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2007 FORD Explorer OEM Service and Repair Workshop Manual

[Go to manual page](#)

- Clear all DTCs.
- Ignition OFF.
- Wait 10 seconds.
- Ignition ON.
- Using a diagnostic scan tool, perform the BCM (body control module) self-test.

Is DTC (diagnostic trouble code) U0101:87 still present?

Yes	GO to C5
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No	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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C5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0101:87 SET IN OTHER MODULES

- Clear all DTCs.
- Ignition OFF.
- Wait 10 seconds.
- Ignition ON.
- Using a diagnostic scan tool, retrieve all CMDTCs.

Is DTC (diagnostic trouble code) U0101:87 set in other modules?

Yes	GO to C6
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No	GO to C7
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C6 CHECK FOR CORRECT TCM (TRANSMISSION CONTROL MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect the TCM (transmission control module) connector.
- 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 TCM (transmission control module) connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

- 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
- Connect 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?

<p>Yes</p>	<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>
<p>No</p>	<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>

PINPOINT TEST D : U0121:87

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

Normal Operation and Fault Conditions REFER to: [Module Controlled Functions - System Operation and Component Description](#)

(419-10 Multifunction Electronic Modules, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) U0121:87	Lost Communication With Anti-Lock Brake System (ABS) Control Module 'A': Missing Message	A continuous memory DTC (diagnostic trouble code) that sets in the BCM (body control module) if messages from the ABS (anti-lock brake system) module are missing.

No	GO to D3
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D3 RETRIEVE THE ABS (ANTI-LOCK BRAKE SYSTEM) MODULE DTCS

- Using a diagnostic scan tool, perform the ABS (anti-lock brake system) module self-test.

Are any ABS (anti-lock brake system) module DTCS present?

Yes	Diagnose those DTCS first. REFER to: Anti-Lock Brake System (ABS) and Stability Control (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing). REFER to: Anti-Lock Brake System (ABS) and Stability Control - Electric (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).
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No	GO to D4
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D4 RECHECK THE BCM (BODY CONTROL MODULE) CMDTCS

- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, check the BCM (body control module) CMDTCS.

Is DTC (diagnostic trouble code) U0121:87 still present?

Yes	GO to D5
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No	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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D5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0121:87 SET IN OTHER MODULES

- Using a diagnostic scan tool, clear the DTCs.
- Ignition OFF.
- Wait 10 seconds.
- Ignition ON.
- Using a diagnostic scan tool, retrieve all CMDTCS.

- 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	<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>
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.</p>

PINPOINT TEST E : U0122:87

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

Normal Operation and Fault Conditions REFER to: [Module Controlled Functions - System Operation and Component Description](#) (419-10 Multifunction Electronic Modules, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) U0122:87	Lost Communication With Vehicle Dynamics Control Module: Missing Message	A continuous memory DTC (diagnostic trouble code) that sets in the BCM (body control module) if messages from the VDM (vehicle dynamics control module) are missing.

Possible Sources

- Communication network concern
- Battery voltage concern
- VDM (vehicle dynamics control module)
- BCM (body control module)

- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, check the BCM (body control module) CMDTCs.

Is DTC (diagnostic trouble code) U3006:16, U3006:17, U3007:16, U3007:17, U3013:16, U3013:17, U3014:16 or U3014:17 recorded?

Yes	For DTC (diagnostic trouble code) U3006:16, U3007:16, U3013:16 or U3014:16, GO to Pinpoint Test AI For DTC (diagnostic trouble code) U3006:17, U3007:17, U3013:17 or U3014:17, GO to Pinpoint Test AJ
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No	GO to E3
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E3 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 present?

Yes	Diagnose those DTCs first. REFER to: Vehicle Dynamic Suspension (204-05 Vehicle Dynamic Suspension, Diagnosis and Testing).
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No	GO to E4
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E4 RECHECK THE BCM (BODY CONTROL MODULE) CMDTCS

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 VDM (vehicle dynamics control module) .</p> <p>REFER to: Vehicle Dynamics Control Module (VDM) (204-05 Vehicle Dynamic Suspension, 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.</p>
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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	<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.</p>
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No	REFER to: Module Controlled Functions - System Operation and Component Description(419-10 Multifunction Electronic Modules, Description and Operation) .
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F2 CHECK THE BCM (BODY CONTROL MODULE) 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 BCM (body control module) CMDTCS.

Is DTC (diagnostic trouble code) U3006:16, U3006:17, U3007:16, U3007:17, U3013:16, U3013:17, U3014:16 or U3014:17 recorded?

Yes	For DTC (diagnostic trouble code) U3006:16, U3007:16, U3013:16 or U3014:16, GO to Pinpoint Test AI For DTC (diagnostic trouble code) U3006:17, U3007:17, U3013:17 or U3014:17, GO to Pinpoint Test AJ
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No	GO to F3
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F3 RETRIEVE THE PSCM (POWER STEERING CONTROL MODULE) DTCS FROM THE SELF-TEST

- Using a diagnostic scan tool, perform the PSCM (power steering control module) self-test.

Are any PSCM (power steering control module) DTCS present?

Yes	Diagnose those DTCS first. REFER to: Power Steering (211-02 Power Steering, Diagnosis and Testing).
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No	GO to F4
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F4 RECHECK THE BCM (BODY CONTROL MODULE) CMDTCS

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

FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new PSCM (power steering control module) .

REFER to: [Steering Gear](#)
(211-02 Power Steering, 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.

F7 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all 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.

PINPOINT TEST G : U0137:87

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

Is DTC (diagnostic trouble code) U3006:16, U3006:17, U3007:16, U3007:17, U3013:16, U3013:17, U3014:16 or U3014:17 recorded?

Yes	For DTC (diagnostic trouble code) U3006:16, U3007:16, U3013:16 or U3014:16, GO to Pinpoint Test AI For DTC (diagnostic trouble code) U3006:17, U3007:17, U3013:17 or U3014:17, GO to Pinpoint Test AJ
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No	GO to G3
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G3 RETRIEVE THE TBM (TRAILER BRAKE CONTROL MODULE) DTCS

- Using a diagnostic scan tool, perform the TBM (trailer brake control module) self-test.

Are any TBM (trailer brake control module) DTCs recorded?

Yes	Diagnose those DTCs first. REFER to: Auxiliary Brake System (206-10 Auxiliary Brake System, Diagnosis and Testing).
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No	GO to G4
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G4 RECHECK THE BCM (BODY CONTROL MODULE) CMDTCS

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

Is DTC (diagnostic trouble code) U0137:87 still present?

Yes	GO to G5
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No	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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G5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0137:87 SET IN OTHER MODULES