		<b>Tesla, Inc.</b> Service Bulletin	<h1>Reroute Main Front Body Harness</h1>	
SB-20-17-004 April 23, 2020		R1		
<b>Classification</b>		<b>Section/Group</b>		<b>Mobile Service</b>
Campaign Bulletin		17 - Electrical		Can Perform (where permitted)
<b>Model Year</b>	<b>Model</b>	<b>Country/Region</b>		<b>Version</b>
2017 - 2019	Model X	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.

*This Service Document supersedes SB-20-17-004, dated 19-Mar-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 X vehicles, the main front body harness might contact the RH front upper control arm.

## Correction

Inspect the main front body harness near the RH front upper control arm, perform wire repairs (if necessary), and then reroute the harness.

Correction Description	Correction	Time
SB-20-17-004 Not Applicable	S012017004	0.00
Reroute Main Front Body Harness	S022017004	0.80
Reroute Main Front Body Harness And Repair Wire(s)	S032017004	1.30

	Part Number	Description	Quantity
<b>Parts Required</b>	1045235-00-A	CLIP,FIR,7x12,BK,TIESTRAP	1
	1089890-00-A	TAPE,PET CLOTH,ACRYLIC,19mm W,150C,BK	1
These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the <a href="#">Parts Catalog</a> .			
<b>Special Tools (if necessary)</b>	1061177-00-B	Wire Harness Repair Kit	
	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	

## Procedure

1. Remove the wiper motor assembly (refer to Service Manual procedure 17502502).
2. Move aside the air suspension reservoir, but do not remove it from the vehicle (refer to Service Manual procedure 31102502).

3. Inspect the fuse box harness branch at the main front body harness near the RH front upper control arm for damage (Figure 1):
  - If there is no sign of the harness contacting the RH front upper control arm, or if the harness is contacting the RH front upper control arm but the insulation of the wires is still intact, continue to the next step.
  - If any of the harness wires are damaged or exposed, repair the harness. Refer to [SI-17-17-002](#), “Electrical Harness Repair” for further instructions on how to repair the wire(s), and then continue to the next step.




**Figure 1**

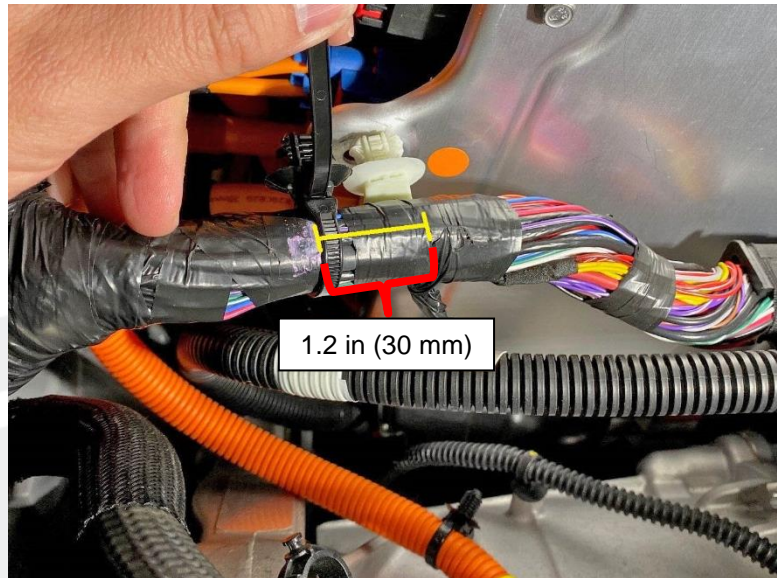
4. Release the fir tree clip that attaches the main front body harness to the Front Junction Box (FJB) (Figure 2).



**Figure 2**

5. Install the new cable tie/clip onto the main front body harness 1.2 in (30 mm) right of the fir tree clip (Figure 3)

 **NOTE:** The new cable tie secures the main front body harness further from the RH front upper control arm without putting tension on the wires.



**Figure 3**

6. Cut the old fir tree clip from the main front body harness using diagonal cutters, and then discard the fir tree clip (Figure 4).



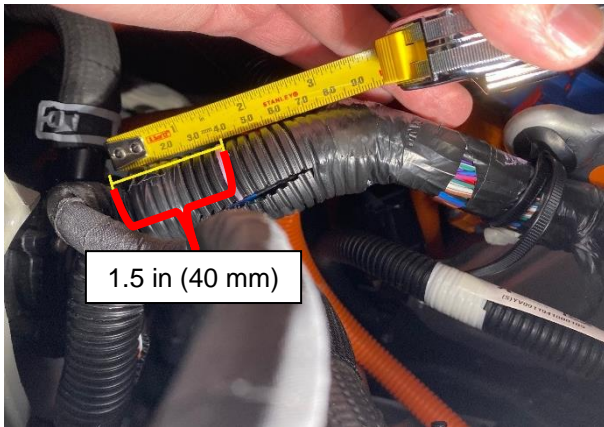
**Figure 4**

7. Install the new clip that attaches the main front body harness to the FJB (Figure 5).



**Figure 5**

8. Relocate the breakout point of the front fusebox harness branch on the main front body harness. Use harness electrical abrasion tape to secure the front fusebox harness branch onto the main front body harness 1.5 in (40 mm) past the breakout point (Figures 6 and 7); this will add distance between the front fusebox harness and the front upper control arm.

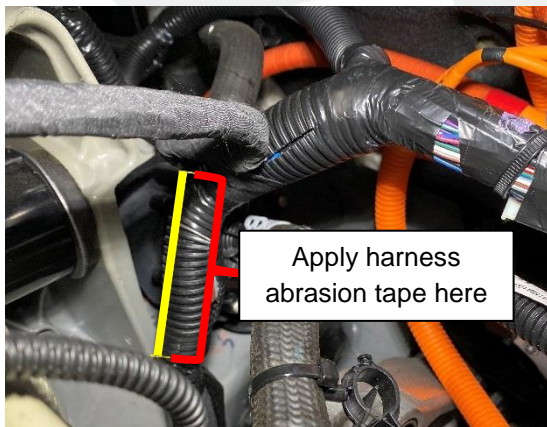


**Figure 6**



**Figure 7**

9. Apply abrasion tape around the harness branch to add protection to the harness (Figures 8 and 9).



**Figure 8**



**Figure 9**

10. Install the air suspension reservoir (refer to Service Manual procedure 31102502).  
11. Install the wiper motor assembly (refer to Service Manual procedure 17502502).