 Tesla, Inc. Service Bulletin		<i>Inspect X950 and X952 for Damaged Electrical Circuits</i>	
SB-20-17-010 November 3, 2020		R1	
Classification Campaign Bulletin		Section/Group 17 - Electrical	Mobile Service Cannot Perform
Model Year 2017–2020	Model Model 3	Country/Region All	Version All
<small>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.</small>			

Campaign Bulletin: This campaign bulletin addresses a known non-safety-related condition and provides recommended technical diagnosis and repair procedures. Apply this procedure to all vehicles in the affected VIN list.

This Service Document supersedes SB-20-17-010, dated 29-Oct-20. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.


Condition

On certain Model 3 vehicles, an open electrical circuit or short to ground near connectors X950 or X952 may display a restart alert on the touchscreen, or prevent the vehicle from starting altogether.


Correction

Inspect for damaged electrical insulation near connectors X950 or X952, and perform electrical repairs, if necessary.

Correction Description	Correction	Time
SB-20-17-010 Not Applicable	S012017010	0.00
Inspect Electrical Insulation Near Electrical Circuits At X950 And X952; No Wire Repair Necessary	S022017010	0.25
Inspect Electrical Insulation Near Electrical Circuits At X950 And X952; Perform Wire Repair	S032017010	See Note

 **NOTE:** The correction time for S032017010 is 0.25, and then add the actual time to perform the wire repair(s) on correction code 17105008.

Part Number	Description	Quantity
Parts Required (If Necessary) 1116820-00-A	ASY, TERMINAL, 1718760-1, 0.50	As required

 **NOTE:** This terminal is also available in the Tooling Kit 1115735-00-A (tube 388/192). Request the individual terminal if the Tooling Kit is not available.

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 1044206-00-A Wheel Trim Removal Tool (19" Stiletto or 20" Sport wheels)

If performing wire repairs:
 1060908-00-A Soldering Iron and Heat Tool Kit
 1451046-00-A Crimp Tool
 1061312-00-A Replacement soldering tip
 1451045-00-A Wire cutting and stripping pliers

Shop Supplies Isopropyl Alcohol Wipes

Procedure

1. Remove the LH and RH rear wheels (refer to Service Manual procedure [34015001](#)).
2. Release the clips (x7) that attach the rear portion of the LH rear wheel arch liner to the vehicle (Figure 1).



Figure 1

3. Move the arch liner so that it rests on the brake rotor as shown (Figure 2).



Figure 2

4. Repeat steps 2 and 3 for the RH rear wheel arch liner.

5. Inspect the electrical insulation on all electrical wires at the LH body harness electrical connector X950 (Figure 3):

 **NOTE:** Clean the electrical wires at X950 with an Isopropyl Alcohol (IPA) wipe for better visibility, if needed.

- If the electrical insulation on all electrical wires at X950 is undamaged, continue to the next step.
- If the electrical insulation is damaged on any of the electrical wires at X950 (Figure 4), repair the damaged electrical wire(s) as described in [SI-17-17-002](#), “Electrical Harness Repair”.

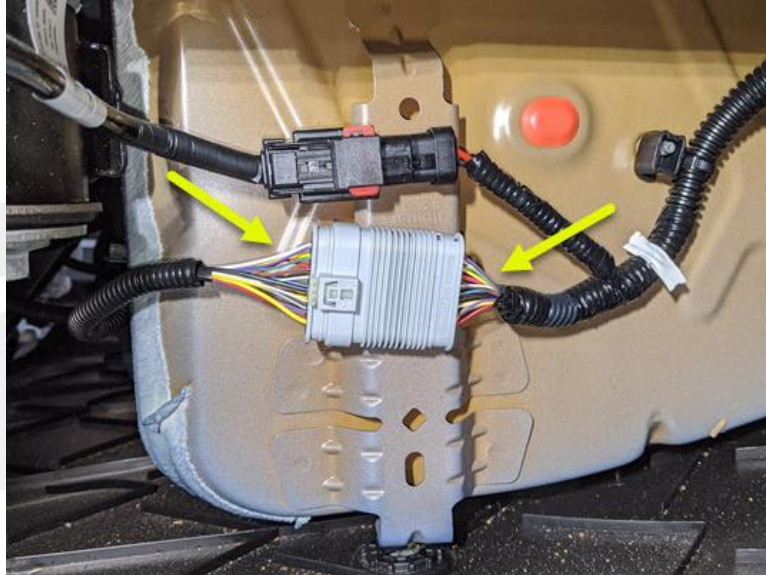


Figure 3

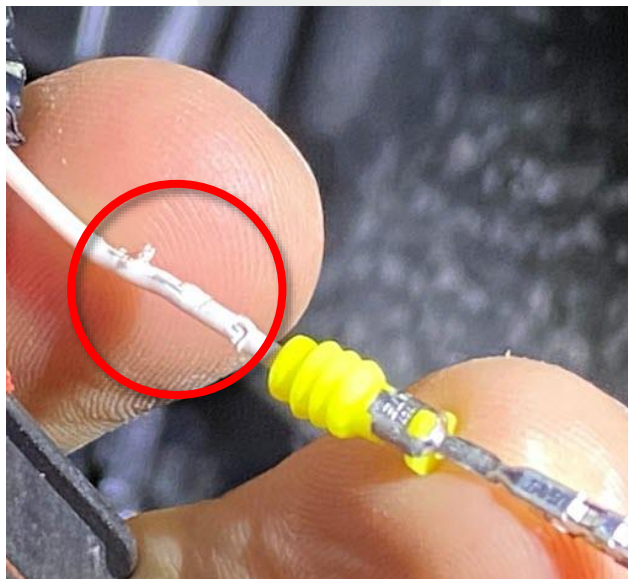



Figure 4 – Sample of typical damage of electrical wire

6. Inspect the electrical insulation on all electrical wires at the RH body harness electrical connector X952 (Figure 5):

 **NOTE:** Clean the electrical wires at X952 with an Isopropyl Alcohol (IPA) wipe for better visibility, if needed.

 **NOTE:** Pay close attention to electrical wires on terminals 8 and 9 (red/white wires). These are the HVIL electrical circuits that are damaged most often.

- If the electrical insulation on all electrical wires at X952 is undamaged, continue to the next step.
- If the electrical insulation is damaged on any of the electrical wires at X952 (Figure 6), repair the damaged electrical wire(s) as described in [SI-17-17-002](#), “Electrical Harness Repair”.

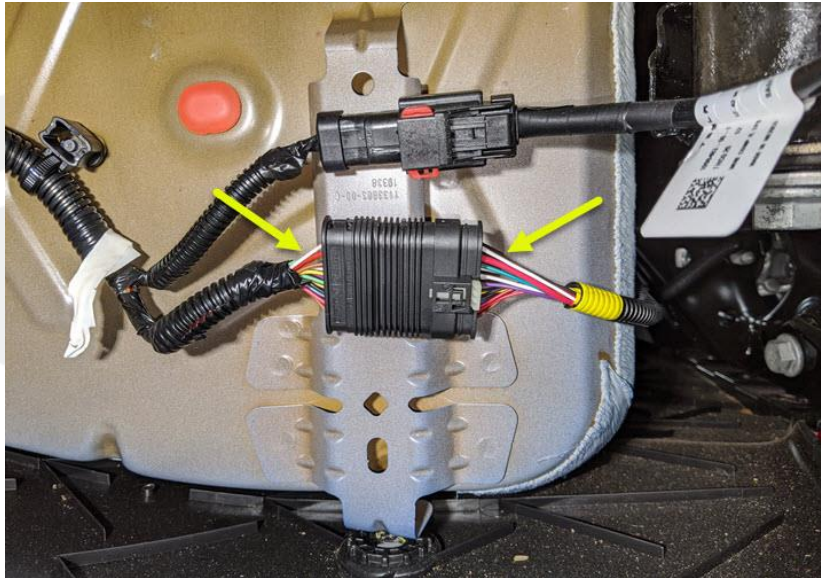


Figure 5



Figure 6 – Damaged electrical circuit at X952

7. Release the LH rear wheel arch liner from the brake rotor, and then install the clips (x7) that attach the arch liner to the body (Figure 1). Repeat this step for the RH side.
8. Install the LH and RH rear wheels (refer to Service Manual procedure [34015001](#)).