

RCI-72-23-001-1: EDV Supplemental Restraint System(SRS) Overview and Servicing Guidelines

Rivian Automotive, LLC - Service Guideline

Document Type	Collision Repair Information Document
Date	February 6, 2023
Affected Region(s)	USA
Affected Model(s)	EDV
Model Year(s)	2022+
Vehicle System	72 - Occupant Protection



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.

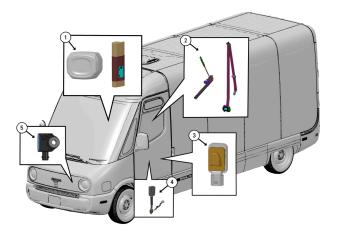
Attention:

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

General Information

In an effort to promote and maintain its rigorous standards of quality and safety, Rivian Automotive provides the collision industry with important information regarding the various components that make up the Supplemental Restraint System (SRS) system of Rivian Vehicles, and best practices to use after a collision event.

SRS Components





Number	Component
1	Airbag Modules
2	Seatbelts and Pre-tensioners
3	Pressure Sensors
4	Seatbelt Buckles
5	Acceleration Sensors

SRS Best Practices after a Collision Event

Attention: Disable the 12V system per the procedure in the service manual, prior to replacing any SRS components. Allow approximately one minute after disabling the system before working around, or near, any SRS component(s).

Important:

- Always review all service information regarding SRS systems prior to starting repairs.
- Always clean interior vehicle surfaces after a deployment event prior to starting repairs.
- Always treat all SRS components as live, regardless of condition.

Note: Multi-stage SRS devices may appear fully deployed but may still hold active charges.

- Always refer to the service manual for all current and up to date repair information regarding SRS systems prior to performing any repairs.
- Always make sure the area around the SRS component being serviced is clean and free from any obstructions.
- Always make sure new SRS components remain stored in their packaging until ready for installation.
- Always make sure to store removed SRS components in a safe location.
- Always inspect new SRS components prior to installation to make sure they are free from defects or damage.
- Always make sure to cover all SRS electrical connectors during repairs.
- Always install new SRS components using new fasteners.
- Always refer to the electronic parts catalog for available pins, wiring, locking tabs, or weather seals commonly used in SRS component wiring.
- Never install any damaged, contaminated, aftermarket, or used SRS components.
- Never use compressed air, drop, or expose the pressure sensors to repair materials.
- Never tamper with or cut the wiring harnesses for the driver's airbag, side airbag, roof rail airbag, or seat belt pre-tensioners, to avoid a possible deployment.
- Never use test lights, Volt Meters, Ohm Meters, or any tool that has the ability to probe connectors on SRS components.



Note: Only the Rivian Diagnostic Environment (RiDE) tool should be used for diagnosis and to access system functions.

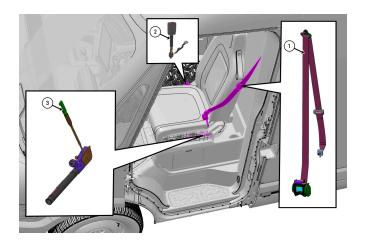
Seatbelts, Pre-tensioners, and Buckles



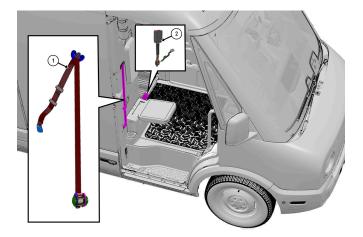


- Never perform any internal repairs to the seatbelt assembly.
- Always inspect all seatbelt systems for damage after a collision event.
 - Always replace the entire safety belt once it has been deployed during a collision event. This should include the seat belt, buckle, adjusters, pre-tensioner, fasteners, and sensor(s).
 - Always replace the entire seatbelt assembly if any component(s) are damaged during installation.
 - Always destroy and properly dispose of all replaced seatbelt assemblies.
 - Occupant Detection Sensor replacement is not required in a deployment event unless seat damage is involved.

Attention: It is the responsibility of the shop performing the repair to properly dispose of any replaced SRS components.



Number	Component
1	Driver's Seatbelt
2	Seatbelt Pre-tensioner
3	Seatbelt Buckle (w/Sensor)



Number	Component
1	Passenger Seatbelt
2	Seatbelt Buckle (w/Sensor)

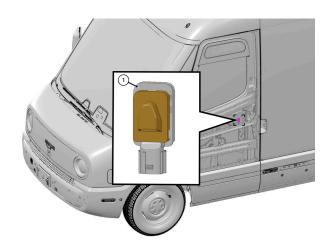
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Pressure Sensors

Important:

- Never perform any repair(s) on a pressure sensor.
- Never drop the pressure sensor, expose the sensor to compressed air, or repair materials. Otherwise, pressure sensor function and timing may be affected.
- Always replace any pressure sensor mounted on a damaged panel to ensure proper and consistent function is preserved.
- Always make sure that all proper internal door sealing is restored after performing any door repairs. Otherwise, pressure sensor function and timing may be affected.
- Always use new fasteners when installing replacement pressure sensors.



Number	Component
1	Pressure Sensor

Acceleration Sensors (G-Sensors)

Important:

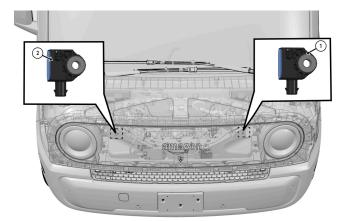
- Never perform a repair on an acceleration sensor. Damaged sensors must be replaced.
- Always replace any acceleration sensor mounted directly in the point of impact area.



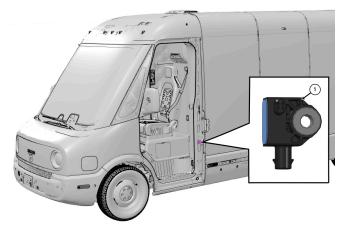
Note: Point of Impact is defined as the portion of the vehicle which is distorted, bent, or damaged due to impact or collision.

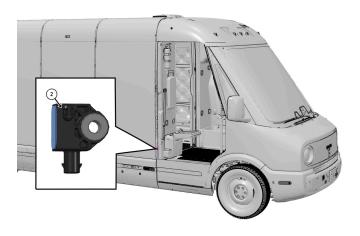
- Always replace any acceleration sensor if the mounting surface, or any fastener holding the sensor, is damaged or bent. Otherwise, acceleration sensor function may be negatively affected.
- Always perform a DTC scan/clear operation after acceleration sensor replacement.
- Always use new fasteners when installing replacement acceleration sensors.





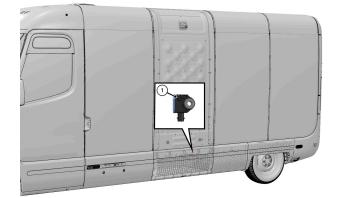
Number	Component
1	Acceleration Sensor, Front, Left
2	Acceleration Sensor, Front, Right

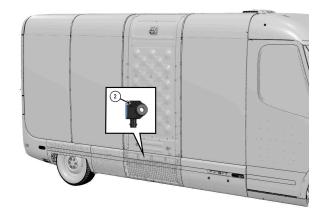




Number	Component
1	Acceleration Sensor, B-Pillar, Left
2	Acceleration Sensor, B-Pillar, Right







Number	Component
1	Acceleration Sensor, C-Pillar, Left
2	Acceleration Sensor, C-Pillar, Right

Airbag Modules

Attention: Restraint Control Module (RCM) replacement is required after deployment of any SRS component.

Best Practices After Airbag Deployment:

- Steering Wheel Airbag: Replace airbag module, steering wheel, clock spring assembly, and steering column assembly.
- Steering Column: Inspect the front dash bar for any cracks or movement when replacing the steering column. Replace dash bar if any cracks or excessive movement is visible. Additionally, inspect surrounding instrument panel structure for any damage and replace all damaged components.
- Seat-Mounted Side Airbag (SAB): Replace the driver's seat back assembly, or the entire seat assembly, depending on the extent of the damage due to deployment. Never attempt a repair to the driver's seat back or the driver's seat assembly.
- Side Curtain Airbag: Replace headliner, side trim panels, metal brackets, handles, and associated clips.



Note: Prior to installation of the curtain air bag module, inspect the pillar and roof mounting surfaces for damage. Make sure to confirm proper body sealing after component installation.

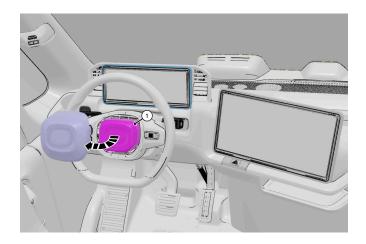


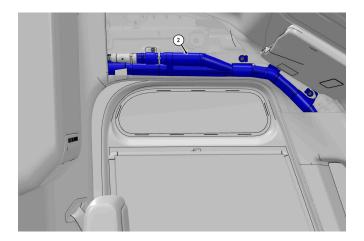
• For all Airbags: Always use new fasteners when installing the new airbag component.



Note: Steering wheel airbag is a snap-in design and does not use any fasteners.

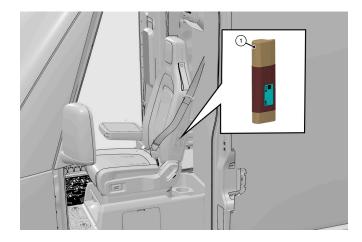
Attention: It is the responsibility of the shop performing the repair to properly dispose of any replaced SRS components.





Number	Component
1	Steering Wheel Airbag
2	Side Curtain Airbag





Number	Component
1	Seat-Mounted Side Airbag

Restraint Control Module (RCM)



Attention: RCM replacement is required after deployment of any SRS component.

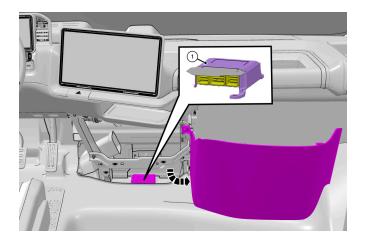
Important:

- Never install a new, or removed, RCM module if it has been dropped or mishandled in any way.
- Always replace the RCM after the deployment of any SRS component.
- Always make sure replacement SRS components remain stored in their packaging until ready for installation.
- Always inspect removed modules for pin, connector or wiring harness damage.



Note: Perform only allowable repairs as outlined in the service manual, prior to installation of the new or removed RCM.

• Always use new fasteners when installing the replacement RCM in the vehicle.



Number	Component
1	RCM



SRS Component Inspection - Post Repair

All collision impacts that exceed minor outer body panel cosmetic damage require a Supplemental Restraint System (SRS) inspection.



Note: When inspecting airbag system components after a collision event, some disassembly is required to ensure proper diagnosis.

- Always perform a seat belt operation check after all repairs have been completed.
- Always perform an SRS system inspection prior to returning the system to normal operation.