

Lucid Group Inc. Technical Service Campaign

TSC Number: TSC-H0224-013-02	Date: 02/15/2024
Document Classification: Perform on next service visit	Model: Lucid Air
	Year: 2022-2023
Title: Coolant Heater May Fail to Defrost Windshield	Region: All Regions

Concern

Defrosters may not perform to design standards.

Cause

Possible coolant heating element internal failure.

Correction

Update the Software (minimum v2.1.52) and/or replace the High Voltage Coolant Heater if necessary.

Parts Information

Part Number	Part Description	Qty
P11-M20101-01	HEATER,WATER, HVH70 GEN 1.5	As needed

Warranty Information

To help ensure that all vehicle repairs are claimed correctly, reference the following when creating work orders for this Technical Service Campaign:

Job Code: TSC-H0224-013-02

Pay Type
Pre-Delivery Vehicles: Rectify
Post-Delivery Vehicles: Campaign

Defect Code: TSC

Causal Part Number

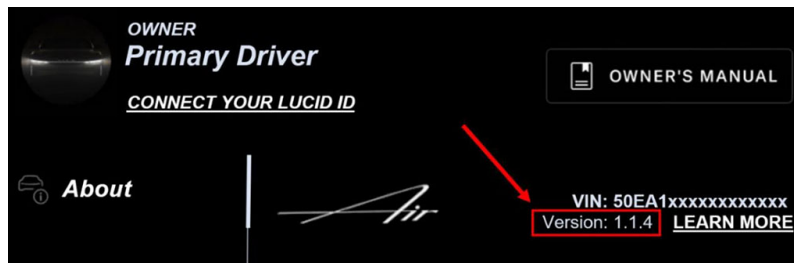
Part Number	Part Description	Qty
P11-M20101-01	HEATER,WATER, HVH70 GEN 1.5	As needed

Use the following Labor Operation Codes that reflect the procedure performed on the vehicle:

Labor Op Code	Description	Action	FRT
55.053511	TSC-H0224-013 Coolant Heater May Fail to Defrost Windshield	No Software update required + Heater performance test ok	0.1
55.053512	TSC-H0224-013 Coolant Heater May Fail to Defrost Windshield	No Software update required + Heater performance test failed + Replace HVCH	4.1
55.053513	TSC-H0224-013 Coolant Heater May Fail to Defrost Windshield	Software update required + Heater performance test ok	0.9
55.053514	TSC-H0224-013 Coolant Heater May Fail to Defrost Windshield	Software update required + Heater performance test failed + Replace HVCH	4.9

Technical Instructions



- Using the vehicle display, determine the currently installed Software version.



- Is the currently installed Software version 2.1.52 or newer?
 - YES: Proceed to **Defroster Performance Test**.
 - NO: Proceed to next step.
- Using the "OTA Service Request" tile in Lucid Garage, update to the **most current** Software version available (minimum v2.1.52). Refer to [Over The Air \(OTA\) Flashing](#).
- Check and clear DTCs. Refer to [DTCs Check and Clear](#).
- Proceed to **Defroster Performance Test**.

Defroster Performance Test

- Turn the windshield defrost mode ON.

 **Note:** Pressing the following icon (on the cockpit panel or from the pilot panel screen) puts the system into windshield defrost mode, with heat and fan speed on HIGH. 

- Run the defrost mode for a minimum of 2 minutes.
- Does the "DEFROST UNAVAILABLE" message appear? (see example)
 - YES: Proceed to **Coolant Heater Replacement**.
 - NO: Proceed to next step.



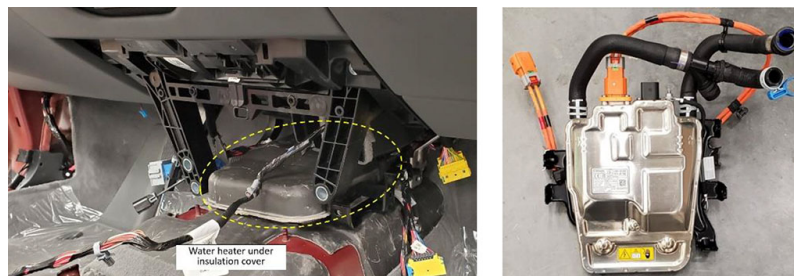
4. The TSC is now complete. No further action required. Release the vehicle.

Coolant Heater Replacement

1. Capture a clear, close-up photograph of the old and new Webasto serial number sticker attached to the High Voltage Coolant Heater, ensuring all numbers are legible. Attach both photographs to the work order, and clearly label them **Original Serial Number** and **Replacement Serial Number** for easy identification.



2. Replace the Coolant Heater Assembly. Refer to [Water heater HVH70 GEN1.5 Remove and Replace](#).



3. Proceed to **Defroster Performance Test** to check the defroster performance.