



Tesla, Inc.
Service Bulletin

Inspect Ancillary Harness

SB-24-16-008

December 6, 2024

Classification		Section/Group	Mobile Service	Configuration
Repair Bulletin		16 - HV Battery	Cannot Perform	All
Model	Model Year	Country/Region	Build Location	
Cybertruck	2024	United States	Giga Texas	

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.

Condition

On certain Cybertruck vehicles, the HV battery ancillary harness may have been improperly routed, which might strain the harness branches and/or connectors between the High Voltage Controller (HVC) and Battery Management Boards (BMBs), potentially preventing HVC and BMB communication through one of the two harness branches.

NOTE: Full communication failure between the HVC and BMBs is unlikely, as the ancillary harness has two connections to the BMBs, and only one active connection is needed for the BMBs to communicate with the HVC.

Correction

When the ancillary cover is removed for other service procedures, inspect the vehicle for symptoms related to the condition. If symptoms are present, rework or replace the HV battery ancillary harness.

Correction Description	Correction	Time
Inspect HV Battery Ancillary LV Harness; Rework HV Battery Ancillary LV Harness	S012416008	0.12
Inspect HV Battery Ancillary LV Harness; Replace HV Battery Ancillary LV Harness	S022416008	0.42

Part Number	Description	Quantity
If Necessary 1682237-00-H	ANCILLARY LOW VOLTAGE HARNESS	1

This part number was current at the time of publication. Use the revision listed or later, unless otherwise specified in the [Parts Catalog](#).

Special Tools Ruler or measuring tape

If replacing the ancillary harness
SKT, 3/8" DR, 10EP TORX PLUS EXTERNAL

To remove and re-apply RTV sealant (if present) during ancillary harness replacement

ThreeBond 1216E Silicone Type Liquid Gasket
TOOL, CAULKING & ADHESIVE GUN, M18
KNIPEX 98 54 1,000V Insulated Cable Knife

Shop Supplies Cable ties
Paint pen

Procedure

⚠ WARNING: Only technicians who have been trained in *High Voltage Awareness* and have completed all required certification courses (if applicable) are permitted to perform this procedure. Proper *personal protective equipment (PPE)* and *insulating HV gloves* with a minimum rating of *class 0 (1000V)* must be worn at all times a high voltage cable, busbar, or fitting is handled. Refer to [Tech Note TN-15-92-003](#), High Voltage Awareness Care Points for additional safety information.

⚠ WARNING: This procedure begins with the HV battery ancillary bay cover already removed due to service on other vehicle components and assumes that HV disablement (refer to Service Manual procedure [17010000](#)) has already been performed on the vehicle. Do not begin this procedure unless you are certain HV disablement has already been performed.

1. Put on HV insulating gloves and leather over gloves.
2. Inspect the (2x) HV battery ancillary harness branches to the BMBs (Figures 1–3). Look closely at the harness bundles, wire terminals, and connector housings.

📄 NOTE: The harness branches might be strained or taut (Figure 3). This does not necessarily mean the harness is damaged; but if strain is observed, the harness should be closely inspected.

- If the (2x) ancillary harness branches to the BMBs appear to be in good condition, with no damage to any part of the harness and connectors, skip to step 3 to rework the harness.
- If any of the (2x) ancillary harness branches connecting to the BMBs appear damaged, replace the harness (refer to Service Manual procedure [1710118012](#)). Use correction code S022416008, discontinue this procedure, and then return to the other procedure(s) that required opening the ancillary bay for service.



Figure 1

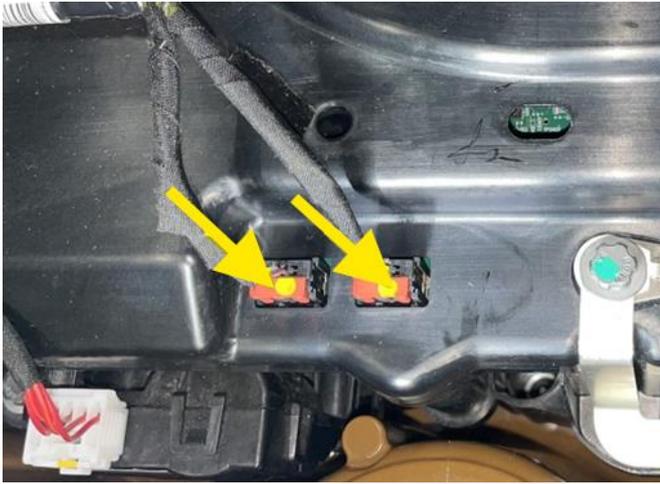


Figure 2

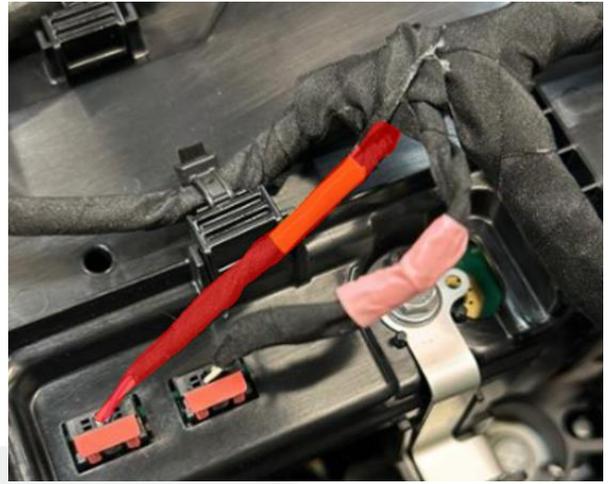


Figure 3 – A strained harness branch (red) is a sign to check for potential damage

3. Use a paint pen to mark the HV battery ancillary harness 20 mm to the RH side of the BMB harness clip (the harness clip that is next to the BMB connectors) (Figures 4 and 5).

NOTE: Measure 20 mm with the ruler aligned with the center of the BMB harness clip (see red dashed line in Figure 5).

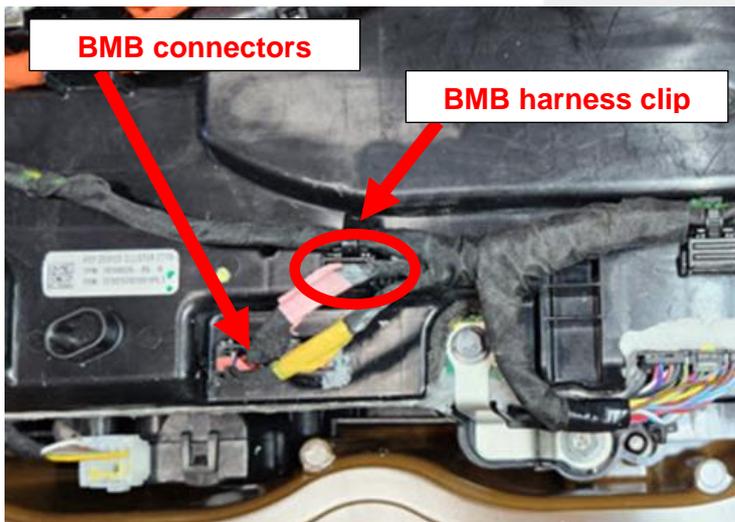


Figure 4

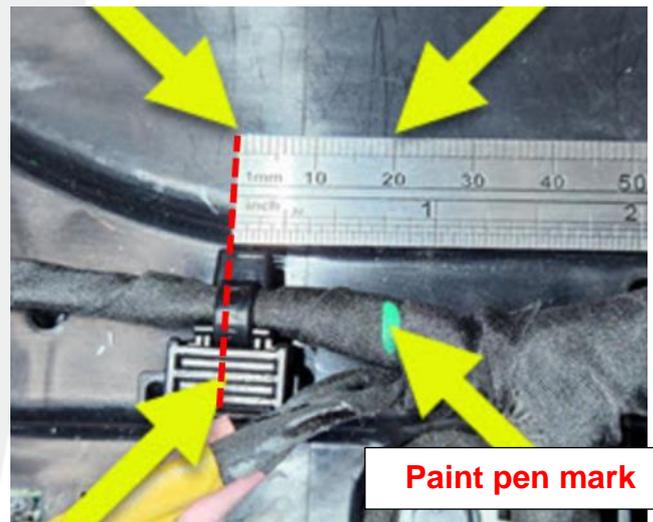


Figure 5

4. Note the orientation of the cable tie that is attached to the BMB harness clip (Figures 4 and 6), as this cable tie will be removed and a new cable tie will be installed later in this procedure.

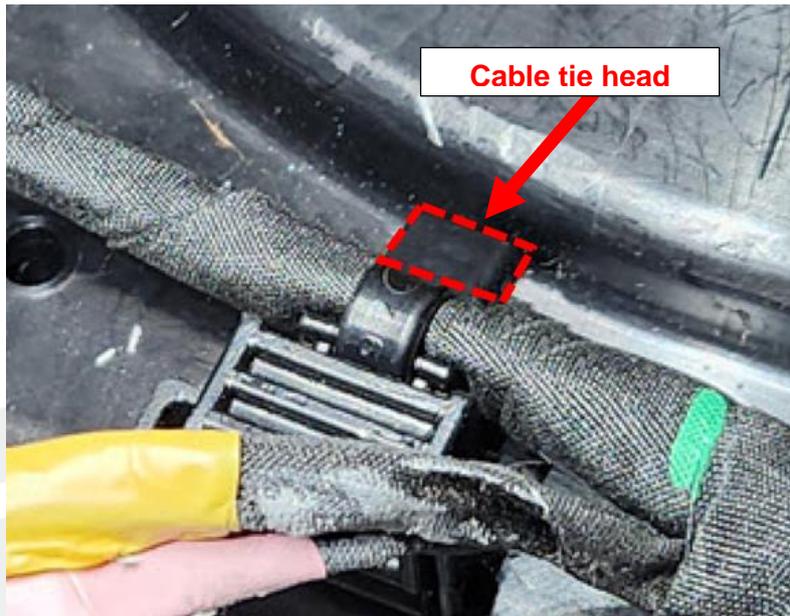


Figure 6

5. Carefully use diagonal cutters to cut and remove the cable tie from the BMB harness clip (Figures 7 and 8).

⚠ CAUTION: Make sure to remove all cable tie pieces so that there is no loose debris in the ancillary bay.

⚠ CAUTION: Avoid damaging the clip and harness while cutting the cable tie.

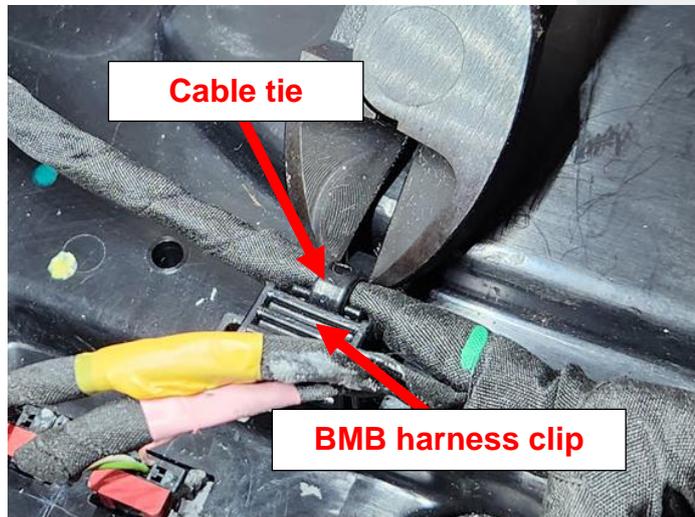


Figure 7



Figure 8

6. Position a new cable tie through the BMB harness clip and around the ancillary harness (Figure 9). Do not fully tighten the cable tie yet.



Figure 9

7. Pull the ancillary harness to the LH side of the ancillary bay so that the paint pen mark (drawn during step 3) aligns with the cable tie, and then tighten the cable tie (Figure 10).

⚠ CAUTION: The cable tie should be tight enough so that it holds the ancillary harness securely in place; but do not overtighten the cable tie, as this could damage the harness or BMB harness clip.



Figure 10

- Cut the excess cable tie, and then tuck the cable tie head into the ancillary bay (Figures 11 and 12).

⚠ CAUTION: Discard the cut cable tie end and remove any leftover debris from the ancillary bay.



Figure 11

Figure 12

- Use correction code S012416008, discontinue this procedure, and then return to the other procedure(s) that required opening the ancillary bay for service.