


 <b>Tesla, Inc.</b> <b>Service Bulletin</b>		<h2>Replace Front Fore Links, China</h2>	
<b>SB-20-31-010</b> November 2, 2020			
<b>Classification</b> Campaign Bulletin		<b>Section/Group</b> 31 - Suspension	<b>Mobile Service</b> Cannot Perform
<b>Model Year</b> 2013 - 2017	<b>Model</b> Model S, Model X	<b>Country/Region</b> China	<b>Version</b> 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.

 **NOTE:** This bulletin can be performed either standalone, or in conjunction with SB-20-31-007, SB-20-31-008, or SB-20-31-009.

 **NOTE:** If performing this bulletin as a standalone repair, use S052031010 or S062031010 if it is necessary to replace the fore links.

 **NOTE:** If performing this bulletin in conjunction with SB-20-31-007, SB-20-31-008, or SB-20-31-009, use S032031010 or S042031010 if it is necessary to replace the fore links. These correction codes only bill the time required to remove the old fore links and install the new fore links; access to the fore links and the 4 wheel alignment are billed in SB-20-31-007, SB-20-31-008, or SB-20-31-009.

## Condition

Certain Model S and Model X vehicles in China have experienced front fore 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

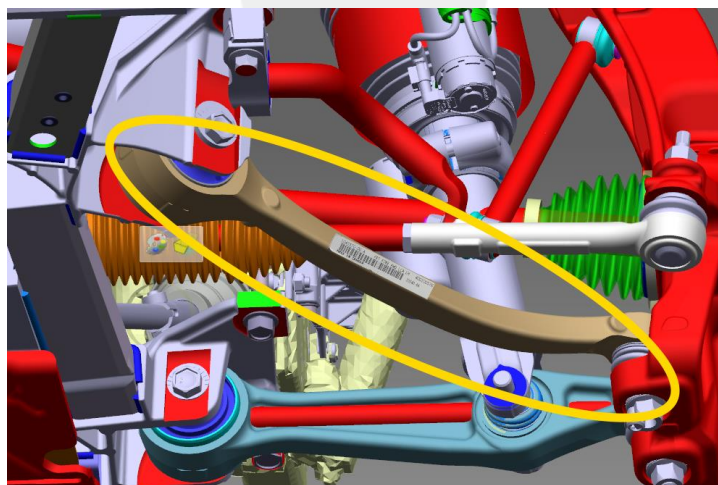
To improve durability, inspect the part numbers on the front fore links to determine which components need replacement, replace the affected components with updated ones, and then perform a 4-wheel alignment.

Correction Description	Correction	Time
SB-20-31-010 Not Applicable	S012031010	0.00
Inspect Front Fore Links; Replacement Not Necessary	S022031010	0.05
Inspect Front Fore Links; Replace Front Fore Links During Front Aft Link Replacement, Model S, Model X	S032031010	0.20
Inspect Front Fore Links; Replace Front Fore Links During Rear Upper Link Replacement, Model S	S042031010	0.50
Inspect Front Fore Links; Replace Front Fore Links Only And Perform 4 Wheel Alignment, Model X	S052031010	1.75
Inspect Front Fore Links, Replace Front Fore Links Only And Perform 4 Wheel Alignment, Model S	S062031010	1.85

	Part Number	Description	Quantity
<b>If Necessary</b>	1041570-00-B	FORE LINK ASSY, LH	1
	1041575-00-B	FORE LINK ASSY, RH	1
	1004358-00-C	NUT HF M14x1.50 [10] ZnNi NL INSERT	2
	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 <a href="#">Parts Catalog</a> .		
<b>Special Tools</b>	1090881-00-A	BRAKE PEDAL DEPRESSOR	
	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	
<b>Shop Supplies</b>	Wheel chocks		
	Laptop with Garage and Toolbox access		
	Paint pen		
	IPA wipes		

## Procedure

1. Raise the vehicle (refer to Service Manual procedure 10000205 – [Model S](#), [Model X](#)).
2. Inspect the Part Number (PN) on the LH and RH front fore links (Figure 1):



**Figure 1 – LH shown, RH similar (some components hidden for clarity)**

- If a front fore link PN matches one of the following PNs, do not replace that front fore link. Take note and then continue to step 3:
  - 1041570-00-B or later
  - 1041575-00-B or later



**NOTE:** End this procedure and use correction code S022031010 if none of the front fore links need replacement.

3. Remove the front wheels (refer to Service Manual procedure 34015001 – [Model S](#), [Model X](#)).
4. Remove the front aero shield panel (refer to Service Manual procedure 12030102 – [Model S](#), [Model X](#)).

5. Replace the LH and/or RH front fore links (refer to Service Manual procedure 31011202 – [Model S](#), [Model X](#)), but do not perform an alignment yet.



**NOTE:** If performing this bulletin in conjunction with SB-20-31-007, SB-20-31-008, or SB-20-31-009, finish this step, and then return to the other bulletin.

6. Install all components that were removed for access.
7. Drive the vehicle onto a 4 post lift.
8. Perform a 4-wheel alignment check to determine what adjustment is necessary (refer to one of the following Service Manual procedures: [Model S Coil Suspension](#), [Model S Air Suspension](#), [Model X](#)).

