

RCI-86-22-002-3: Driver+ Calibration Requirements and Best Practices, EDV

Rivian Automotive, LLC Position Statement

Document Type	Collision Repair Information Document
Date	March 11, 2024
Affected Region(s)	USA
Affected Model(s)	EDV
Model Year(s)	2022-Present
Vehicle System	86 - Driver Assistance

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.

Driver+ Overview

Driver+ is Rivian's suite of Advanced Driver-Assistance Systems (ADAS). The system is comprised of cameras, radar sensors, antennas, and ultrasonic sensors that aid with vehicle operation. To meet Rivian Standards, all repairs and calibrations involving Driver+ components should be performed by a Rivian Certified Technician at either a Rivian Service Center or Rivian Certified Collision Center. After repair, the Driver+ system will need to be calibrated before the vehicle can be returned to the customer. Refer to the appropriate service procedure(s) for detailed and vehicle-specific calibration instructions.

Always refer to the appropriate Rivian Service Manual for information on removal, installation, fault tracing, and calibration.

Warning:

Improper maintenance and calibration of Driver+ components may result in catastrophic failure of the system, which can cause severe injury or death.

Note:

Third-party external vehicle films such as vinyl wrap or Paint Protection Film (PPF) that are not manufactured by XPEL may affect the performance of Driver+ components.

Important:

The modification of Rivian approved tools or resizing of calibration targets is strictly prohibited. Modifications and resizing can result in improper calibrations that may compromise the safe operation of the vehicle.

Camera Calibration Requirements

Camera Calibration Requirements

Camera	Calibration Style	Calibrate When:
Camera, Long Range, Front	Static	<ul style="list-style-type: none"> Camera, Long Range, Front is replaced or removed and installed Camera, Long Range, Front, Bracket is replaced or removed and installed
Camera, Driver Assistance, Front	Static or Dynamic	<ul style="list-style-type: none"> Camera, Driver Assistance, Front is replaced or removed and installed Camera, Driver Assistance, Front, Bracket is replaced or removed and installed

Camera	Calibration Style	Calibrate When:
Camera, Lane Change	Static	<ul style="list-style-type: none"> • Camera, Lane Change, is replaced or removed and installed • Side Mirror is replaced or removed and installed

Surround View System

Camera	Calibration Style	Calibrate When:
Camera, Bumper, Front	Static	<ul style="list-style-type: none"> • Camera, Bumper, Front is removed and replaced • Camera, Surround, Side is removed and replaced • Camera, Surround, Rear is removed and replaced • Camera and Bracket, Surround, Side, LH and/or Camera and Bracket, Surround, Side, RH is replaced or removed and installed <div style="border: 1px solid black; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p>Note: If the upper front fascia or front grille is replaced or removed and installed, check for image clarity on the center information display to determine if calibration is necessary</p> </div>
Camera, Surround, Side		
Camera, Surround, Rear		

Radar Calibration Requirements

Radar Calibration Requirements

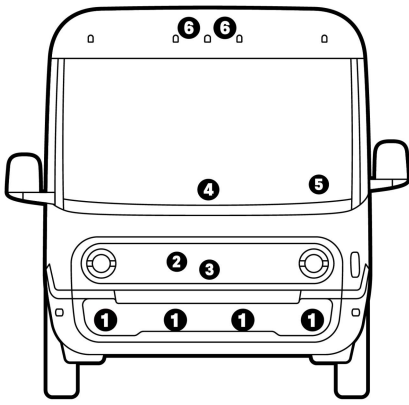
Camera	Calibration Style	Calibrate When:
Sensor, Radar, Front, Center	Static or Dynamic	<ul style="list-style-type: none"> • Sensor, Radar, Front, Center is replaced or removed and installed • For front upper fascia removal and install, no calibration is necessary if you confirm radar angle is the same before and after the repair is performed

Important:

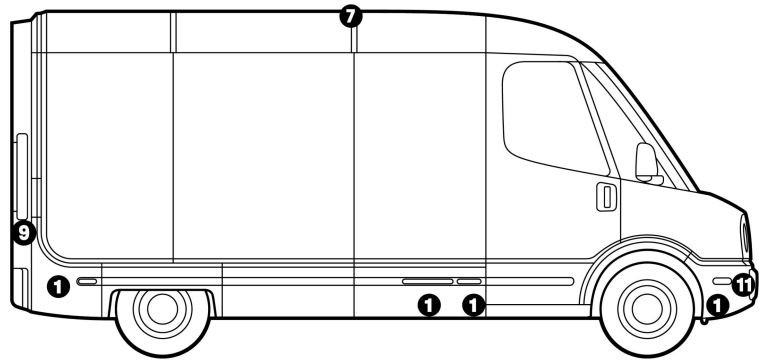
All new radar components must be variant coded when installed. Variant coding is not needed if the radar is removed and re-installed. Refer to the appropriate RiDE procedure.

Driver+ Component Locations

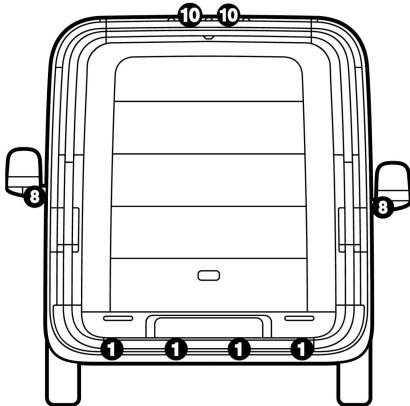
Front View



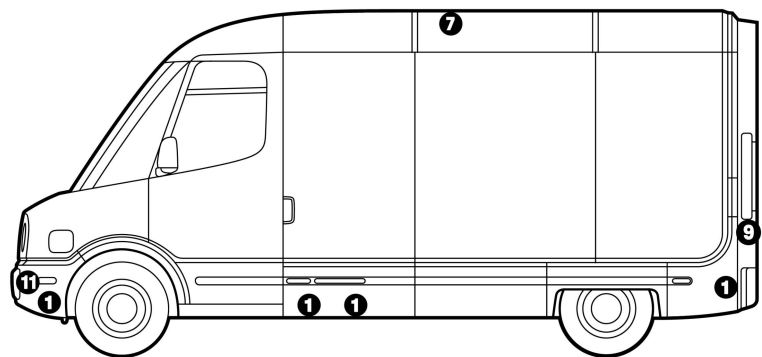
Right View



Rear View



Left View



Number	Component Type
1	Ultrasonic Sensor(s)
2	Sensor, Radar, Front, Center
3	Camera, Bumper, Front
4	Camera, Driver Assistance, Front
5	Camera, Long Range, Front
6	Camera, Stereo Vision, Front
7	Camera, Surround, Side
8	Camera, Lane Change
9	Sensor, Corner Radar, Rear
10	Cameras and Bracket, Rear
11	Sensor, Corner Radar, Front

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