

## Pinpoint Test - DTC: AF

### BXXXX:4A (any BXXXX DTC with a 4A failure type) Incorrect Component Installed

#### Normal Operation and Fault Conditions

The RCM monitors all SRS device connections. If the RCM detects a connection or device connected that is not stored in memory or is not configured for the component, the RCM sets a DTC and sends a message to the IPC to illuminate the airbag warning indicator.

#### DTC Fault Trigger Conditions

| DTC      | Description                                                                   | Fault Trigger Conditions                                                                 |
|----------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| B0001:4A | Driver Frontal Stage 1 Deployment Control: Incorrect Component Installed      | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0002:4A | Driver Frontal Stage 2 Deployment Control: Incorrect Component Installed      | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0005:4A | Collapsible Steering Column Deployment Control: Incorrect Component Installed | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0010:4A | Passenger Frontal Stage 1 Deployment Control: Incorrect Component Installed   | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0011:4A | Passenger Frontal Stage 2 Deployment Control: Incorrect Component Installed   | This DTC sets if the RCM detects the device but it is not configured for this component. |
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| B0050:4A | Driver Seatbelt Sensor: Incorrect Component Installed                                 | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0052:4A | Passenger Seatbelt Sensor: Incorrect Component Installed                              | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0070:4A | Driver Seatbelt Pretensioner "A" Deployment Control: Incorrect Component Installed    | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0072:4A | Passenger Seatbelt Pretensioner "A" Deployment Control: Incorrect Component Installed | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B007E:4A | Driver Seatbelt Pretensioner "C" Deployment Control: Incorrect Component Installed    | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B007F:4A | Passenger Seatbelt Pretensioner "C" Deployment Control: Incorrect Component Installed | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B0080:4A | Driver Seatbelt Load Limiter Deployment Control: Incorrect Component Installed        | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B00B5:4A | Driver Seat Track Position Restraints Sensor: Incorrect Component Installed           | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B00C5:4A | Passenger Seat Track Position Restraints Sensor: Incorrect Component Installed        | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B00D5:4A | Restraint System Passenger Disable Indicator: Incorrect Component Installed           | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B11CF:4A | Passenger Frontal Airbag Canister Vent: Incorrect Component Installed                 | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1202:4A | Restraint System Passenger Enable Indicator: Incorrect Component Installed            | This DTC sets if the RCM detects the device but it is not configured for this component. |

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| B1404:4A | Driver Side Airbag Deployment Control: Incorrect Component Installed     | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1405:4A | Driver Curtain Deployment Control 1: Incorrect Component Installed       | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1407:4A | Passenger Side Airbag Deployment Control: Incorrect Component Installed  | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1408:4A | Passenger Curtain Deployment Control 1: Incorrect Component Installed    | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B140C:4A | Second Row Driver Side Seatbelt Sensor: Incorrect Component Installed    | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B140D:4A | Second Row Passenger Side Seatbelt Sensor: Incorrect Component Installed | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1413:4A | Driver Frontal Restraints Sensor: Incorrect Component Installed          | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1414:4A | Driver Side Restraints Sensor 1: Incorrect Component Installed           | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1415:4A | Driver Side Restraints Sensor 2: Incorrect Component Installed           | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1417:4A | Passenger Frontal Restraints Sensor: Incorrect Component Installed       | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1418:4A | Passenger Side Restraints Sensor 1: Incorrect Component Installed        | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1419:4A | Passenger Side Restraints Sensor 2: Incorrect Component Installed        | This DTC sets if the RCM detects the device but it is not configured for this component. |

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| B141B:4A | Second Row Driver Side Inflatable Seatbelt Deployment Control: Incorrect Component Installed    | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B141C:4A | Second Row Passenger Side Inflatable Seatbelt Deployment Control: Incorrect Component Installed | This DTC sets if the RCM detects the device but it is not configured for this component. |
| B1469:4A | Unused Satellite Restraints Sensor 1: Incorrect Component Installed                             | This DTC sets if the RCM detects an unexpected impact sensor.                            |
| B146A:4A | Unused Satellite Restraints Sensor 2: Incorrect Component Installed                             | This DTC sets if the RCM detects an unexpected impact sensor.                            |

## Possible Sources

- RCM not configured or configured incorrectly
- Incorrect RCM installed
- Incorrect impact sensor installed

## Visual Inspection and Diagnostic Pre-checks

- Review recent service history to identify repairs where an incorrect component may have been installed.

## PINPOINT TEST A : BXXXX:4A (ANY BXXXX DTC (DIAGNOSTIC TROUBLE CODE) WITH A 4A FAILURE TYPE) INCORRECT COMPONENT INSTALLED



**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.**

**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.

**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 RCM self-test.

**Were any incorrect component installed Diagnostic Trouble Codes (DTCs) retrieved on-demand during self-test?**

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Yes</b> | <p>This fault cannot be cleared until it is corrected and the DTC is no longer retrieved during self-test.</p> <p>If DTC B00A0:4A was retrieved,<br/>REFER to: <a href="#">Pinpoint Test - DTC: L</a> (501-20B Supplemental Restraint System, Diagnosis and Testing).</p> <p>If DTC U3003:16 or U3003:17 is retrieved on-demand as well, DIAGNOSE those Diagnostic Trouble Codes (DTCs) first.<br/>REFER to: <a href="#">Pinpoint Test - DTC: AN, Raptor</a> (501-20B Supplemental Restraint System, Diagnosis and Testing).</p> <p>For all other incorrect component installed Diagnostic Trouble Codes (DTCs), GO to <a href="#">A2</a></p> |
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|           |                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No</b> | If DTC U3003:16 or U3003:17 is retrieved on-demand as well, DIAGNOSE those Diagnostic Trouble Codes (DTCs) first.<br>REFER to: <a href="#">Pinpoint Test - DTC: AN, Raptor</a> (501-20B Supplemental Restraint System, Diagnosis and Testing). |
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If DTC U3003:16 or U3003:17 are not retrieved on-demand, DIAGNOSE the Continuous Memory Diagnostic Trouble Codes (CMDTCs).

This is an intermittent fault when present as a CMDTC only. GO to [A5](#)

## A2 CHECK THE RCM (RESTRAINTS CONTROL MODULE) PART NUMBER

- Ignition ON.
- Check the vehicle repair history. Using the Log Viewer function of the diagnostic scan tool, retrieve and record the RCM part number.
- Check the part number recorded against the number listed in the Ford parts catalog and verify the correct RCM is installed in the vehicle.

**Is the correct RCM installed?**

|            |                          |
|------------|--------------------------|
| <b>Yes</b> | GO to <a href="#">A3</a> |
|------------|--------------------------|

|           |                                                                                                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No</b> | INSTALL the correct RCM.<br>REFER to: <a href="#">Restraints Control Module (RCM)</a> (501-20B Supplemental Restraint System, Removal and Installation).<br>GO to <a href="#">A6</a> |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## A3 VERIFY THE RCM (RESTRAINTS CONTROL MODULE) CONFIGURATION

- Carry out PMI for the RCM. Use As-Built data when carrying out PMI. Refer to the scan tool instructions to carry out PMI.
- Using a diagnostic scan tool, perform RCM self-test.

**Were any incorrect component installed Diagnostic Trouble Codes (DTCs) retrieved on-demand during self-test?**

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | <p>For DTC B1413:4A, B1414:4A, B1415:4A, B1417:4A, B1418:4A or B1419:4A, GO to <a href="#">A4</a></p> <p>For all other incorrect component installed Diagnostic Trouble Codes (DTCs), 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.</p> <p>REFER to: <a href="#">Restraints Control Module (RCM)</a> (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>GO to <a href="#">A6</a></p> |
| <b>No</b>  | The fault is corrected. GO to <a href="#">A6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### **A4 VERIFY THE SUSPECT IMPACT SENSOR PART NUMBER**

- Ignition OFF.
- Depower the SRS.  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Gain access to the suspect impact sensor(s) for which incorrect component installed Diagnostic Trouble Codes (DTCs) were retrieved. Refer to the table for the appropriate procedure(s).

| DTC | Component | Procedure |
|-----|-----------|-----------|
|     |           |           |

|                                    |                                         |                                                                                                                                      |
|------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| B1413:4A                           | LH front impact severity sensor         | REFER to: <a href="#">Front Impact Severity Sensor</a> (501-20B Supplemental Restraint System, Removal and Installation).            |
| B1414:4A                           | Driver front door side impact sensor    | REFER to: <a href="#">Front Door Side Impact Sensor</a> (501-20B Supplemental Restraint System, Removal and Installation).           |
| B1415:4A (SuperCab vehicles only)  | LH B-pillar side impact sensor          | REFER to: <a href="#">B-Pillar Side Impact Sensor - SuperCab</a> (501-20B Supplemental Restraint System, Removal and Installation).  |
| B1415:4A (SuperCrew vehicles only) | LH C-pillar side impact sensor          | REFER to: <a href="#">C-Pillar Side Impact Sensor - SuperCrew</a> (501-20B Supplemental Restraint System, Removal and Installation). |
| B1417:4A                           | RH front impact severity sensor         | REFER to: <a href="#">Front Impact Severity Sensor</a> (501-20B Supplemental Restraint System, Removal and Installation).            |
| B1418:4A                           | Passenger front door side impact sensor | REFER to: <a href="#">Front Door Side Impact Sensor</a> (501-20B Supplemental Restraint System, Removal and Installation).           |

|                                    |                                |                                                                                                                                      |
|------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| B1419:4A (SuperCab vehicles only)  | RH B-pillar side impact sensor | REFER to: <a href="#">B-Pillar Side Impact Sensor - SuperCab</a> (501-20B Supplemental Restraint System, Removal and Installation).  |
| B1419:4A (SuperCrew vehicles only) | RH C-pillar side impact sensor | REFER to: <a href="#">C-Pillar Side Impact Sensor - SuperCrew</a> (501-20B Supplemental Restraint System, Removal and Installation). |

- Record the part number from each suspect impact sensor.
- Check the part number(s) recorded against the number listed in the Ford parts catalog and verify that each suspect impact sensor installed in the vehicle is correct.

**Do the part numbers of all suspect impact sensors match the part numbers listed in the Ford parts catalog?**

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | 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. GO to <a href="#">A6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>No</b>  | <p>INSTALL the correct impact sensor(s) as necessary. For DTC B1413:4A or B1417:4A,<br/> REFER to: <a href="#">Front Impact Severity Sensor</a> (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>For DTC B1414:4A or B1418:4A,<br/> REFER to: <a href="#">Front Door Side Impact Sensor</a> (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>For SuperCab vehicles with DTC B1415:4A or B1419:4A,<br/> REFER to: <a href="#">B-Pillar Side Impact Sensor - SuperCab</a> (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>For SuperCrew vehicles with DTC B1415:4A or B1419:4A,<br/> REFER to: <a href="#">C-Pillar Side Impact Sensor - SuperCrew</a> (501-20B Supplemental Restraint System, Removal and Installation).</p> |

## A5 CHECK FOR AN INTERMITTENT FAULT

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

**Were any incorrect component installed Diagnostic Trouble Codes (DTCs) retrieved on-demand during self-test?**

|            |                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | 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.<br>REFER to: <a href="#">Restraints Control Module (RCM)</a> (501-20B Supplemental Restraint System, Removal and Installation).<br>GO to <a href="#">A6</a> |
| <b>No</b>  | Do not install any new SRS components at this time. Install SRS components only when directed to do so in the pinpoint test. GO to <a href="#">A6</a>                                                                                                                                                                                                                                                 |

## A6 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?**

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|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | 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).<br>REFER to: <a href="#">Airbag Supplemental Restraint System (SRS)</a> (501-20B Supplemental Restraint System, Diagnosis and Testing).<br>REFER to: <a href="#">Airbag Supplemental Restraint System (SRS) - Raptor</a> (501-20B Supplemental Restraint System, Diagnosis and Testing). |
| <b>No</b>  | The repair is complete. RETURN the vehicle to the customer.                                                                                                                                                                                                                                                                                                                                                                                                      |