Tesla, Inc. Service Bulletin		# *Inspect X950 and X952 for Damaged Electrical Circuits*	
SB-20-17-010 October 29, 2020			
Classification		**Section/Group**	**Mobile Service**
Campaign Bulletin		17 - Electrical	Cannot Perform
Model Year	**Model**	**Country/Region**	**Version**
2017–2020	Model 3	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.			

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.

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)	1115735-00-A	BOX 1, TERMINAL REPLACEMENT KIT (Tube 192)	1
	1061177-00-B	WIRE HARNESS REPAIR KIT	As required
	1116820-00-A	ASY, TERMINAL, 1718760-1, 0.50	As required
	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).

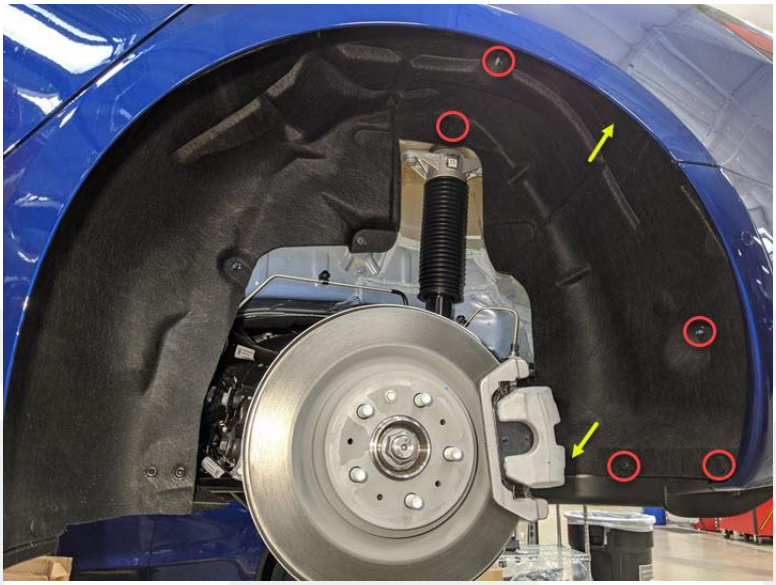

Figure 1

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”.

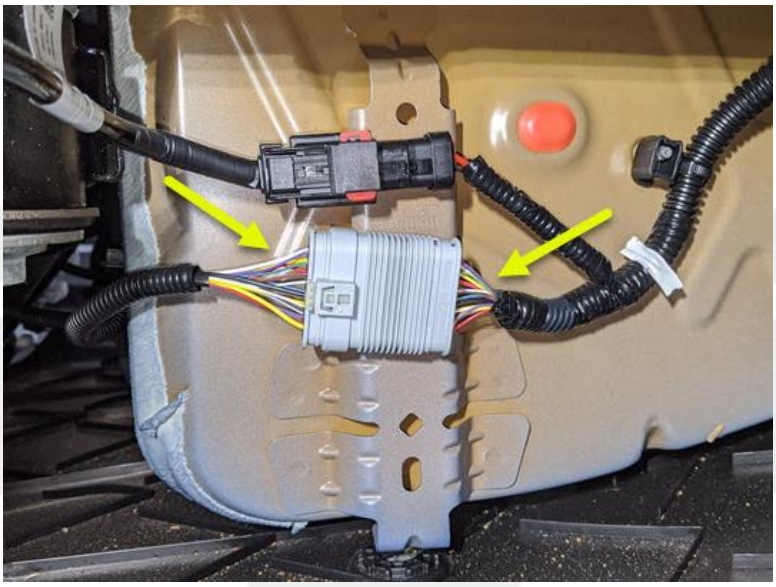

Figure 3

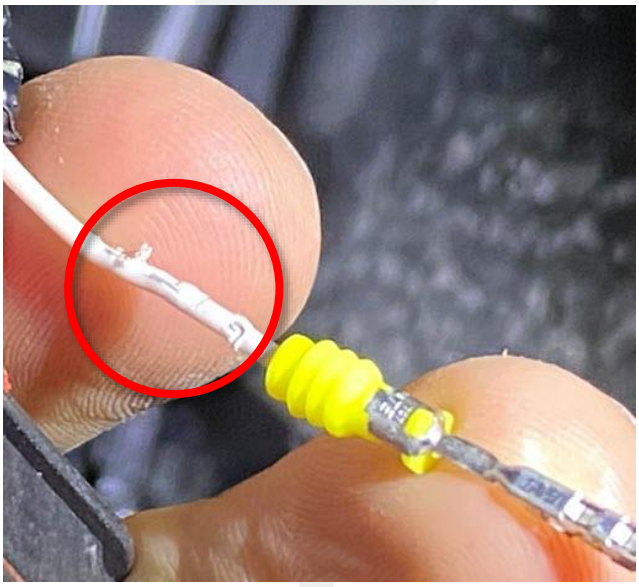

Figure 4 – Sample of typical damage of electrical wire

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”.

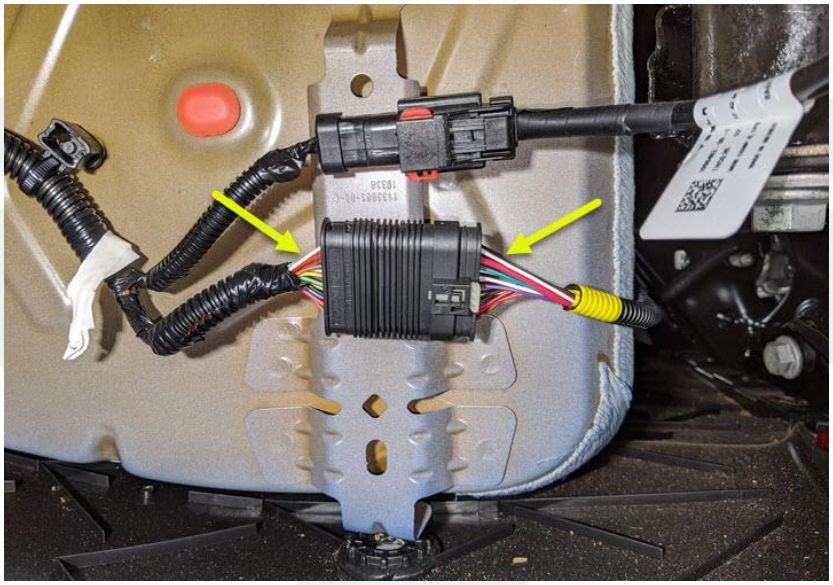

Figure 5

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).

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