

Pinpoint Test - DTC: P

B11D8:12 and B11D8:14

Refer to Wiring Diagrams Cell 46 for schematic and connector information.

Normal Operation and Fault Conditions

The RCM transmits an event notification signal which communicates crash status and SRS deployment status to the BCM. When the BCM receives an event notification signal which indicates a crash, it initiates fuel cut-off.

The RCM monitors the event notification signal circuit for the following faults:

- Short to voltage
- Short to ground
- Open circuit

If a fault is detected, the RCM stores DTC B11D8:12 or B11D8:14 in memory. The airbag warning indicator does not illuminate if B11D8:12 or B11D8:14 is set.

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B11D8:12	Restraint Event Notification: Circuit Short to Battery	A fault is indicated when the RCM senses a short to voltage on the event notification signal circuit for more than 15 seconds.

B11D8:14	Restraint Event Notification: Circuit Short to Ground or Open	A fault is indicated when the RCM senses a short to ground or an open on the event notification signal circuit for more than 15 seconds.
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Possible Sources

- Wiring, terminals or connectors
- BCM
- RCM

PINPOINT TEST A : B11D8:12 AND B11D8:14



WARNING: Incorrect repair techniques or actions can cause an accidental Supplemental Restraint System (SRS) deployment. Never compromise or depart from these instructions. Failure to precisely follow all instructions could result in serious personal injury from an accidental deployment.

NOTICE: Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector.

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: Install new components only when directed to do so in the pinpoint test.

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.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

A1 RETRIEVE RCM (RESTRAINTS CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)



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.
- Using a diagnostic scan tool, perform the RCM self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was DTC B11D8:12 or B11D8:14 retrieved on-demand during self-test?

Yes	This fault cannot be cleared until it is corrected and the DTC is no longer retrieved on-demand during the self-test. For DTC B11D8:14, GO to A2 For DTC B11D8:12, GO to A5
No	This is an intermittent fault when present as a CMDTC only. GO to A8

A2 CHECK THE EVENT NOTIFICATION SIGNAL CIRCUIT FOR AN OPEN

- Ignition OFF.
- Depower the SRS.
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM C310A and C310B.
- Disconnect BCM C2280E.

Is the resistance less than 3 ohms?

Yes	GO to A3
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No	REPAIR the circuit. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to A9
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A3 CHECK THE EVENT NOTIFICATION SIGNAL CIRCUIT FOR A SHORT TO GROUND

Is the resistance greater than 10,000 ohms?

Yes	GO to A4
No	REPAIR the circuit. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to A9

A4 CONFIRM THE BCM (BODY CONTROL MODULE) OR RCM (RESTRAINTS CONTROL MODULE) FAULT

NOTE: Make sure all SRS electrical connectors and the BCM electrical connector are connected before carrying out the self-test. If not, Diagnostic Trouble Codes (DTCs) will be recorded.

- Ignition OFF.
- Depower the SRS.
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect BCM C2280E (if not previously disconnected).
- Disconnect RCM C310A and C310B (if not previously disconnected).
- Prior to reconnecting any previously disconnected SRS component:
 - Inspect connector(s) (including any inline connectors) for pushed-out, loose or spread terminals and loose or frayed wire connections at terminals.
 - Inspect wire harness for any damage, pinched, cut or pierced wires.
 - Repair any concerns found.
Refer to Wiring Diagrams Cell 5 for schematic and connector information.
- Connect BCM C2280E.

- Connect RCM C310A and C310B.
- Repower the SRS. Do not prove out the SRS at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.
- Using a diagnostic scan tool, perform the RCM self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was DTC B11D8:14 retrieved on-demand during self-test?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM). CLEAR the RCM Diagnostic Trouble Codes (DTCs) and REPEAT the RCM self-test. If DTC B11D8:14 returns, INSTALL a new RCM. REFER to: Restraints Control Module (RCM) (501-20B Supplemental Restraint System, Removal and Installation). GO to A9 If DTC B11D8:14 does not return, GO to A9
No	In the process of diagnosing the fault, the fault condition has become intermittent. Do not install any new SRS components at this time. SRS components should only be installed when directed to do so in the pinpoint test. GO to A8

A5 CHECK THE EVENT NOTIFICATION SIGNAL CIRCUIT DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE

NOTE: This pinpoint test step attempts to change the fault reported by the RCM by inducing a different fault condition. If the fault reported changes, this indicates the RCM is functioning correctly and is not the source of the fault.

- Disconnect BCM C2280E.
- Using a diagnostic scan tool, perform the RCM self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was DTC B11D8:12 retrieved on-demand during self-test?

Yes	GO to A6
No	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM). GO to A9

A6 CHECK THE EVENT NOTIFICATION SIGNAL CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Depower the SRS.
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM C310A and C310B.
- Repower the SRS. Do not prove out the SRS at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.

Is any voltage present?

Yes	REPAIR the circuit. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to A9
No	GO to A7

A7 CONFIRM THE RCM (RESTRAINTS CONTROL MODULE) FAULT

NOTE: Make sure all SRS electrical connectors and the BCM electrical connector are connected before carrying out the self-test. If not, Diagnostic Trouble Codes (DTCs) will be recorded.

- Ignition OFF.
- Depower the SRS.
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect BCM C2280E (if not previously disconnected).
- Disconnect RCM C310A and C310B (if not previously disconnected).
- Prior to reconnecting any previously disconnected SRS component:
 - inspect connector(s) (including any inline connectors) for pushed-out, loose or spread terminals and loose or frayed wire connections at terminals.
 - inspect wire harness for any damage, pinched, cut or pierced wires.
 - repair any concerns found.
Refer to Wiring Diagrams Cell 5 for schematic and connector information.
- Connect BCM C2280E.
- Connect RCM C310A and C310B.
- Repower the SRS. Do not prove out the SRS at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.
- Using a diagnostic scan tool, perform the RCM self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was the original DTC retrieved on-demand during self-test?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new RCM. REFER to: Restraints Control Module (RCM) (501-20B Supplemental Restraint System, Removal and Installation). GO to A9
No	In the process of diagnosing the fault, the fault condition has become intermittent. Do not install any new SRS components at this time. SRS components should only be installed when directed to do so in the pinpoint test. GO to A8

A8 CHECK FOR AN INTERMITTENT FAULT

- Ignition OFF.
- Depower the SRS.
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect BCM C2280E.
- Connect BCM C2280E.
- Connect RCM C310A and C310B.
- Repower the SRS. Do not prove out the SRS at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.
- Using a diagnostic scan tool, perform the RCM self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was DTC B11D8:12 or B11D8:14 retrieved on-demand during self-test?

Yes	The fault condition is now present. This fault cannot be cleared until it is corrected and the DTC is no longer retrieved on-demand during the self-test. For DTC B11D8:14, GO to A2 For DTC B11D8:12, GO to A5
No	CHECK for causes of the intermittent fault. ATTEMPT to recreate the hard fault by flexing the wire harness and cycling the ignition frequently. ACTIVATE other systems in the same wire harness. Do not install any new SRS components at this time. Only install SRS components when directed to do so in the pinpoint test. REPAIR any intermittent concerns found. GO to A9

A9 CHECK FOR ADDITIONAL SRS (SUPPLEMENTAL RESTRAINT SYSTEM) DIAGNOSTIC TROUBLE CODES (DTCS)

- Ignition OFF.
- Reconnect all SRS components (if previously disconnected).
- If previously directed to depower the SRS, repower the SRS. Do not prove out the SRS at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.
- **NOTE:** *When selecting Restraints from the Self Test menu, DTCs are retrieved from the RCM, OCSM and BECMB.*

Using a diagnostic scan tool, carry out RCM self-test.

Are any RCM, OCSM and/or BECMB Diagnostic Trouble Codes (DTCs) retrieved on-demand during self-test?

Yes	Do not clear any Diagnostic Trouble Codes (DTCs) until all Diagnostic Trouble Codes (DTCs) have been resolved. DIAGNOSE and REPAIR the Diagnostic Trouble Codes (DTCs). REFER to: Airbag Supplemental Restraint System (SRS) (501-20B Supplemental Restraint System, Diagnosis and Testing). REFER to: Airbag Supplemental Restraint System (SRS) - Raptor (501-20B Supplemental Restraint System, Diagnosis and Testing).
No	The repair is complete. RETURN the vehicle to the customer.