TOOL USE INSTRUCTION

RIVIAN		
	TOOL NUMBER	TSN00585-102-A
	TITLE	DJ PRODUCTS VP12K, VEHICLE MOVER
	REV - DATE	REV A 02-02-2026

CONTENTS

TOOL FUNCTION

To move inoperable vehicles that cannot be driven.

WARNING

Risk of minor injury

CAUTION

Risk of

- damage to vehicle or property
- data disruption
- voiding warranty

SAFETY GUIDELINES

1	**ALWAYS have a separate person in the driver's seat while moving a vehicle.**
2	Special care and attention should be used when operating this machine on slopes. Follow the guidelines as outlined in this document.
3	Only trained and informed technicians should operate this machinery. Reference Rivian's training material before operating.
4	Always check the condition of the vehicle before lifting. The vehicle needs to be in a rollable condition in order to use the vehicle mover.

SPECIFICATIONS FROM DJ PRODUCTS:

Rivian-Specific Operating Parameters (VP12K)

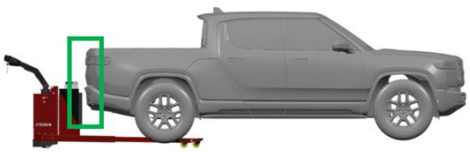
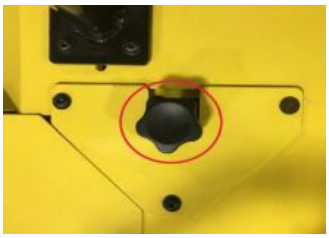
The following information applies specifically to Rivian applications of the CarCaddy VP12K Vehicle Puller:

- **Capacity:** 12,000 lbs
- **Maximum Axle Weight on the Unit:** 7,000 lbs
- **Performance on Flat Surfaces:** Up to 12,000 lbs
- **Performance on 3° Incline (5.24% Grade):** Up to 10,000 lbs with a duty cycle of one move of 50 yards every 15 minutes
- **Performance on 6° Incline (10.51% Grade):** Up to 8,000 lbs with a duty cycle of one move of 50 yards every 15 minutes

These limits are based on safe operating practices and the intended design parameters of the Rivian CarCaddy VP12K.

SPECIFICATIONS FROM DJ PRODUCTS:

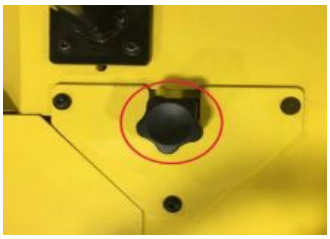
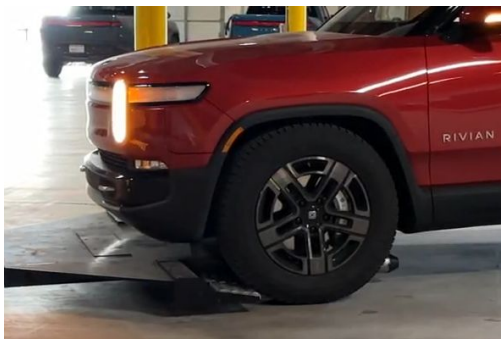
#	Item	CarCaddy Vehicle Puller 12K
1	Total Weight (with batteries)	635 kg (1400 lbs)
2	Frame	Heavy-Duty Steel
3	Motor Power	2.02 kw (2.75HP)
4	Maximum Weight of Vehicle to be Moved	5.443 kg (12,000 lb)
5	Machine Dimensions	(See Drawing)
6	Differential/Transaxle Rating	2041 kg (4500 lbs)
7	Battery Voltage	3 (12 V)
8	Battery Charger	Onboard
9	Battery Discharge Indicator	•
10	Speed (Forward and Reverse)	0-4,9 kmh (0-3 MPH)
11	Speed Control	Variable-speed butterfly thumb control
12	Speed Controller	High Tech
13	Sigmagauge Display	•
14	Adjustable Acceleration/Braking	•
15	Automatic Braking	•
16	Steering	Wagon Wheel
17	Emergency-Stop switch	•
18	Flashing Strobe Light	○
19	Power Switch with Security Key	•
20	Horn	○
21	Ride-On Feature	○
22	Electric Actuator	×
23	Hydraulic Telescoping	○ 3629 kg (35,5 kN, 8,000 lbs)
1	Drive Tyre(s)--Number; size; type (D: Diameter, W: Width)	One (1) D: 300 mm (11,81 in) W: 100 mm (3.94 in)
2	Steer/Caster Tyre(s), Solid (D: Diameter, W: Width)	One (1) D: 33 mm (11,81 in) W: 100 mm (3.94 in)
	• - Standard Equipment	
	○ - Optional Equipment	
	× - Equipment Not Available	

1	**A PERSON MUST ALWAYS BE IN THE DRIVER'S SEAT, READY TO BRAKE AND CONTROL THE VEHICLE IN THE EVENT OF LOSS OF TRACTION OR THE VEHICLE COMING OFF OF THE VEHICLE MOVER.**	
2	Approach the vehicle from the rear until the mover makes contact with the rear tires. NOTE: Use the telescopic extension to ensure the unit has clearance to the vehicle's bumper. 	
3	Engage the rear wheels using the press arms on the mover.	

4	Carefully move the vehicle as required.	
5	The operator in the driver's seat should keep the front wheels pointed straight using the steering wheel. Continue keeping the front wheels straight throughout the duration of the vehicle moving process.	
6	When finished, release the press arms and safety reverse the mover away from the vehicle.	

Depending on the state of the vehicle, follow the chart below for initial steps.

12V STATUS	VEHICLE PREPARATION
Working	Prepare the vehicle for towing
Not Working, EPB Release Tool Available	Use EPB release tool to release parking brake

	A PERSON MUST ALWAYS BE IN THE DRIVER'S SEAT, READY TO BRAKE AND CONTROL THE VEHICLE IN THE EVENT OF LOSS OF TRACTION OR THE VEHICLE COMING OFF OF THE VEHICLE MOVER.	
1	Approach the vehicle from the front until the mover makes contact with the front tires NOTE: Use the telescopic extension to ensure the unit has clearance to the ve 	
2	Engage the front wheels using the press arms on the mover.	

3	Carefully move the vehicle as required.	
4	When finished, release the press arms and safety reverse the mover away from the vehicle.	

The vehicle mover can be used with GoJaks only on **FLAT LEVEL GROUND.**

Do not try to operate a vehicle supported by GoJaks up a ramp or slope.

1. When using GoJaks, at least (2) additional people are needed.
    - Have at least 1 person at each go-jack location to help move and/or steer the vehicle as needed.

2. Pay special attention when turning, the GoJaks can drift and cause unwanted trajectories.

Moving vehicles up slopes requires extra attention and safety precautions. Follow the additional guidelines below to safely and effectively move vehicles up slopes.

The maximum slope capability as defined by DJ Products is 6° (degrees) under **IDEAL CONDITIONS.**

1. The ramp surface should be dry and free of debris.
   - Any moisture from rain, weather etc. will greatly reduce traction and may make it impossible to pull a vehicle up the ramp.

2. Operators should keep momentum up the entire length of the ramp. Stopping prematurely or erratically operating the throttle may cause loss of traction and slippage.
   - Pay attention to ramp thresholds both at the bottom and top of ramps. These thresholds can provide extra resistance causing loss of traction at the vehicle mover.

3. If loss of traction occurs and you need to start again, slowly lower the vehicle back down the ramp.
   - Have the person in the driver's seat feather the brakes as needed.

4. If conditions do not allow the vehicle mover to be used on the slope, use the flat-tow method instead.

BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect for damage: ● Drive wheel ● Caster wheels	MONTHLY
● Lubricate the castor bearings with grease ● Pump grease into grease fittings with grease gun ● Lubricate axle bearings and swivel bearings ● Check torque on all fasteners and hardware ● Use fastener-torque specifications below ● Check, tighten, and lubricate all battery-post and cable connections ● Check hydraulic fluid level ● Check//inspect hydraulic hoses/fitting ● Inspect UMHW slides for wear and damage	QUARTERLY

Consumables	
Grease	Multipurpose
Battery water	Distilled water only (if required)
Hydraulic Fluid	Medium duty iso 46 hydraulic fluid
Threaded Fasteners and Torque Specifications (Dry)	
1/4inch nuts/bolts	7.5 Nm (66 lbin)
5/16inch nuts/bolts	15 Nm (11 lbft)
3/8inch nuts/bolts	27 Nm (20 lbft)
7/16inch nuts/bolts	41 Nm (30 lbft)
1/2inch nuts/bolts	68 Nm (50 lbft)
7/8inch nuts/bolts	258 Nm (190 lbft)
BatteryCable fasteners	5.98.0 Nm (5070 inlb)

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
A	02/02/2026	Initial release