

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER TSN01221-300-A

TITLE EXTRACT TOOL - 4 WAY HV HEADER

REV - DATE REV A - 11/20/2024

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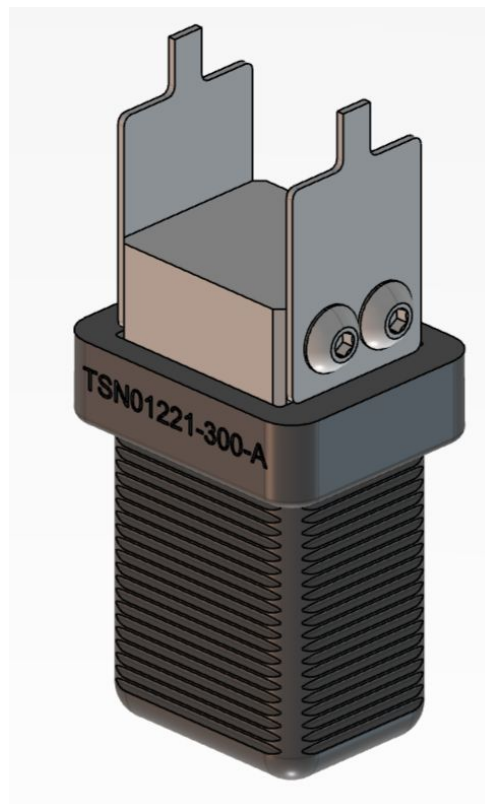
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TOOL FUNCTION

EXTRACT TOOL TO SEPARATE 4 WAY HV HEADER FROM CONNECTOR BODY



OVERVIEW

SPECIFICATIONS

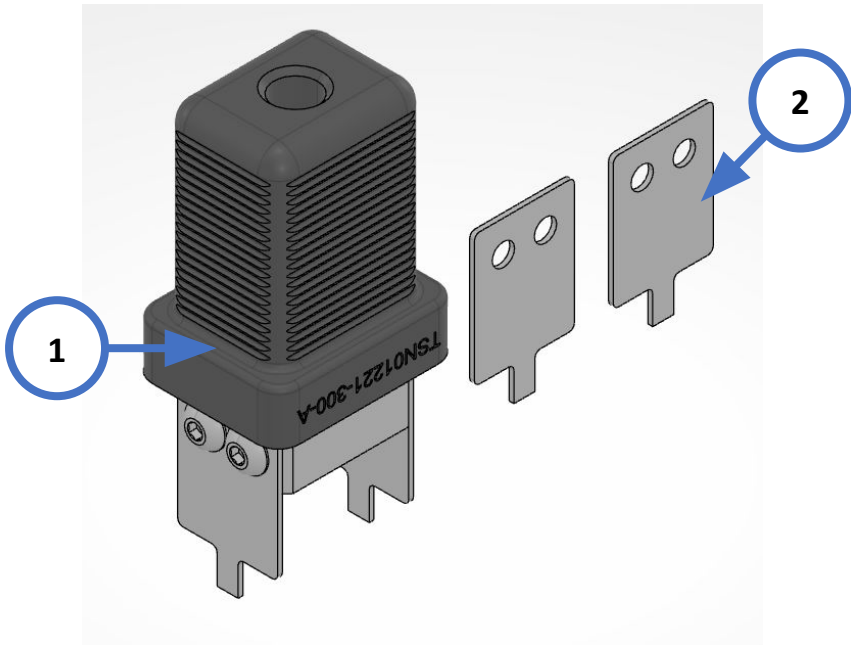
Overall Dimensions: 76.5 x 28 x 34.5 mm
Voltage Rating: 450 VDC

LABOR CODES

340010017 - Disable High Voltage

OTHER TOOLS REQUIRED

TSN00205-100 - 90 Degree Pick



COMPONENT GUIDE

ITEM	QTY	RIVIAN TOOL ID	DESCRIPTION
1	1	TSN01221-300-A	EXTRACT TOOL ASSEMBLY
2	2	TSN01221-201-A	SPARE BLADE





DANGER

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

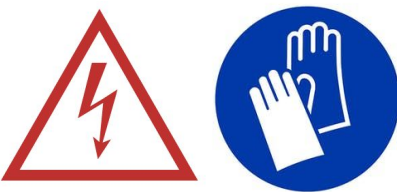
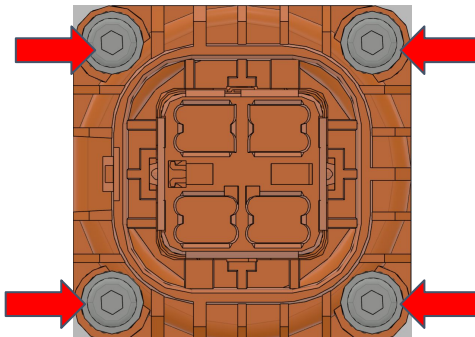
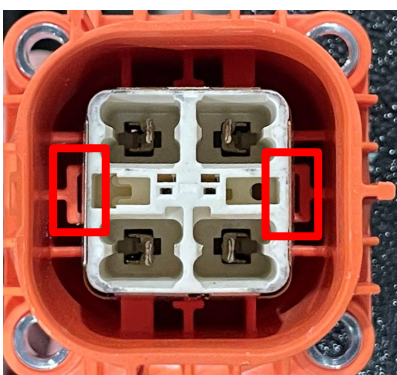
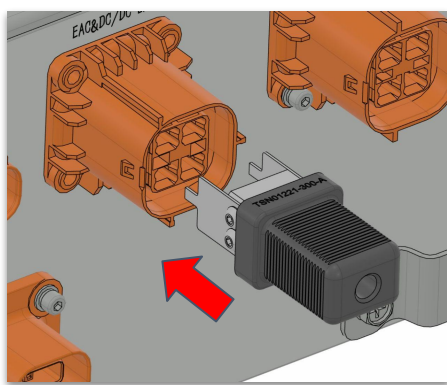
Failure to follow guidelines outlined in this document could result in property damage, electrocution injury, and/or death.

SAFETY GUIDELINES

1	ASTM class 0 electrical-protection gloves with leather protectors must be worn when working near any exposed high voltage conductor.	
2	<p>Before beginning work for the day, test electrical-protection gloves for air leakage and visually inspect them for damage.</p> <p>Repeat the air test and inspection immediately following any incident that can reasonably be suspected of causing damage.</p>	

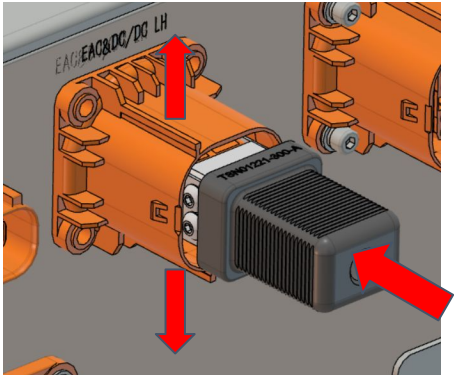
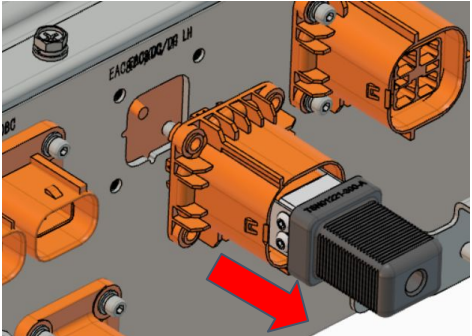
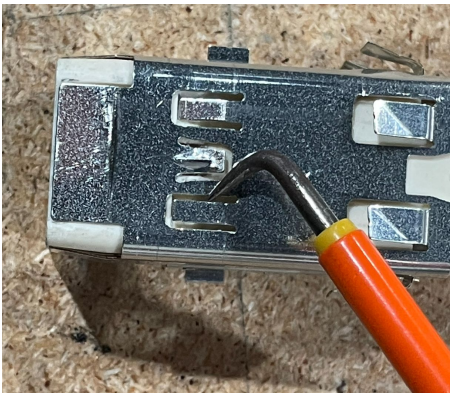
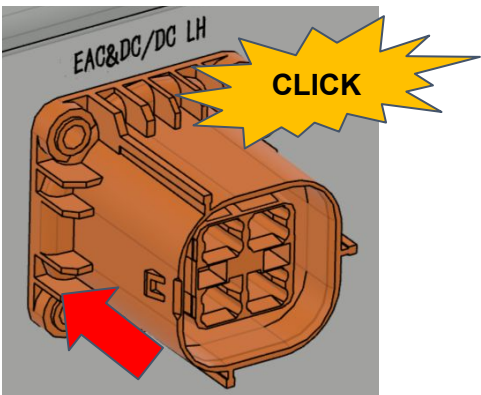


TOOL USE INSTRUCTION

1	<p>Don PPE and disable vehicle high voltage system according to service manual procedure.</p> <p><i>Note: See labor code 340010017</i></p>	
2	<p>Remove HV connector from header.</p> <p>Remove 4x fasteners that secure header shell to enclosure.</p>	
3	<p>Orient extract tool such that blade tips are aligned with the 2x header retention tabs.</p>	
4	<p>Insert tool until blades are fully engaged with retention tabs. The face of the tool will be nearly flush with the header when fully installed.</p> <p><i>Note: Install tool with care to ensure blade tips are positioned outside of metal sleeve.</i></p>	



TOOL USE INSTRUCTION

<p>5</p>	<p>Keeping inward pressure on tool with one hand, use other hand to loosen the shell from the header body with a rocking motion.</p> <p><i>Note: Initial inward pressure on the shell can help to compress the seal, allowing the retention tabs to depress.</i></p>	
<p>6</p>	<p>Once shell is disengaged from retention tabs, slide shell and tool outward until fully removed.</p> <p>Discard header shell.</p>	
<p>7</p>	<p>Use TSN00205-100 insulated pick to bend 4x retention tabs on metal sleeve until sleeve can be removed.</p> <p>Remove sleeve from header and discard.</p>	
<p>8</p>	<p>Install replacement header shell and apply inward force until both retention tabs audibly CLICK into place.</p> <p>Reinstall fasteners and torque to spec.</p>	



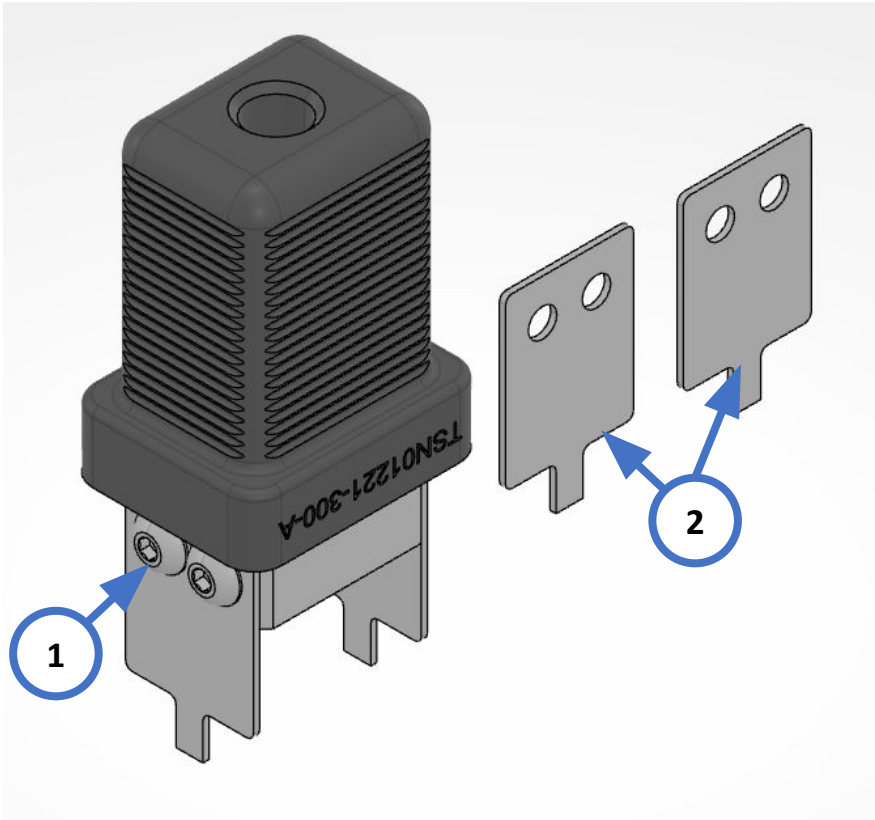
MAINTENANCE & STORAGE

TASK	FREQUENCY
Inspect tool for signs of damage, wear, or degradation of handle material. Replace blades as needed.	Before each use
Return tool to case and store in a clean, dry location.	After each use

SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	M4 x 4mm Blade Fastener	McMaster-Carr 92095A476
2	Replacement blade - 4mm	Snap-On TSN01221-201-A



TROUBLESHOOTING

PROBLEM	SOLUTION
Blades do not properly engage with header	Check that blades aren't deformed or bent. Gently straighten blades by hand or with pliers, and replace blades if badly damaged.
Tool blades and/or handle are loose	Re-tighten fasteners as needed. Do not over tighten handle fastener as it may crack the handle.

SYMBOL GLOSSARY



DANGER

Risk of electrocution or electric shock



PPE REQUIRED

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
A	11/20/2024	Initial release

