

TSN01349-100-A: 25 PIECE 3/8 DRIVE | PASS THROUGH SOCKET KIT | TOOL USE INSTRUCTIONS

- Perform installation in the opposite order of the disassembly steps.
- Refer to Service Manual for required torque values.

PURPOSE:

USED TO REMOVE UPPER BALL JOINT NUT ON R1 BY HOLDING STUD FROM SPINNING WHILE BREAKING NUT LOOSE.

*NOTE THAT 13/16 SOCKET IS USED IN PLACE OF A 21MM.



LABOR CODE:

181099427 Front Suspension Other Labor (0.5 Hours)

181099527 Front Suspension Other Labor (1 Hour)

OTHER TOOLS REQUIRED:

TSN00365-102-A: BALL JOINT SEPERATOR

TSN00061-100-A: BREAKER BAR, 24"

TSN00118-100-A: SOCKET, 3/8" DRIVE, DEEP 10MM



TSN00078-100-A: 1/2" TO 3/8" SQUARE DRIVE ADAPTER

PRIOR TO USAGE:

INSPECT THE NUT ON VEHICLE TO IDENTIFY IF IT IS AN UPDATED PART.

⚠ CAUTION: Do not perform procedure if any equipment is missing or damaged. Contact tooling team with any questions or requests for replacement parts. ServiceToolEngineering@rivian.com

TOOL USAGE:

STEP	DIRECTIONS	VISUAL AID
1	<ul style="list-style-type: none">• Turn steering wheel so that wheel on side of work being performed is pointed inwards.	 A close-up photograph of a vehicle's front wheel and tire. The tire is black with a visible tread pattern. The wheel is a multi-spoke alloy design, and a yellow brake caliper is visible behind the spokes. The wheel is mounted on a dark-colored vehicle body.
2	<ul style="list-style-type: none">• Raise vehicle to desired height and remove wheel/tire assembly.	 A close-up photograph of a vehicle's suspension and steering components. The image shows a metal control arm, a coil spring, and a shock absorber. The components are metallic and show some signs of wear and dirt. The background is dark, suggesting the vehicle is in a workshop or garage.

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- Use the 13/16" (substitute for 21mm) socket with pass-through wrench to use on the backside of the steering knuckle, on the upper ball joint nut.



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- Place the 13/16" socket/pass-through wrench assembly on the upper ball-joint nut.
- Place the 10mm deep socket, with 1/2" to 3/8" square adapter, connected to the 24" breaker-bar through pass through wrench opening, onto the ball joint threaded stud end.
- Turn the breaker-bar clockwise to break the ball joint nut free from the stud.
- Once broken free, rotate the ratcheting pass-through wrench counterclockwise to fully remove the 21mm nut.



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- Once the nut is removed, you may use a ball joint separator to break apart the upper arm from the steering knuckle assembly, if desired.



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- Updated and or new parts such as new type upper-ball-joint nuts may be required for reinstallation. Refer to service manual and or service bulletins.

