TOOL USE INSTRUCTION

RIVIAN		
	TOOL NUMBER	TSN01178-100
	TITLE	HYDRAULIC CRANE, 1.1 TON CAPACITY
	REV - DATE	REV 1, 9/1/26

CONTENTS

TOOL FUNCTION

USED TO LIFT DRIVE UNIT FROM SUBFRAME AND OR SHIPPING CONTAINER DURING SERVICE.

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	**DANGER** Risk of major injury such as • crushing / maiming • death	
2	**WARNING** Risk of minor injury	
3	**CAUTION** Risk of • damage to vehicle or property • voiding warranty	
4	**CAUTION** Risk of Pinch Point • keep hands and fingers clear of all moving parts.	
5	**PPE REQUIRED** • eye protection • closed toe shoes • gloves	

SPECIFICATIONS

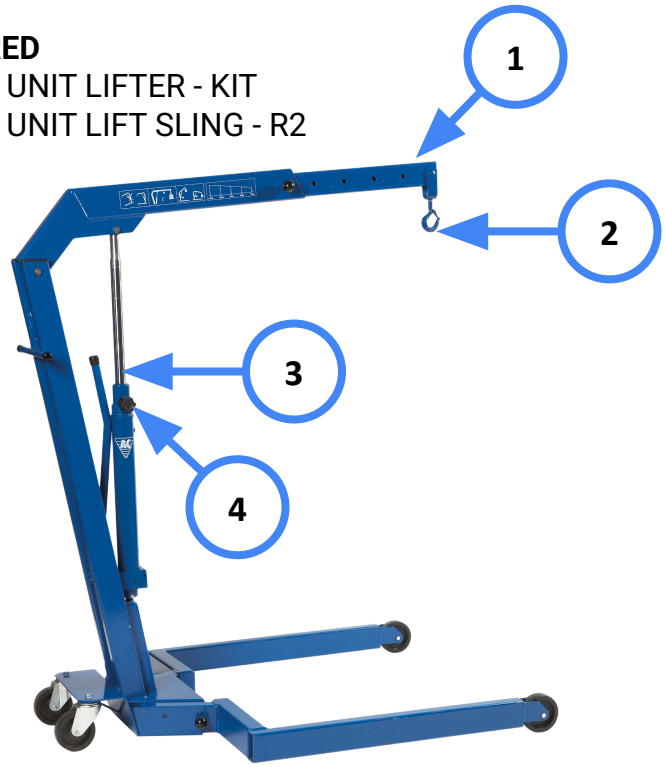
Capacity

- 1100 kg (~2,400 lbs) at shortest lift arm length
- 700 kg (~1540 lbs) at longest lift arm length

Jib arm - 955 - 1375 mm
Frame length - 1420 mm
Frame width - 1095 mm
Frame height - 125 mm
Height - 1520 mm
Inner width - 970 mm
Weight - 75 kg

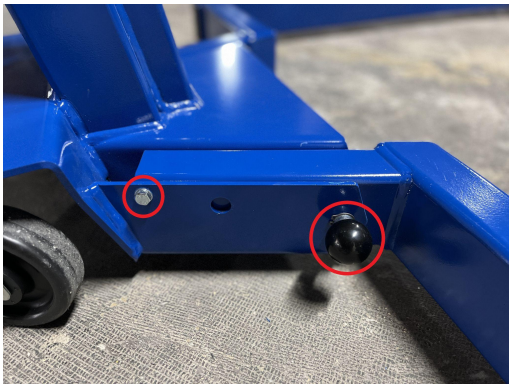
OTHER TOOLS REQUIRED

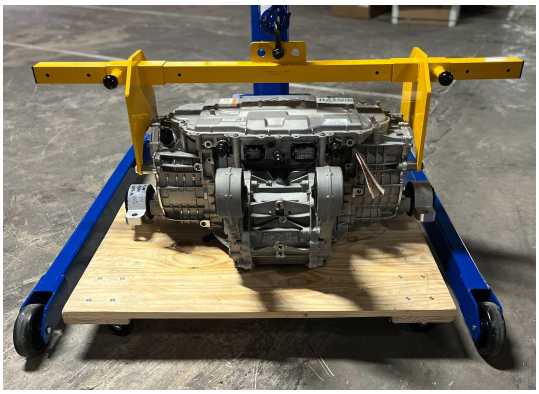
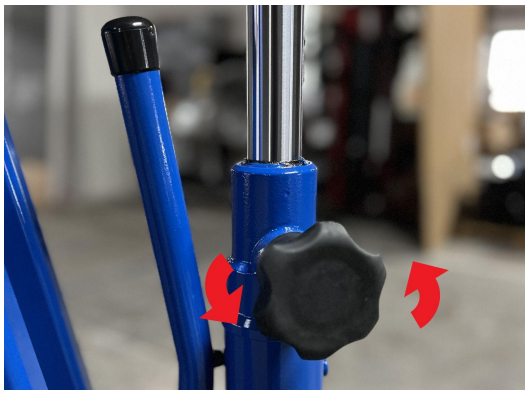
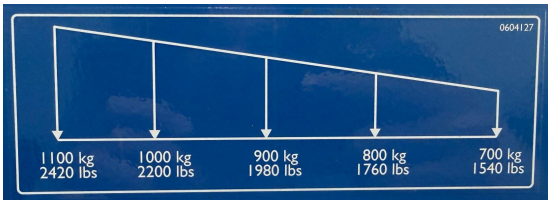
TSN00994-300 - DRIVE UNIT LIFTER - KIT
TSN01640-300 - DRIVE UNIT LIFT SLING - R2

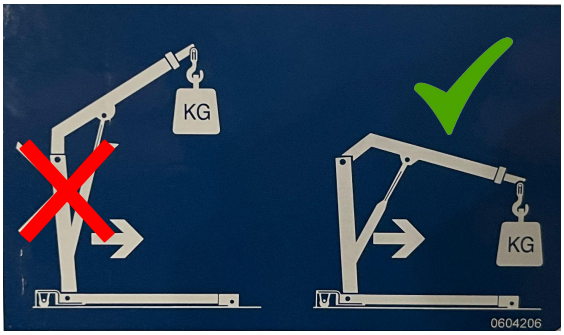


COMPONENT GUIDE

ITEM	DESCRIPTION
1	Jib Arm
2	Lifting Hook
3	Hydraulic Pump Handle (for raising hoist)
4	Hydraulic Release Knob (for lowering hoist)

1	Install legs to the frame.	
2	Install pivot bolts & retaining pins.	

1	Position the drive unit on dolly or shipping crate so it is centered between the legs of hoist.	
2	Lower Jib Arm by rotating the release knob counter clockwise. Keep fingers clear of the hoist upright when operating the knob. 	
3	Adjust the Jib Arm as needed. The arm should only be extended enough to safely lift the drive unit. The further the lift arm is extended, the lower the rated capacity (see diagram on lift arm). Always reinstall the cotter pin after adjusting the arm.	 

4	Connect lift hook to the lifting fixture ensuring the clasp on the hook is fully closed. For specific setup of lifting fixtures, see TUI's for TSN00994-300 and TSN01640-300	
5	Lift the Drive Unit by pumping the handle.	
6	When moving the Hoist while carrying a load, keep the load as low as possible.	

7	When not in use, the legs of the hoist can be collapsed. Remove the cotter pin and locking pin from the leg.	
8	Fold the leg upward and reinstall the locking and cotter pins	
9	Repeat process for other leg	

BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect crane for damage.	Daily
Grease pump piston thrust pad, and oil handle axle and main jib axle. Also inspect the crane for unusual wear and tear.	Monthly
Oil refill: Refill through the filling hole in the cylinder using an oil can. Correct oil level is up to lower edge of filling hole with the jib fully down. Too much oil causes poor pumping. Quantity of oil: 0.7 l Any good hydraulic oil of viscosity ISO VG 15 can be used. NEVER USE BRAKE FLUID!	As Needed
Return to designated storage location.	After Each Use

PROBLEM	SOLUTION
The crane does not lift to maximum position but the pump retains pressure.	Refill with oil.
Poor pumping (half strokes).	Vacuum in the reservoir. Loosen the filling plug and verify oil level.
The load is dropping.	Verify release handle is closed and release spring (dead man's control) is properly adjusted. Pre-tension of spring is max. half a turn. If this is not the cause, then the pump needs repair (worn seals or valves).

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

REV	DATE	CHANGE DESCRIPTION
1	9/1/2026	Initial release