 <b>Tesla, Inc.</b> Service Bulletin		<h2 style="margin: 0;">Inspect Front Knuckles And Front Upper Control Arms</h2>	
<b>SB-24-31-001</b> January 4, 2024			
<b>Classification</b>		<b>Section/Group</b>	<b>Mobile Service</b>
Campaign Bulletin		31 - Suspension	Cannot Perform
			Configuration
			All
<b>Model Year</b>	<b>Model</b>	<b>Country/Region</b>	<b>Build Location</b>
2023	Cybertruck	United States	Giga Austin
<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 non-safety-related condition and provides recommended technical diagnosis and repair procedures. Apply this procedure to the applicable vehicles.

## Condition

On some Cybertruck vehicles, the Front Upper Control Arms (FUCA) and/or knuckles may require replacement to address possible front suspension noise or separation of the front knuckle from the FUCA.

## Correction

Inspect the vehicle for symptoms related to the condition. If symptoms are present, replace the affected parts with updated parts.

Correction Description	Correction	Time
SB-24-31-001 Not Applicable	S012431001	0.00
Inspect Front Suspension; Suspension Parts Replacement Not Needed	S022431001	0.42
Inspect Front Suspension; Replace 1 Front Knuckle And 1 Front Upper Control Arm	S032431001	1.20
Inspect Front Suspension; Replace 2 Front Knuckles and 2 Front Upper Control Arms	S042431001	1.86

	Part Number	Description	Quantity
<b>Parts Required</b>	1111543-00-A	NUT, HF, M12-1.75, [10], ZNNI, PTP	2
<b>If Necessary</b>	1250310-00-E	FRONT KNUCKLE ASSEMBLY - LEFT HAND	1-2
	1250315-00-E	FRONT KNUCKLE ASSEMBLY - RIGHT HAND	1-2
	1250321-00-D	FRONT UPPER ARM ASSEMBLY - LEFT HAND	1-2
	1250326-00-D	FRONT UPPER ARM ASSEMBLY - RIGHT HAND	1-2
	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>	1081765-00-A	3/4 TON UNDERHOIST STAND	

## Procedure

1. Remove both front wheels (refer to Service Manual procedure [34015001](#)).
2. Raise the vehicle to the proper working height, and then engage the safety locks on the 2 post lift (refer to the Service Manual [procedure](#)).
3. Support the LH front lower control arm with the underhoist stand (Figure 1).

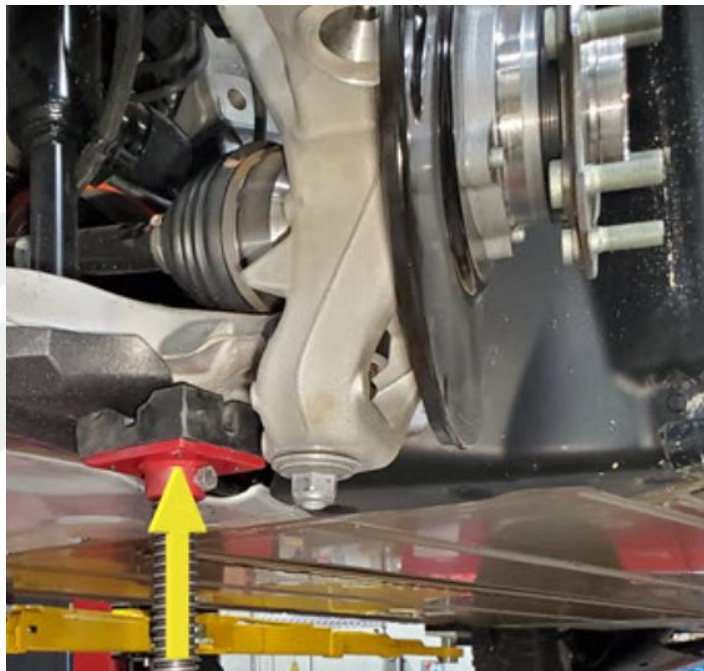


Figure 1

4. Remove and discard the nut that attaches the LH FUCA to the LH front knuckle (torque 85 Nm) (Figure 2).



Figure 2

5. Separate the LH FUCA and LH front knuckle enough so that their mating surfaces can be inspected.

**i** **TIP:** Adjust the underhoist stand as needed.

6. Inspect the mating surfaces of the LH FUCA and LH front knuckle.

- If the top of the knuckle has a cone-shaped recess (Figure 3) and the FUCA ball joint stud has an alignment cone (Figure 4), replacement is unnecessary. Position the parts for reinstallation and install a new nut that attaches the LH FUCA to the LH front knuckle (torque 85 Nm) (Figure 2).



Figure 3

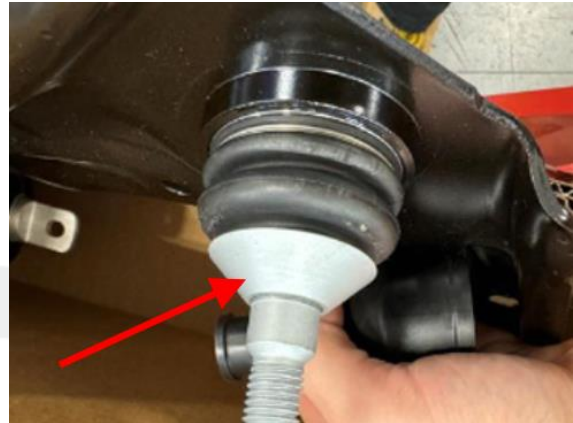


Figure 4

- If the top of the knuckle is flat (Figure 5), and the FUCA ball joint stud does NOT have an alignment cone (Figure 6), replacement is unnecessary. Position the parts for reinstallation and install a new nut that attaches the LH FUCA to the LH front knuckle (torque 85 Nm) (Figure 2).



Figure 5



Figure 6

- If either the knuckle or the FUCA have the cone-shaped feature (Figures 3 or 4) while the other part does *not* have the cone-shaped feature (Figures 5 or 6), the front knuckle and the FUCA require replacement. Take note and continue to the next step.

7. Repeat steps 3–6 on the RH front suspension.

8. Determine the next steps:

- If no front suspension components require replacement, discontinue this procedure and skip to step 9. Use correction code S022431001.
- If front suspension components require replacement, replace the parts as instructed in the Service Manual. If replacing one knuckle and FUCA, use correction code S032431001. If replacing both knuckles and FUCAs, use correction code S042431001.
  - Front Knuckle Assembly (refer to Service Manual procedure [3101055022](#))
  - Front Upper Control Arm (refer to Service Manual procedure [3101065012](#))

9. Reinstall all parts that were removed for access.