

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER TSN00547-300-C

TITLE ELECTRONIC PARKING BRAKE RELEASE KIT

REV - DATE REV A - 03/06/2025

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TOOL FUNCTION

This tool is used to apply and release the electronic parking brake (EPB) using an external 12V power supply.



OVERVIEW

SPECIFICATIONS

Weight: 2 Lbs
Overall Dimensions: 300mm x 230mm x 100mm
Voltage Rating: 12V

LABOR CODES

140030017 - Parking Brake Manual Release

OTHER TOOLS REQUIRED

TSN00428-100-B: Wheel Chocks (or Equivalent)



COMPONENT GUIDE

ITEM	QTY	RIVIAN TOOL ID	DESCRIPTION
1	1	NCT04701588	12V Control Box
2	1	TSN00834-300-A	EPB Adapter Harness
3	1	N/A	12V Power Supply (Various Make/Model Depending on Tool Revision)










**WARNING**

Do not perform procedure if tool is damaged or missing parts. Consult the Rivian Service Tool Catalog for replacement components.

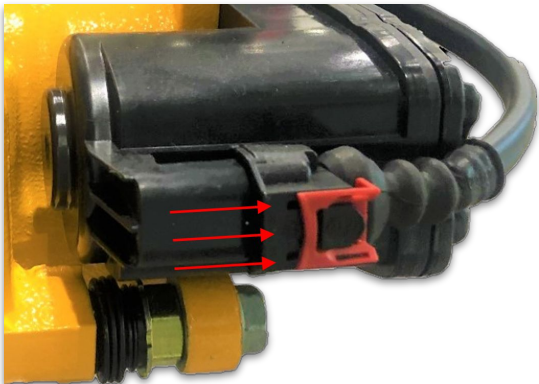

Failure to follow guidelines outlined in this document could result in injury and/or property damage.

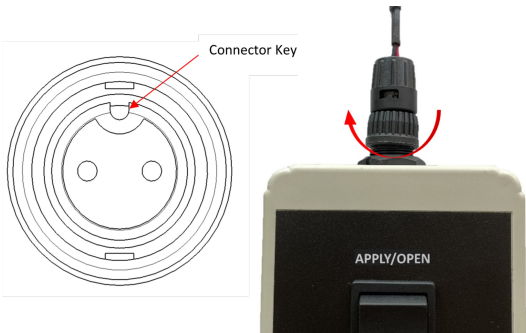

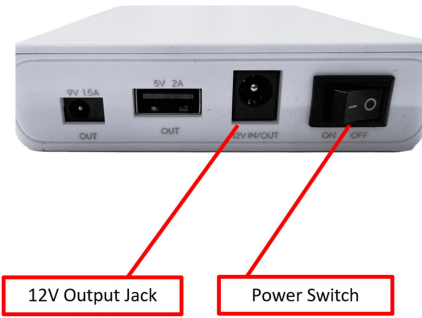
SAFETY GUIDELINES

1	PPE Required - Eye Protection, Gloves, Closed Toe Shoes.	
2	Risk of - permanent damage to the EPB and or tool. Tool is intended for use with specific service operations only. Refer to Labor Codes and Rivian Service Manual.	
3	Pinch Point - Keep hands and fingers clear of all actuators/moving parts.	
4	Danger - The vehicle must be securely placed on a lift or on level ground with the wheels chocked before releasing the EPB to prevent the risk of the vehicle rolling.	 
5	Danger - Find a safe and well lit area to perform work. If roadside, wear a reflective vest or set out road signs to warn other drivers.	 

IMPORTANT

Make sure the vehicle is in Park and wheel chocks are placed behind the wheels to prevent the vehicle from rolling away prior to operating the tool.


1	<p>Locate the electrical connector on the EPB and slide the connector lock (shown in red) away from the parking brake.</p> <p>NOTE: Lock is fragile, take care not to damage when using a pocket screwdriver or pick tool to release.</p>	
2	<p>To disconnect vehicle harness, depress the release tab while pulling connector away from parking brake.</p>	
3	<p>Install the EPB Adapter Harness to EPB, an audible click indicates a fully seated connector.</p>	

<p>4</p>	<p>Connect the EPB Adapter Harness to the 12V Control Box using the Universal Connector.</p> <p>Line up connector keys and rotate twist lock 1 quarter turn clockwise.</p>	
<p>5a</p>	<p>If using the Anti-Gravity Micro-Start (first generation XP-1 or XP-10), connect the DC Power Input lead on the 12V Control Box to the 12V Power Supply at the output jack labeled "12V 10A".</p> <p>Press the power button on the 12V Power Supply to activate the output jack.</p>	
<p>5b</p>	<p>If using the Melasta PS12-LI52, connect the 12V Control Box to the 12V Power Supply at the jack labeled "12V In/Out".</p> <p>Flip the power switch to ON to activate the output jack.</p>	

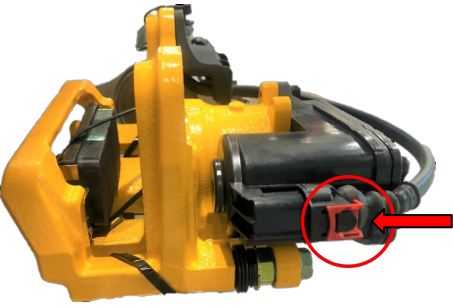

IMPORTANT

Do not use any power source other than the one provided with your tool kit. Alternate power sources can cause permanent damage to the tool or EPB.

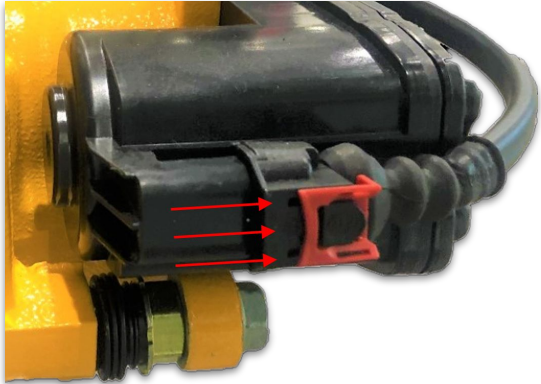

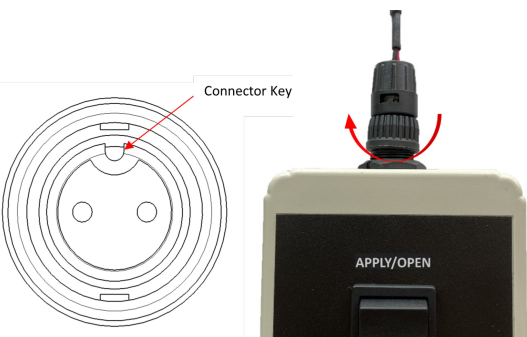



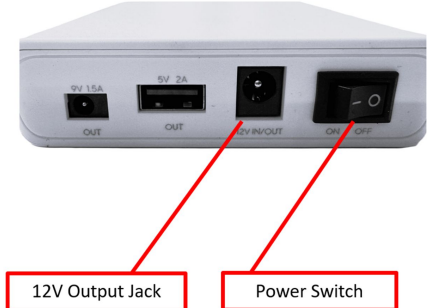
<p>6</p>	<p>Press and hold the “Release” button on the toggle switch. After 2 seconds, the control box will cut power to the EPB automatically.</p> <p>Check to see if the EPB is released enough for the wheel to move freely. If it does not, repeat the release and check process again until the wheel moves freely.</p> <p>NOTE</p> <p>Over releasing the EPB can cause permanent damage to the EPB piston.</p> <p>The 12V control box has a built-in timer relay that only allows the release button to be powered for 2 seconds at a time to help prevent damage.</p>	
<p>7</p>	<p>When tool operation is complete, detach EPB Adapter Harness from EPB.</p>	

TOOL USE INSTRUCTION - RELEASE PARKING BRAKE

9	Reconnect vehicle harness to EPB, an audible click indicates a fully seated connector.	
10	Slide connector lock toward EPB.	



1	<p>Locate the electrical connector on the EPB and slide the connector lock (shown in red) away from the parking brake.</p> <p>NOTE: Lock is fragile, take care not to damage when using a pocket screwdriver or pick tool to release.</p>	
2	<p>To disconnect vehicle harness, depress the release tab while pulling connector away from parking brake.</p>	
3	<p>Install the EPB Adapter Harness to EPB, an audible click indicates a fully seated connector.</p>	
4	<p>Connect the EPB Adapter Harness to the 12V Control Box using the Universal Connector.</p> <p>Line up connector keys and rotate twist lock 1 quarter turn clockwise.</p>	

<p>5a</p>	<p>If using the Anti-Gravity Micro-Start (first generation XP-1 or XP-10), connect the DC Power Input lead on the 12V Control Box to the 12V Power Supply at the output jack labeled "12V 10A".</p> <p>Press the power button on the 12V Power Supply to activate the output jack.</p>	
<p>5b</p>	<p>If using the Melasta PS12-LI52, connect the 12V Control Box to the 12V Power Supply at the jack labeled "12V In/Out".</p> <p>Flip-ON the power switch on the 12V Power Supply to activate the output jack.</p>	

IMPORTANT

Do not use any power source other than the one provided with your tool kit. Alternate power sources can cause permanent damage to the tool or EPB.

TOOL USE INSTRUCTION - APPLY PARKING BRAKE

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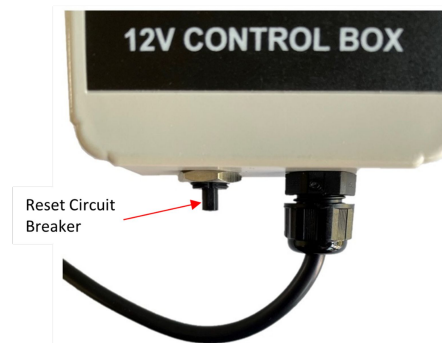
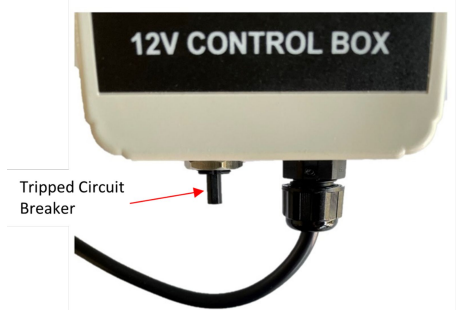
Press and hold the “Apply” button on the toggle switch until the brake piston reaches the end of its travel (you will hear an audible change in pitch of the actuator motor).

NOTE

The 12V control box has a built-in circuit breaker that will trip if the toggle switch is held after the brake piston reaches the end of its travel.

A tripped circuit breaker will extend the spring-loaded button at the bottom of the 12V Control Box.

To reset circuit breaker, wait 60 seconds and depress the spring-loaded button to its original position.

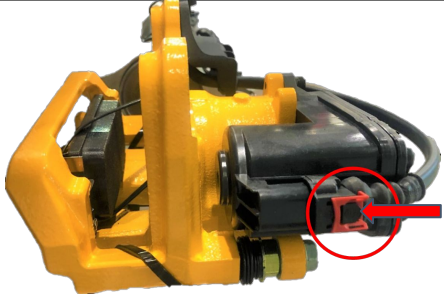



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When tool operation is complete, detach EPB Adapter Harness from EPB.



TOOL USE INSTRUCTION - APPLY PARKING BRAKE

8	Reconnect vehicle harness to EPB, an audible click indicates a fully seated connector.	
9	Slide connector lock toward EPB.	



BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Charge 12v Power Supply	Before Each Use
Check electrical connectors & wiring for damage. Replace any damaged components prior to use.	Before Each Use
Return all components to storage case	After Each Use



SERVICE & REPLACEMENT COMPONENTS

FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	EPB Adapter Harness	TSN00834-300-A
2	Micro-Start XP-1 (Gen 1)	Antigravity (Discontinued by Mfg.)
3	Micro-Start XP-10 (Gen 1)	Antigravity (Discontinued by Mfg.)
4	PS-12-LI52	Melasta



TROUBLESHOOTING

PROBLEM	SOLUTION
EPB tool not operating.	<ul style="list-style-type: none">● Check if breaker is tripped.● Check electrical connections.● Check 12v power supply is turned on.● Check SOC of 12v power supply.
EPB will not apply/release.	<ul style="list-style-type: none">● Faulty EPB, replace caliper.
Breaker will not reset.	<ul style="list-style-type: none">● Allow 60 seconds before resetting breaker.● Replace 12V Control Box
EPB tool applies continuous power, does not stop applying power after 2 seconds.	<ul style="list-style-type: none">● Faulty EPB tool, replace 12V Control Box <p>Note: If EPB 12V control box is faulty, discard/destroy to prevent further use.</p>





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



PPE REQUIRED

- eye protection
- closed toe shoes
- gloves
- ear protection
- ASTM class 0 electrical-protection gloves



CAUTION

Risk of Pinch Point

- keep hands and fingers clear of all moving parts.

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

REVISION LOG

REV	DATE	CHANGE DESCRIPTION
A	03/05/2025	Initial release

