TOOL USE INSTRUCTION		
	TOOL NUMBER	TSN00781-300-B
RIVIAN	TITLE	KIT, DRIVE UNIT CRADLE
	REV - DATE	REV B - 6/20/2023

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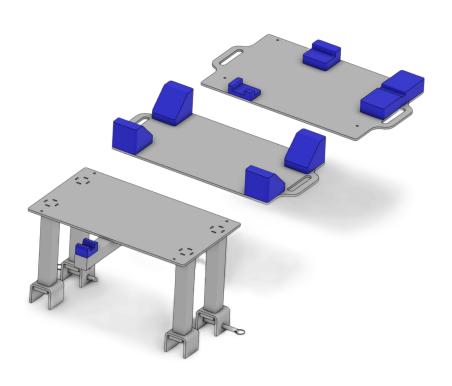
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TOOL FUNCTION

TOOL IS USED TO SUPPORT THE ORIGIN AND THE ENDURO FRONT DRIVE UNIT DURING INSTALLATION/REMOVAL FROM AN EDV-500 OR EDV-700.





SPECIFICATIONS

Weight: ~22.7 kg

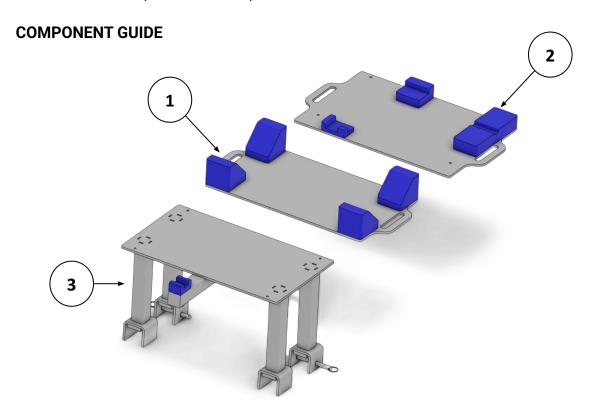
Overall Dimensions: 576 mm x 387 mm x 404 mm

LABOR CODES

465515011, Subframe, Front (Remove and Reinstall) 381010010, Drive Unit, Front (Remove and Replace)

OTHER TOOLS REQUIRED

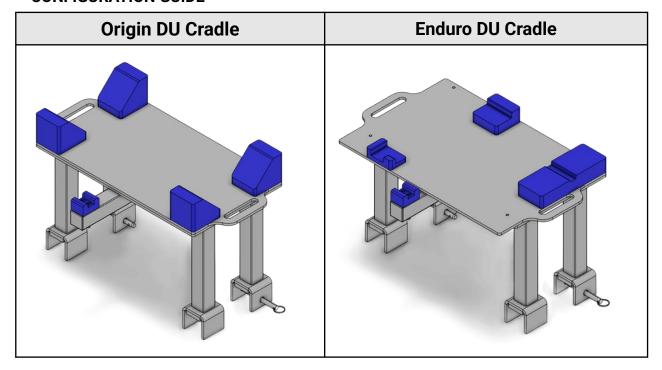
TSN00542-300-B (NCT04609326) - SUBFRAME SUPPORT JIG, (R1/RPV) TSN00483-100-A (NCT04663342) - POWERTRAIN LIFT, 2500 LB. CAP.



ITEM	QTY	NAME	TOOL P/N
1	1	DRIVE UNIT CRADLE, ORIGIN PLATE	TSN00781-201-A
2	1	DRIVE UNIT CRADLE, ENDURO PLATE	TSN00781-202-A
3	1	BASE, DRIVE UNIT CRADLE	TSN00781-200-A



CONFIGURATION GUIDE







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	PPE Required	
	 Eye Protection, Gloves, Closed Toe Shoes 	
	CAUTION:	٨
2	 Risk of damage to wire harnesses and coolant hoses when lowering the drive unit. Use a spotter to make sure all components are clear prior to raising or lowering the tool. 	
	PRIOR TO USAGE:	٨
3	 Visually inspect drive unit cradle for damage prior to use. Operate the powertrain lift to ensure functionality. Refer to manufacturer's specifications for proper maintenance. Verify presence of (2x) 7/16" Dia, 3-1/2" long, quick release pins. 	
	CAUTION:	
4	 Do not perform procedure if any equipment is missing or damaged. 	



Step	Directions	Visual Aid
1	Setup subframe cross members as shown.	Long crossmember = Position 1 Short crossmember = Position 2 (1) Long crossmember = 5 holes exposed (2) Short crossmember = 6 holes exposed
2	Lower the EDV FRT subframe from the vehicle. Reference the service manual for procedure, labor code 465515011.	



TOOL USE INSTRUCTION

Step	Directions	Visual Aid (Origin)	Visual Aid (Enduro)
3	With the subframe still on the powertrain lift table, attach the cradle to the subframe fixture as shown using qty. 2, 7/16" Dia, 3-1/2" long, quick release pins.	FWD	FWD
4	Ensure all 12v harnesses and coolant lines are disconnected from the drive unit. Reference the service manual for procedure, labor code 381010010.		



TOOL USE INSTRUCTION

Step	Directions	Visual Aid (Origin)	Visual Aid (Enduro)
5	Slowly raise the powertrain lift up to the drive unit, aligning the center support with the bottom side of the gearbox housing. Note: The center support can be adjusted forward and backward to make contact with the underside of the Origin gearbox housing. This support is not used on the Enduro DU. Hand torque the M6 nuts (x2) after support is adjusted.	AOUSTANIA PRO	



TOOL USE INSTRUCTION

Step	Directions	Visual Aid (Origin)	Visual Aid (Enduro)
6	The drive unit is properly supported when the motor housing makes contact with all of the supports	1700	
7	Remove bolts attaching drive unit to EDV frame and slowly lower the drive unit from the vehicle. Note: Always have a spotter on each side of the vehicle when lowering the drive unit to make sure all wire harnesses and coolant hoses clear the vehicle.		



MAINTENANCE & STORAGE

Link Here (If applicable) to Tooling Maintenance Guide (TMG)

BASIC MAINTENANCE GUIDE

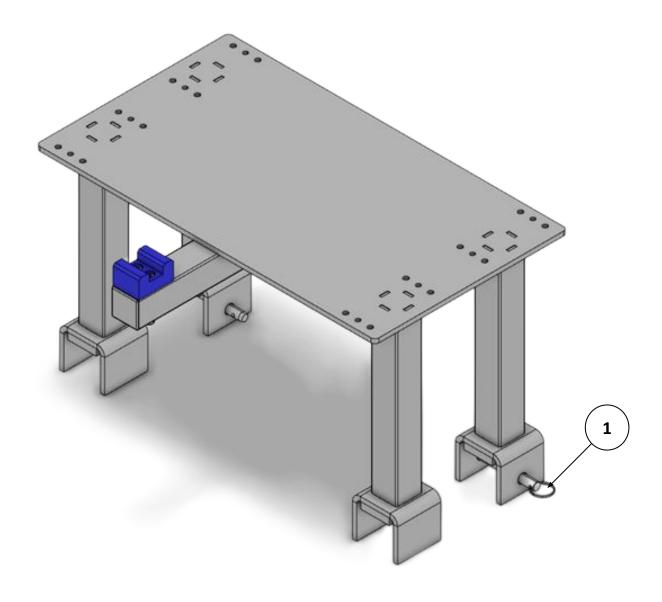
TASK	FREQUENCY
Verify all components are accounted for	Before and after every use
Inspect all components for damage	Before and after every use



SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	QUICK RELEASE PIN - 7/16" DIA, 3-1/2" LONG, 18-8 SS	MCMASTER-CARR 98404A467





TROUBLESHOOTING

PROBLEM	SOLUTION
If the fitment of either TSN00781-201-A ASSY, ORIGIN CRADLE BASE or TSN00781-202-A ASSY, ENDURO CRADLE BASE does not sit flush onto TSN00781-200-A BASE, DRIVE UNIT CRADLE	Enlarge the mating dowel holes accordingly by using a drill and drill bit.





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

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
А	8/12/2022	Initial release
В	6/20/2023	Updated Tool Use Instructions to match latest tool revision.

