 <b>Tesla, Inc.</b> <b>Service Bulletin</b>		<b><i>Inspect Front Upper Control Arm To Steering Knuckle Bolts</i></b>	
<b>SB-20-31-012</b> November 12, 2020			
<b>Classification</b>		<b>Section/Group</b>	<b>Mobile Service</b>
Recall Bulletin		31 - Suspension	Can Perform (where permitted)
<b>Model Year</b>	<b>Model</b>	<b>Country/Region</b>	<b>Version</b>
2020	Model Y	United States, Canada	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

On certain Model Y vehicles, the Front Upper Control Arm (FUCA) to steering knuckle fastener for both LH and RH sides of the front suspension might be loose, or the FUCA to steering knuckle nut(s) might be missing altogether.

## Correction

Inspect the vehicle for symptoms related to the condition. If symptoms are present, tighten the fastener(s) that attach the FUCA to the steering knuckle, or add nut(s) and/or bolt(s), as necessary.

Correction Description	Correction	Time
Inspect FUCA To Steering Knuckle Fasteners; Bolts And Nuts Already Fastened To Specifications	S012031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Fasten LH Side, RH Already Fastened To Specifications	S022031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Fasten RH Side, LH Already Fastened To Specifications	S032031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Fasten LH And RH Sides	S042031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Add Nut To LH Side, RH Already Fastened To Specifications	S052031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Add Nut To RH Side, LH Already Fastened To Specifications	S062031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Add Nuts To LH And RH Sides	S072031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Reseat LH Side And Install New Bolt And Nut; RH Already Fastened To Specifications	S082031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Reseat RH Side And Install New Bolt And Nut; LH Already Fastened To Specifications	S092031011	0.15
Inspect FUCA To Steering Knuckle Fasteners; Reseat LH And RH Sides And Install New Bolts and Nuts	S102031011	0.15

	Part Number	Description	Quantity
Parts Required (if necessary)	1111145-00-A	NUT, HF, M10-1.5, [10], ZNNI, PTP	1-2
	1064834-00-B	BOLT, BH, M10-1.5x59, [10.9], ZNFL, SMAT	1-2

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the [Parts Catalog](#).

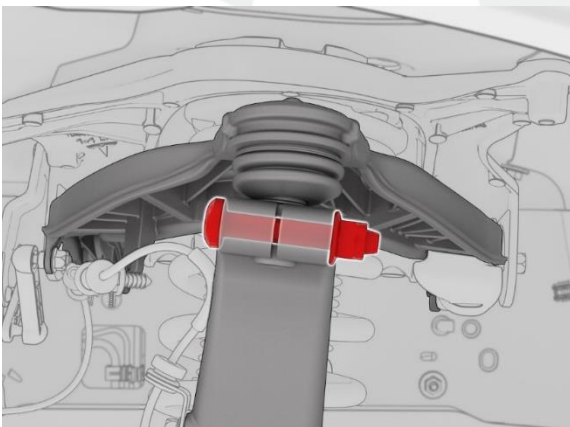
## Procedure

1. Raise and support the vehicle on a 2 post lift (refer to Service Manual procedure [10000205](#)).

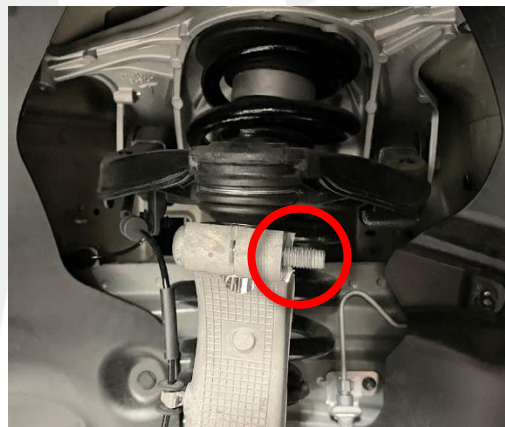


**NOTE:** For Mobile Service, use Service Manual procedure [10000605](#) to raise the front end of the vehicle.

2. Remove the LH and RH front wheels (refer to Service Manual procedure [34015001](#)).
3. Inspect the LH FUCA to steering knuckle joint:
  - a. Verify that the nyloc nut and bolt that attach the FUCA to the steering knuckle are present (Figures 1 and 2) and are torqued to 56 Nm.
  - b. Verify that the FUCA is fully seated and secured to the steering knuckle. Make sure that the FUCA stays secured to the knuckle by firmly lifting the FUCA up from the steering knuckle (Figures 3 and 4).



✓ Figure 1



✗ Figure 2 – Nyloc nut is missing



✓ Figure 3



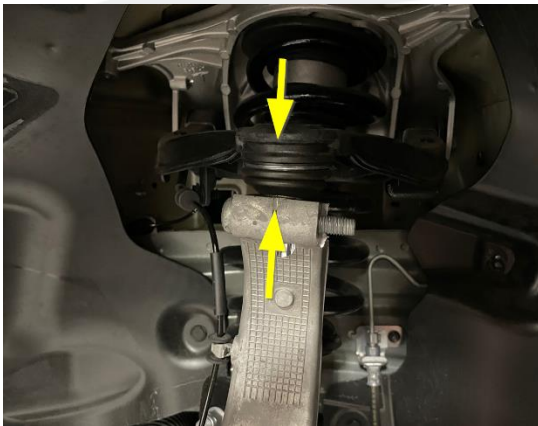
✗ Figure 4 – Joint not fully seated

4. Determine the following:

- If the FUCA to steering knuckle nyloc nut and bolt are present AND the joint is fully seated (Figure 1), skip to step 8.
- If the FUCA to steering knuckle nyloc nut is missing AND the joint is fully seated (Figure 2), skip to step 7.
- If the FUCA is NOT fully seated onto the steering knuckle (Figure 4) regardless if the nyloc nut and bolt are still attached, continue to the next step.

5. If the FUCA to steering knuckle nyloc nut and bolt are present:

- a. Remove and discard the nyloc nut.
- b. Compress the FUCA to steering knuckle joint (Figure 5).
- c. Remove and discard the bolt (Figure 6).



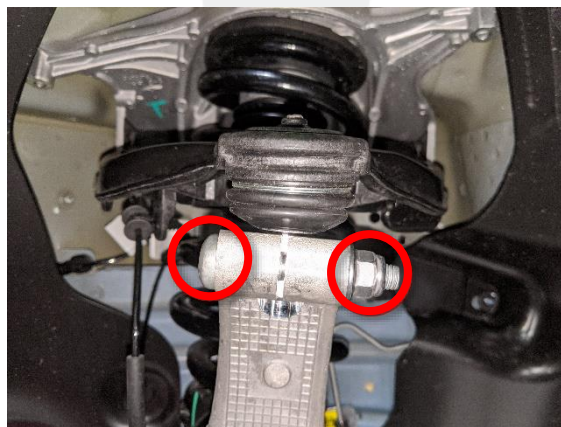
**Figure 5 – Nyloc nut already removed**



**Figure 6**

6. Compress the FUCA to steering knuckle joint, and then install a new bolt.

7. Install a new nyloc nut to the bolt (Figure 7).



**Figure 7**

8. Tighten the nyloc nut and bolt (torque 56 Nm) (Figure 7).

9. Repeat steps 3–8 for the RH side.

10. Install the LH and RH wheels (refer to Service Manual procedure [34015001](#)).

11. Lower the vehicle.