
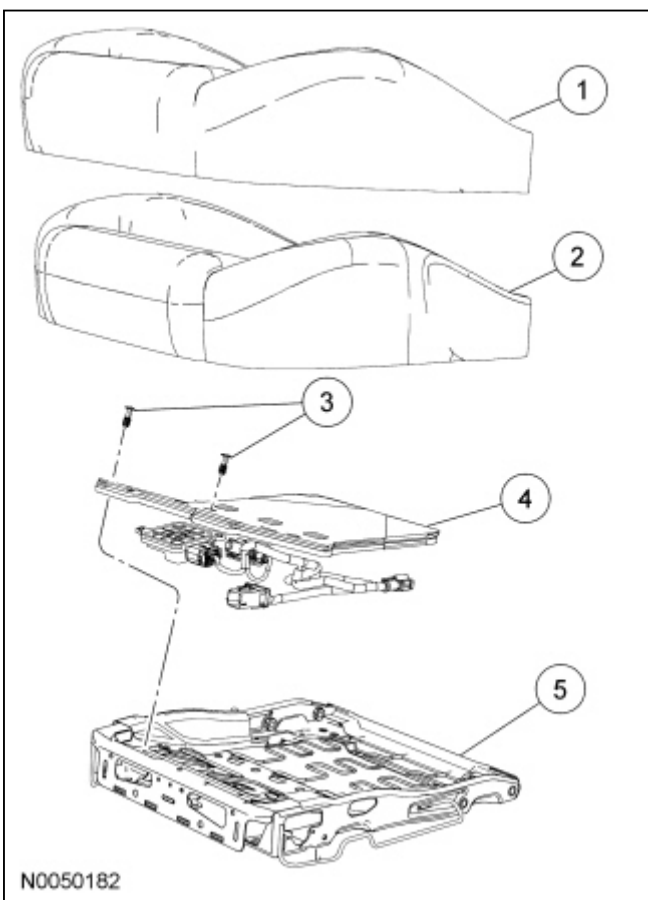


## Occupant Classification Sensor

### Special Tool(s)

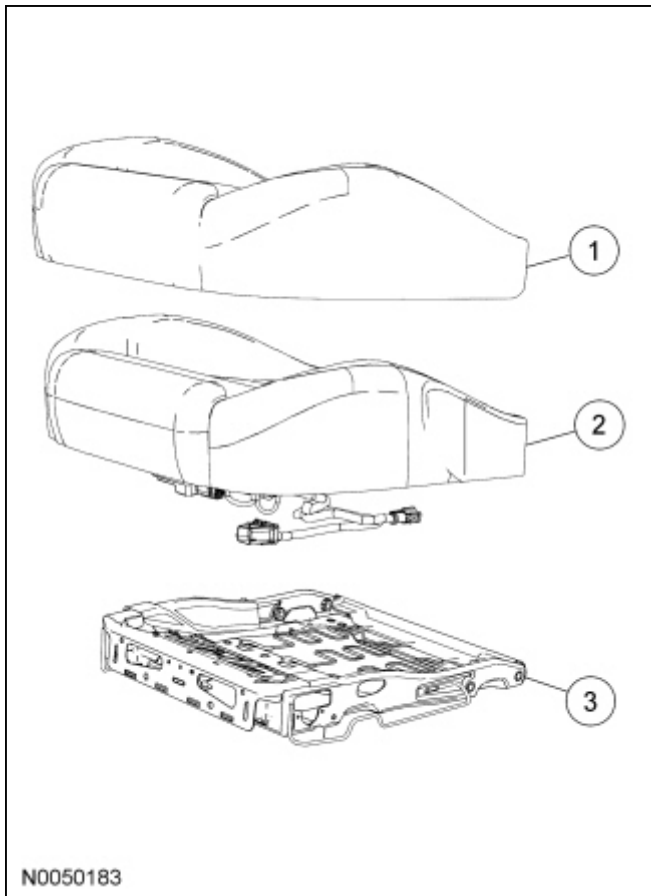
 <p>ST2834-A</p>	<p>Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool</p>
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### Seat with OEM Occupant Classification Sensor (OCS) System



Item	Part Number	Description
1	62900	Seat cushion trim cover
2	—	Seat cushion foam pad
3	—	Pin-type retainers
4	—	Occupant Classification Sensor (OCS) system (bladder, hose with pressure sensor, Occupant Classification System Module (OCSM) and wiring harness)
5	63100	Seat cushion frame assembly

### Seat with a **OCS** System Service Kit



N0050183

Item	Part Number	Description
1	62900	Seat cushion trim cover
2	632A22	OCS system service kit (seat cushion foam pad, bladder, hose with pressure sensor, OCSM and wiring harness)
3	63100	Seat cushion frame assembly

## Removal



**WARNING:** Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

**NOTICE:** To prevent system failure, it is necessary to carry out the Occupant Classification Sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

**NOTE:** The heater mat on the front passenger seat cushion is not serviceable separately. If a new heater mat is needed on the front passenger seat cushion, a new Occupant Classification Sensor (OCS) system service kit equipped with a heater mat must be installed.

**NOTE:** OCS system components (seat cushion foam pad, bladder with pressure sensor and Occupant Classification System Module (OCSM) are calibrated to each other and are serviced as an assembly. The OCS system components are not to be installed separately. If a new OCS system, OCS system component or seat cushion foam pad are needed, a new OCS system service kit (seat cushion foam pad, bladder with pressure sensor, OCSM and seat wiring harness) must be installed as an assembly.

**NOTE:** To identify between a production OCS system and a OCS system service kit inspect the OCSM electrical connector. A production OCS system allows the disconnect of the OCSM electrical connector. A OCS system service kit has the OCSM electrical connector glued to the module. It cannot and should not be disconnected or altered.

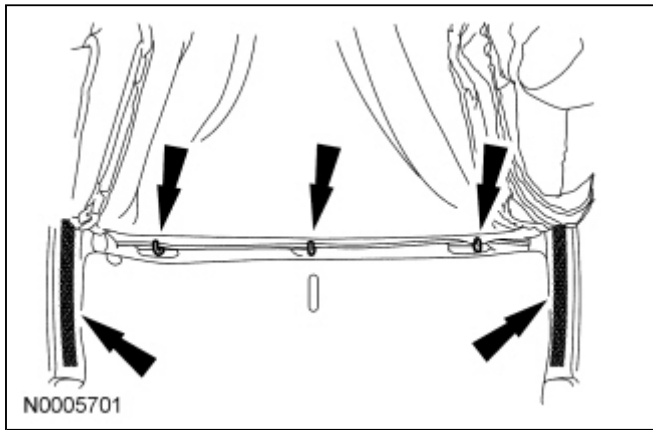
**NOTE:** The air bag warning indicator illuminates when the correct [RCM](#) fuse is removed and the ignition is ON.

**NOTE:** The Supplemental Restraint System (SRS) must be fully operational and free of faults before releasing the vehicle to the customer.

### All seats

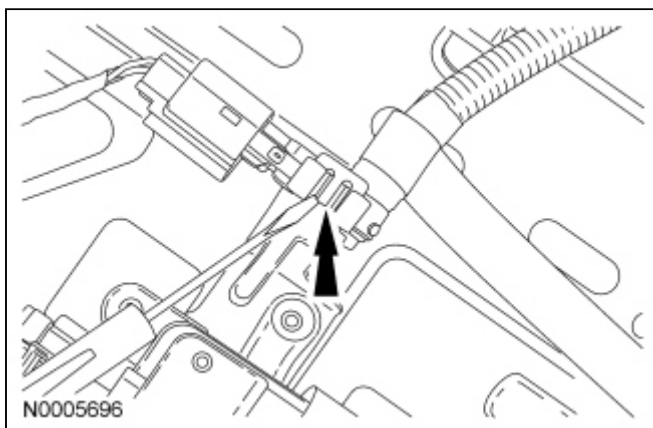
1. Remove the passenger seat. For additional information, refer to [Section 501-10](#).
2. Remove the seat backrest. For additional information, refer to [Section 501-10](#).
3. Remove the seat track. For additional information, refer to [Section 501-10](#).
4. Release all the seat cushion trim cover J-clips and the pin-type retainer from the seat cushion frame assembly.
5. **NOTICE:** Use care when separating the seat cushion trim cover from the hook-and-loop strip, or the hook-and-loop strip can be torn from the seat cushion foam pad.

Remove the hog rings and cushion trim cover from the foam pad.



6. **NOTE:** OEM [OCS](#) pressure sensor shown, [OCS](#) system service kit pressure sensor similar.

Bend to release the retaining tab and remove the pressure sensor from the bracket.



### Seats with power

7. Disconnect the seat control switch electrical connector from the cushion side shield.

### All seats

8. **NOTE:** Note position of wire harness routing for installation.

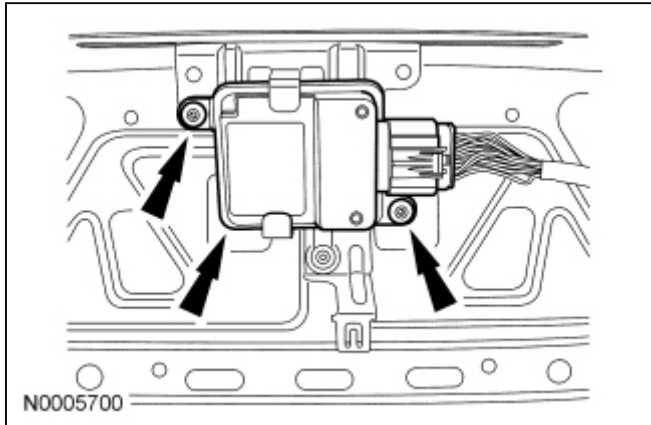
Release all the seat wire harness routing clips and electrical connector retainers from the seat cushion frame.

### Seats with an OEM Occupant Classification Sensor (OCS)

9. Release the 2 [OCS](#) system bladder pin-type retainers and separate it from the seat cushion frame.

### All seats

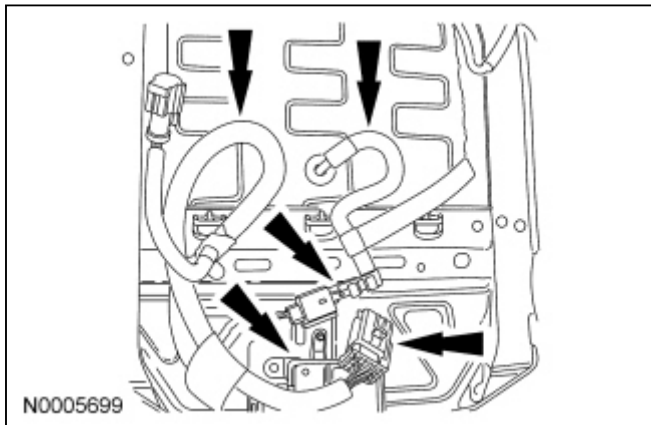
10. Remove the rivets and separate the [OCSM](#) from the seat cushion frame bracket.



11. **NOTE:** Note position of hose routing for installation.


Remove the [OCS](#) system from the seat cushion frame assembly.

- Feed the hose, pressure sensor, wire harness, electrical connector and [OCSM](#) through the opening in the seat cushion frame.



### Installation

### All seats

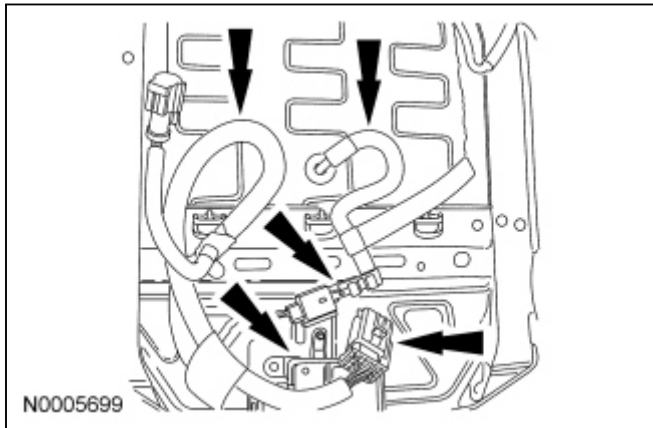
1.  **WARNING:** Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

**NOTICE:** Failure to route the seat Occupant Classification Sensor (OCS) system components through the correct seat cushion support opening may cause component failure.

**NOTICE:** While positioning the seat cushion frame and Occupant Classification Sensor (OCS) system assembly, be careful not to damage any of the components. Failure to do so may result in component failure.

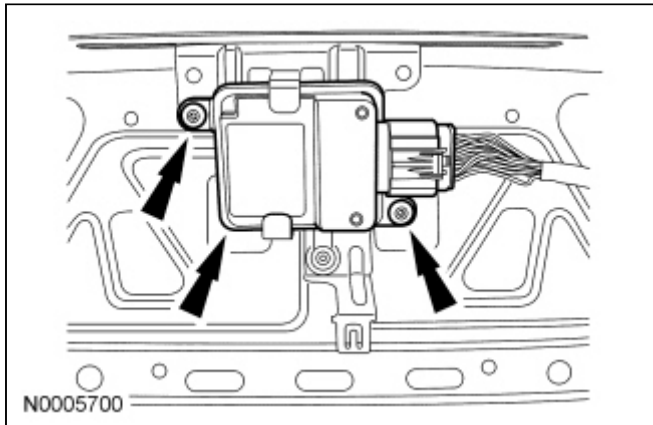
Position the **OCS** system components to the seat cushion frame as noted during removal.

- Feed the hose, pressure sensor, wire harness, electrical connector and the **OCSM** through the seat cushion frame.

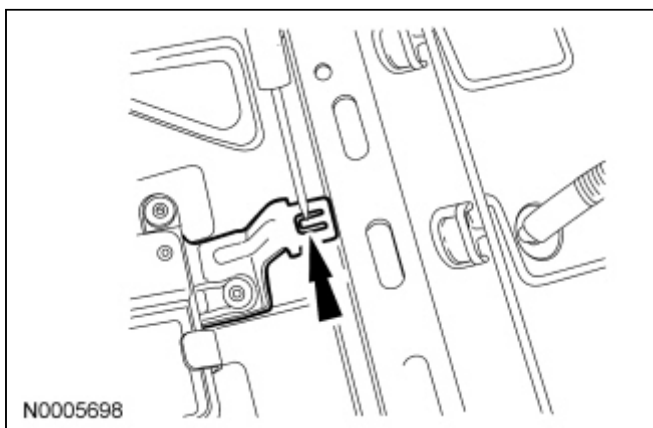


2. **NOTE:** Make sure the **OCSM** is correctly secured to the bracket.

Position the **OCSM** onto the seat cushion frame bracket and install new rivets.



3. Bend the retaining tab back on the pressure sensor bracket.



#### Seats with an **OCS** system service kit

4. Position the **OCS** service kit foam pad and attach the 2 pin-type retainers to the seat cushion frame assembly.

#### Seats with a production **OCS** system

5. Attach the 2 **OCS** system bladder pin-type retainers to the seat cushion frame assembly.

### All seats

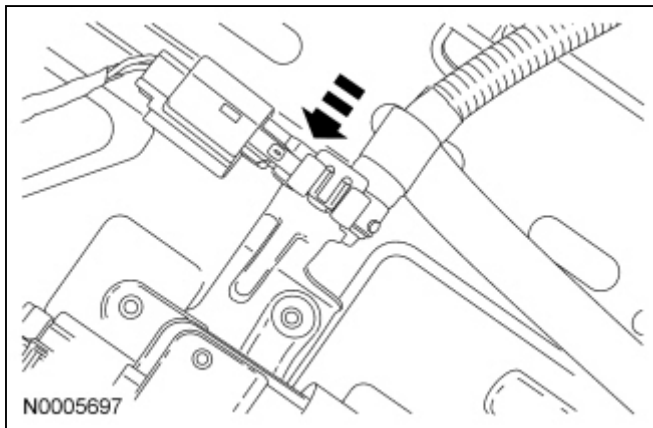
6. Attach all the seat wire harness routing clips and electrical connector retainers to the cushion frame.

### Seats with power

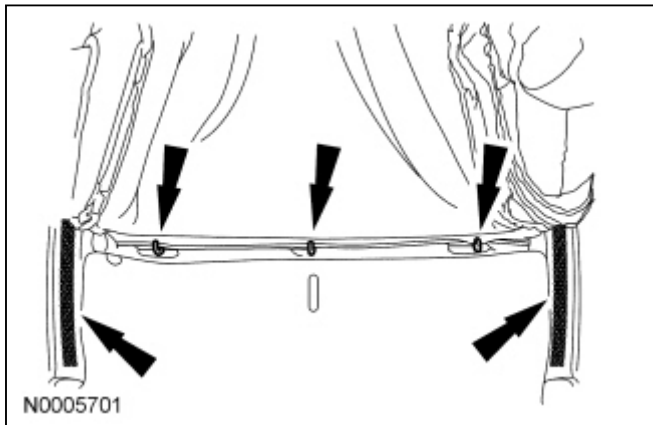
7. Connect the seat control switch electrical connector to the cushion side shield.


### All seats

8. Install the pressure sensor onto the seat cushion frame bracket, making sure the retaining tab is completely engaged.
  - When installed correctly, an audible click will be heard and the pressure sensor will not be able to be removed from its bracket without disengaging the retaining tab.



9. Install the seat cushion trim cover and hog rings to the seat cushion foam pad.



10. Fasten the seat cushion trim cover J-clips, hook-and-loop strips and pin-type retainer to the seat cushion frame.
11. Install the seat track. For additional information, refer to [Section 501-10](#).
12. Install the seat backrest. For additional information, refer to [Section 501-10](#).
13. Install the passenger seat. For additional information, refer to [Section 501-10](#).
14. Repower the **SRS**. **Do not** prove out the **SRS** at this time. For additional information, refer to [Supplemental Restraint System \(SRS\) Depowering and Repowering](#) in the General Procedures portion of this section.
15.  **WARNING: Make sure the front passenger seat repair is complete, the seat and all attached components (head restraint, seat side shield, etc.) are correctly assembled, and the seat is**

correctly installed to the vehicle before carrying out the System Reset. Failure to follow these instructions may result in incorrect operation of the occupant classification sensor (OCS) system and increases the risk of serious personal injury or death in a crash.

**NOTICE:** To prevent system failure, the following precautions must be taken before carrying out the Occupant Classification Sensor (OCS) system reset:

- Make sure the voltage to the Occupant Classification System Module (OCSM) is above 8.0 volts and less than 18.0 volts.
- Make sure the OCS system is not at a temperature below 6°C (42°F) or above 36°C (97°F) when initiating the OCS reset process. If the vehicle has been exposed to extreme cold or hot temperatures, the vehicle must be exposed and kept at a temperature within the limits, 6°C to 36°C (42°F to 97°F) for a minimum of 30 minutes.
- Make sure nothing is present on the passenger seat before carrying out the OCS system reset and nothing is placed on the seat during the process.
- Make sure a minimum 8-second time period has passed after cycling the ignition switch ON before carrying out the OCS system reset process.

Carry out the OCS system reset. If the system reset was successful, proceed to step 19, otherwise proceed to step 16.

16. If the first system reset attempt was unsuccessful, carry out a thorough visual inspection of the following:
  - OCS system wiring
  - Check the pressure sensor hose for kinks and/or damage
  - Related seat wiring harness, body wiring harness terminals and connectors
17. If the damage is found, repair and/or install new components as necessary.
18. Carry out a second OCS system reset. If the second attempt is unsuccessful, install a new OCS system service kit.
19. **NOTE:** The ignition switch must be cycled after the OCS system reset.

Prove out the SRS as follows:

Turn the ignition key from ON to OFF. Wait 10 seconds, then turn the ignition switch back to ON and visually monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:

- fail to light.
- remain lit continuously.
- flash at a 5Hz rate ( RCM not configured).

The air bag warning indicator might not light until approximately 30 seconds after the ignition switch has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the RCM. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired.

Clear all continuous DTCs from the RCM using a scan tool.

20. **NOTE:** A prepaid return postcard is provided with a new OCS system service kit. The serial number for the new part and the Vehicle Identification Number (VIN) must be recorded and sent to Ford Motor Company.

If a new OCS system service kit was installed, fill out the necessary information on the OCS system traceability card and return it along with the complete inoperative OCS system to Ford Motor Company.

- When returning the inoperative OCS system include: seat cushion foam pad, bladder, OCSM, pressure sensor (transducer), hose, electrical connectors and wire harness (service part OCS only).
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