



# RRC-18-22-002-1: Retorque Knuckle to Upper Control Arm Fasteners, EDV

Rivian has decided that a defect which relates to motor vehicle safety exists in certain model year 2022 Rivian EDV vehicles, which, to date, have been delivered solely to Amazon. Some of the population may have been built with improperly torqued fasteners between the knuckles and front upper control arms. An improperly torqued knuckle fastener could cause excessive wheel camber, or, in rare instances, a separation, affecting the driver's ability to control the vehicle, and increasing the risk of a crash. Rivian will inspect and, as necessary, properly secure the knuckle fasteners in the affected vehicles. In the event that components require replacement, Rivian will replace components, as necessary.


<b>Document Type</b>	Safety Recall Bulletin
<b>Date</b>	October 7, 2022
<b>Affected Region(s)</b>	USA
<b>Affected Model(s)</b>	EDV
<b>Model Year(s)</b>	2022
<b>Approximate Build Dates</b>	December 2021 - September 2022
 Refer to the FSA Dashboard to determine if this document applies to a specific vehicle.	
<b>Vehicle System</b>	18 - Suspension
<b>Minimum Service Location</b>	Service Center

## Potentially Required Parts

Part Number	Quantity	Engineering Name	Service Name/Notes
PT00044840-D	1	ASSY - UPR CONTROL ARM; FRT; LH	Control Arm, Upper, Front, LH
PT00044838-D	1	ASSY - UPR CONTROL ARM; FRT; RH	Control Arm, Upper, Front, RH
PT00044843-E	1	KNUCKLE - FRT; LH	Knuckle, Front, LH
PT00044842-E	1	KNUCKLE - FRT; RH	Knuckle, Front, RH

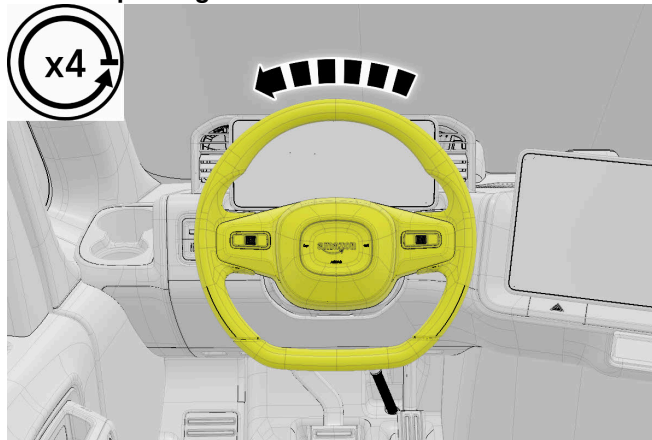
 **Attention:** The parts listed in this table are only for unique steps that are called out in this bulletin. Some sections of this bulletin might refer to Service Manual procedures which require additional parts. Always review the bulletin and all potentially related Service Manual procedures before ordering parts and beginning work.

## Inspection

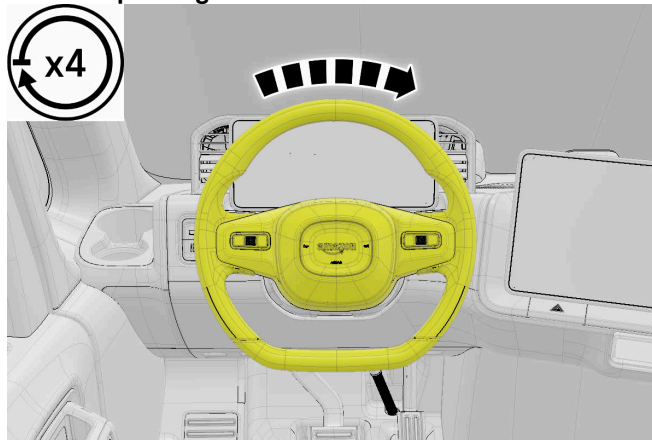
 **Important:** Perform this inspection on both the LH and RH sides of the vehicle. Do not continue to a different section until the inspection is complete on both sides.

1.

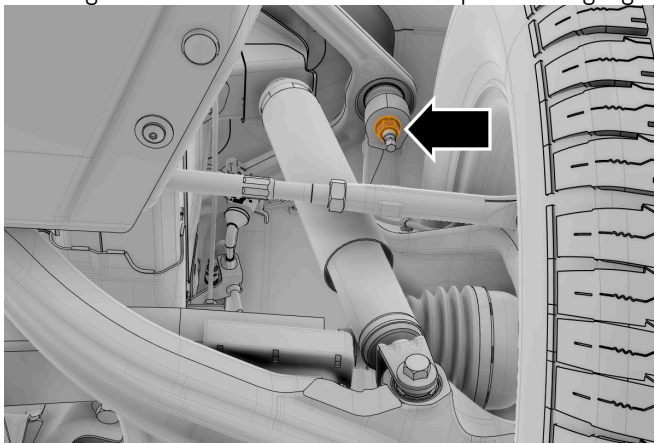
• When inspecting the LH side



• When inspecting the RH side



2. Working in the front of the wheelwell: Inspect the highlighted fastener.

**Note:** LH side shown.

- If the fastener is loose, or can be freely spun by hand, perform the [Replace Components](#) section on the affected side.
- Set a torque wrench to 20 Nm and attempt to tighten the fastener. If the fastener moves before 20 Nm is achieved, perform the [Replace Components](#) section on the affected side.
- If the fastener is not loose and does not move before 20 Nm is applied, perform the [Retorque Fastener](#) section on the affected side.



**Important:** Each side of the vehicle might require a different action, based on the outcome of this inspection.

## Replace Components



**Important:** Perform this section on either the LH side only, the RH side only, or both the LH and RH sides depending on the outcome of the [Inspection](#) section.

1. Replace: Knuckle, Front (refer to service manual procedure 181020010).
2. Replace: Control Arm, Upper, Front (refer to service manual procedure 181010010).
3. Reinstall all components that were removed for access and replace all non-reusable components. No additional work is required.

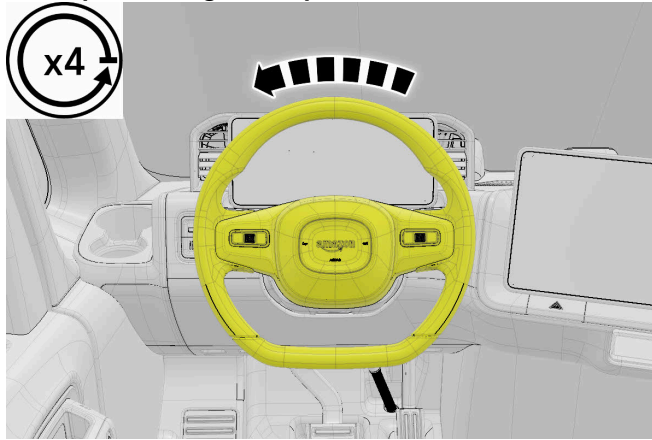
## Retorque Fastener



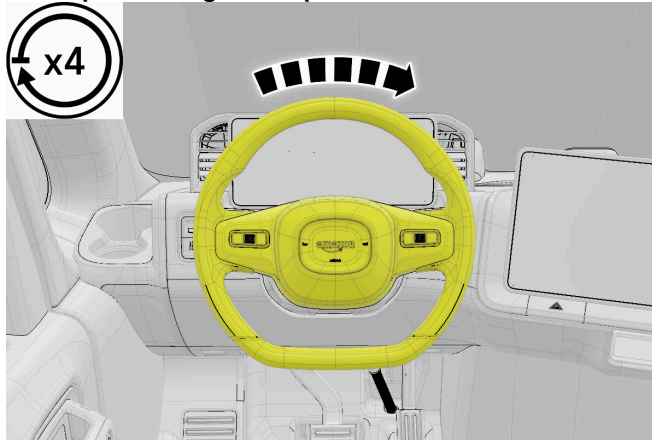
**Important:** Perform this section on either the LH side only, the RH side only, or both the LH and RH sides depending on the outcome of the [Inspection](#) section.

1.

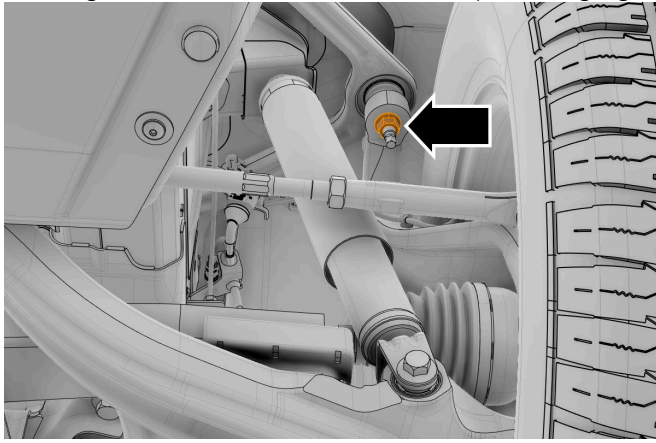
- When performing the steps in this section on the LH side





- When performing the steps in this section on the RH side

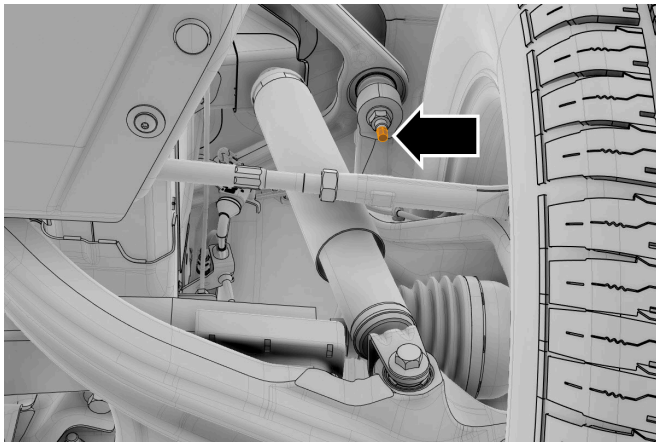


2. Working in the front of the wheelwell: Torque the highlighted fastener to 120 Nm.

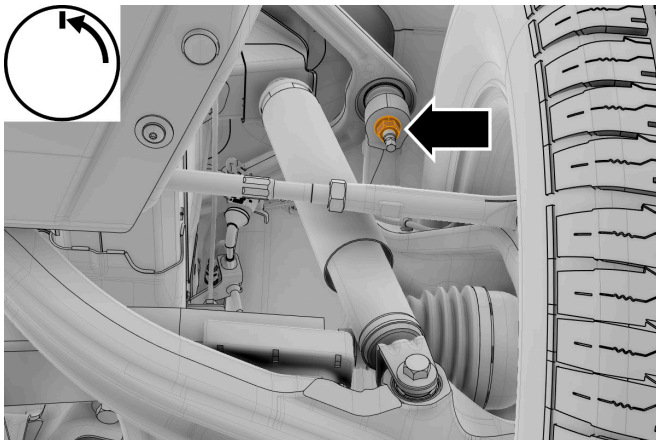


 **CAUTION:** When using a torque wrench with an offset socket, rotate the offset socket to exactly 90° from the body of the torque wrench. Other angles will cause an inaccurate torque measurement.

 **Note:** If necessary: Use a wrench to hold the highlighted area while installing the fastener.



3. Loosen the nut 1/4 turn.



4. Repeat step 2 in this section.

**Torque specifications in this section**

Step Number	Torque (Nm)
2	120

## Labor Codes

Labor Code	Description
RRC182200200	RRC-18-22-002-1 not applicable
RRC182200201	Inspect EDV upper control arm to knuckle fasteners; retorque LH and RH fasteners
RRC182200202	Inspect EDV upper control arm to knuckle fasteners; replace LH upper control arm and knuckle; thrust angle alignment check only; retorque RH fastener
RRC182200203	Inspect EDV upper control arm to knuckle fasteners; replace LH upper control arm and knuckle; thrust angle alignment check and adjust; retorque RH fastener
RRC182200204	Inspect EDV upper control arm to knuckle fasteners; replace RH upper control arm and knuckle; thrust angle alignment check only; retorque LH fastener
RRC182200205	Inspect EDV upper control arm to knuckle fasteners; replace RH upper control arm and knuckle; thrust angle alignment check and adjust; retorque LH fastener
RRC182200206	Inspect EDV upper control arm to knuckle fasteners; replace LH and RH upper control arms and knuckles; thrust angle alignment check only
RRC182200207	Inspect EDV upper control arm to knuckle fasteners; replace LH and RH upper control arms and knuckles; thrust angle alignment check and adjust
Contact <a href="mailto:ServiceDocumentFeedback@rivian.com">ServiceDocumentFeedback@rivian.com</a> regarding labor codes and document content.	