

Pinpoint Test - DTC: AO

B00A0:62

Normal Operation and Fault Conditions

The OCS determines if the passenger airbag needs to be deployed in the event of a crash by monitoring the pressure that is applied to the OCS bladder when weight of any occupant or object in the front passenger seat is present. When the vehicle is equipped with the front seat massage feature, the pressure that is applied to the OCS bladder can be affected by the operation of the front seat massage function. To account for this, the OCSM monitors various messages sent over HS-CAN from the SCMH indicating the percentage of inflation for each bladder.

There are a total of 4 bladders, used for the seat cushion massage function. Under normal operation, the seat cushion massage bladders deflate when the system is not in use. When the OCSM receives HS-CAN messages that indicate the seat massage function is disabled, but the bladders in the seat remain inflated beyond a certain threshold, it sets a DTC. Depending on the amount (percentage) of inflation that remains and the occupancy status of the seat, the OCSM may send a message to the RCM to indicate that a fault is present. If this occurs, the RCM sets DTC B00A0:68 and sends a message to the IPC to illuminate the airbag warning indicator.

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions

B00A0:62	Occupant Classification System: Signal Compare Failure	This DTC sets if the seat massage function is disabled (turned OFF) and the total percentage of inflation of the seat cushion massage bladders exceeds a pre-determined threshold for more than 2 minutes, regardless of seat occupancy. When this condition is satisfied, the airbag warning indicator does not illuminate. Once the DTC has been set for more than 5 ignition cycles and more than 2 minutes, and the seat is occupied by a passenger within a pre-determined weight classification, the airbag warning indicator illuminates. This DTC also sets if the seat massage function is disabled (turned OFF) and the total percentage of inflation of the seat cushion massage bladders exceeds a second, higher, pre-determined threshold while the seat is occupied by a passenger within a pre-determined weight classification. When this occurs, the airbag warning indicator illuminates.
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Possible Sources

- Damaged or kinked seat cushion massage air hoses
- Seat massage system concern
- SCMH
- OCSM

Visual Inspection and Diagnostic Pre-checks

- Inspect for damaged components or any obstructions under the front passenger seat.

PINPOINT TEST A : B00A0:62

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 VERIFY THE OCSM (OCCUPANT CLASSIFICATION SYSTEM 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 OCSM self-test.

Was DTC B00A0:62 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. GO to A2
No	This is an intermittent fault when present as a CMDTC only. GO to A4

A2 VERIFY THE SEAT CUSHION MASSAGE FUNCTION OPERATES CORRECTLY

- While sitting in the front passenger seat, activate the front passenger seat cushion massage function using the FDIM (touchscreen). Adjust the cushion massage intensity to its highest (most intense) setting.
 - Refer to the Owner's Literature for information about activating and adjusting the seat cushion massage feature.
- Observe the seat massage behavior. Verify that each of the 4 seat cushion bladders inflates and deflates.

Does each seat cushion bladder inflate and deflate as the seat cushion massage function operates?

Yes	GO to A3
No	DIAGNOSE the seat cushion massage system concern. REFER to: Front Seats (501-10A) .

A3 VERIFY THE SEAT CUSHION MASSAGE BLADDERS DEFLATE WHEN DISABLED

- Turn off the seat cushion massage feature for both the driver and front passenger seats.
- Using a diagnostic scan tool, view SCMH Parameter Identifications (PIDs).
- **NOTE:** *The following steps compare the passenger seat cushion massage bladder pressures to the driver seat cushion massage bladder pressures.*

With the front passenger seat unoccupied, view the following Parameter Identifications (PIDs) and record the data displayed by each:

- PAS_SC_BLADDR1 (Seat Cushion Bladder 1)
- PAS_SC_BLADDR2 (Seat Cushion Bladder 2)
- PAS_SC_BLADDR3 (Seat Cushion Bladder 3)
- PAS_SC_BLADDR4 (Seat Cushion Bladder 4)
- Using a diagnostic scan tool, view SCMG Parameter Identifications (PIDs).
- With the driver seat unoccupied, view the following Parameter Identifications (PIDs) and record the data displayed by each:
 - DRV_SC_BLADDR1 (Seat Cushion Bladder 1)
 - DRV_SC_BLADDR2 (Seat Cushion Bladder 2)
 - DRV_SC_BLADDR3 (Seat Cushion Bladder 3)
 - DRV_SC_BLADDR4 (Seat Cushion Bladder 4)
- Record the value displayed by each PID. Compare the values of the passenger seat cushion bladders to each other and to the values indicated by the driver seat cushion bladder Parameter Identifications (PIDs).

Do the seat cushion bladder Parameter Identifications (PIDs) all read within 0.2 psi of each other (including the driver seat cushion bladder Parameter Identifications (PIDs))?

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 OCS sensor. REFER to: Occupant Classification System (OCS) Sensor - Vehicles With: Multi-Contour Seats (501-20B) . REFER to: Occupant Classification System (OCS) Sensor - Vehicles Without: Multi-Contour Seats (501-20B) . GO to A5
No	One or more bladders are not deflating properly. DIAGNOSE the seat cushion massage system concern. REFER to: Front Seats (501-10A) .

A4 CHECK FOR AN INTERMITTENT FAULT

- Ignition OFF.
- Inspect for obstructions under the front passenger seat. Remove any obstructions or foreign objects that might come in contact with the seat.
- Inspect for damaged components under the front passenger seat. Repair any damage found.
- Ignition ON.
- Using a diagnostic scan tool, perform OCSM self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was DTC B00A0:62 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. GO to A2
No	Do not install any new SRS components at this time. Only install SRS components when directed to do so in the pinpoint test. GO to A5

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

- Ignition ON (if previously turned OFF).
- Clear all OCSM Diagnostic Trouble Codes (DTCs).
- Clear all RCM Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Ignition ON.
- While sitting in the front passenger seat, activate the front passenger seat cushion massage function using the FDIM (touchscreen).
 - Refer to the Owner's Literature for information about activating and adjusting the seat cushion massage feature.
- Verify that the front passenger seat cushion massage operates correctly. Turn off the seat cushion massage and wait 2 minutes.
- Cycle the ignition from ON to OFF and back to ON. After turning the ignition on, allow at least 30 seconds for the OCSM to perform a system self-check. Repeat this step 5 more times.
- **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.