


RRC-18-22-001-1: Retorque Knuckle to Upper Control Arm Fasteners, R1T and R1S

Rivian has decided that a defect which relates to motor vehicle safety exists in certain model year 2022 Rivian R1T and R1S vehicles. Some of the population may have been built with improperly torqued fasteners between the knuckles and front upper control arms. An improperly torqued 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.

Document Type	Safety Recall Bulletin
Date	October 7, 2022
Affected Region(s)	USA
Affected Model(s)	R1T, R1S
Model Year(s)	2022
Approximate Build Dates	August 2021 - September 2022
 Refer to the FSA Dashboard to determine if this document applies to a specific vehicle.	
Vehicle System	18 - Suspension
Minimum Service Location	Service Center

Potentially Required Parts

Part Number	Quantity	Engineering Name	Service Name/Notes
PT00001853-H	1	ASSY - UPR CONTROL ARM; FRT; LH	Control Arm, Upper, Front, LH
PT00001857-H	1	ASSY - UPR CONTROL ARM; FRT; RH	Control Arm, Upper, Front, RH
PT00001859-H	1	KNUCKLE_FR_LH	Knuckle, Front, LH
PT00001860-H	1	KNUCKLE_FR_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.

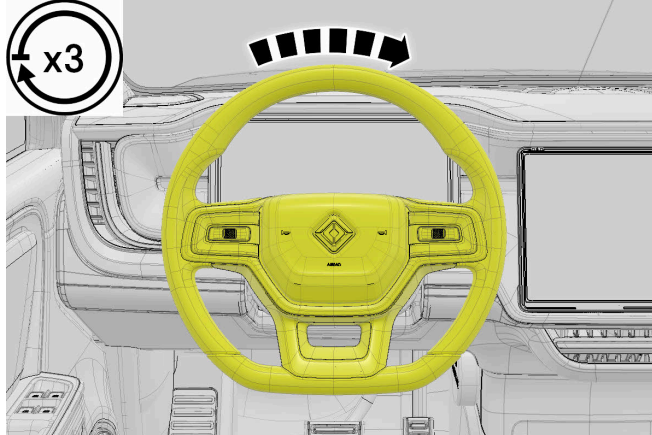
Inspection

! **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.

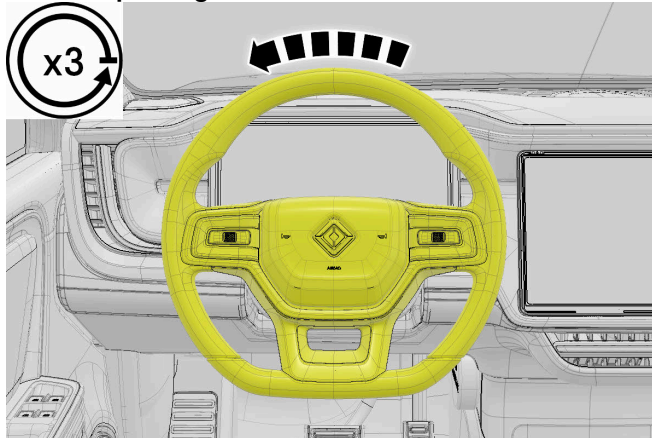
1. On the center display: Set the ride height to highest.

2.

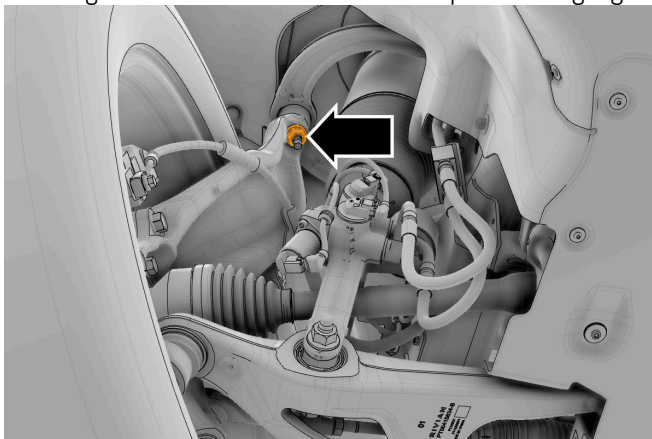
• When inspecting the LH side



• When inspecting the RH side



3. Working in the rear 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.

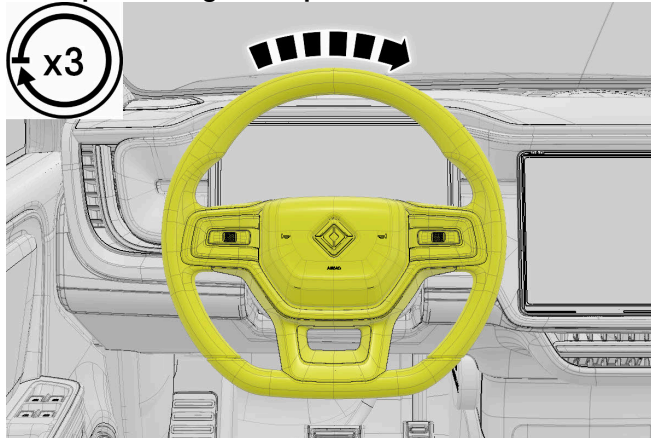
1. Replace: Knuckle, Front (refer to service manual procedure 181020010).
2. Replace: Control Arm, Upper, Front (refer to service manual procedure 181010010).
3. Reinstall all components that were removed for access and replace all non-reusable components. No additional work is required.

Retorque Fastener

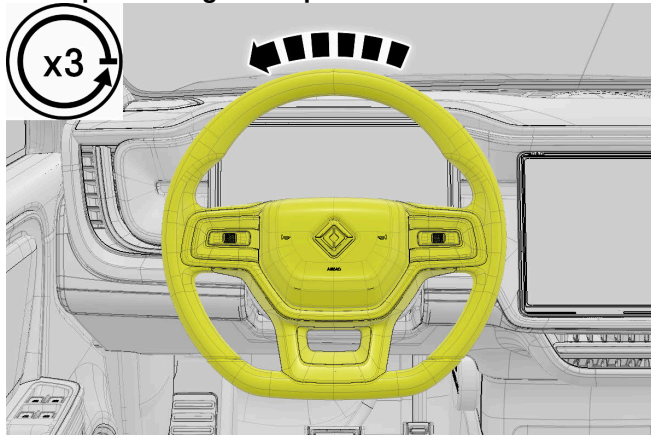
! **Important:** Perform this section on either the LH side only, the RH side only, or both the LH and RH sides depending on the outcome of the [Inspection](#) section.

1. On the center display: Set the ride height to highest.
- 2.

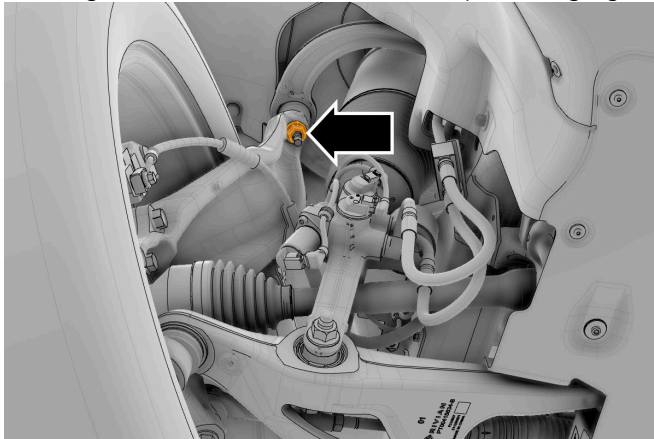
• When performing the steps in this section on the LH side





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



3. Working in the rear of the wheelwell: Torque the highlighted fastener to 120 Nm.

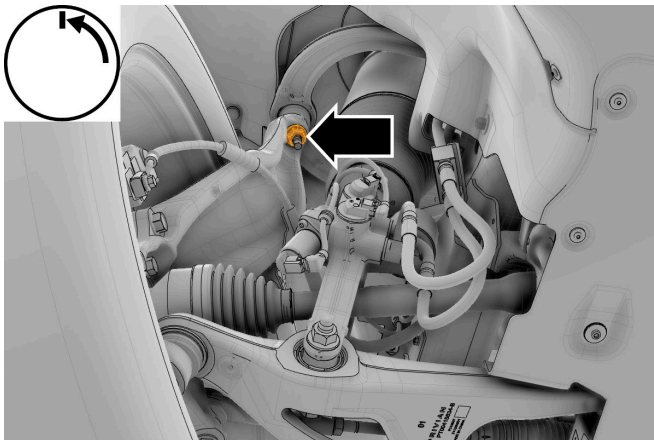


 **CAUTION:** When using a torque wrench with an offset socket, rotate the offset socket to exactly 90° from the body of the torque wrench. Other angles will cause an inaccurate torque measurement.

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



4. Loosen the nut 1/4 turn.



5. Repeat step 3 in this section.

6. On the center display: Set the ride height to standard.

Torque specifications in this section

Step Number	Torque (Nm)
3	120

Labor Codes

Labor Code	Description
RRC182200100	RRC-18-22-001-1 not applicable
RRC182200101	Inspect R1 upper control arm to knuckle fasteners; retorque LH and RH fasteners
RRC182200102	Inspect R1 upper control arm to knuckle fasteners; replace LH upper control arm and knuckle; four wheel alignment check only; retorque RH fastener
RRC182200103	Inspect R1 upper control arm to knuckle fasteners; replace LH upper control arm and knuckle; four wheel alignment check and adjust; retorque RH fastener
RRC182200104	Inspect R1 upper control arm to knuckle fasteners; replace RH upper control arm and knuckle; four wheel alignment check only; retorque LH fastener
RRC182200105	Inspect R1 upper control arm to knuckle fasteners; replace RH upper control arm and knuckle; four wheel alignment check and adjust; retorque LH fastener
RRC182200106	Inspect R1 upper control arm to knuckle fasteners; replace LH and RH upper control arms and knuckles; four wheel alignment check only
RRC182200107	Inspect R1 upper control arm to knuckle fasteners; replace LH and RH upper control arms and knuckles; four wheel alignment check and adjust
Contact ServiceDocumentFeedback@rivian.com regarding labor codes and document content.	