

## Pinpoint Test - DTC: AG

**C0061:68, C0062:68, C0063:68, C0064:68, C0065:68**

### Diagnostic Overview

### Normal Operation and Fault Conditions

The RCM provides the stability/traction control system with acceleration sensor data over the HS-CAN2. In addition to transmitting the data, the RCM monitors this data internally to make sure that the data is within an expected range.

If the data is outside of the expected range and a fault is detected, the RCM stores DTC C0061:68, C0062:68, C0063:68, C0064:68, and/or C0065:68 in memory. However, the RCM does not request that the IPC illuminate the airbag warning indicator when these faults are present.

### DTC Fault Trigger Conditions

| DTC      | Description                                         | Fault Trigger Conditions                                                                                                              |
|----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| C0061:68 | Lateral Acceleration Sensor: Event Information      | A fault is indicated when the lateral acceleration sensor is transmitting data that is outside of the range expected by the RCM.      |
| C0062:68 | Longitudinal Acceleration Sensor: Event Information | A fault is indicated when the longitudinal acceleration sensor is transmitting data that is outside of the range expected by the RCM. |
| C0063:68 | Yaw Rate Sensor: Event Information                  | A fault is indicated when the yaw rate sensor is transmitting data that is outside of the range expected by the RCM.                  |

|          |                                                 |                                                                                                                                   |
|----------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| C0064:68 | Roll Rate Sensor: Event Information             | A fault is indicated when the roll rate sensor is transmitting data that is outside of the range expected by the RCM.             |
| C0065:68 | Vertical Acceleration Sensor: Event Information | A fault is indicated when the vertical acceleration sensor is transmitting data that is outside of the range expected by the RCM. |

## Possible Sources

- Aggressive driving conditions or rough roads
- RCM mounting
- RCM

## PINPOINT TEST A : C0061:68, C0062:68, C0063:68, C0064:68, C0065:68

 **WARNING:** Do not handle, move or change the original horizontal mounting position of the Restraints Control Module (RCM) while the Restraints Control Module (RCM) is connected and the ignition switch is ON. Failure to follow this instruction may result in the accidental deployment of the Safety Canopy® and cause serious personal injury or death.

**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:** SRS components should only be disconnected or reconnected 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)

- Ignition ON.
- Using a diagnostic scan tool, perform RCM self-test.

**Were Diagnostic Trouble Codes (DTCs) C0061:68, C0062:68, C0063:68, C0064:68, or C0065:68 the only Diagnostic Trouble Codes (DTCs) retrieved?**

|            |                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | CLEAR the RCM Diagnostic Trouble Codes (DTCs). GO to <a href="#">A2</a>                                                           |
| <b>No</b>  | DIAGNOSE all other RCM Diagnostic Trouble Codes (DTCs) first.<br>REFER to: Airbag Supplemental Restraint System (SRS) (501-20B) . |

## **A2 CHECK FOR A RETURNING FAULT**

- Test drive the vehicle. Choose a route with LH and RH turns. Avoid rough roads and **do not** drive the vehicle aggressively.
- Using a diagnostic scan tool, perform RCM self-test.

**Were Diagnostic Trouble Codes (DTCs) C0061:68, C0062:68, C0063:68, C0064:68, or C0065:68 the only RCM Diagnostic Trouble Codes (DTCs) retrieved?**

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | GO to <a href="#">A3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>No</b>  | If no RCM Diagnostic Trouble Codes (DTCs) were retrieved, the Diagnostic Trouble Codes (DTCs) may have been triggered by aggressive driving or rough road conditions. INFORM the customer that aggressive driving conditions or rough road conditions can set these Diagnostic Trouble Codes (DTCs). RETURN the vehicle to the customer.<br>If any other RCM Diagnostic Trouble Codes (DTCs) were retrieved, DIAGNOSE those Diagnostic Trouble Codes (DTCs).<br>REFER to: Airbag Supplemental Restraint System (SRS) (501-20B) . |

## **A3 CHECK THE RCM (RESTRAINTS CONTROL MODULE) INSTALLATION**

- Ignition OFF.
- Depower the SRS.  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Inspect the RCM installation and make sure that the hardware is fully seated and tightened correctly.  
REFER to: Restraints Control Module (RCM) (501-20B) .
- Inspect the RCM mounting surface for damage, corrosion, or foreign materials.

**Is the RCM mounted correctly and is the mounting surface clean and free from damage?**

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| <b>Yes</b> | GO to <a href="#">A4</a>                                                            |
| <b>No</b>  | REPAIR the mounting or INSTALL new hardware, as necessary. GO to <a href="#">A6</a> |

#### **A4 CONFIRM THE RCM (RESTRAINTS CONTROL MODULE) FAULT**

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

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

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

|            |                                                                                                                                                                                                                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | 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.<br>If no service articles address this concern, INSTALL a new RCM.<br>REFER to: Restraints Control Module (RCM) (501-20B) .<br>GO to <a href="#">A6</a> |
| <b>No</b>  | In the process of diagnosing the fault, the fault condition has become intermittent. 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="#">A5</a>                                                                                                      |

## A5 CHECK THE HARNESS AND CONNECTORS

- Ignition OFF.
- Depower the SRS.  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM C310A and C310B.
- Inspect RCM C310A and C310B Connector Position Assurance (CPA) lever/lock for correct operation.
- Inspect RCM C310A and C310B for pushed-out, loose or spread terminals and loose or frayed wire connections at terminals.
- Inspect wire harnesses for any damaged, pinched, cut or pierced wires.

### Were any concerns found?

|            |                                                                                                                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | REPAIR as necessary.<br>Refer to Wiring Diagrams Cell 5 for schematic and connector information.<br>GO to <a href="#">A6</a>                                                                                         |
| <b>No</b>  | The fault is not present and cannot be recreated at this time. 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)



**WARNING:** Turn the ignition OFF and wait one minute to deplete the backup power supply. Failure to follow this instruction may result in serious personal injury or death in the event of an accidental deployment.

- 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 \(SRS\) Depowering](#) (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, if equipped, BECMB.

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

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

|            |                                                                                                                                                                                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | Do not clear any Diagnostic Trouble Codes (DTCs) until all Diagnostic Trouble Codes (DTCs) have been resolved.<br>REFER to: Airbag Supplemental Restraint System (SRS) (501-20B) . |
| <b>No</b>  | The repair is complete. RETURN the vehicle to the customer.                                                                                                                        |