

Fascia Repair and ADAS Systems Effectiveness

Fascia Repair Position Statement

04-MAY-2023

Lucid Motor's Lucid Air is equipped with an Advanced Driver Assistance System (ADAS) that enhances the safety and driving experience of the driver and occupants. The original fascias on a Lucid Air include five different types of sensor systems:

- Short Range Radar (SRR)
- Long Range Radar (LRR)
- Light Detection and Ranging (LIDAR)
- Camera Suite
- Ultrasonic Sensor Suite

The Lucid Air's SRR suite is designed to operate through a very specific set of parameters specifically material thickness. Each SRR unit is calibrated to the thickness of the fascia assembly, which includes the thickness of the paint, to ensure its correct functionality.

Only certain fascia repairs are allowed on a Lucid Air. The only repair that is allowed is the physical repairs to the plastic substrate in the center section of the fascia assemblies.

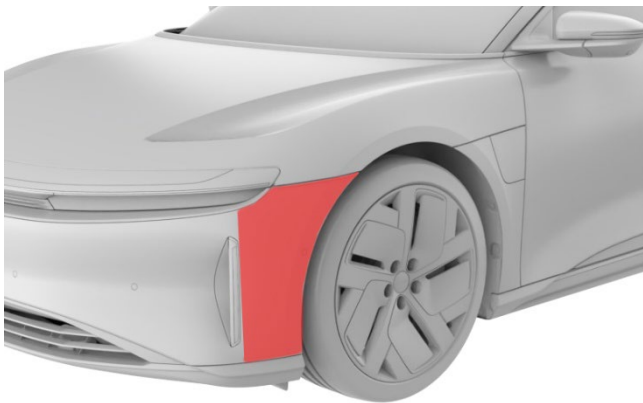


Figure 2



Figure 1

Note: The red areas in *Figures 1 and 2* are non-repairable sections.

Only one standard application of clearcoat of the Short-Range Radar (SRR) field of view (FOV) is allowed on fascia assemblies. This is to ensure optimal performance of the radar units after a repair has been performed. A factory finish paint thickness should measure 2.8mils (+-.2). After repairs have been completed, the total mil build thickness over the SRR units behind the front and rear fascias should not exceed 5.1mils. Lucid Motors requires the mil build of the areas over the SRR units to be measured before repairs are attempted. If the mil build before repairs is greater than 4.4mils fascia replacement is required.

When should ADAS calibration be performed?

In general, any repair that physically removes disconnects, or otherwise impacts the position/orientation of an ADAS sensor.

The Lucid Diagnostic System (LDS) is required to perform all vehicle diagnoses.

Paint Measurement Required Tooling:

- Positector 200 (for measuring the paint thickness of the fascia assemblies)

Lucid Diagnostic System (LDS) Requirements:

- All ADAS calibrations are accessed via the LDS.
- LDS licenses can be provided via email request to BodyRepairProgram@Lucidmotors.com
- Only hardware requirement is a Windows 10 computer, ethernet cable, & ethernet port or adapter.

ADAS Calibration Requirements:

- Tooling Requirement
 - Snap-On TruPoint system (for providing the approved target suite & positioning software)
- Space Requirements
 - 30ft length x 15ft width maximum area.
 - No harsh direct sunlight on targets.