



Emergency Response Guide

Battista model year 2022 and onwards.

INFORMATION FOR FIRST AND SECOND RESPONDERS

For any questions regarding this First Responders Guide or Battista High Voltage Safety, please write to us at : Aftersales@Automobili-Pininfarina.com

INTRODUCTION

This guide provides instructions that need to be followed when rescuing the occupants from the vehicle in an emergency, it also describes how to handle the damaged vehicle.

This guide is intended only for use by trained and certified rescuers and first responders. It assumes that readers have a comprehensive understanding of how safety systems work and have completed the appropriate training and certification required to safely handle rescue situations.

Therefore, this guide provides only the specific information required to understand and safely handle the Automobili Pininfarina Battista. It describes how to identify the Vehicle and provides the locations and descriptions of its high voltage components.

This guide includes the high voltage disabling procedure and any safety considerations specific to the Automobili Pininfarina Battista. Failure to follow recommended practices or procedures can result in serious injury or death

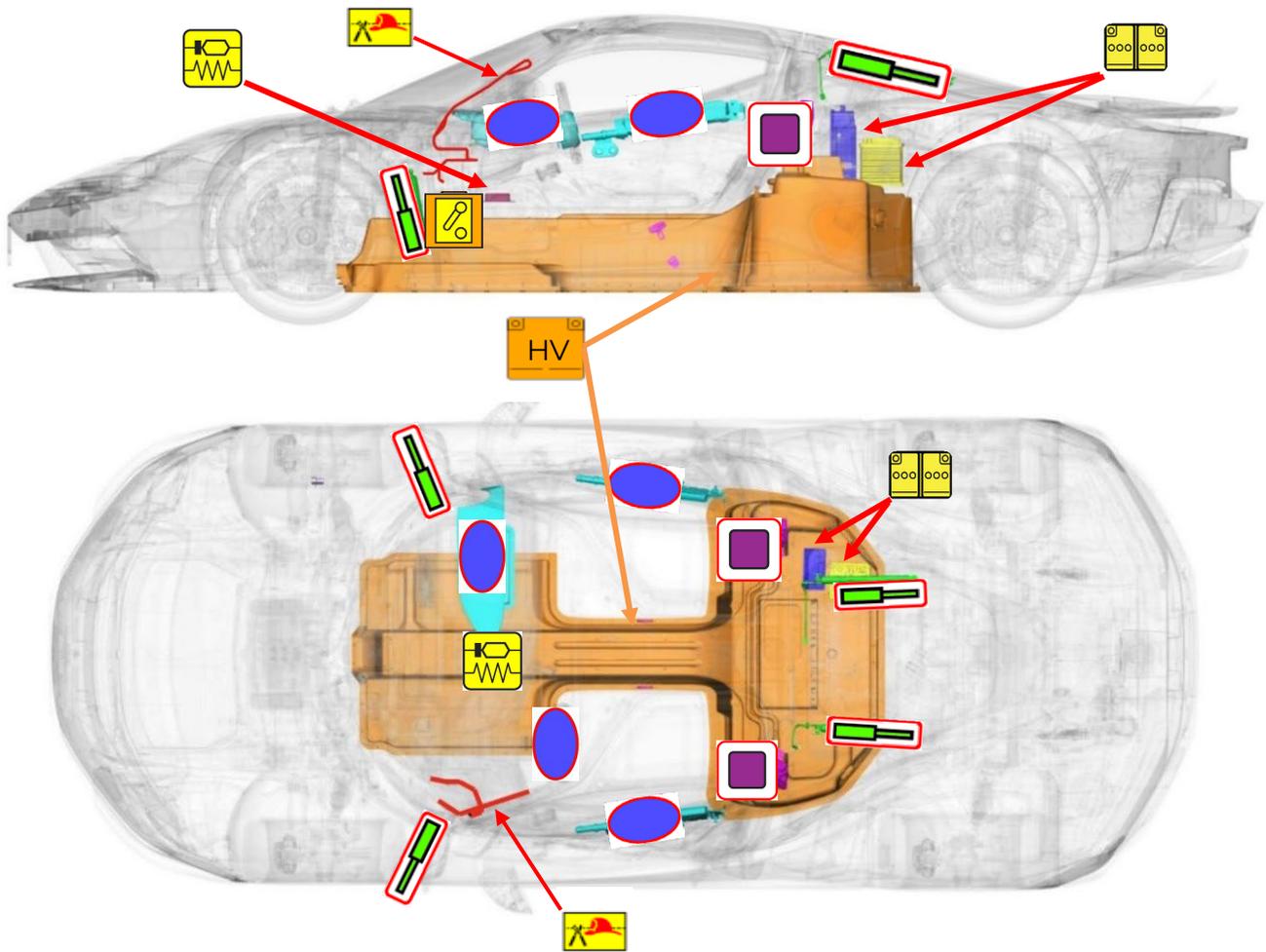
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0. RESCUE SHEET



	12V battery
	48V battery
	Emergency safety cut loop
	Stored gas inflator
	SRS control unit
	Seat belt pre-tensioner
	Battery pack, High voltage
	Airbags
	High Voltage Disconnect Switch – Left A pillar

1. IDENTIFICATION AND RECOGNITION

Automobili Pininfarina Battista is 100% electric.



2. IMMOBILISATION / STABILIZATION / LIFTING



- With the vehicle at stand still, apply the brake pedal.
- Rotate the center console mounted knob to the P (Park) position.
- Push the center screen portion of the switch  to shut down the vehicle's propulsion systems.
- Audible noise from the rear should be heard, this is the electric parking brake being applied.

LIFTING THE VEHICLE



WARNING: Never raise the car when the charge cable is connected, even if charging is not in progress.

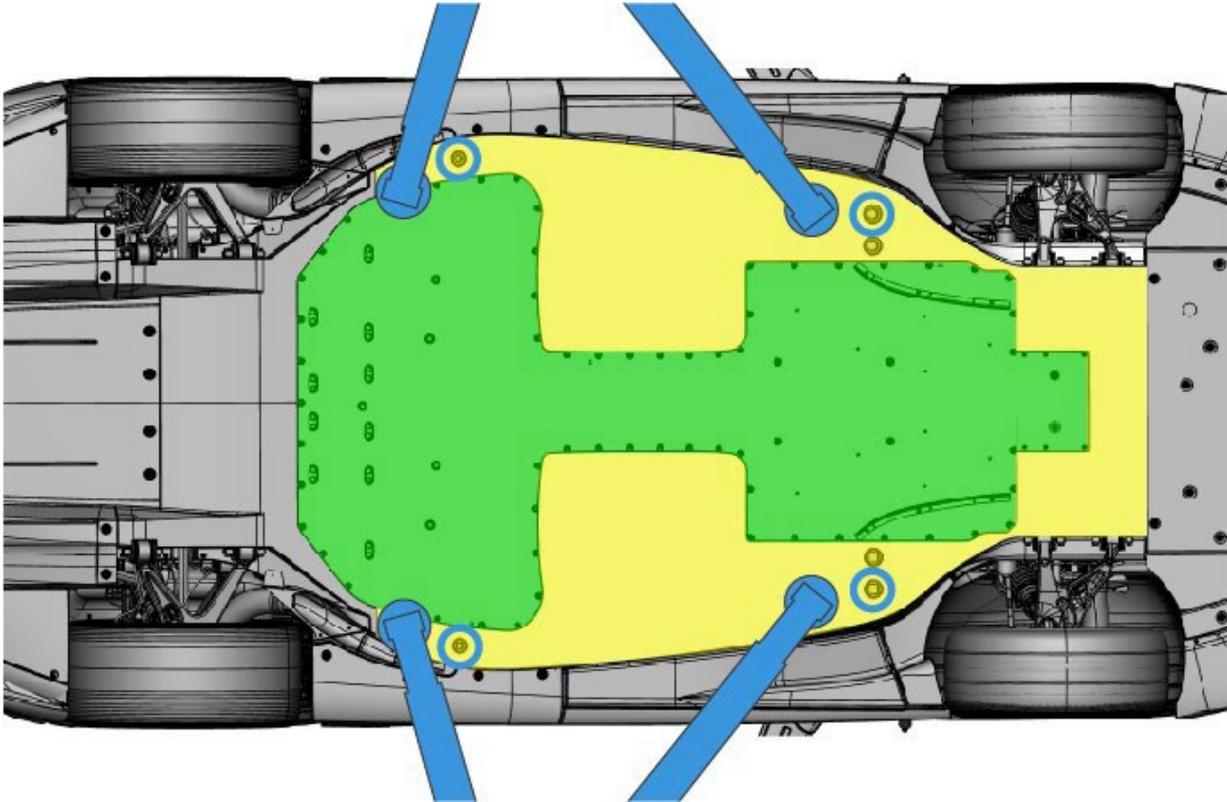


CAUTION: Be careful to position the lift arms correctly at the lifting points, in order to prevent damage to the chassis and the bodywork components.

Referencing the image shown, please lift the car in the highlighted yellow area as displayed, nothing the circled locations as lifting points.



CAUTION: DO NOT lift the vehicle by using the GREEN colored HV battery. If in doubt, please contact an Automobili Pininfarina Service Partner for further details.



 **WARNING:** Do not work on an incorrectly supported vehicle. Doing so can cause serious damage, bodily injury, or death.

 **WARNING:** Lifting the vehicle could cause injury if the vehicle slips off the jacks and rolls over you or someone else.

 **WARNING:** Getting under a vehicle when it is lifted is dangerous, it could slip and fall leading to serious injury. Never get under a vehicle when it is supported only by a floor jack.

3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS



WARNING: Lithium-Ion batteries can present a serious FIRE HAZARD if damaged, defective, or improperly used.

Battista is equipped with 3 lithium-ion batteries which are used to power the vehicle. The main traction high voltage (HV) battery and 2 smaller 12V and 48V batteries.

The HV battery is used to power all HV electronics, such as the drive motors, coolant heaters, air conditioner compressors.

The 12V battery is used to start the vehicle and provides necessary energy to power all low voltage electronics- for example lights, infotainment system, windows, seats.

The 48V battery is used to power some of the ancillary systems of the vehicle such as cooling fans and cooling pumps. This battery is controlled over the CAN bus and is turned off by the vehicle systems in case of an issue.

PYROTECHNIC HV (High-Voltage) FUSE

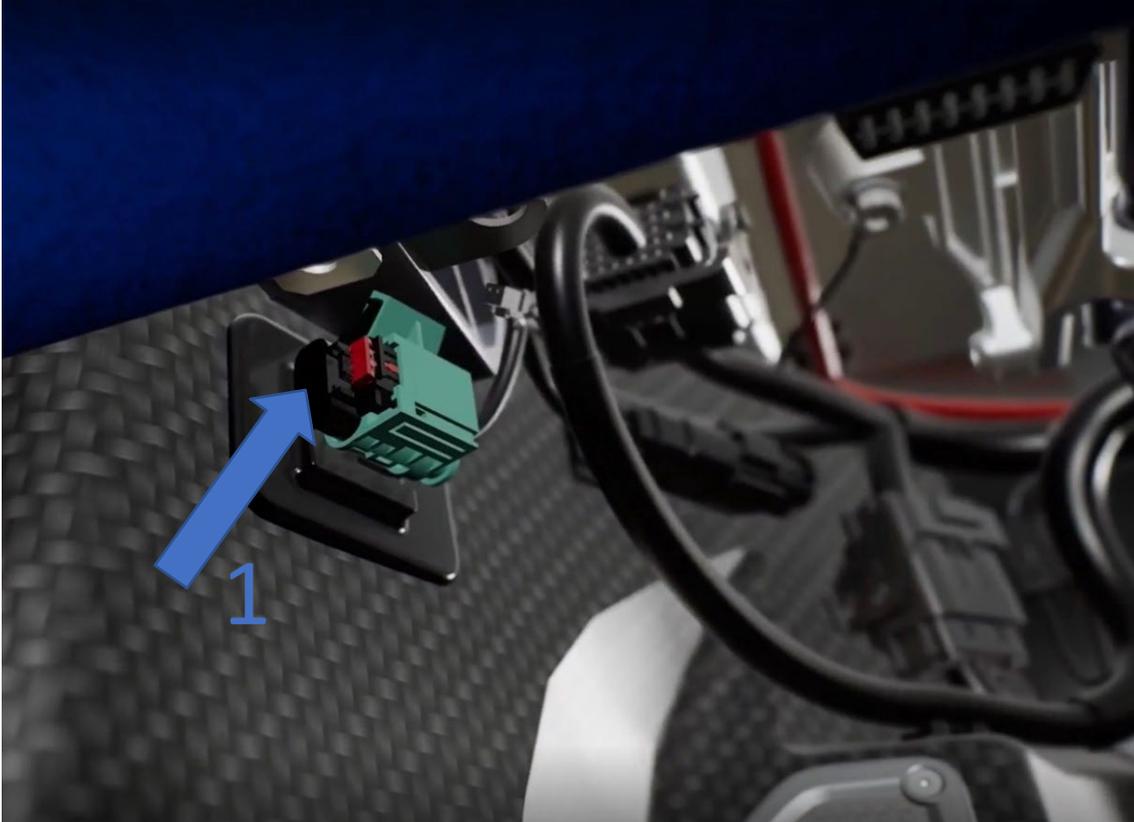
Within the HV battery is a special pyro-fuse that can disable the high voltage system in some emergency situations by means of opening the HV circuit.

Triggered fuse disables the high voltage around the vehicle and allows for a safer condition for the occupants' egress as well as the first responders intervention.

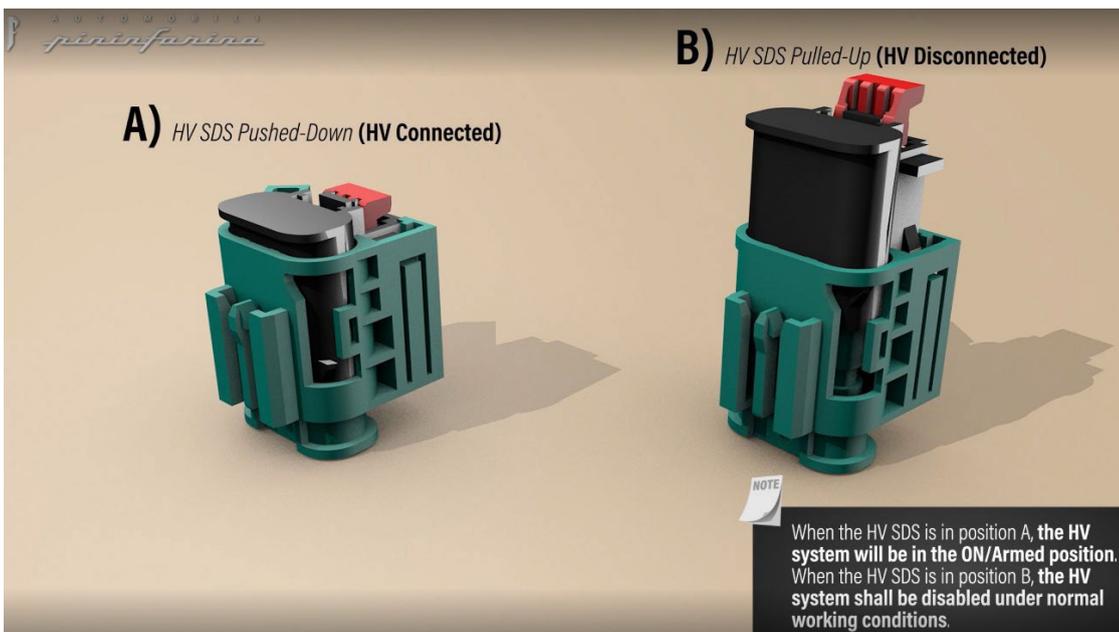
This fuse will be triggered in an event of airbag or seatbelt pretensioner firing.

HIGH VOLTAGE SERVICE DISCONNECT SWITCH (HV SDS)

This switch (1) is located on the DRIVERS LOWER A PILLAR under the dashboard. Its purpose is to disable the High Voltage to safeguard the vehicle in the event of an accident or for in-service use.



- A) HV SDS Pushed Down (High Voltage Connected)
- B) HV SDS Pulled Up (High Voltage Disconnected)



NOTE: Pull out the red security tab from the connector and then slide the inner black portion out of the connector housing.



CAUTION: DO NOT remove the inner portion completely from the housing, doing so, can break the SDS.



WARNING: To ensure that there is no remaining voltage in the high voltage system wait approx. 15 minutes after switching it off.

12V BATTERY DISCONNECT PROCEDURE



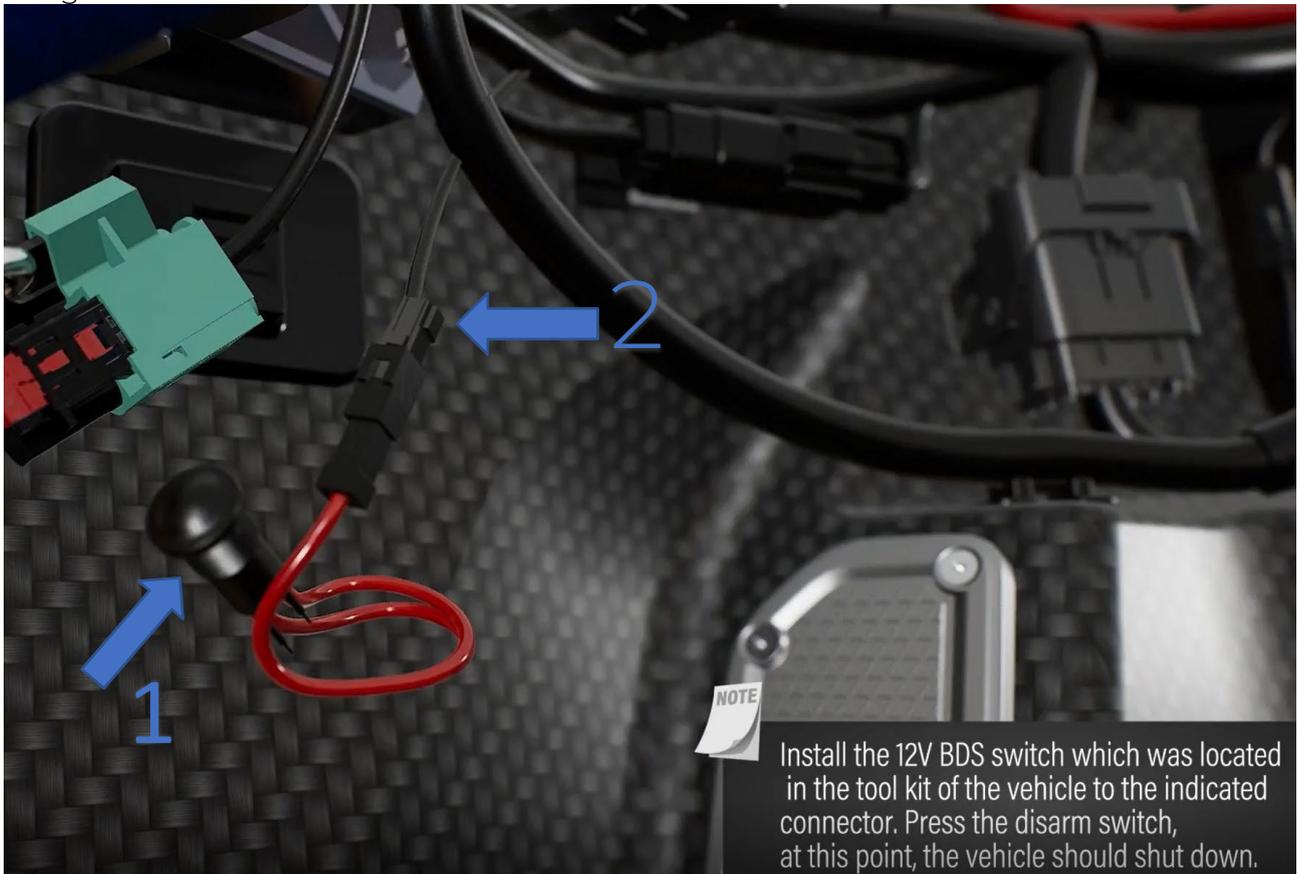
WARNING: The high voltage system must be disabled first via the means of the HV SDS before turning off the 12V system.

NOTE: Depending on vehicle build date, the 12V battery disconnect switch (BDS) may be permanently installed under the dash or will be disconnected as shown below- for which the button must be retrieved from the trunk tool kit.

12V Battery Disconnect Switch Disconnected

Locate the 12V disconnect switch (1) located in the toolkit, which should be placed within the trunk compartment – see VEHICLE TOOL KIT section in Chapter 9 of this document.

Locate the 12V disconnect harness connector (2) under the driver's lower portion of the dash. This connector will allow for the disconnect switch to be plugged in as shown in the image below.



By pressing this button, the vehicle will shut off its 12V power as well as its 48V power. As a visual indicator, the vehicles screen and lights should no longer be powered on.

NOTE: 48V battery will be disabled automatically in the event of the 12V power supply being shut down.

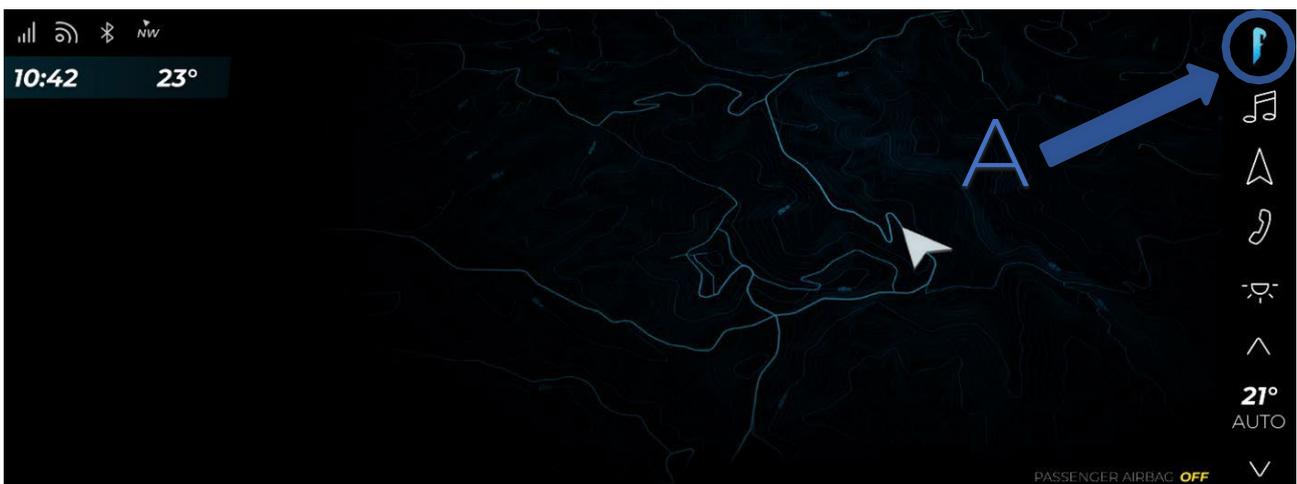
12V Battery Disconnect Switch Installed

Fixed location of the 12V battery disconnect switch (A) under the driver's dash area:

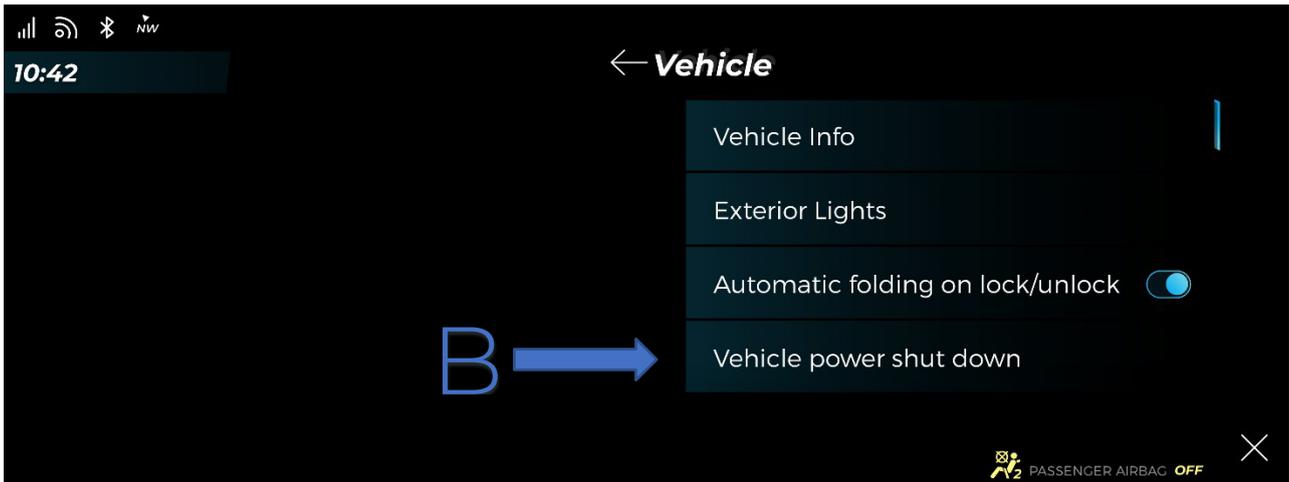


ALTERNATIVE 12V BATTERY DISCONNECT

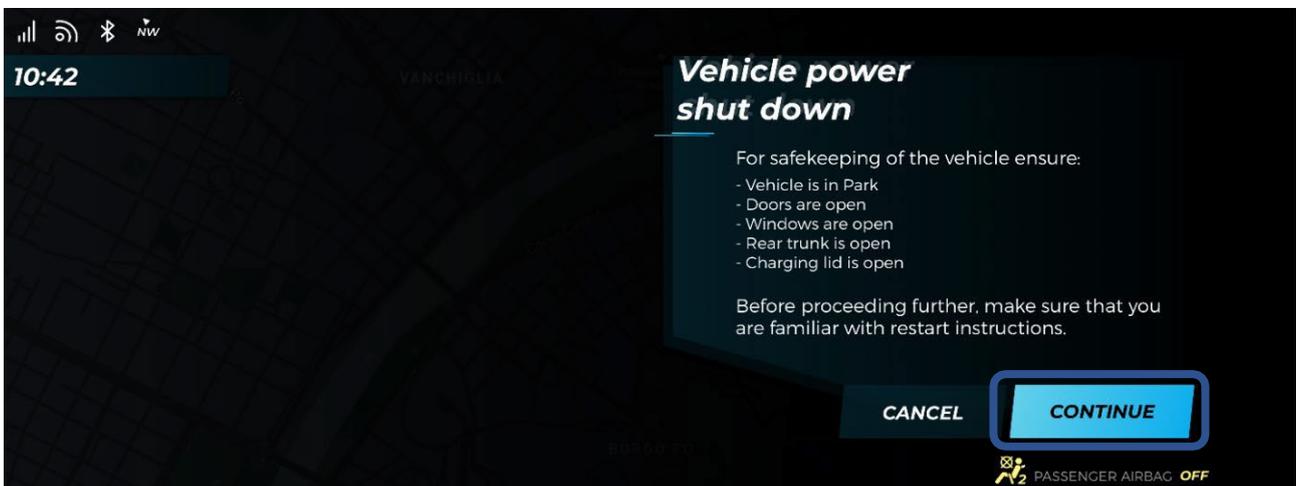
If the 12V button is not available due to tool kit not being with the vehicle, the 12V system can be shut off via the means of the vehicle's touch screen infotainment.



From the right touch screen, press the F logo in the top right corner (A). Scroll down and select the "Vehicle Settings", this will open up another layer of the menu.



Scroll down the list of features until you see “Vehicle Power Shut Down” (B) and select it.



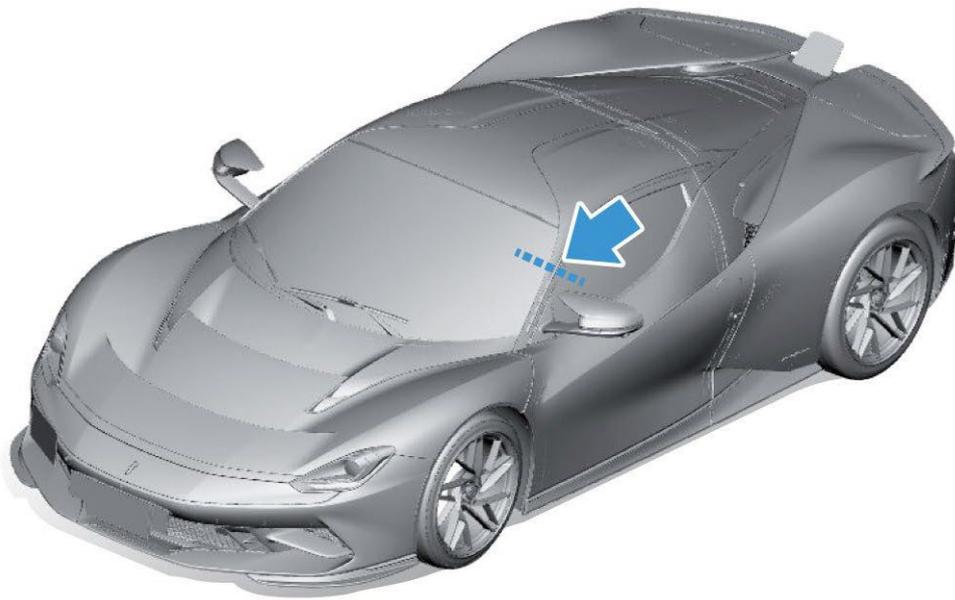
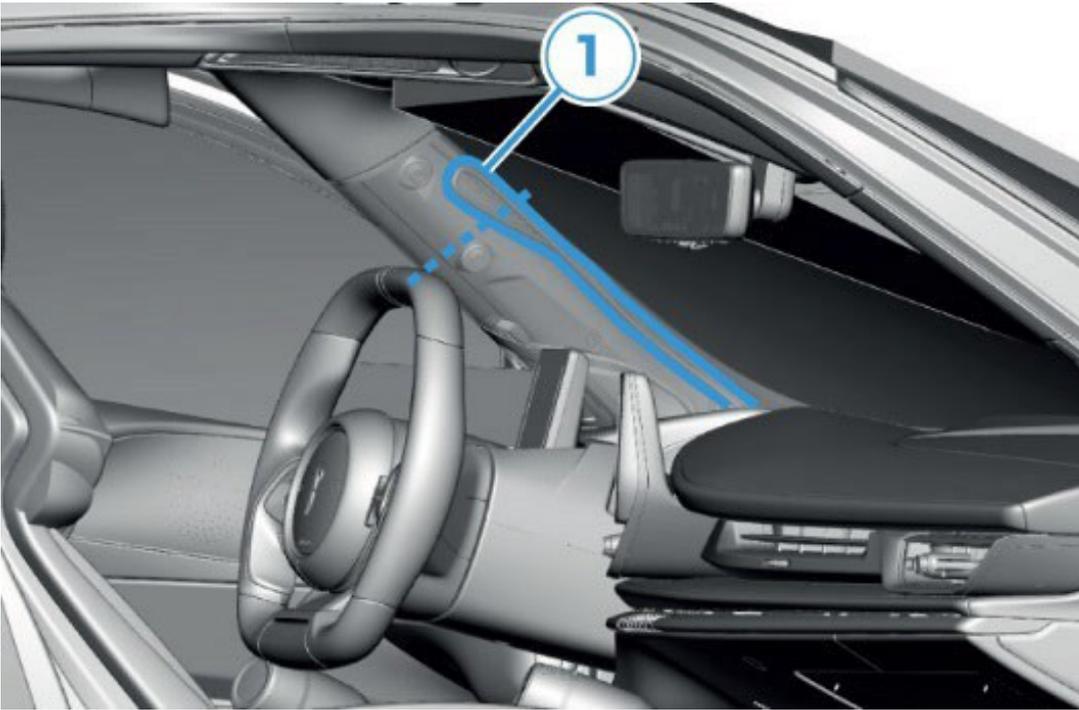
The following screen will be displayed, please press “Continue” button and follow the prompts on the screen. Vehicle shut down is possible by following the directions displayed.

NOTE: the vehicle will shut off completely after 12V has been shut off.

EMERGENCY FIRST RESPONDERS CUT LOOP

This cut loop system is designed to disable the high voltage in case of an accident. In case of a severe accident, the first responder will cut the area indicated to cut off the wire harness (1) inside the driver’s pillar to safely shut down the high voltage supply in the car allowing them safe extraction of the occupants of the vehicle.

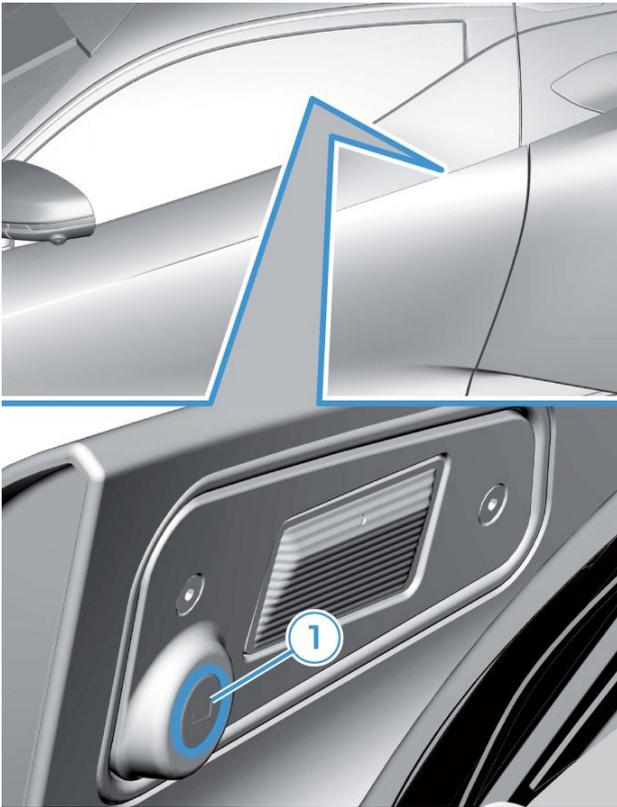
NOTE: Battista is constructed out of carbon fiber, which is more difficult to cut than steel or aluminum. Special equipment may be necessary in order to cut into the vehicle.



4. ACCESS TO THE OCCUPANTS

When extracting occupants from the vehicle, please follow the schematic on page 2 for details regarding the restraint components and their location. The vehicle's exterior panels as well as its unibody or monocoque is made from carbon fiber.

The doors can be opened from the EXTERIOR by means of electric door release pad. In addition to that there is a key lock cylinder (1) only on the driver's side of the vehicle.



The door can also be opened from the INTERIOR via a mechanical door release handle, as highlighted on the image below.



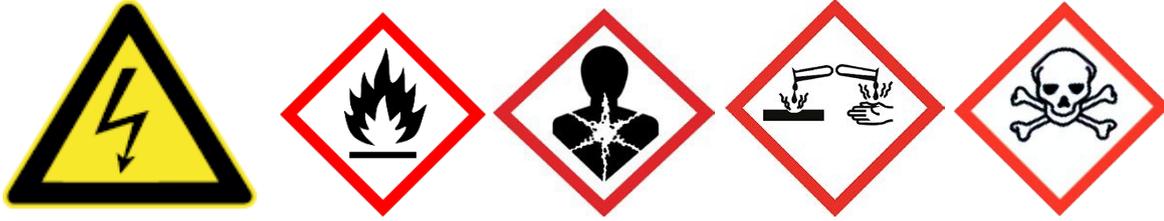
In case of an accident where the vehicle's power is disabled, the doors can still be opened from the inside.

NOTE: in case of an accident, the first responder may have to break the window in order to gain access to the interior mechanical door release handle.

The doors on the Battista open upwards and are assisted with gas pressurized struts.



5. STORED ENERGY / LIQUIDS / GASES / SOLIDS



HIGH VOLTAGE CABLE IDENTIFICATION

Any connector or wire harness that is orange in color, is part of the High Voltage system as shown in image below.



WARNING: NEVER cut, any HV cable as this could result in a serious injury or even death!



AIR CONDITIONER SYSTEM

Battista uses 2 separate systems; one is used to cool the interior of the vehicle and the other system is used to cool down the drivetrain. The systems use refrigerant of R-1234yf type.

6. IN CASE OF FIRE

In case of a vehicle fire, please contact the fire department immediately.



CAUTION: DO NOT ATTEMPT to extinguish a fire using a small amount of water as it is dangerous. Use of large amounts of water, such as from a fire hydrant, is needed.



CAUTION: Use a fire extinguisher that is suitable for flammable liquid and electrical equipment fires.



USE LARGE QUANTITY OF WATER (H₂O) IN CASE OF VEHICLE FIRE.



WARNING: BATTERY MAY RE-IGNITE.



WARNING: Never use seawater or any water containing salt.

7. IN CASE OF SUBMERSION

Damaged vehicle

If the exterior of the vehicle shows signs of severe damage, and if the bottom of the vehicle shows significant amount of damage – wear insulated Personal Protective Equipment to carry out the rescue operation while taking care not to come in contact with the high voltage battery.

Always treat the condition as dangerous and assume that the battery is in a hazardous condition.

Disable the HV system by means of the HV SDS switch as outlined in Chapter 3 of this responder's guide.

Submerged but not damaged

A submerged vehicle poses no risk of voltage being present on the vehicle body.

If the vehicle has been subject to submersion, first remove the occupants from the vehicle.

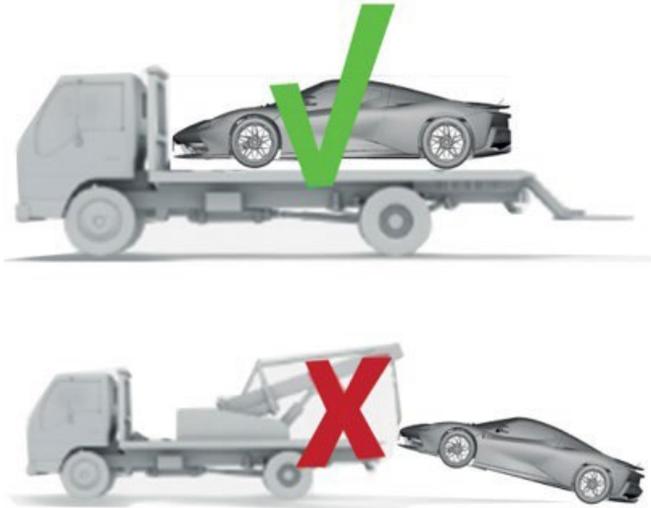
- 1.** Shut down the vehicle's high voltage and low voltage systems – see Chapter 3.
- 2.** Drain or extract water from the vehicle.

8. Towing / Transportation / Storage

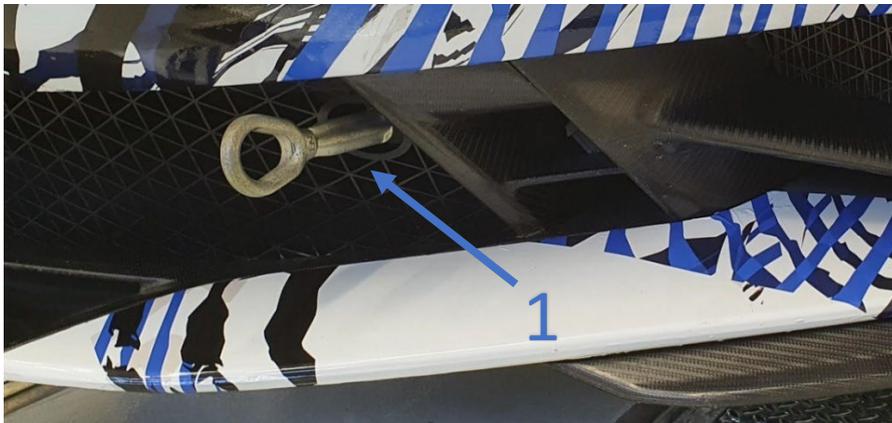
How to Transport

Transport the vehicle only with both axes on a tow truck or car transporter.

NOTE: Battista has limited ground clearance, when attempting to recover the vehicle, and if the vehicle allows for it – please raise the vehicle using the hydraulic lift system outlined in Chapter 9.



The tow hook should be threaded into the front of the vehicle's lower bumper grill opening (1). The tow hook is part of the vehicles Tool Kit.



CAUTION: When pulling the vehicle using the tow hook, the vehicle must be pulled straight - do not exceed angles above 10 degrees or damage can occur.

NOTE: There are no anchor points on the rear of the vehicle.

NOTE: The vehicle should be in "Neutral Gear" or in Tow Mode when the vehicle is being winched onto transport vehicle. Refer to "Starting the Car and Driving" section of this document- in Chapter 9 or Tow Mode below.



WARNING: Do not attempt to tow or pull the vehicle with the parking brake engaged.



WARNING: Do not attempt to tow the vehicle using any of the wheels on the ground. This may cause damage to the powertrain.

STORAGE OF DAMAGED VEHICLE

When storing the vehicle, verify that the HV system has been disabled via the means of the HV SDS – as outlined in Chapter 3 of this guide.

Keep the vehicle stored outdoors and at a safe distance from any buildings, vehicles, combustible materials, and overhead objects.



WARNING: Battery May Re-Ignite.



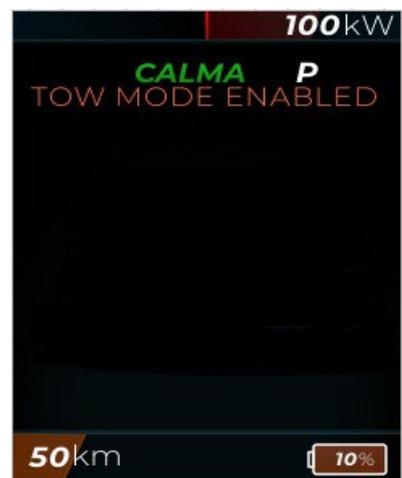
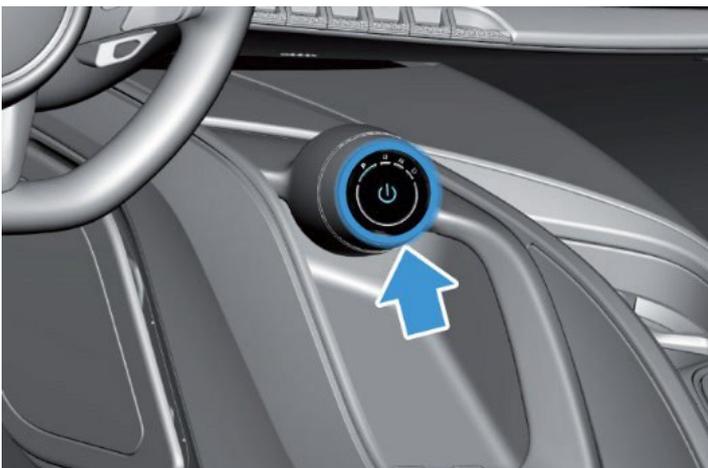
TOW MODE

Battista utilizes electronic parking brakes on the rear wheels only, when disengaged the vehicle will be able to roll freely. This mode is designed to allow for moving the vehicle whenever propulsion is not possible.



CAUTION: When Tow Mode is engaged, the vehicle will roll freely. Take necessary precautions when vehicle is in free-roll state to prevent any damage or harm to anyone or any objects that may be caused by a roll-away vehicle.

To activate Tow Mode, press and hold the Power Button in the center console knob for 12 seconds. The parking brake will be heard releasing. A message on the center screen will be shown.



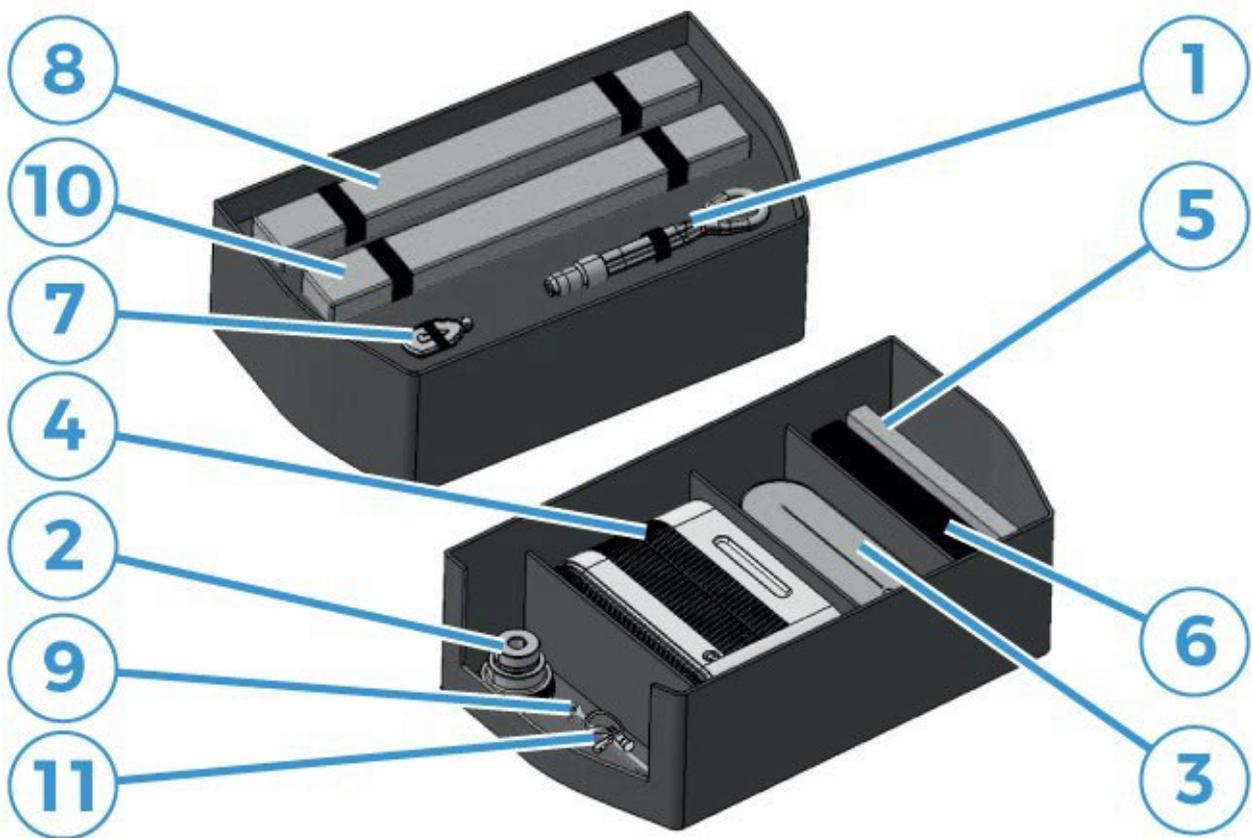
To disengage Tow Mode, press and hold the Power Button for 12 seconds. Parking brake will be heard engaging, and message is no longer shown on the center screen.

9. IMPORTANT ADDITIONAL INFORMATION

VEHICLE TOOL KIT

The following tools are contained in a duffel bag in the luggage compartment:

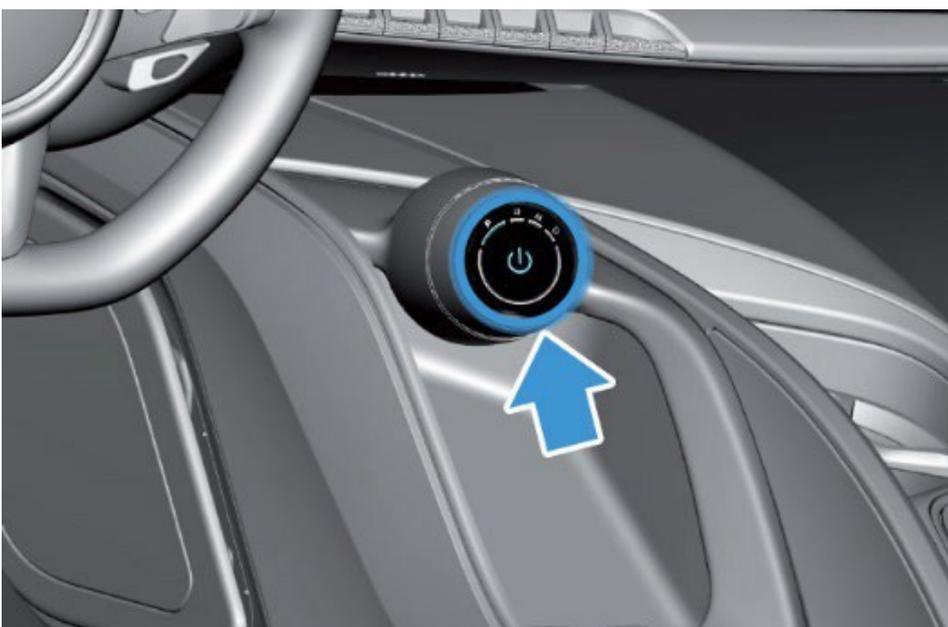
1. Towing hook
2. Single nut torque tool
3. 12V Battery charger
4. Tire Repair Kit
5. First AID kit
6. Reflective vest
7. Service key
8. Warning Triangle
9. Charge cable lock release tool
10. Reflector triangle (only for Canada and Spain market)
11. 12V Battery Disconnect Switch – depending on build date



STARTING THE CAR AND DRIVING

To start the car, proceed as follow:

- Place the key inside the car or in its cubby holder in the center console so it can be detected by the security system to start the car.
- Fully Press the brake pedal
- Push the power switch  shown in the figure.
- After the telltales illuminate and perform their check, once all of them turn off, the vehicle is “ready” for driving.
- Check the state of vehicle's charge on the infotainment screen as well as the estimated range.
- Rotate the gear selector dial to the desired; forward (D) or (R) reverse gear.
- Release the brake pedal.
- Press the accelerator pedal and start driving.

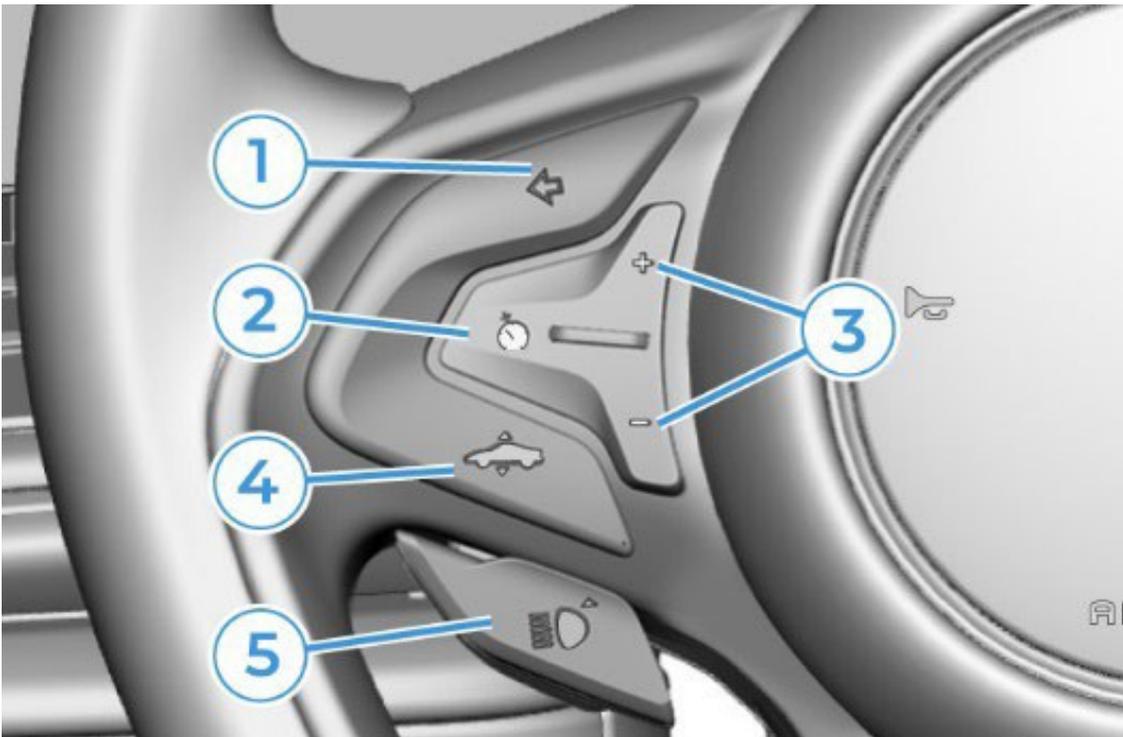


SUSPENSION LIFT FUNCTION

Due to the vehicle's low ride height, it may not be possible to get over some of the obstacles on the road or to allow the vehicle to be winched onto the back of a flat-bed carrier.

The vehicle is equipped with a hydraulic lifting system that will allow the vehicle to raise 50mm (1.95 inch) on the front and 44mm (1.75 inch) on the rear when engaged.

It can be engaged using the button (4) on the steering wheel to allow for both lifting and lowering. The system will show that it is lifting or lowering on the left infotainment screen during its operation.

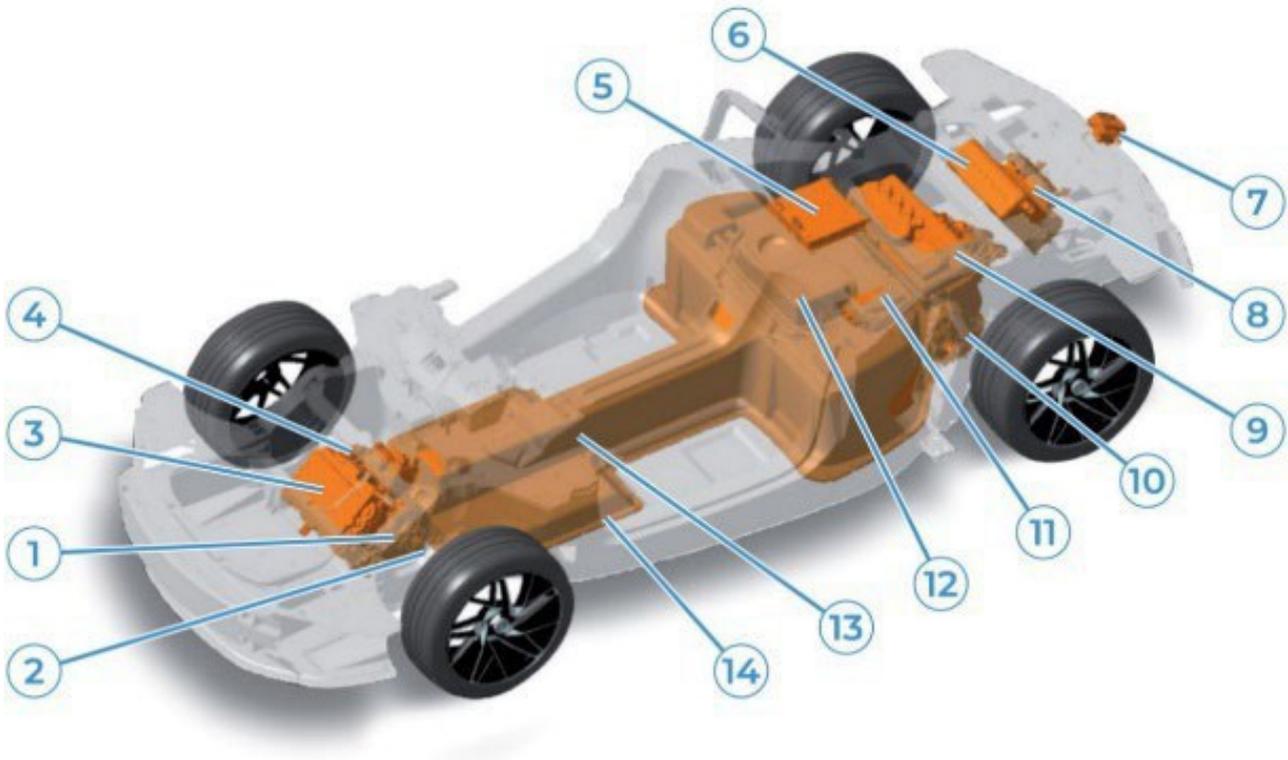


NOTE: the system may take up to approx. 30 seconds for the system to fully raise the vehicle.



CAUTION: When the vehicle is switched off, or power is interrupted, the hydraulic lift suspension will lower back to normal height.

ELECTRIC VEHICLE COMPONENTS

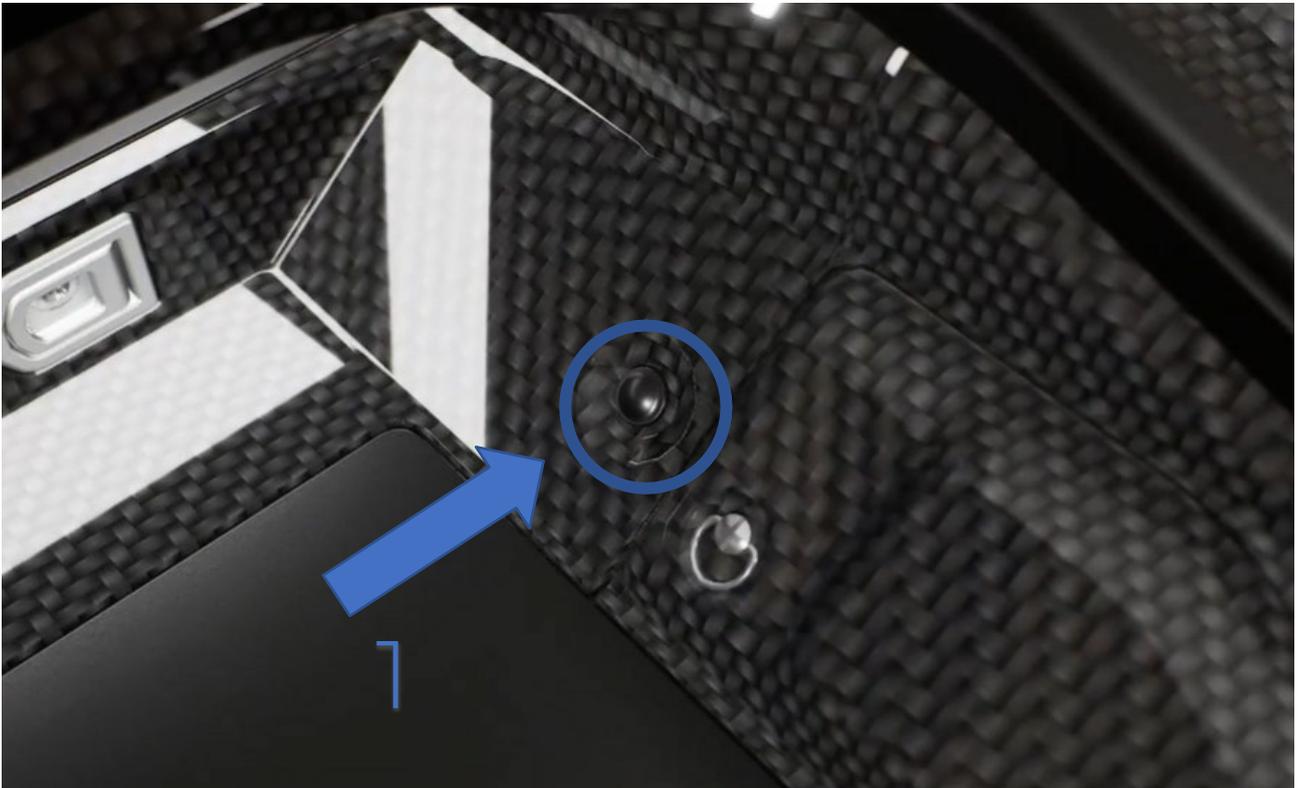


1. Front powertrain motors
2. Cabin heater
3. Front powertrain inverter
4. HVAC AC compressor
5. DC/DC converter
6. High Voltage battery charger
7. Charging inlet socket
8. Battery air conditioner compressor
9. Rear powertrain inverter
10. Rear powertrain motors
11. High Voltage battery heater
12. High Voltage battery power distribution unit
13. High Voltage battery
14. Vehicle High Voltage service switch ON/OFF (Interior driver's lower A pillar)

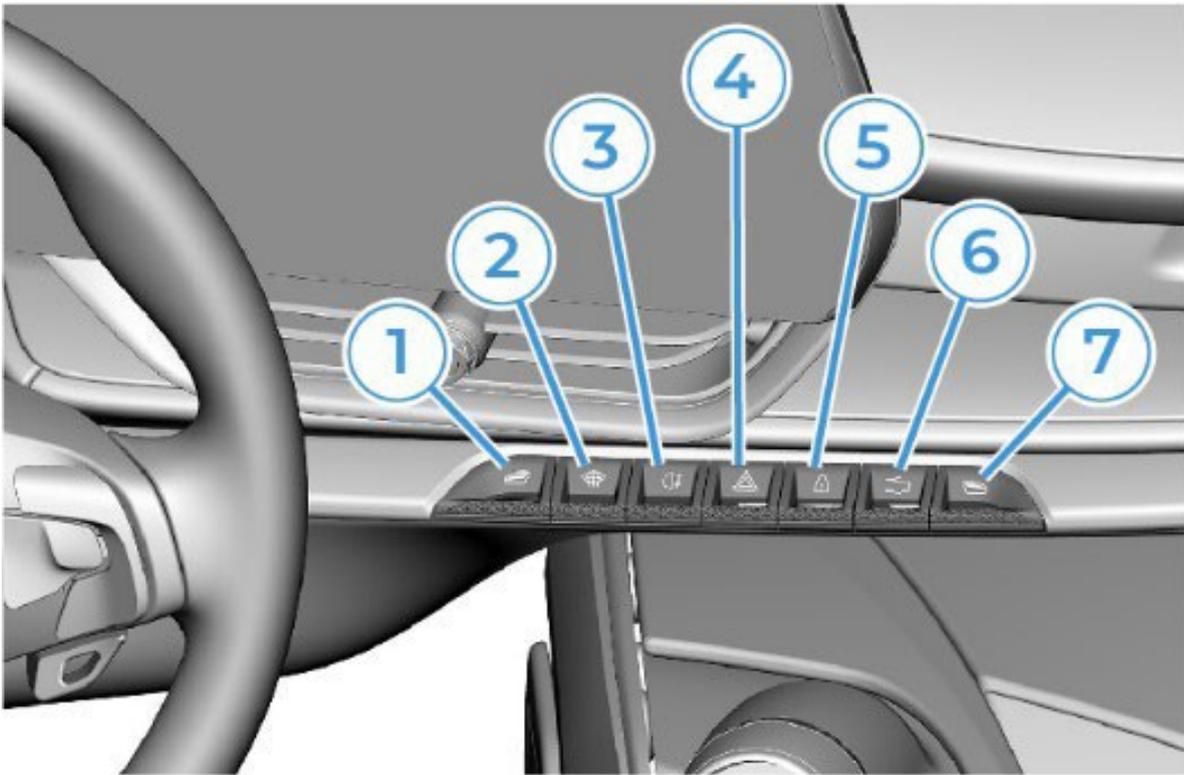
RE-POWERING THE 12V SYSTEM

In case the vehicle needs to be re-powered back on, the set button for the system is located in the trunk compartment of the vehicle.

Press the button (1) on the Right-Hand side of the rear trunk compartment.



CONTROLS ON DASHBOARD



The following controls are located on the central dashboard:

- 1 - Front left window opening/closing button
- 2 - Front window fast defrosting button / demisting function
- 3 - Rear fog light button
- 4 - Hazard light activation/deactivation button
- 5 - Lock/unlock door button
- 6 - Lock/unlock and opening / closing of rear storage compartment
- 7 - Front right window opening/closing button