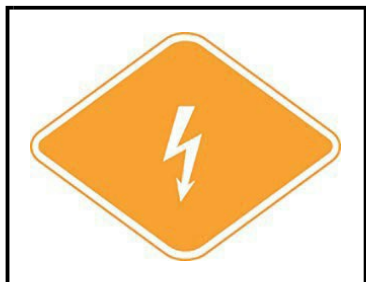
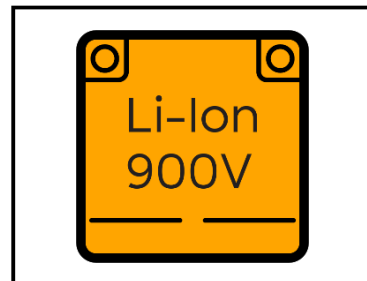


INFORMATION FOR FIRST AND SECOND RESPONDERS

EMERGENCY RESPONSE GUIDE

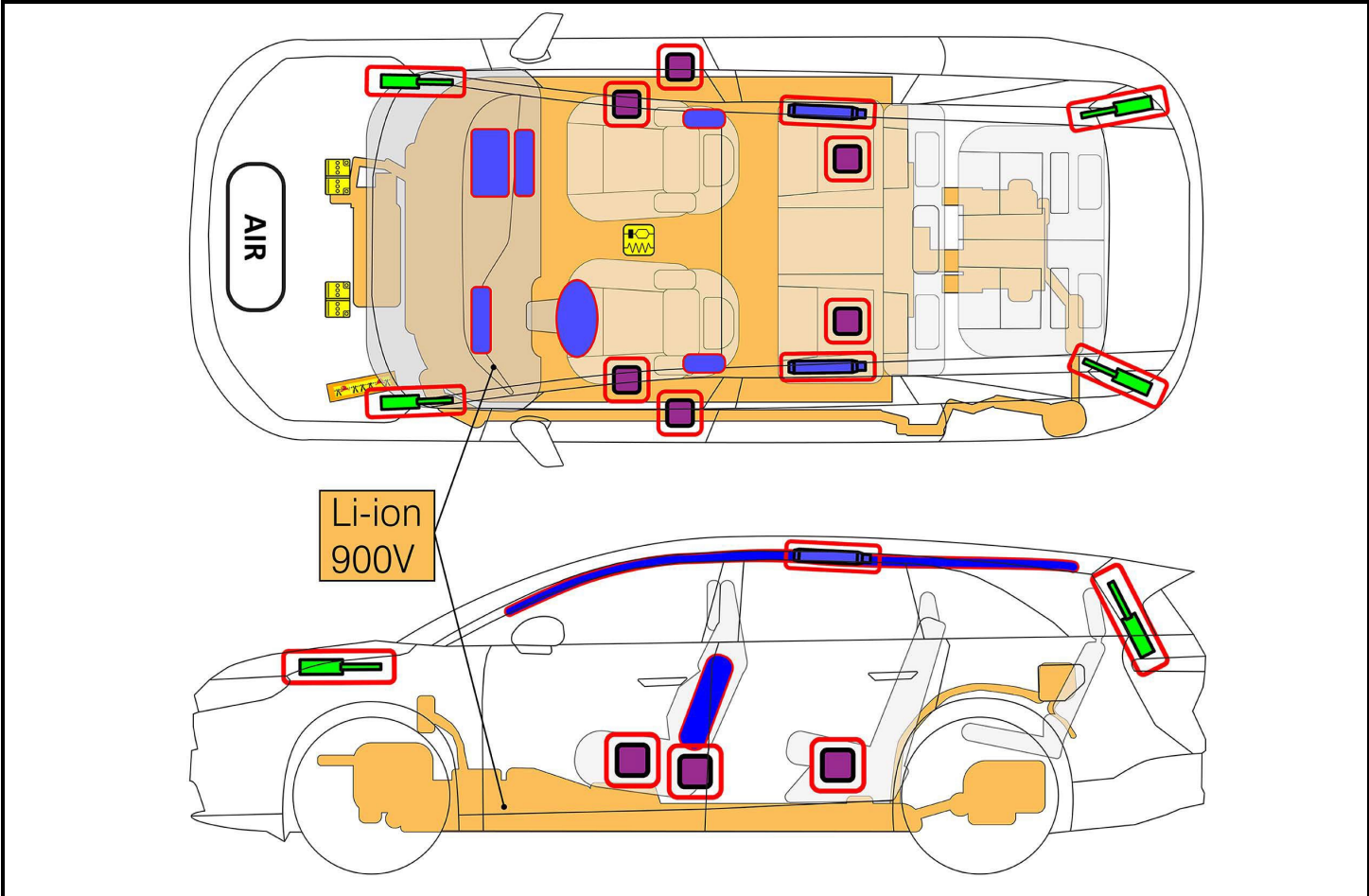


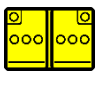
Lucid Gravity
Four Door SUV
2025+
Electric Vehicle



Contents

0. Rescue sheet	Page 3
1. Identification / recognition	Page 4
2. Immobilization / stabilization / lifting	Page 5
3. Disable direct hazards / safety regulations	Page 7
4. Access to the occupants	Page 13
5. Stored energy / liquids / gases / solids	Page 20
6. In case of fire	Page 24
7. In case of submersion	Page 29
8. Towing / transportation / storage	Page 30
9. Important additional information	Page 40
10. Explanation of pictograms used	Page 41



	Airbag		Stored gas inflator		Seatbelt pretensioner		SRS control unit		Pedestrian protection active system
	Automatic rollover protection system		Gas strut / pre-loaded spring		High strength zone		Zone requiring special attention		High voltage ultra-capacitor
	Battery low voltage		Ultra capacitor, low voltage		Fuel tank		Gas tank		Safety valve
	Battery pack, high-voltage		High voltage power cable		High voltage device that disconnects high voltage		Fuse box disabling high voltage		Ultra capacitor, high-voltage
	Cable cut				Compressed Air Tank				

1. Identification / recognition



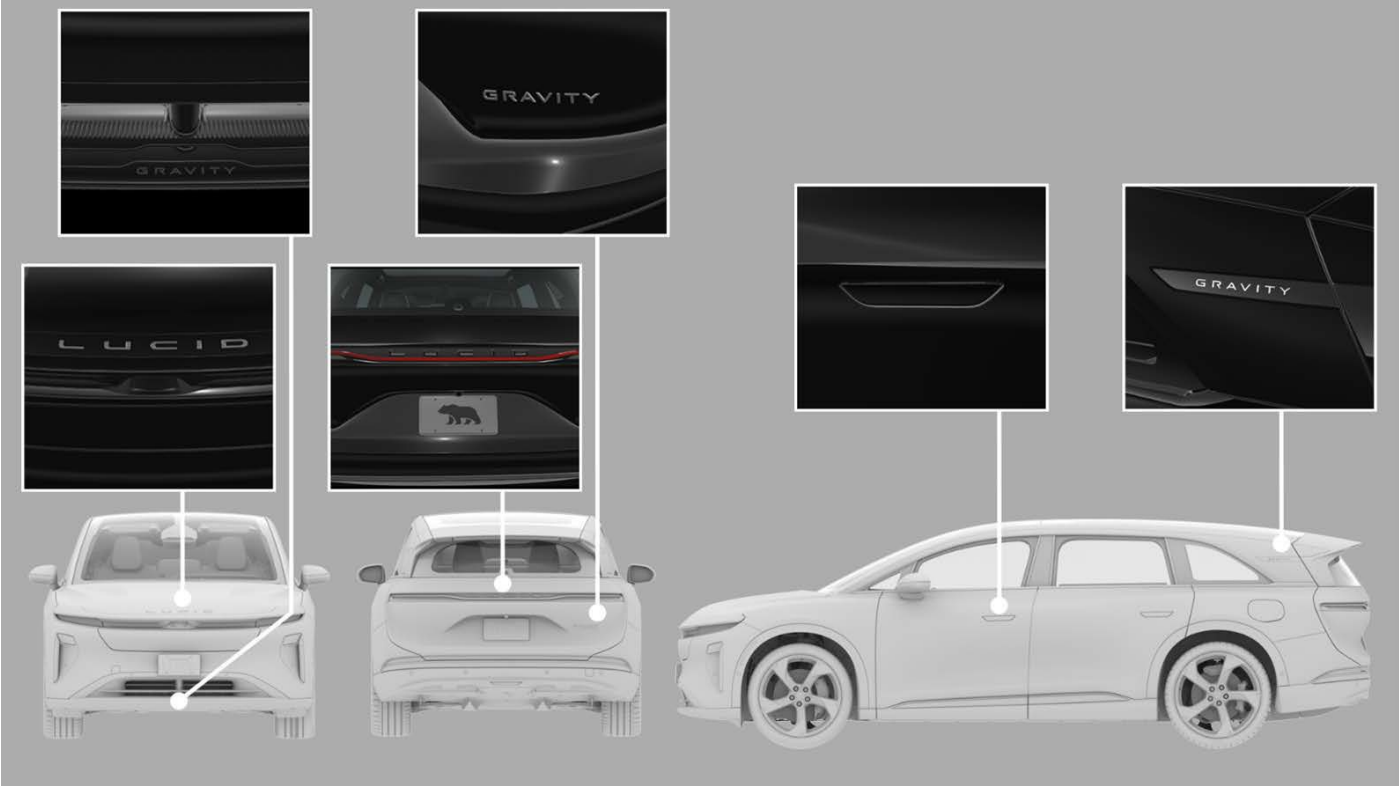
WARNING Lack of engine sounds does not mean the vehicle is off. Silent movement or instant restart capabilities exist until vehicle is fully shut down. Wear appropriate PPE.

Door Handles, Branding, and Badging

Lucid Gravity can be identified by its badges.

NOTE: Lucid Gravity vehicles are a dual motor configuration, with one motor on each set of drive wheels.

NOTE: Lucid Motors vehicles are fully electric vehicles.



Vehicle Identification Number (VIN)

Lucid Gravity can be identified by its VIN. The stamped plate may be located by looking through the driver’s side of the windshield or on the left-hand A-pillar with the door open. Lucid Gravity is identified with an “G” in the 4th alphanumeric position.



Touchscreen

Lucid Gravity can also be identified by a touch screen located where the dash meets the center console. Lucid Gravity also has a wide screen instrument cluster display.

If the vehicle airbags have deployed, touchscreens may not be accessible due to interruption of low voltage power. External low voltage power should not be applied after an accident due to the possibility of a low voltage electrical fire.



2. Immobilization / stabilization / lifting

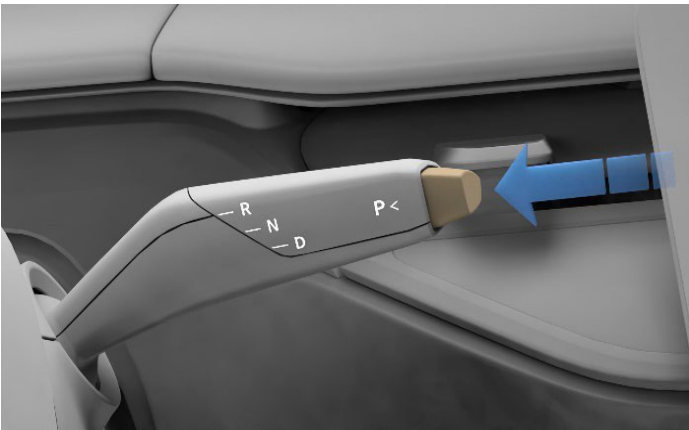
Immobilization Chock Wheels

Lucid Gravity moves silently, so never assume it is powered off. Lucid Gravity could potentially be free to roll if the parking brake is not engaged. Always chock the wheels.



Putting the Vehicle in Park

Lucid Gravity moves silently, so never assume it is powered off. Pressing the accelerator pedal while the Lucid Gravity is in Drive or Reverse may result in extremely rapid acceleration. Press the button located on the end of the Drive mode selector stalk, which is located on the right side of the steering column. Once in Park, a “P” will be indicated along the lower edge of the center gauge cluster, and the electronic parking brake should engage to immobilize the rear wheels.





STABILIZATION / LIFTING POINTS



WARNING Be careful to not damage the high-voltage battery pack while stabilizing the vehicle.

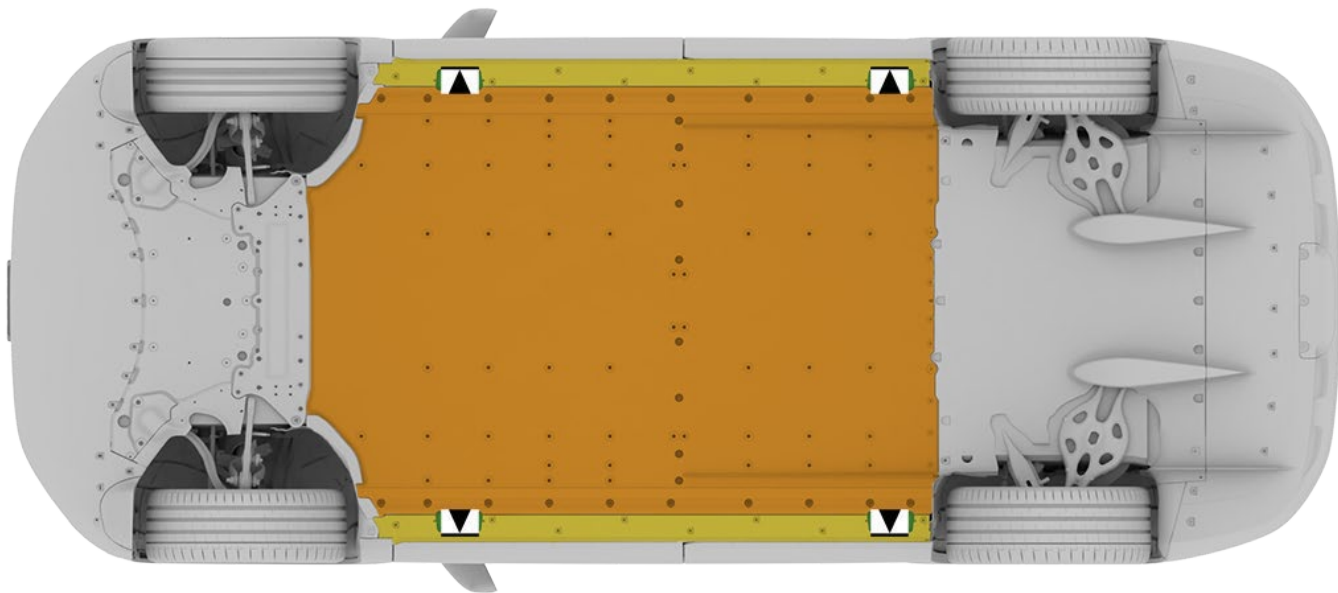


WARNING The vehicle should only be lifted or manipulated if the first responders are trained and equipped at the technician level per the applicable country's national fire training requirements and are familiar with the vehicle's lifting points. Use caution to ensure you avoid contact with the high-voltage battery or other high-voltage components while lifting or manipulating the vehicle.



WARNING Do not use the high-voltage battery pack to lift or stabilize the vehicle.

The high-voltage battery is located under the floor of the vehicle. When lifting or stabilizing the Lucid Gravity, use only the designated lift areas.



Approved lifting points



Safe stabilization points for a Lucid Gravity on its side.



High-Voltage Battery pack- Do not use for lifting or stabilization

3. Disable direct hazards / safety regulations

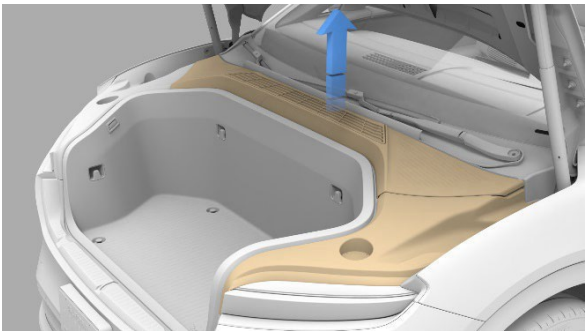
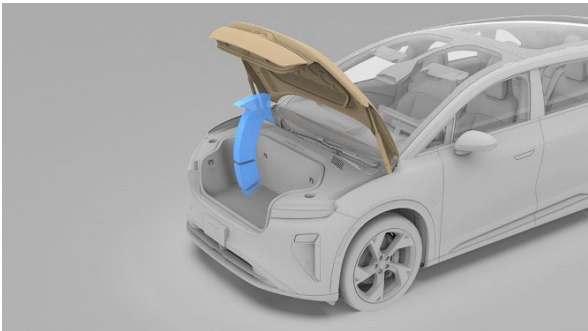
Access

The hood may be opened via:

- Touch Screen
- Key Fob
- Mobile App
- Manual Emergency Release cables

Instructions for the use of these methods may be found in **Section 4**.

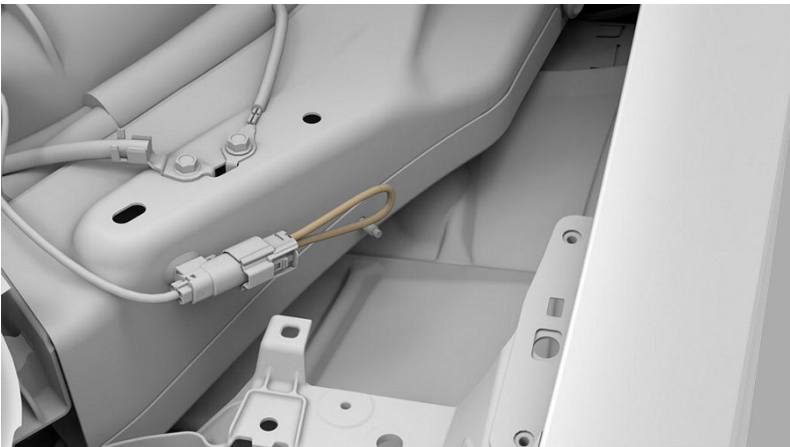
1. Open the hood. (See Section 4: Access to the Occupants).
2. Remove the access panel by pulling it upwards to release the clips that hold it in place.



Primary Disable Method

To isolate the high-voltage system, unplug the first responder loop.

Alternate/Emergency method: In an emergency scenario where time and/or access do not allow for plug disconnection, complete one cut on each side of the first responder loop label



WARNING Not every High-Voltage component is labeled. Always wear appropriate PPE. Always double cut the First Responder Loop. Do not attempt to open the High-Voltage Battery.

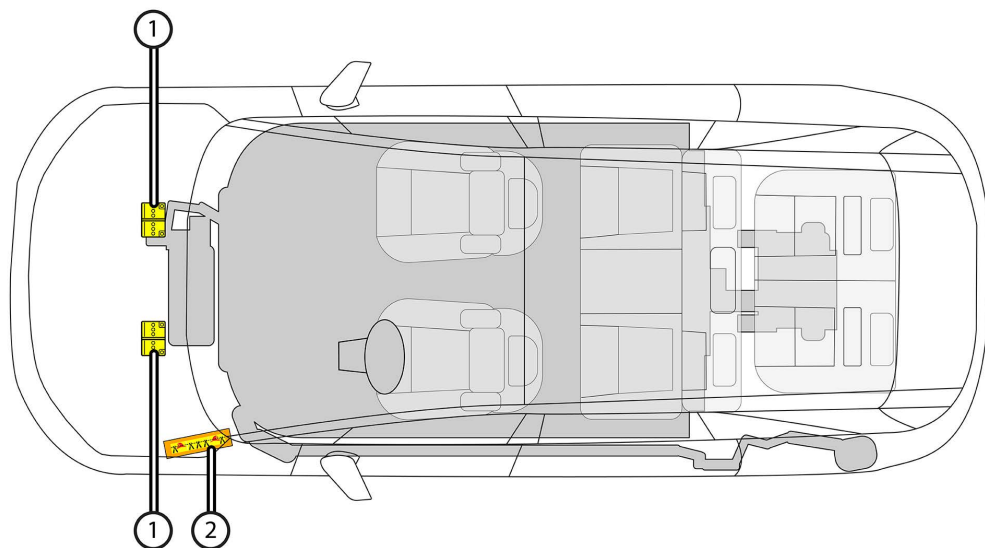




First Responder Loop

Unplugging/Cutting the first responder loop removes low-voltage power going to the high-voltage contactors inside of the high-voltage battery pack. Disconnecting the first responder loop does not disable the low-voltage battery system. Lucid Gravity is equipped with two low-voltage batteries for redundancy. They are located behind the frunk trim. One next to the left suspension tower and one next to the right suspension tower. Both low-voltage battery negative cables (2) should be disconnected or cut. If time and/or access do not allow for removal, then cut both negative cables. Both must be disconnected or cut in order to disable the low-voltage battery system, which powers the Supplemental Restraint System (SRS) control unit.

NOTE: Once the low-voltage battery negative cables have been cut, power accessories will no longer operate. This includes items, such as exterior door handles, windows, seats, and the steering column. It will also not be possible to disable the Electronic Parking Brake System.



- 1. Low Voltage Battery (qty 2)
- 2. First Responder Cut Loop

The first responder cut loop is located under the hood on the left-hand side near the suspension strut tower and is concealed by the cowl cover. To remove the cover, grasp the rear edge and pull up.



Continued on next page

Even if the first responder loop has been cut, always treat the high-voltage pack and the high-voltage components as if they are live. The pack will still have stored energy within the cells, and it is not known if other high-voltage components have been damaged. Treat every battery pack and orange cable as if there is high voltage in them. Never cut an orange high-voltage cable or cut into the battery pack.

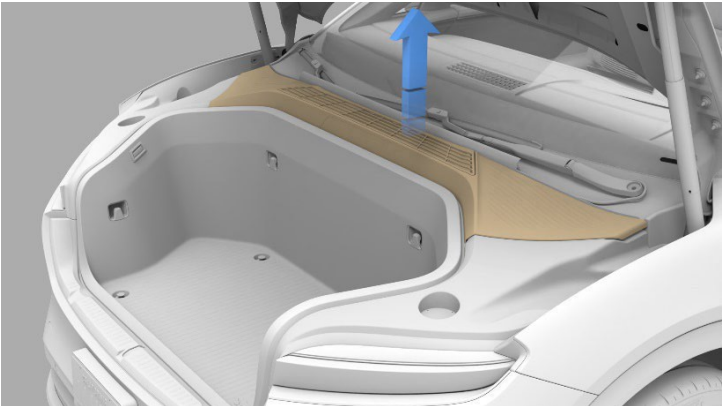
There is no way to instantaneously discharge the energy inside of the battery pack when a vehicle is in an accident. There is stored energy in the high-voltage battery cells. Caution must be used to not damage the battery pack, in the case of vehicle extrication operations.

Vehicle Charging

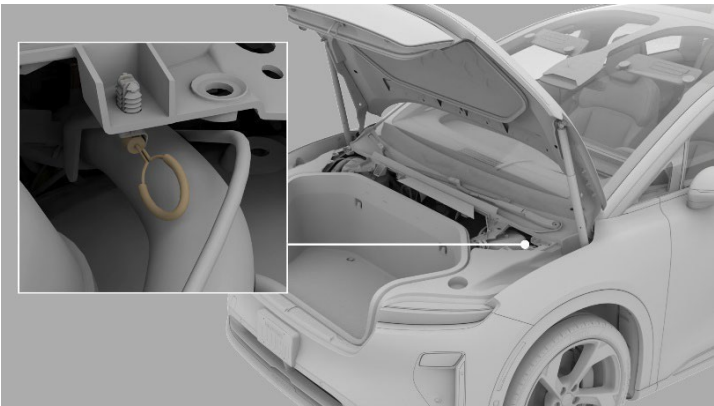
In the case of an emergency incident while charging that involves collision, electrical failure, or fire, additional steps should be taken to isolate the charging station. If the charging station is equipped with an e-stop, it should be applied. If an e-stop is not present or accessible, property management should be accessed to locate the main service disconnect and lockout/tagout breaker. After it has been located, immediately disconnect the EVSE handle at the vehicle by pressing the release button on the charging cable handle. If you are unable to disconnect via the handle button, the manual release can be actuated by opening the hood and pulling the manual release lever while unplugging the cable.



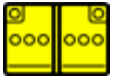
WARNING Do not cut the high-voltage charging cable. If the Electric Vehicle Supply Equipment (EVSE) is unable to be disconnected from the vehicle, ensure that the EVSE is de-energized before proceeding. Refer to the EVSE manufacturer’s instructions or Local Power Utility Agency. Cutting an energized cable may lead to serious injury or death.



Open the hood

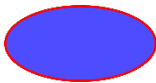
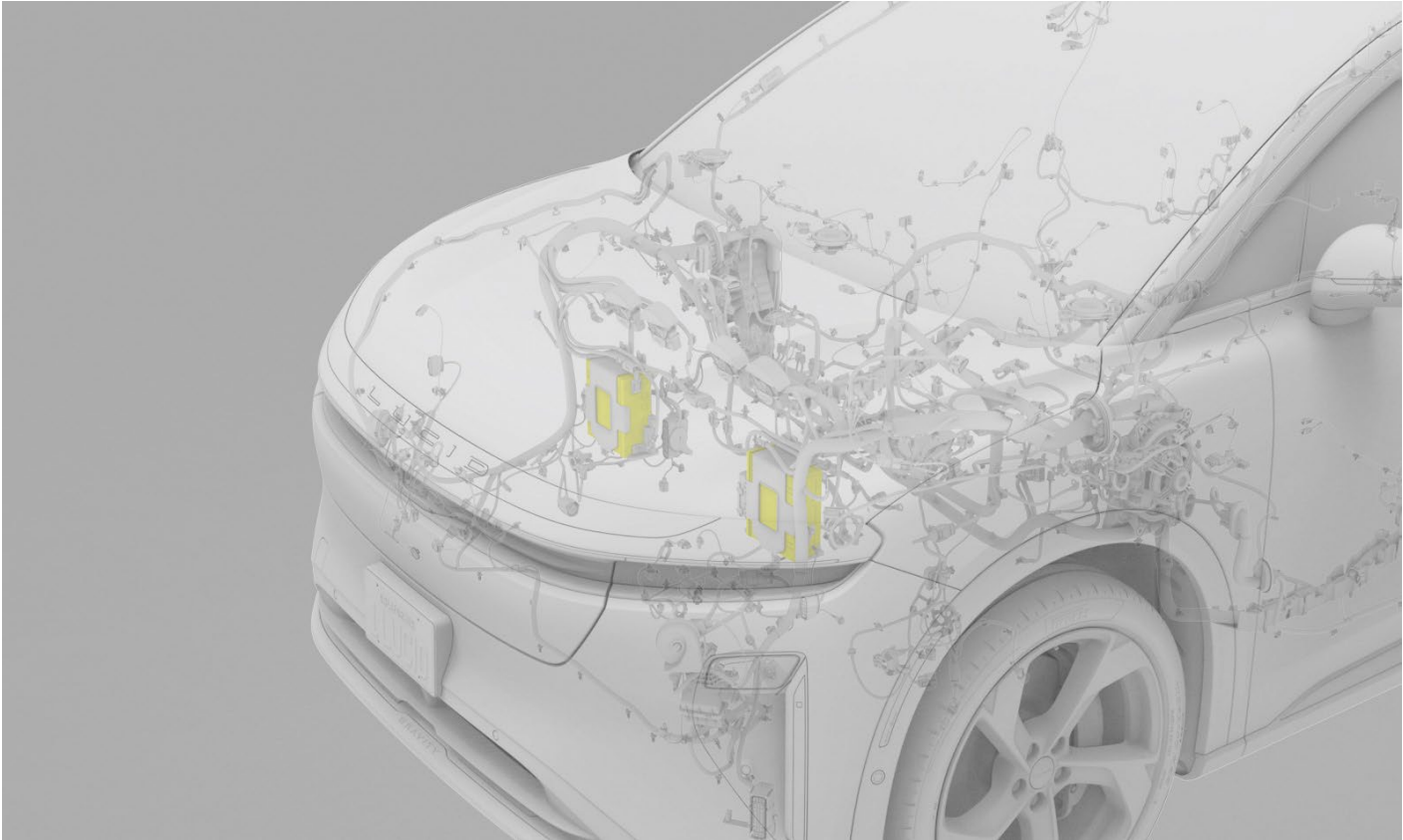


Pull the manual release lever while unplugging the cable.



Battery Low-Voltage

Both 12V batteries are located in the frunk and can be accessed by opening the front trunk (frunk). To safely access the batteries, ensure the vehicle is powered down and follow the appropriate safety protocols. For further instructions on accessing the frunk and battery compartments, refer to Section 4: Access to the Occupants



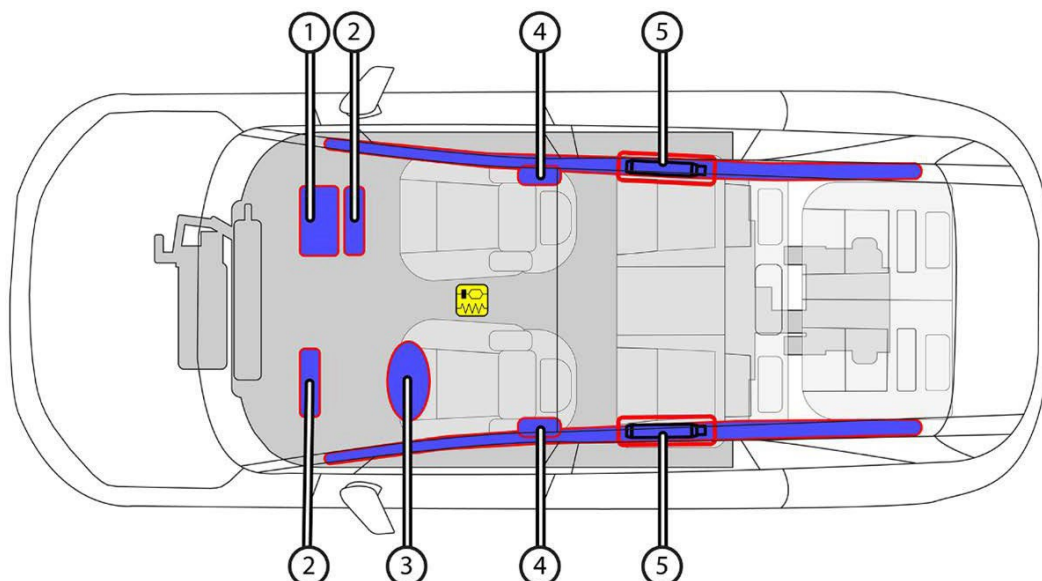
Airbags



WARNING The SRS unit has an internal energy reserve, which enables it to remain powered for up to 10 seconds after low-voltage battery power has been disconnected. The SRS unit will remain powered from the vehicle after it deploys any airbag or pre-tensioner. Do not touch the SRS unit while it is powered.

Airbags are located in the approximate areas shown. Airbag warning information is printed on the sun visors.

Lucid Gravity is designed to deactivate high voltage in all components and cables outside of the high-voltage battery when an airbag is deployed. Care must be taken as to not cut any orange high-voltage cables or try to gain access into the battery pack. Even though the high-voltage system has shut down due to the airbags being deployed, it must always be assumed that there may be high voltage present in the high-voltage cables and components. The battery cells within the battery pack will have stored energy and should not be compromised with rescue tools.



The First Responder Loop and Low-Voltage Battery negative cables (2) should be cut in order to open the low-voltage circuit that provides power to the airbags. See the First Responder Loop section for more details.

1. Passenger front airbag
2. Driver / Passenger knee airbag
3. Driver front airbag
4. Side airbags
5. Curtain airbags



WARNING Never cut or crush inflation cylinders. Cutting or compressing cylinders can cause catastrophic failure and lead to serious injury or death.

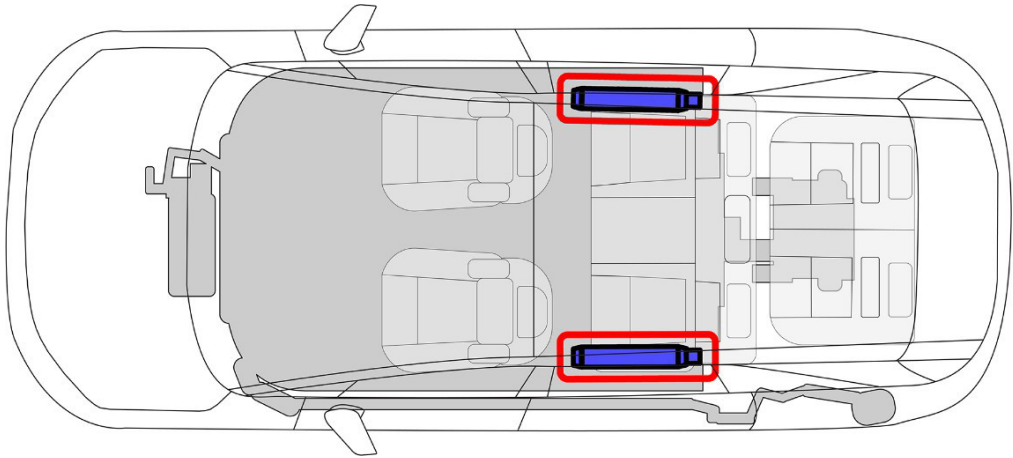


WARNING The SRS control unit has a backup power reserve with a discharge time of approximately ten seconds. Do not touch the SRS control unit within ten seconds of an airbag or pre-tensioner deployment.



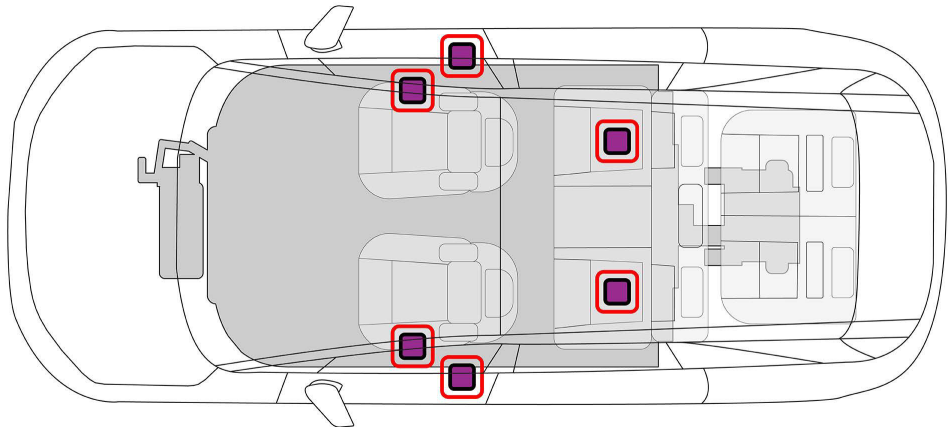
Stored Gas Inflators

The stored gas inflators, outlined in red, are located near the roof approximately mid-way between the B and C pillars.



Seatbelt Pre-Tensioners

The seat belt pre-tensioners (6), outlined in red, are located at the bottom of the B-pillars, the front seat outer base rail, and outboard of the 2nd row seats in the C-pillar.



4. Access to the occupants

Keys

Lucid Gravity supports three types of devices to be used as keys:

- Key Fob
- NFC Card
- Mobile App

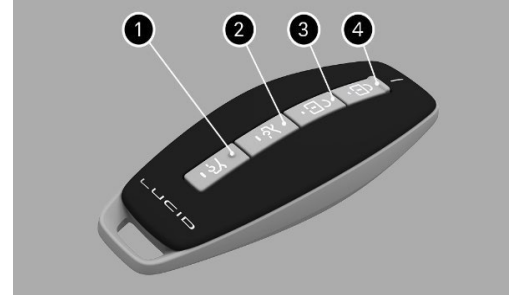
Note: The vehicle's low-voltage system must be functional for the keys to function.

Key Fob

As you approach the vehicle, the key fob should be within range.

The buttons on the key fob indicate:

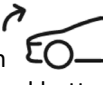
1. Liftgate
2. Hood
3. Unlock
4. Lock



The table specifies the distances (in meters) for the various functions when the key fob is in or out of range.

Distance From perimeter of the vehicle	Function
12-15m <	Key not within button command range
9m <	Key not within localization range
5m	Vehicle wake (passive entry enabled)
3m	Vehicle lock (passive entry enabled)
1m	Vehicle unlock (passive entry enabled)
1m behind trunk	Trunk open authentication zone

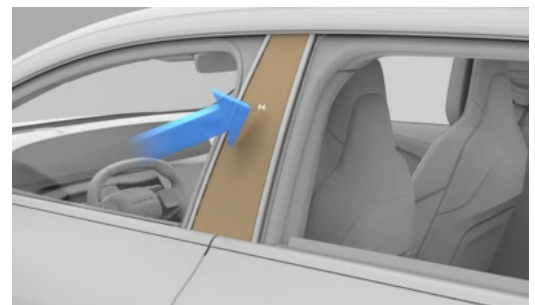
Once within range, the key fob operates as follows:

- Press the Lock button to lock all doors, hood, and tailgate.
- Press the Unlock button once to unlock only the driver door, and press unlock again to unlock all doors, hood, and tailgate.
- Press and hold the Hood button  to open or close the hood. To pause the hood movement while it is opening or closing, press the hood button again.
- Press and hold the Liftgate button  to open or close the liftgate. To pause the tailgate movement while the tailgate is opening or closing, press the liftgate button again.
- Press and hold the Lock button for the panic alarm to trigger. To cancel the panic alarm, press the Lock or Unlock button.

NFC Card

Touch the NFC card to the Left- Hand B-pillar, just above the side camera.

This will unlock the vehicle, and the door handles will present if there is low-voltage power present.



Mobile App

The mobile app is available to the Owner of the vehicle and their authorized users.

The smart phone must be pre- registered with the vehicle to use. From the main screen on the app touch the associated icons to Unlock, Open hood, or Open liftgate as needed.



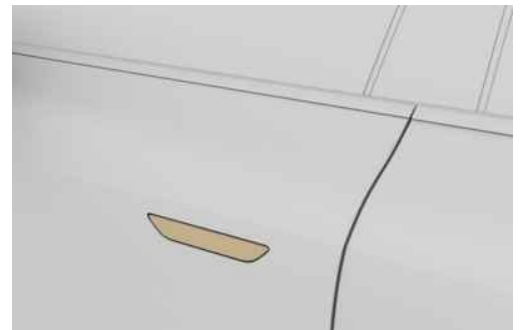
WARNING Electrical and mechanical releases may be compromised after a collision.

NOTE: The seats and steering wheel are electrically powered and may not function after a collision or 12-volt battery disconnection.

NOTE: In the event of a collision, all exterior door handles will present if there is still available power and whether the door units were damaged or not. If the door handles are not operational or rapid extraction is required, it is recommended to break the vehicle windows, (as needed), to allow access to the interior door release handles. In the event of a fire, consider the flow patch of fire when breaking glass. All four doors are equipped with a mechanical release, as part of the interior handle

Opening Doors from the Outside with Low-Voltage Power

To open the Lucid Gravity doors from the outside with low-voltage power enabled, press on the handle. Once a handle extends, pull the handle up to open that door.



Opening Doors from Inside with Low-Voltage Power

To open the Lucid Gravity door from the inside with low-voltage power enabled, pull the switch on an interior handle to open a door. If a door is locked, unlock it by pulling the handle once, then slide it forward and pull a second time to open the door.



NOTE: It is important to know that in any vehicle collision with damage to the driver or passenger front or rear doors, the mechanical door releases may not operate as designed. It is also important to remember that every vehicle accident is different and may require extrication operations to gain access to the vehicle's cabin.

Opening Doors from the Inside without Power

To open the Lucid Gravity door from the inside without low voltage power, pull the switch on an interior handle.

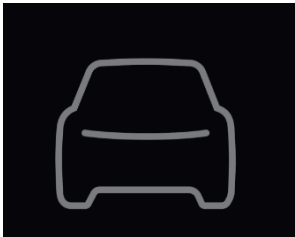
If a door is locked, unlock it by pulling the switch all the way back once. Then, slide forward, and pull a second time to open the door.

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/10/2025	14 of 41



Opening the Liftgate with Low-Voltage Power

Use one of the following methods to open the liftgate. The vehicle **must be in park**.

Touch Screen	  Vehicle Icon Liftgate Open Icon	From the large touch screen at the top of the center console, press the vehicle icon in the lower left corner. Then touch the liftgate open icon.
Key Fob		The Liftgate button is located on the key fob as the fourth button from the top. Press and hold the Liftgate button to open or close the liftgate. To pause its movement while opening or closing, press the button again.
External Button		Press the soft switch located just above the rear license plate. Vehicle must be unlocked.
Mobile App		Using the owner's smartphone with the mobile app, press the liftgate open icon.



Moving the Front Seats with Low-Voltage Power

Lucid Gravity has electrically powered front seats that move with buttons located on the outboard side of the seat base or via the center display under the seats tab.

NOTE: If low-voltage power has been disabled, seat movements will not be possible.

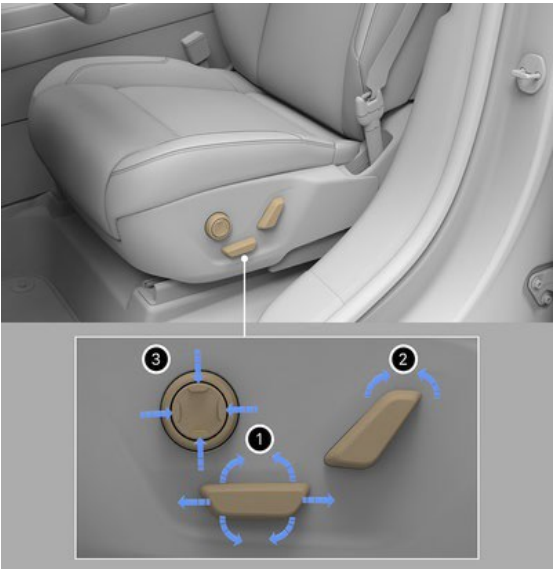
Using the Pilot Panel

To adjust the driver and front passenger seats on the Pilot Panel, select Vehicle Controls > Seats.



Using the Seat-mounted Switches

- 1. Position**
Move the seat forward/backward and adjust the seat’s height/tilt the angle up/down.
- 2. Backrest**
Rotate the switch backward/forward to adjust the angle of the seat back.
- 3. Lumbar**
Press the up/down buttons to raise/lower the lumbar support and the left/right buttons to adjust the firmness of the lumbar support.

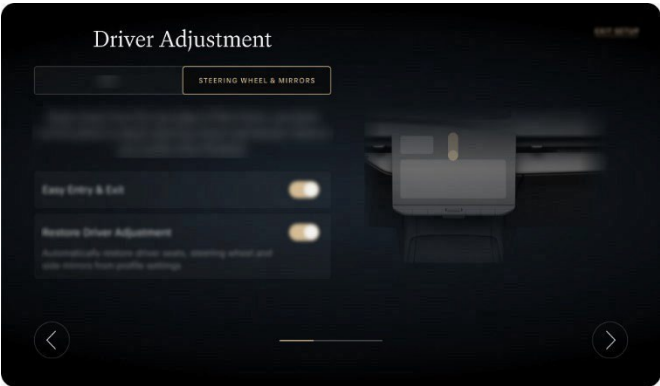


Moving the steering column with Low-Voltage Power

This vehicle features an **electrically powered steering column** that can move **up, down, extend, or retract** for enhanced driver comfort.

Note: If low-voltage power is disabled, steering column adjustments will not be possible.

To adjust the **driver and front passenger seats**, navigate to:
Pilot Panel > Vehicle Controls > Seats





Opening the Hood with Low-Voltage Power

Use one of the following methods to open the hood. **The vehicle must be in park.**

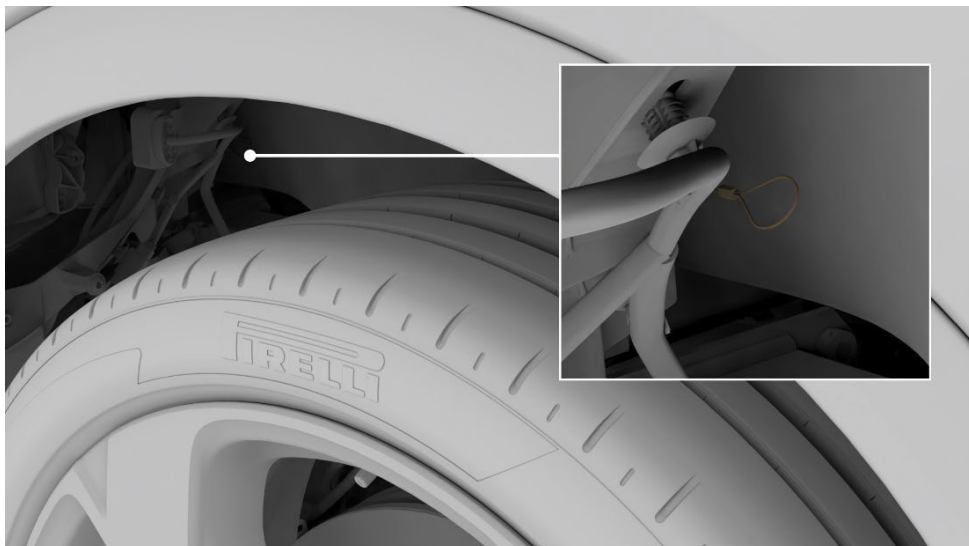
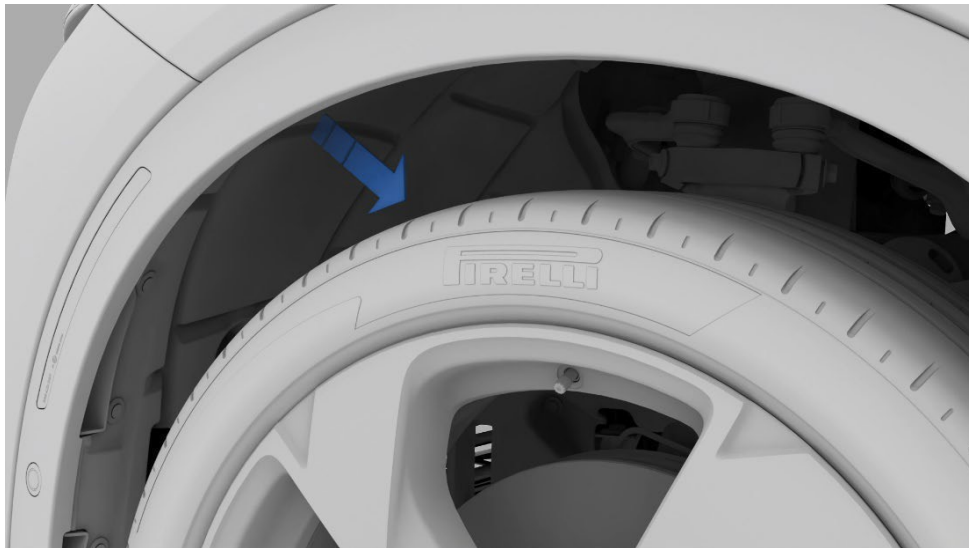
Touch screen		At the large touch screen at the top of the center console, press the vehicle icon in the lower left corner, then touch the “hood open” icon.
Key fob		The Hood button is located as the third button from the top on the key fob. To open or close the hood, stand within 3.3 feet (1 meter) of the vehicle’s front and press and hold the Hood button. To pause the movement while the frunk is opening or closing, press the button again.
Mobile App		Using the owner’s smartphone with the mobile app, press the “liftgate open” icon.



Opening the Hood Without Power

In the event where low-voltage power has been disabled, the hood may be opened via manual release cables.

1. **Remove the front wheel well liner:** Carefully remove the front wheel well liner to access the release mechanism. Release any pop clips or fasteners securing the liner, and pull it back to expose the release cable.
2. **Locate the release cable:** Find the release cable near the front wheel.
3. **Pull the cable twice:** To release the single latch, pull the cable once, then allow it to return to its resting position. Pull the cable a second time to fully release the latch, which has two stages.
4. **Open the hood:** Once the latch has released, you should be able to open the hood. If the latch does not fully release, try pulling the cable again.



Note: Due to the nature of accidents, damage may prevent the hood latches from releasing.

Note: In some instances, it will be easier to cycle the hood release cables with the help of an assistant.

Note: It may be possible to supply external 12-volt power to enable opening the hood via the touch screen. Refer to **Section 8. Towing / Transportation / Storage** for information on connecting external power sources.

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/10/2025	18 of 41

No-Cut Zones

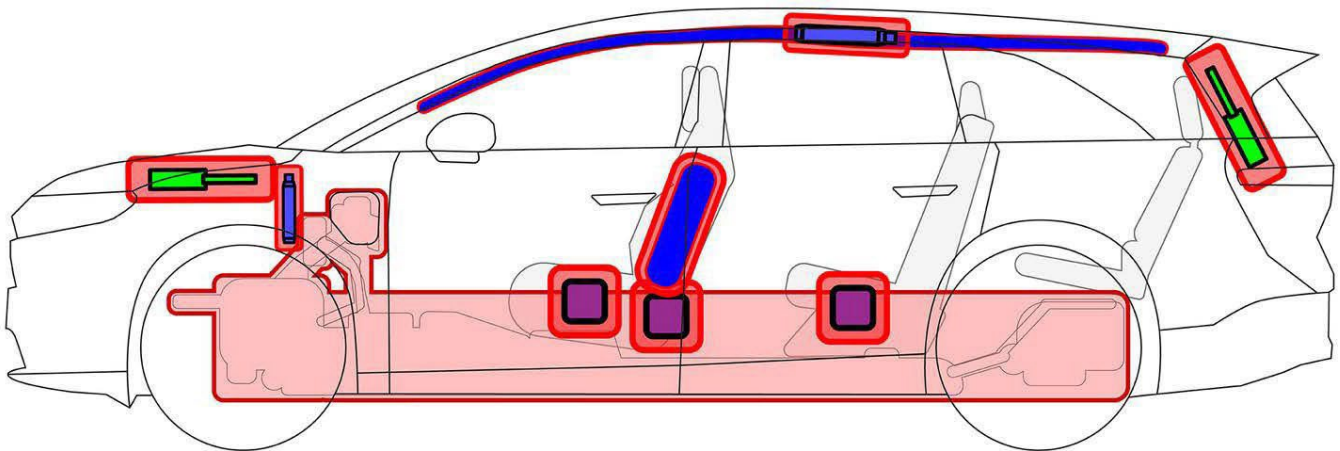
Lucid Gravity has areas that are defined as “no-cut zones” due to the presence of high voltage, gas struts, SRS components, or other hazards. Never cut or crush in these areas. Doing so could result in serious injury or death. The “no-cut zones” are shown in pink.



WARNING Regardless of the disabling procedure you use, always assume that all high-voltage components are energized. Cutting, crushing, or touching high-voltage components can result in serious injury or death.

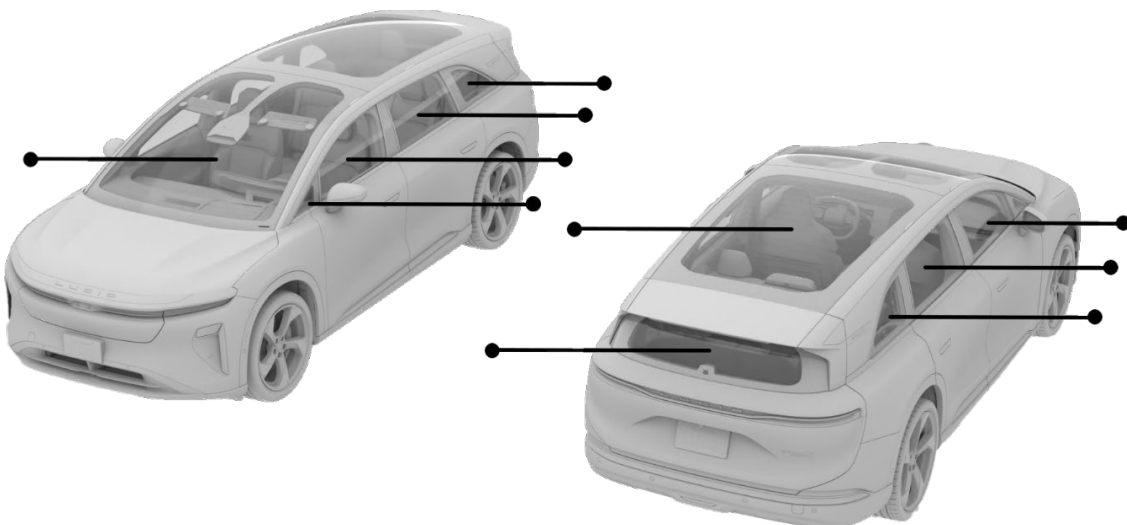


WARNING Always use appropriate tools, such as a hydraulic cutter, and always wear appropriate PPE when cutting the Lucid Gravity. Failure to follow these instructions can result in serious injury or death.

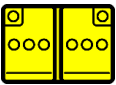


Windows

- Lucid Gravity utilizes tempered safety glass for all exterior windows, except for the front quarter window, which will be laminated.
- Laminated glass is always used on the windshield and front quarter window. Some vehicles may also use laminated glass on the front and/or rear doors, depending on configuration.
- In an emergency, safety laminated glass may require the use of high-pressure punch and glass cutters.



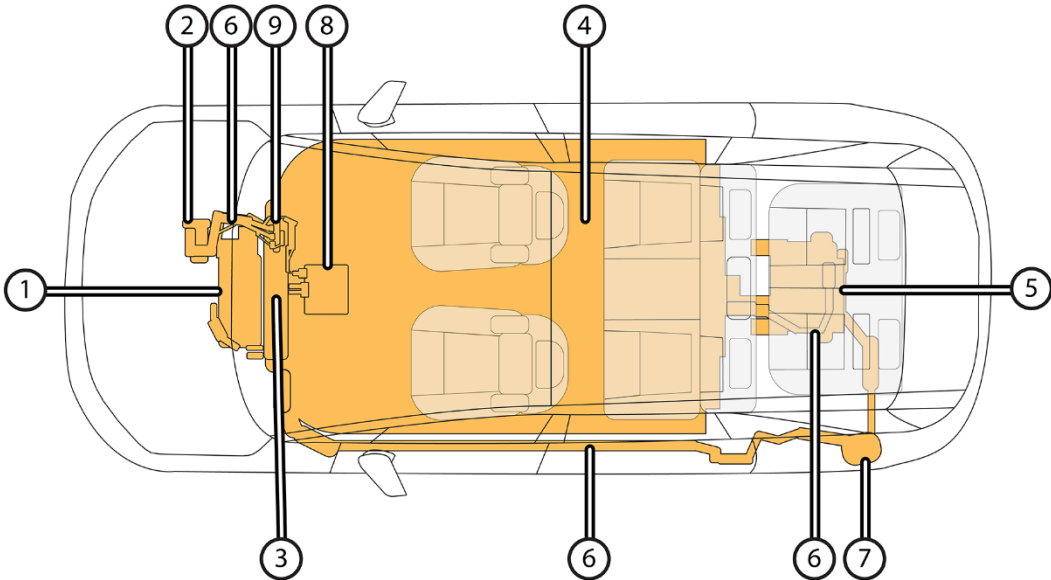
5. Stored energy / liquids / gases / solids

	  	12 Volts Sealed AGM
	     	Li-Ion 900 Volts
	  	R-1234yf 725 grams
-20° Washer Fluid	   	Methanol 30-40wt% ≤1Gal./3.8L
High-Voltage systems Coolant	 	Dex-Cool Glycol based ≤5Gal/19L

Note: The cells in the high-voltage battery pack are sealed and there is a low probability of electrolyte creating a pool of liquid. Clear liquid is likely water. The coolant used is orange in color.



High-Voltage Components

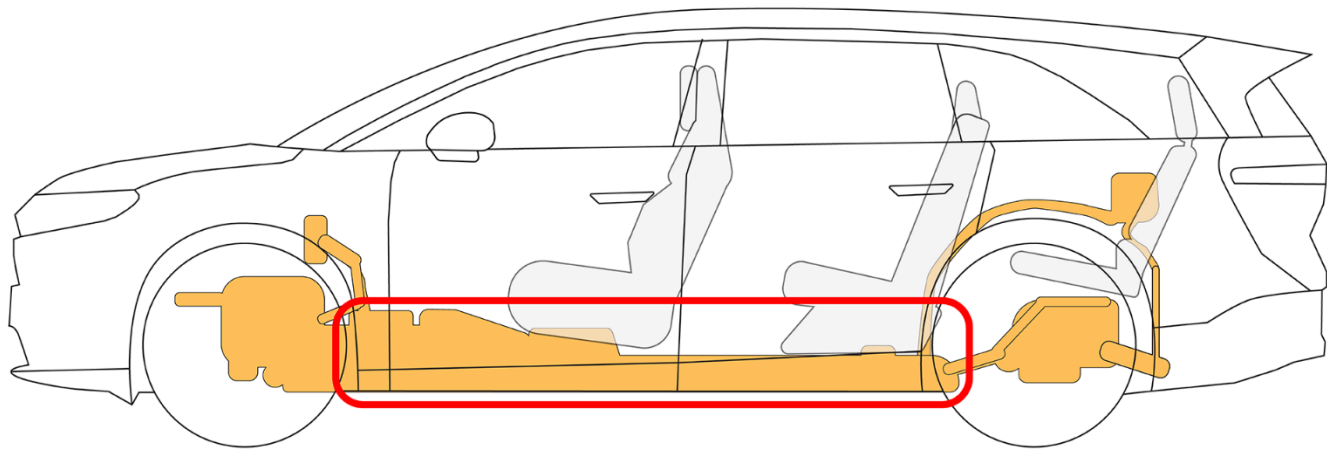


- 1. High Voltage Front Drive Unit
- 2. High Voltage Air Conditioning Compressor
- 3. High Voltage Junction Box
- 4. High Voltage Battery Pack
- 5. High Voltage Rear Drive Unit
- 6. High Voltage Cables
- 7. High Voltage Charging Port
- 8. High Voltage DC to DC converter (located under floor pan)
- 9. High Voltage Coolant Heater (located in passenger compartment)



High Voltage Battery Pack

Lucid Gravity is equipped with an under-floor mounted 900V lithium-ion battery. The battery is made up of many cells that are liquid- cooled with a glycol-based coolant. The coolant will appear orange in color and may leak from the battery pack if the pack is compromised during a vehicle collision. The battery cells will have stored energy within them. Never breach the high-voltage battery when lifting from under the vehicle. When using rescue tools, pay special attention to ensure that you do not breach the floor pan. Refer to **Chapter 2: Lift Areas** for instructions on how to properly lift the vehicle.



Pushing on the Floor Pan

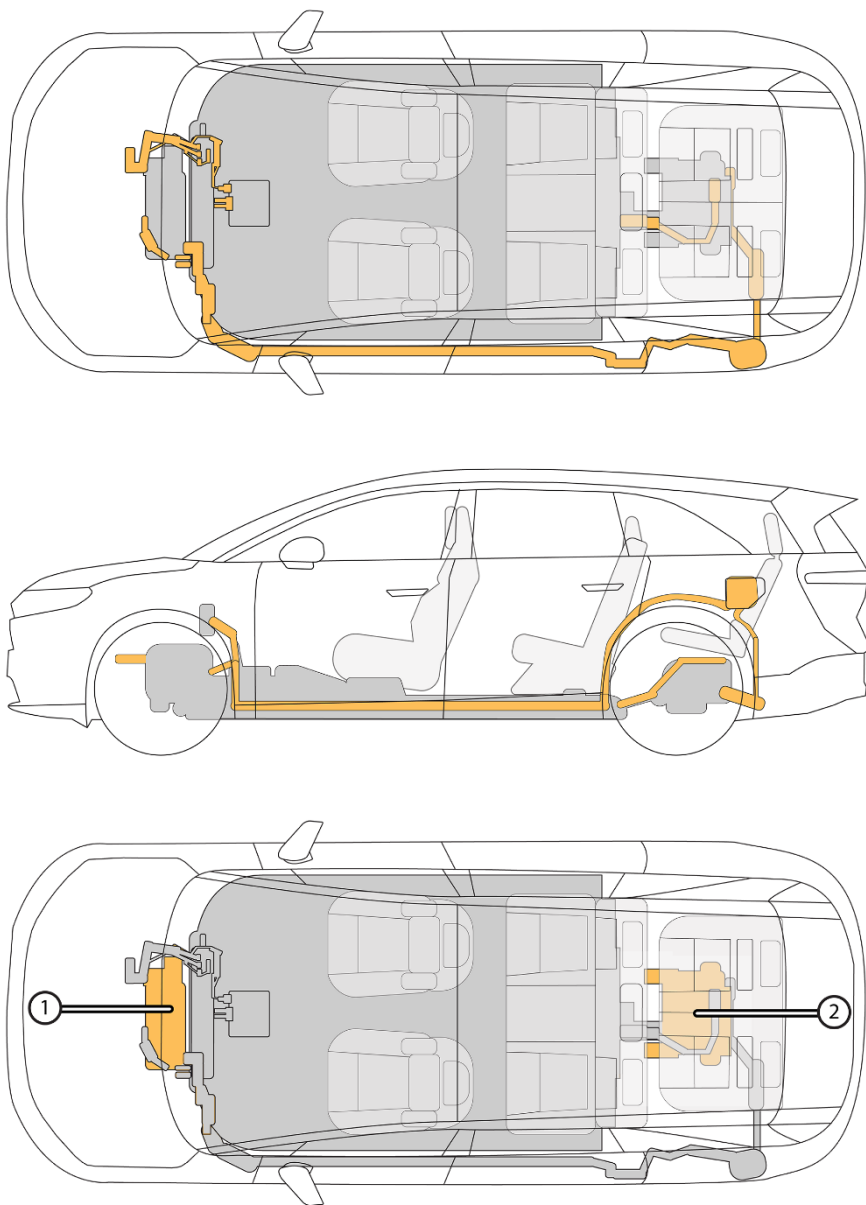
The high-voltage battery is located below the floor pan between the front and rear wheels. Never push or pry on the floor pan of the vehicle. This could lead to a breach of the high-voltage battery or damage the high-voltage cables, which can result in a fire, serious injury, or death. At no time should the high-voltage battery pack be compromised with rescue tools.

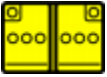


High Voltage Power Cable / Component

High-voltage cables are shown in orange. Do not compromise these high-voltage cables with rescue tools. At no time should any high-voltage cables be compromised with rescue tools. The assumption should always be made that there may be high voltage present in the orange, high-voltage cables.

- 1. Front High-Voltage Drive unit
- 2. Rear High-Voltage Drive unit

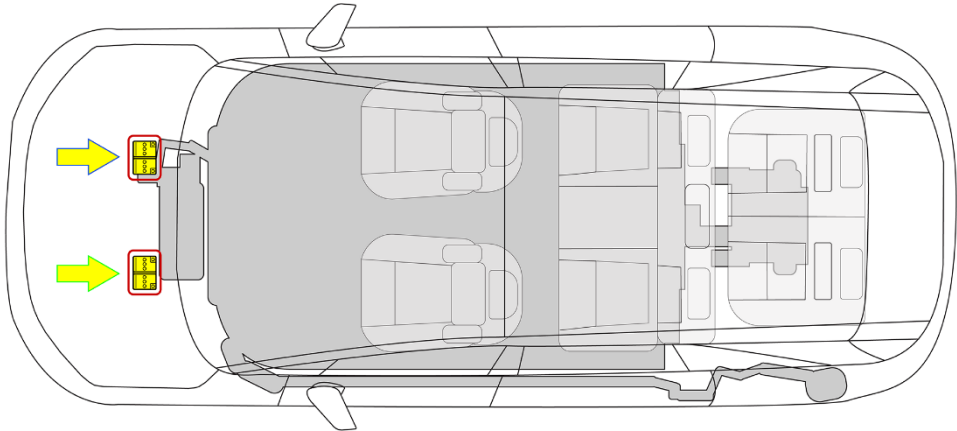




Battery Low-Voltage

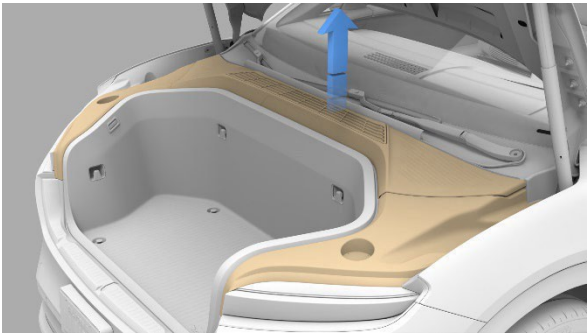
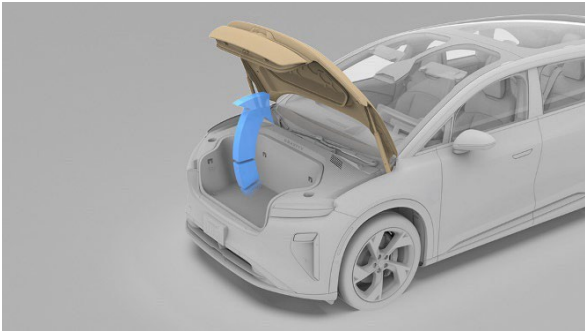
Lucid Gravity is equipped with two low-voltage batteries for redundancy. The low-voltage batteries operate the restraint system, airbags, windows, door locks, touchscreens, and interior and exterior lights. The high-voltage system maintains the low-voltage batteries.

Both 12V batteries are located in the Frunk.



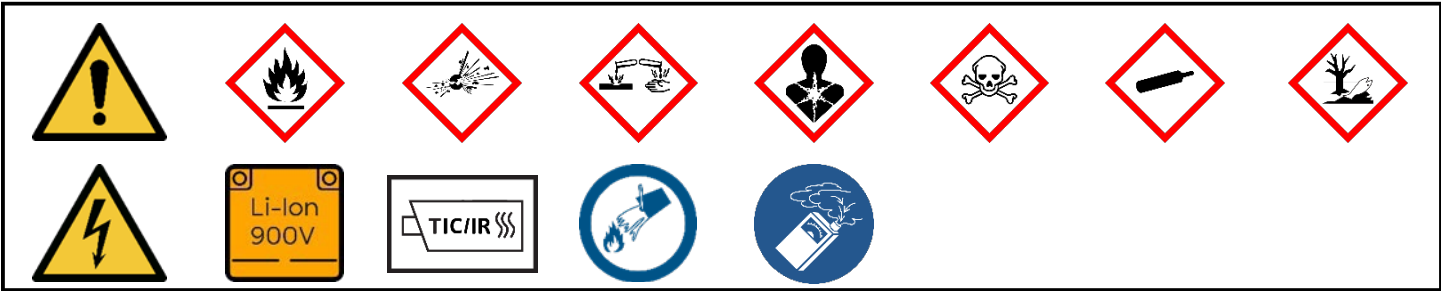
To access the low-voltage batteries:

1. Open the hood.
2. Remove the apron trim. (Center, left, and right trims.)
3. Remove the frunk trim by removing the 4 clips and bolts underneath.



6. In case of fire

Fire Fighting



WARNING Always assume high-voltage (HV) systems to be energized. During firefighting activities, including overhaul, avoid contact with HV components. Cutting of HV components may cause an arc flash, potentially severely injuring a firefighter.

**Use only water to extinguish the battery pack.
Submerging the vehicle is not recommended.**

The below recommendations are from the Energy Security Agency (ESA), leaders in Electric Vehicle (EV) fire safety and destructive testing of lithium-ion batteries.

The views and opinions Below are not those of LUCID MOTORS. Energy Security Agency (ESA) has determined the following after research and/or testing of the referenced vehicle.

Call the ESA for real time guidance anytime at 855-ESA-SAFE



IMPORTANT: Fires involving Lithium-ion batteries and/or HV components may require copious amounts of water to manage. It is the recommendation of the Energy Security Agency to take a defensive firefighting approach and allow the vehicle to burn in a controlled manner and protect exposures, when possible.

See the following sections for interacting with potential fire conditions for the Lucid Gravity.

6-A Scene Size up

1. Necessary Equipment



- a. Don all full structural personal protective equipment (PPE)
- b. Full SCBA
- c. Thermal Imaging Camera (TIC)

- d. 4 gas monitor(s) or atmospheric monitor for CO

2. Establish a HOT ZONE

- a. Must be a 75-foot radius hot zone
- b. It is Recommended to have atmospheric monitoring and thermal imaging present.

3. Determine priorities of the fire

- a. Is life safety at risk? see firefighting guidelines
- b. Is there the ability to let the vehicle burn in a safe controlled manner?



4. Water Supply

- a. ESA DOES NOT recommend the use of FOAM or other agents to extinguish a lithium-ion battery fire in the Lucid Gravity.
- b. If necessary, an ABC extinguisher can be used to mitigate the fire conditions only for a short period of time. ABC and/or foam may be used on non-battery components of the vehicle.
- c. A direct attack (especially if access to inside the pack is not available) has the potential to require large amounts of water.

6-B Hazardous conditions

- 1. Electric Vehicles present unique hazards that are associated with the high-voltage system: these are grouped into chemical, electrical, and thermal.



- 2. Assume the high-voltage (HV) system to be energized during all interactions.

- a. The HV electrical system is powered with 900 volts of DC power, NEVER make contact with the HV battery or HV components (see diagrams above) as it can result in Electrical Shock or Arc. HV systems could remain charged for up to 10 minutes after being powered down or disabled. High voltage stranded energy is always present in the high-voltage battery.



- 3. Assume smoke conditions to be flammable, explosive, and toxic.

- a. Natural or mechanical ventilation may be necessary to manage gas levels.



4. Off Gassing

- a. When the battery is off gassing, the battery will produce a toxic gas cloud, white in nature, that can be differentiated from smoke by the utilization of a 4-gas monitor(s).
- b. These gasses can accumulate inside of the vehicle at levels above the Lower Explosive Limit (LEL), especially if the vehicle is still relatively airtight and the glass and doors have not been opened or compromised.

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/10/2025	25 of 41

- c. Extreme caution should be taken prior to any ventilation attempts or opening of doors or windows on the vehicle, as the introduction of fresh air may bring the atmospheric conditions back into the explosive range and result in an explosion if fire or other ignition sources are present.
- d. During the inception and growth phases the off gas can contain detectable levels of Hydrogen Fluoride (HF), hydrogen chloride (HCl), hydrogen cyanide (HCN) and other hydrocarbons and volatile organic compounds (VOCs) that will pose an inhalation hazard. Full firefighter personal protective equipment and SCBA shall be utilized until gas levels are confirmed to be at a safe level. An increase in CO readings will indicate the presence of off gassing and thermal runaway (before and during active burning) of the lithium-ion battery cells. During active burning the 4-gas monitor may show Hydrogen Sulfide (H₂S) and Hydrogen Cyanide (HCN) from cross sensitivity of the Li-ion battery and vehicle synthetics producing Hydrogen (H).
- e. Once ignited, the fire burns up the volatile organic compounds (Hydrogen Fluoride and others) and produces Carbon Monoxide (CO) and Hydrogen (H).



5. Individual Battery Cells

- a. During extreme collisions or when overheated individual cells can potentially explode, catch fire, and be separated from the packs and batteries can possibly scattered over the incident scene.
- b. If these cells become projectiles, structural PPE will protect firefighters from these cells.
- c. For handling of individual loose batteries contact ESA OR call 1-855-ESA-SAFE.



6. Electrolyte Leak

- a. Under normal operating conditions, a cell will not leak or vent. However, cell leakage or venting could occur if the cell is overheated or is mechanically, electrically or physically abused/damaged.
- b. The electrolyte contained within the lithium cells can cause severe irritation to the respiratory tract, eyes and skin.
- c. Violent cell venting could result in a room full of either corrosive or flammable vapors. All proper precautions should be taken to limit exposure to the electrolyte vapor.

Should electrolyte leak from a cell, the following actions should be taken:

- Evacuate and isolate all areas which may be potentially affected by the gas.
- If in a confined area or indoors; Ventilation should be initiated and continued until after the cell is removed from the area and the pungent odor is no longer detectable.

*** If the cell vented as a result of excessive heating, it must be allowed to cool to ambient temperature before handling.

- Have Fire Extinguishment nearby (Hose line, water can)
- Put on All PPE, Remove the cell to a well-ventilated area.
- Cover fluid on ground with Dry earth, DRY sand or other non-combustible material.
- Place small amounts of batteries and DRY non-combustible materials into ventilated plastic buckets.
- Batteries may be placed in water or DRY non combustible material; water will result in discharging cells that may produce thermal events. Dry non combustible material will not discharge cells but will isolate thermal events. Make sure there is 1 part battery to 3 parts DRY NON-COMBUSTIBLE material/Water in buckets
- Move battery to Dry well ventilated area.
- Dispose in accordance with applicable local, state and federal regulations.
- Contact the ESA for additional handling and transportation guidelines of damaged battery components.



7. Coolant

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/10/2025	26 of 41

- a. High voltage system components are liquid-cooled with a typical glycol-based automotive coolant. If damaged, this orange coolant can leak out of the high-voltage battery.



8. Water runoff

- a. Just as in a combustible engine car fire, assume runoff from firefighting operations may have the potential to be contaminated. Consider utilizing dikes, dams, PIGS, and other measures to limit runoff



9. Thermal dangers

- a. Heat and flames can compromise airbag inflators, stored gas inflation cylinders, gas struts, and other components which can result in unexpected excessive heat, which can cause inflation cylinder explosion.
- b. Lithium Ion fires produce significantly higher levels of heat compared to standard vehicle fires. Direct flame exposure can result in serious injury or death and structural turnout gear may not provide adequate protection to prolonged exposure. Special precautions should be taken by emergency personnel to avoid direct flame exposures.

6-C Firefighting operations

1. Defensive fire

- a. If life safety and exposure protection can be maintained, it is the recommendation of ESA to take a defensive firefighting approach and allow the vehicle to burn. Exposures and atmospheric conditions should be protected and managed throughout the event.
- b. Chemicals released during a fire or explosion will be in a gaseous form and primarily pose an inhalation hazard. If water is used in extinguishing the flames these gasses can become acids which may cause skin irritation. See section 4 of Hazardous Conditions

2. Transitional Attack

- a. If it is necessary to extinguish the fire for life safety or potential exposures the only effective suppression must have a direct flow of water into the battery compartment and any involved HV components. ABC extinguishers and/or foam may be used on non-battery components.
- b. When attacking the fire, use a combination nozzle to provide maximum versatility for flow patterns to address the fire condition and source.
- c. After the initial knock down fire departments must flow water into the vent points or openings created by the fire within the battery pack. Use a ¼ open bail or comparable amounts of water to fill vent points. Remember in Lucid Gravity, manufactured vent point will not be accessible. Use openings created by the fire/accident. Do not puncture the battery.
- d. Some circumstances may call for technician level lifting techniques to expose vent points.
- e. Water should be applied inside the battery pack for enough time to properly cool the thermal event and stop thermal runaway. Water should be used to cool the battery until the battery shows a thermal reading of below 200 degrees Fahrenheit. Once this temperature has been reached, an atmospheric monitor should be used to difference the difference between steam and smoke. CO should present itself at or below 50 ppm and declining before cooling is stopped.
- f. After cooling efforts are deemed to be adequate, it should be assumed that the pack may reignite or go back into thermal runaway. Vehicle movement is a major mechanism of reignition. Battery should be checked for CO and temperature after any movement.

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/10/2025	27 of 41

- g. When using a thermal imaging camera to detect heat buildup on the exterior of the pack consider that battery cells in thermal runaway may take time to heat the exterior of the pack and reveal a heat signature
- h. The amount of time that it takes for a heat signature to appear on a Lucid battery pack may be extended due to a protective, composite plate between the battery cells and the exterior enclosure.
- i. NEVER attempt to create vent holes in the battery pack.

3. Fire in an enclosed structure

- a. Assume smoke conditions to be flammable, explosive, and toxic.
 - i. If off-gassing is present assume that fire conditions can start at any minute. See Section 4 of Hazardous Conditions
- b. Extinguish initial fire conditions by application of water or another agent available
- c. Try to remove the vehicle from the garage or enclosed space using wench, come-along, or another mechanical device. Attachment should be made to a component isolated from high-voltage components.
- d. See above directions for firefighting techniques once the vehicle is removed from structure.

6-D After firefighting suppression is complete

1. Monitoring



- a. Battery must be monitored with a TIC for a minimum of 45 minutes after the last application on water
- b. Battery must remain below 200 degrees Fahrenheit to safely be released for transport
- c. Batteries between 200-300 degrees Fahrenheit have potential to re-ignite.
- d. If the battery is showing trends of increasing temperature, a heat signature of over 200 degrees is detected OR “hot spots” are seen through a thermal imaging camera, reengage in cooling operations

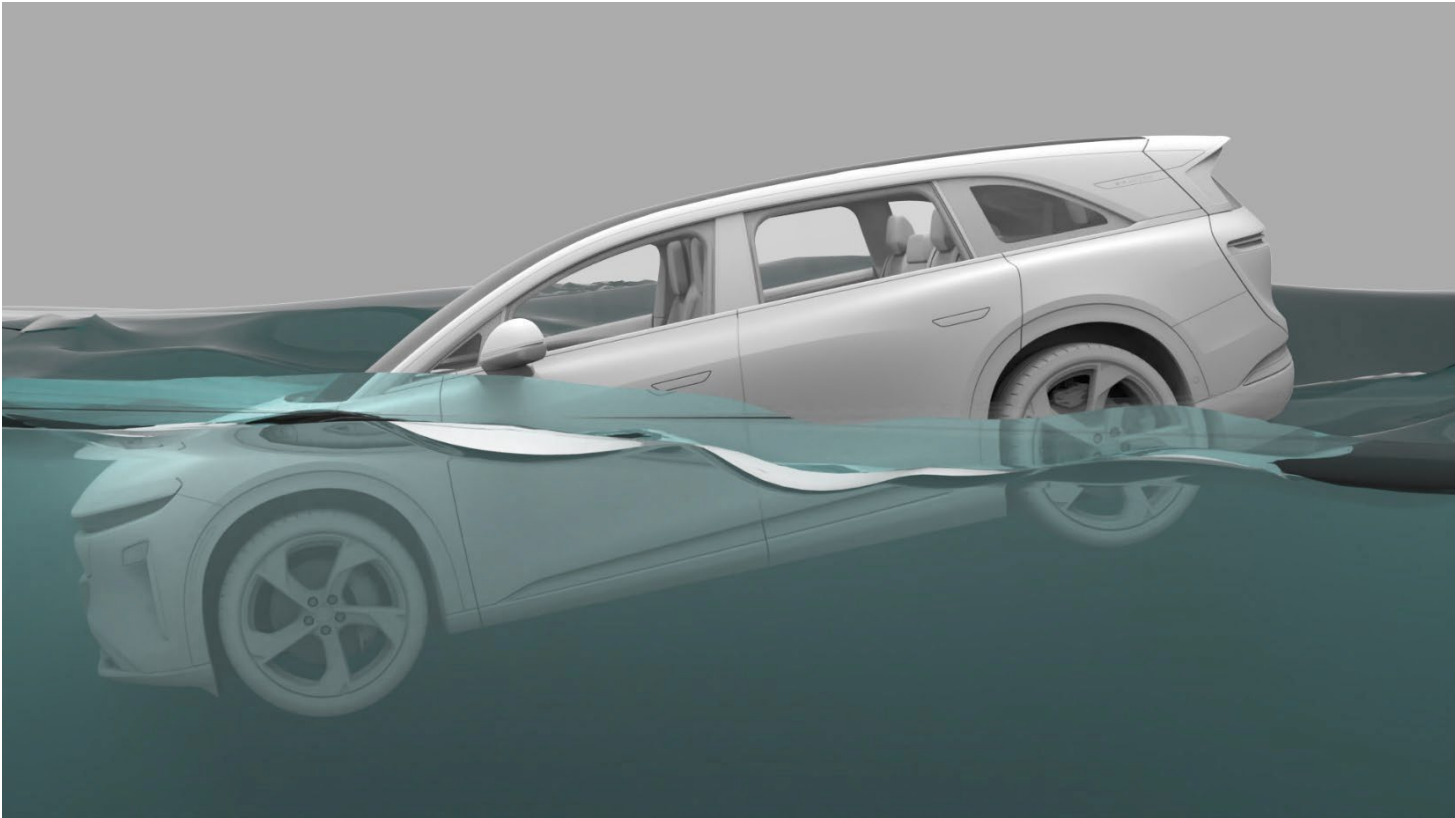
2. Transferring to tow operators

- a. The risk of battery re-ignition remains present for hours or even days after the incident. Even if fire was present and extinguished by the methods listed above there is still a potential for re-ignition.
- b. Prior to the Authority Having Jurisdiction (AHJ) transferring responsibility of the vehicle, they must make the tow operator aware of the need to have a risk assessment done on the vehicle by calling the Energy Security Agency (ESA) at 1-855-ESA-SAFE.
- c. A Lucid Gravity that has been involved in any fire event or when deemed necessary by the ESA should be stored 50’ away from all exposures. Barrier isolation can also be used to protect exposures
- e. Like all electric vehicles, movement of a Lucid Gravity after a fire event or collision that has compromised the high- voltage battery may result in a fire event. Limit the movement of the vehicle after a collision or fire. Vehicle movement is a major mechanism of reignition. Battery should be checked for CO and temperature after any movement.
- d. If the vehicle has been exposed to large amounts of water or the pack has been flooded, one side of the vehicle should be elevated to allow water to drain from the high-voltage battery pack.
- e. The AHJ must also insist that an ESA Risk Analysis Placard (RAP) sticker be placed on the vehicle after the assessment to determine proper storage conditions and safety concerns.

For real time support for firefighting/rescue operations involving the Lucid Gravity call 1-855-ESA-SAFE and a rescue specialist will be available 24/7 to answer any questions

	Document	Version	Date	Page
	50E-ANA25ERG	01	4/10/2025	28 of 41

7. In case of submersion



Treat a submerged Lucid Gravity like any other submerged vehicle. The body of a Lucid Gravity does not present a greater risk of shock while it is in water. However, wear appropriate PPE when handling any submerged vehicle. Remove the vehicle from the water and continue with normal high voltage disabling.

Vehicles that have been submerged in water should be handled with greater caution due to the potential risk of a high-voltage electrical battery fire. First responders should be prepared to respond to a potential fire risk. Raise one end of the vehicle to allow water to drain out of the vehicle and the high-voltage battery pack. If the vehicle’s structural integrity has been compromised, elevate the undamaged end of the vehicle to allow for proper drainage. After the vehicle is removed from the water, continue normal disabling procedures, as outlined in **Chapter 3**.

Submerged vehicles are highly susceptible to internal short circuiting, resulting in thermal runaway. This may occur immediately upon removal or may be significantly delayed. Submerged vehicles should be staged in a safe area upon removal and monitored for thermal and physical indications of thermal event for 45 minutes prior to transport.

Vehicles that have been submerged or exposed to large amounts of water should receive a risk analysis assessment. **Contact ESA 1-855-ESA-SAFE (1-855-372-7233) for details.**

Vehicle Towing and Recovery Methods

Lucid recommends these vehicle recovery methods:

1. High-Speed Dolly

High-speed dolly systems support the vehicle's rear wheels, while a tow vehicle supports the front wheels. **This is Lucid's preferred recovery option.**

Always follow recovery equipment's manufacturer instructions for use.



2. Self-Loading Recovery Dolly

Self-loading dolly systems allow winching a vehicle onto a flatbed carrier or rollback tow truck. They incorporate an attachment point for the winch cable directly to the dollies. Use this method when wheels are locked (e.g., due to power loss). Self-loading dollies support all wheels during winching to reduce the risk of vehicle damage.

Always follow recovery equipment's manufacturer instructions for use.

Make sure to secure the vehicle onto the bed as per the dolly's manufacturer instructions, with the vehicle remaining on the dollies.

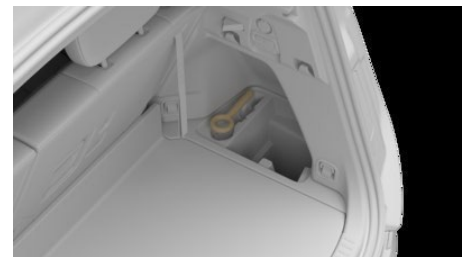
See detailed instructions under the **Securing the Vehicle for Transport** section.



3. Tow Eye

The tow eye can only be used at the front and rear of the vehicle but has load limitations (19.54kN/ 1992kg/ 4392lbs) with vertical and horizontal angular limitations for the operation of the winch cable relative to the towing eye attachment location.

Before use, carefully review the instructions under Tow Eye Method section and consider these limits before using the tow eye.



Transporting the Vehicle



WARNING If the high-voltage battery pack has been damaged, punctured, or compromised, further flexing or structural twisting of the vehicle could lead to thermal runaway, fire, or re-ignition of the high-voltage battery pack. If you know or suspect that the high-voltage battery pack has been severely damaged, do not move the vehicle unless it is necessary for safety reasons to do so, and contact Lucid Customer Care.

NOTE: All four wheels must remain off the ground when towing or transporting the vehicle.



DO NOT TOW THE VEHICLE WITH ANY OF ITS WHEELS ON THE GROUND.



WARNING Towing the vehicle with the wheels on the ground may cause serious damage to the vehicle.



WARNING A key cycle will re-energize the high-voltage powertrain. Before performing a key cycle, inspect the vehicle and confirm that there is no high-voltage damage following a crash event.

Preparing the Vehicle for Transportation



WARNING The high-voltage battery pack can ignite or re-ignite after an incident if the structure of the battery has damaged as a result of an accident. Store the vehicle a minimum of 50 ft / 15 m from other vehicles, structures, and flammable materials for a minimum of 24 hours, and monitor vehicle temperatures with a thermal imaging camera.



WARNING The vehicle is equipped with high-voltage components that may be compromised as a result of a collision. It is important to assume these components are energized. Always follow high-voltage safety precautions until emergency response professionals have evaluated the vehicle and can confirm that all high-voltage systems have been disabled. Failure to do so may result in serious injury or death.



WARNING Lack of engine sounds does not mean the vehicle is off. Silent movement or instant restart capabilities exist until the vehicle is fully shut down. Wear appropriate PPE.

Note: The vehicle automatically engages the electronic parking brake when the driver's door opens. If vehicle electrical systems are not functioning and/or the electronic parking brake cannot be disengaged, use a combination of jack/dollies or tire skates under rear wheels to prevent vehicle damage.

Activate Flatbed Transport Mode Using the Pilot Panel

To activate Flatbed Transport Mode using the pilot panel:

- 1. Press and hold the brake pedal.
- 2. Ensure the gear is in Neutral (N) or Park (P).
- 3. On the pilot panel, navigate to: Settings > Vehicle.
- 4. Toggle Flatbed Transport to On.

While in Flatbed Transport Mode, the vehicle will operate only in **Neutral (N)** or **Park (P)**. If the vehicle has already been secured on the flatbed and Flatbed Transport Mode was not activated beforehand, it can also be enabled remotely via the **mobile app** — as long as the vehicle is in **Park (P)**.

Note: Once Flatbed Transport Mode is enabled, the vehicle will automatically shift to Neutral (N).

Note: Always ensure the flatbed truck is properly positioned before enabling Flatbed Transport Mode, as the vehicle may begin to move.

Note: After activation, the vehicle may roll if left in Neutral. Secure the vehicle properly to prevent unintended movement.



WARNING Do not activate Flatbed Transport Mode until the flatbed truck is fully positioned. Activating the mode too early may allow unintended vehicle movement.



WARNING Keep the brake pedal pressed to prevent vehicle movement while this mode is active. The vehicle may roll if the brake is not applied during setup.

Disabling Flatbed Transport Mode Using the Pilot Panel

To disable Flatbed Transport Mode using the pilot panel:

- 1. Ensure the vehicle is in **Park (P)** or that the **brake pedal is pressed and held**.
- 2. On the pilot panel, navigate to **Settings > Vehicle**.
- 3. Select **Flatbed Transport Mode**, then follow the on-screen prompts to disable the mode.
- 4. Once confirmed, Flatbed Transport Mode will turn off. The vehicle will return to normal operating behavior, including ride height adjustment and Drive Mode availability.

Note: Ensure the vehicle is properly secured before disabling Flatbed Transport Mode, especially if it is parked on a slope or still on the flatbed, as gear transitions may allow for vehicle movement.

Pushing the Vehicle

In situations where there is minimal risk of fire or high-voltage exposure (for example, the vehicle does not accelerate after stopping at an intersection) and 12V power is present, the Lucid Gravity can be pushed to clear the roadway. If a driver is present, shift the Lucid Gravity into Neutral (N), and push the vehicle. If a driver is not present, the Lucid Gravity may shift into Park (P) when it detects the driver leaving the vehicle, even if it has previously been shifted into N.

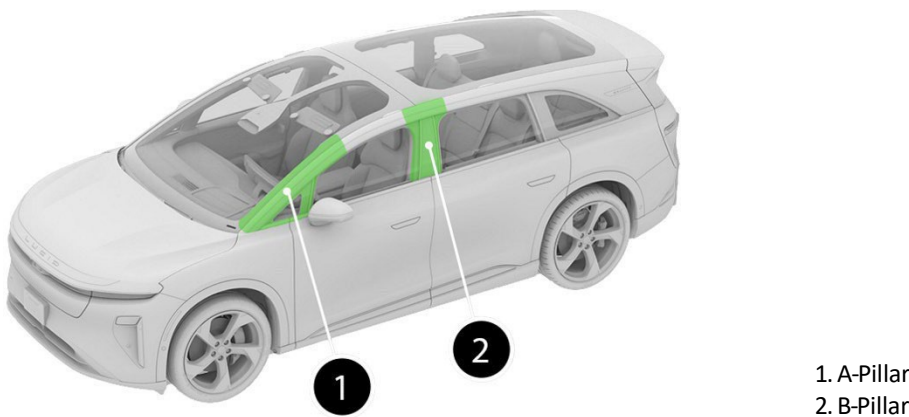
Lucid recommends using only the A and B pillars when pushing by hand, with the windows in the down position.

Note: Body damage will likely occur if the pushing recommendation is not followed. Lucid will not warranty nor be held liable for issues that may result from failure to follow these instructions.

Note: Lucid Gravity must detect a key in the vehicle, and low-voltage power is required to shift the vehicle into Neutral (N).

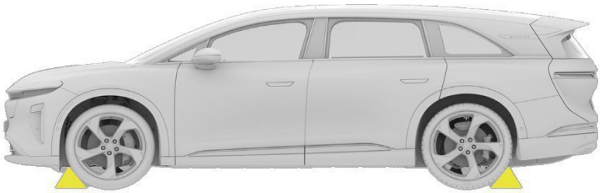
Note: The touchscreen is unresponsive if the Lucid Gravity has no low-voltage power. Chock the wheels. Then, use an external, low-voltage power source to supply power and shift into Neutral (N). **Once in N, the external power source must be disconnected before moving the vehicle.** When using this method, the vehicle will be free rolling until the external power is reconnected and the vehicle is shifted into the Park (P) position.

See detailed instructions under the **Connecting External 12-Volt Power** section.

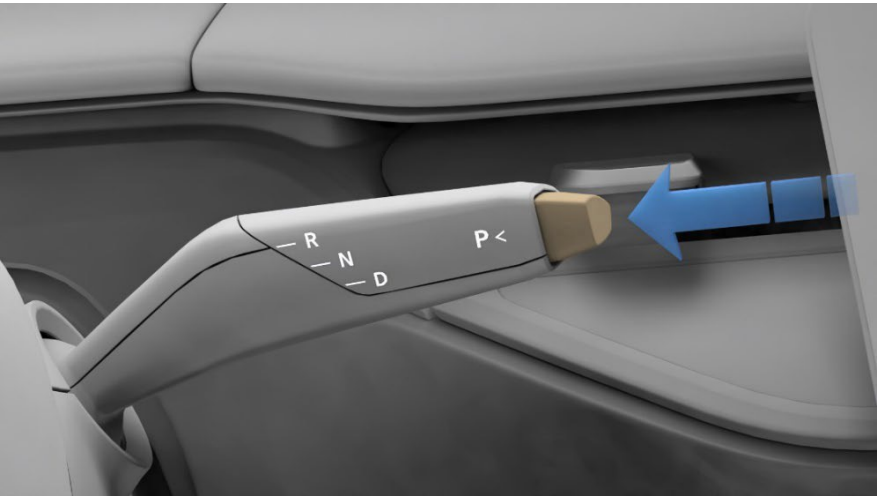


Immobilize the Vehicle

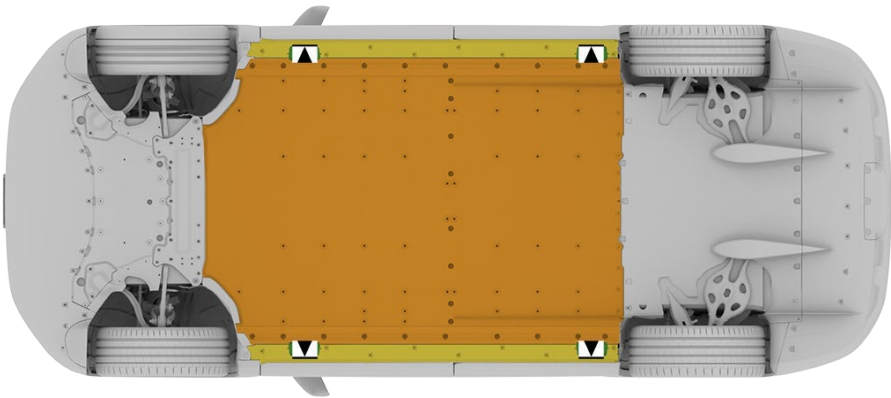
- 1. Before starting any recovery operation, immobilize the vehicle by installing wheel chocks to prevent roll-away.



- 2. Apply the Electronic Parking Brake (EPB) by pressing the button on the end of the right-hand mode selector stalk.



- 3. If lifting is required, ensure the vehicle has been immobilized in the previous steps.
- 4. When lifting the vehicle, use the provided jack points. **Do not lift the vehicle under the battery pack location**, illustrated by the orange shaded area in the adjacent image.



Approved lifting points



High-voltage battery pack

Tow Eye Method



WARNING Use the tow eye only for loading and unloading the vehicle to/from tow trucks or transports. Under no circumstances should the vehicle be towed by another vehicle along the road using the vehicle tow eye. Doing so can lead to sudden tow eye detachment, which may lead to vehicle damage, injury, or death.



WARNING The tow eye should not be used in situations where the winch cable load will exceed 19.54kN/ 1992kg/ 4392lbs. Exceeding these limits may cause failure of the tow eye, which may lead to damage, serious injury, or death.

The vehicle includes a tow eye stored in the cargo area, behind the right-hand side access panel.

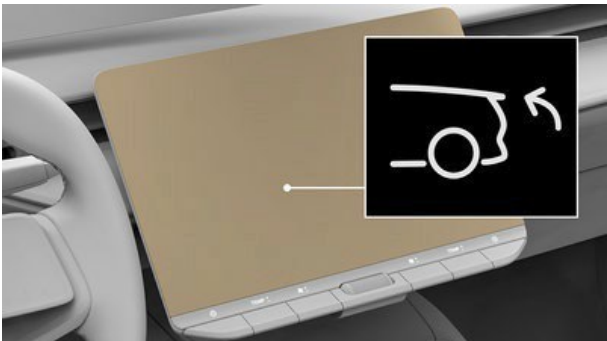


Opening the Liftgate

Note: If the vehicle’s low-voltage power has been disabled, it is necessary to connect an external 12-volt power source to access the tow eye before proceeding. See the instructions under the section titled **Connecting External 12-Volt Power**.

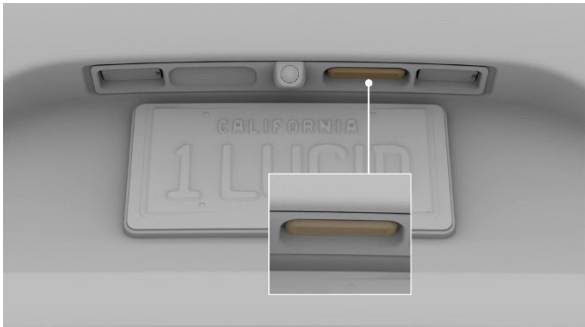
Option 1:

From the large center touchscreen, touch the ‘Openings’ icon at the top. Then touch the Liftgate Open icon on the lower right of the touchscreen.

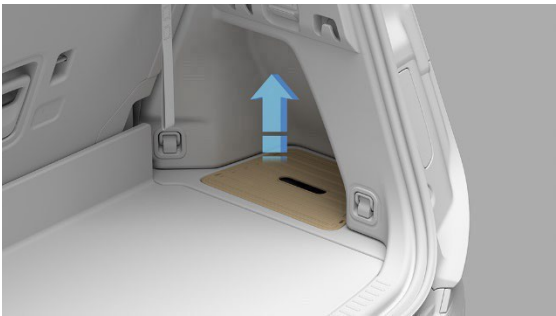


Option 2:

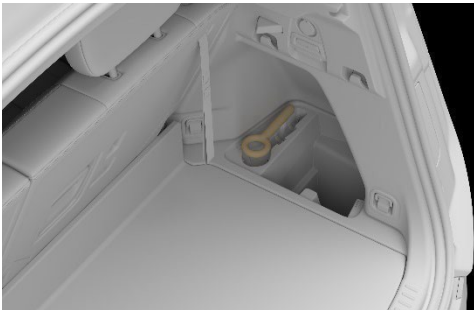
- 1. Push the liftgate release button located above the rear license plate area.



2. Open the liftgate and remove the tow eye from under the right-side liftgate floor panel.



3. If an external power source was used to access the liftgate, remove the power source, and secure the wiring before moving the vehicle to avoid damage.



Installing the Tow Eye

Note: These instructions apply to both the front and rear tow eyes.

Remove the Tow Eye Cover

- 1. Release the tow eye cover by pressing firmly on the top center until it pivots inward.
- 2. Gently pull the raised section toward you. The Tow Eye Cover will remain in place.
- 3. Remove the tow eye cover completely before proceeding to the next steps.



WARNING Improper tow eye installation could result in the tow eye detaching suddenly during vehicle winching. This may cause significant vehicle damage and could result in injury or death to anyone nearby.

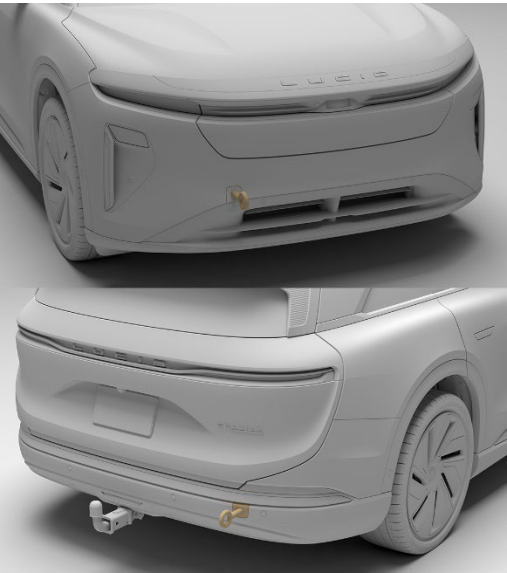
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Install the Tow Eye

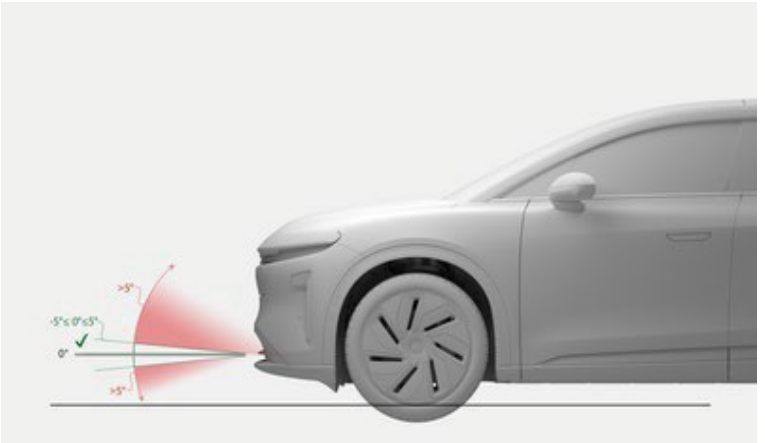
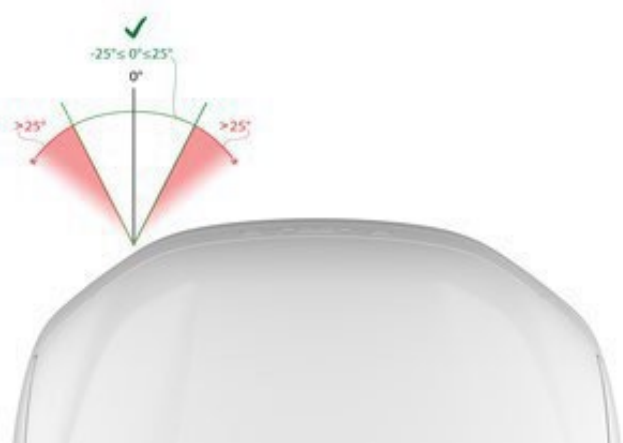
- 4. Locate the attachment point on the front or rear of the vehicle.



- 5. Insert the tow eye through the bumper and rotate it clockwise into the attachment point on the body until it is fully seated. Ensure the tow eye is parallel to the ground.



- 6. Attach the winch cable to the tow eye. **The pull angles must not exceed 5 degrees from center either up or down and must not exceed 25 degrees from center either left or right.** See the illustrations and warnings below.





WARNING Do not use the vehicle tow eye if the pull angle is greater than 5 degrees vertically from eye-center either up or down. Exceeding these limits may cause tow eye detachment that could result in injury or death.



WARNING Do not use the vehicle tow eye if the pull angle is greater than 25 degrees horizontally from eye-center to either side. Exceeding these limits may cause tow eye detachment that could result in injury or death.

- Place the vehicle in Neutral (N) by pressing and holding halfway down on the mode selector stalk while simultaneously holding the brake pedal. The vehicle must always be placed in Neutral with all brakes disengaged. Wheels must be able to move freely. **Do not winch the vehicle while the parking brake or the brake pedal is applied. Never drag the vehicle along the ground, as this may exceed the maximum towing line force.** If wheels cannot roll freely, use a combination of jack dollies or tire skates.
- Winch the vehicle slowly onto the trailer or transporter, avoiding shock loading. **Ensure the winch cable line load does not exceed 19.54kN/ 1992kg/ 4392lbs.**



WARNING Do not allow anyone to stand or walk behind the vehicle during winching operations. In the event of winch/cable or tow eye failure, vehicle may roll backwards unexpectedly. This could cause serious injury or death.

- Once the vehicle is loaded, immobilize it by placing the vehicle in Park (P).
- After using the tow eye, store it back in the liftgate and reinstall the rubber cover on the attachment point. Proceed with securing the vehicle for transport.

Securing the Vehicle for Transport

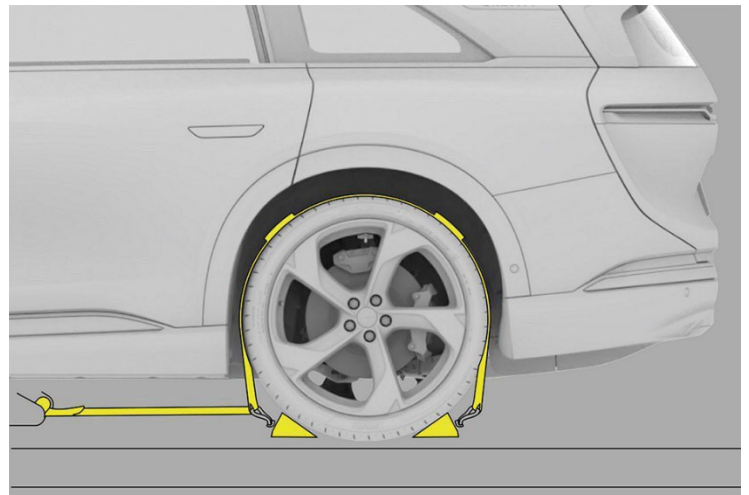


WARNING Attaching straps to the chassis, suspension, or other parts of the body may damage the vehicle.

When the vehicle is in position on the transporter or trailer, use chocks and tie-down straps to secure the wheels.

To avoid damage:

- Ensure that the metal parts on the tie-down straps do not come in contact with the vehicle's painted surfaces or the face of any wheels.
- Do not place straps over or through the vehicle's body panels.



Continued on next page

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/2/2025	38 of 41

Connecting External 12-Volt Power



WARNING Do not connect a battery charger to the jumper wires. This will exceed the maximum allowable electrical ratings of 12-14.4 Volts 50 Amps. Damage to the ECUs will result. Do not use 12-volt jumper leads for charging the 12-volt batteries. They are only intended for opening a car when the low-voltage system is depleted.

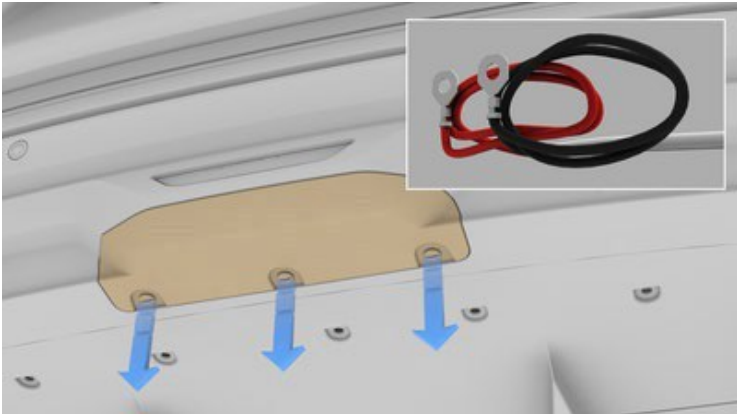


WARNING While external power source is connected, ensure positive (+ red) and negative (- black) leads do not come in contact with each other. This could cause sparks or damage the external power source. Refer to the external power source manufacturer’s instructions for use.

Note: Use a 12-volt jumper pack or equivalent. Do not use “Boost” or “Starting” modes as these may exceed the electrical specifications of the vehicle jumper connection (12-14.4 Volts 50 Amps Max).

Note: Lucid will not warranty nor be held liable for issues that may result from failure to follow these instructions.

1. Locate the jumpstart panel under the vehicle, near the towing connector at the back. Use a Flathead screwdriver or similar tool to remove any clips or fasteners securing the panel, then pull down the panel to expose the connectors.



2. Carefully remove the panel covering the jumpstart connectors. Connect the red (positive) lead to the external power source first, then connect the black (negative) lead.



3. Remove external power source and re-secure wires before moving vehicle. **Failure to disconnect an external 12V system prior to continuing tow activities can lead to serious vehicle damage.**

For Additional Information:

Towing providers with questions should call 888-99-LUCID (888-995-8243).

LUCID	Document	Version	Date	Page
	50E-ANA25ERG	01	4/2/2025	39 of 41

9. Important additional information

This document contains important instructions and warnings that must be followed when handling Lucid Gravity in an emergency situation.



WARNING Always use the appropriate rescue tools and always wear the appropriate PPE. Failure to follow these instructions may result in serious injury or death.



WARNING Regardless of the disabling procedure used, always assume that all high-voltage components are energized. Cutting, crushing, or touching high-voltage components may result in serious injury or death.



WARNING After disabling the high-voltage system, circuits require 2 minutes to de-energize.



WARNING The SRS control unit has a backup power supply with a discharge time of approximately 10 seconds. Do not touch the SRS unit within 10 seconds of an airbag or pre-tensioner deployment.



WARNING Handling a submerged vehicle without the appropriate PPE for water rescue may result in serious injury or death.



WARNING When fire is involved, consider the entire vehicle as energized. Always wear full PPE including SCBA.



WARNING When cutting the first responder loop, always double cut the loop and remove an entire section. This minimizes the risk of the cut wires accidentally reconnecting.



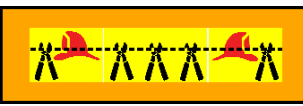
WARNING When using the high-voltage shut disabling methods recommended by this document, high-voltage power should be isolated to the high-voltage battery pack. The high-voltage battery pack is always energized.



WARNING Never transport the Lucid Gravity with the wheels on the ground. Doing so can lead to significant damage and overheating. In rare cases, extreme overheating may cause the surrounding components to combust.

For real time support for firefighting/rescue operations involving the Lucid Gravity call 1-855-ESA-SAFE and a rescue specialist will be available 24/7 to answer any questions.

10. Explanation of pictograms used

	Electric Vehicle		Use thermal infrared camera
	High-Voltage Battery Pack		Lifting point; central support
	Procedure for Disabling High- Voltage		Use water to extinguish the fire
	General warning sign		Gas Detector
	Warning, Electricity		Hood Opening
	Warning, Low Temperature		Liftgate Opening
	Explosive		Gases Under Pressure
	Flammable		Environmental Hazard
	Corrosives		Cable Cut
	Hazardous to Human Health		Seat adjustment, longitudinal
	Acute Toxicity		Seat height adjustment
	Steering wheel, tilt control		Air Conditioning Component
	Compressed Air Tank		