

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER TSN01706-300-A

TITLE LFP BATTERY - MODULE GRIPPER

REV - DATE REV A - 01/24/26

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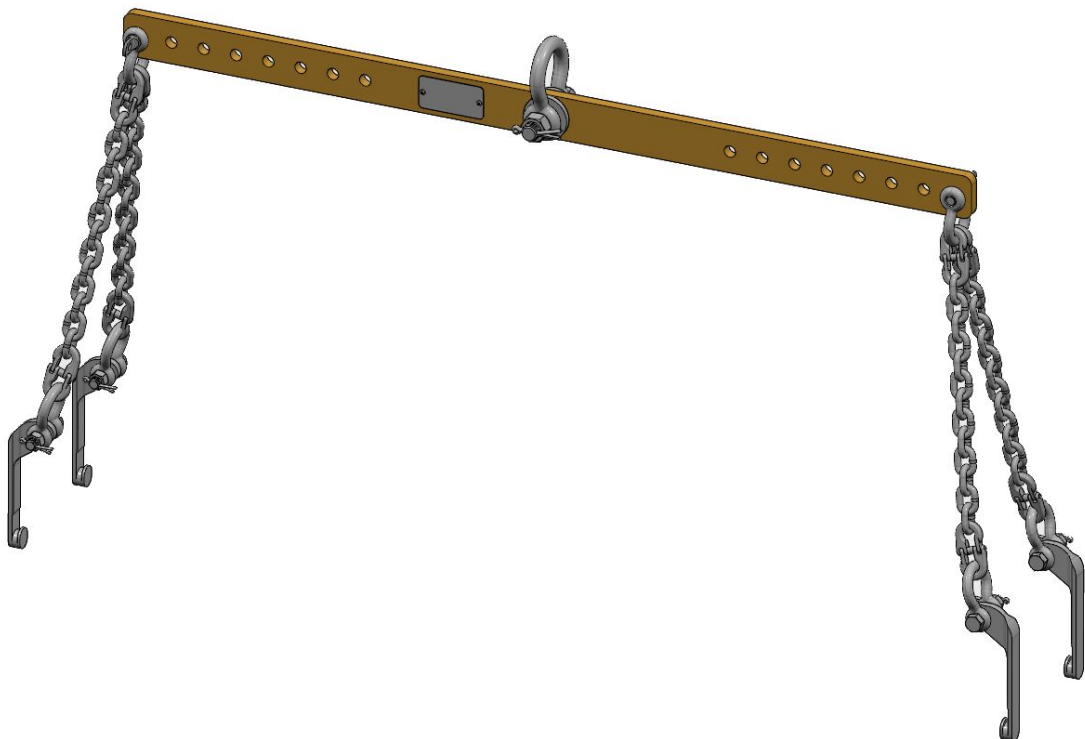
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TOOL FUNCTION

USED TO LIFT LFP MODULES OUT OF HV BATTERY ENCLOSURES



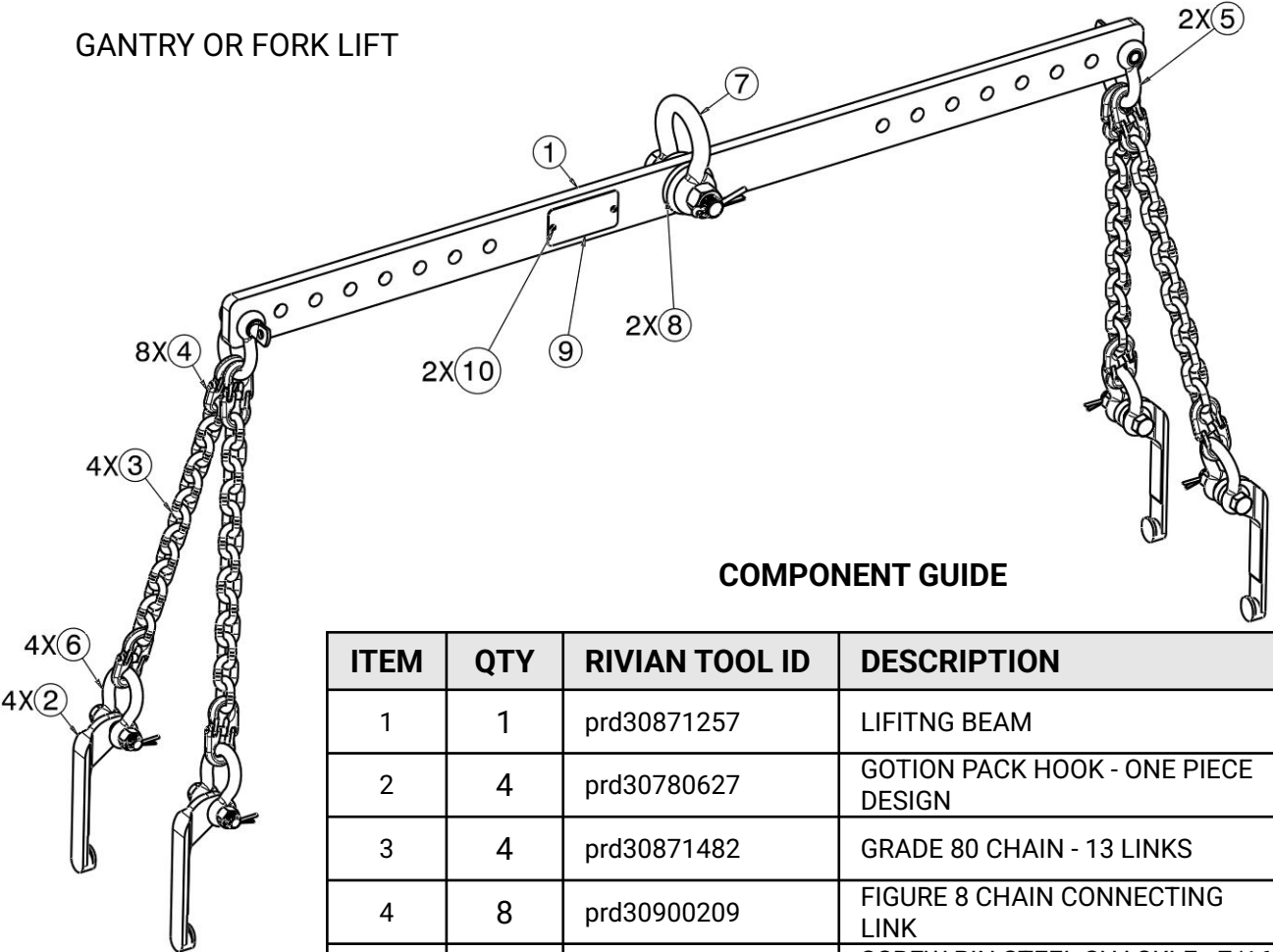
OVERVIEW

SPECIFICATIONS

Weight: 35 LBS
Overall Dimensions: 44"X16"X6" (IN CASE)
Load Rating: 500LBS

OTHER TOOLS REQUIRED

GANTRY OR FORK LIFT



COMPONENT GUIDE

ITEM	QTY	RIVIAN TOOL ID	DESCRIPTION
1	1	prd30871257	LIFITNG BEAM
2	4	prd30780627	GOTION PACK HOOK - ONE PIECE DESIGN
3	4	prd30871482	GRADE 80 CHAIN - 13 LINKS
4	8	prd30900209	FIGURE 8 CHAIN CONNECTING LINK
5	2	prd30905800	SCREW PIN STEEL SHACKLE - 7/16 INCH
6	4	prd30905801	SAFETY PIN STEEL SHACKLE - 7/16 INCH
7	1	prd31349907	SAFETY PIN STEEL SHACKLE - 5/8 INCH
8	2	prd31401439	WASHER - 0.812X0.25X2.0 B0 STL
9	1	prd31642840	LASER ENGRAVED ID PLATE
10	2	prd31776320	BOLT - M3X0.5X8 BTN HX SS



**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	Follow all instructions to completely discharge the battery pack before attempting to remove modules	
2	Keep hands clear of pinch points when loading tension onto the hooks and lifting the module	
3	Wear all appropriate PPE when dealing with an open battery pack.	
4	Never walk beneath lifted objects	

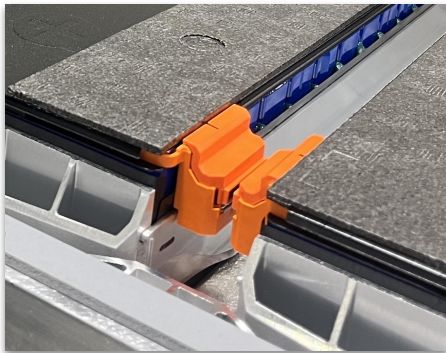
**PPE REQUIRED**

- closed toe shoes (ASTM F2413-18)
- gloves
- ASTM class 0 electrical-protection gloves

**DANGER**

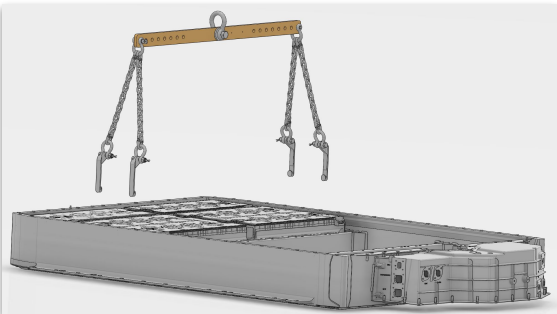
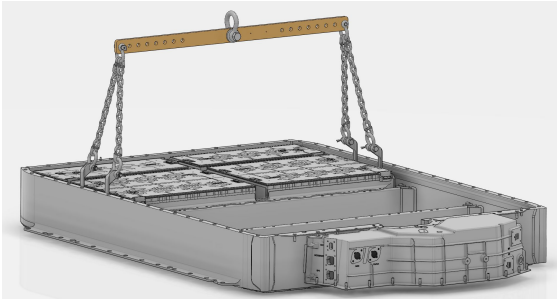
- Risk of major injury such as
- crushing / maiming
 - death

INITIAL SETUP

1	Once the pack is removed from the vehicle, follow all instructions to fully discharge and disassemble the pack to the point where the modules can be freely lifted from the housing. FOLLOW ALL SAFETY PROCEDURES!	
2	Replace terminal caps after removing busbars	
3	Ensure work area is clear of obstructions and potential tripping hazards.	
4	Determine where you will be placing the modules after removal and agree upon a path and method for moving and placing them before work is performed.	

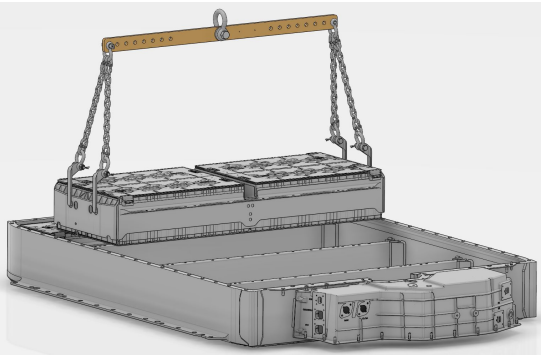


TOOL USE INSTRUCTION

1	With the lifting beam secured to the lifting device, center the beam over the module to be lifted.	
2	Lower the lifting beam down until all 4 module hooks can be placed into the lifting slots.	
3	With 2 techs, one on each side, slide the lifting hooks into the outermost slots on the module.	
4	The techs should keep upward tension on the hooks while the beam is raised until the slack is out of the chains to prevent the hooks falling out. NOTE - It is important to hold the hooks in a way that prevents pinching when tension is applied.	



TOOL USE INSTRUCTION

5	Once the chains are tight, the techs can stand by as the module is lifted from the housing. Some assistance may be needed to keep the module level as it is being pulled from the housing.	
6	With the module clear of the housing, it can be moved to the designated storage spot and set down.	
7	After the chains are slack, the lifting hooks can be removed and the lifting beam moved back to remove another module if needed.	



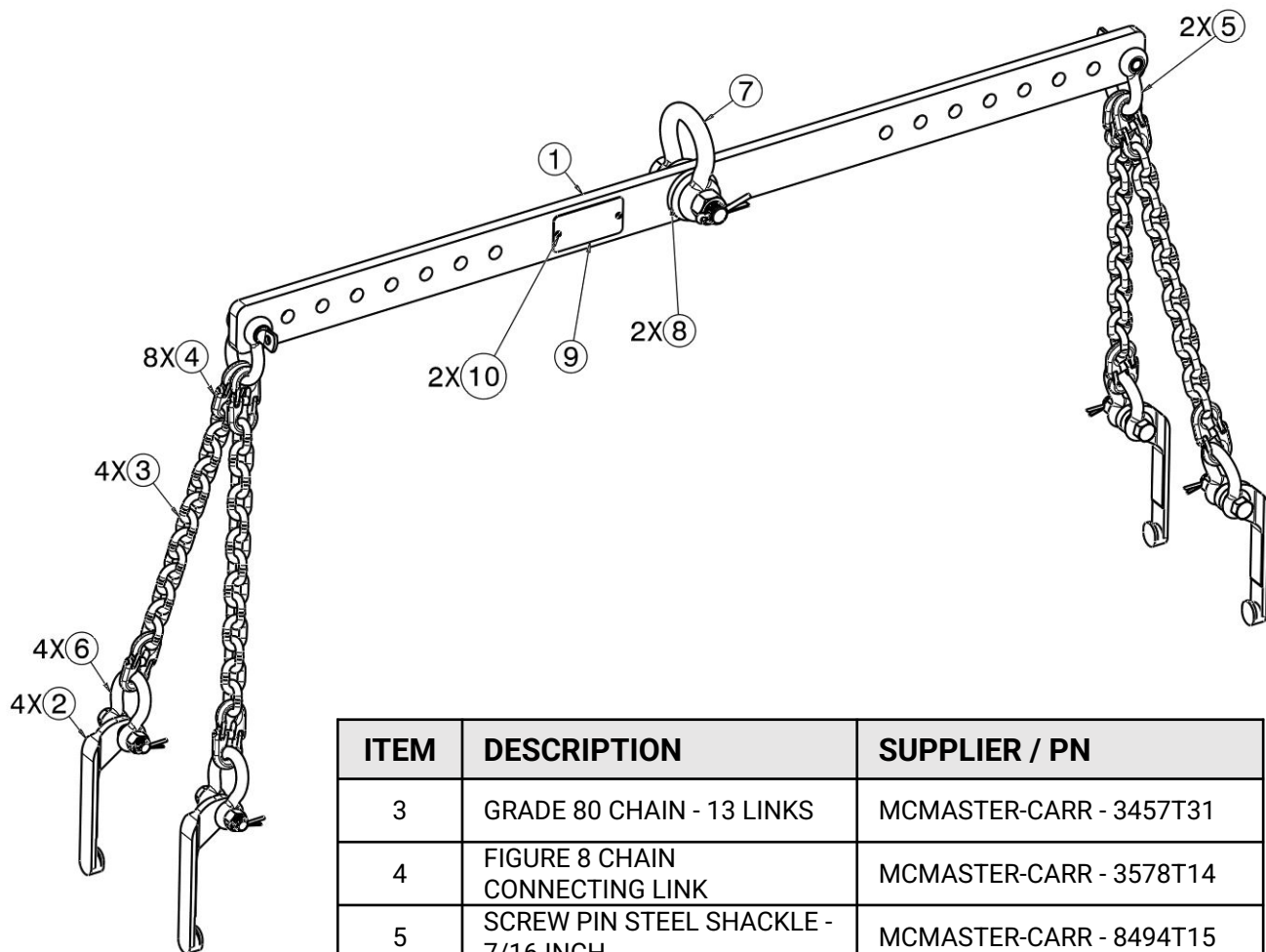
BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect the tool for any damaged or worn components.	Before Each Use
Ensure all cotter pins and shackle nuts are in place and secure.	Before Each Use
Return the lifting beam to its storage case, placing it within the foam and secure all latches.	After Each Use



SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING



ITEM	DESCRIPTION	SUPPLIER / PN
3	GRADE 80 CHAIN - 13 LINKS	MCMASTER-CARR - 3457T31
4	FIGURE 8 CHAIN CONNECTING LINK	MCMASTER-CARR - 3578T14
5	SCREW PIN STEEL SHACKLE - 7/16 INCH	MCMASTER-CARR - 8494T15
6	SAFETY PIN STEEL SHACKLE - 7/16 INCH	MCMASTER-CARR - 8494T29
7	SAFETY PIN STEEL SHACKLE - 5/8 INCH	MCMASTER-CARR - 8494T32
8	WASHER - 0.812X0.25X2.0 BO STL	MCMASTER-CARR - 2140A124
10	BOLT - M3X0.5X8 BTN HX SS	MCMASTER-CARR - 92095A181



TROUBLESHOOTING

PROBLEM	SOLUTION
Hooks do not hang evenly	make sure the chains are not twisted/tangled





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



CAUTION

Risk of Pinch Point

- keep hands and fingers clear of all moving parts.



PPE REQUIRED

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
A	5/18/2026	Initial release

