 Tesla, Inc. Service Bulletin		<h2>Replace Front Aft Links, China</h2>	
SB-20-31-008 October 23, 2020			
Classification Recall Bulletin		Section/Group 31 - Suspension	Mobile Service Cannot Perform
Model Year 2015 - 2017	Model Model S, Model X	Country/Region China	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>			

Recall Bulletin: Recall Bulletins are mandatory service procedures that must be carried out by Tesla-certified Service Centers. Recall work performed by uncertified technicians could lead to unsafe conditions or voided warranty provisions.

Condition

Certain Model S and Model X vehicles in China have experienced front aft link failures at low speeds due to a unique driving environment that causes vehicles to negotiate a severe load or repeated severe loads (e.g., hard curb impact, deep pothole strike) with greater frequency.

Correction

To improve durability, inspect the part numbers on the LH and RH front aft links to determine which components need replacement, replace the affected components with updated ones, and then perform a 4-wheel alignment, if necessary.

Correction Description	Correction	Time
SB-20-31-008 Not Applicable	S012031008	0.00
Inspect Front Aft Links, Replacement Not Necessary	S022031008	0.05
Replace Front Aft Links, And Perform 4 Wheel Alignment, Model S	S032031008	1.60
Remove HV Battery, Replace Front Aft Links, And Perform 4 Wheel Alignment, Model S	S042031008	2.65
Replace Front Aft Links And Perform 4 Wheel Alignment, Model X	S052031008	1.60
Remove HV Battery, Replace Front Aft Links, And Perform 4 Wheel Alignment, Model X	S062031008	3.25

	Part Number	Description	Quantity
If Necessary	1027351-00-C	FR SUSP AFT LINK ASSY	2
	1004358-00-C	NUT HF M14x1.50 [10] ZnNi NL INSERT	2
	2007106	BOLT H CAM M14x2.00x114 [10.9]-G720	2
		Model X	
	2007206	BLT,HEX,FLG,M6-1.00x25[8.8]-09	4
		If removing the HV battery	
	1138547-00-A	BATTERY BOLTS, SERVICE REPAIR KIT, SX	1
	1037743-00-A	BOLT PF M6x40 PC109 ECOFIX	2
		If not removing the HV battery	
	2007059-00-B	NUT HFPT M10x1.50 [10]-ZnNi	2

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	1090881-00-A	BRAKE PEDAL DEPRESSOR
	1038478-00-A	ASY,COVER,HV RAPID,HVBAT
	1028325-00-A	ASY,COVER,LV RAPID,HVBAT
	1020566-00-F	ASY, BATTERY TABLE, MANUAL LIFT
	1071271-00-A	CHASSIS HEIGHT MEASUREMENT TOOL (320MM)
	1090880-00-A	STEERING WHEEL HOLDER **STD. W/ HUNTER ALIGNMENT EQUIP.**
	1049463-00-A	STEERING WHEEL SETUP BALANCE, 270-350 MM
	1129405-00-A	VIDEO SCOPE, OTC 3880X OTC P/N 3880X

Shop Supplies Wheel chocks
Laptop with Garage and Toolbox access
Paint pen
IPA wipes
Multimeter

Procedure

1. Raise the vehicle (refer to Service Manual procedure 10000205).
2. Inspect the part number (PN) on the LH and RH front aft links (Figure 1):



Figure 1 – Model S LH shown, Model X and RH similar

- If a front aft link PN matches one of the following PNs, do not replace that front aft link. Take note and then continue step 3:
 - 1027351-00-C or later
 - 1048951-00-C or later



NOTE: End this procedure if both front aft links do not need replacement.

3. Inspect the bolts that attach the LH and RH front aft links to the subframe.

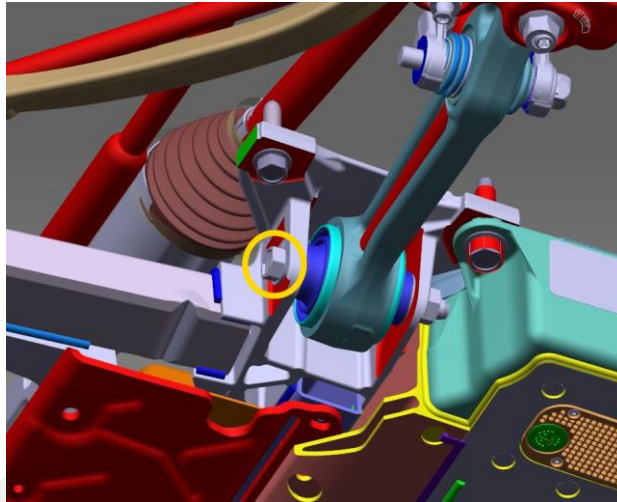





Figure 2 – Bolt head facing away from the HV battery (Model S LH shown, Model X and RH similar)

- If **both** bolt heads are facing away from the HV battery (Figure 2), continue to step 10.
- If only one aft link needs replacement, and the bolt head attached to that aft link is facing away from the HV battery, continue to step 10.
- If a bolt head is facing toward the HV battery, and the front aft link attached to that bolt needs replacement, continue to step 4.

 **NOTE:** As an alternative to performing steps 4–9, the bolt can be cut off with an angle grinder. After all affected bolts have been cut and removed, continue to step 10.

 **WARNING:** When cutting the bolts, wear appropriate Personal Protective Equipment (PPE) that includes safety goggles, face shield, gloves, dust mask or respirator, and hearing protection.

4. Remove the rear underhood apron (refer to Service Manual procedure 12251102).
5. Remove the LH and RH underhood aprons (refer to Service Manual procedure 12251202).
6. **(Model X only)** Remove these components:
 - Front underhood apron (refer to Service Manual procedure 12251002)
 - Underhood storage unit (refer to Service Manual procedure 15240702)
 - HEPA filter (refer to Service Manual procedure 18105502)
7. **(Model S only)** Remove these components:
 - HEPA filter inlet duct (refer to Service Manual procedure 18105002).
 - HEPA filter outlet duct (refer to Service Manual procedure 18105202).
8. Disconnect 12V power (refer to Service Manual procedure 17010100).
9. Remove the HV battery (refer to Service Manual procedure 16010101).
10. Remove the LH and/or RH front wheels, depending on the parts being replaced (refer to Service Manual procedure 34015001).
11. Remove the front aero shield (refer to Service Manual procedure 12030102).
12. Replace the LH and/or RH front aft links (refer to Service manual procedure 31013602).

 **NOTE:** Make sure the new front aft link to subframe bolt(s) are installed with the bolt head facing away from the HV battery.

13. If previously removed, install the HV battery (refer to Service Manual procedure 16010101).
14. Install the front aero shield (refer to Service Manual procedure 12030102).
15. Install all wheels that were removed (refer to Service Manual procedure 34015001).
16. If previously disconnected, reconnect 12V power (refer to Service Manual procedure 17010100).
17. **(Model X only)** If previously removed, install these components:
 - HEPA filter (refer to Service Manual procedure 18105502)
 - Underhood storage unit (refer to Service Manual procedure 15240702)
 - Front underhood apron (refer to Service Manual procedure 12251002)
18. **(Model S only)** If previously removed, install these components:
 - HEPA filter outlet duct (refer to Service Manual procedure 18105202)
 - HEPA filter inlet duct (refer to Service Manual procedure 18105002)
19. If previously removed, install the LH and RH underhood aprons (refer to Service Manual procedure 12251202).
20. If previously removed, install the rear underhood apron (refer to Service Manual procedure 12251102).
21. Drive the vehicle onto a 4 post lift.
22. Perform a 4-wheel alignment check to determine what adjustment is necessary (refer to Service Manual procedure 31000100 (coil suspension) or 31002500 (air suspension)).