

## TOOL USE INSTRUCTION

**RIVIAN**

TOOL NUMBER TSN00254-100-A

TITLE SOFT GRIP SPOON SEAL REMOVAL TOOL, SHORT

REV - DATE REV A - 03/06/2025

### CONTENTS

[OVERVIEW](#)

[SAFETY](#)

[INITIAL SETUP](#)

[TOOL USE INSTRUCTION](#)

[MAINTENANCE & STORAGE](#)

[SERVICE & REPLACEMENT PARTS](#)

[TROUBLESHOOTING](#)

[SYMBOL GLOSSARY](#)

### TOOL FUNCTION

This tool is used to remove axle seals on Origin drive units.



## OVERVIEW

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### SPECIFICATIONS

Weight: 23 g

Overall Dimensions: Length - 135mm

### LABOR CODES

381050010 - Seal, Output, Front Drive Unit, LH (Remove and Replace)

381050110 - Seal, Output, Front Drive Unit, RH (Remove and Replace)

421050010 - Seal, Output, Rear Drive Unit, LH (Remove and Replace)

421050110 - Seal, Output, Rear Drive Unit, RH (Remove and Replace)

### OTHER TOOLS REQUIRED

N/A





**WARNING**

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



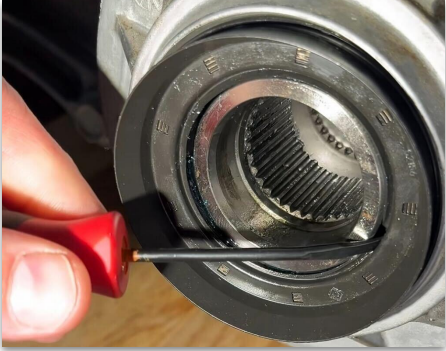

Failure to follow guidelines outlined in this document could result in injury and/or property damage.

**SAFETY GUIDELINES**

1	PPE Required - Eye Protection, Gloves, Closed Toe Shoes.	A blue circle containing a white silhouette of a person's head and shoulders, wearing safety goggles.
2	Risk of - Permanent damage to the output shaft, housing and or tool. Tool is intended for use with specific service operations only. Refer to Labor Codes and Rivian Service Manual.	A black triangle with a black border and a black exclamation mark inside.
3	Danger - Vehicle must be securely placed on lift to perform repair.	A red triangle with a red border and a red exclamation mark inside.



## TOOL USE INSTRUCTION

1	<p>Insert the end of tool at the outer lip. Insert the tool only far enough to be able to pry on the metal case of the seal.</p> <p><b>IMPORTANT</b></p> <p>Inserting the tool too far can cause damage to the drive unit housing, resulting in leaks.</p>	 A close-up photograph showing a red-handled pry tool being inserted into the outer lip of a metal seal. The tool is positioned at the edge of the seal, ready to pry it away from the housing.
2	<p>Pry on the seal gently till the seal starts to move. Move the tool into other positions around the circumference in order to evenly work the seal out.</p> <p><b>IMPORTANT</b></p> <p>Avoid the tool making contact with the sealing surface of the output gear bore to prevent damage.</p>	  Two close-up photographs showing the prying process. The top image shows the tool being moved around the circumference of the seal. The bottom image shows the tool being used to pry the seal, with a warning to avoid contact with the output gear bore.
3	<p>Pry until seal releases from housing.</p>	 A close-up photograph showing the seal being removed from the housing. The seal is being lifted away from the housing, revealing the output gear bore.



**BASIC MAINTENANCE GUIDE**

TASK	FREQUENCY
Inspect tool for damage.	Before Each Use
Return to designated spot in technician toolbox.	After Each Use



## SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	Soft Grip Spoon Seal Removal Tool	Snap-On - SGSR2AR



## TROUBLESHOOTING

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PROBLEM	SOLUTION
Output seal is difficult to release.	Work seal out gradually from different positions around the seal.





**DANGER**

Risk of electrocution or electric shock



**WARNING**

Risk of minor injury



**DANGER**

Risk of major injury such as

- fire
- chemical or poison
- crushing / maiming
- death



**CAUTION**

Risk of

- damage to vehicle or property
- data disruption
- voiding warranty



**CAUTION**

Risk of Pinch Point

- keep hands and fingers clear of all moving parts.



**PPE REQUIRED**

**IMPORTANT**

Instructions to successfully complete a task

**NOTE**

Useful information

**REVISION LOG**

REV	DATE	CHANGE DESCRIPTION
A	11/08/2024	Initial release