



**Tesla, Inc.**  
Service Bulletin

# Disable Rear Door Cladding Sensors

**SB-21-12-005**

December 5, 2024

**R1**

Classification		Section/Group	Mobile Service
Repair Bulletin		12 - Exterior Fittings	Can Perform (where permitted)
Model Year	Model	Country/Region	Version
2015 - 2018	Model X	All	All

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 noted condition or possible customer concern regarding the operation of Tesla vehicles. These instructions should only be performed by trained professionals.

*This Service Document supersedes SB-21-12-005, dated October 22, 2021. This new revision, R1, deletes an incorrect Note on the function of the cladding sensors after a specific firmware update. Discard the previous version and replace it with this one.*

## Condition

For some Model X vehicles built before May 2018, should water seep into the printed circuit board of the rear door cladding sensor, an alert might be displayed on the touchscreen.

## Correction

Upon customer complaints of door, roof, or capacitive alerts displayed on the touchscreen, inspect the vehicle for symptoms related to the condition. If symptoms are present, depending upon the condition of the rear door cladding sensors, either disable the sensor or replace the sensor with a cosmetic-only cladding.

Correction Description	Correction	Time
Disable Both Cladding Sensors	S012112005	0.80
Disable One Cladding Sensor And Install One Cosmetic-Only Cladding	S022112005	0.80
Install Two Cosmetic-Only Claddings	S032112005	0.80

	Part Number	Description	Quantity
<b>Parts Required</b>	1043439-00-A	NVH BUTYL FOIL	2
<b>If Necessary</b>	1035203-00-E	DOOR CLADDING ASSY - RR, LH	1
	1035204-00-E	DOOR CLADDING ASSY - RR, RH	1
	1025401-00-A	CLIP, HEART FLEX W WSHR 70 LBS RETENTION	As needed

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the [Parts Catalog](#).

<b>Special Tools</b>	1031099-00-A	Permatex 33964 Right Stuff Gasket Maker/Sealant
	1076300-00-A	Adhesive Promoter

**Shop Supplies** IPA Wipes

## Procedure

1. Check the vehicle for any of the below alerts being present or stored:
  - If none of the alerts are displayed, then the issue is not resolved by this bulletin. Cancel this bulletin activity so that it remains available for a possible future application, and discontinue this procedure.
  - If any of the alerts are displayed, continue to the next step.

BCFALCD\_w121\_DoorUSSMIA  
BCFALCD\_w122\_RoofUSSMIA  
BCFALCD\_w123\_capacitiveMIA  
BCFALCP\_w121\_DoorUSSMIA  
BCFALCP\_w123\_capacitiveMIA

2. Open both rear doors.
3. Release the V-clips (x10) that attach the LH rear lower door garnish to the LH rear door (Figure 1), and then remove the garnish from the vehicle.

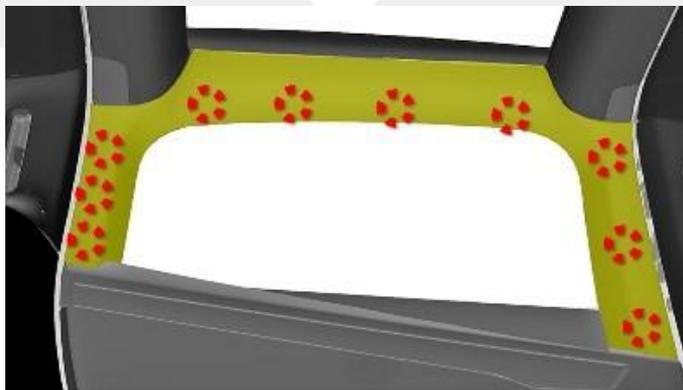


Figure 1

4. Remove the LH rear door trim panel. Refer to Service Manual procedure [15132001](#).
5. Remove the LH rear door speaker. Refer to Service Manual procedure [21211002](#).
6. Use the B-pillar rear door switch to move the LH rear door to a position such that you can see the cladding sensor connector inside the door (Figure 2).

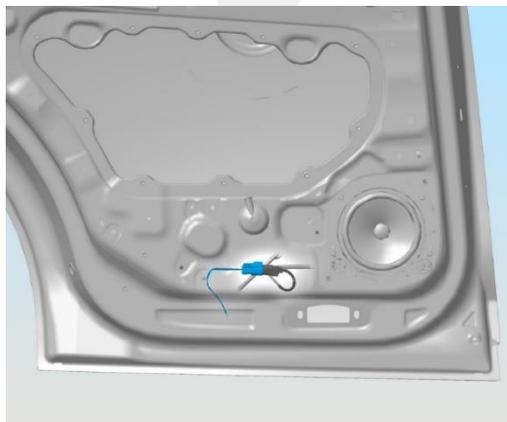


Figure 2

7. Disconnect the LH rear door electrical harness from the cladding sensor connector (Figure 3).



**Figure 3**

8. Remove the lower butyl patch on the inner side of the LH rear door (Figure 4).



**Figure 4**

9. Guide the LH rear door electrical harness cladding sensor connector through the opening for better access (Figure 5).



**Figure 5**

10. Repeat steps 3 through 9 for the RH rear door.
11. Prepare the Right Stuff sealant.

12. Fill the LH and RH rear door electrical harness cladding sensor connectors fully with Right Stuff sealant (Figure 6).

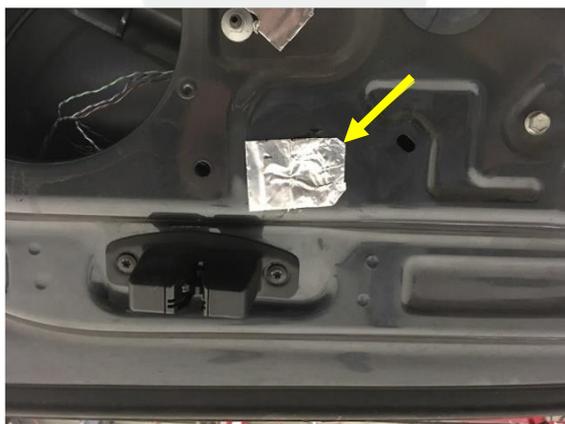
**⚠ CAUTION:** Make sure to apply the sealant only to the connector.



**Figure 6 – LH rear door shown, RH rear door similar**

13. Use IPA wipes to remove any excess sealant from the LH rear door, the surrounding area, and the electrical harness cladding sensor connector, and then guide the connector back through the opening.

14. Install the lower butyl patch onto the inner side of the LH rear door (Figure 7).



**Figure 7**

15. Repeat steps 13 and 14 for the RH rear door.

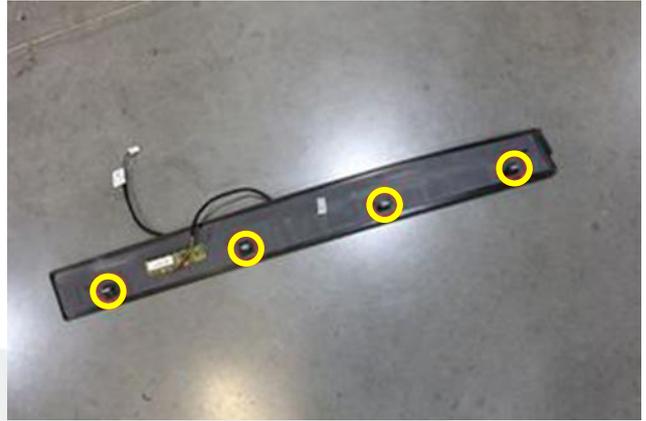
16. Inspect the condition of the LH rear door cladding.

- If the cladding is in good condition, disable the cladding sensor. Skip to step 27.
- If the cladding is discolored, cracked, or damaged, replace the cladding sensor with a cosmetic-only cladding. Continue to the next step.

17. Release the clips (x4) that attach the LH rear door cladding sensor to the LH rear door, and then remove the cladding sensor from the door (Figures 8 and 9).



**Figure 8**



**Figure 9**

18. Remove and discard the butyl patch from the outside of the LH rear door (Figure 10).



**Figure 10**

19. Release the lower clip that attaches the LH rear wheel arch door cladding to the door (Figure 11).



**Figure 11**

20. Use an IPA wipe to clean the backside of the LH rear wheel arch door cladding where double sided tape is applied (Figure 12).



**Figure 12**

21. Use an IPA wipe to clean off the LH rear door cladding mounting surface (Figure 13).



**Figure 13**

22. Install a new butyl patch onto the outside of the LH rear door (Figure 14).



**Figure 14**

23. If the new LH rear door cladding has a connector pigtail, use diagonal cutters to cut the pigtail as close as possible to the cladding.

24. Peel the backing from the foam tape, install the new LH rear door cladding to the LH rear door, and then fasten the clips (x4) that attach the cladding to the door (Figure 15).



**Figure 15**

25. Install the LH rear wheel arch door cladding to the LH rear door cladding, and then fasten the lower clip that attaches the wheel arch door cladding to the door (Figure 16).



**Figure 16**

26. Skip to step 33.

 **NOTE:** Steps 27 through 32 are performed to disable a cladding sensor in good condition.

27. Release 3 clips to partially remove the LH rear door cladding sensor (Figure 17).



**Figure 17**

28. Use diagonal cutters to cut the LH rear door cladding sensor pigtail as close as possible to the sensor (Figure 18), and then pull the pigtail out of the door.



**Figure 18**

29. Remove and discard the butyl patch from the outside of the LH rear door (Figure 19).



**Figure 19**

30. Use an IPA wipe to clean off the LH rear door cladding mounting surface (Figure 20).



**Figure 20**

31. Install a new butyl patch onto the outside of the LH rear door (Figure 21).



**Figure 21**

32. Use Adhesive Promoter to activate the double sided tape, and then fasten the clips (x3) that attach the LH rear door cladding to the LH rear door (Figure 22).

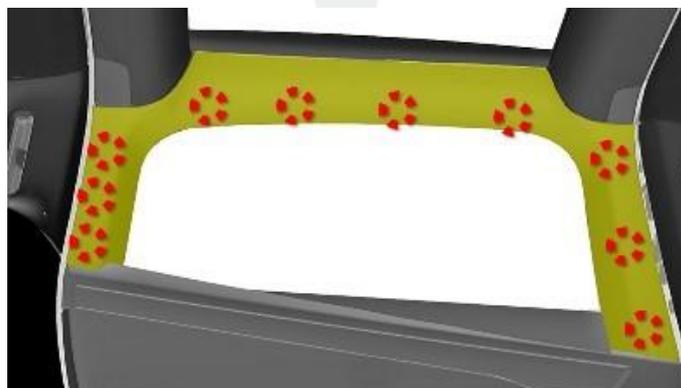


**Figure 22**

33. Install the LH rear door speaker. Refer to Service Manual procedure [21211002](#).

34. Install the LH rear door trim panel. Refer to Service Manual procedure [15132001](#).

35. Install the LH rear lower door garnish to the LH rear door, and then fasten the V-clips (x10) that attach the garnish to the door (Figure 23).



**Figure 23**

36. Verify the correct operation of the LH rear window.

37. Close the LH rear door.
38. Repeat steps 16 through 37 for the RH rear door.
39. Connect a laptop with Toolbox 3 to the vehicle.
40. In Toolbox, click the **Dashboards** tab, click **Infotainment Dashboard**, click the **Vehicle Configuration** tab, and then click **Read Config** to display the current vehicle configuration (Figure 24).

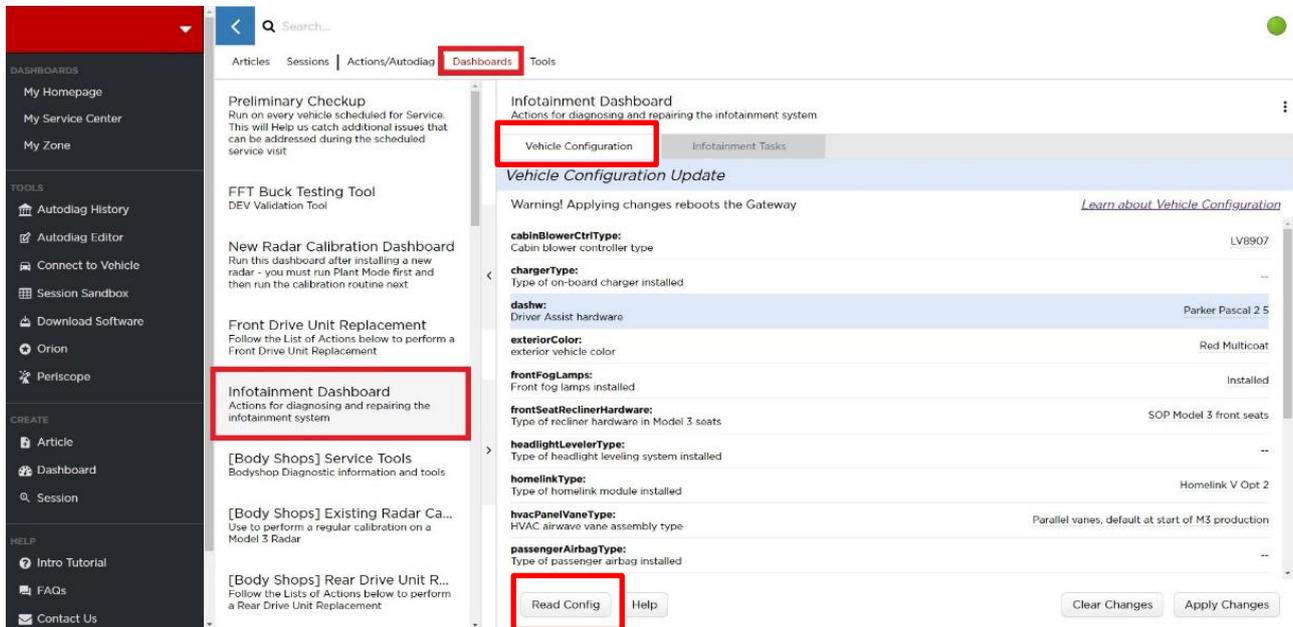


Figure 24

41. Scroll through the list to find “falcon\_cap\_sensor”, click on the drop down menu to the right of the text, and select **Cap Sensor Not Installed** (Figure 25).

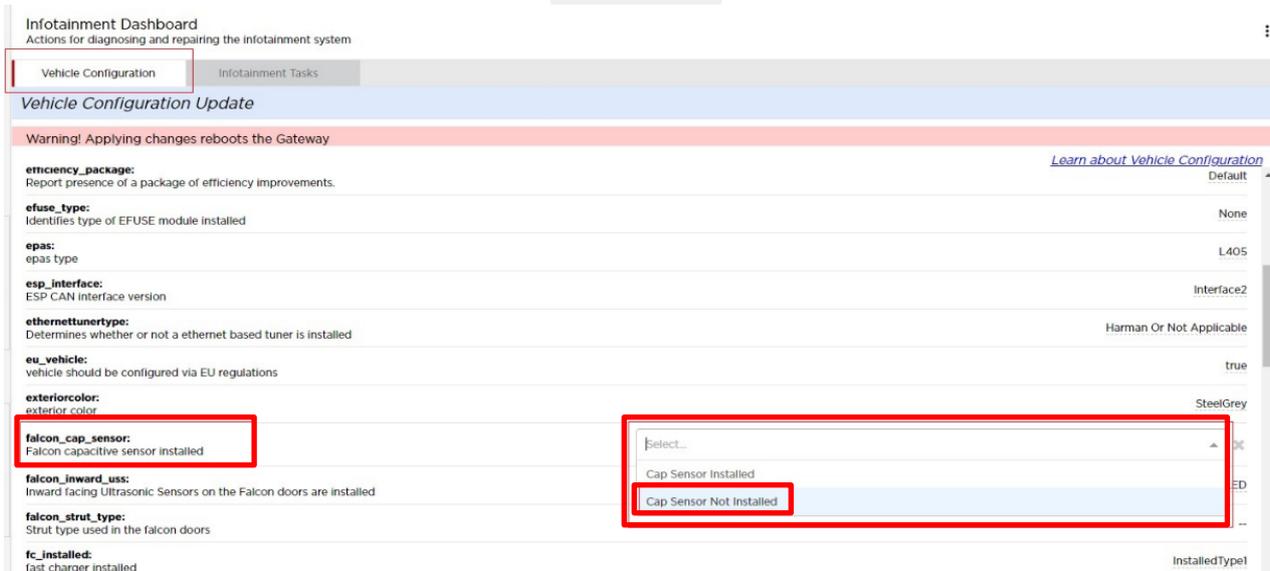


Figure 25

42. Click **Apply Changes**, click **Run**, and allow the routine to complete.
43. Disconnect the laptop from the vehicle.
44. Make sure that the customer facing alerts are no longer present.