

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER TSN01288-300-A

TITLE HV BATTERY C3 MODULE REMOVAL JIG

REV - DATE REV B - 7/22/2025

CONTENTS

[OVERVIEW](#)

[SAFETY](#)

[INITIAL SETUP](#)

[TOOL USE INSTRUCTION](#)

[MAINTENANCE & STORAGE](#)

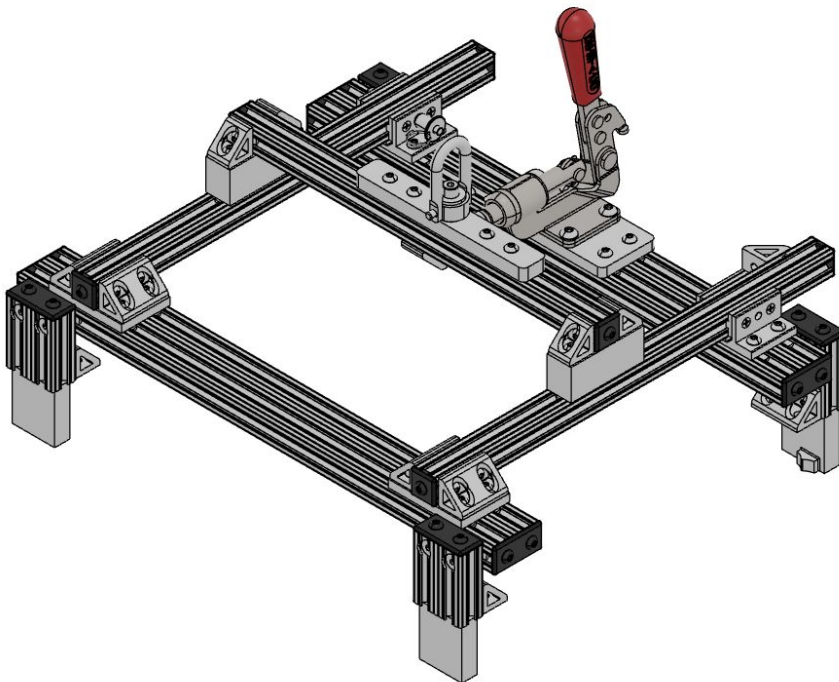
[SERVICE & REPLACEMENT PARTS](#)

[TROUBLESHOOTING](#)

[SYMBOL GLOSSARY](#)

TOOL FUNCTION

TO REMOVE THE C3 ESS MODULES FROM BATTERY PACKS.



7/22/25 REV B

Printed or Downloaded Files are Uncontrolled, For Reference Only

OVERVIEW

SPECIFICATIONS

Weight: ~5.3 kg

Overall Dimensions: 443 mm x 311 mm x 502 mm

LABOR CODES

N/A

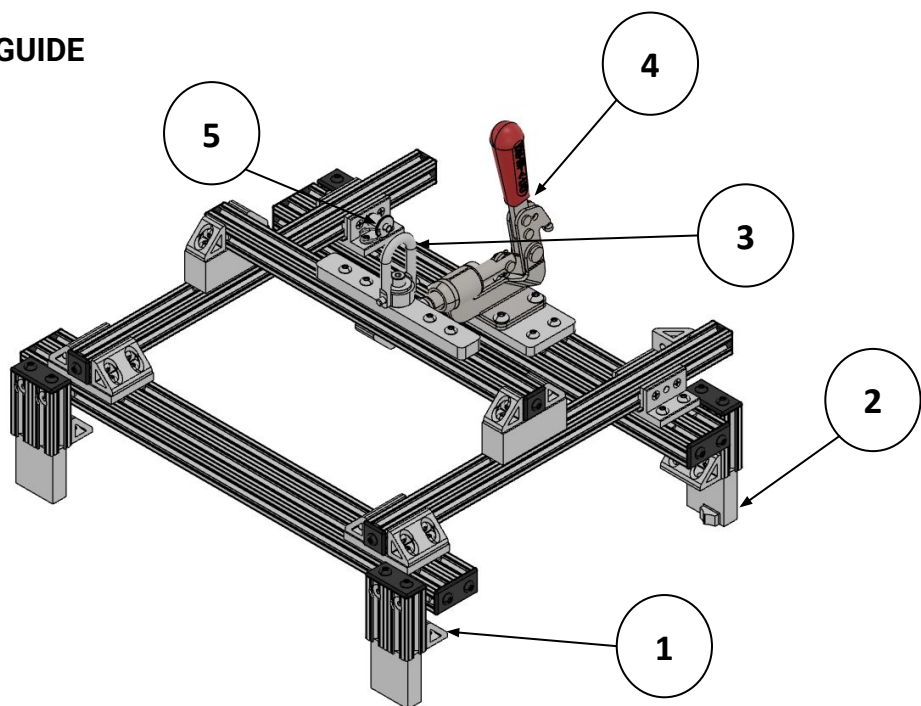
OTHER TOOLS REQUIRED

TSN01178-300-B: DRIVE UNIT HOIST

TSN00523-100-A: PORTABLE GANTRY, 2 TON CAP

TSN00522-100-A: ELECTRIC CHAIN HOIST, 2 TON CAP

COMPONENT GUIDE



ITEM	QTY	NAME
1	4	SUPPORT FOOT
2	4	WEDGE FOOT
3	1	STEEL HOIST RING
4	1	REVERSE-ACTION PUSH TOGGLE CLAMP
5	1	KNOB-GRIP LOCKING QUICK-RELEASE PIN



**WARNING**

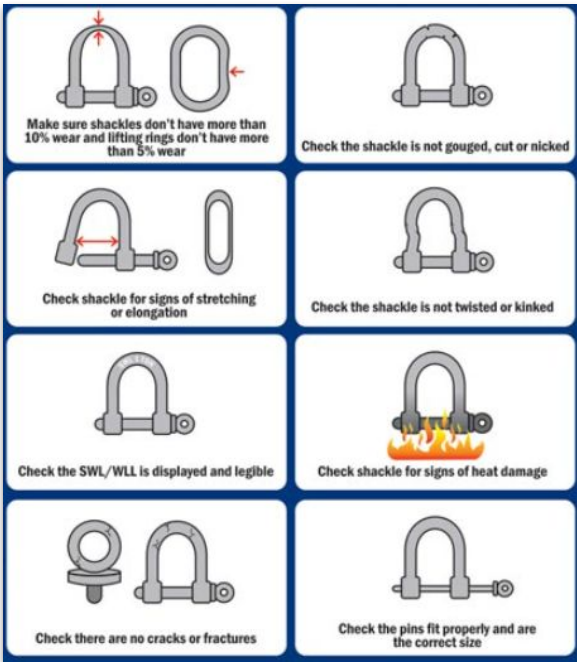

Do not perform procedure if tool is damaged or missing parts. Consult the Rivian Service Tool Catalog for replacement components.

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

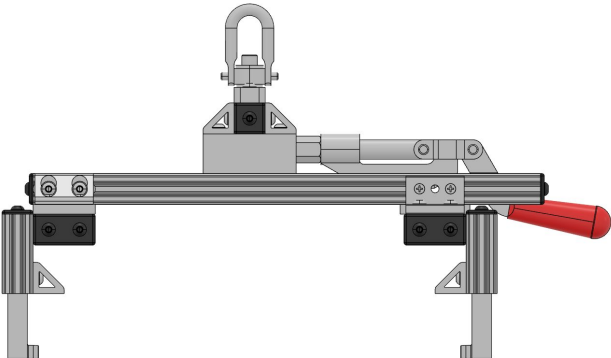

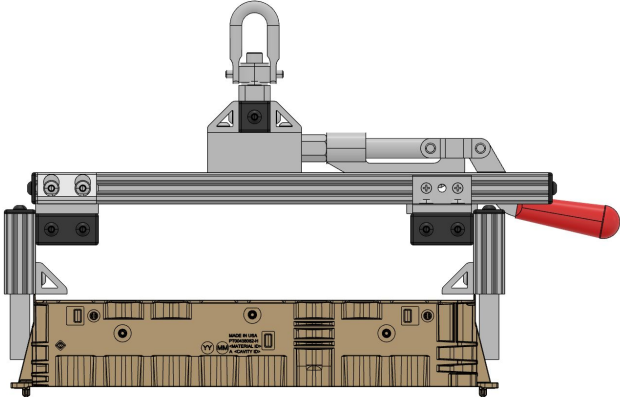
SAFETY GUIDELINES

1	PPE Required <ul style="list-style-type: none">• Eye Protection, Gloves, Closed Toe Shoes• ASTM class 0 electrical-protection gloves with leather protectors must be worn when working near any exposed high voltage conductor.• Before beginning work for the day, test electrical-protection gloves for air leakage and visually inspect them for damage. Repeat the air test and inspection immediately following any incident that can reasonably be suspected of causing damage.	
2	CAUTION: <ul style="list-style-type: none">• Do not perform procedure if any equipment is missing or damaged.• Keep fingers away from pinch points	
3	DANGER: <ul style="list-style-type: none">• Risk of electrocution or electric shock	

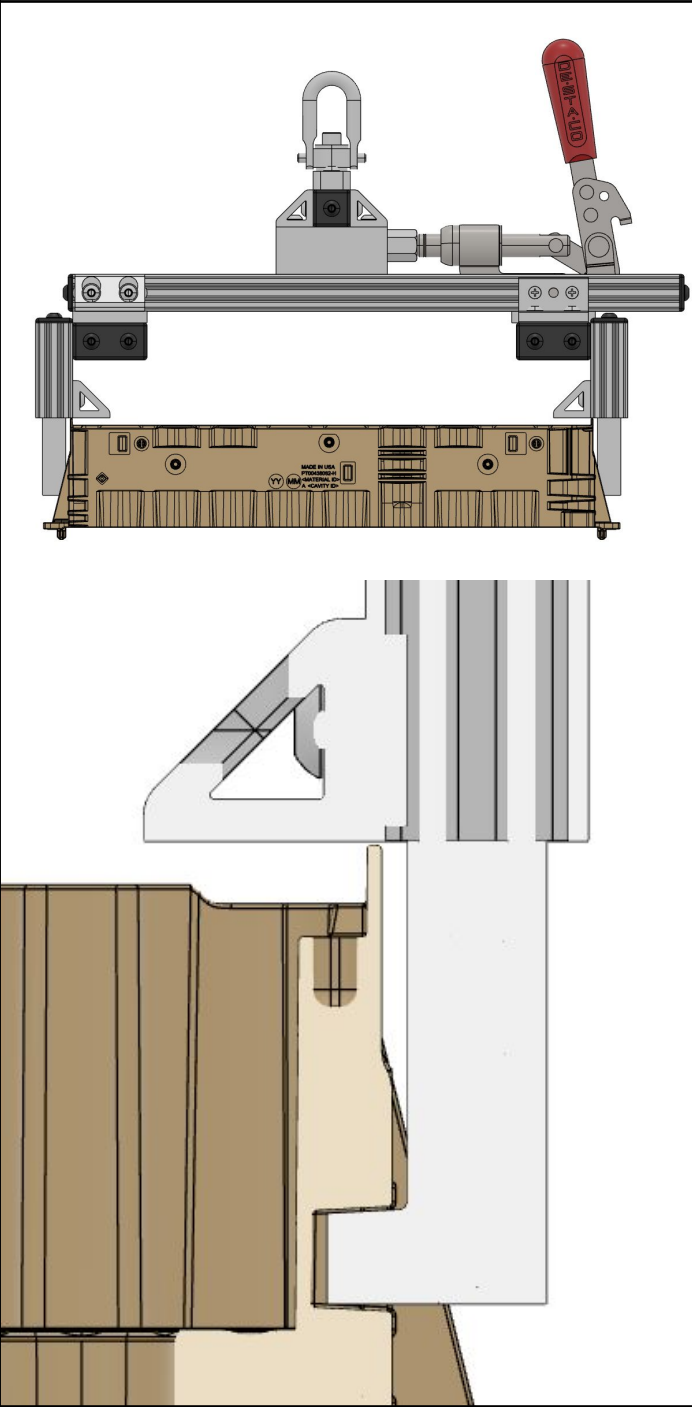
INITIAL SETUP

1	<p>Inspect all lift hardware and equipment for damage or missing parts prior to performing the lift.</p>	 <ul style="list-style-type: none"> Make sure shackles don't have more than 10% wear and lifting rings don't have more than 5% wear Check the shackle is not gouged, cut or nicked Check shackle for signs of stretching or elongation Check the shackle is not twisted or kinked Check the SWL/WLL is displayed and legible Check shackle for signs of heat damage Check there are no cracks or fractures Check the pins fit properly and are the correct size
2	<p>Prepare a flat clean surface for the module to be lowered onto prior to performing the lift.</p>	

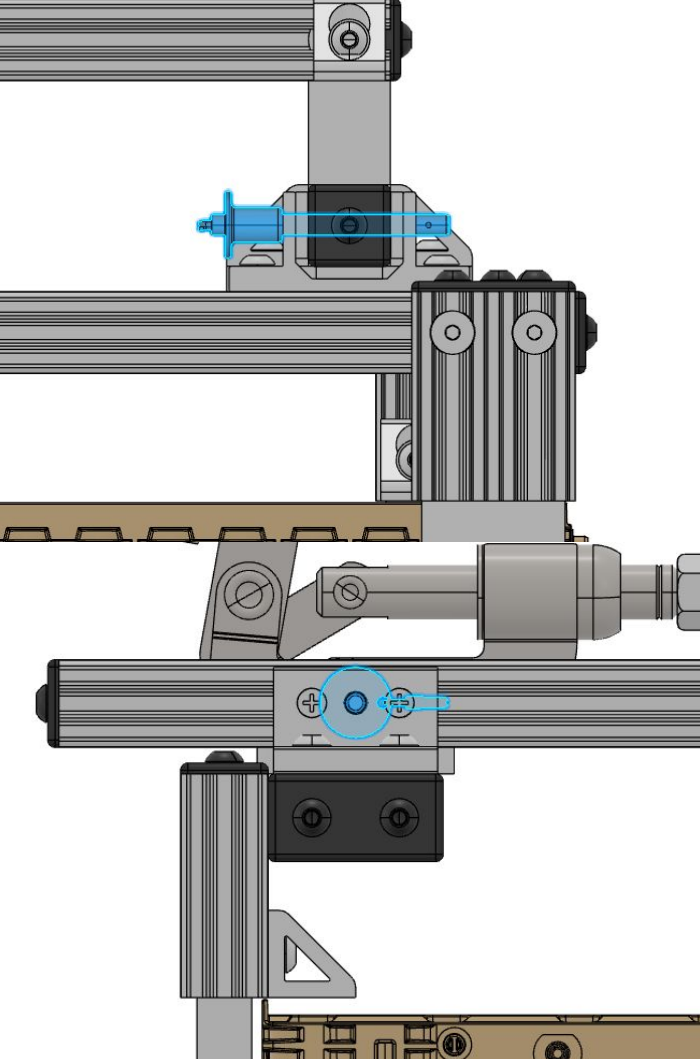


Step	Directions	Visual Aid
1	<p>⚠ Note: Refer to Service Manual procedure Labor Code: 340010017 to disable high voltage prior to opening HV battery lid.</p> <p>With the jig in the open position lower it down until the support feet are resting on the topside of the module.</p>	  



Step	Directions	Visual Aid
2	<p>Lift up the clamp handle to close the jig so that the 4 wedge feet are securely in their respective module pockets.</p> <p>⚠ Note: The support or wedge feet may need to be adjusted to be in the optimum position to lock into the module. See troubleshooting guide for more detail.</p>	 <p>The visual aid consists of two diagrams. The top diagram is a top-down view showing a brown printed circuit board (PCB) held within a grey metal frame. A red-handled clamp is positioned on the right side of the frame, ready to be closed. The bottom diagram is a side-view cross-section showing the PCB being inserted into a larger tan-colored housing. A grey support structure is visible on the right, with a wedge foot designed to fit into a pocket on the PCB.</p>



Step	Directions	Visual Aid
3	<p>Insert the safety pin through the hole in the slider to keep it locked in the closed position. It is now safe to lift.</p> <p>⚠ Note: Use a spotter to make sure module clears HV battery frame while technician is operating the hoist/lift.</p>	

BASIC MAINTENANCE GUIDE

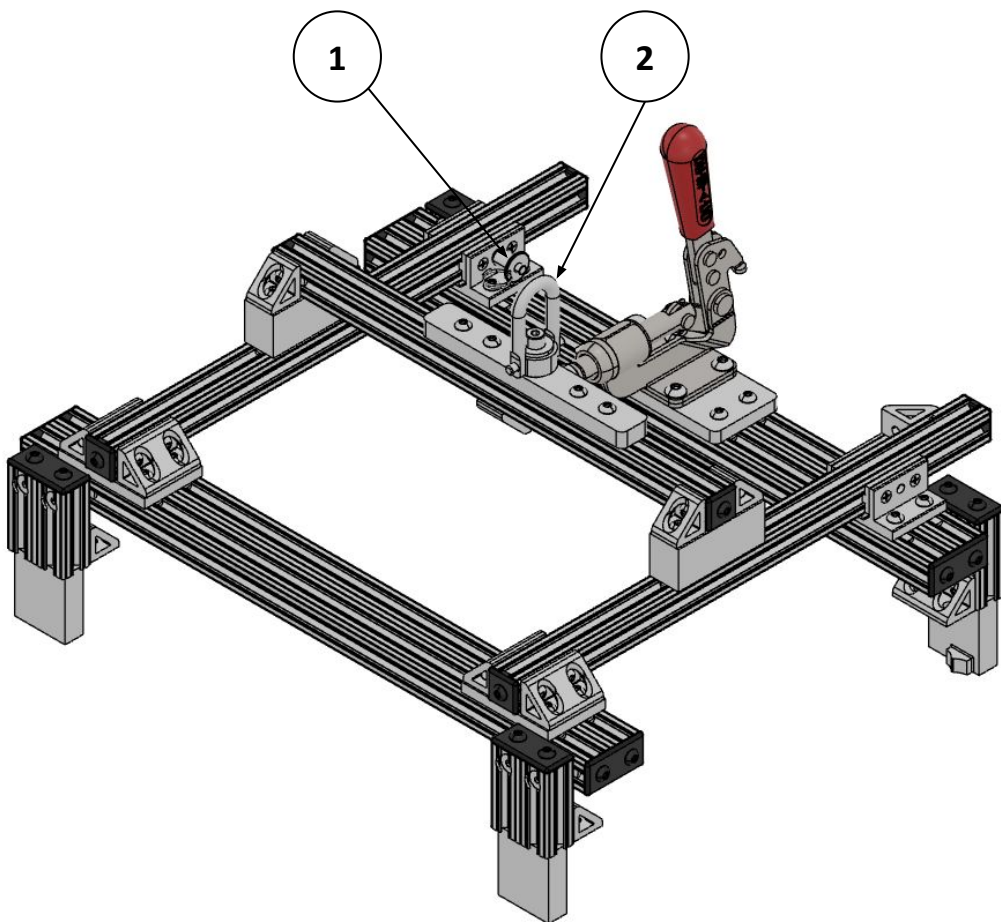
TASK	FREQUENCY
Inspect all components are present and damage free	Before and after every use
Inspect that hoist ring is fully threaded in and secure	Before and after every use

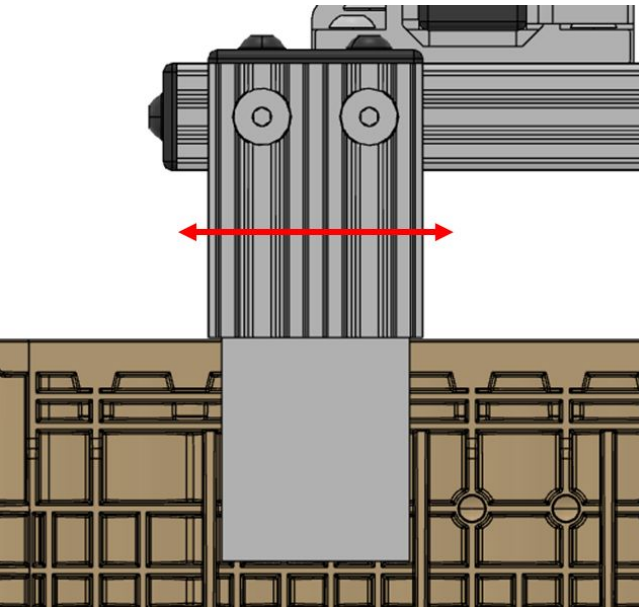
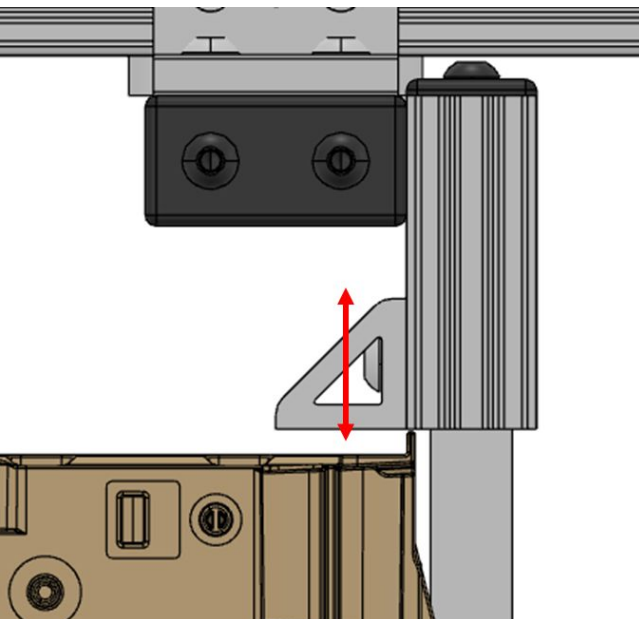


SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	KNOB-GRIP LOCKING QUICK-RELEASE PIN	MCMaster-CARR #94748A227
2	STEEL HOIST RING	MCMaster-CARR #3052T103



PROBLEM	SOLUTION
<p>The wedge feet do not align with their respective module pockets.</p>	<p>The wedge feet position may need to be adjusted.</p>  <p>The diagram illustrates a wedge foot assembly (a grey vertical component with two circular features) being adjusted horizontally. A red double-headed arrow is positioned below the assembly, indicating the range of adjustment. The assembly is shown above a brown module with multiple pockets.</p>
<p>The support feet clash with the top of the module or potting preventing the wedge feet from fully engaging.</p>	<p>The support feet position may need to be adjusted.</p>  <p>The diagram illustrates a support foot assembly (a grey vertical component with a triangular base) being adjusted vertically. A red double-headed arrow is positioned to the left of the assembly, indicating the range of adjustment. The assembly is shown below a brown module with multiple pockets.</p>



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

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
A	5/22/25	Initial release
B	7/22/25	Added more detail and images to Troubleshooting

