RCI-52-22-012-2: EDV Material Matrix

Rivian Automotive, LLC Service Document

Document Type	Collision Repair Information Document
Date	July 27, 2023
Affected Region(s)	USA
Affected Model(s)	EDV
Model Year(s)	2022+
Vehicle System	52 - Body

This document describes allowable repair methods for the Rivian EDV. Before starting any repair work, consult the tables and diagrams in this document.

Material Repairability Quick Reference

Color Key	Material Type	GMAW Welding Allowed?	Spot Welding Allowed?	Heat Straightening Allowed?	Cold Straightening Allowed?
	Conventional Steel	Yes	Yes	60 sec. @ 600° C	Yes
	Advanced High Strength Steel	Yes	Yes	No	Yes
	Ultra High Strength Steel	No	Yes	No	Yes
	Aluminum Sheet	Yes	No	60° C	Yes
	Aluminum Extrusion	No	No	No	No
	Plastic	N/A	N/A	N/A	N/A

Conventional Steel

- **Cold Straightening:**
  - Allowed for cosmetic repairs on panels that do not have creasing or kinking.
  - When appropriate, Paintless Dent Repair (PDR) and glue-pulling are allowed.
- **Heat Straightening:**
  - Allowed for minor panel damage.
  - Do not exceed 600°C (1112° F).
  - The panel can be heated a maximum of 2 times.
- **Sectioning**
  - Allowed for partial replacement, in some cases.
  - Refer to the vehicle specific repair procedure(s) for additional information.

- **GMA Welding**
  - Allowed on minor tears and punctures.
  - Refer to the General Repair Guidelines for additional information.

Aluminum Extrusion

Extruded Aluminum structures are NOT repairable and must be replaced with new components.

Advanced High-Strength Steel

- **Cold Straightening:**
  - Allowed for cosmetic repairs on panels that do not have creasing or kinking.
- **Sectioning**
  - Allowed for partial replacement in some cases.
  - Refer to the vehicle specific repair procedure(s) for additional information.
- **GMA Welding**
  - Allowed on minor tears and punctures.
  - Refer to the General Repair Guidelines for additional information.

Ultra High-Strength Steel (Cold Stamped)

No repairs are allowed on this material.

- **Sectioning**
  - Allowed for partial replacement in some cases.
  - Refer to the vehicle specific repair procedure(s) for additional information.
- **GMA Welding**
  - Allowed on minor tears and punctures.
  - Refer to the General Repair Guidelines for additional information.

Aluminum Sheet

Only use aluminum-specific tools and equipment when repairing bare aluminum.

- **Cold Straightening:**
  - Allowed for minor dent repairs.
- **Heat Straightening:**
  - Allowed for minor panel damage.
  - Do not exceed 600°C (1112° F).
- **Sectioning**
  - Allowed for partial replacement in some cases.
  - Refer to the vehicle specific repair procedure(s) for additional information.

Aluminum Extrusion

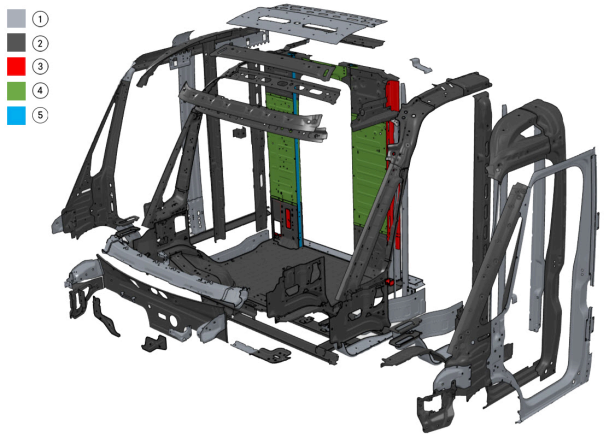
These components are not repairable and must be replaced.

Plastic

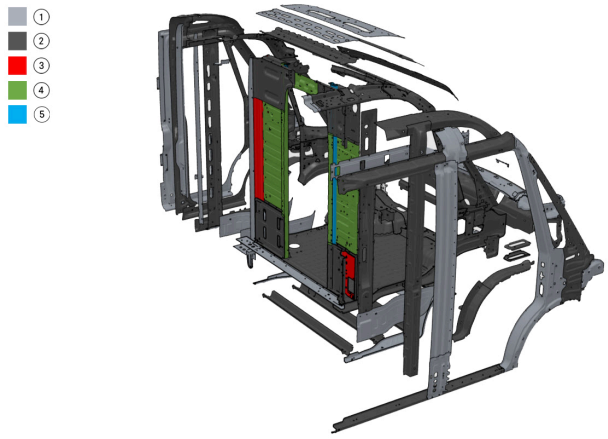
These components can be repaired with special tools, equipment, and proper training.

Body Structures - Cab

Quarter View - Left, Front



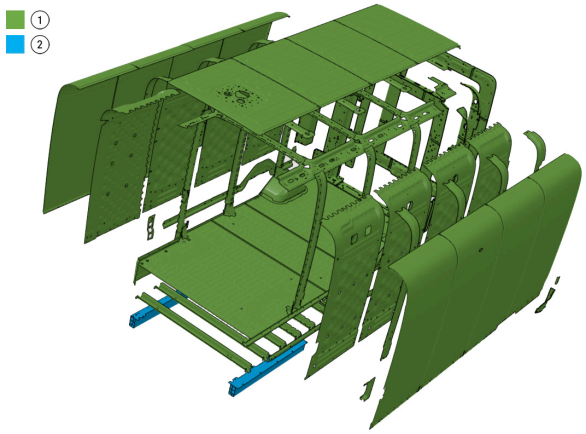
Quarter View - Right, Rear



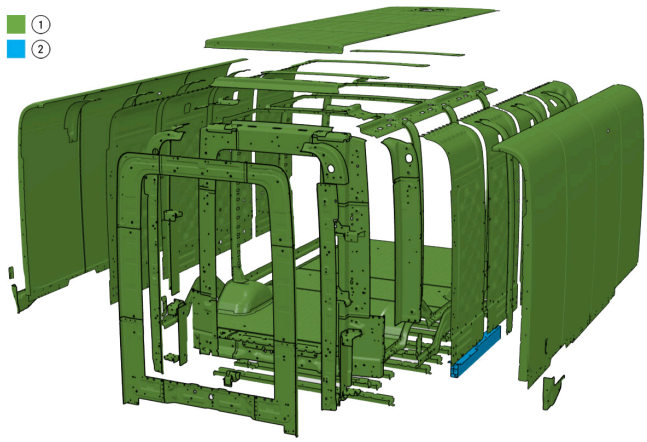
Callout	Material Type
1	Conventional Steel
2	Advanced High-Strength Steel
3	Ultra High-Strength Steel
4	Aluminum Sheet
5	Aluminum Extrusion

Body Structures - Box

Quarter View - Left, Front



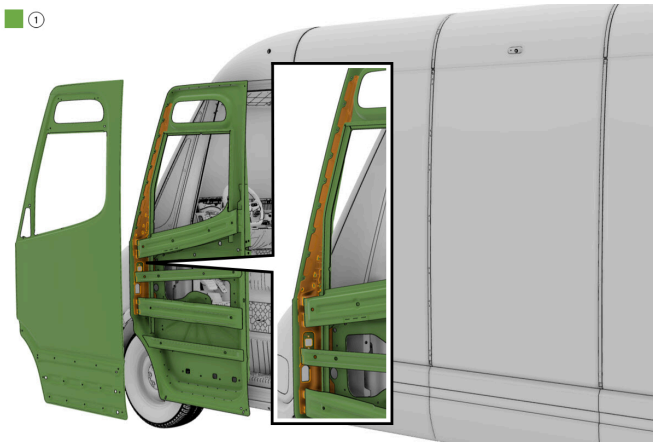
Quarter View - Right, Rear



Callout	Material Type
1	Aluminum Sheet
2	Aluminum Extrusion

Body Structures - Closures

Note: The highlighted component inside door frame is not repairable and must be replaced.



Callout	Material Type
1	Aluminum Sheet
2	Advanced High-Strength Steel

Callout	Material Type
1	Aluminum Sheet

Body Structures - Exterior Trim

Callout	Material Type
1	Plastic

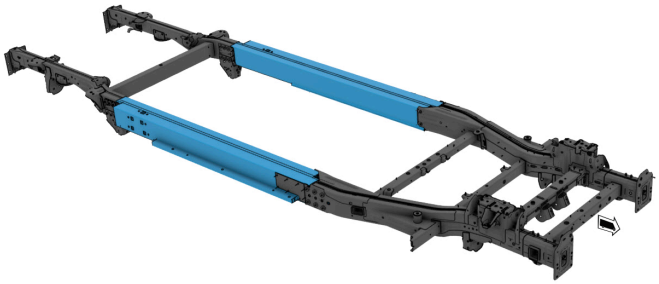
Frame Structure

Quarter View - Left, Front

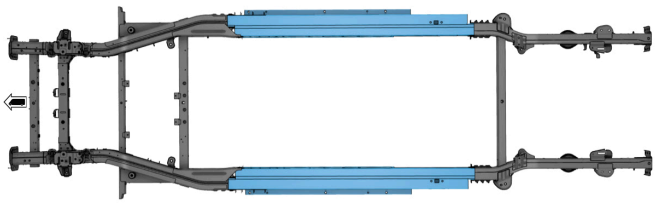
Callout	Material Type
1	Advanced High-Strength Steel
2	Aluminum Extrusion

Frame - Additional Views

Quarter View - Right, Front



Top View



Bottom View