

# Mandatory Digital Structural Measuring for Lucid Vehicles

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**This position statement defines Lucid Motors' digital structural measuring requirements for collision-damaged Lucid vehicles.**

Lucid Motors requires pre and post structural repair, three-dimensional (3D) digital measurement reports of the area under repair, from an approved digital measurement system for all structural repairs. This applies to the body structure components in the Key Structural, ADAS, and Crash Safety System Mounting list.

Structural damage is any deformation, crack, or separation that affects the alignment or integrity of the vehicle body or safety systems. See [Key Structural, ADAS, and Crash Safety System Mounting](#) on page 2.

Complete the following steps before performing any structural repairs:

1. Take measurements before (pre measurement) and after (post measurement) every repair to validate:
  - Pre - The original damaged structure has been modified by an impact that has caused more than 3 mm positional distortion which requires the part to be replaced.
  - Post - Verifies that the repaired structure is within the original dimension requirements, as described in Lucid Motors Structural Repair Procedures.
2. Complete the required measurements before alignment and the calibration of any ADAS or safety systems.
3. Upload the 3D measurement reports to the correct vehicle file in the Lucid Repair Tracker.

## Approved Digital Measurement Systems:

Digital measuring systems find damage during repair planning and help align structural components before the application of final adhesives and fasteners. The approved systems for Lucid vehicles are:

- **Carbench:** Contact Evolution
- **Celette:** Naja
- **Spanesi:** Spanesi Touch
- **Car-O-Liner:** Vision X2

Accurate measurements keep the vehicle structure dimensionally correct, which is essential for proper ADAS and safety system operation.

For details on approved measurement systems, refer to the Lucid Motors Approved Tooling Guide and all Lucid Motors Structural Repair Procedures.

## Key Structural, ADAS, and Crash Safety System Mounting

### Locations: Body-in-White (BIW) (Items Highlighted in Red)

 **Note:** Measure the mounting locations of the red-highlighted replacement parts using the points indicated in the approved digital measurement systems.

- Front Frame Rails
- Front Impact Bar
- Spring Towers
- Front Torque Box (Inner and Outer)
- Bodyside Outer and Inner Side Structures
- Rear Wheelhouse
- Rear Frame Rails
- Rear Torque Box
- Trunk Closeout Panels
- Rear Impact Bar
- Rear Door Intrusion Beam
- Rear Subframe
- Front Subframe
- Rear Crossmember Assembly/Outer

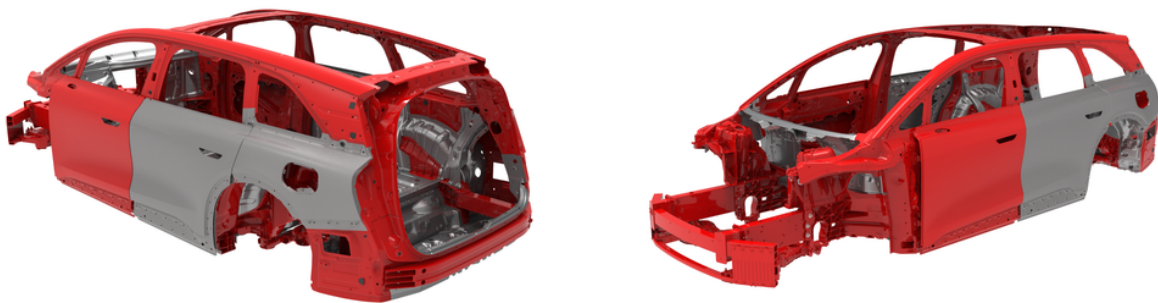


Figure 1: Gravity



Figure 2: Air

## Exterior Surfaces (Items Highlighted in Red)

 **Note:** Measure the mounting locations of the red-highlighted replacement parts using the points indicated in the approved digital measurement systems.

- Front End Module (FEM)
- Driver's Doors
- Liftgate Assembly



Figure 3: Gravity



Figure 4: Air