
		Tesla, Inc. Service Bulletin		Replace Occupant Classification System (OCS) of Front Passenger Seat while Servicing Subcomponents			
SB-23-20-002 June 16, 2023		R5					
Classification		Section/Group		Mobile Service		Configuration	
Repair Bulletin		20 - Safety and Restraint		Can Perform (where permitted)		All	
Model Year		Model		Country/Region		Build Location	
2017 - 2023		Model 3, Model Y		North America, Asia Pacific		Fremont, Giga Austin	
The model(s) and model year(s) listed are a general approximation of the affected VIN list. Refer to the VIN/Bulletin Tracker or Customer/Vehicle profile to determine applicability of this bulletin for a particular vehicle.							

Repair Bulletin: This repair bulletin provides instructions on addressing a possible customer concern regarding the operation of Tesla vehicles. These instructions should only be performed by trained professionals.

This Service Document supersedes SB-23-20-002 R4, dated 8-Jun-23. This new revision, R5, adds front passenger seat OCS filter module and self-capacitance electrical harness direction. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

Condition

Certain Model 3 and Model Y vehicles may need a different Occupant Classification System (OCS) installed in the front passenger seat before servicing its subcomponents.

 **NOTE:** The performance of currently-installed OCS in the front passenger seat is not affected. This procedure is required before service can be performed to the subcomponents of the front passenger seat.

Correction

Replace the front passenger seat OCS component in order to service seat subcomponents.

Correction Description	Correction	Time
Retrofit SBR in OCS Equipped Front Passenger Seat	S012320002	1.08

	Part Number	Description	Quantity
Parts Required	1130363-00-B	1R, SBR, BOX, CLIP, M3	1
	1099592-00-F	1R, SBR, M3	1
	1489060-93-F	ASY,HARN,1R SEAT,RH,PREM,OCS,STPS	1
	1458818-00-B	BOLT,PF,M10-1.5x36,[109],G0310[B],SMAT	4
If Necessary	Model 3 Only		
	1098408-00-B	CLIP, 90666-SDA-A010-M1	3
	Model Y Only		
	1496105-00-B	EDGE CLIP,6MM,1.5-2.5GRP,POM,WH	7
These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Catalog .			
Special Tools	1133787-00-A	KEY, SEAT BELT RELEASE, MODEL 3	
	1132841-00-A	M3 1R HEADREST REMOVAL TOOL	
If Necessary	Model 3 Only		
	1108272-00-B	CAP, LOGIC CONN, INV, 3DU	
Shop Supplies			
If Necessary	Felt tape		

Procedure

⚠ WARNING: Supplementary Restraint System (SRS) components can be hazardous if not handled properly (refer to Airbag and Supplementary Restraint System (SRS) Precautions; [Model 3](#), [Model Y](#)).

1. [Steps to determine front passenger airbag type]:

- If the vehicle is equipped with a full suppression front passenger airbag (part number 1077823-00-F or earlier), perform [SB-23-20-001](#), “Update Front Passenger Airbag to Maintain Compatibility While Servicing Front Passenger Seat”, and then continue this procedure.
- If the vehicle is equipped with a safety vent front passenger airbag (part number 1077823-00-G or later), perform this procedure only.

Front Passenger Airbag Type	Sandwich OCS	SBR OCS
Full Suppression	Compatible	Not Compatible
Safety Vent	Compatible	Compatible

2. On the vehicle touchscreen, touch **Controls** (vehicle icon) > **Software**, and then scroll down to display the vehicle firmware version.

- If the vehicle is operating with firmware version 2023.2.11 or later, or 2022.45.12 (FSD Beta), continue this procedure.
- If the vehicle is operating with a firmware version earlier than 2023.2.11 or 2022.45.12 (FSD Beta), update to version 2023.2.11 or later, or 2022.45.12 (FSD Beta) (refer to Service Manual procedure 00020003; [Model 3](#), [Model Y](#)), and then continue this procedure.

3. Remove the passenger seat cushion foam (refer to Service Manual procedure 13070102; [Model 3](#), [Model Y](#)).

4. Disconnect the front passenger seat OCS sandwich sensor connector (Figure 1).

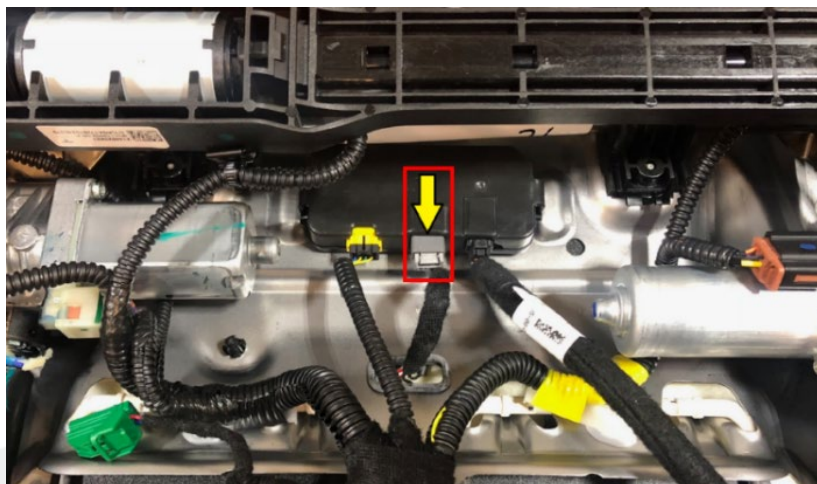


Figure 1

5. Remove the push clips (x2) that attach the front passenger seat OCS sandwich sensor to the seat frame (Figure 2).



Figure 2

6. Remove and discard the front passenger seat OCS sandwich sensor from the seat frame (Figures 3 and 4).



Figure 3



Figure 4

7. Replace the passenger seat harness with revised part number 1489060-93-F or later (refer to Service Manual procedure 17101802; [Model 3](#), [Model Y](#)). While installing the new seat harness:

- If a ferrite is installed on the old self-capacitance electrical harness (Figure 5):

NOTE: Disregard the following steps if a ferrite is not installed and proceed to the next step.

- Remove the felt tape that attaches the ferrite to the self-capacitance electrical harness, and then remove the ferrite from the harness and set aside for reinstallation.
- Once the replacement passenger seat harness is fully installed, position the new self-capacitance electrical harness into one half of the ferrite, and then clamp the other half of the ferrite closed (Figure 6).
- Completely wrap the ferrite and self-capacitance electrical harness together with felt tape to prevent NVH issues.

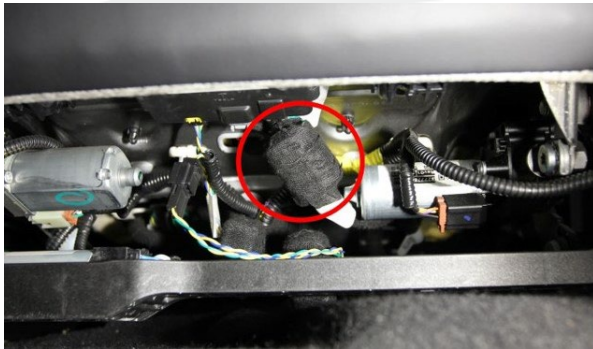


Figure 5 – Self-capacitance electrical harness with ferrite fully installed

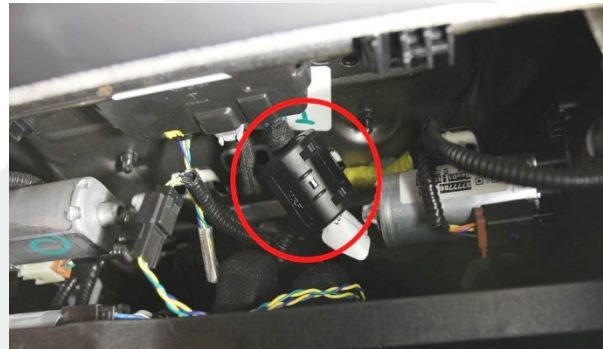


Figure 6

- If a passenger seat OCS filter module is installed on the seat (Figure 7), do not remove the OCS filter module from the seat. Connect the new seat harness connector to the OCS filter module (Figure 8).

NOTE: Disregard this step if an OCS filter module is not installed and proceed to the next step.

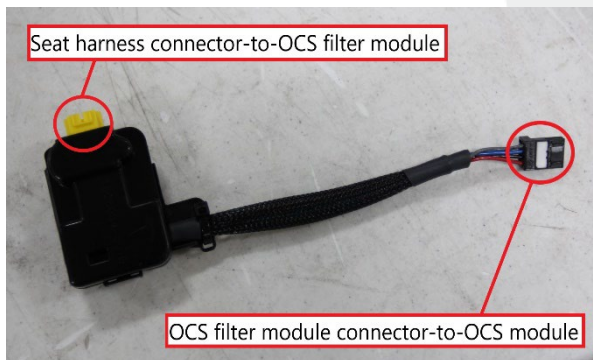


Figure 7 – OCS filter module

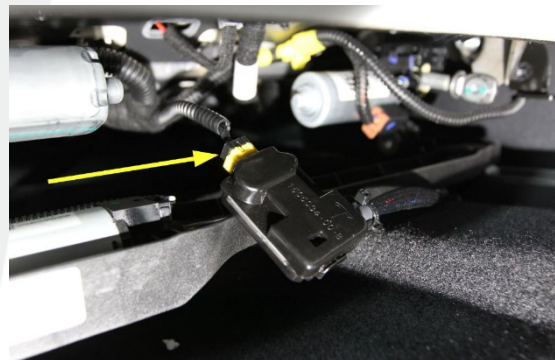


Figure 8 – OCS filter module (shown partially removed for connector clarity purposes)

- Check the passenger seat module female connector (yellow port) to see if it was dislodged or misaligned during the removal of the old seat harness (Figure 9). If the connector was dislodged or misaligned, press firmly against the connector until it seats back into place.

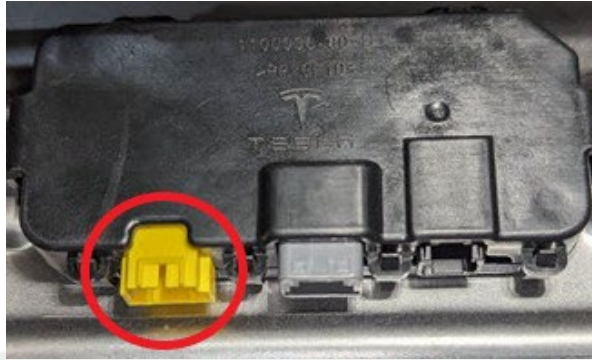


Figure 9

8. Install the front passenger seat cushion foam (refer to Service Manual procedure 13070102; [Model 3](#), [Model Y](#)). While installing the foam:

- Install a new RH front seat resistive occupancy sensor (part number 1099592-00-F or later), and then route the sensor connector through the foam (Figure 10).



Figure 10

- Install a new RH front seat resistive occupancy sensor box clip (part number 1130363-00-B or later) (Figure 11).



Figure 11

9. Locally connect to the vehicle using Toolbox 3.0.

10. Click the **Actions** tab, search for “OCS”, and then select **OCS1P delete Sandwich and calibrate routine** (Figure 12).

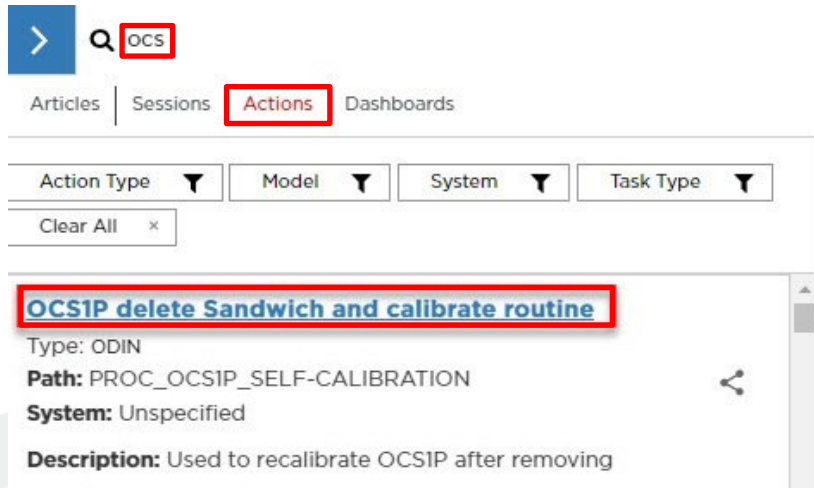


Figure 12

11. Click **Run** and allow the routine to complete. Select **X** at the top right of the window to exit once the routine is complete (Figure 13).



Figure 13

12. Click the **Actions** tab, search for “Seat calibration”, and then select **Right Seat Calibration** (Figure 14).

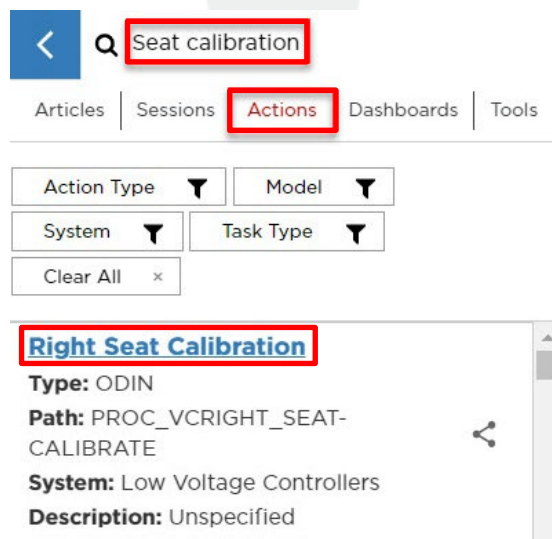


Figure 14

13. Click **Run** and allow the routine to complete. Select **X** at the top right of the window to exit once the routine is complete and "Pass" is displayed (Figure 15).



Figure 15

14. Disconnect the laptop from the vehicle.

