Tesla, Inc. Service Bulletin		c. ^{tin} Disable Rear Do	Disable Rear Door Cladding Sensors		
SB-21-12-005			-		
October 22, 2021					
Classification		Section/Group	Mobile Service		
Repair Bulletin		12 - Exterior Fittings	Can Perform (where permitted)		
Model Yea	ar Model	Country/Region	Version		
2015 - 2018	8 Model X	All	All		
The model(s) and applicability of th	d model year(s) listed a is bulletin for a particula	a general approximation of the affected VIN list. Re vehicle.	fer to the VIN/Bulletin Tracker or Customer/Vehicle profile to determine		

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.

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.

NOTE: For vehicles equipped with rear door cladding sensors, the sensors are no longer used after firmware version 2018.14.

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
Parts Required	1043439-00-A	NVH BUTYL FOIL	2
If Necessary	1035203-00-E 1035204-00-E 1025401-00-A	DOOR CLADDING ASSY - RR, LH DOOR CLADDING ASSY - RR, RH CLIP, HEART FLEX W WSHR 70 LBS RETENTION	1 1 As needed
	These part numbers were otherwise specified in the	e current at the time of publication. Use the revisions listed or later, unl e <u>Parts Catalog</u> .	ess
Special Tools	1031099-00-A 1076300-00-A	Permatex 33964 Right Stuff Gasket Maker/Sealant 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 <u>not</u> 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.





- 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 <u>21211002</u>.
- 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).





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).





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 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).





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.

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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).







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).





- 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).





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).

-	C Q Search		•
DASHBOARDS	Articles Sessions Actions/Autodiag Dashl	tools	
My Homepage My Service Center	Preliminary Checkup Run on every vehicle scheduled for Service.	Infotainment Dashboard Actions for diagnosing and repairing the infotainment system	1
My Zone	can be addressed during the scheduled service visit	Vehicle Configuration Infotainment Tasks	
TOOLS	FFT Buck Testing Tool	Vehicle Configuration Update Warning Applying changes reports the Gateway	Learn about Vehicle Configuration
m Autodiag History 図 Autodiag Editor	New Dadas Calibratian Dashbased	cabinBlowerCtrType:	
Connect to Vehicle	Rew Radar Calibration Dashboard Run this dashboard after installing a new radar - you must run Plant Mode first and then run the calibration routing next	Cabin blower controller type chargertype: Type of on-board charger installed	
Session Sandbox Download Software	Front Drive Unit Penlacement	dashw: Driver Assist hardware	Parker Pascal 2 5
 Orion 	Follow the List of Actions below to perform a Front Drive Unit Replacement	exteriorColor: exterior vehicle color	Red Multicoat
🖹 Periscope	Infotainment Dashboard	frontFogLamps: Front fog lamps installed	Installed
CREATE	Actions for diagnosing and repairing the infotainment system	frontSeatReclinerHardware: Type of recliner hardware in Model 3 seats	SOP Model 3 front seats
 Arucie Dashboard 	[Body Shops] Service Tools Bodyshop Diagnostic information and tools	headlightLevelerType: Type of headlight leveling system installed hemelinkType:	
Q. Session	[Body Shops] Existing Radar Ca	Type of homelink module installed hvacPanelVaneType:	Homelink V Opt 2
	Use to perform a regular calibration on a Model 3 Radar	HVAC airwave vane assembly type passengerAirbagType:	Parallel valles, default at start of Pis production
 Intro Tutorial FAQs 	[Body Shops] Rear Drive Unit R Follow the Lists of Actions below to perform	Type or passenger airbag installed	
🖂 Contact Us	a Rear Drive Unit Replacement	Read Config Help	Clear Changes Apply Changes



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).

Infotainment Dashboard Actions for diagnosing and repairing the infotainment system	
Vehicle Configuration Infotainment Tasks	
ehicle Configuration Update	
Varning! Applying changes reboots the Gateway	
therency_package: teport presence of a package of efficiency improvements.	<u>Learn about Vehicle Configu</u> Def
fuse_type: dentifies type of EFUSE module installed	N
pas: pas type	L
sp_interface: ISP CAN interface version	intería
thernettunertype: Determines whether or not a ethernet based tuner is installed	Harman Or Not Applica
u_vehicle: vehicle should be configured via EU regulations	,
exterior color	Steel
alcon_cap_sensor: alcon capacitive sensor installed	Select
alcon_inward_uss: Inward facing Ultrasonic Sensors on the Falcon doors are installed	Cap Sensor Installed
alcon_strut_type: strut type used in the falcon doors	Cap Sensor Not Installed
c_installed:	InstalledTy

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.

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For feedback on the accuracy of this document, email ServiceBulletinFeedback@tesla.com