

# RCI-38-23-001-1: Drive Unit Replacement due to Impact

## Rivian Automotive, LLC Position Statement

<b>Document Type</b>	Collision Repair Information Document
<b>Date</b>	April 17, 2023
<b>Affected Region(s)</b>	All
<b>Affected Model(s)</b>	R1T, R1S, EDV
<b>Model Year(s)</b>	2022+
<b>Vehicle System</b>	38 - Front Drive Unit

Rivian has established important guidelines regarding collision repair and interaction with parts on Rivian vehicles to help ensure the vehicle is repaired to Rivian standards. Certified Collision Centers and the collision industry must follow these guidelines to uphold Rivian's standards of safety and quality.

Repair guidelines, position statements, and repair procedures published by Rivian are engineered and tested to help ensure Rivian vehicles are repaired to provide quality, performance, safety, and durability. To meet [Rivian Repair standards](#), repairs should be performed by Rivian Certified Technicians using Rivian approved repair procedures, tools, and Rivian Original Equipment Parts.

Always refer to the appropriate Rivian Repair procedure for the most up to date information regarding specifications as well as location, position, operation sensitivity, part numbers and any revisions listed.

### Overview

An impact-like event can cause damage to a component that is not externally visible. If a Drive Unit Assembly show signs of impact damage, the surrounding components (steering/subframe/connectors/lines etc.) must be inspected for damage. If it is decided that the original Drive Unit will remain in the vehicle, contrary to the intent of this document, we recommend having the decision of the appraiser or insurance company officer confirmed in writing with an accompanying signature.

### Drive Unit Replacement

The front and rear Drive Unit should be replaced when:

- A Drive Unit mount is broken due to impact.
- The Halfshaft Assembly is shearing.
- The Halfshaft input splines are damaged.
- Coolant is leaking from the Drive Unit Assembly.
- Gear oil is leaking from the Drive Unit housing or casing.
- The Drive Unit housing or casing has exterior damage.
- The Drive Unit High Voltage (HV) components are damaged.
- A fault code that the Drive Unit is malfunctioning or the requires the replacement of the Drive Unit.
- The Drive Unit is producing excessive noise or operating improperly.

### Drive Unit Repairs

#### Allowable Repairs:

- Replacement of halfshaft seals.
- Replacement of halfshaft assemblies.
- Replacement of halfshaft bolts.
- Replacement of Drive Unit mounts.
- Replacement of Rear Disconnects.
- Replacement of the Drive Unit Acoustic Cover (often referred to as the NVH cover).

#### Not Allowed Repairs:



- Repairs to the HV components of the Drive Unit.
- Repairs to the Drive Unit housing or casing.
- Repairs to the halfshaft assemblies.
- Repairs to address coolant leaks from the Drive Unit.
- Repairs to the Drive Unit mounts.

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