

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER

TSN01702-300

TITLE

R2 HV BATTERY COMMUNICATION HARNESS

REV - DATE

REV 01 7/6/2026

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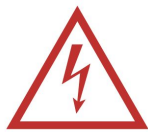
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TOOL FUNCTION

USED TO COMMUNICATE WITH THE R2 BATTERY THROUGH THE SZC





DANGER

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	Harness is intended for use by trained personnel only.
2	Read and follow all service manual procedures and precautions prior to use.



SPECIFICATIONS

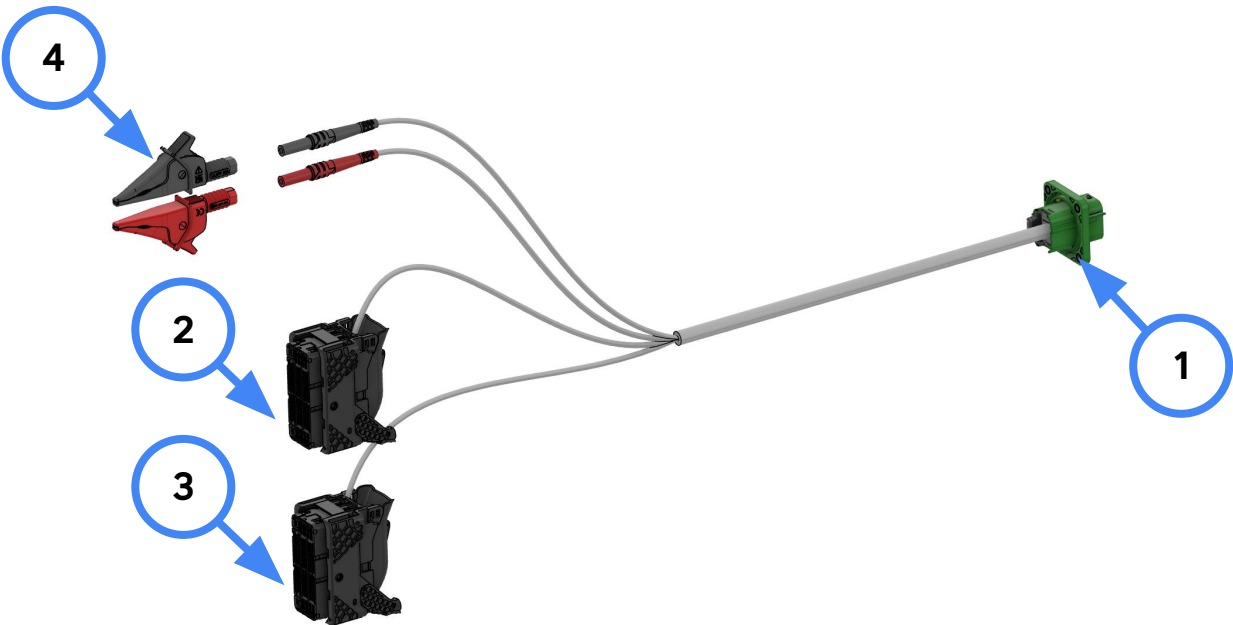
Voltage Rating: 15 VDC

LABOR CODES

- 300070026 - HV Battery (Discharge)
- 300099012 - HV Battery General Diagnostic

OTHER TOOLS REQUIRED

- TSN01116-300 - HIGH VOLTAGE BATTERY DISCHARGER, 480V
- TSN00548-300 - HV BATTERY COMMUNICATION HARNESS
- TSN01650-100 - 12V POWER SOURCE (OR EQUIV.)

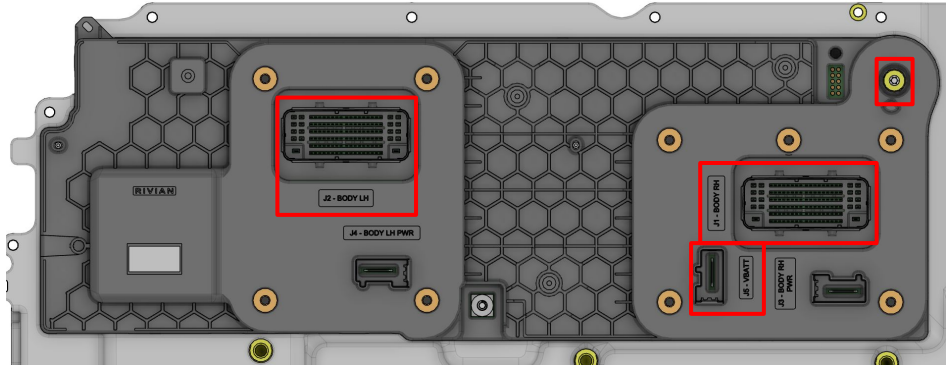


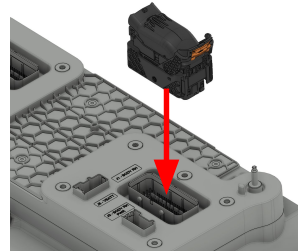
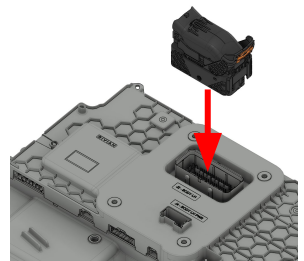
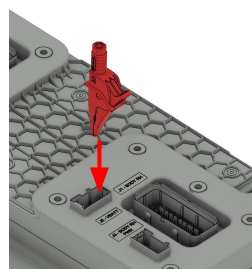
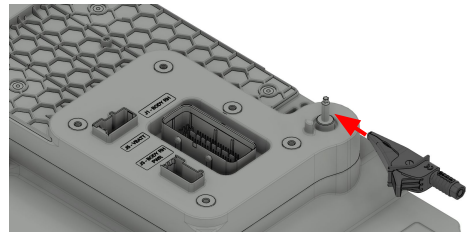
COMPONENT GUIDE

ITEM	DESCRIPTION
1	HV BATTERY COMMUNICATION + POWER CONNECTOR
2	TH ETHERNET CONNECTOR (SZC J1)
3	TH CAN CONNECTOR (SZC J2)
4	LV POWER AND GROUND CLIPS



SZC CONNECTION LOCATIONS



1	Prep vehicle for HV battery service according to service procedure.	
2	Mate connector labeled J1 TH ETHERNET to the port labeled J1 - BODY RH on the South Zone Controller (SZC)	
3	Mate connector labeled J2 TH CAN to the port labeled J2 - BODY LH on the SZC	
4	Attach 12VDC + (red) low voltage clip to the port labeled J5 - VBATT on the SZC	
5	Attach 12VDC - (black) low voltage power clip to the ground post on the SZC	



6	For general HV battery diagnostics: Connect the R2 comm harness to the legacy comm harness (TSN00548-300) Connect diagnostic tool (PCAN, RADMOON, etc) to the DB9 breakout connectors(s) on the legacy comm harness. Connect approved external power supply to the 12V barrel connector. Note that networks labeled on the legacy comm harness map to the R2 communication networks as follows: <table><tr><td>R1 / EDV</td><td>R2</td></tr><tr><td>CAN2 - PLATFORM</td><td>TH CAN</td></tr><tr><td>CAN0 - BATTERY</td><td>TH ETHERNET</td></tr></table>	R1 / EDV	R2	CAN2 - PLATFORM	TH CAN	CAN0 - BATTERY	TH ETHERNET	
R1 / EDV	R2							
CAN2 - PLATFORM	TH CAN							
CAN0 - BATTERY	TH ETHERNET							
7	For HV battery discharging: Connect the R2 comm harness to the A1001 LV stub that is included with the discharger. Note that green ground clip does not need to be attached if the black ground clip on the R2 comm harness is connected to the SZC. Refer to R2 discharging guide for complete instructions. https://sites.google.com/rivian.com/service-toolengineering/tool-equipment-process-guides/midtronics-hv-discharger							

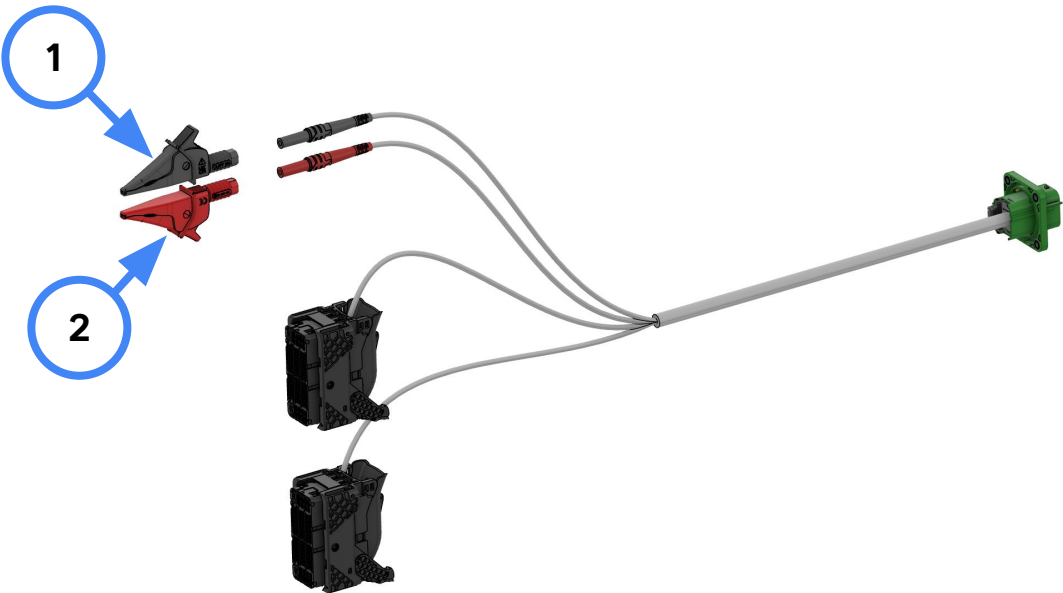


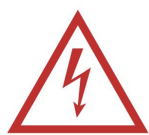
BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect harness for signs of damage (frayed cable shielding, bent terminal pins, cracked connector housings). Replace as needed.	Before each use
Coil harness and store in a dry tool box or cabinet.	After each use

SPARE PARTS

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER	PHOTO
1	ALLIGATOR CLIP (BLACK)	MUELLER BU-65-0	
2	ALLIGATOR CLIP (RED)	MUELLER BU-65-2	





DANGER
Risk of electrocution or electric shock

IMPORTANT
Instructions to successfully complete a task

NOTE
Useful information

DOCUMENT CHANGE LOG

REV	DATE	CHANGE DESCRIPTION
01	7/6/2026	Initial release

