

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER TSN01714-300

TITLE HALF SHAFT REMOVAL KIT

REV - DATE REV 1 - 3/26/2026

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TOOL FUNCTION

KIT USED TO REMOVE HALF SHAFTS FROM THE VEHICLE AT THE DRIVE UNIT INTERFACE.



LABOR CODES

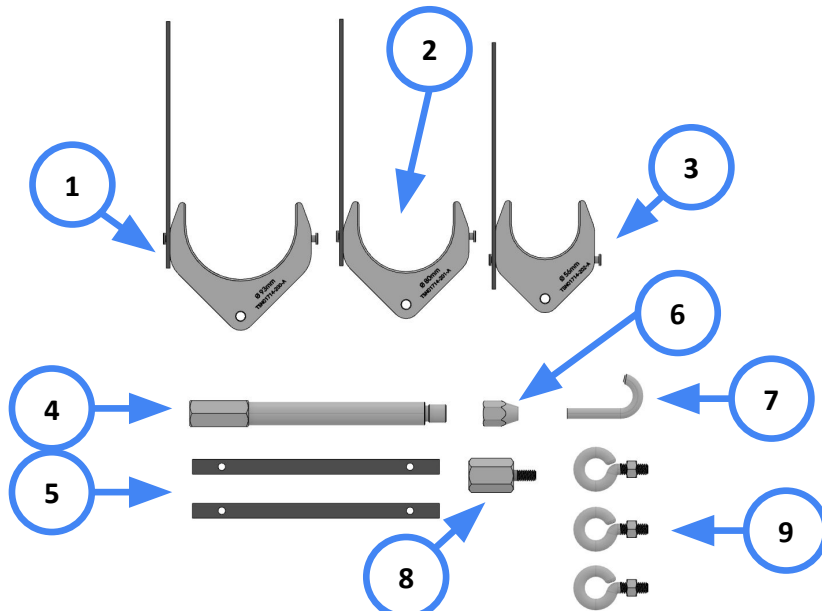
- 421010010 - Drive Unit, Rear (Remove and Replace)
- 426410110 - Halfshaft, Rear, RH (Remove and Replace)
- 426410010 - Halfshaft, Rear, LH (Remove and Replace)
- 386410110 - Halfshaft, Front, RH (Remove and Replace)
- 386410010 - Halfshaft, Front, LH (Remove and Replace)

OTHER TOOLS REQUIRED

TSN00363-100-A - SLIDE HAMMER, BASIC, 10 LB.

COMPONENT GUIDE

ITEM	QTY	RIVIAN TOOL ID	DESCRIPTION
1	1	TSN01714-200-A	HALF SHAFT REMOVAL TOOL, 93MM DIA
2	1	TSN01714-201-A	HALF SHAFT REMOVAL TOOL, 80MM DIA
3	1	TSN01714-202-A	HALF SHAFT REMOVAL TOOL, 56MM DIA
4	1	TSN01714-203-A	SLIDE HAMMER EXTENSION, 5/8"-18
5	2	TSN01714-204-A	RETENTION STRAP
6	1	JR-54	DUPLEX NUT
7	1	JR-55	UTILITY HOOK
8	1	3762A6	THREAD ADAPTER (OTC 8005)
9	3	9489T131	3/8-16 EYEBOLT







**WARNING**

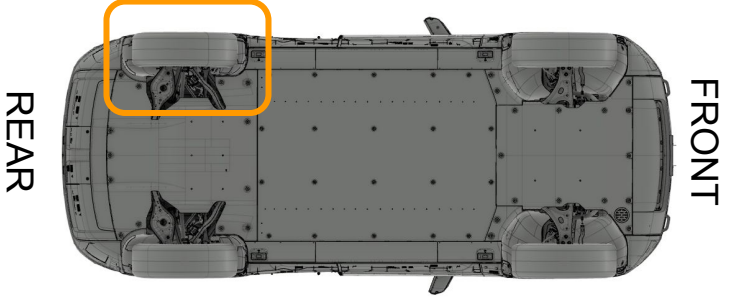
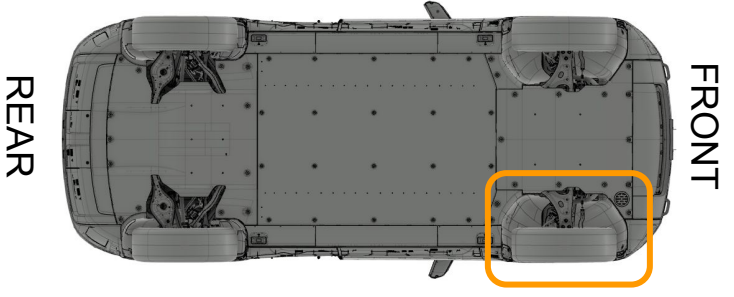
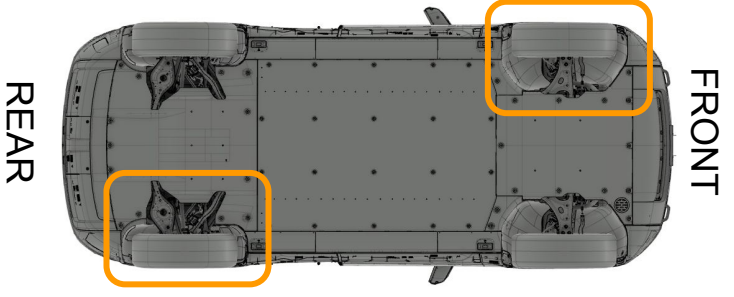
Do not perform procedure if tool is damaged or missing parts. Consult the Rivian Service Tool Catalog for replacement components.

Failure to follow guidelines outlined in this document could result in injury and/or property damage.


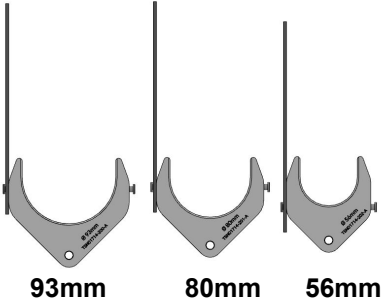

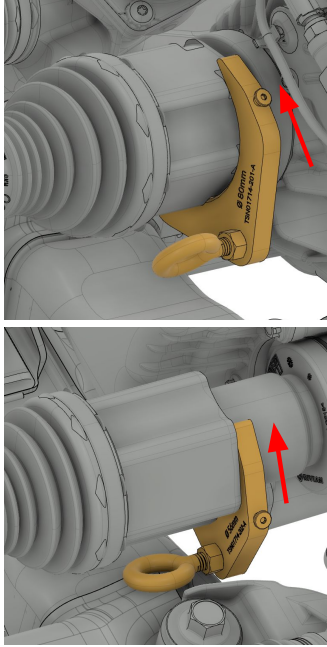
SAFETY GUIDELINES

1	Wear eye protection and closed toed shoes during use to protect against flying objects and debris.	
2	Keep hands and fingers clear of slide hammer and other pinch points during use.	
3	Refer to slide hammer tool use instructions and/or manufacturer user manual for detailed instructions and warnings.	
4	Tool is intended for use on the Rivian vehicles and procedures described in this document. Use for other applications may result in injury and/or property damage.	

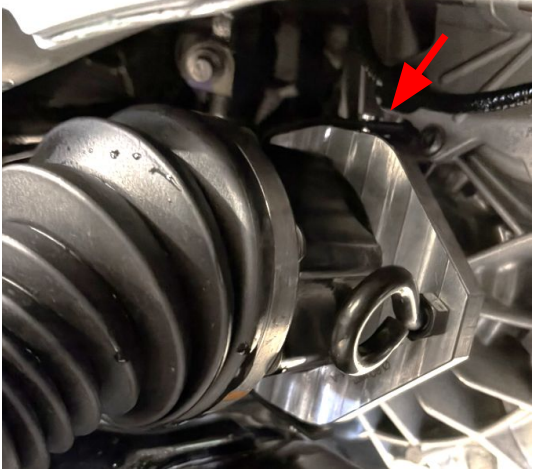
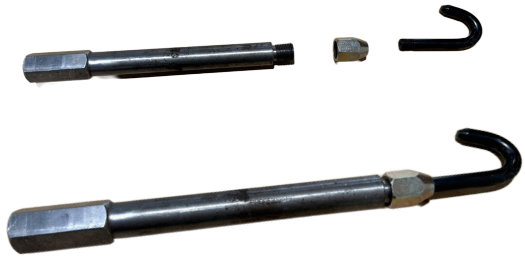




<p>FORK SIZE TOOL ID</p>	<p>R2 HALF SHAFT COMPATIBILITY</p>
<p>93mm TSN01714-200-A</p>	
<p>80mm TSN01714-201-A</p>	
<p>56mm TSN01714-202-A</p>	


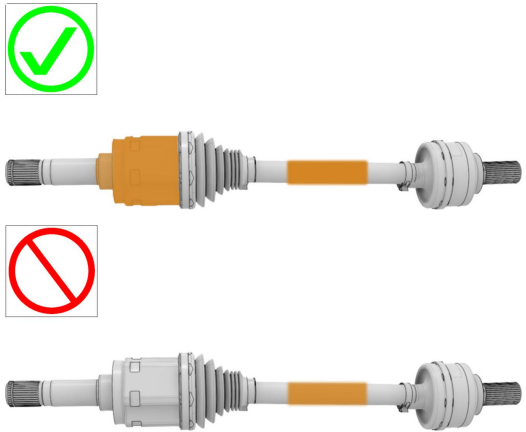


<p>1</p>	<p>Prep vehicle for half shaft removal.</p> <p>Refer to service manual for detailed procedure - LABOR CODES</p>	
<p>2</p>	<p>Refer to the COMPATIBILITY GUIDE to determine which size removal tool is compatible with the half shaft being extracted.</p>	
<p>3</p>	<p>Install 1X eye bolt (ITEM 9) to the fork tool.</p> <p>Snug the provided nut against the body of the tool to lock eye bolt in the preferred orientation.</p>	
<p>4</p>	<p>For GROOVED half shafts:</p> <p>Engage the tips of the removal tool with the half shaft grooves, then slide the toward the half shaft until tool is fully seated in the groove.</p> <p>For SHOULDERED half shafts:</p> <p>Slide the fork tool directly behind the half shaft shoulder and seat against the smaller diameter of the half shaft.</p>	



<p>5</p>	<p>Wrap retention strap around the half shaft.</p> <p>Stretch the open end of the strap over the button on the removal tool to secure the tool in place.</p>	
<p>6</p>	<p>Install duplex nut (ITEM 6) to the slide hammer extension (ITEM 4).</p> <p>Install utility hook (ITEM 7) to the other end of the duplex nut.</p> <p>Tighten hook by hand until secure.</p>	
<p>7</p>	<p>Install the extension and hook assembly to the 10 lb slide hammer (TSN00363-100-A)</p>	
<p>8</p>	<p>Loop the hook onto the eyebolt installed in the removal tool.</p> <p>Align the slide hammer as close to the half shaft as possible, then apply GENTLE blows to the slide hammer to unseat the retaining clip and partially extract the half shaft.</p>	



<p>9</p>	<p>For severely stuck half shafts:</p> <p>Remove tool from the half shaft and replace the eyebolt with the OTC thread adapter (ITEM 8)</p> <p>Thread slide hammer + extension to the thread adapter and re-attempt extraction.</p> <p>NOTE</p> <p>Additional parts may need to be removed from the vehicle to gain tool access when using this setup.</p>	
<p>10</p>	<p>Once the half shaft is partially extracted from the drive unit, unhook and set aside the slide hammer.</p> <p>Use two hands to grip the half shaft in the locations shown and fully remove from the vehicle.</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin-top: 10px;"> <p>IMPORTANT</p> <p>DO NOT pull from the shaft or wheel hub end of the half shaft alone. This may result in disjoint and permanently damage.</p> </div>	
<p>11</p>	<p>Detach retaining strap and remove the tool from the half shaft.</p>	



BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect retention straps and tool surfaces for signs of extreme wear and tear. Refer to SPARE PARTS to order replacement parts as needed.	Before each use
Place all components in case when not in use	After each use

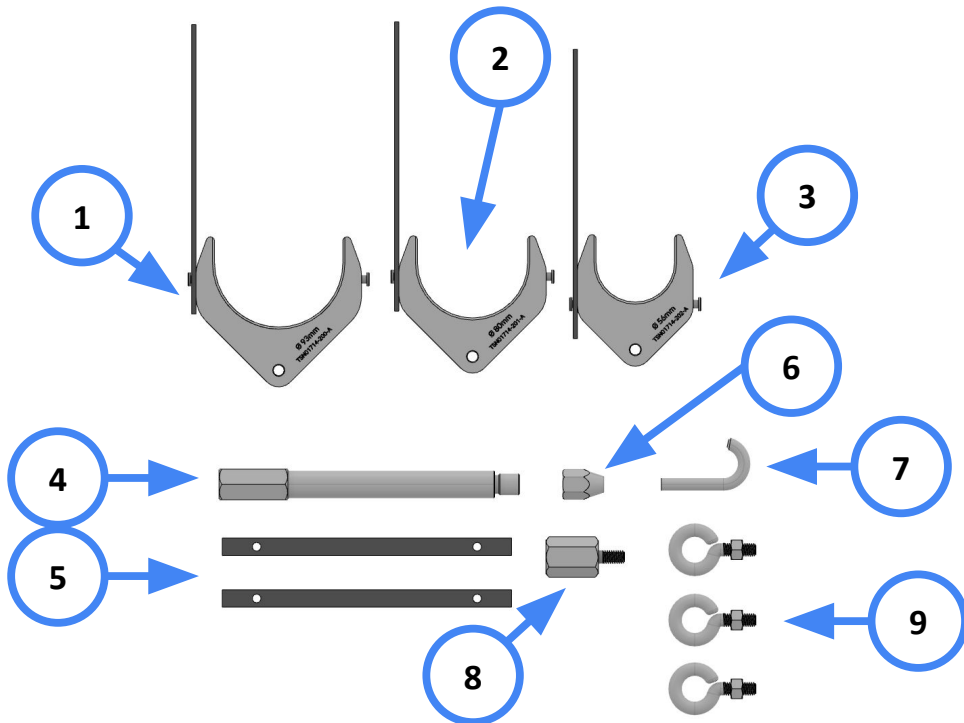
TROUBLESHOOTING

PROBLEM	SOLUTION
Tool is slipping out of the groove and/or hook	Too much force is being used on the slide hammer - try using lighter blows. If still unsuccessful, thread removal tool directly to the slide hammer using the provided adapter.
Strap doesn't hold the tool in place	Strap may be over-stretched or worn out. Replace using the provided spares, and refer to SPARE PARTS if additional straps are needed.



FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER	RIVIAN TOOL ID
1	HALF SHAFT REMOVAL TOOL, 93MM DIA	SERVICE TOOL PUNCHOUT	TSN01714-200-A
2	HALF SHAFT REMOVAL TOOL, 80MM DIA	SERVICE TOOL PUNCHOUT	TSN01714-201-A
3	HALF SHAFT REMOVAL TOOL, 56MM DIA	SERVICE TOOL PUNCHOUT </td <td>TSN01714-202-A</td>	TSN01714-202-A
4	SLIDE HAMMER EXTENSION, 5/8"-18	SERVICE TOOL PUNCHOUT	TSN01714-203-A
5	RETENTION STRAP	SERVICE TOOL PUNCHOUT	TSN01714-204-A
6	DUPLEX NUT	MORGAN / AMAZON	JR-54
7	UTILITY HOOK	MORGAN / AMAZON	JR-55
8	THREAD ADAPTER (OTC 8005)	MCMMASTER-CARR	3762A6
9	3/8-16 EYEBOLT	MCMMASTER-CARR	9489T131





WARNING

Risk of minor injury

IMPORTANT

Instructions to successfully complete a task



CAUTION

Risk of Pinch Point

- keep hands and fingers clear of all moving parts.

NOTE

Useful information



PPE REQUIRED

- eye protection
- closed toe shoes

REV	DATE	CHANGE DESCRIPTION
1	3/26/2026	Initial release

