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## 2010 FORD Explorer OEM Service and Repair Workshop Manual

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### **B3 CHECK THE BECM (BATTERY ENERGY CONTROL MODULE) "A" CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)**

- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, check the BECM (battery energy control module) "A" CMDTCS.

**Is DTC (diagnostic trouble code) U0111:87 retrieved again?**

<b>Yes</b>	GO to <a href="#">B4</a>
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<b>No</b>	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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### **B4 RETRIEVE THE BECM (BATTERY ENERGY CONTROL MODULE) "A" DIAGNOSTIC TROUBLE CODES (DTCS)**

- Using a diagnostic scan tool, perform the BECM (battery energy control module) "A" self-test.

**Are any BECM (battery energy control module) "A" DTCs recorded?**

<b>Yes</b>	DIAGNOSE and REPAIR those DTCs first. REFER to: <a href="#">High Voltage Battery, Mounting and Cables - Electric</a> (414-03A High Voltage Battery, Mounting and Cables, Diagnosis and Testing).
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<b>No</b>	GO to <a href="#">B5</a>
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### **B5 CHECK FOR BCMC (BODY CONTROL MODULE C) CMDTCS**

- Using a diagnostic scan tool, clear the DTCs.
- Wait 10 seconds.
- Using a diagnostic scan tool, check the BCMC (body control module C) CMDTCS.

**Is BCMC (body control module C) DTC (diagnostic trouble code) U0111:87 still present?**

FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BECM (battery energy control module) "A".

REFER to: [Battery Energy Control Module \(BECM\) - Electric](#)  
(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

**No**

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.

## **B8 CHECK FOR CORRECT BCMC (BODY CONTROL MODULE C) OPERATION**

- Ignition OFF.
- Disconnect and inspect all BCMC (body control module C) 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
- Connect the BCMC (body control module C) 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**

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 BCMC (body control module C) .

REFER to: [Body Control Module C \(BCMC\)](#)  
(419-10 Multifunction Electronic Modules, Removal and Installation).

**No**

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.

## **PINPOINT TEST C : U0121:87 OR U0415:81**

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

<b>No</b>	REFER to: <a href="#">Controller Area Network (CAN) Module Communications Network</a> (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
<b>C2 RETRIEVE THE BCMC (BODY CONTROL MODULE C) DIAGNOSTIC TROUBLE CODES (DTCS)</b>	
<ul style="list-style-type: none"> <li>Using a diagnostic scan tool, perform the BCMC (body control module C) self-test.</li> </ul> <b>Is DTC (diagnostic trouble code) U3003:16, or U3003:17 recorded?</b>	
<b>Yes</b>	For DTC (diagnostic trouble code) U3003:16, <a href="#">GO to Pinpoint Test M</a> For DTC (diagnostic trouble code) U3003:17, <a href="#">GO to Pinpoint Test N</a>
<b>No</b>	GO to <a href="#">C3</a>
<b>C3 CHECK FOR BCMC (BODY CONTROL MODULE C) CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)</b>	
<ul style="list-style-type: none"> <li>Using a diagnostic scan tool, clear the DTCs.</li> <li>Wait 10 seconds.</li> <li>Using a diagnostic scan tool, check the BCMC (body control module C) CMDTCS.</li> </ul> <b>Is DTC (diagnostic trouble code) U0121:87 retrieved again?</b>	
<b>Yes</b>	GO to <a href="#">C4</a>
<b>No</b>	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
<b>C4 RETRIEVE THE ABS (ANTI-LOCK BRAKE SYSTEM) MODULE DTCS</b>	
<ul style="list-style-type: none"> <li>Using a diagnostic scan tool, perform the ABS (anti-lock brake system) module self-test.</li> </ul> <b>Are any ABS (anti-lock brake system) module DTCS present?</b>	
<b>Yes</b>	DIAGNOSE and REPAIR those DTCS first. REFER to: <a href="#">Anti-Lock Brake System (ABS) and Stability Control</a> (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).

- 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 ABS (anti-lock brake system) module connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

**Is the concern still present?**

<b>Yes</b>	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 ABS (anti-lock brake system) module.
<b>No</b>	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.

**C8 CHECK FOR CORRECT BCMC (BODY CONTROL MODULE C) OPERATION**

- Ignition OFF.
- Disconnect and inspect all BCMC (body control module C) 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 all BCMC (body control module C) 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>	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 BCMC (body control module C) .  REFER to: <a href="#">Body Control Module C (BCMC)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).
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- Using a diagnostic scan tool, perform a network test.

**Does the VDM (vehicle dynamics control module) pass the network test?**

<b>Yes</b>	GO to <a href="#">D2</a>
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<b>No</b>	REFER to: <a href="#">Controller Area Network (CAN) Module Communications Network</a> (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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**D2 RETRIEVE THE BCMC (BODY CONTROL MODULE C) DIAGNOSTIC TROUBLE CODES (DTCS)**

- Using a diagnostic scan tool, perform the BCMC (body control module C) self-test.

**Is DTC (diagnostic trouble code) U3003:16, or U3003:17 recorded?**

<b>Yes</b>	For DTC (diagnostic trouble code) U3003:16, <a href="#">GO to Pinpoint Test M</a> For DTC (diagnostic trouble code) U3003:17, <a href="#">GO to Pinpoint Test N</a>
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<b>No</b>	GO to <a href="#">D3</a>
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**D3 RETRIEVE THE VDM (VEHICLE DYNAMICS CONTROL MODULE) DTCS**

- Using a diagnostic scan tool, perform the VDM (vehicle dynamics control module) self-test.

**Are any VDM (vehicle dynamics control module) DTCs recorded?**

<b>Yes</b>	DIAGNOSE and REPAIR those DTCs first. REFER to: <a href="#">Vehicle Dynamic Suspension</a> (204-05 Vehicle Dynamic Suspension, Diagnosis and Testing).
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<b>No</b>	GO to <a href="#">D4</a>
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**D4 CHECK FOR BCMC (BODY CONTROL MODULE C) CMDTCS**

- Clear all DTCs.
- Ignition OFF.

<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 VDM (vehicle dynamics control module) .</p> <p>REFER to: <a href="#">Vehicle Dynamics Control Module (VDM)</a> (204-05 Vehicle Dynamic Suspension, Removal and Installation).</p>
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<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.</p>
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### **D7 CHECK FOR CORRECT BCMC (BODY CONTROL MODULE C) OPERATION**

- Ignition OFF.
- Disconnect and inspect the BCMC (body control module C) 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
- Connect the BCMC (body control module C) 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 BCMC (body control module C) .</p> <p>REFER to: <a href="#">Body Control Module C (BCMC)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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<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.</p>
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- Connect the diagnostic tool.
- Ignition ON.
- Using a diagnostic scan tool, perform a network test.

**Does the BCM (body control module) pass the network test?**

<b>Yes</b>	GO to <a href="#">E3</a>
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<b>No</b>	REFER to: <a href="#">Controller Area Network (CAN) Module Communications Network</a> (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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**E2 RETRIEVE THE BCMC (BODY CONTROL MODULE C) DIAGNOSTIC TROUBLE CODES (DTCs)**

- Using a diagnostic scan tool, perform the BCMC (body control module C) self-test.

**Is DTC (diagnostic trouble code) U3003:16, or U3003:17 recorded?**

<b>Yes</b>	For DTC (diagnostic trouble code) U3003:16, <a href="#">GO to Pinpoint Test M</a> For DTC (diagnostic trouble code) U3003:17, <a href="#">GO to Pinpoint Test N</a>
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<b>No</b>	GO to <a href="#">E3</a>
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**E3 CHECK FOR BCMC (BODY CONTROL MODULE C) CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)**

- Using a diagnostic scan tool, clear the DTCs.
- Wait 10 seconds.
- Using a diagnostic scan tool, check the BCMC (body control module C) CMDTCS.

**Is DTC (diagnostic trouble code) U0140:87 retrieved again?**

<b>Yes</b>	GO to <a href="#">E4</a>
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<b>No</b>	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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No

GO to [E8](#)

## E7 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect the BCM (body control module) 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. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

### Is the concern still present?

Yes

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).

No

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.

## E8 CHECK FOR CORRECT BCMC (BODY CONTROL MODULE C) OPERATION

- Ignition OFF.
- Disconnect and inspect all BCMC (body control module C) 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
- Connect the BCMC (body control module C) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during the PMI (programmable module installation) or the PMI (programmable module installation) may not have been carried out.

## F1 CHECK THE COMMUNICATION NETWORK

- Connect the diagnostic tool.
- Ignition ON.
- Using a diagnostic scan tool, perform a network test.

**Does the GWM (gateway module A) pass the network test?**

<b>Yes</b>	GO to <a href="#">F3</a>
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<b>No</b>	REFER to: <a href="#">Controller Area Network (CAN) Module Communications Network</a> (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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## F2 RETRIEVE THE BCMC (BODY CONTROL MODULE C) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, perform the BCMC (body control module C) self-test.

**Is DTC (diagnostic trouble code) U3003:16, or U3003:17 recorded?**

<b>Yes</b>	For DTC (diagnostic trouble code) U3003:16, <a href="#">GO to Pinpoint Test M</a> For DTC (diagnostic trouble code) U3003:17, <a href="#">GO to Pinpoint Test N</a>
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<b>No</b>	GO to <a href="#">F3</a>
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## F3 CHECK FOR GWM (GATEWAY MODULE A) CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)

- Using a diagnostic scan tool, clear the DTCs.
- Wait 10 seconds.
- Using a diagnostic scan tool, check the GWM (gateway module A) CMDTCS.

**Is DTC (diagnostic trouble code) U0146:87 retrieved again?**

<b>Yes</b>	GO to <a href="#">F4</a>
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