

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER TSN01603-300-A

TITLE REMORA EDV LIFT TABLE SUPPORT JIG

REV - DATE REV A - 4/28/2025

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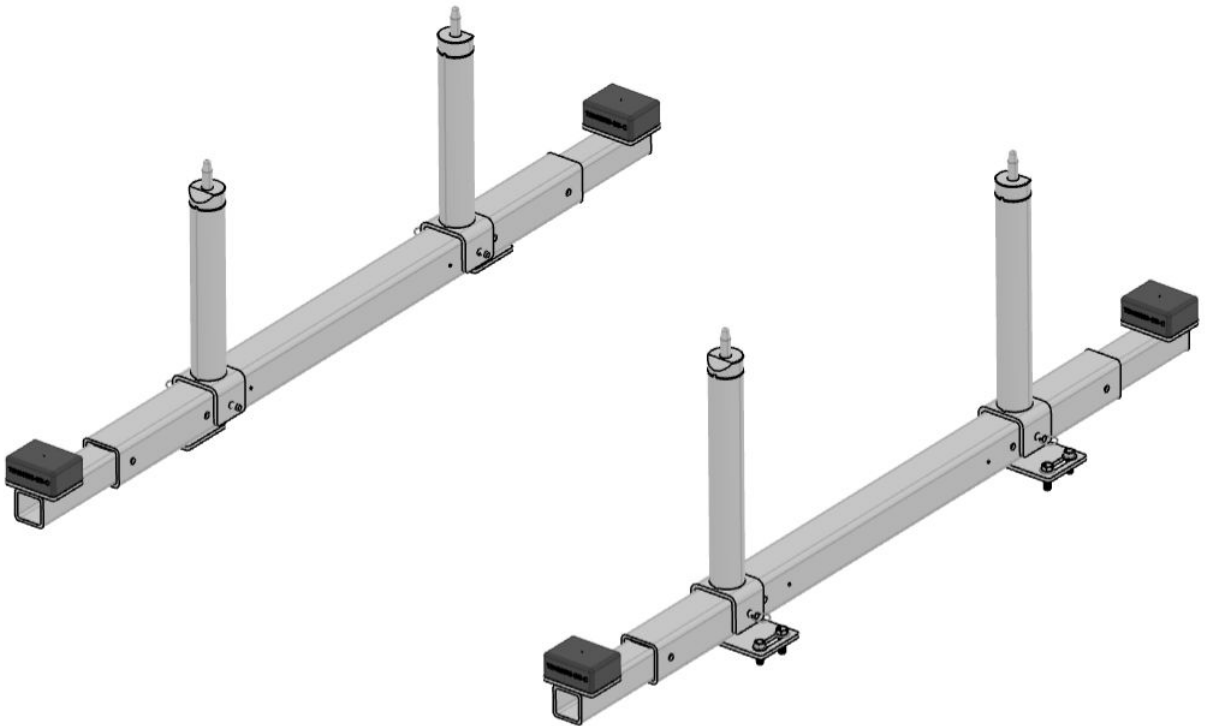
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TOOL FUNCTION

USED FOR REMOVING GEN 1 REAR SUBFRAME AND INSTALLING GEN 2 REAR SUBFRAME DURING REMORA RETROFIT



OVERVIEW

SPECIFICATIONS

Weight: 48 kg (106 lbs)

Overall Dimensions (L x W x H): 1395 mm x 1153 mm x 508 mm

Load Rating, Subframe Posts: 453 kg (1000 lbs)

Load Rating, Battery Beams: 1134 kg (2500 lbs)

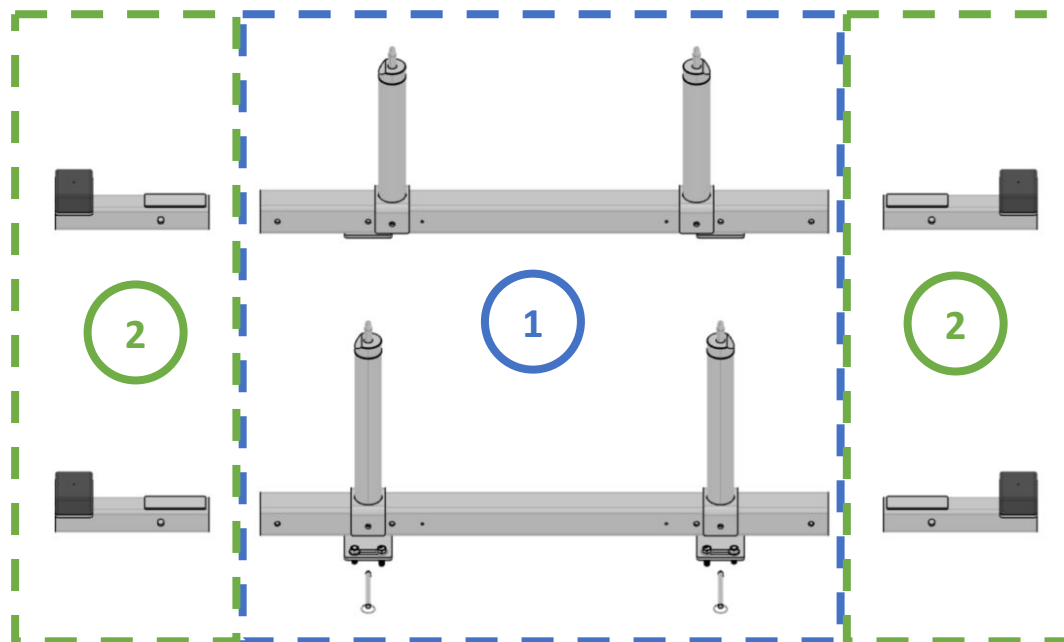
LABOR CODES

183261018 - Axle/Leaf Spring/Frame Assembly

OTHER TOOLS REQUIRED

TSN00486-10X - BATTERY LIFT TABLE

TSN01601-300-A - HV BATTERY SHOULDER BOLT, EDV



COMPONENT GUIDE

| ITEM | QTY | RIVIAN TOOL ID | DESCRIPTION |
|------|-----|----------------|---|
| 1 | 1 | TSN01603-201-A | REMORA EDV REAR SUBFRAME SUPPORT JIG (2X CROSS BEAMS + 4X SUPPORT POSTS) |
| 2 | 1 | TSN01603-202-A | REMORA EDV HV BATTERY SUPPORT JIG (4X SUPPORT PADS) |



**WARNING**

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

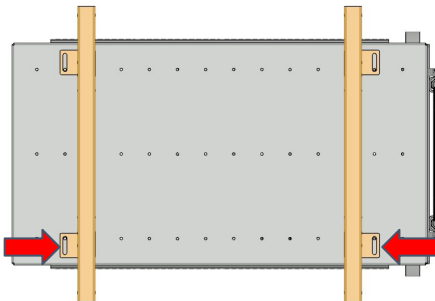
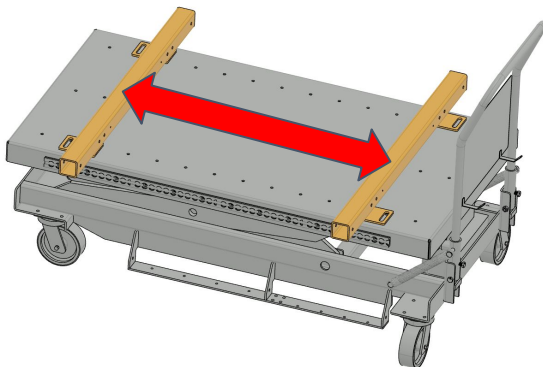
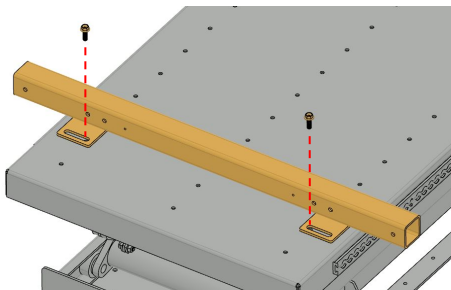
Failure to follow guidelines outlined in this document could result in injury and/or property damage.

SAFETY GUIDELINES

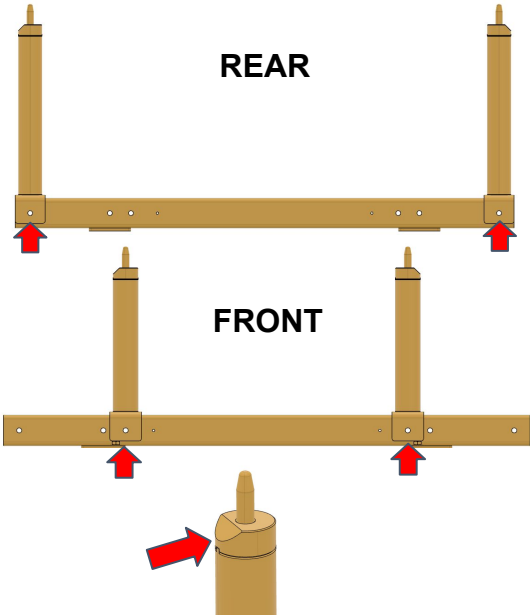
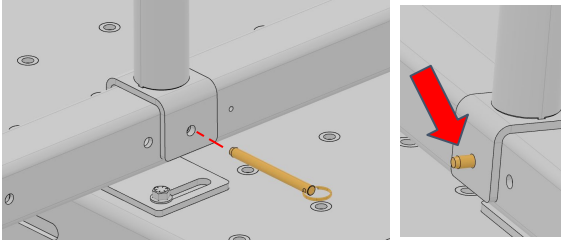
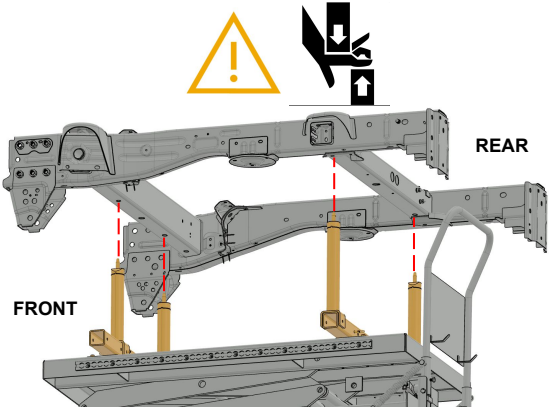
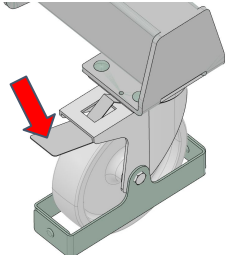
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|---|--|
| 1 | This tool is designed for use specifically for retrofitting Rivian EDV vehicles with Gen 2 rear subframes. |
| 2 | Tool is intended for use only with with the battery lift tables listed under "OTHER TOOLS REQUIRED" |
| 2 | Do not exceed the listed load rating of the tool or lift table. |
| 3 | Never use tool without locking pins installed and fully engaged with the cross beam. |
| 4 | Pinch points - keep hands and fingers clear of all moving parts when operating the tool. |

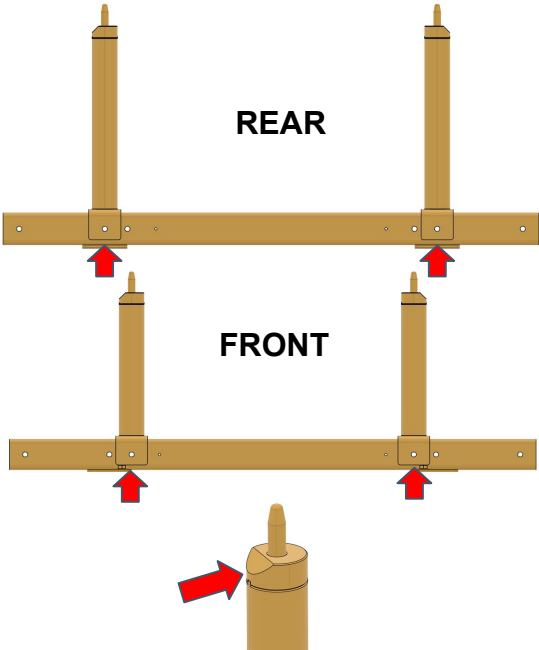
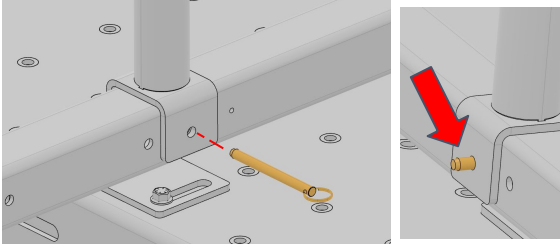
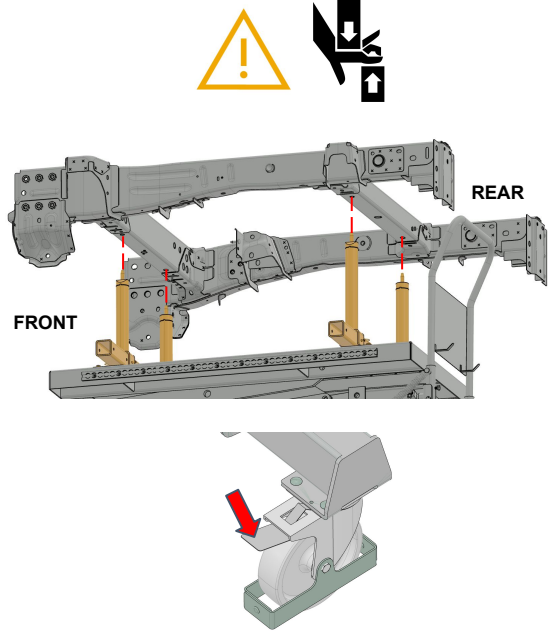


INITIAL SETUP

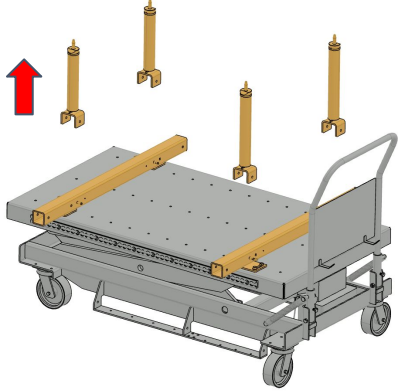
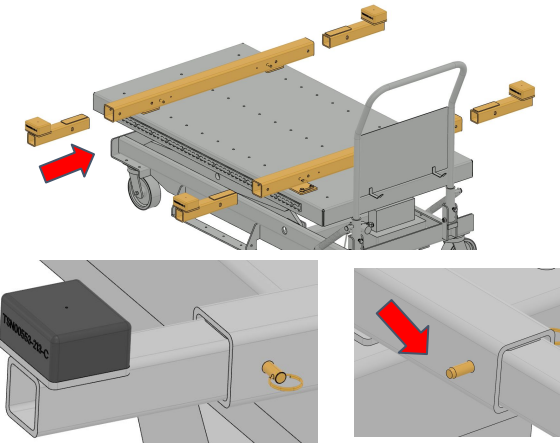
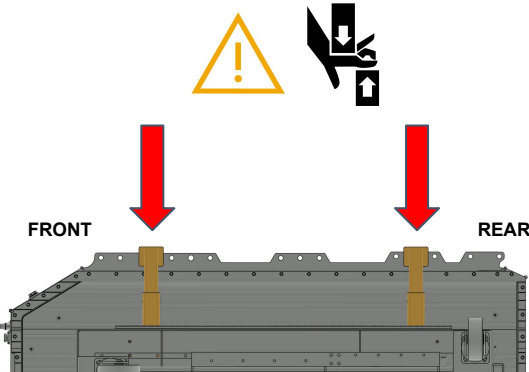
| | | |
|---|--|--|
| 1 | <p>Place support jig cross beams on top of lift table with mounting pads facing outward.</p> |  |
| 2 | <p>Center the beams on the table and space beams 965mm (38") apart, measuring from center-to-center. Ensure beams are parallel to each other.</p> <p>NOTE</p> <p>Image shows position on AGA lift table. Mounting hole location may vary by table manufacturer.</p> <p>Ensure jig is well centered and spacing is equal from front to back / side to side.</p> |  |
| 3 | <p>Install 4x fasteners and tighten until snug.</p> <p>NOTE</p> <p>Fastener size varies depending on table manufacturer. The kit includes M10 and 3/8 fastener sizes.</p> |  |



| | | |
|---|--|--|
| 1 | <p>GEN 1 SUBFRAME REMOVAL:</p> <p>Install longer rear support posts in the furthest outboard hole position on the cross beam.</p> <p>Install shorter front support posts to the furthest inboard hole position on the cross beam.</p> <div data-bbox="197 595 792 778" style="border: 1px solid black; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p>IMPORTANT</p> <p>The chamfer on the end of the posts must be pointing outboard</p> </div> |  |
| 2 | <p>Secure posts using 4x provided quick-release pins.</p> <p>Visually confirm pins are engaged on both sides of the beam.</p> |  |
| 3 | <p>Bring lift table under vehicle and carefully raise until locating pins on the tool engage with the frame crossmember holes as shown.</p> <p>Raise table until support posts just begin to contact the frame.</p> |  |
| 4 | <p>Adjust table tilt as needed and lock lift table casters before releasing subframe onto the jig.</p> <p>Ensure lift table casters are locked whenever loading and unloading the subframe from the tool.</p> |  |

| | | |
|----------|---|--|
| <p>1</p> | <p>GEN 2 SUBFRAME INSTALL:</p> <p>Set longer rear support posts to the middle hole position on the cross beam</p> <p>Set shorter front support posts to the furthest inboard hole position on the cross beam (same as Gen 1).</p> <div data-bbox="178 618 778 807"> <p>IMPORTANT</p> <p>The chamfer on the end of the posts must be pointing outboard</p> </div> |  |
| <p>2</p> | <p>Secure posts using 4x provided quick-release pins.</p> <p>Visually confirm pins are engaged on both sides of the beam.</p> |  |
| <p>3</p> | <p>The 4x Locating pins on the jig engage with the Gen 2 subframe crossmember in locations shown.</p> <p>Follow service procedure for hoisting the Gen 2 subframe onto the support posts and installing into the vehicle.</p> <div data-bbox="178 1535 778 1773"> <p>IMPORTANT</p> <p>Ensure lift table casters are locked whenever loading and unloading the subframe from the lift table.</p> </div> |  |

TOOL USE INSTRUCTION - BATTERY SUPPORT JIG

| | | |
|----------|--|--|
| <p>1</p> | <p>Remove 4x subframe support posts.</p> <p>Store posts laying flat on top of lift table or off to the side.</p> |  |
| <p>2</p> | <p>Install 4x battery lift beams into the ends of the cross bars.</p> <p>Secure beams in place using provided quick release pins.</p> <div data-bbox="182 846 776 1035" style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>IMPORTANT</p> <p>Confirm pins are fully engaged with both sides of the cross beam.</p> </div> |  |
| <p>3</p> | <p>Prep the HV battery for removal according to the service procedure.</p> <p>Battery fasteners located within the contact zone of the tool may need to be removed.</p> | |
| <p>4</p> | <p>Roll lift table under the vehicle and slowly raise until 4x pads are contacting the pack flange in the areas shown.</p> <p>Remove remaining fasteners and install shoulder bolts according to service procedure.</p> <p>Slowly and carefully lower table until pack is supported on shoulder bolts.</p> |  |





MAINTENANCE & STORAGE

| TASK | FREQUENCY |
|---|------------------|
| Battery jig - visually inspect riser pads for signs of damage or excessive wear. Order replacement pads as needed. | Before every use |
| Subframe jig - visually inspect quick release pins for signs of damage or excessive wear. Order replacement pins 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 | Quick Release Pin $\frac{3}{8}$ " dia x 3.5" L  | McMaster-Carr | 98320A395 |
| 2 | Battery Jig Riser Pad  | Snap-On Punchout | TSN00553-213 |





CAUTION

Risk of Pinch Point - keep hands and fingers clear of all moving parts.



WARNING

Risk of minor injury

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

REVISION LOG

| REV | DATE | CHANGE DESCRIPTION |
|-----|-----------|--------------------|
| A | 4/28/2025 | Initial release |
| | | |

