electrical Failure	An on-demand DTC (diagnostic trouble code) that sets when the BCM (body control module) detects a fault on the RH (right-hand) rear door ajar circuit.
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Possible Sources

- Wiring, terminals or connectors
- Door ajar switch
- BCM (body control module)

C1 CHECK THE DOOR AJAR SWITCH PARAMETER IDENTIFICATIONS (PIDS)

- Ignition ON.
- Using a diagnostic scan tool, view BCM (body control module) Parameter Identifications (PIDs).
- Monitor the following BCM (body control module) Parameter Identifications (PIDs) while opening and closing all the doors.
 - Access the BCM (body control module) and monitor the DOOR_SW_DRV (Drivers Door Ajar Switch Status) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_PSGR (Passenger Door Ajar Switch Status) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_LR (Left Rear Door Ajar Switch) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_RR (Right Rear Door Ajar Switch) PID (parameter identification)

Do all the door ajar switch PID (parameter identification) values agree with the door positions?

Yes	For the interior courtesy lamps, GO to Pinpoint Test D For the puddle lamps, GO to Pinpoint Test G
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No	GO to C2
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C2 BYPASS THE SUSPECT DOOR LATCH

- Disconnect Suspect door latch.
- Connect a fused jumper wire:

LH (left-hand) front door ajar switch

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C804-3		C804-4

- Using a diagnostic scan tool, view BCM (body control module) Parameter Identifications (PIDs).
- Monitor the following BCM (body control module) Parameter Identifications (PIDs).
 - Access the BCM (body control module) and monitor the DOOR_SW_DRVR (Drivers Door Ajar Switch Status) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_PSGR (Passenger Door Ajar Switch Status) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_LR (Left Rear Door Ajar Switch) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_RR (Right Rear Door Ajar Switch) PID (parameter identification)

Does the PID (parameter identification) indicate the door in question is closed?


Yes	<p>REMOVE the fused jumper wire.</p> <p>For a front door, INSTALL a new front door latch.</p> <p>REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).</p> <p>For a SuperCab rear door, INSTALL a new rear door ajar switch.</p> <p>For a CrewCab rear door, INSTALL a new rear door latch.</p> <p>REFER to: Rear Door Latch - SuperCrew (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).</p>
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No	REMOVE the fused jumper wire. GO to C3
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C3 BYPASS THE DOOR LATCH GROUND CIRCUIT

- Connect a fused jumper wire:
LH (left-hand) front door ajar switch

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C804-3		Ground

- Using a diagnostic scan tool, view BCM (body control module) Parameter Identifications (PIDs).
- Monitor the following BCM (body control module) Parameter Identifications (PIDs).
 - Access the BCM (body control module) and monitor the DOOR_SW_DRVR (Drivers Door Ajar Switch Status) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_PSGR (Passenger Door Ajar Switch Status) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_LR (Left Rear Door Ajar Switch) PID (parameter identification)
 - Access the BCM (body control module) and monitor the DOOR_SW_RR (Right Rear Door Ajar Switch) PID (parameter identification)

Does the PID (parameter identification) indicate the door in question is closed?

Yes	REMOVE the fused jumper wire. REPAIR the ground circuit for an open.
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No	REMOVE the fused jumper wire. GO to C4
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C4 CHECK THE SUSPECT DOOR AJAR SWITCH INPUT CIRCUIT FOR AN OPEN

- Disconnect BCM (body control module) C2280E .
- Measure:

LH (left-hand) front door ajar switch

Positive Lead	Measurement / Action	Negative Lead
C525A-4	Ω	C2280E-33

RH (right-hand) front door ajar switch

Positive Lead	Measurement / Action	Negative Lead

No	REPAIR the door ajar input circuit in question.
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C5 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body control module) connectors and related in-line connectors.
- Repair:
 - 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?

Yes	<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: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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No	<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>
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PINPOINT TEST D : THE INTERIOR COURTESY LAMPS STAY ON CONTINUOUSLY

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

Normal Operation and Fault Conditions REFER to: [Interior Lighting - System Operation and Component Description](#)

(417-02 Interior Lighting, Description and Operation).

DTC Fault Trigger Conditions

- Ignition ON.

Do the interior courtesy lamps continue to illuminate?

Yes	GO to D3
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No	GO to D6
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D3 CHECK THE BCM (BODY CONTROL MODULE) COURTESY LAMP OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect Overhead console C930 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280C-13	\overline{V}	Ground

Is any voltage present?

Yes	REPAIR the circuit.
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No	GO to D4
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D4 CHECK THE REAR LAMP CONTROL CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect LH (left-hand) rear interior lamp C963 or RH (right-hand) rear interior lamp C964 .
- Measure:

LH (left-hand) rear interior lamp

Positive Lead	Measurement / Action	Negative Lead

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C930-3	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	<p>If both rear interior lamps are always on, INSTALL a new overhead console. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). If only one rear interior lamp is always on, INSTALL a new rear interior lamp.</p>
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No	REPAIR the circuit.
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D6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body control module) connectors and related in-line connectors.
- Repair:
 - 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?

Yes	<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) . REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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