

RCA-18-22-001-1: Front Damper Reinforcement Plate Inspection and Installation

Rivian is initiating a customer satisfaction campaign for some model year 2022 R1T vehicles that may have been built without the damper reinforcement plate on top of the front damper. Without the damper reinforcement plate, the suspension loads may damage the shock tower over time. A damaged shock tower may result in additional suspension travel, a reduction in suspension stiffness, and abnormal noise noticeable to the customer. Rivian will inspect all affected vehicles. If a vehicle is found without a damper reinforcement plate, a new part will be installed. Rivian is launching this campaign for customer satisfaction and to ensure the quality of Rivian vehicles.

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

Potentially Required Parts

Part Number	Quantity	Engineering Name	Service Name/Notes
PT00220567-B	1	PLATE - SHOCK TOWER LH	Reinforcement Plate, Shock Tower, LH
PT00220568-B	1	PLATE - SHOCK TOWER RH	Reinforcement Plate, Shock Tower, 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.

Potentially Required Special Tools:

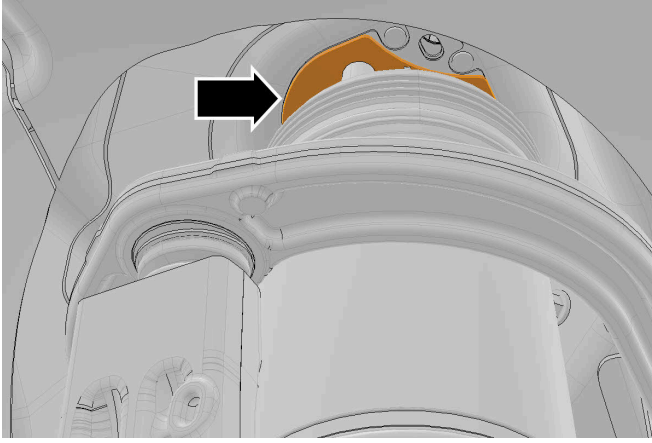
Tool Number	Tool name
NCT05389333	Kit, ride height torque tool (front and rear)

⚠ Attention: The special tools 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 special tools. Always review the bulletin and all potentially related Service Manual procedures before beginning work.

Inspection


1. Set the ride height to highest.


2. On both sides: Check for the presence of a front damper reinforcement plate.




- If the component is present on both sides: No additional work is required.
- If the component is not present on either or both sides, continue to the [Reinforcement Plate Installation](#) section.

Reinforcement Plate Installation

 **Warning:** Do not loosen any hydraulic suspension fittings while the vehicle is on. The fluid could be under high pressure.

 **CAUTION:** If the air suspension system is depressurized, do not allow the vehicle to rest on its own weight until the air springs have been re-filled.

1. Raise and Support Vehicle (refer to service manual procedure 981020017).
2. Using RiDE: Depressurize the hydraulic suspension to less than 1 Bar.

 **CAUTION:** Do not lower the vehicle until the hydraulic suspension has been re-pressurized.

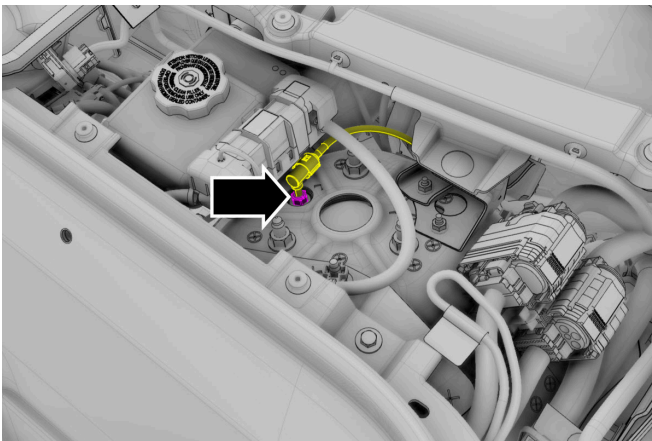
3. Depressurize the air suspension.

 **CAUTION:** Do not lower the vehicle until the air springs have been re-filled.

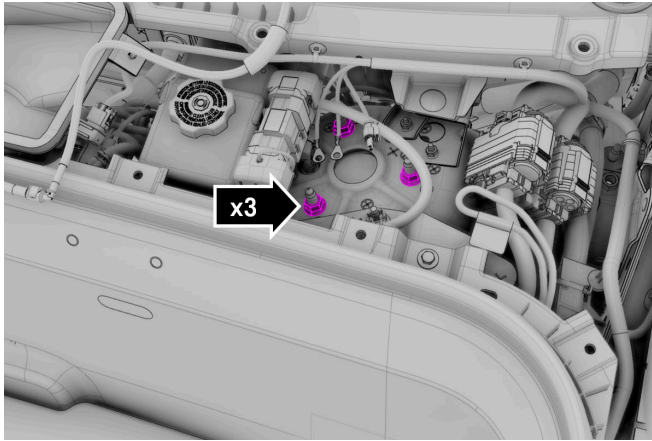
4. Remove: Panel, Access, Underhood, Rear (refer to service manual procedure 647916010).

On the affected side(s):

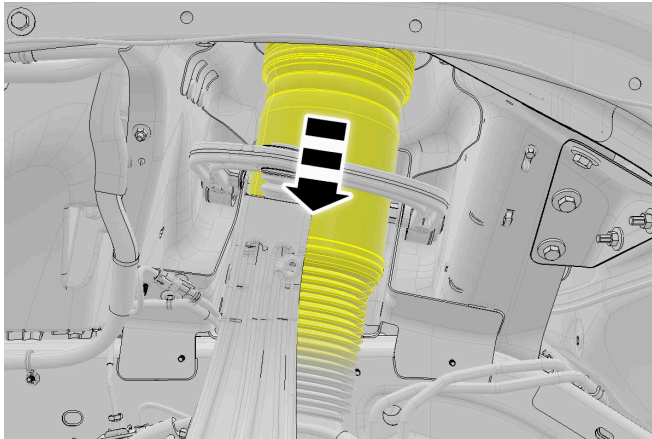
- 5.




6.



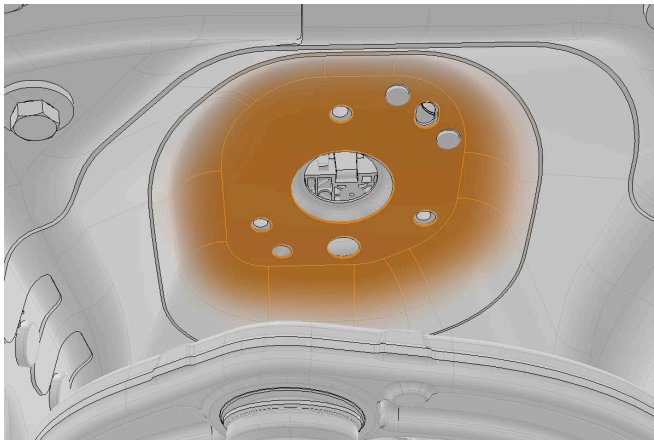
7.



 **CAUTION:** Do not manually extend the component. Do not apply air pressure to the component until it is fully secured in the vehicle.

8.

Check the highlighted area(s) for damage.

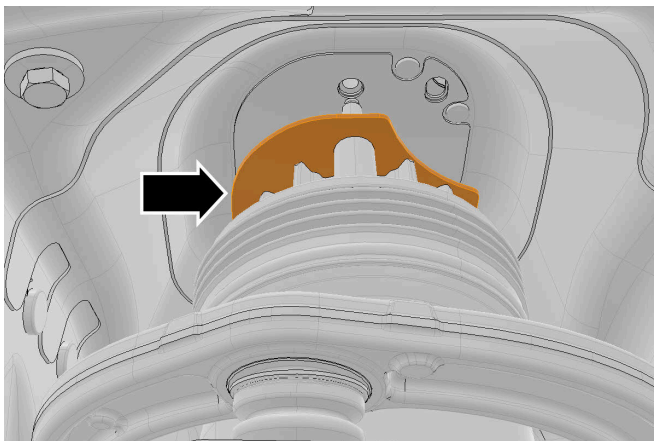



 **Note:** Shown with components removed for clarity.

- If there is evidence of damage: Escalate for diagnostic assistance.
- If there is no evidence of damage, continue to the next step.

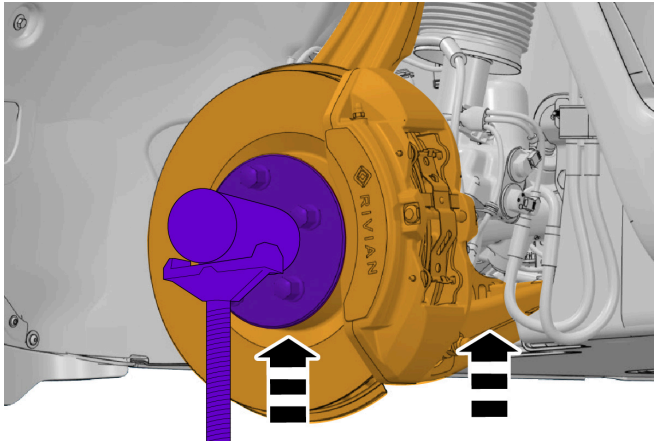
9.


Install:



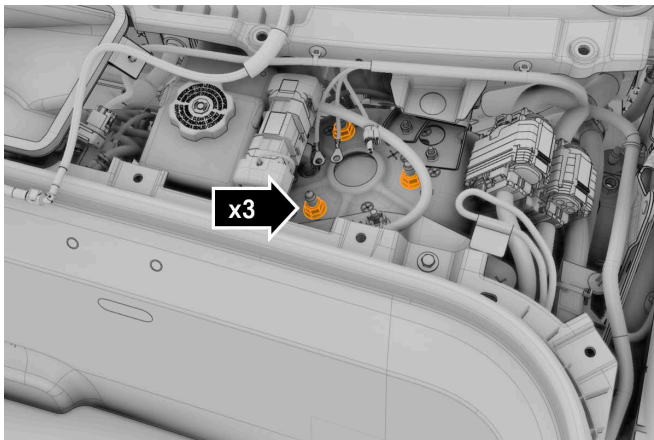
 **CAUTION:** Do not manually extend the damper. Do not apply air pressure to the damper until it is fully secured in the vehicle.

10.
Using the ride height torque tool:



 **Note:** Refer to the instructions for the tool.

11.
Install:



12. Reinstall all components that were removed for access and replace all non-reusable components.
13. Pressurize the air suspension.
14. Pressurize the hydraulic suspension.

Torque specifications in this section

Step Number	Torque (Nm)
5	5.5
11	63

Labor Codes

Labor Code	Description
RCA182200100	RCA-18-22-001 not applicable
RCA182200101	Inspect front damper reinforcement plates
RCA182200102	Inspect front damper reinforcement plates; install LH plate
RCA182200103	Inspect front damper reinforcement plates; install RH plate
RCA182200104	Inspect front damper reinforcement plates; install LH and RH plates
Contact ServiceDocumentFeedback@rivian.com regarding labor codes and document content.	