

Part 573 Safety Recall Report

22V-351

Manufacturer Name : Lucid Motors, Inc.**Submission Date :** MAY 18, 2022**NHTSA Recall No. :** 22V-351**Manufacturer Recall No. :** NCR-22-01-0**Manufacturer Information :**

Manufacturer Name : Lucid Motors, Inc.

Address : 7373 Gateway Blvd.

Newark CA 94560

Company phone : 1-510-648-3553

Population :

Number of potentially involved : 1,117

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2022-2022 Lucid Air (All grades)

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : NR

Descriptive Information : The center and left display wiring harness may not have adequate clearance from the steering intermediate shaft, which could lead to chafing of the harness and loss of display updates. Lucid established a clean point at its manufacturing plant for vehicles with production dates beginning with May 4, 2022. All Lucid vehicles manufactured prior to the clean point are potentially affected. For vehicles manufactured after the clean point, Lucid is ensuring any excess harness length is adequately secured prior to harness installation. Vehicles manufactured after the clean point are not part of the recall population. Lucid is implementing an engineering change to obtain shorter harnesses that will not require securing of excess length. Lucid estimates that 1,117 vehicles delivered to customers are potentially affected by below spec clearance. Lucid has no evidence of actual FMVSS non-compliances resulting from this condition in either customer cars or vehicles in Lucid's possession, and estimates that fewer than 1% of vehicles will have such a non-compliance. This non-compliance does not affect current production as a clean point has been established.

Production Dates : OCT 22, 2021 - MAY 04, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Description of Noncompliance :

Description of the Noncompliance : The Center and Left Display Wiring Harness may not be adequately secured. Lucid has determined that on certain 2022 Lucid Air models the harness containing the ethernet wiring for the center and left driver displays may not be secured properly. This could result in chafing of the harness due to contact with the steering intermediate shaft. Damage to the harness could lead to a potential loss of data communications to the displays. Loss of communication at these screens could interrupt updating of the speedometer, gear selection indicators, telltales and other in-vehicle notifications, resulting in non-compliance with FMVSS 101.

FMVSS 1 : 101 - Control and displays

FMVSS 2 : NR

Description of the Safety Risk : Below specification could result in chafing of the harness, leading to loss of data updates to the driver center and left consoles. Loss of data updates for display of the speedometer, gear selection indicators, telltales and certain other in-vehicle notifications is non-compliant with FMVSS 101.

Description of the Cause : Some cable harnesses accepted with excess length for the installation location were not adequately secured during installation, resulting in below specification clearance to the steering intermediate shaft.

Identification of Any Warning that can Occur : Loss of display updates could be intermittent or occur without warning.

Involved Components :

Component Name 1 : Vehicle Body Harness

Component Description : Body Control Module to Instrument Cluster Controller/Driver Monitor System Ethernet Connection

Component Part Number : P11-J50000-03

Supplier Identification :

Component Manufacturer

Name : Aptiv

Address : 5725 Innovation Drive
Troy Michigan 48098-2852

Country : United States

Chronology :

On April 28, 2022, Lucid Engineering discovered a harness with below spec clearance to the steering shaft in a vehicle at Lucid HQ. On April 29, Lucid began inspecting all vehicles in the plant and correcting any with below spec clearance. Of the vehicles initially inspected, the harness was touching the steering shaft on approx. 2% of vehicles. Lucid began inspecting all vehicles in its possession and ensuring the harnesses are secured. On April 29, Lucid established a clean point at the plant for vehicles with production dates beginning May 4, and implemented a temporary countermeasure to secure excess harness length prior to harness installation. As of May 17, Lucid has inspected all of the vehicles in the plant.

On May 2, Engineering notified the Product Safety Working Group (PSWG) of a potential concern with harnesses in customer vehicles and began preparing to brief a presentation for the PSWG. The PSWG convened on May 5 to review the presentation and determined to evaluate the potential for harness chafing as the wires supply data to the driver console. From May 5-9, Engineering conducted testing to evaluate the concern. On May 10, the PSWG reviewed test results and analyzed safety and compliance concerns.

On May 11, the PSWG recommended a recall to the Product Safety Executive Council (PSEC) due to the possibility of chafing leading to loss of data updates to the center display, resulting in noncompliance with FMVSS 101. The PSEC concluded that, though not aware of any failures due to the condition, out of an abundance of caution Lucid would initiate a recall.

Description of Remedy :

Description of Remedy Program : All owners of subject vehicles will be notified by first class mail with instructions to contact Lucid to schedule inspection and, if necessary, securing, of the subject wiring harness AT NO COST to the customer. Technicians will perform a visible inspection of the harnesses. If technicians identify a harness with below spec clearances, they will secure the harness with adequate clearance AT NO COST to the customer. If technicians identify a chafed harness, technicians will replace the harness and ensure it is secured with adequate clearance AT NO COST to the customer. In accordance with 49 CFR 573.13(c), Lucid will reimburse owners for costs an owner reasonably incurred to obtain a remedy for this noncompliance during the period starting from initial vehicle delivery through 10 days after Lucid's mailing of the owner notification letter concerning this noncompliance. If an owner has such a claim for pre-notification reimbursement, they may contact Lucid Customer Care at 1-888-99-LUCID or 1-888-995-8243.

How Remedy Component Differs from Recalled Component : All harnesses will be inspected and secured with adequate clearance. Harnesses with any visible sign of chafing will be replaced with a new harness and secured with adequate clearance.

Identify How/When Recall Condition was Corrected in Production : On April 29, 2022, Lucid implemented a temporary countermeasure to secure the excess harness length for each harness prior to installation in the vehicle at Lucid's manufacturing plant. Lucid is implementing an engineering change to obtain harness without excess length. Until the engineering change is implemented, Lucid will continue performing the temporary countermeasure.

Recall Schedule :

Description of Recall Schedule : Owners will be notified by email and US First Class Certified mail.

Planned Dealer Notification Date : JUN 20, 2022 - JUN 20, 2022

Planned Owner Notification Date : JUN 20, 2022 - JUN 20, 2022

* NR - Not Reported