

		Tesla, Inc. Service Bulletin		<i>Install Ferrite Cores onto Ancillary Bay Harness</i>	
SB-23-16-008 December 16, 2023					
Classification		Section/Group		Mobile Service	Configuration
Repair Bulletin		16 - HV Battery System		Cannot Perform	LHD Structural Pack
Model Year	Model	Country/Region		Build Location	
2023	Model Y	Europe		Giga Berlin	
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.					

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.

Condition

Some Model Y vehicles built at Giga Berlin are equipped with a LV harness in the ancillary bay with suboptimal placement of ferrite cores, which may cause electromagnetic interference that triggers a recoverable graceful-power-off event.

Correction

Inspect the ancillary bay LV harness part number. For revision -E, remove two ferrites from the harness and install two ferrites in the correct locations on the harness. For revision -F or later, install one ferrite.

 **NOTE:** At the time of publication, the penthouse has been renamed to as ‘ancillary bay’. Other procedures may not have been updated.

Correction Description	Correction	Time
SB-23-16-008 Not Applicable	S012316008	0.00
Install Clip-on Ferrite Core onto Ancillary Bay Harness	S022316008	1.74
Remove Ferrite Cores and Install New Ferrite Cores Onto Ancillary Bay Harness	S032316008	2.04

Part Number	Description	Quantity
Parts Required	2019928-00-A YSB, PH, FERRITE 46 ROUND CABLE CORE ASS	1
	1104475-00-F BOLT WSHR DBL M8X23 STL ZNFL SDOG ADH	2
	1104458-00-A NUT&WSHR[CC],M5,STL[8],ZN	3
If Required:		
	1941793-00-A YSB, PH, FERRITE 31 SOLID CORE	1
Shop Supplies	1922330-00-A TAPE, PET FLEECE, RUBBER, PENTHOUSE FERRITE	
	1019168-00-A ELECTRICAL JOINT COMPOUND PENETROX A-13	
	000-0474-001 LOCTITE 222	

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

Procedure

1. Determine the harness part number before ordering parts:

- a. Go to Genealogy of the Electronic Parts Catalog (refer to [Parts Catalog](#)).
- b. Enter the VIN, and then find the part number of the HV battery pack.
 - If the part number is 1733002-D0-C or 1733002-D0-D, the vehicle is equipped with a revision -F LV harness. Do not order 1941793-00-A.
 - If the part number is not 1733002-D0-C or 1733002-D0-D, the vehicle is equipped with a revision -E LV harness. Order all parts on the parts list.

2. Remove the ancillary bay cover (refer to Service Manual procedure [16101052](#)).

3. Confirm the ancillary bay LV harness part number.



NOTE: The part number label is located on top of the PCS, next to HVC connector (Figure 1).

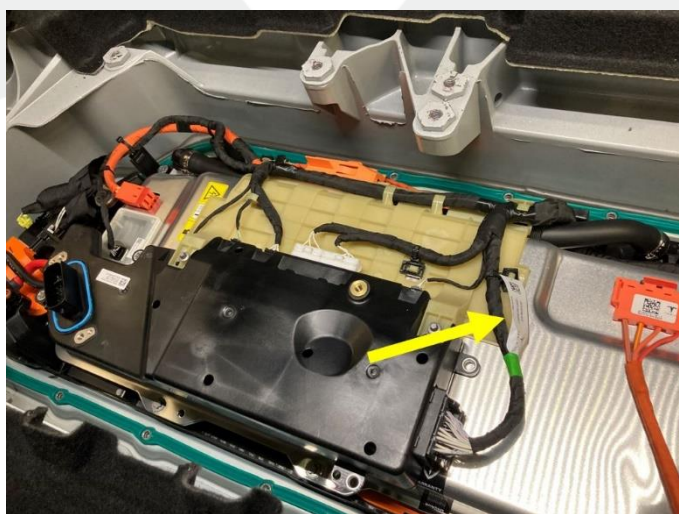


Figure 1

- If the part number is 1616706-00-F or later, go to step 21.
 - If the part number is 1616706-00-E or earlier, go to the next step.
4. Verify that the HV insulator covers are present (Figure 2).



NOTE: If necessary, install insulator covers before continuing this procedure.

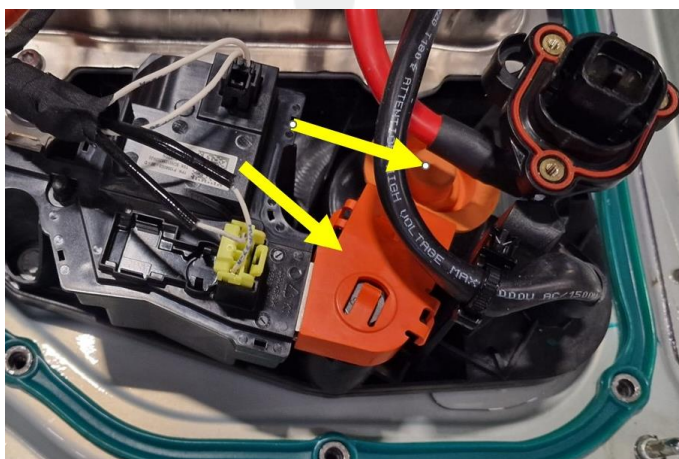


Figure 2

5. Remove the leather outer gloves, but do not remove the HV gloves.

⚠ CAUTION: This is a one-time exception to remove only the leather gloves for this procedure. Make sure the HV gloves are not damaged during rework.

6. If clip-on ferrites are present on this section of the ancillary bay LV harness, remove and discard the ferrites from the PCS logic harness branch and the HV+ sense harness branch (Figure 3).

📋 NOTE: The clip-on ferrites are covered in tape. If the tape on the harness is damaged or removed, apply new tape to the PCS logic harness branch. The tape on the HV+ sense harness branch will be removed in a later step.

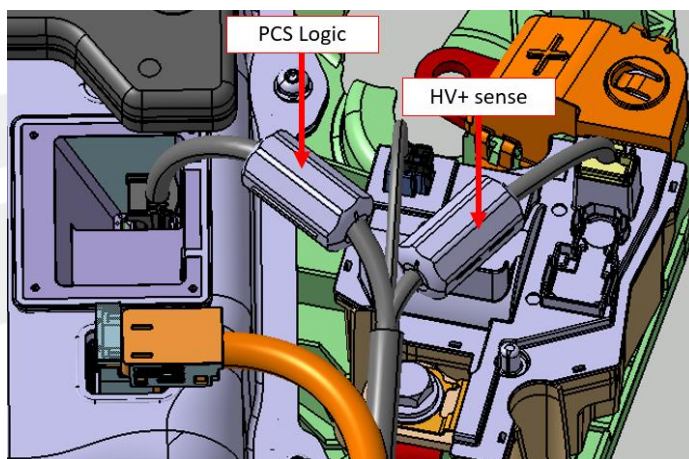


Figure 3

7. Disconnect the HV+ sense connector (Figure 4).

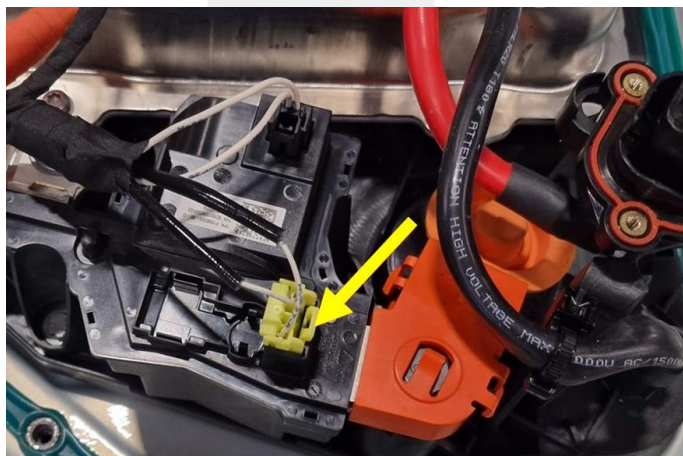


Figure 4

8. Apply electrical tape to the positive pack contactor (Figure 5).

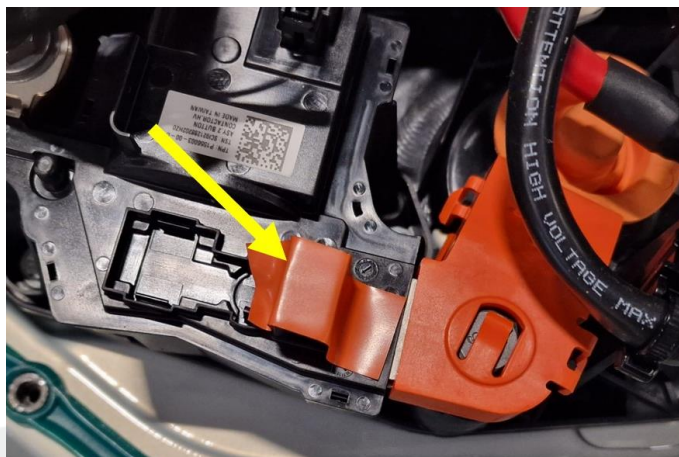


Figure 5

9. Remove the tape from the HV+ sense harness branch. (Figure 6).

⚠ CAUTION: Do not cut past the splice and do not remove the cable sleeves.

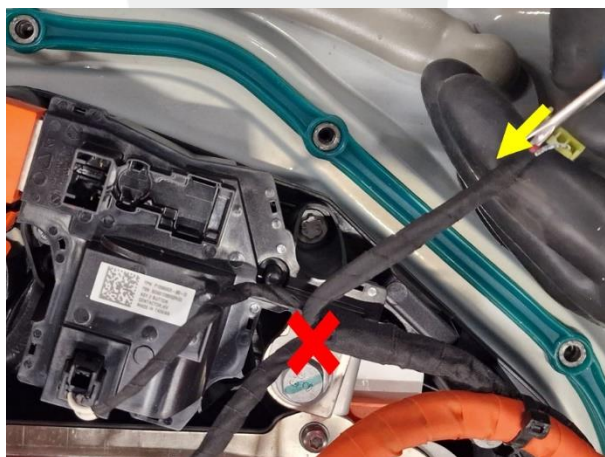


Figure 6

10. Disconnect the positive pack contactor switch connector (Figure 7).

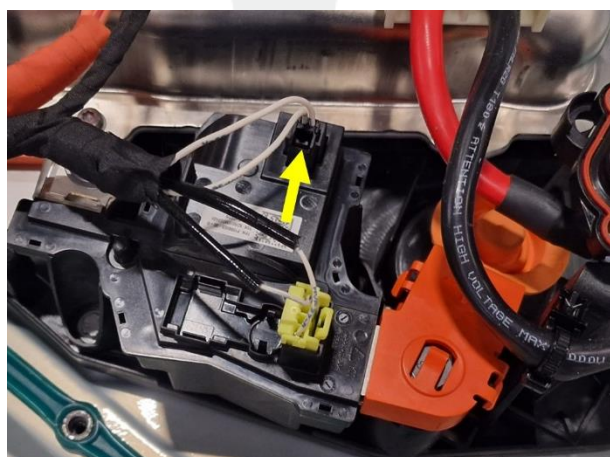


Figure 7

11. Remove the tape from the positive pack contactor switch harness branch. (Figure 8).

 **CAUTION:** Do not cut past the splice.

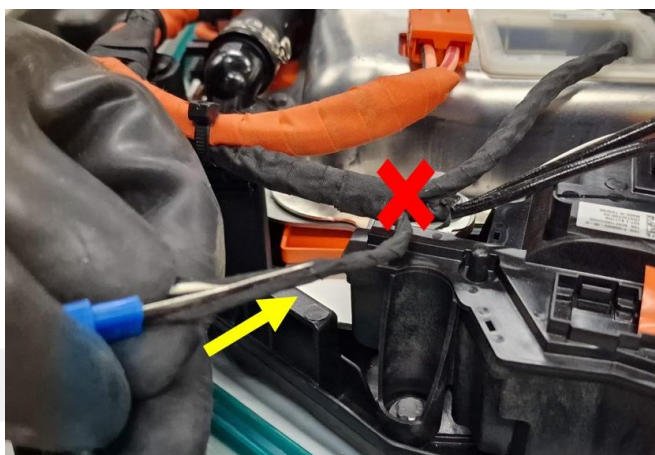


Figure 8

12. Mark the connector housing and the wires of the HV+ sense connector to help identify the wires later in this procedure (Figure 9).

 **NOTE:** Use two different colors of paint pen to differentiate the terminals.



Figure 9

13. Release the terminals from the HV+ sense connector (Figure 10).

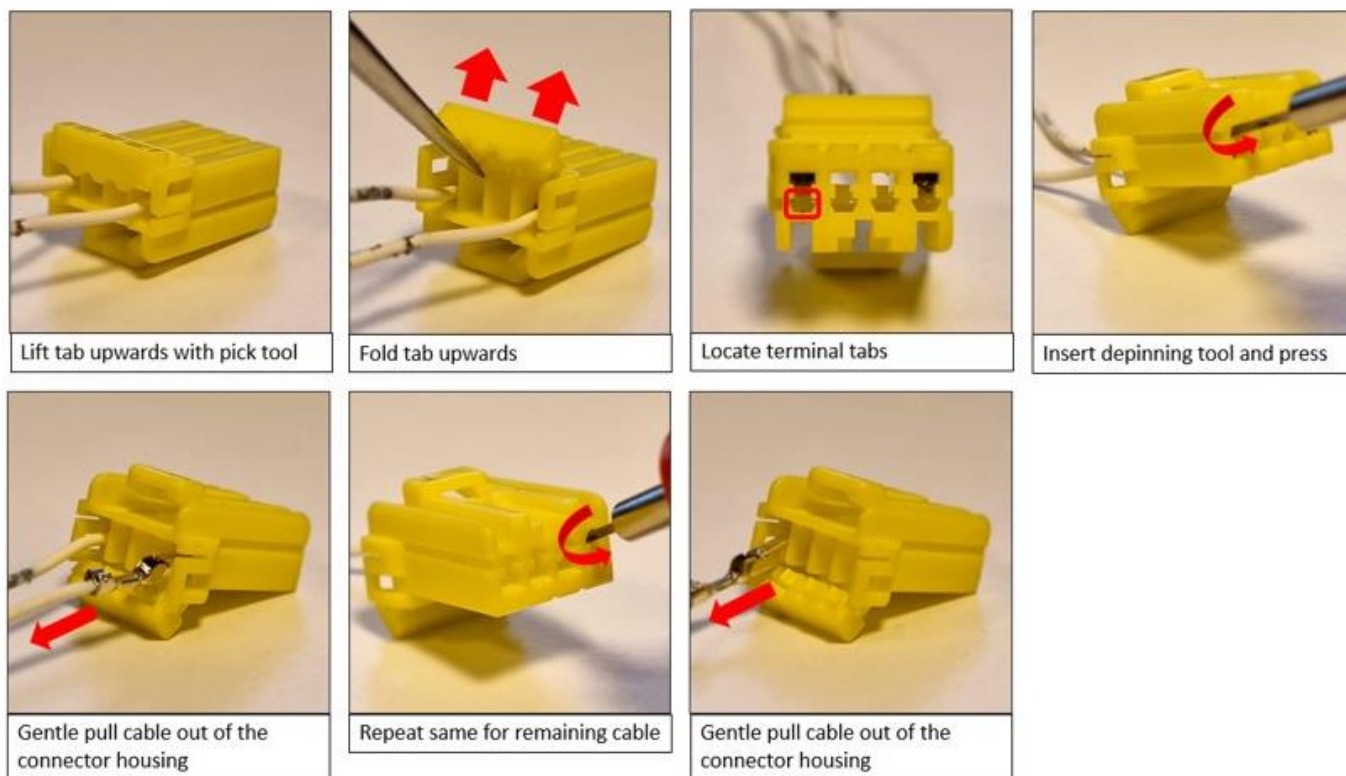


Figure 10

14. Mark the connector housing and the wires of the positive pack contactor switch connector (Figure 11).



NOTE: Use two different colors of paint pen to differentiate the terminals.



Figure 11

15. Release the terminals from the positive pack contactor switch connector (Figure 12).

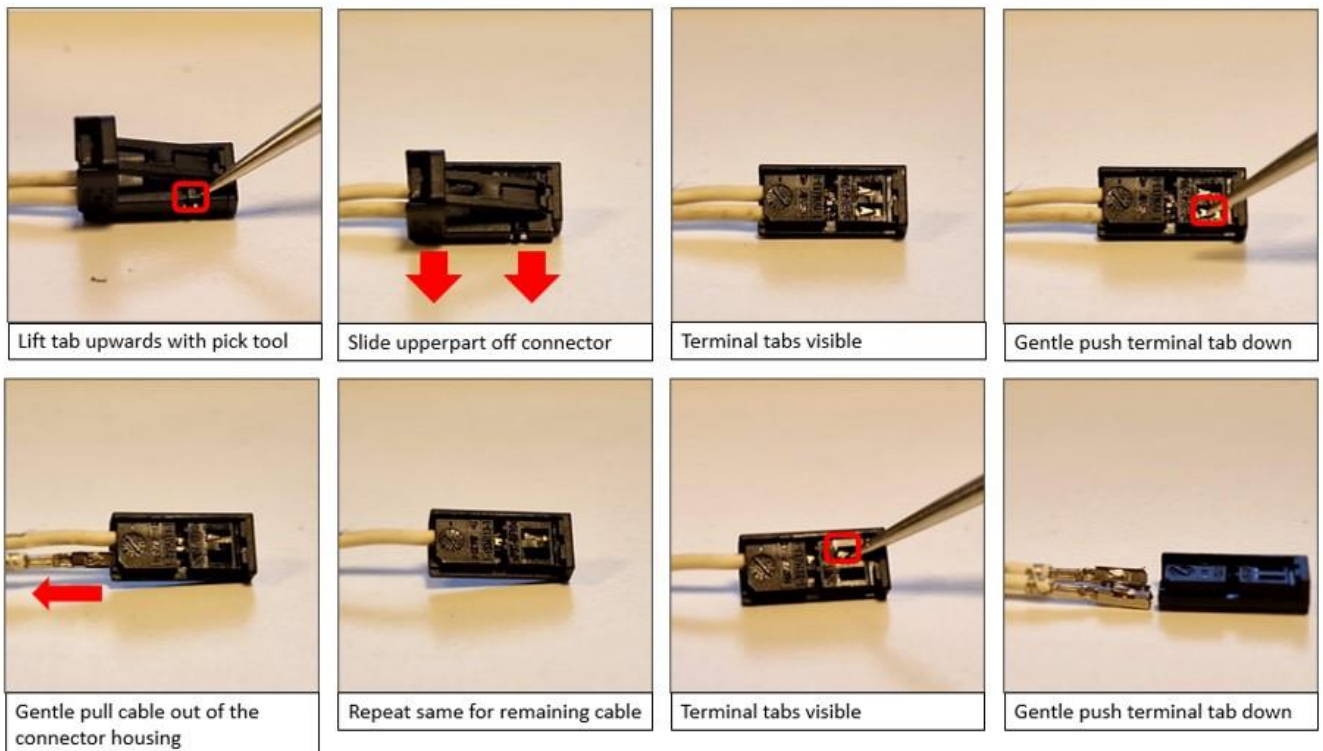


Figure 12

16.Route the wires (x4) through the solid core ferrite, and then position the ferrite as close to the harness splice as possible. (Figure 13).



Figure 13

17.Secure the solid core ferrite to the harness using tape (Figure 14).

 **NOTE:** Make sure the tape is wrapped around the harness on both sides of the ferrite core.



Figure 14

18.Insert the terminals (x2) into the HV+ sense connector (Figure 15).

 **NOTE:** Use the markings from step 11 for positioning. If necessary, use the wiring diagram (Figure 16).

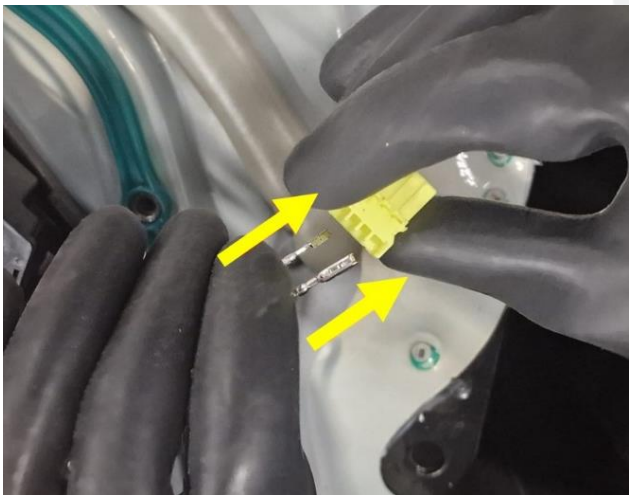


Figure 15

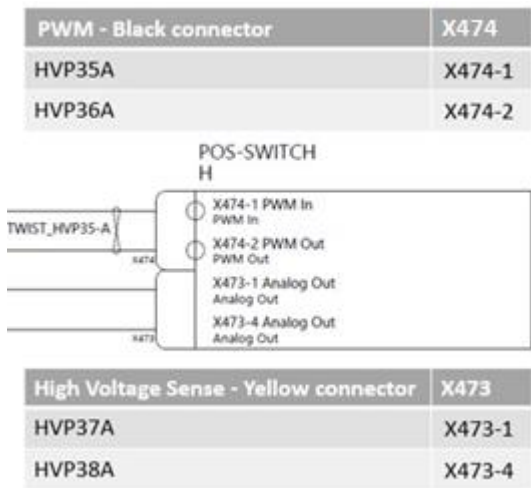


Figure 16

19. Insert the terminals (x2) to the positive pack contactor switch connector (Figure 17).



NOTE: Use the markings from step 13 for positioning. If necessary, use the wiring diagram (Figure 16).

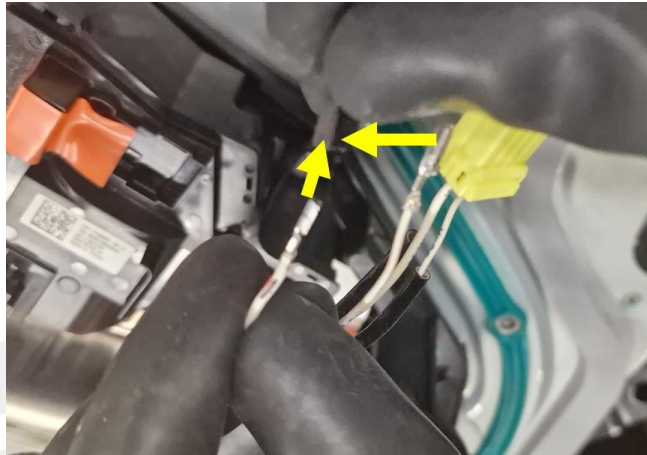


Figure 17

20. Remove the tape from the positive pack contactor (Figure 5).

21. Reconnect the HV+ sense connector and the positive pack contactor switch connector (Figure 18).



Figure 18

22. Install a clip-on ferrite core to the shunt harness (refer to Service Manual procedure [16305026](#)).

23. Install the ancillary bay cover (refer to Service Manual procedure [16101052](#)).

24. If only the clip-on ferrite was installed, use correction code S022316008. If both ferrites were installed, use correction code S032316008.