

Pinpoint Test - DTC: AU

U0100:87

Normal Operation and Fault Conditions

The BECMB uses information contained in messages from the PCM sent on the HS-CAN1.

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
U0100:87	Lost Communication with ECM/PCM "A": Missing Message	This DTC sets if the BECMB does not receive an expected message from the PCM.

Possible Causes

- Network traffic
- PCM
- BECMB
- Incorrect BECMB configuration
- Incorrect BECMB installed

PINPOINT TEST A : U0100:87

NOTE: Most faults are due to connector and/or wiring concerns. Carry out a thorough inspection and verification before proceeding with the pinpoint test.

NOTE: Only disconnect or reconnect SRS components when instructed to do so within a pinpoint test step. Failure to follow this instruction may result in incorrect diagnosis of the SRS.

NOTE: Always make sure the correct SRS component is being installed. Parts released for other vehicles may not be compatible even if they appear physically similar. Check the part number listed in the Ford parts catalog to make sure the correct component is being installed. If an incorrect SRS component is installed, Diagnostic Trouble Codes (DTCs) may set.

A1 VERIFY DIAGNOSTIC SCAN TOOL COMMUNICATION WITH THE PCM (POWERTRAIN CONTROL MODULE)



WARNING: Before beginning any service procedure in this section, refer to Safety Warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

- REFER to: [Pyrotechnic Device Health and Safety Precautions](#) (100-00 General Information, Description and Operation).
- Ignition ON.
- Connect the diagnostic scan tool.
- Check that a vehicle session can be established using the diagnostic scan tool.

Can a vehicle session be established?

Yes	GO to A2
No	To diagnose no communication with the PCM, REFER to: Communications Network (418-00) .

A2 CHECK THE BECMB (EXTENDED POWER MODULE) CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)

- Using a diagnostic scan tool, perform BECMB self-test.
- Using a diagnostic scan tool, clear BECMB Diagnostic Trouble Codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, perform BECMB self-test.

Is DTC U0100:87 retrieved again?

Yes	GO to A3
No	The system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

A3 CHECK FOR THE CORRECT BECMB (EXTENDED POWER MODULE)

- Using the Log Viewer function of the diagnostic scan tool, retrieve and record the BECMB part number.
- Check the recorded part number against the number listed in the Ford parts catalog.

Does the recorded part number match the number listed in the Ford parts catalog?

Yes	GO to A4
No	INSTALL the correct BECMB and use As-Built data when carrying out PMI. REFER to: Battery Energy Control Module B (BECMB) (501-20B) . GO to A6

A4 VERIFY THE BECMB (EXTENDED POWER MODULE) CONFIGURATION

- Carry out PMI for the BECMB. Manually enter As-Built data. Refer to the diagnostic scan tool instructions when carrying out PMI.
- Using a diagnostic scan tool, clear BECMB Diagnostic Trouble Codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, perform BECMB self-test.

Is DTC U0100:87 retrieved again?

Yes	GO to A5
No	The system is operating correctly at this time. The DTC was caused by an incorrect RCM configuration. GO to A6

A5 RETRIEVE THE RECORDED DIAGNOSTIC TROUBLE CODES (DTCs) FROM THE PCM (POWERTRAIN CONTROL MODULE) KOEO (KEY ON, ENGINE OFF) SELF-TEST

- Using a diagnostic scan tool, perform PCM self-test.
- Check for recorded Diagnostic Trouble Codes (DTCs) from the PCM KOEO self-test.

Is DTC P0562 or P0563 recorded?

Yes	DIAGNOSE the PCM Diagnostic Trouble Codes (DTCs). Refer to the appropriate section in Group 303 for the procedure.
No	GO to A6

A6 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0100:00 SET IN MODULES OTHER THAN THE BECMB (EXTENDED POWER MODULE)

- Using a diagnostic scan tool, perform self-test for all modules.

Is DTC U0100:00 set in the ABS module or in the RCM?

Yes	CHECK OASIS for any applicable service articles: TSB, GSB, SSM or FSA. 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 PCM. Refer to the appropriate section in Group 303 for the procedure.
No	CHECK OASIS for any applicable service articles: TSB, GSB, SSM or FSA. 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 BECMB. REFER to: Battery Energy Control Module B (BECMB) (501-20B) .