

 Tesla, Inc. Service Bulletin		Reroute RH Frame Harness	
SB-24-17-002 February 28, 2024			
Classification		Section/Group	Mobile Service
Campaign Bulletin		17 - Electrical	Cannot Perform
Configuration			
All			
Model	Model Year	Country/Region	Build Location
Semi	2022 - 2023	United States	Giga Nevada
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 non-safety-related condition and provides recommended technical diagnosis and repair procedures. Apply this procedure to the applicable vehicles.

Condition

On some Semi, the RH frame harness may rub against the thermal hose stud, which may damage the harness over time. Harness damage may result in Anti-Lock Braking System (ABS), traction control, and stability control alerts.

Correction

Inspect the vehicle for symptoms related to the condition. If symptoms are present, perform wire repairs (if necessary), and then reroute the RH frame harness.

Correction Description	Correction	Time
Inspect and Reroute RH Frame Harness	S012417002	0.48

	Part Number	Description	Quantity
Part If Necessary	1530265-01-E	ASY, HARN, RH FRAME, LwB, SEMI	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	1846484-00-A	SEMI, IP, UPPER, NVH BLOCK	
	1080589-00-A	TIRE CHOCK (SET OF 2)	
Shop Supplies	Flashlight LED		
	STD Cable Tie - 5.8"		
If Necessary	Clip Prytool		
	Electrical Tape		
	Felt Tape		
	Gloves		
	Isopropyl Alcohol (IPA) Wipes		
	Liquid Applicator		
	Safety Glasses		

Procedure

1. Position wheel chocks around the LH front tire.
2. Open the LH cabin door.
3. Open the hood.
4. Disable the Low Voltage (LV) and High Voltage (HV) systems.
 - a. On the RH touchscreen, touch **Controls** (vehicle icon) > **Software**, and then hold **Semi** until the “Please enter access code” window appears (Figures 1 and 2).

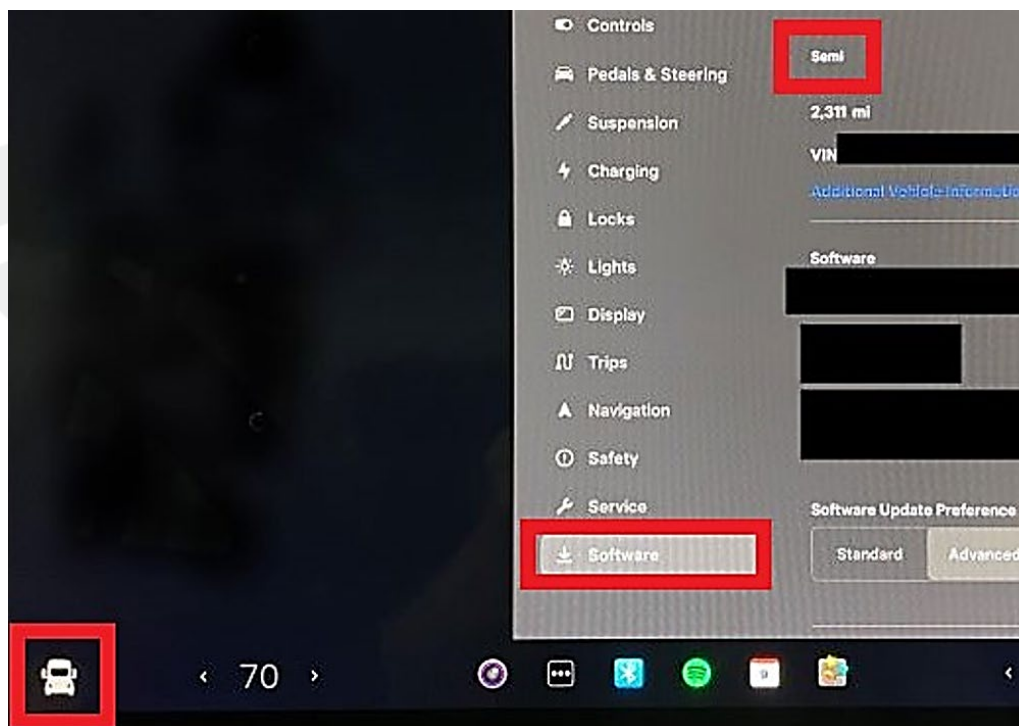


Figure 1

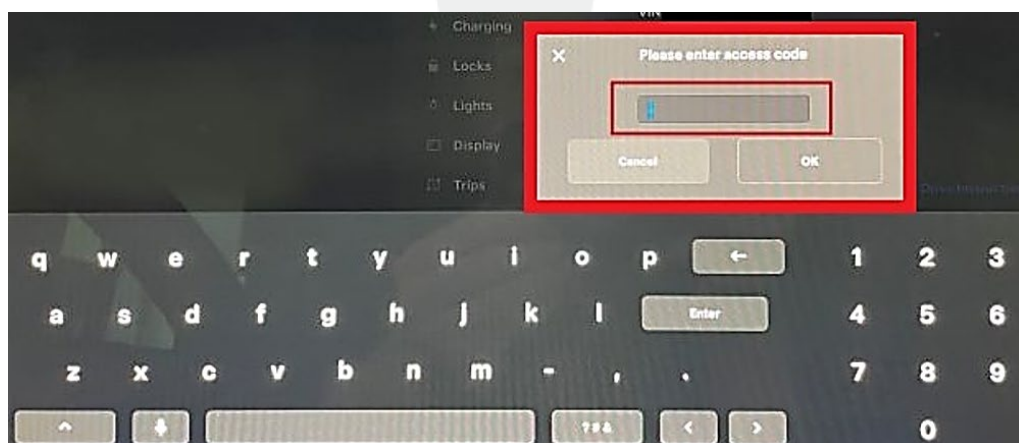


Figure 2

- b. Type “Service” in the access code field (Figure 2), and then touch **OK** to enter Service Mode.

- c. On the RH touchscreen, touch **Actions** > **Kill HV/LV Power** to disable the LV and HV system (Figure 3).

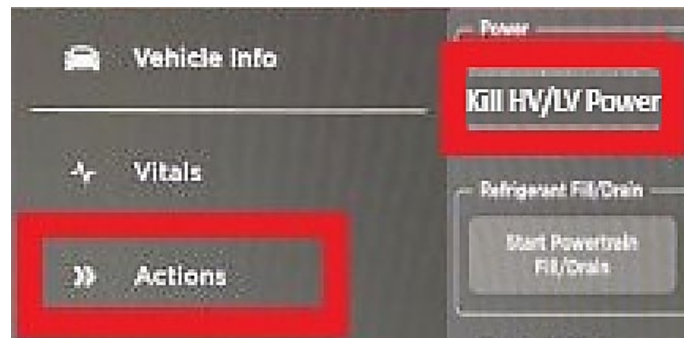


Figure 3

- If the RH touchscreen remains on, perform the following steps:
 - i. Remove the pins (x4) and release the latch clamps (x4) that attach the LV battery box cover to the battery box, and then remove the cover from the box (Figures 4 through 7).



Figure 4 – Battery box (front view)



Figure 5 – Pin installed (4 total)

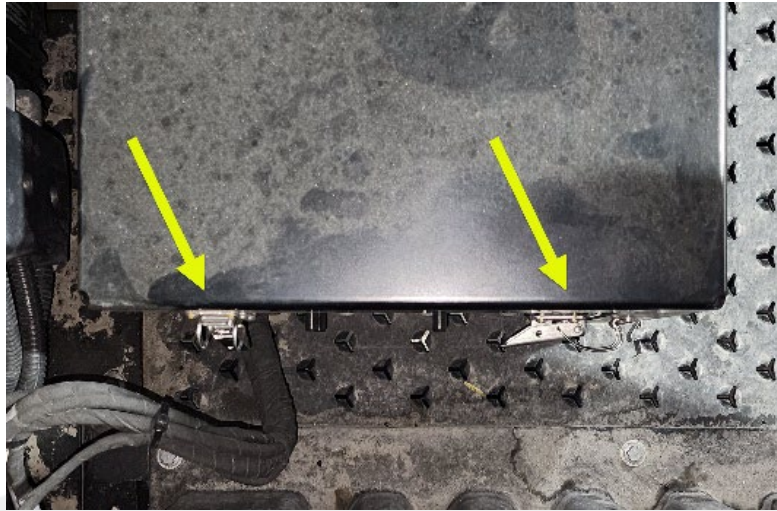


Figure 6 – Latch clamps (1 of 2)

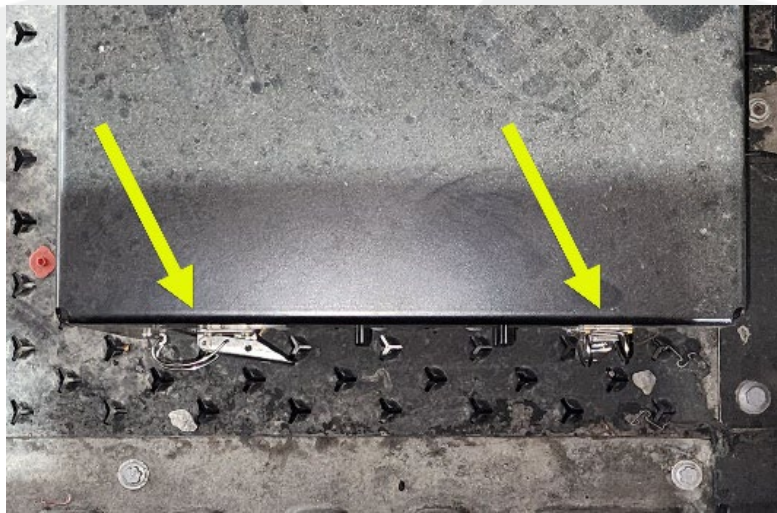


Figure 7 – Latch clamps (2 of 2)

- ii. Use a 13 mm 12 point combination wrench to loosen the nuts (x2) that attach the LV battery negative terminals (x2) to the batteries (x2), and then disconnect the terminals from the batteries (Figures 8 and 9).

! CAUTION: Avoid contacting the battery brace bar with the wrench to prevent arching while disconnecting the terminals.

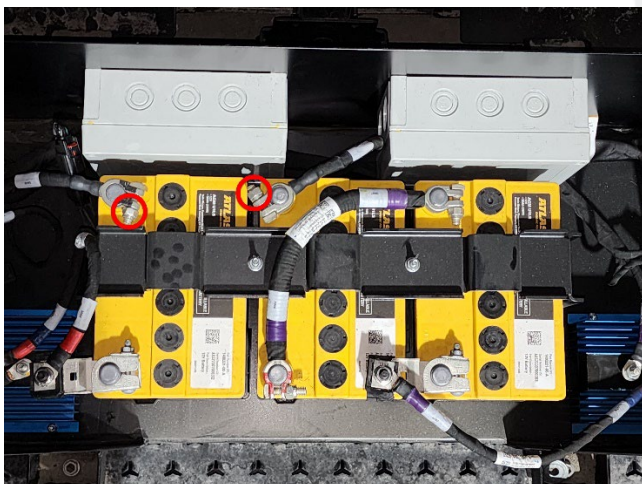


Figure 8



Figure 9

5. Inspect the RH frame harness for indications of damage or rubbing against the thermal hose (Figure 10).

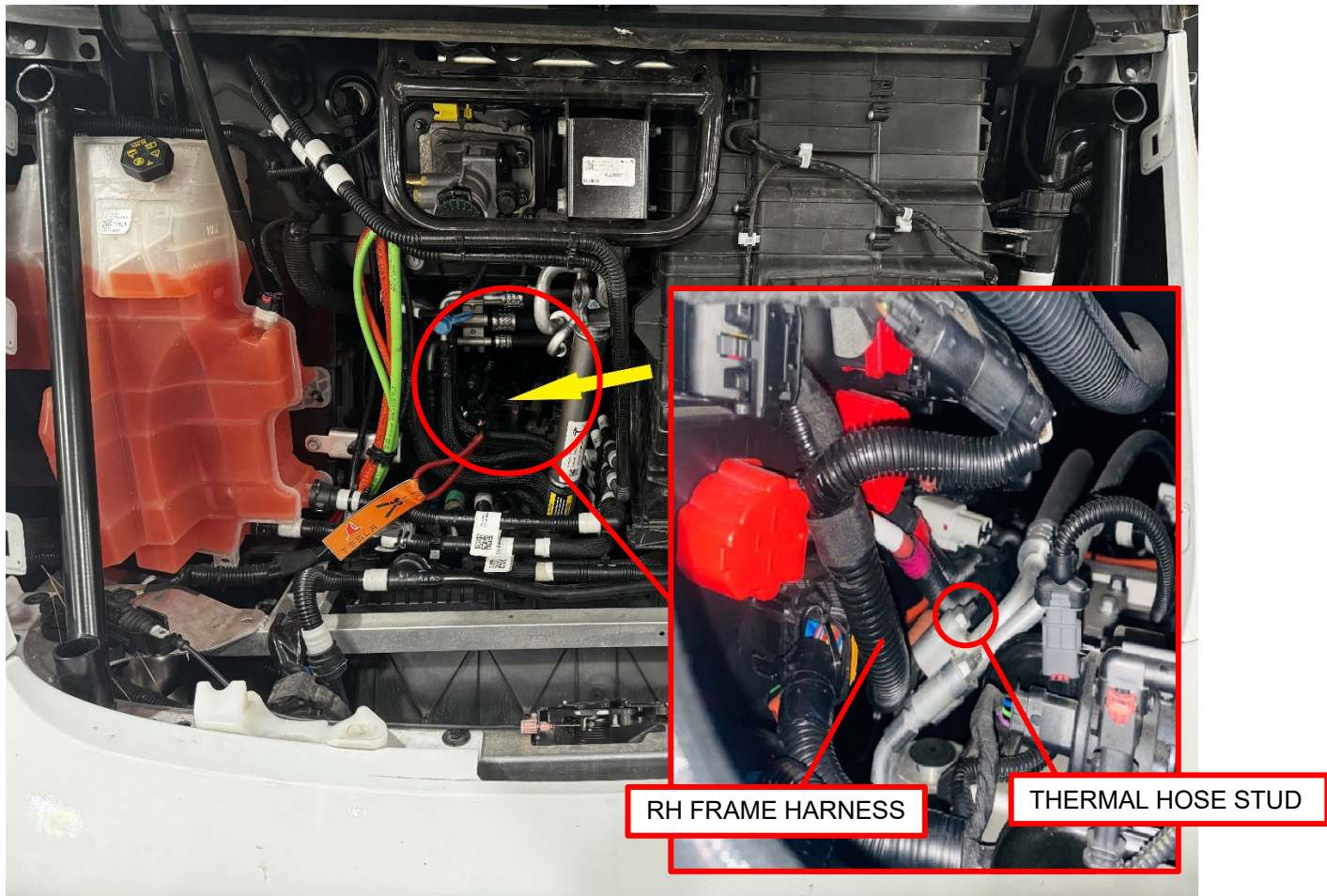


Figure 10 – RH frame harness inspection area

- If evidence of damage or rubbing between the harness and thermal hose stud is not observed, skip to step 6.
- If evidence of damage or rubbing between the harness and thermal hose stud is observed (Figures 11 through 14), perform the following steps:

 **NOTE:** Any additional work required will be documented on a separate job line.

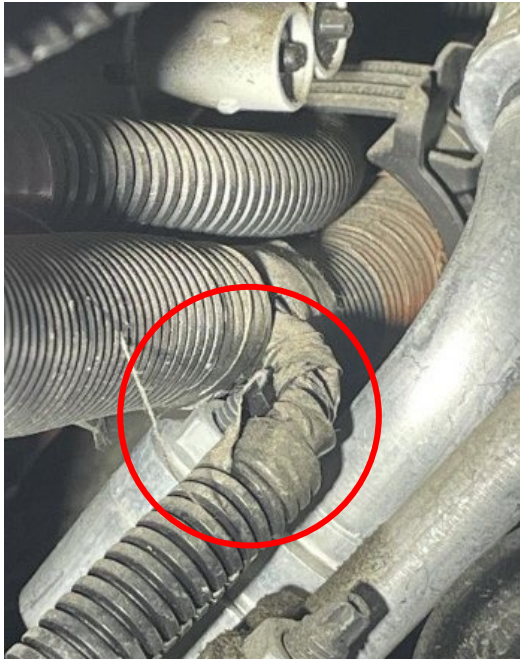


Figure 11 – Evidence of rubbing observed (1 of 2)



Figure 12 – Evidence of rubbing observed (2 of 2)



Figure 13 – Evidence of damage observed (1 of 2)

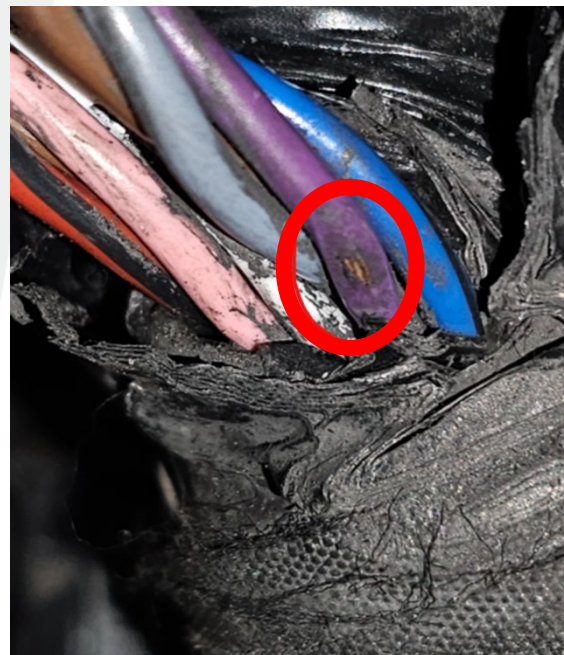


Figure 14 – Evidence of damage observed (2 of 2)

- Create a Toolbox session.
- Record the harness in question and description(s) of the rubbing or damage observed to the Toolbox session. Escalate the Toolbox session, wait for additional support, and then continue to step 6.

6. Reroute the RH frame harness.

- a. Position the RH frame harness away from the thermal hose stud and arrange the harness as shown in Figure 15.

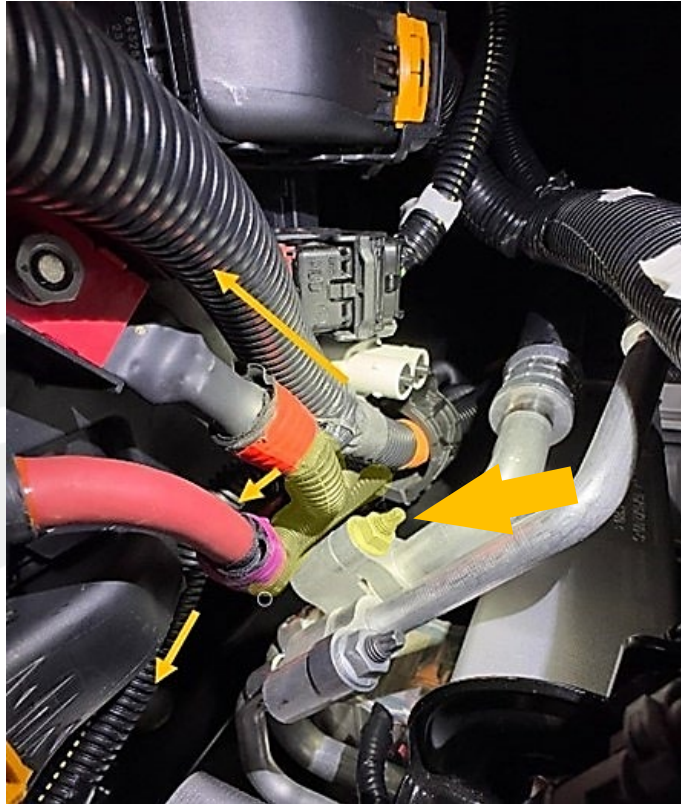


Figure 15

- b. Position a Noise, Vibration, and Harshness (NVH) foam block between the RH frame harness and the thermal hose stud, and then use a cable tie to attach the foam block to the thermal lines (x2) (Figure 16). Cut excessive tie from the cable tie.

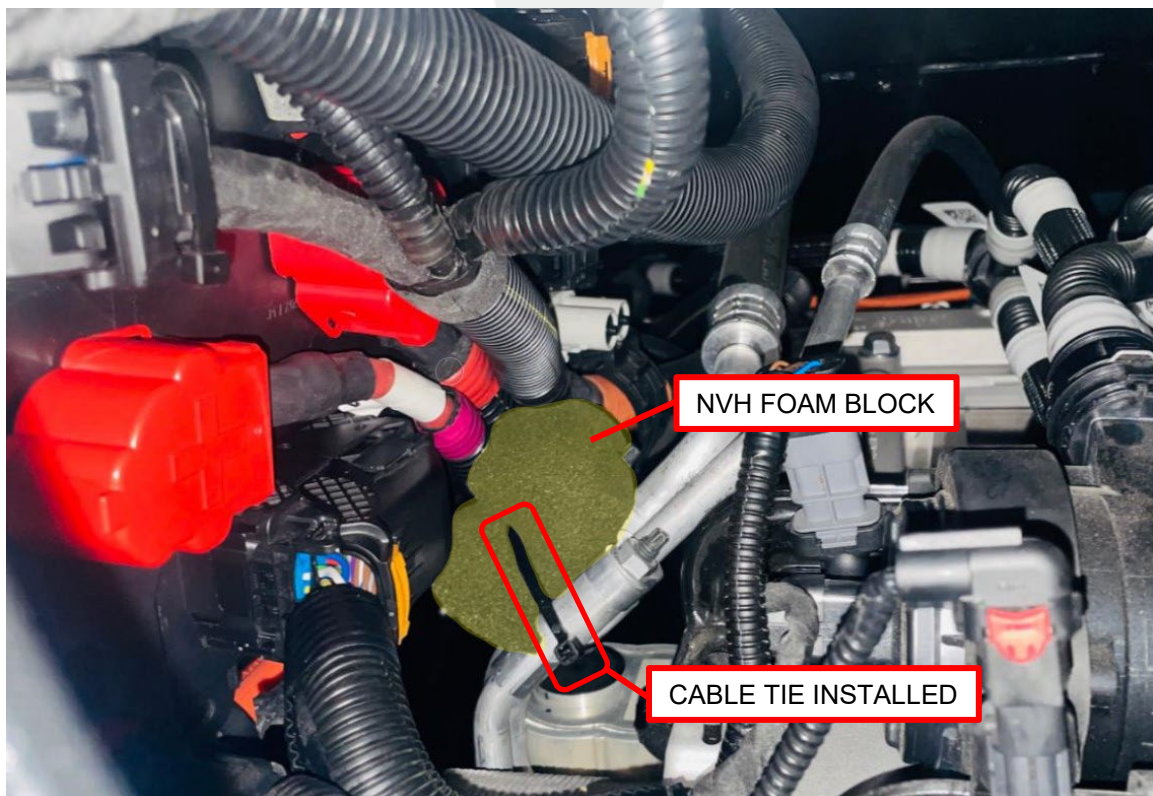


Figure 16
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7. Enable the LV and HV systems.

- If necessary, connect the LV battery negative terminals (x2) to the batteries (x2), and then use a 13 mm 12 point combination wrench to tighten the nuts (x2) (torque 6 Nm) that attach the terminals to the batteries (Figures 8 and 9).

⚠ CAUTION: Avoid contacting the battery brace bar with the wrench to prevent arching while connecting the terminals.

- If necessary, position the LV battery box cover on the battery box, and then engage the latch clamps (x4) and install the pins (x4) that attach the cover to the battery box (Figures 4 through 7).
 - a. On the side console, press and hold the hazard switch for 15 seconds to enable the LV and HV systems (Figure 17).



Figure 17

8. On the RH touchscreen, touch **Controls** (vehicle icon) > **Exit Service Mode** to exit Service Mode (Figure 18).

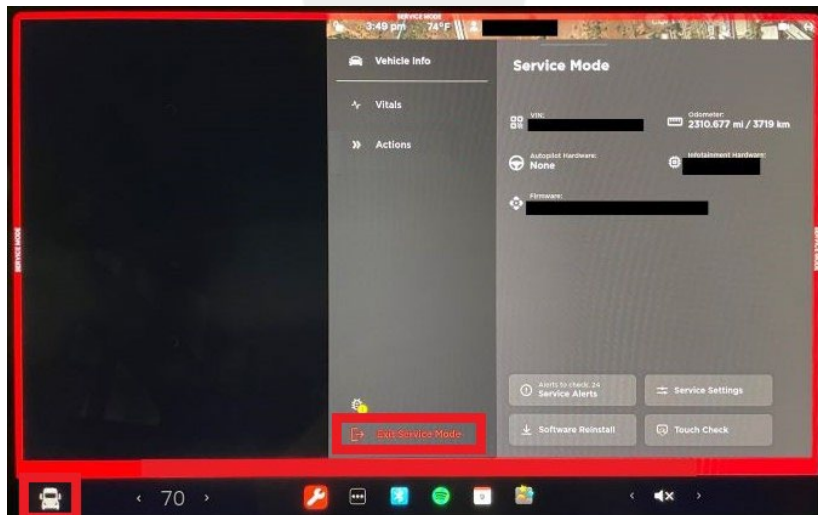


Figure 18

9. Close the hood.

10. Close the LH cabin door.

11. Remove the wheel chocks from the LH front tire.