

# TOOL USE INSTRUCTION

**RIVIAN**

TOOL NUMBER TSN00553-300-C

TITLE BATTERY LIFT TABLE JIG

REV - DATE REV C - 12/12/2024

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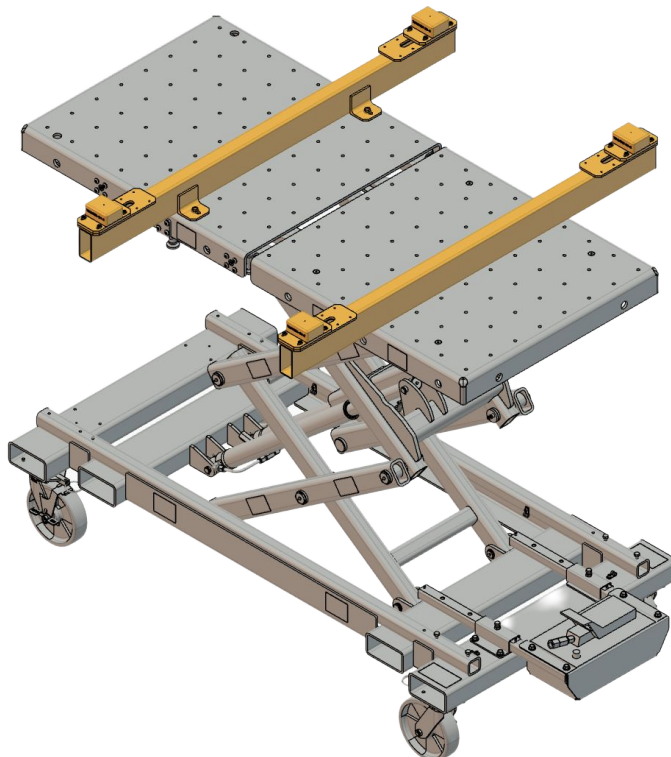
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## TOOL FUNCTION

TO BE UTILIZED WITH BATTERY LIFT TABLE FOR SUPPORTING/LOCATING C1, C3, AND LFP HV BATTERY PACKS



OVERVIEW

SPECIFICATIONS

Manufacturer PN: NCT05389337  
Beam Length: 1475mm (58")  
Pad Dimensions: 88.9 x 70 mm (3.5 x 2.75")

LABOR CODES

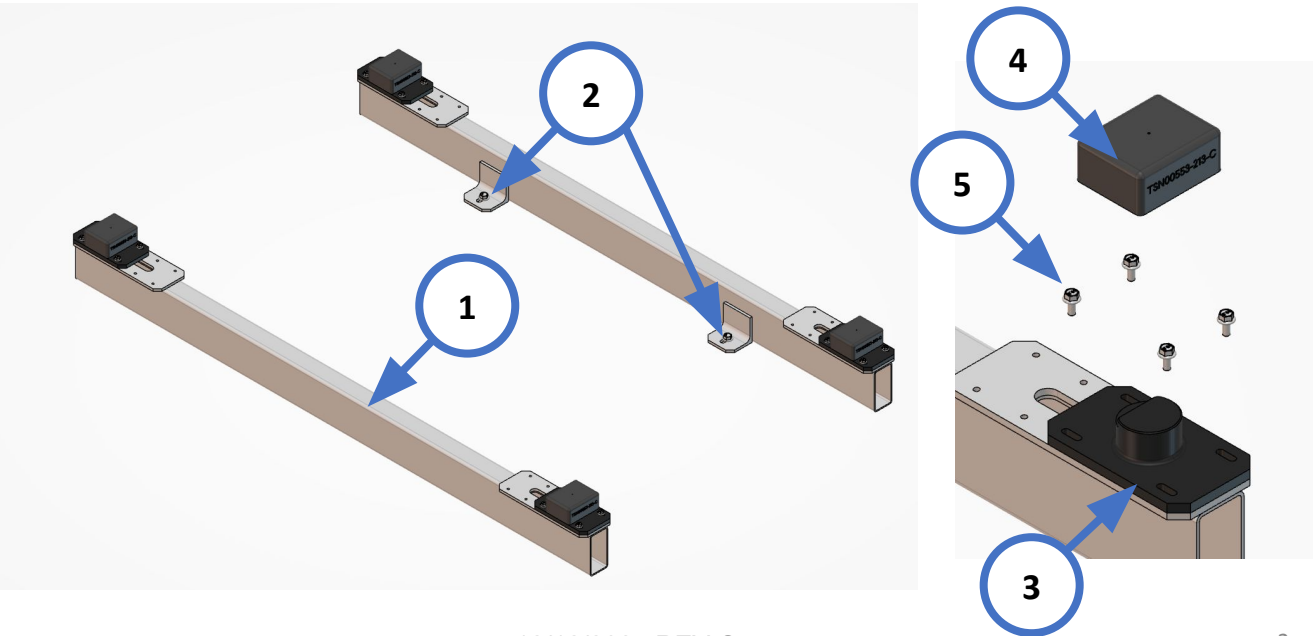
301010010 HV Battery (Remove and Replace)  
301010011 HV Battery (Remove and Reinstall)

OTHER TOOLS REQUIRED

TSN00486-100 - Battery Lift Table  
TSN00541-300 - Battery Lift Beam  
TSN00269-101 - 16" Rolling Head Prybar

COMPONENT GUIDE

| ITEM | QTY | DESCRIPTION     |
|------|-----|-----------------|
| 1    | 2   | CROSS BEAM      |
| 2    | 4   | M10 FLANGE BOLT |
| 3    | 4   | SUPPORT PAD     |
| 4    | 4   | RISER PAD       |
| 5    | 16  | M6 FLANGE BOLT  |



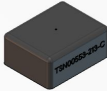





**WARNING**

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

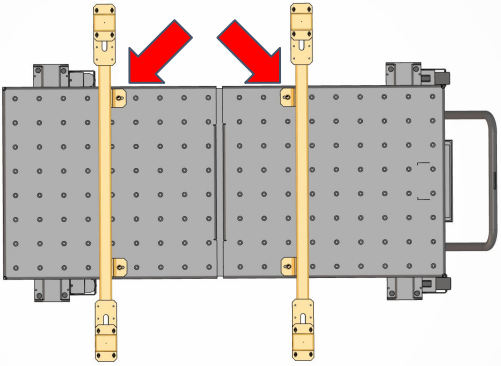
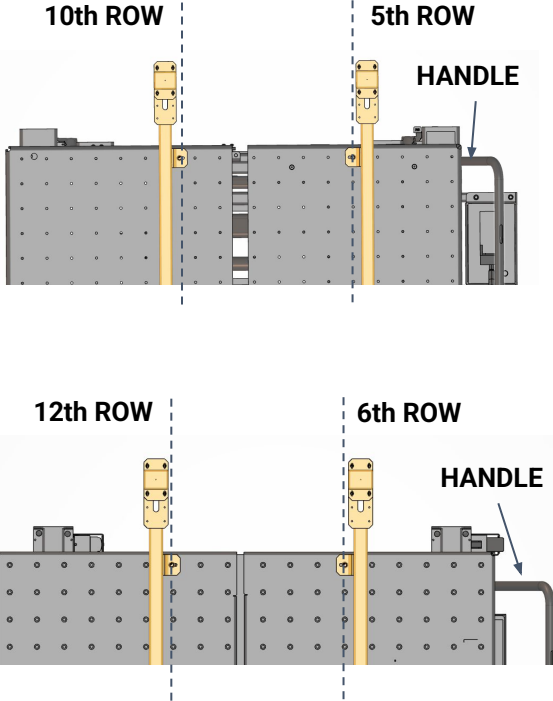
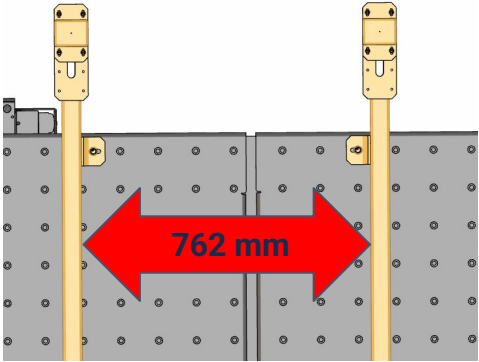
Failure to follow guidelines outlined in this document could result in injury and/or property damage.

**SAFETY GUIDELINES**

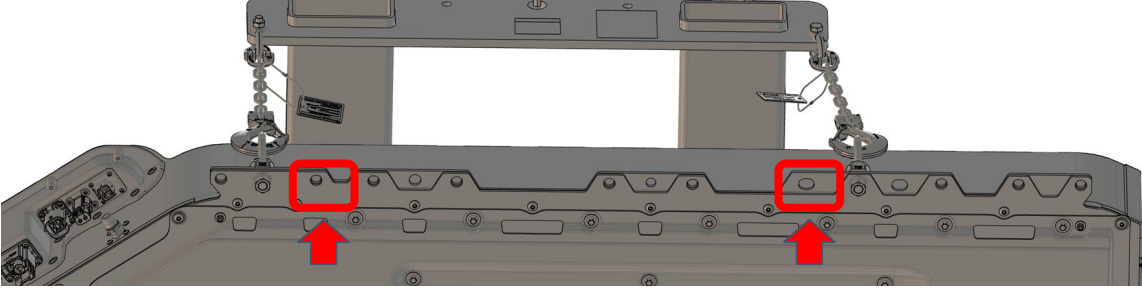
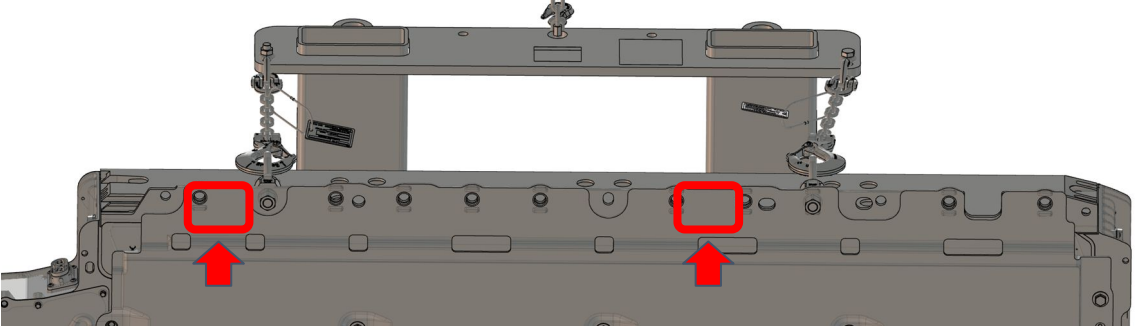
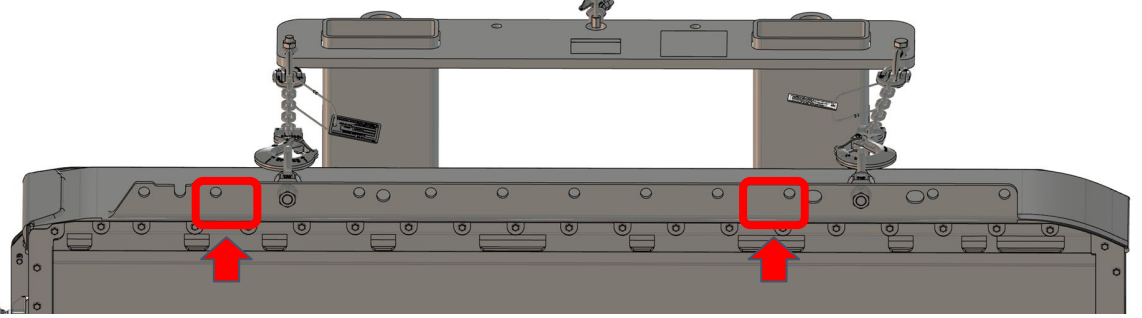
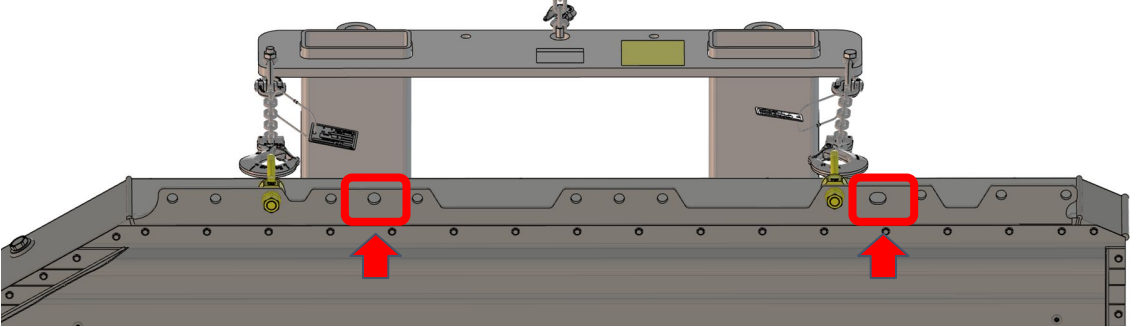
|   |   |   |
|---|---|---|
| 1 | Inspect and replace worn or damaged riser pads as needed  |    |
| 2 | Attempting to use lift table to support HV battery packs without jigs in place is not permitted   |    |
| 3 | Ensure pack is supported by all riser pads before fully lowering onto the table   |  |
| 4 | <p>Be cautious of areas where body parts or clothing could get caught or crushed between moving parts of the equipment, potentially causing serious injury.</p> <p>Use spotters and communicate whenever raising or lowering lift table to ensure all pinch points are clear of personnel or objects.</p> |  |



## INITIAL SETUP

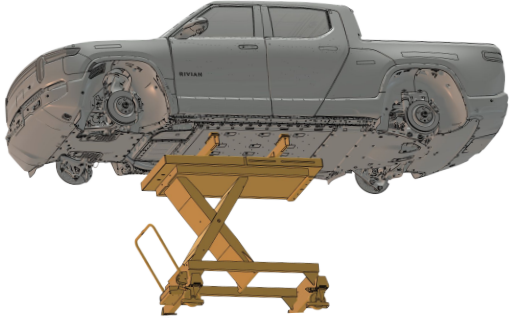
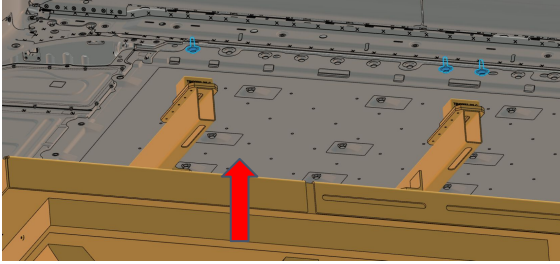

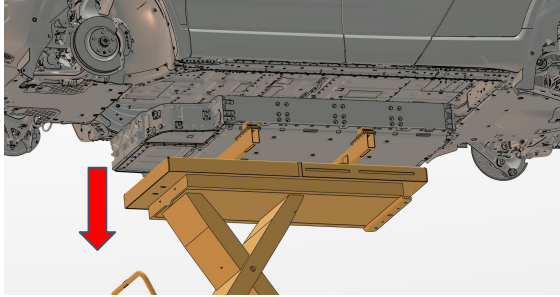
|   |  |  |
|---|--|--|
| 1 | <p>Place the cross beams on the table with mounting tabs facing <b>inward</b> as shown.</p>  |    |
| 2 | <p><b>FOR BOSCH LIFT TABLES:</b></p> <p>Align cross beam tabs with the <b>5th row</b> and <b>10th row</b> of threaded holes, starting from the handle side of the table.</p> <p><b>FOR WIELANDER AND SCHILL LIFT TABLES:</b></p> <p>Align cross beam tabs with the <b>6th row</b> and <b>12th row</b> of threaded holes, starting from the handle side of the table.</p> |   |
| 3 | <p>Ensure beams are square to the sides of the table, then install 4x M10 fasteners and torque to <b>22 Nm</b>.</p> <p>Loosen knobs on either side of the table and adjust spacing until center gap between cross beams measures <b>762 mm (30")</b></p>   |  |



|                        | FRONT  | REAR |
|------------------------|--|------|
| C1 NCA<br>ALL VARIANTS |    |      |
| C3 NCA<br>7 AND 9 MOD  |    |      |
| LFP<br>BALTIC          |  |      |
| LFP<br>BENGAL          |  |      |



## TOOL USE INSTRUCTION - BATTERY REMOVAL

|   |   |  |
|---|---|--|
| 1 | <p>Prep vehicle according to service manual procedure</p> <p>Refer to <a href="#">HV Battery Storage, Shipping, and Handling Guide</a> before proceeding</p>  |  |
| 2 | <p>Roll lift table under vehicle with handle + foot pedal toward the front of the vehicle.</p> <p>Attach shop air line to lift table.</p>   |    |
| 3 | <p>Use foot pedal to raise table until pads are approx. 12" from the battery pack flange.</p> <p>Position lift table such that pads are aligned per <a href="#">TOOL CONFIGURATION GUIDE</a></p> <p>Remove fasteners within contact zone before proceeding.</p>   |   |
| 4 | <div data-bbox="189 1263 308 1367">  </div> <p><b>WARNING</b></p> <p>2 person operation, one controlling the table and one as spotter at the rear of vehicle</p> <p>Raise table until pads are in contact with the pack flange, ensuring all four pads have even contact.</p> <p>Remove remaining flange fasteners and slowly lower table, checking for interference between the battery and vehicle frame as pack is lowered.</p> |  |



|          |   |  |
|----------|---|--|
| <p>1</p> | <div data-bbox="187 195 308 301"> </div> <div data-bbox="347 198 502 231"> <p><b>WARNING</b></p> </div> <div data-bbox="347 266 791 378"> <p>2 person operation, one controlling the table and one as spotter at the rear of vehicle</p> </div> <p>Roll lift table under vehicle with front of the pack toward front of vehicle.</p> <p>Use foot pedal to raise table until top of pack is approximately 6" from the bottom of the vehicle.</p> |  |
| <p>2</p> | <p>Adjust lift table position to align pack with vehicle cavity and slowly raise lift table until flange is nearly flush with skateboard mounting surface.</p> <div data-bbox="212 900 302 933"> <p><b>NOTE</b></p> </div> <div data-bbox="212 967 728 1079"> <p>Use side rails of skateboard and brackets in rear to guide pack during install</p> </div>  |  |
| <p>3</p> | <p>Use <b>TSN00269-101-A</b> pry bar against pack locating holes to shift lift table front/back as needed until fastener holes are aligned.</p> <div data-bbox="212 1340 302 1373"> <p><b>NOTE</b></p> </div> <div data-bbox="212 1408 694 1481"> <p>Locating feature is a round hole in front, slot in rear</p> </div>   |  |
| <p>4</p> | <p>Reinstall all accessible flange fasteners and torque per service manual specifications.</p> <p>Lower lift table, then install remaining fasteners and torque to spec.</p>  |  |

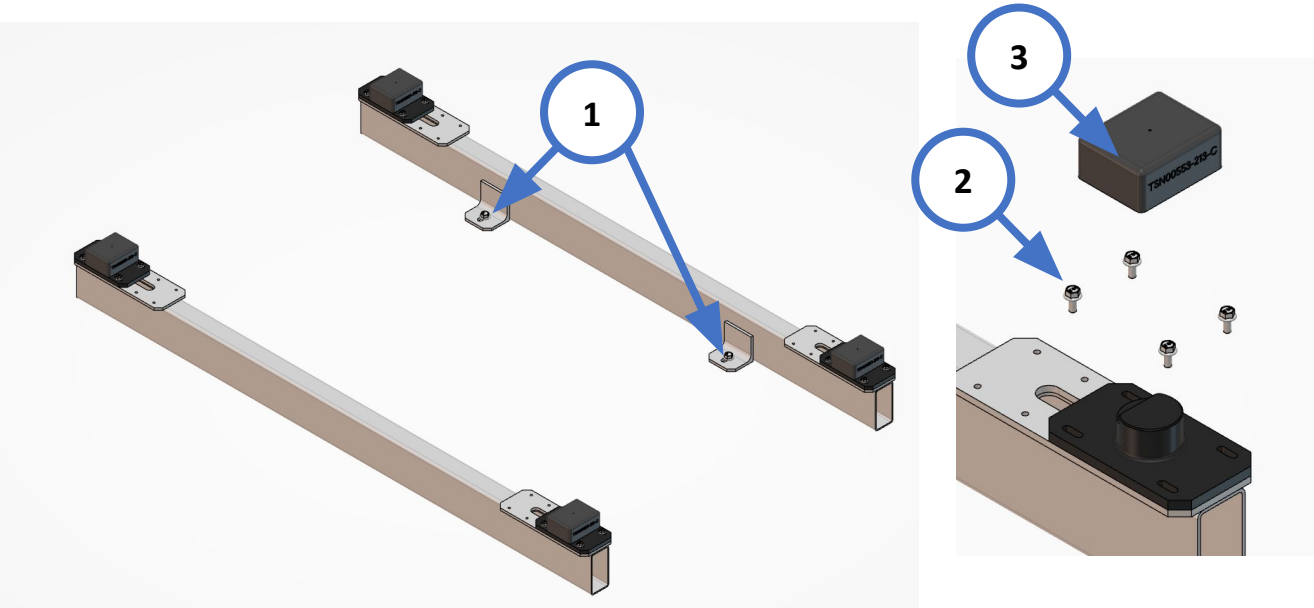
BASIC MAINTENANCE GUIDE

| TASK   | FREQUENCY        |
|--|------------------|
| Visually inspect riser pads for signs of damage or excessive wear. Order replacement pads as needed. | Before every use |
| Store lift table jig indoors in a dry environment  | After Each Use   |

SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

| ITEM | DESCRIPTION     | SUPPLIER         | PART NUMBER  |
|------|-----------------|------------------|--------------|
| 1    | M10 Flange Bolt | McMaster-Carr    | 94036A631    |
| 2    | M6 Flange Bolt  | McMaster-Carr    | 98093A214    |
| 3    | Riser Pad       | Snap-On Punchout | TSN00553-213 |







**WARNING**

Risk of minor injury

**NOTE**

Useful information



**PINCH POINT**

**REVISION LOG**

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| REV | DATE       | CHANGE DESCRIPTION  |
|-----|------------|---|
| C   | 12/12/2024 | Updated for Rev C tool, translated instructions from confluence to new template |
|     |            |   |
|     |            |   |
|     |            |   |

