

Pinpoint Test - DTC: L

B00A0:09, B00A0:4A, B00A0:63, B00A0:64 and B00A0:68

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

Normal Operation and Fault Conditions

The RCM is in constant communication with various control modules on the HS-CAN2. One of those modules is the OCSM. The RCM continuously monitors the HS-CAN2 for fault messages reported by the OCSM. The RCM also checks for the correct identification of the OCSM. If the RCM receives fault message(s) from the OCSM, it stores DTC B00A0:09, B00A0:4A, B00A0:63, B00A0:64 or B00A0:68 in memory and sends a message to the IPC to illuminate the airbag warning indicator.

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B00A0:09	Occupant Classification System: Component Failure	A fault is indicated when the RCM receives a message from the OCSM that a fault exists within the OCS.
B00A0:4A	Occupant Classification System: Incorrect Component Installed	A fault is indicated when the RCM senses the OCSM is present but not configured.
B00A0:63	Occupant Classification System: Circuit / Component Protection Time-Out	A fault is indicated when the RCM receives 8 or more invalid states from the OCSM.
B00A0:64	Occupant Classification System: Signal Plausibility Failure	A fault is indicated when the RCM receives messages containing upper or lower data limits other than limits stored in memory.

B00A0:68	Occupant Classification System: Event Information	A fault is indicated when the RCM receives a message from the OCSM that indicates an OCS fault is present.
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Possible Sources

- OCSM
- OCSM Diagnostic Trouble Codes (DTCs)
- RCM

PINPOINT TEST A : B00A0:09, B00A0:4A, B00A0:63, B00A0:64 AND B00A0:68

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: [Health and Safety Precautions](#) (100-00 General Information, Description and Operation).

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

Was DTC B00A0:09, B00A0:4A, B00A0:63, B00A0:64 or B00A0:68 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 self-test. For DTC B00A0:09, B00A0:63 or B00A0:68, RETRIEVE Diagnostic Trouble Codes (DTCs) from the OCSM and REFER to DTC Chart: OCSM for diagnostic direction. REFER to: Airbag Supplemental Restraint System (SRS) (501-20B) . For DTC B00A0:4A or B00A0:64, GO to A2
No	CHECK for causes of the intermittent fault. Refer to Wiring Diagrams Cell 46 for schematic and connector information. ATTEMPT to recreate the hard fault by flexing the wire harness and cycling the ignition frequently. 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 A5

A2 VERIFY THE OCSM (OCCUPANT CLASSIFICATION SYSTEM MODULE) PART NUMBER

- Using the Log Viewer function of the diagnostic scan tool, retrieve and record the OCSM part number.
- Check the part number recorded against the number listed in the parts catalog and verify the correct OCSM is present in the vehicle.

Is the correct OCSM installed?

Yes	GO to A3
No	INSTALL the correct OCSM. REFER to: Occupant Classification System (OCS) Sensor - Vehicles With: Multi-Contour Seats (501-20B) . REFER to: Front Impact Severity Sensor (501-20B) . GO to A5

A3 VERIFY THE RCM (RESTRAINTS CONTROL MODULE) PART NUMBER

- 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 parts catalog and verify the correct RCM is present in the vehicle.

Is the correct RCM installed?

Yes	GO to A4
No	INSTALL the correct RCM. REFER to: Restraints Control Module (RCM) (501-20B) . GO to A5

A4 VERIFY THE RCM (RESTRAINTS CONTROL MODULE) CONFIGURATION

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

Was DTC B00A0:4A retrieved on-demand during self-test?

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 RCM. REFER to: Restraints Control Module (RCM) (501-20B) . GO to A5
No	The fault is corrected. GO to A5

A5 CHECK FOR ADDITIONAL SRS (SUPPLEMENTAL RESTRAINT SYSTEM) DIAGNOSTIC TROUBLE CODES (DTCS)

- Ignition OFF.
- 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 **Restraints** 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. REFER to: Airbag Supplemental Restraint System (SRS) (501-20B) .
No	The repair is complete. RETURN the vehicle to the customer.