TOOL USE INSTRUCTION		
	TOOL NUMBER	TSN00541-300-C
RIVIAN	TITLE	BATTERY LIFT BEAM
	REV - DATE	REV C - 11/26/2024

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TOOL FUNCTION

LIFT BEAM TO ASSIST WITH LIFTING BATTERY PACK VIA FORKLIFT OR OVERHEAD GANTRY





OVERVIEW

SPECIFICATIONS

RATED CAPACITY: 3000 lbs

MODEL NO: 27F-1.5-37/53

WEIGHT: 260 lbs

CERTIFICATION: ASME BTH-1, DESIGN CATEGORY B, SERVICE CLASS 2

LABOR CODES

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

OTHER TOOLS REQUIRED

TSN00553 - BATTERY LIFT TABLE JIG

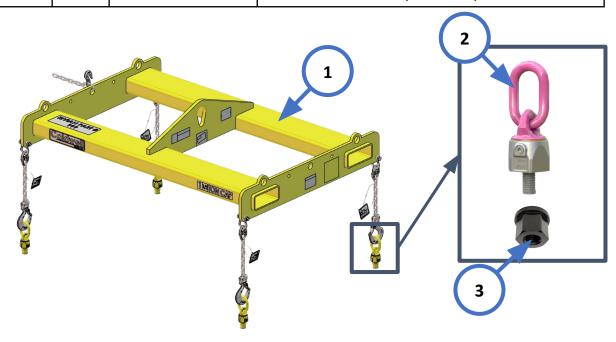
TSN00523 - PORTABLE GANTRY, 2 TON CAP

TSN00522 - CHAIN HOIST

TSN00519 - FORK LIFT

COMPONENT GUIDE

ITEM	QTY	RIVIAN TOOL ID	DESCRIPTION
1	1	TSN00541-300	BATTERY LIFT BEAM ASSEMBLY
2	4	TSN00541-202	M16 SWIVEL HOIST RING
3	4	TSN00541-203	M16 FLANGE NUT (DIN 6331)







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, injury, and death.

SAFETY GUIDELINES

1	Do not exceed rated capacity
2	Inspect all chain slings and lift hardware for signs of damage prior to every use. Ensure chain slings are straight and free of twists prior to loading.
3	Ensure pathway is clear before transporting with forklift or lift table.
4	Do not move gantry while pack is lifted.
5	Do not use tool for purposes other than those outlined in this document.



PACK VARIANT	VEHICLE	LIFT METHOD	LIFT POINTS
C1 9 Module NCA	R1 2022-2024 EDV 2022		FRONT FASTENER HOLE# 1 2 3 4 5 6 7 8 9 10 11 12
Bengal LFP	EDV 2023+		FRONT FASTENER HOLE# 1 2 3 4 5 6 7 8 9 10 11 12
C3 7 and 9 Module NCA	R1 2025+		FRONT FASTENER HOLE# 1 2 3 4 5 6 7 8 9 10 11 12 13
Baltic LFP	R1 2025+		FRONT FASTENER HOLE# 1 2 3 4 5 6 7 8 9 10 11 12 13









1	Review LIFT CONFIGURATION GUIDE to confirm lift method and attach points for the battery variant you are lifting. If using FORK LIFT > proceed to step 2 If using GANTRY > jump to next section	
2	Install (4x) swivel hoist rings to specified locations along flange of the battery according to LIFT CONFIGURATION GUIDE Thread on flange nut and torque to 60 Nm	Swivel Hoist Ring Battery Flange Flange Nut
3	Use forklift to pick up lift beam in orientation shown	
	Wrap chain around the forklift mast and clip to secure the tool to the lift.	





4	Use forklift to raise the lift beam and position over the center of the pack.	CALIMITIO G. BESS 1. TOX CAP
5	Attach the (4x) lift beam hooks to the hoist rings Align body of the hooks parallel to the side of the pack enclosure to prevent rubbing and damage to the pack	reconstant a hare effort of the first of the
6	Slowly begin to raise the hoist until the chains are taut and then PAUSE Check chains and hoist rings to ensure there are no twists or binding Check that lift hardware is not clashing with the pack enclosure Confirm load is well balanced Lower the load to correct any problems before proceeding.	
7	Lower pack either into crate or onto Battery Lift Table for transport as needed. Ensure pack is properly seated on support surfaces before releasing load and removing lift beam.	





TOOL USE INSTRUCTION - GANTRY Review LIFT CONFIGURATION GUIDE to confirm lift method and attach points for the battery variant you are lifting. 1 If using GANTRY > proceed to step 2 If using FORK LIFT > refer to previous section Install (4x) swivel hoist rings to specified locations along flange of the battery according to LIFT 2 **CONFIGURATION GUIDE** Thread on flange nut and torque to 60 Nm Attach the hoist lift hook to the center point of the lift beam. **IMPORTANT** For REV A tools, ensure lift 3 point is in center position and

pin is fully engaged

NOTE

Center lift point is fixed for later revisions of the tool







4	Use hoist to raise the lift beam and position over the center of the pack.	
5	Attach the (4x) lift beam hooks to the hoist rings Align body of the hooks parallel to the side of the pack enclosure to prevent rubbing and damage to the pack	Proceeding 1 and 100 cm of
6	Slowly begin to raise the hoist until the chains are taut and then PAUSE • Check chains and hoist rings to ensure there are no twists or binding • Check that lift hardware is not clashing with the pack enclosure • Confirm load is well balanced Lower the load to correct any problems before proceeding.	IMPORTANT If using REV A tool, the center lift point should not be adjusted to balance the load
7	Lower pack either into crate or onto Battery Lift Table for transport as needed. Ensure pack is properly seated on support surfaces before releasing load and removing lift beam.	PARL PHER PARL PHER PROPERTY OF THE PARL PHER



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BASIC MAINTENANCE GUIDE

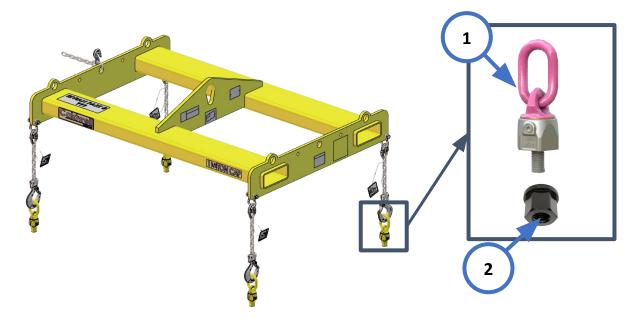
TASK	FREQUENCY	IMAGE
Visually inspect all lift attachments and chain slings for signs of damage, cracks, elongation. Replace as necessary.	Before every use	
Verify presence of (4x) Chain slings, (4x) swivel hoist rings and (4x) flange nuts	Before every use	
Visually inspect the threads of the swivel hoist rings and flange nuts for cross-threading, damage, or bending	Before every use	
Clip 4x lift hooks to the loops provided at the top of the lift beam for safe storage	After every use	
Remove the 4x hoist rings from the pack and store them facing inward at locations shown	After every use	



SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	Swivel Hoist Ring	RUD VWBG-V 1.3t M16 35mm L - or - McMaster-Carr #4137N14
2	Flange Nut, M16 DIN6331	McMaster-Carr # 90360A117







DANGER

Risk of major injury such as

- fire
- chemical or poison
- crushing / maiming
- death

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
А	11/26/2024	Initial release
С	06/03/2025	Updated to Rev C config, added McMaster PN for swivel hoist ring

