

# Part 573 Safety Recall Report

# 23V-110

**Manufacturer Name :** Lucid USA, Inc.**Submission Date :** OCT 16, 2023**NHTSA Recall No. :** 23V-110**Manufacturer Recall No. :** SR-23-01-0**Manufacturer Information :**

Manufacturer Name : Lucid USA, Inc.

Address : 7373 Gateway Blvd.

Newark CA 94560

Company phone : 1-510-648-3553

**Population :**

Number of potentially involved : 886

Estimated percentage with defect : 13 %

**Vehicle Information :**

Vehicle 1 : 2022-2023 Lucid Air

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : NR

**Descriptive Information :** This Amendment 2 to the Defect Information Report for NHTSA ID 23V110 incorporates by reference the information previously submitted and revises the number of vehicles subject to the recall to add an additional 249 U.S. customer vehicles to the original 637 identified. This increase is due to a revised screening process implemented to account for increased susceptibility of the contactor defect during hot weather.

Production Dates : OCT 19, 2021 - FEB 22, 2023

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :****Description of the Defect :** A small population of contactors are susceptible to opening unexpectedly.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** If a contactor opens unexpectedly while driving, the vehicle's electric motors will no longer be supplied power. This may lead to a loss of propulsion without pre-warning and may increase the risk of a crash.

**Description of the Cause :** Contactors in which the spring force may overcome the magnetic holding force may unexpectedly open. These defective contactors exhibit double-dip current signatures during closing.

**Identification of Any Warning that can Occur :** The driver would not receive a warning prior to an unexpected contactor opening as a result of this condition. When an unexpected contactor opening occurs, the driver receives notifications of a system fault and that driving power is reduced. Vehicle displays, power steering, and power brakes will

continue to function as they are not powered by the high voltage system.

## Involved Components :

Component Name 1 : Contactor GXV600-010/-018

Component Description : Contactor, internally economized

Component Part Number : P00-HJ4100-00

## Supplier Identification :

### Component Manufacturer

Name : Sensata Technologies, Inc.

Address : 529 Pleasant Street

Attleboro Massachusetts 02703

Country : United States

## Chronology :

This chronology for Amendment 2 to the Defect Information Report for NHTSA ID 23V110 incorporates by reference the information previously submitted and adds the following. During the higher temperatures of May to August, 2023, Lucid identified three Lucid-owned and one customer-owned vehicle that had passed the initial one-time screening process, then later suffered a contactor failure. Thereafter, Lucid implemented additional screening of all vehicles with contactors prior to the factory clean point, using a rolling 100-cycle contactor closing window to determine whether the 5% double-dip threshold was exceeded. The new screening to account for higher temperature exposure identified an additional 249 U.S. vehicles with suspect contactors.

## Description of Remedy :

**Description of Remedy Program :** Owners of subject vehicles will be notified by first class mail with instructions when to contact Lucid to schedule replacement of contactors at NO COST to the customer. Owners of vehicles who did not download the software update for the double-dip test will be notified by first class mail to update their software at home or bring their vehicles to a Service Center for a software update. After Lucid analyzes the contactor data provided by the software update, Lucid will replace contactors showing a double-dip signature at least 5% of the time at NO COST to the customer. Lucid will reimburse owners for costs an owner reasonably incurred to obtain a remedy for this safety defect 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 :** Replacement contactors have been redesigned to have increased magnetic holding force and have undergone additional quality screening to ensure they do not exhibit a double-dip current signature during closing.

The four contactor failures identified between May and August 2023 were all contactors supplied prior to the supplier's clean point, but which had passed the original one-time screening process.

**Identify How/When Recall Condition was Corrected in Production :** As of the factory clean point on November 1, 2022, all contactors used in manufactured vehicles include the redesign for increased magnetic holding force or have undergone additional quality screening to ensure they do not exhibit a double-dip current signature during closing.

To account for increased risk due to higher temperature exposure, Lucid used contactor serial numbers to identify and re-screen all vehicles with contactors supplied prior to the factory clean point.

## Recall Schedule :

**Description of Recall Schedule :** Owners of the 273 known affected vehicles will be notified by first class mail with instructions that they may contact Lucid Customer Care or a Lucid Certified Service Center to schedule the recall repair. There will be NO COST for this service.

Owners of the 336 vehicles requiring a software update to assess their contactors will be notified via first class mail with instructions to bring their software up to date or to contact Lucid Customer Care or a Lucid Service Center for assistance in bringing their software up to date. Lucid will evaluate the contactor closing signatures of updated vehicles to determine whether any require contactor replacements and will notify those customers needing replacement to contact Lucid Customer Care or a Lucid Service Center to schedule the recall repair. Owners of updated vehicles that have not completed double-dip testing by April 21, 2023, will be notified by first class mail with instructions that they may contact

Lucid Customer Care or a Lucid Certified Service Center to schedule the recall repair. Lucid will send reminder emails to all customers who have uncompleted recall campaigns every six months.

Owners of the 249 vehicles identified as part of this Amendment will be notified by first class mail with instructions that they may contact Lucid Customer Care or a Lucid Certified Service Center to schedule the recall repair. There will be NO COST for this service.

Planned Dealer Notification Date : FEB 22, 2023 - FEB 22, 2023

Planned Owner Notification Date : NOV 20, 2023 - NOV 20, 2023

\* NR - Not Reported