

RCI-30-23-002-1 High Voltage (HV) Battery Damage Inspection Guidelines

Rivian Automotive, LLC - Service Guideline

Document Type	Collision Repair Information Document
Date	March 8, 2023
Affected Region(s)	USA
Affected Model(s)	All Models
Model Year(s)	2022+
Vehicle System	30 - High Voltage Battery

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:

- Always refer to the Rivian service manual for up-to-date information regarding the disablement of the High Voltage (HV) system and safety precautions/steps to follow prior to performing any work on the HV system.
- 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 for 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 inspecting vehicles for HV battery damage after a collision event.

 **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.

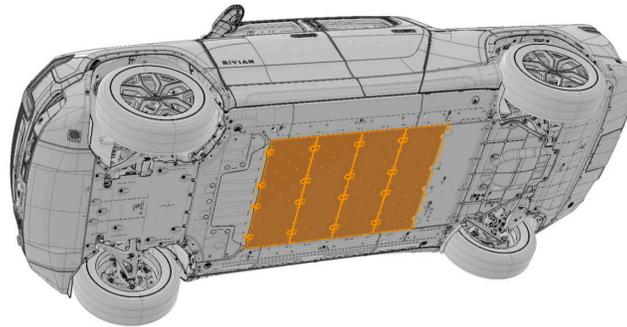
- Make sure the appropriate PPE is worn as per NFPA 70E, OSHA guidelines, or the local equivalent.
- Follow all applicable laws or safety guidelines for storage of electric vehicles involved in collision events (DOT HS 811 576).
- Review all necessary service procedures and safety documents prior to performing repairs or storage of the HV battery pack.
- Use RiDE to scan for system faults.
- 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, may vary between vehicle model and battery/drive unit configurations.

Battery Damage Inspection



Warning: A HV battery, pack as well as all related HV components, pose a significant electrocution risk if the enclosure or the built-in safety components have experienced significant damage during a collision event. Rivian strongly recommends that you contact your regional Rivian Collision/Service team for assistance with repairs.

If possible, prior to allowing the vehicle to enter the shop area, perform the steps in the table below to ensure the vehicle is safe to work on. Make sure there is adequate ventilation prior to performing the inspection and always maintain clear access to the vehicle for proper monitoring and emergency response access, if needed.

Areas of Inspection


No.	Inspection Point	Inspect For	Action	
1	Battery Enclosure	Sparks, smoke or flames	Call Emergency Services	
		Electrical odors and fumes		
		Gurgling or bubbling noises		
2		Battery Enclosure	Any external leak(s) of battery cooling fluid (check coolant level)	Contact your regional Rivian Collision/Service Team to request more information or assistance with repair.
			Signs of moisture accumulation and possible corrosion	
			Any deformations, cracks, dents, or tears that compromise the battery internals	
			Damaged HV Connectors	
			Damaged Enclosure Seals	
Evidence of electrical arc event resulting in welding or spatter marks				

For additional information on HV battery handling and storage, refer to [RCI-30-23-001-1: High Voltage \(HV\) Battery Storage and Handling Guidelines](#)