		Tesla, Inc. Service Bulletin		<i>Inspect and Replace Rear Lower Control Arms</i>	
SB-25-31-002 March 26, 2025		R1			
Classification		Section/Group		Mobile Service	Configuration
Repair Bulletin		31 - Suspension		Cannot Perform	All
Model	Model Year	Country/Region		Build Location	
Model S	2012–2021	Norway, Sweden		Fremont	
Model X	2015–2021				
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.					

Repair Bulletin: This repair bulletin provides instructions on addressing a possible customer concern regarding the operation of Tesla vehicles. These instructions should only be performed by trained professionals.

This Service Document supersedes SB-25-31-001, dated February 10, 2025. This new revision, R1, updates the Country/Region field and updates the replacement procedure. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

Condition

On some Model S and X vehicles built through 2021, the LH and RH rear lower control arm might be susceptible to water ingress which can lead to corrosion and possible cracks, and cause noise concerns or alignment issues.

Correction

If the vehicle is in Service and on a lift, inspect the vehicle for symptoms related to the condition. Install new plugs, or if symptoms are present, replace the rear lower control arms.

 **NOTE:** If symptoms are found, always replace both rear lower control arms.

Correction Description	Correction	Time	
		Model S	Model X
SB-25-31-002 Not Applicable	S012531002	0.00	0.00
Inspect LH And RH Rear Lower Control Arms, Replace Plugs	S022531002	0.06	0.06
Inspect And Replace LH And RH Rear Lower Control Arms (Including Alignment Check)	S032531002	1.62	1.56
Inspect And Replace LH And RH Rear Lower Control Arms (Including Alignment Check And Adjust)	S042531002	2.10	2.04

	Part Number	Description	Quantity
If Necessary	1027452-00-B	RR SUSP LCA PLUG	2
	1021417-00-A	For Model S: RR SUSP LCA ASSY FORGED, MODEL S	2
	1027455-00-A	For Model X: RR SUSP LCA ASSY FORGED, MODEL X	2

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

Inspection

1. Remove the upper plugs (x2) from both rear lower control arms (Figures 1 and 2).



Figure 1 – LH



Figure 2 – RH

2. Inspect the plugs (x2) for signs of water leakage and salt deposits (Figures 3–5).



Figure 3 – Pass



Figure 4 – Pass:
Limit of allowable salt deposits



Figure 5 – Fail

- If the plugs on both rear lower control arms show no signs (Figure 3) or minimal signs (Figure 4) of water leakage or salt deposits, skip to step 3.
- If the plug(s) on one or both rear lower control arms show signs of excessive salt deposit or rust, skip to [Replace Rear Lower Control Arms](#).

3. Use an inspection mirror and work light to inspect the plug holes in the casting of the rear lower control arms for signs of rust or water ingress (Figures 6–8).



Figure 6 – Pass



Figure 7 – Fail





Figure 8 – Fail

- If the holes in both rear lower control arms show no signs of rust, salt deposits, or water ingress (Figure 6), install new replacement plugs, and then discontinue this procedure. Use correction code S022531002.
- If new replacement plugs are not available, skip to [Replace Rear Lower Control Arms](#).
- If the hole(s) in one or both rear lower control arms show signs of rust or salt deposits (Figure 7), and/or evidence of water ingress (Figure 8), skip to [Replace Rear Lower Control Arms](#).

Replace Rear Lower Control Arms

Replace the LH and RH rear lower control arms, perform an Alignment Check, and a Full Alignment if necessary (refer to Service Manual procedure 31031102; [Model S](#), [Model X](#)).

 **NOTE:** Do not perform the test drive, but perform the Alignment Check directly after the repair.

 **NOTE:** Always replace both rear lower control arms.

- If the alignment was not adjusted after the repair, use correction code S032531002.
- If the alignment was adjusted after the repair, use correction code S042531002.