

# RCI-34-23-001-3: Model Year 2022-2024 Vehicles High Voltage (HV) System Overview, R1T and R1S

## Rivian Automotive, LLC - Service Guideline

<b>Document Type</b>	Collision Repair Information Document
<b>Date</b>	August 25, 2025
<b>Affected Region(s)</b>	USA
<b>Affected Model(s)</b>	R1T, R1S
<b>Model Year(s)</b>	2022-2024
<b>Vehicle System</b>	34 - High Voltage Distribution

### Important:

- This procedure requires RiDE. Review the RiDE instructions specific to this procedure before starting work.
- Some RiDE routines are restricted and will need to be performed by a Rivian service center.

### Attention:

- This document is intended as a general High Voltage (HV) system component overview and servicing guideline. Always refer to the Rivian service manual for vehicle-specific information when servicing or replacing HV components.
- Rivian recommends that only Factory Certified Service Technicians inspect and repair the HV System in Rivian vehicles. Please contact your regional Rivian Collision/Service Team to request more information or assistance with repairs.

## General Information

To promote and maintain its rigorous standards of quality and safety, Rivian Automotive provides the collision industry with important information, and safety precautions, to use when performing repairs on a Rivian vehicle after a collision event.

### Important:

Always refer to the Rivian service manual for up-to-date information regarding the disablement of the HV system and safety precautions/steps to follow prior to performing any work on the HV system.

### Warning:

To lower the risk of possible electrocution, always assume the HV battery pack, and associated components, are energized and fully charged until their status can be verified by following the HV disabling guidelines in the service manual.

### Warning:

Exposed HV electrical components, cables, and batteries present potential HV shock hazards that could result in bodily injury or death.

### Warning:

Any venting/off-gassing HV battery vapors may be toxic and/or flammable and could result in bodily injury or death.

### Warning:

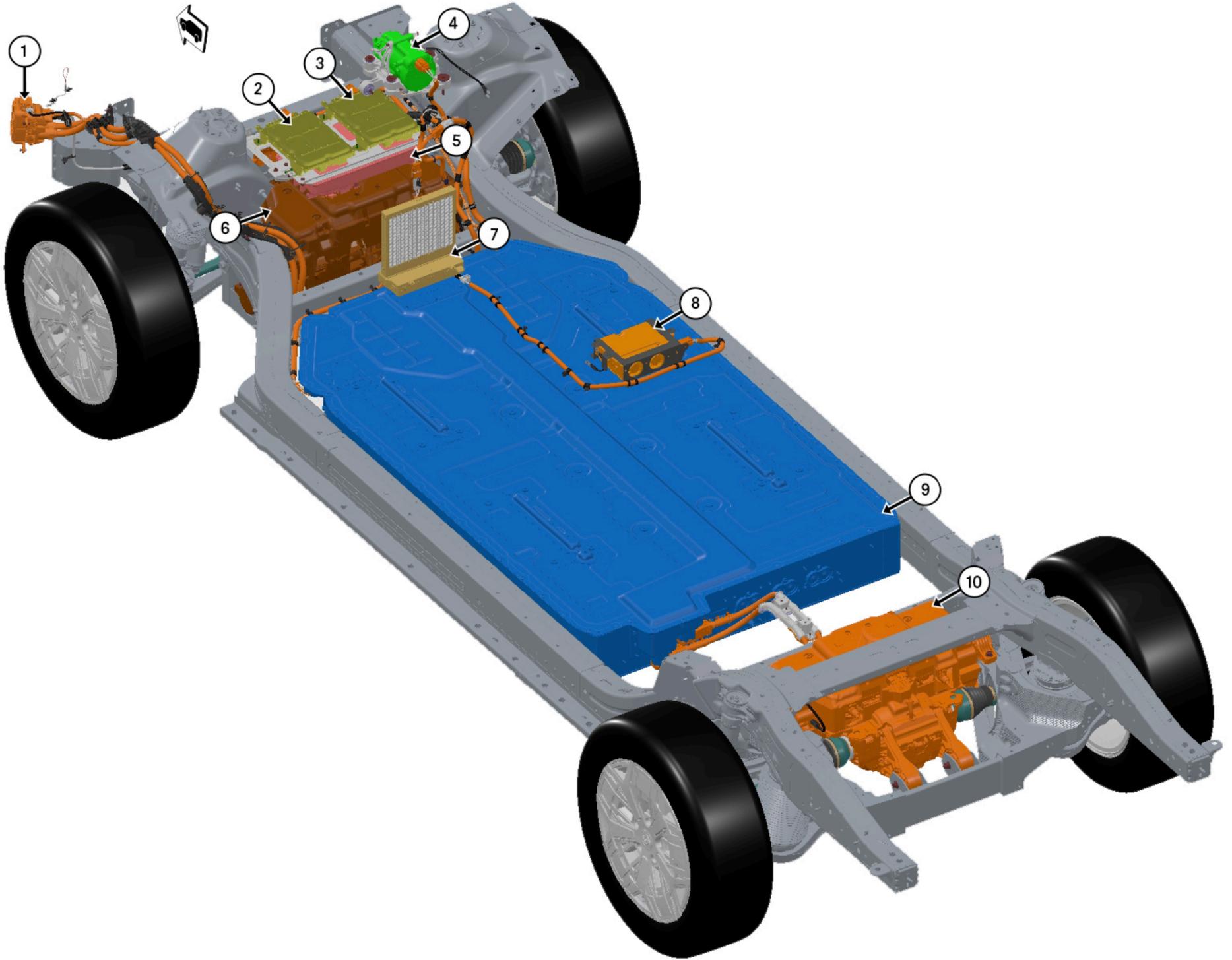
Physical damage to the HV battery may result in a fire or in immediate, or delayed, release of toxic and/or flammable gases which could result in bodily injury or death.

## Things to keep in mind,

- The HV system may vary by vehicle model and configuration.
- Locations to inspect for the presence of HV, after the HV system has been disabled, will vary between by vehicle chassis model and battery/drive unit configurations.
- Review all necessary service procedures and safety documents prior to performing repairs or storage of the HV battery pack.
- A Pre and Post system scan is required when performing any HV repairs on Rivian vehicles.
- Follow all applicable laws or safety guidelines for storage and handling of HV battery packs.

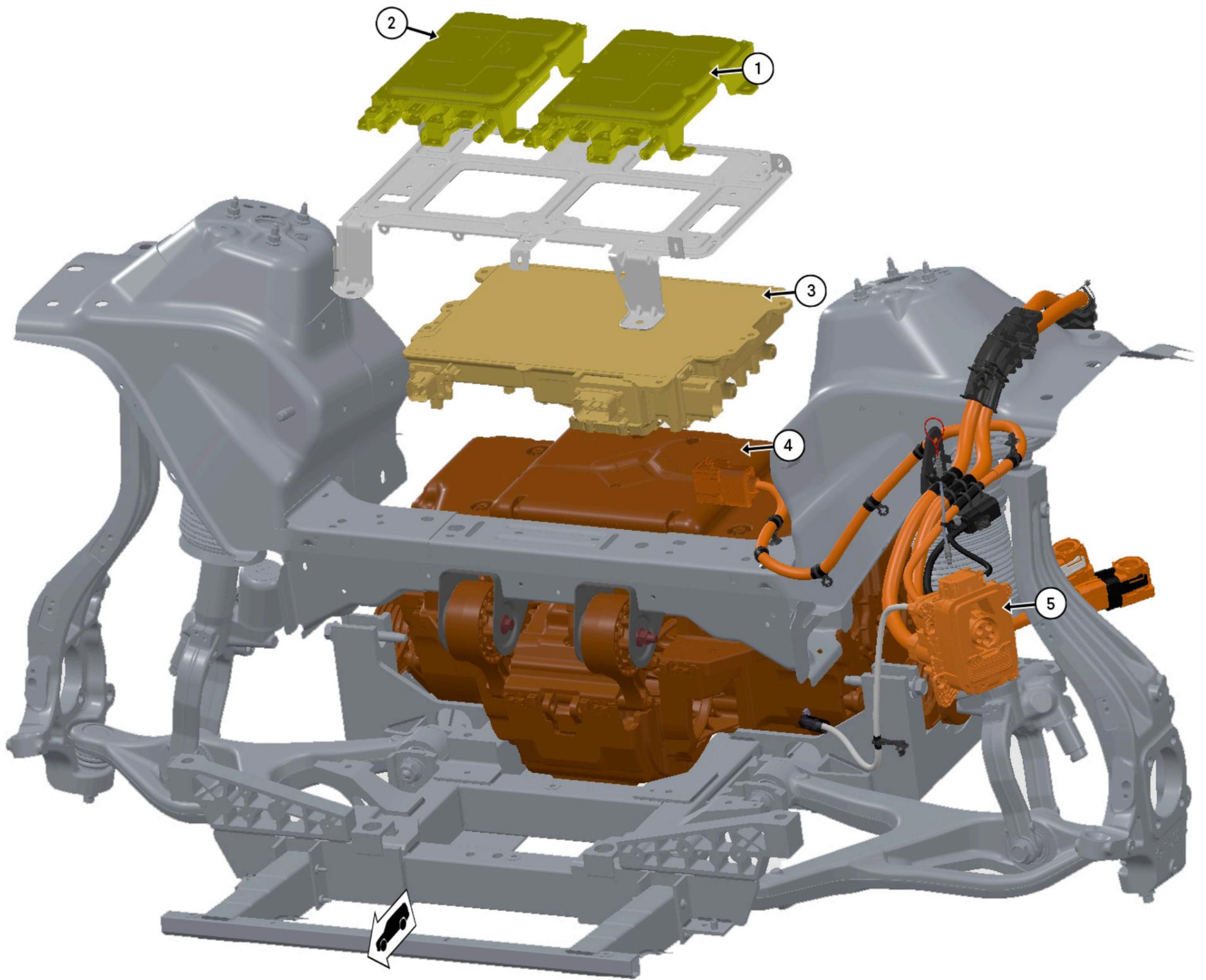
- Make sure the appropriate PPE is worn as per NFPA 70E, OSHA guidelines, or the local equivalent.

### High Voltage (HV) Component Location



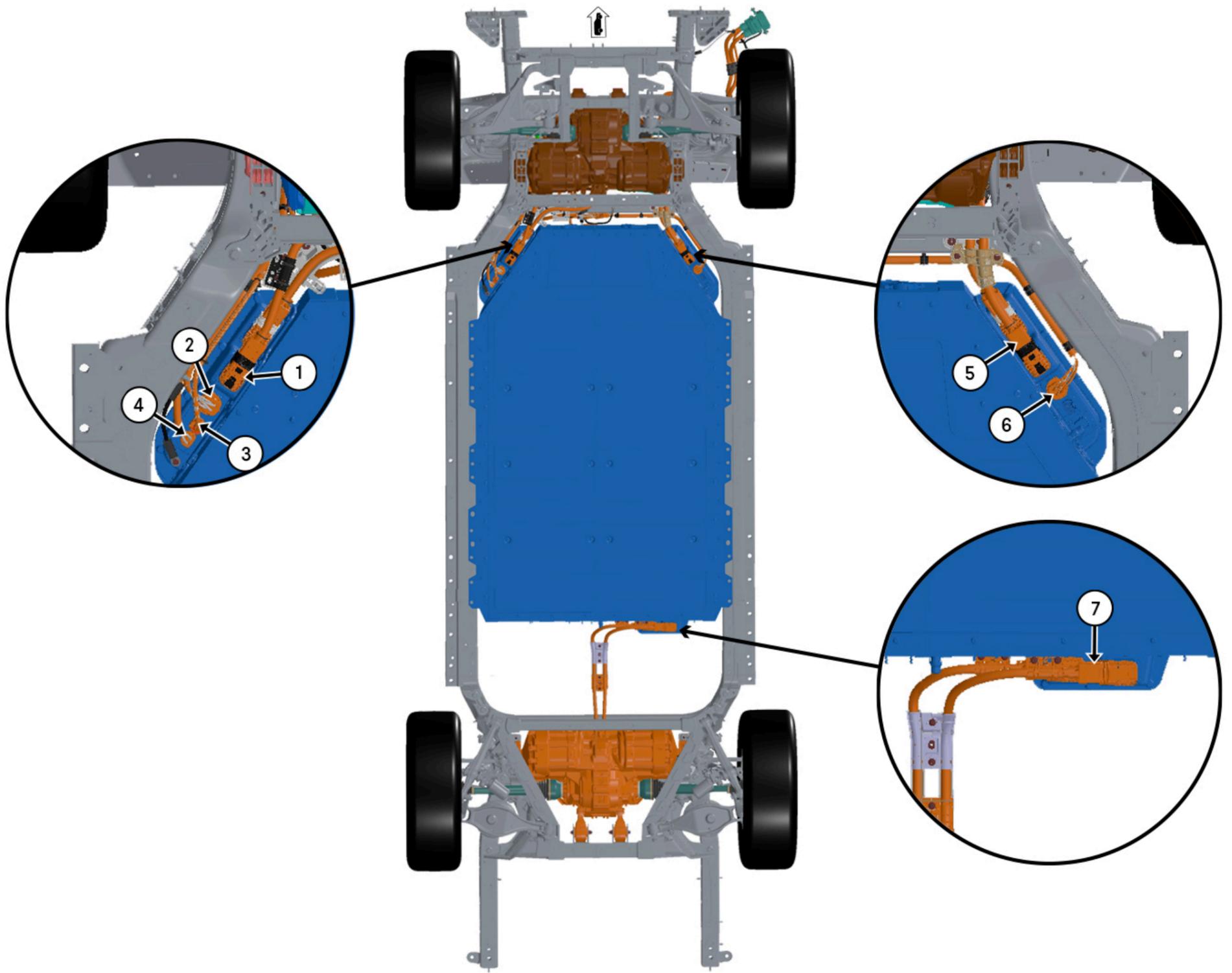
Number	HV Component
1	Charge Port
2	Primary DC/DC Converter
3	Secondary DC/DC Converter
4	HV Air Conditioning Compressor
5	Onboard Charger (OBC)
6	Front Drive Unit (FDU)
7	Cabin Heater
8	DC/AC Inverter (Located under passenger seat)
9	HV Battery
10	Rear Drive Unit (RDU)

### HV Component Location - Front



Number	HV Component
1	Primary DC/DC Converter
2	Secondary DC/DC Converter
3	On-Board Charger (OBC)
4	Front Drive Unit (FDU)
5	Charge Port

**HV Component Location - Battery Pack Connectors**



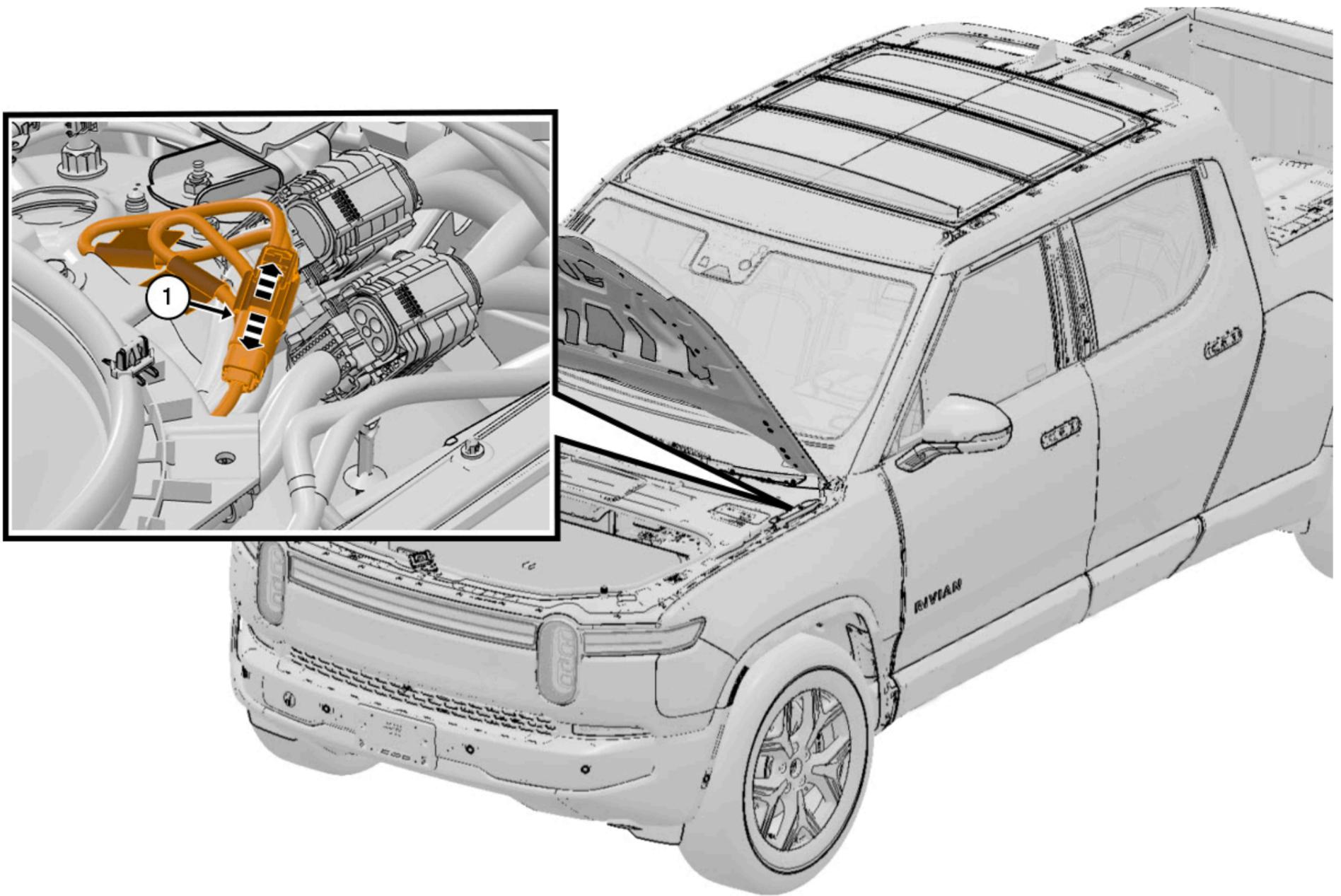
Number	HV Connector
1	Front Drive Unit (FDU)
2	DC/DC Converters
3	On-Board Charger (OBC)
4	Air Conditioning Compressor
5	Charge Port
6	Cabin Heater – DC/AC Inverter
7	Rear Drive Unit (RDU)

### First Responder HV Disconnection Cable

Disconnection of the First Responder HV Disconnect Cable manually disables the HV system to allow for servicing of the HV system in a safe manner.

**Important:**

Always refer to the Rivian service manual for up-to-date information regarding the disablement of the HV system and safety precautions/steps to follow prior to performing any work on the HV system.



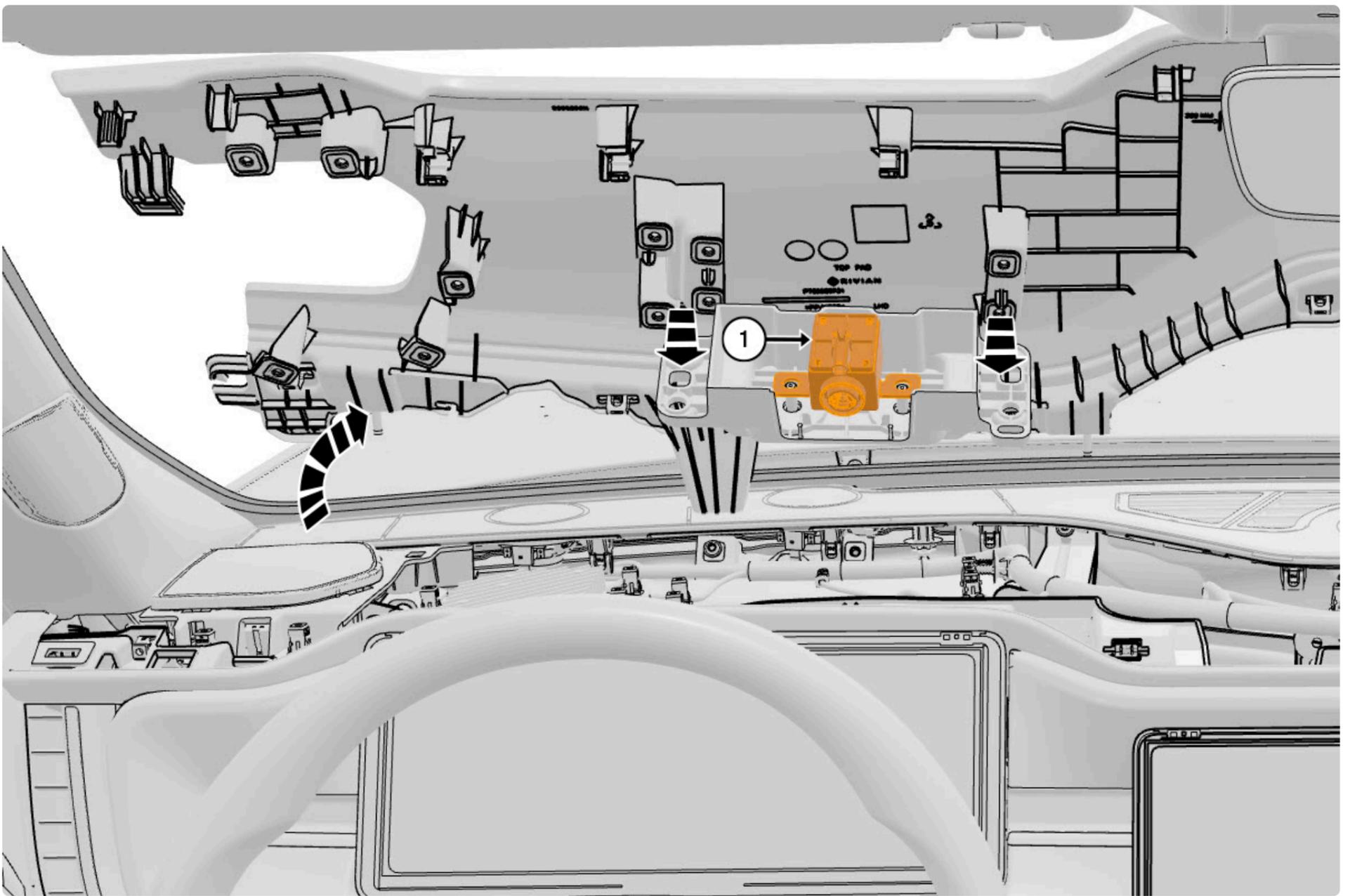
Number	Component
1	First Responder HV Disconnection Cable

### Pyrotechnic Fuse

The Pyrotechnic Fuse automatically disables the HV system to prevent short circuits in the event of a collision with significant vehicle deformation.

**Attention:**

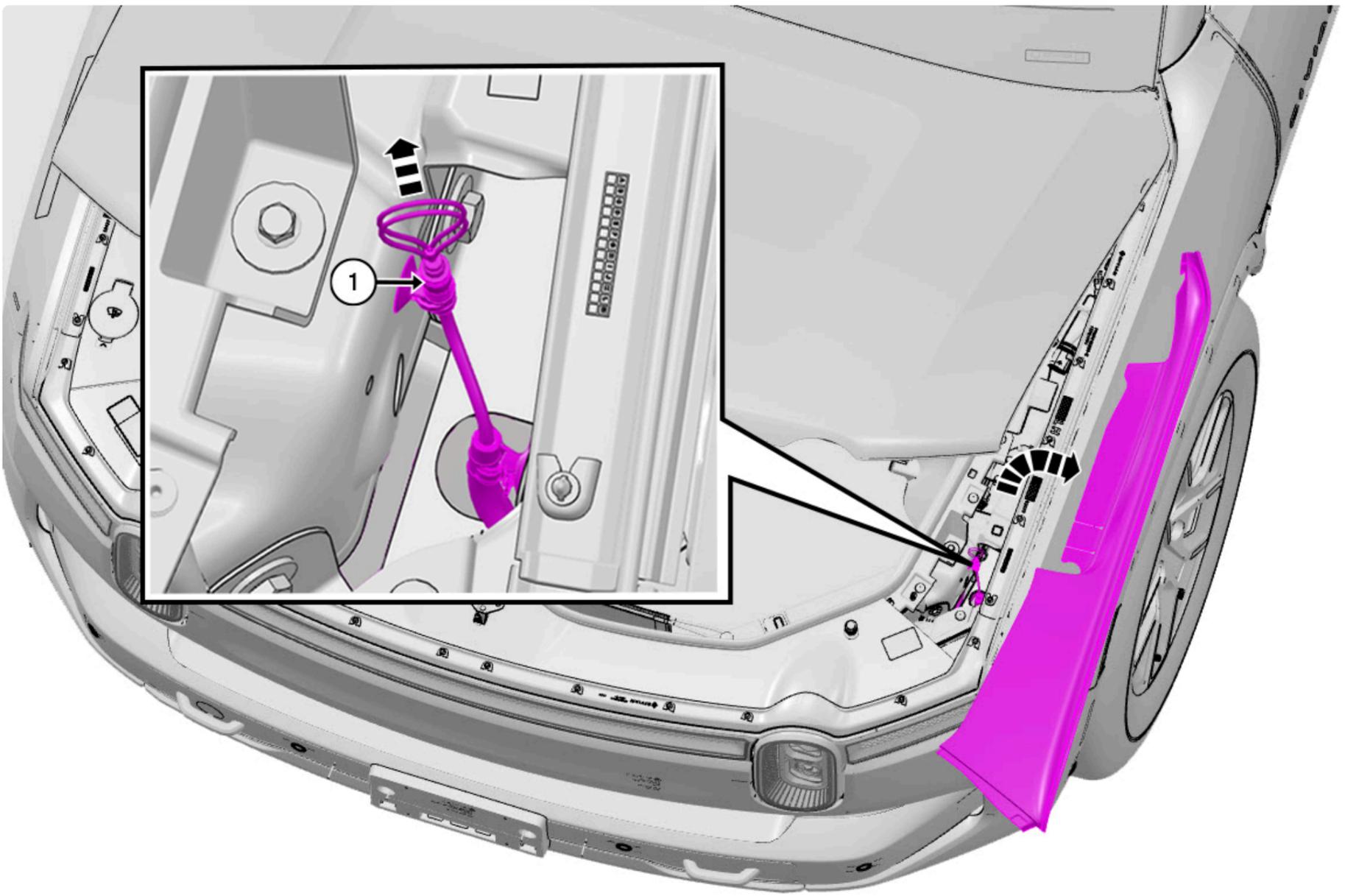
The Pyrotechnic Fuse cannot be reset and requires replacement after it has been triggered. Refer to the applicable procedure in the service manual for replacement.



Number	Component
1	Pyrotechnic Fuse

### Charging Connector Manual Release Cable

The charging connector manual release cable can be used to release a connector that will not disengage from the charge port. Refer to the R1T Owner's Guide for more information.



Number	Component
1	Charging Connector Manual Release Cable

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