

TOOL USE INSTRUCTION

RIVIAN	TOOL NUMBER	TSN01165-300-A
	TITLE	HALF SHAFT SEAL PROTECTION TOOL
	REV - DATE	REV A - 01/21/2025

CONTENTS

[OVERVIEW](#)

[SAFETY](#)

[INITIAL SETUP](#)

[TOOL USE INSTRUCTION](#)

[MAINTENANCE & STORAGE](#)

[SERVICE & REPLACEMENT PARTS](#)

[TROUBLESHOOTING](#)

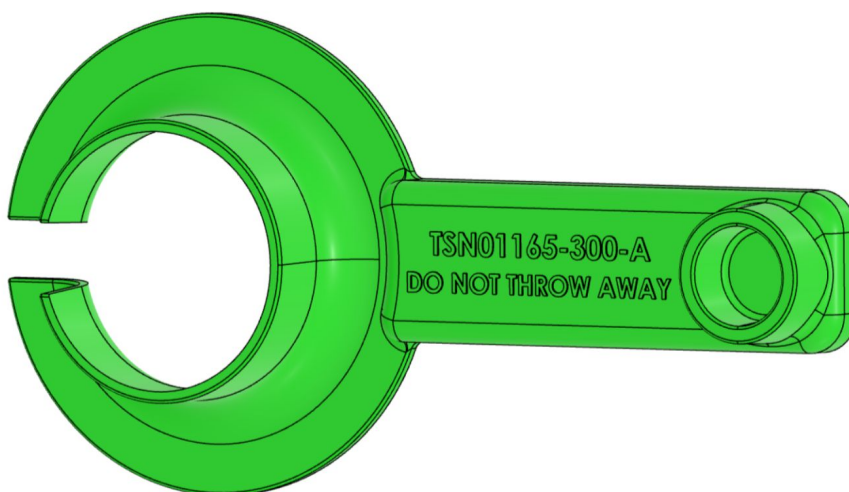
[SYMBOL GLOSSARY](#)

TOOL FUNCTION

Used to protect **Enduro** and **Ascent** drive unit output seal from being damaged during half shaft installation process.

TSN01165 works for:

- **ENDURO** Front/Rear Drive units
- **ASCENT** Front/Rear Drive units



OVERVIEW

SPECIFICATIONS

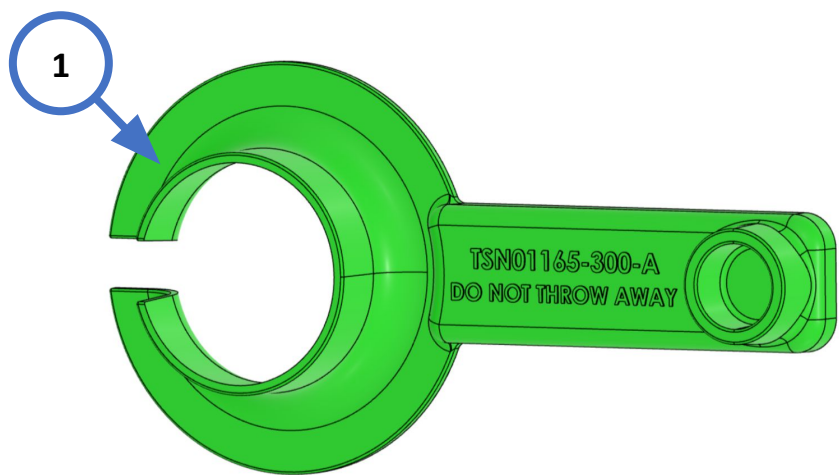
Weight: < 1.0 lb
Load Rating: N/A
Voltage Rating: N/A

LABOR CODES

386410010/386410110 Halfshaft, Front LH/RH (Remove and Replace)
426410010/426410110 Halfshaft, Rear, LH/RH (remove and Replace)

OTHER TOOLS REQUIRED

N/A



COMPONENT GUIDE

ITEM	QTY	TOOL ID (RIVIAN/SUPPLIER)	DESCRIPTION
1	1	TSN01165-300	Half shaft Seal Protection Tool





WARNING

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

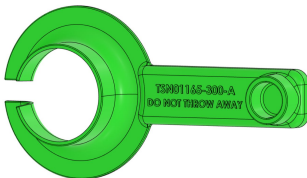

Failure to follow guidelines outlined in this document could result in injury and/or property damage.

SAFETY GUIDELINES

1	<p>CAUTION</p> <p>Risk of</p> <ul style="list-style-type: none">• damage to vehicle or property• voiding warranty	
2	<p>WARNING</p> <p>Risk of minor injury</p> <ul style="list-style-type: none">• Pinching of fingers during axle installation• Caution, keep hands clear of drive unit axle opening during installation process	
3	<p>Wear proper PPE when using tool.</p> <ul style="list-style-type: none">• Eye Protection• Gloves	

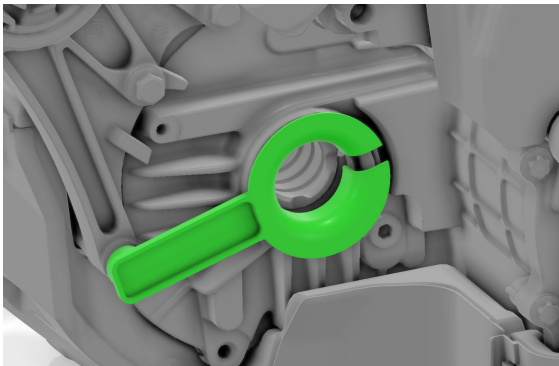
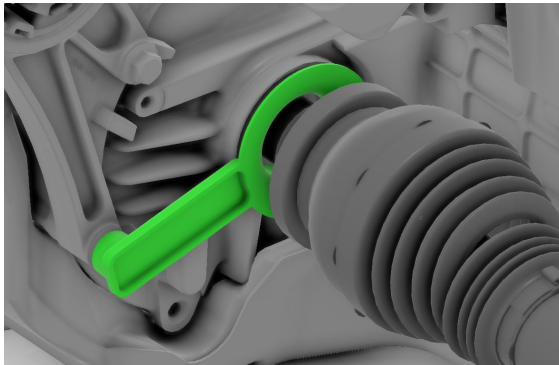
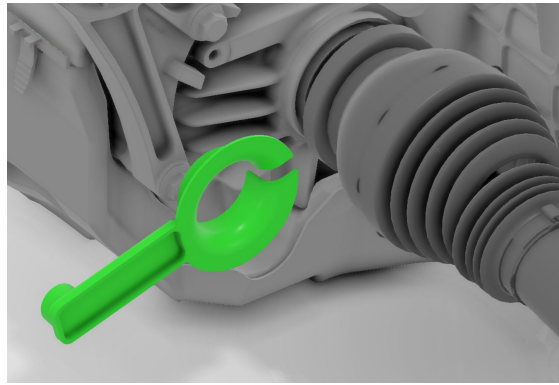


INITIAL SETUP

1	Remove TSN01165 from stored location	
2	Inspect tool for any damage (replace if necessary) Ensure tool is clean prior to using	
3	You will need to have the Half Shaft removed from the drive unit	



TOOL USE INSTRUCTION

1	With axle out of the drive unit, position TSN01165 into the drive unit Output Seal.	
2	Partially install the half shaft, engaging the spline in the drive unit. Leave space between the protector tool and the half shaft.	
3	Remove TSN01165, and continue to fully seat the half shaft.	
4	When the half shaft is fully seated, you will get an audible click from the half shaft C-clip ensuring proper installation.	



BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Visually inspect tool for any rips/tears or permanent deformation	Before each use
Ensure tool is clean (No debris or unrelated fluids on the tool surface)	Before each use
Return tool to storage location	After each use

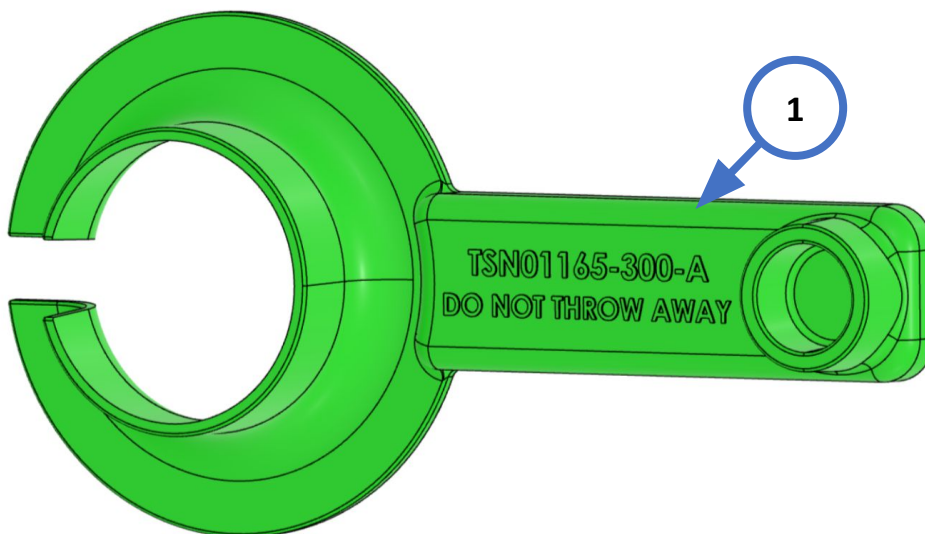


SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	Half Shaft Seal Protection Tool	TSN01165-300

TSN01165-300 is a one piece tool. If any damage or permanent deformation to the tool is present, replace the whole tool immediately.



TROUBLESHOOTING

PROBLEM	SOLUTION
Half shaft wont seat fully into drive unit	<ul style="list-style-type: none">● Follow Tool Use Instructions and ensure TSN01165 is removed prior to axle installation● Half shaft C-clip is not fully engaged
Cannot remove TSN01165 from drive unit with Half Shaft in place	<ul style="list-style-type: none">● You may have half shaft more than partially engaged causing TSN01165 to be pinched between the half shaft and the drive unit housing



SYMBOL GLOSSARY



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

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
A	01/21/2025	Initial release

