

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER

TSN01649-300

TITLE

RIVIAN EDR RECOVERY KIT

REV - DATE

REV 01 - 7/7/2026

CONTENTS

[SAFETY & OVERVIEW](#)

[RCM MODULE RECOVERY](#)

[DRIVER & SOFTWARE INSTALL](#)

[TOOL USE INSTRUCTION](#)

[MAINTENANCE & TROUBLESHOOTING](#)

[REPLACEMENT PARTS](#)

[SYMBOL GLOSSARY](#)

TOOL FUNCTION

KIT OF NECESSARY HARDWARE TO RETRIEVE EDR CRASH DATA FROM RCM

COMPATIBLE WITH:

Rivian **EDV / RCV**, Model Year 2022 - Present

Rivian **R1T**, Model Year 2022 - Present

Rivian **R1S**, Model Year 2022 - Present

Rivian **R2**, Model Year 2027 - Present





DANGER

Risk of electric shock if used improperly. Do not use if tool is damaged or missing parts. Consult the Rivian Service Tool Catalog for replacement components.

Tool is intended only for use with Rivian OEM modules as detailed in these instructions. Use for any other applications may result in injury and/or damage to tool or property.

The Restraints Control Module (RCM) is sensitive to electrostatic discharge. Use provisions when handling such as grounded floor mats and avoid touching bare metal connector pins.

KIT OVERVIEW

ITEM	QTY	DESCRIPTION
1	1	EDR Recovery Harness, Type 1 (TSN01649-200)
2	1	EDR Recovery Harness, Type 2 (TSN01649-201)
3	1	EDR Recovery Software USB Drive (TSN01649-400)
4	1	CAN FD USB Adapter
5	1	CAN Bus Terminator
6	1	International Power Supply (12V / 36W)
7	1	QR Code Link to Product Website
8	1	Carrying Case



REV 01 7/7/2026

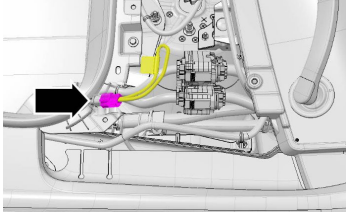
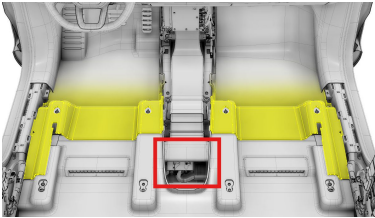
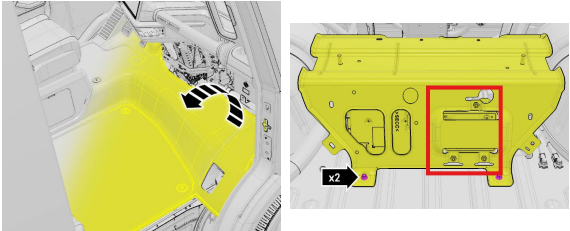
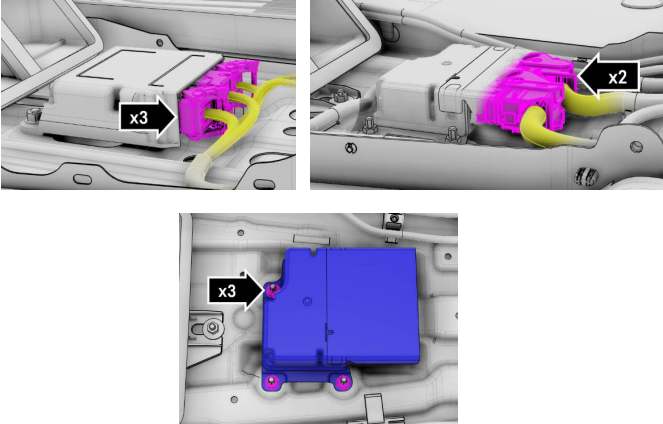
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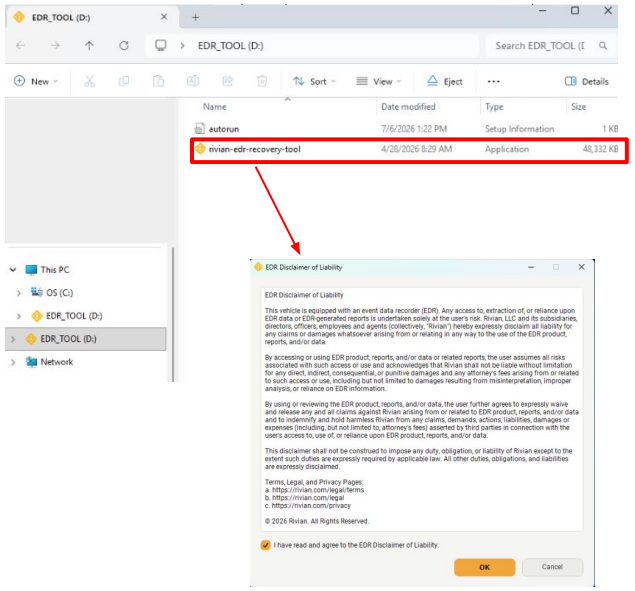
IMPORTANT

Instructions below are provided as reference only, to be used as guidance when locating the Restraints Control Module (RCM) location in a post-crash scenario. It is the user's responsibility to make sure that the vehicle is safe to work on before beginning inspections or repairs, and to perform all work in a safe manner and in a safe work environment.

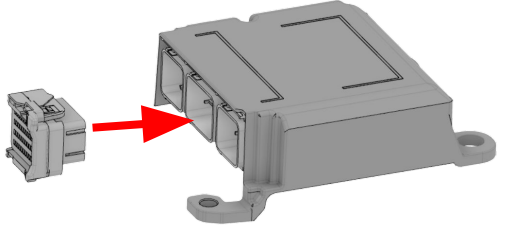
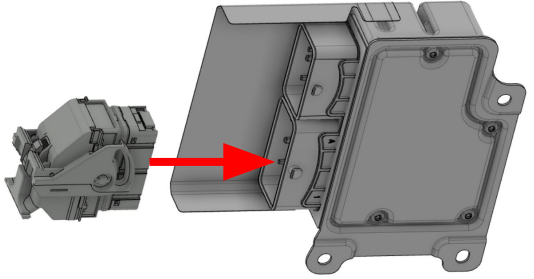
To obtain official service documentation for the RCM removal procedure, contact aftersalesupport@rivian.com and specify the vehicle model(s) being serviced.

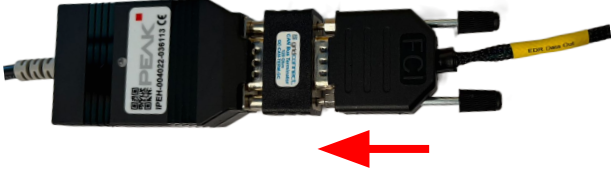
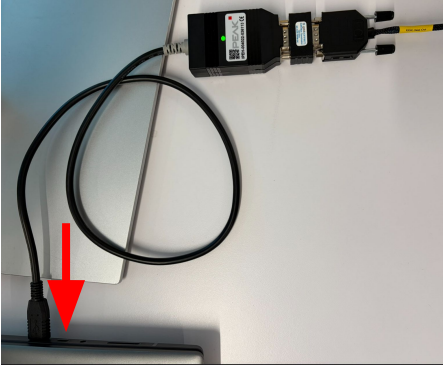
1	Prepare for RCM removal: Disconnect power to the restraints control module (RCM) by disconnecting first responder loop and low voltage battery terminals. Refer to Rivian Emergency Response guides for detailed procedures: https://rivian.com/emergency-response	R1T R1S R2 (under hood)  EDV (either side, beneath body panel) 
2	Locate the RCM: For Rivian passenger vehicles the RCM is located between front seats, beneath the center console and floor panels. For Rivian commercial vehicles the RCM is located to the right of the driver seat, beneath the floor panel, attached to the the floor mounted module bracket.	R1T R1S R2  EDV 
3	Remove the RCM: Remove interior components and trim panels according to service procedure to gain access to the RCM for removal. Prior to removal, disconnect vehicle harnesses from the RCM first, then remove fasteners that retain the module to the vehicle.	



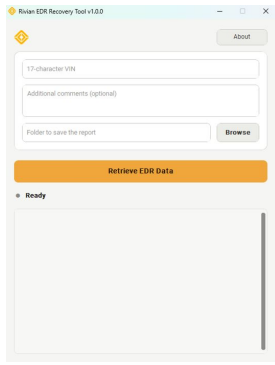
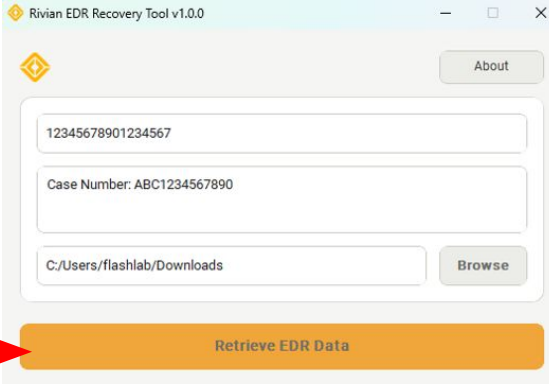
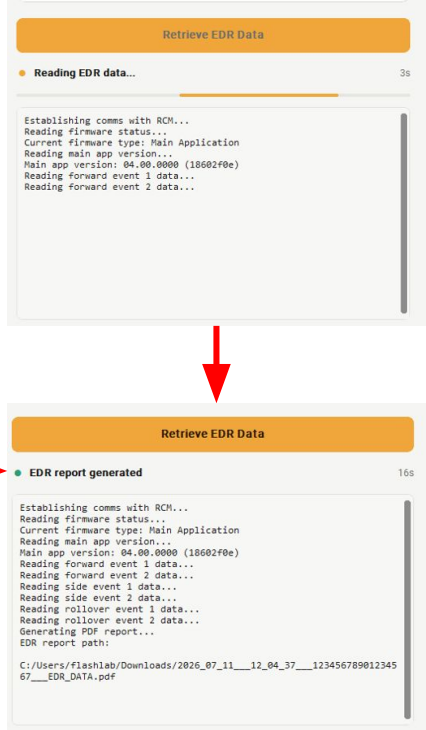
1	Follow instructions provided with PCAN-USB FD adapter (ITEM 4) to install necessary drivers and software. Alternatively, navigate to the Grid Connect website to download drivers directly.	https://www.gridconnect.com/
2	Locate USB flash drive provided with the kit (ITEM 3) and connect to a compatible Windows-based PC. Minimum system requirements: Windows 8 or later 8GB RAM	
3	If app does not launch automatically, navigate to the main folder of the flash drive via windows explorer. Double click on rivian-edr-recovery-tool.exe Review disclaimer and terms of use agreement, check the box and press OK to agree to terms and launch the EDR recovery app.	



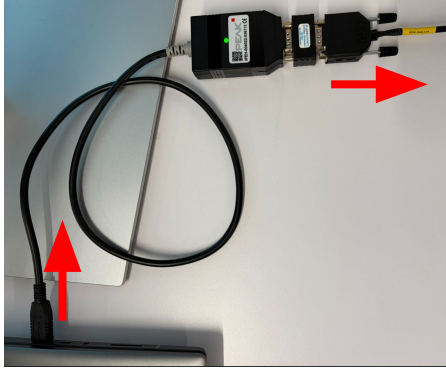
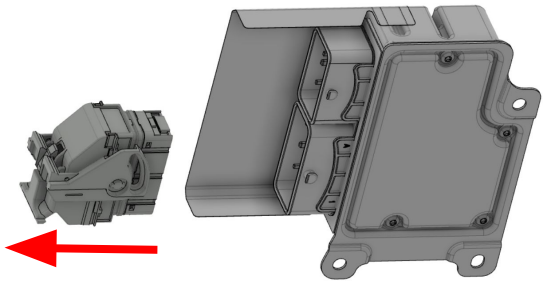
1	Select the EDR Recovery Harness (ITEM 1 or 2) from the kit that is compatible with the Restraints Control Module (RCM) recovered from the vehicle. IMPORTANT EDR Kit is only compatible with vehicles and model years listed	TYPE 1 RCM Rivian R1T / R1S: MY 2022 - 2024 Rivian EDV / RCV: MY 2022 - Present TYPE 2 RCM Rivian R1T / R1S: MY 2025 - Present Rivian R2: MY 2027 - Present
2	Plug the connector labeled TYPE 1 RCM - or - TYPE 2 RCM on the recovery harness into the port shown on the RCM unit. IMPORTANT Connector must be oriented as shown to properly mate. Ensure connector is fully mated before proceeding.	TYPE 1 RCM  TYPE 2 RCM 
3	Attach the CAN Bus Terminator (ITEM 4) to the PCAN-USB FD Adapter (ITEM 3)	

4	Attach the connector labeled EDR DATA OUT on the recovery harness to the open end of the CAN Bus Terminator.	
5	Connect the USB end of the PCAN-USB FD Adapter to your PC.	
6	Plug the 12V Power Supply (ITEM 5) into a compatible AC power outlet.	
7	Connect the opposite end of the power supply to the 12V IN barrel connector on the EDR recovery harness.	



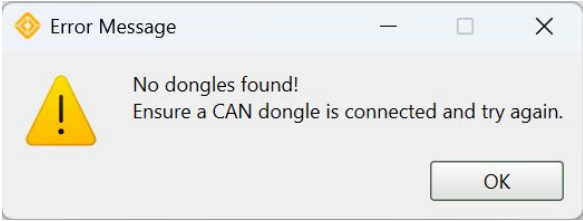
8	Launch the Rivian EDR Recovery Application from the USB flash drive provided with the kit (ITEM 3). Refer to: DRIVER & SOFTWARE INSTALL	
9	Type Vehicle VIN and any additional comments, then select a file location to save the .pdf report. Click Retrieve EDR Data NOTE VIN must be 17 characters	
10	The status bar and message window will display progress during decoding. Once data has been successfully decoded and exported to .pdf, the status bar will display “EDR report generated”. Navigate to the folder chosen in the previous step to open .pdf report. NOTE Refer to: TROUBLESHOOTING to diagnose any error messages	



11	Disconnect the external power supply from the EDR recovery harness. Unplug the power supply from the wall outlet.	
12	Disconnect the PCAN USB adapter from the USB port. Disconnect the EDR recovery harness and CAN bus terminator from the PCAN USB adapter.	
13	Disconnect the EDR recovery harness from the RCM.	

TASK	FREQUENCY
Inspect all harness and power supply wiring for signs of wear or damage. Replace components as needed.	Before each use
Return all components to the provided hardshell case	After each use

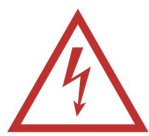
TROUBLESHOOTING

PROBLEM	SOLUTION
	Ensure PCAN adapter is properly connected to USB port. Ensure latest drivers from CAN adapter supplier are installed (see DRIVER & SOFTWARE INSTALL)
Error message: “Failed to establish comms with RCM”	Check all connections between harness, power supply, and RCM. Use PCAN-View software (or similar) to verify PCAN adapter is communicating properly with RCM.
Any of the following error messages: “ECU is not in main application” “Failed to set diagnostic session” “Failed to read firmware status” “Failed to set diagnostic session” “Failed to unlock security access” “Failed to extract main app version: response too short” “Failed to read main app version”	Ensure that the latest version of the EDR recovery app is being used, refer to product page for updates: https://rivian-service-tools-catalog.myshopify.com/products/tsn01649-300-a Contact Rivian support if issue persists: https://rivian.com/support/article/how-do-i-access-data-on-my-event-data-recorder



ITEM	DESCRIPTION	SUPPLIER + PART NUMBER
1	EDR Recovery Harness, Type 1	Rivian TSN01649-200-A
2	EDR Recovery Harness, Type 2	Rivian TSN01649-201-A
3	CAN FD USB Adapter	Grid Connect PEAK IPEH-004022
4	CAN Bus Terminator - 120 Ohm	Grid Connect GC-CAN-TERM-GC
5	International Power Supply - 12V / 36W	BEL SMI36-12-V-P5





DANGER

Risk of electrocution or electric shock



DANGER

Electrostatic discharge (ESD) sensitive device

IMPORTANT

Instructions to successfully complete a task

NOTE

Useful information

CHANGE LOG

REV	DATE	CHANGE DESCRIPTION
01	7/7/2026	Initial release

DISCLAIMER OF LIABILITY

This vehicle is equipped with an event data recorder (EDR). Any access to, extraction of, or reliance upon EDR data or EDR-generated reports is undertaken solely at the user’s risk. Rivian, LLC and its subsidiaries, directors, officers, employees and agents (collectively, “Rivian”) hereby expressly disclaim all liability for any claims or damages whatsoever arising from or relating in any way to the use of the EDR product, reports, and/or data.

By accessing or using EDR product, reports, and/or data or related reports, the user assumes all risks associated with such access or use and acknowledges that Rivian shall not be liable without limitation for any direct, indirect, consequential, or punitive damages and any attorney’s fees arising from or related to such access or use, including but not limited to damages resulting from misinterpretation, improper analysis, or reliance on EDR information.

By using or reviewing the EDR product, reports, and/or data, the user further agrees to expressly waive and release any and all claims against Rivian arising from or related to EDR product, reports, and/or data and to indemnify and hold harmless Rivian from any claims, demands, actions, liabilities, damages or expenses (including, but not limited to, attorney’s fees) asserted by third parties in connection with the user’s access to, use of, or reliance upon EDR product, reports, and/or data.

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