

IONIQ 9.

Emergency Response Guide.



Hyundai Premium Roadside Support.
1800 186 306



WARNING

- If severe damage causes high-voltage components to become exposed, emergency responders should take appropriate precautions and wear appropriate insulated personal protective equipment.
- Do not attempt to remove the safety plug while standing in the water.
- Never cut or disconnect the high voltage orange cabling and connectors without first disabling the system by removing the safety plug.
- Exposed cables or wires may be visible inside or outside the vehicle. Never touch the wires, cables, connectors, or any electric components before disabling the system, to prevent injury or death due to electrical shock.

Failure to follow any of these instructions may result in serious injury or death by electrocution.

- Do not cut through any component of the Airbag (SRS) system (Supplementary Restraint System).
- SRS components may remain powered and active for up to 3 minutes after the 12V electrical system is shut off or disabled.

Disconnect the battery negative cable and wait for at least 3 minutes before beginning work. Failure to follow any of these instructions may result in serious injury or death from accidental deployment of the airbag system.

Introduction

The ERG (Emergency Response Guide) provided by Hyundai describes emergency response operations, warnings, and precautions related to the vehicle. This publication is intended to provide necessary information for vehicle accident rescue operations and for the training and further education of first and second responders.

Please note that the guide may be updated by Hyundai on an ongoing basis. It is not intended for retailers, end consumers, or any other readers not mentioned in the preceding sentence.

The provided guide applies only to the Hyundai IONIQ 9 model and includes information about the location and description of high-voltage components and the vehicle's structure. However, it does not cover every scenario in emergency situations.

Failure to follow the recommended procedures during emergency response may result in death or other serious injuries. It is important to read the guide in advance as it contains necessary information about the vehicle's features and other provided content in the event of an accident.

IMPORTANT INFORMATION



WARNING

A WARNING indicates a situation in which harm, serious bodily injury or death could result if the warning is ignored.

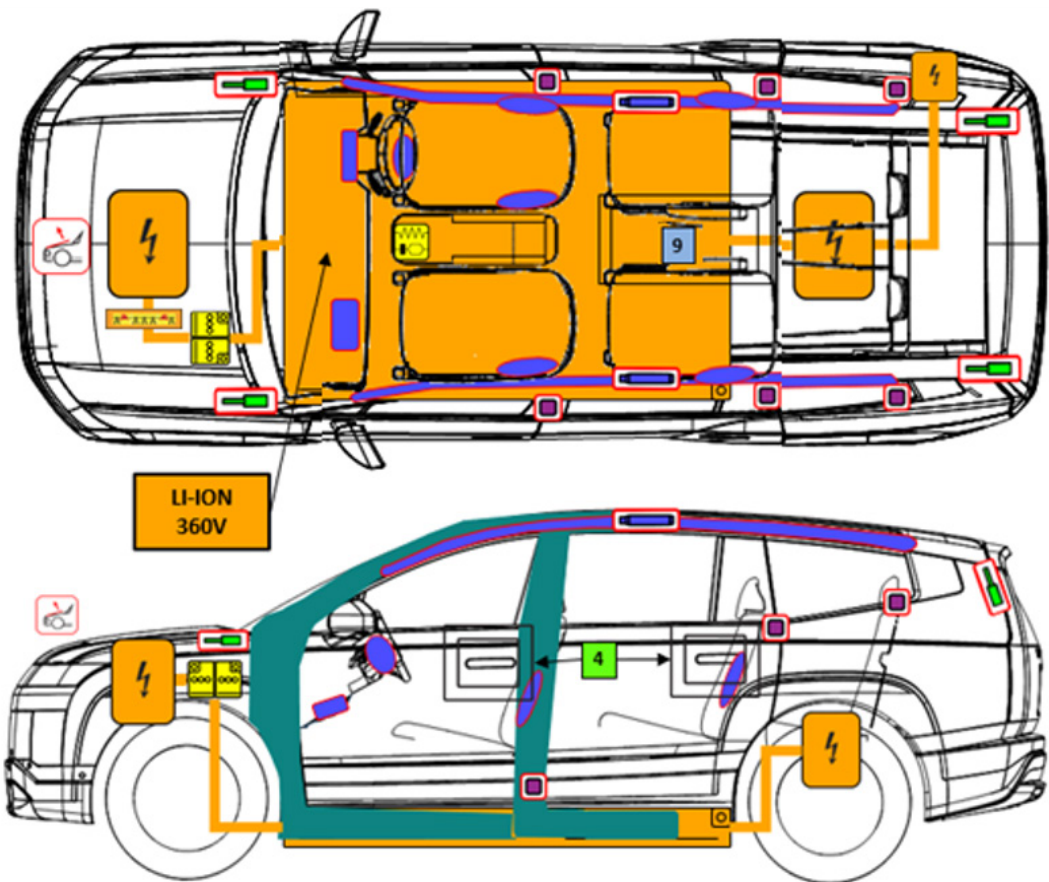
Contents.














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Hyundai IONIQ 9 Electric Vehicle.

SUV, 5 doors

From 2025



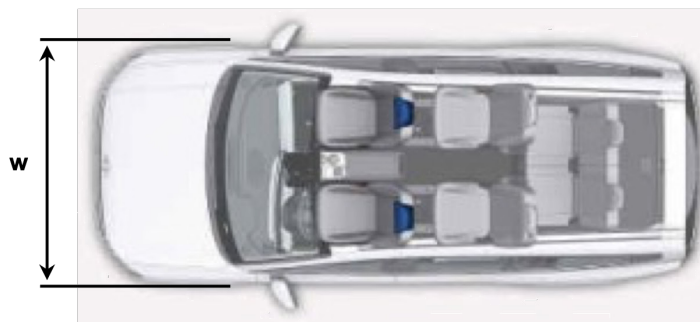
	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit
	Battery low-voltage		Gas strut / Preloaded spring		High strength zone		Zone requiring special attention
	Battery pack, high-voltage		High voltage power cable		High voltage component		Cable cut
	Pedestrian protection active system						
ID No. KMH-ME1-RS-B-5-202504		Version No. 01		Version date: 2025			

1. Identification/Recognition.

Initial response: Identify, Immobilise and Disable

The following procedures should be used whenever you are dealing with an IONIQ 9 at an emergency scene. However, all operations should be consistent with your department's standard operating procedures, guidelines, and any applicable laws. When an IONIQ 9 is damaged in a crash, the high-voltage safety systems may have been compromised and present a potential high-voltage electrical shock hazard. Exercise caution and wear appropriate personal protective equipment (PPE) safety gear, including high-voltage safety gloves and boots. Remove all metallic jewellery, including watches and rings.

	Items	mm
l	Overall length	5060
w	Overall width	1980
h	Overall height	1790



Identify



The IONIQ 9 is an electric vehicle. Emergency responders should respond to emergency scenarios involving the IONIQ 9 accordingly, exercising extreme care and caution to avoid contact with the high-voltage system within the vehicle.

1. Identification/Recognition.

Identifying a Hyundai IONIQ 9



Front and rear view of Hyundai IONIQ 9

The Brand Logo placed on the hood and on the tailgate.

Model name on Tailgate 'IONIQ 9'

The IONIQ 9 can be easily identified by the car name emblem attached on the middle of the tailgate. The logo may be missing or hidden after a crash due to damage to the vehicle. Always be sure to utilise additional methods of identification before determining that the vehicle is not an electric car.



Charging Port

The IONIQ 9 has a charging door on the rear right side which include the state of charge (SOC).



Charging Status Indicator

The battery charge status indicator (With 4-Step light), located inside the charging door, illuminates when the vehicle is charged. The number of lights illuminated indicates the charge level of the battery.



How to open the charging port

1. Depress the brake pedal and apply the Electric Parking Brake (EPB).
2. Turn OFF all switches, move the shift lever to P (Park) and turn off the vehicle.
3. Open the charging door by pressing on it, or press the "Charging door button" on the driver's crash pad.

No	Name
1	Warning for high voltage
2	Warning/ Caution symbol
3	Rated voltage and maximum charging current



1. Identification/Recognition.

P.E ROOM

The Hyundai IONIQ 9 has a frunk in the centre with different capacities by specification. Please see below indicating the location of each variant.

1	CAP - brake fluid reservoir
2	CAP - coolant reservoir
3	CAP – refrigerant
4	Windshield washer fluid reservoir
5	Label refrigerant
6	Cover – air cleaner
7	Cover - battery



High Voltage Cable (Orange colour)

The high-voltage cabling is orange, as per the Society of Automotive Engineer standards. Cables run under the floor of the vehicle and connect the High-Voltage Battery to the ICCU, Motor, Inverter, Junction box, A/C compressor and Voltage components located towards the front of the vehicle.

You can identify the vehicle as an electric vehicle with the presence of orange in the hood, in the under-floor battery compartment, or HV cables under the car.



Vehicle Identification Number (VIN) Label

The VIN Number is specified in the IONIQ 9 and identifies the single variants as below.

Location of VIN in the IONIQ 9

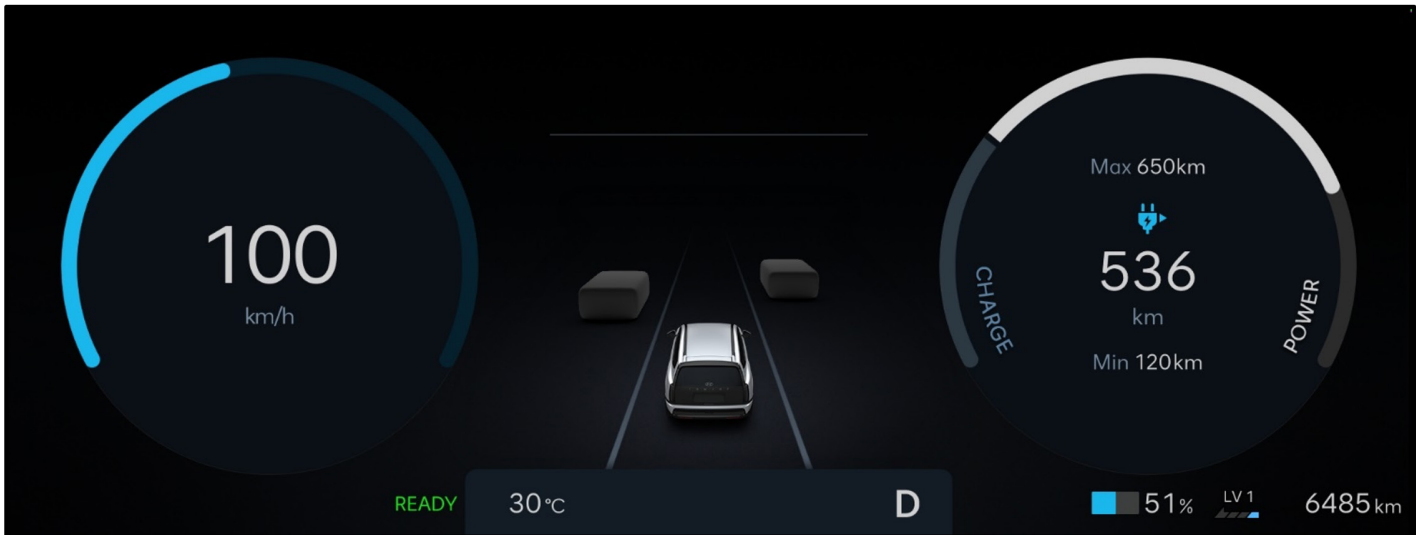
1. VIN Plate can be seen through the windshield from outside (1)
2. The VIN can be also found under the driver's seat (or passenger's seat) (2)



1. Identification/Recognition.

Instrument Cluster

The IONIQ 9 Cluster Instrument Panel displays EV specific features such as high-voltage battery SOC (State of Charge) as below.



1	Speedometer	5	Warning and indicator lights
2	Distance to empty	6	Reduction gear shift indicator
3	Power/Charge gauge	7	Odometer
4	Battery SOC (State of Charge)	8	Regenerative braking level indicator

2. Immobilisation/Stabilisation/Lifting.

Immobilisation

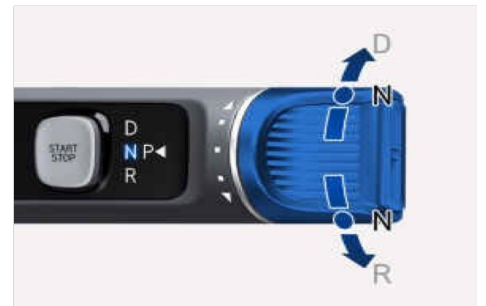
The next step is to immobilise the vehicle to prevent any accidental movement that can endanger response personnel or civilians. Responders should approach the vehicle from the sides and stay away from the front or rear as they are potential paths for vehicle movement. Be sure to immobilise the vehicle in the following manner.



Chock the wheels



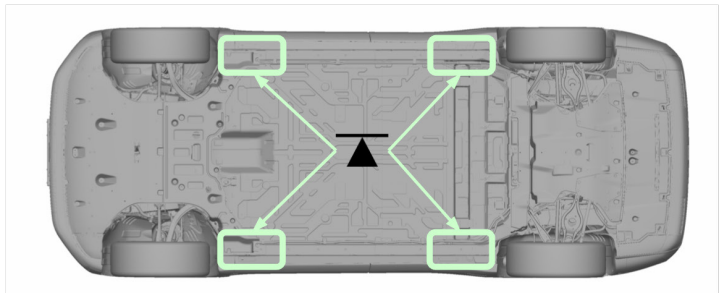
Set the Electronic Parking Brake (EPB)



Put the vehicle in P (Park) position by pressing the 'P' button on the rotary shifter

Stabilisation

Use standard stabilisation (lift) points, as shown below. Always be sure to connect to a structural component of the vehicle and avoid placing cribbing under high voltage cables, and other areas not normally considered acceptable.

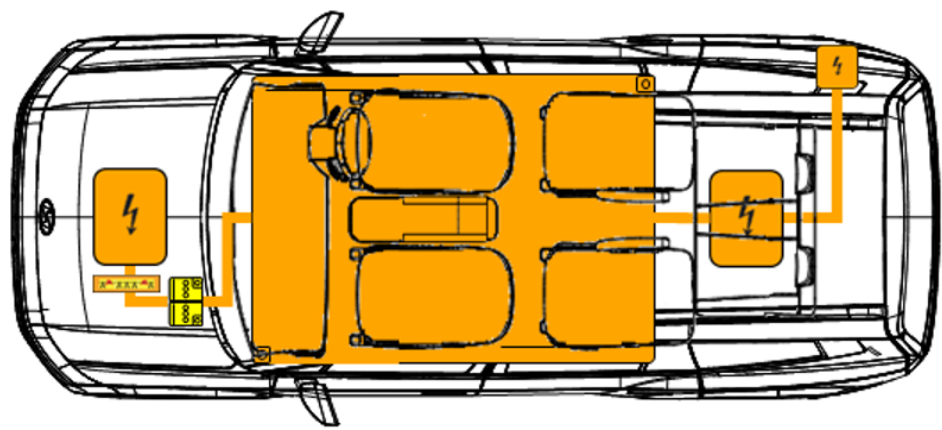


Lifting

- When installing a block or jack, avoid high voltage cable, battery and fuel system.
- If high voltage components or cables are exposed, do not place any support on them.

3. Disable direct hazards/Safety regulations.

The final step in the initial response process, conducted after immobilising the vehicle, is to disable the vehicle; its SRS components and the high voltage electrical system. To prevent current flow through the system, use one of the following procedures to disable the vehicle.



High Voltage Cables

- Never cut or disconnect the high voltage orange cabling and connectors without first disabling the HV system. (refer to page 11).
- Exposed cables or wires may be visible inside or outside the vehicle. Never touch the metal chassis wires, cables, connectors, or any electric components before disabling the system.

Disconnecting the charging connector in an emergency

If the charging connector does not disconnect from the charging inlet due to battery being fully discharged or a wiring failure, open the tailgate and pull the emergency cable following the instructions:

Description	Picture
Open the tailgate, remove the emergency cable cover (1) located on the right side of the cargo, and pull the emergency cable (2).	



Charging cable

- AC charging cable (left)
- Portable: In-Cable Control Box (ICCB) (right)



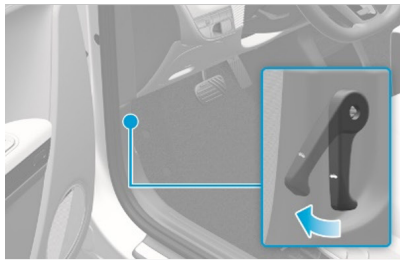
3. Disable direct hazards/Safety regulations.

Disabling of high voltage electrical system



Via Service Interlock

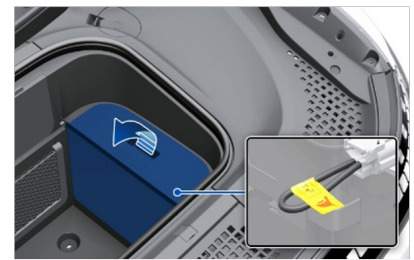
To disable the HV-system, use the service interlock device located in the fuse box in the engine compartment. The “Service Interlock” is not completely removable, take care not to reconnect the HV-System. For longer work on the vehicle the 12V – Battery System should be additional disconnect by following the procedure on the next page.



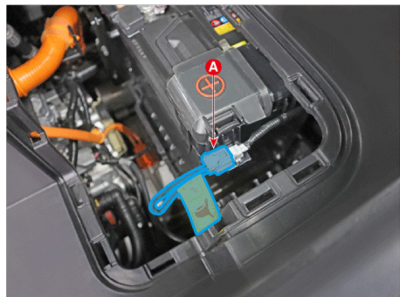
Pull the hood release lever to unlatch the hood.



Go to the front of the vehicle, raise the hood slightly, push up the secondary hood release lever inside of the hood centre and lift the hood.



From the point of view Service cover is located on the right side. Remove the service cover and find the Service Interlock.



Open the cover of the box and find the “Service Interlock”

Disconnect the “Service Interlock” connection (orange circle)



In emergency cut the cable at the marking

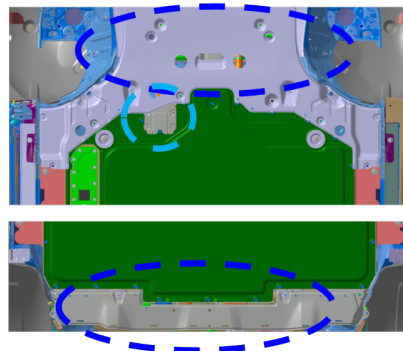


Via HV - Connector

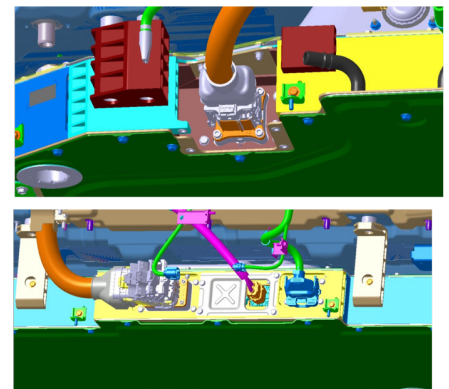
To disable the HV-System with the HV-Connector, you need to raise the vehicle. To disconnect the system, follow the procedure as describe below. After disconnection, seal the battery HV connector with insulation material to prevent electrocution.



Lift the car to approach under floor where battery located



Remove the **front/rear under cover**, **high voltage connector cover**.



Disconnect the **high voltage HV** and **low voltage LV** connector.

3. Disable direct hazards/Safety regulations.

Disabling the 12V battery system.

Via “Engine Start/Stop” Button

It is possible to disable the 12V battery system from IONIQ 9 by using the “Start/Stop” button. The different modes with and without depressing the brake pedal are explained below.



Without depressing the brake pedal	
Pressing “Start/Stop”	Vehicle condition
One time	Electrical accessories are operational
Two times	The warning lights can be checked before the vehicle is started
Three times	Off

While depressing the brake pedal	
Pressing “Start/Stop”	Vehicle condition
One time	Ready

Via disconnect the terminals or connectors

To disable the 12V battery system, ensure that the vehicle’s EV system is off. If the “READY” light on the instrument panel is illuminated, the vehicle is “ON”. In this case turn “OFF” the system by pressing the “P” button on the shifter and press the “Engine Start/Stop” button. If it is necessary, lower the windows, unlock the doors and open the tailgate as required, before disconnecting the 12V battery. Once the 12V battery is disconnected, power controls will not operate.



Before disconnecting the 12V battery, remove the smart key at least 2 meters away from the vehicle to prevent accidental restart.

To disconnect the terminals or connectors follow the procedure as below:



1. Turn the ignition switch off
2. Open the hood (1)
3. Remove the 12V battery service cover (2)
4. First disconnect the negative (-) terminal (3)
5. In second step disconnect the positive (+) terminal (3)



Electrocution Risk

- Before engaging in any emergency response procedures, ensure the vehicle is disabled and wait 5 minutes to allow the capacitor in the high voltage system to discharge to avoid electrocution.
- Exposed cables or wires may be visible inside or outside the vehicle. Never touch the metal chassis wires, cables, connectors, or any electric components before disabling the system.

3. Disable direct hazards/Safety regulations.

Via IG (Ignition) Fuse Removal

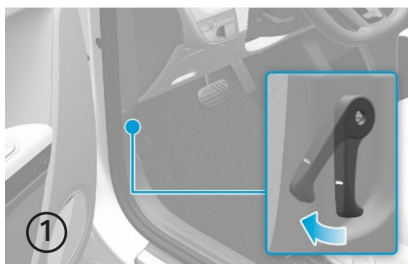
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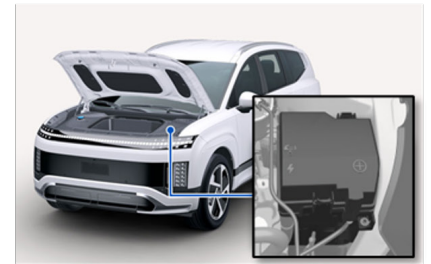
To remove the IG Fuse, follow the procedure as below:



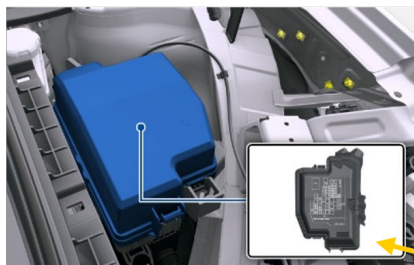
Pull the hood release lever to unlatch the hood.



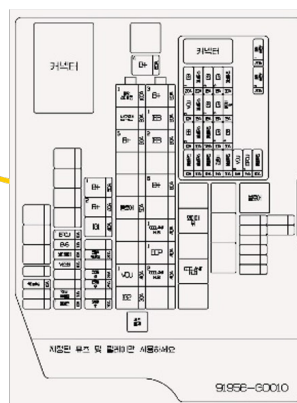
Go to the front of the vehicle, raise the hood slightly, push up the secondary hood release lever inside of the hood centre and lift the hood.



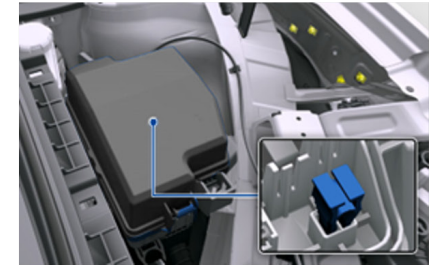
From the point of view the fuse box is located on the right side



Remove the engine room fuse box cover. In the cover you can find the label describing fuse names and ratings.



Refer to the label on the inside of the fuse cover to locate the fuse location of "IG1" and "IG2"



Pull both the "IG1" and "IG2" fuse straight out from the engine room fuse box.
Use the removal tool (1) provided in the engine compartment fuses panel cover.



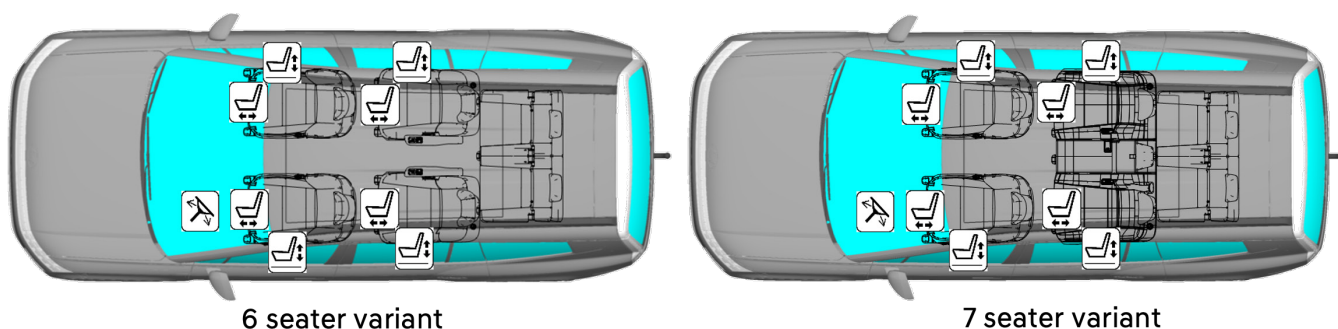
Safety Risk

If mentioned methods of disabling the vehicle's system are unsuccessful, any emergency procedures involving the electric vehicle may cause the accidental deployment of undeployed airbags and electric shock from high-voltage components.

4. Access to the occupants.

Extraction Operations

The IONIQ 9 is an electric vehicle. Because of the high voltage components contained therein, first responders should pay special attention when they extract occupants from the car. Before performing any extraction operations, the first responders should “Identify, Immobilise and Disable” the vehicle as discussed in sections on emergency procedures. When the first responders cut the vehicle, they should always pay special attention to the airbag system, orange coloured high voltage cables, and other high voltage components so that the parts are not damaged, and to prevent a risk of explosion or electrocution.

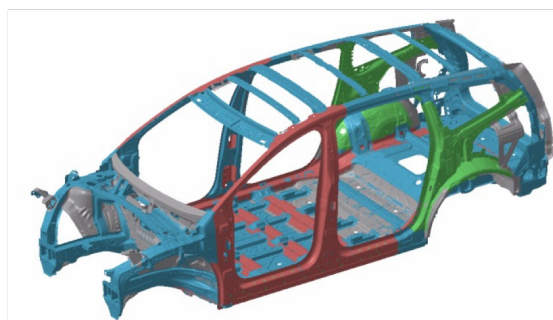
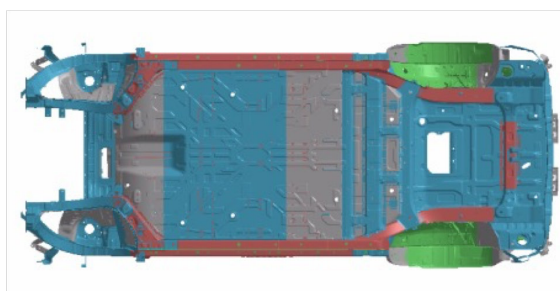


Extraction Tools and Procedure

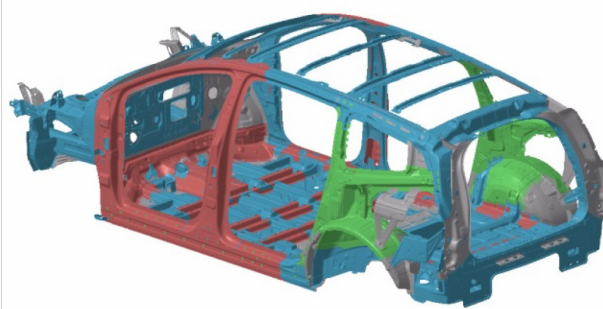
When responding to an incident involving an IONIQ 9, we recommend that the first responders follow their organisation's standard operating procedures for dealing with vehicle emergencies.

Location of Ultra-high Strength Steel

In these images, high strength steel is used in the areas coloured in blue, and ultra-high strength steel is used in the red coloured areas. Depending on the tools used, ultra-high strength steel can be challenging or impossible to cut. If necessary, use a workaround technique.



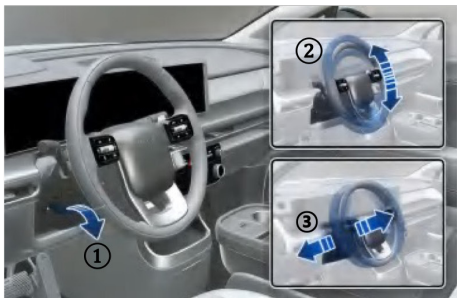

Colour	Material type
Grey	Mild
Blue	High-strength
Red	Ultra-high-strength
Green	Aluminium



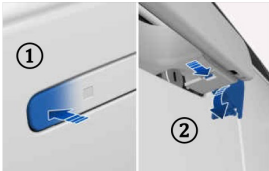



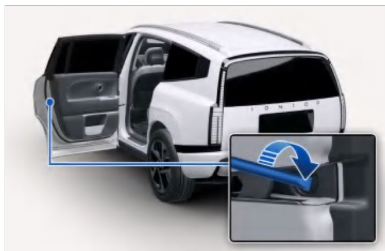


4. Access to the occupants.

Steering wheel adjustment

The Hyundai IONIQ 9 is equipped with manual or automatic steering wheel adjustment. For better access to the occupant after accident, the steering wheel can be moved as follow.

Manual adjustment	Automatic adjustment
	
Pull down the lock-release lever (1).	Push the switch (1) up and down to adjust the angle (2).
Adjust the steering wheel angle (2) and distance forward/back (3).	Push the switch forward or rearward to adjust the height (3).
Pull up the lock-release lever up to lock the steering wheel in place	

Door and tailgate unlocking

Mechanical unlock	Inside the vehicle	Central door lock
 <p>* Mechanical door lock exists driver-side door only.</p>		
1) Push the front part of the door handle inward to pull the rear part out.	If the inner "Driver" door handle is pulled, the door is unlocked and opened.	Pressing button (1) on the switch, all vehicle doors are unlocked
2) Tilt the hook of lock cover of the door handle with a flat item such as a key or nail, then remove the cover from the door handle.	All other inner doors handles needs to be pulled once to unlocked. A second pull will open the door	
 Boot		
		
3) Insert the key into the keyhole and rotate clockwise to lock and reverse to unlock. Once the doors are unlocked, they can be opened by pulling the door handle.	Push the tailgate to open.	Press the power tailgate open/close button for 1 second.

4. Access to the occupants.

Windows and Glass

The IONIQ 9 is equipped with power windows. Each door has his own switch to control the door's window. The driver door has central power window lock button which can lock and unlock all operations of the rear passenger windows. The power windows operate for about 3 minutes after the Engine Start/Stop button is in the ACC or OFF position. The IONIQ 9 can be optioned with a sunroof window.



Glass type	
1	Laminated
2	Laminated
3	Laminated
4	Tempered
5	Tempered

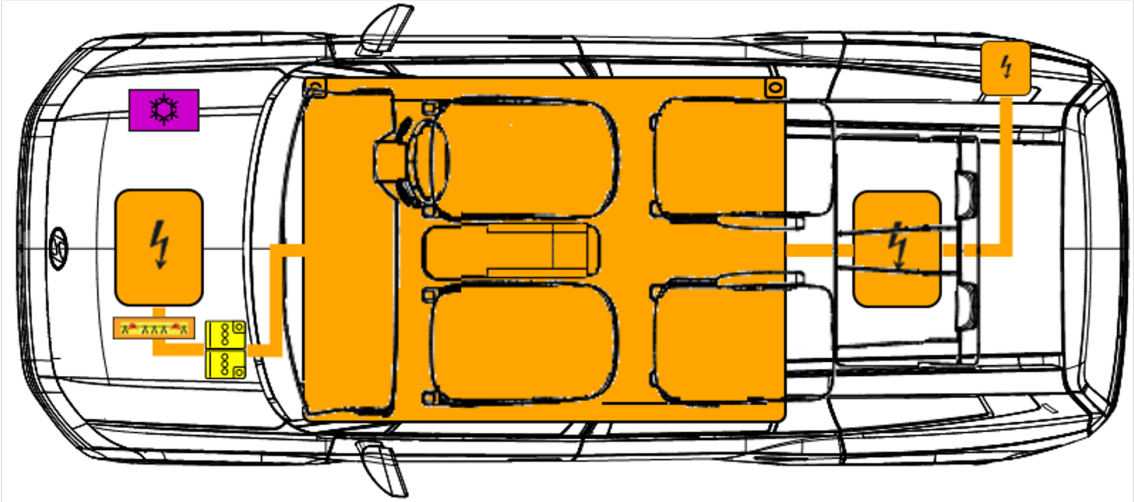
Seat adjustment











IONIQ 9 is equipped with manual or powered seats in the 1st and 2nd row. Main functions are following:

Item	Manual	Power
Forward and rearward 	Pull up the slide adjustment lever and hold it. You can slide the seat forward And rearward. Release the lever to lock.	Push the control switch forward or rearward.
Seat cushion high 	Push down the lever several times, to lower the seat cushion. Pull up the lever several times, to raise the seat cushion	Push the front portion up to raise or down to lower the front part of the seat cushion. Push the rear portion up to raise or down to lower the height of the seat cushion
Seatback angle	Lean forward slightly and lift up the seatback lever. Carefully lean back on the seat and adjust the seatback. Release the lever to lock.	Push the control switch forward or rearward
Walk-in switch for 3rd row	Press either the 3 rd row seat walk-in switch (1) located at the top of the 2 nd row seatback or the 3 rd row seat walk-in switch (2) on the outer side of the 2 nd row seat. Then the seatback will fold and the seat will move forward slightly.	If the walk-in switch does not work, pull the strap (1) located on the lower left side of the seat. Then you can move the 2nd row seat forward
Seatback remote folding 2nd and 3rd row	2nd row Press the seatback folding switch (1) located on the right side of the tailgate.	3rd row Pull the seatback angle adjustment strap to completely fold the seatback forward. Make sure the seatback is securely locked in place.

5. Stored energy/Liquid/Gases/Solids.

The IONIQ 9 is equipped with an electric engine.

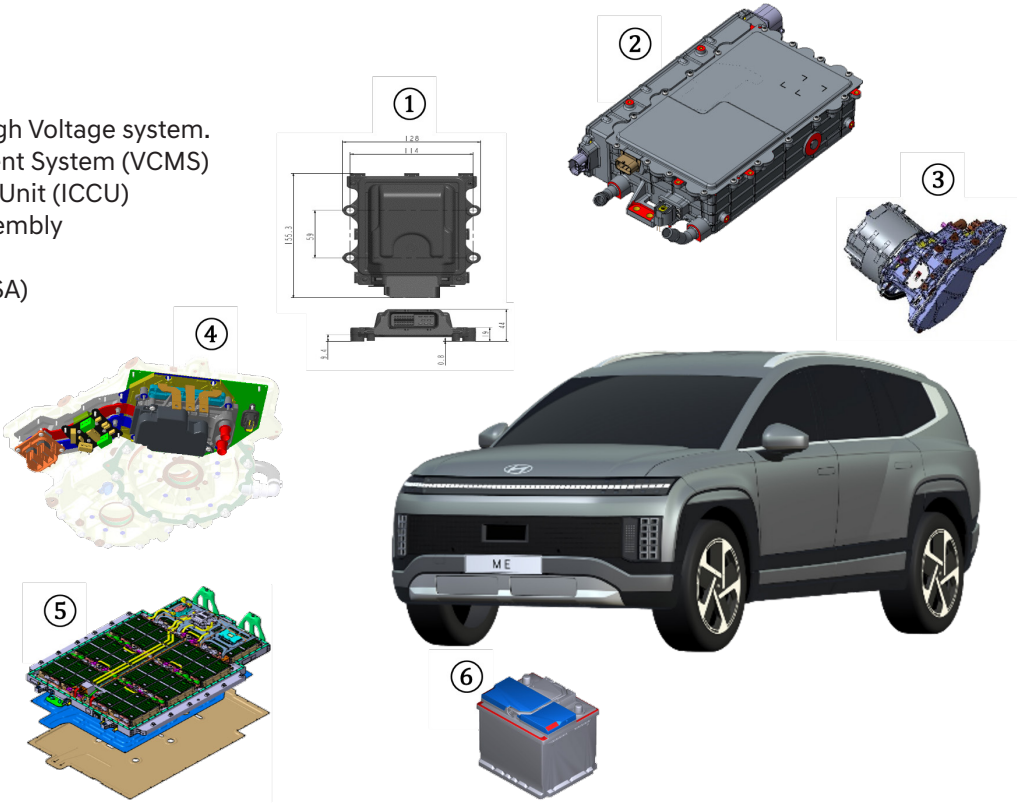


Type	Advisory pictogram				EV
	LI-ION				610V
	Lead-acid				12V
	R-134a				1400g

High Voltage System

The IONIQ 9 is equipped with High Voltage system.

- Vehicle Charging Management System (VCMS)
- Integrated Charging Control Unit (ICCU)
- Motor & Reduction Gear Assembly
- Inverter
- Battery System Assembly (BSA)
- 12V Auxiliary Battery

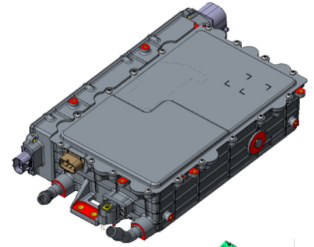


5. Stored energy/Liquid/Gases/Solids.

ICCU

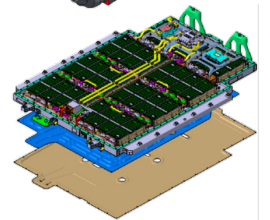
The ICCU, located on top of the PE system in the PE room, below the PDU(J/B), incorporates an OBC and LDC.

- OBC : HV battery charging equipment that converts external AC to DC, to charge the high voltage battery.
- LDC : High voltage of battery is converted low voltage (DC 12V) through the LDC for supplying power to electrical components.



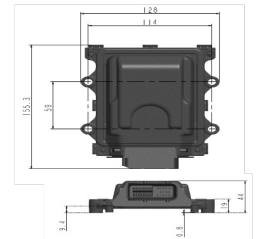
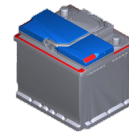
Battery System Assembly (BSA)

The HV lithium-ion battery supplies and stores electric energy. It is located under the IONIQ 9 chassis.



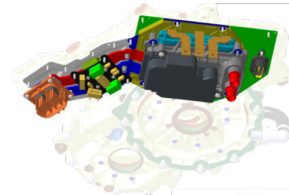
12V Auxiliary Battery

The 12V auxiliary battery powers all of the vehicle's standard electronics like a radio, lights, door locks, power windows, etc. Also, it powers the VCU (Vehicle Control Unit), VCMS (Vehicle Charging Management System) which controls the high voltage current and vehicle.



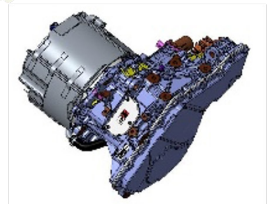
Vehicle Charging Management System (VCMS)

VCMS manages the charging of electric vehicles, ensuring safe and efficient operation.



Inverter

The inverter converts battery DC power to AC power for the electric motor and controls its speed and torque. Inverters operate at high voltages, posing electric shock risks, especially if damaged.



Motor & Reduction Gear Assembly

The electric motor converts electrical energy from the battery into mechanical energy to drive the vehicle. The reduction gear reduces the speed of the motor while increasing torque to help the vehicle accelerate effectively. Both components can pose risks in case of failure or damage. The electric motor can have high currents, leading to electric shock, while the reducer contains moving parts that may cause injury during maintenance.

Specification EV-System			
Motor		Type	PMSM
		Max. Output (kW)	Long range RWD : 160 Long range AWD : 226 Performance AWD : 315
		Max Torque (Nm)	Long range RWD : 350 Long range AWD : 605 Performance AWD : 700
ICCU	OBC	Max. Output (kW)	7 (single-phase) / 10.5 (three-phase)
	LDC	Max. Output (kW)	2.4
High Voltage Battery		Type	Lithium-ion
		Rated Voltage (V)	610
		Energy (kWh)	110
		Quantity for Pack (Cell / Module)	504 Cells X 42 Modules

6. In case of Fire.

Firefighting Operations

Strict precautions must be taken while conducting firefighting operations due to the following reasons:

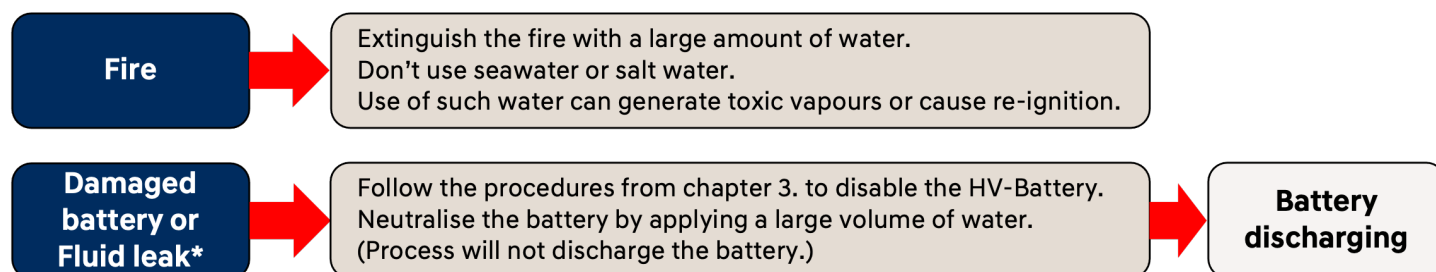
- Lithium-ion batteries contain gel electrolyte that can vent, ignite, and produce sparks when subjected to temperatures above 149°C.
- Vehicle may burn rapidly with a flare-burning effect.
- Even after the high/low voltage battery fire appears to have been extinguished, renewed or delayed fire can occur.
 - Use a thermal imaging camera to ensure the high/low voltage battery is completely cooled before leaving the incident.
 - Always advise second responders that there is a risk of the battery re-igniting.
 - In a fire, submersion or a collision that has compromised the high/low voltage battery, always store it in an open area with no exposures within 15 meters.
- A burning battery could release hydrogen fluoride, carbon monoxide, and carbon dioxide gasses. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear. Even if the high/low voltage battery pack is not directly involved in a vehicle fire, approach the vehicle very carefully.



Extinguishers

Small fires that do not involve the high/low voltage battery should be extinguished using an ABC fire extinguisher. (ex. Fire caused by wiring harnesses, electrical components, etc.)

Do not attempt to extinguish fires that involve the high/low voltage battery with small amounts of water as this can result in electrocution. Fires that involve the high/low voltage battery should be extinguished using large amounts of water (max 10,000 litre) to cool the high/low voltage battery. Fire fighters should not hesitate to pour larger amounts of water on the vehicle in such scenarios. Make sure the battery is fully cooled to avoid fire re-ignition.



Electrolyte Irritation

The high/low voltage battery contains electrolyte solution. To avoid exposure to electrolyte solution and serious personal injury, always wear appropriate solvent resistant PPE (Personal Protective Equipment) and SCBA (Self-Contained Breathing Apparatus).

- Electrolyte solution is an eye irritant. In the event of contact with eyes, rinse with plenty of water for 15 minutes.
- Electrolyte solution is a skin irritant. Therefore, in the event of contact with skin, wash off with soap.
- Electrolyte liquid or fumes coming into contact with water will create vapours in the air from oxidation. These vapours may irritate skin and eyes. In the event of contact with vapours, rinse with plenty of water and consult a doctor immediately.
- Electrolyte fumes (when inhaled) can cause respiratory irritation and acute intoxication. Inhale fresh air and wash mouth with water. Consult a doctor immediately.

6. In case of fire.

Vehicle Fire

- Use a large volume of water (max. 10,000 litre). Water must cool down the battery.
- If water is applied directly onto the high/low voltage battery module inside the casing, it will better cool the battery. (Never attempt to penetrate the HV battery or its casing to apply water.)
- Putting water into the high/low voltage battery can be difficult due to the battery case.
- Put water through the hole that might be made due to the accident or fire.

High/Low Voltage Battery Damage and Fluid Leaks

If electrolyte solution leakage or any damage to the Lithium-ion battery casing is observed, the first responders should attempt to neutralise the battery by applying a large volume of water to the battery pack while wearing appropriate Personal Protective Equipment (PPE). The neutralisation process helps stabilise the thermal condition of the battery pack but does not discharge the battery.

- Do not put any smoke, spark, flame around the vehicle.
- Do not touch or step on the spilled electrolyte.
- If electrolyte leak occurs, wear appropriate solvent resistant PPE and use soil, sand, or a dry cloth to clean up the spilled electrolyte.

Be sure to adequately ventilate the area.

High/Low Voltage Battery Re-ignition by Stranded Energy

Damaged cells in the high/low voltage battery can experience thermal runaway* and re-ignition.



Use Infrared Camera (IR-Cam) to observe thermal runaway. Focus the battery with the IR-Cam the whole time. Increase of the temperature could indicate a thermal runaway.

To prevent re-ignition, the first responder and second responder need to be aware of the risk of stranded energy^ which remains in the damaged cells and can lead to re-ignition. Therefore, disconnect the 12V battery (-) terminal to depower the battery management system (BMS). After that shut off the HV-System (as explained in chapter 3, page 10) and discharge the HV-Battery (refer to chapter 8, page 22).

*Thermal Runaway

The originating cause of thermal runaway is generally short-circuiting inside a battery cell and a resulting increase in the cell's internal temperature.

Battery produces heat with thermal runaway, and it can spread from one battery cell to many cells, in a domino effect.

^Stranded energy

Energy remains inside any undamaged battery cells after the accident. Stranded energy can cause a high/low voltage battery to reignite multiple times after a fire has been extinguished.

7. In Case of Submersion.

Submerged or Partially Submerged Vehicles

Some emergency responses can involve a submerged vehicle. The IONIQ 9 does not have high voltage components on the vehicle's body or framework. It is safe to touch the vehicle's body or framework if there is no severe damage to the vehicle, whether it is in water or on land.

In the event that the vehicle is submerged or partially submerged, remove the vehicle from the water before attempting to disable the vehicle. Drain the water from the vehicle. Use the methods described in chapter 3 to disable the vehicle. Then, discharge the battery by referring to chapter 8.



Safety Risk

If severe damage causes high/low voltage components to become exposed, responders should take appropriate precautions and wear appropriate insulated personal protective equipment.
Do not attempt to remove a high voltage cable while the vehicle is in water.

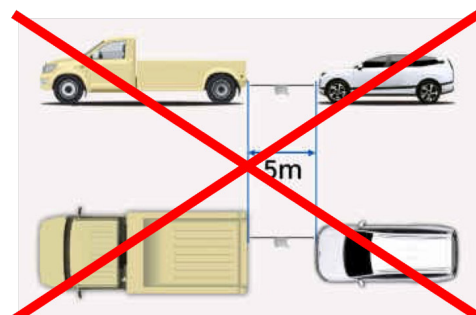
8. Towing/Transportation/Storage.

Towing service

If towing the IONIQ 9 is necessary, it is recommended to having it done by an authorised HYUNDAI dealer or a commercial tow-truck service. To prevent damage to the vehicle, proper lifting and towing procedures are necessary. 4WD vehicles must be towed with a wheel lift and dollies (A) or flatbed with all the wheels off the ground. The use of wheel dollies (A) or flatbed is recommended. If any of the loaded wheels or suspension components are damaged or the vehicle is towed with the front wheels on the ground, use a towing dolly (A) under the front wheels.

When the vehicle is being towed, take care that the engine is OFF or in ACC position, to prevent accidental deployment of undeployed airbags.

In the event of an accident, the high voltage system must be disabled. (refer to chapter 3.)



①



②



Do NOT

- Do not lift using the trailer hitch or body and chassis parts.
- Do not tow with sling-type equipment. Use wheel lift or flatbed equipment. **(1)**
- Do not tow the vehicle with the front wheels on the ground (forward or backward), as this may cause fire or damage to the motor. **(2)**

8. Towing/Transportation/Storage.

Storage of damaged vehicle with the damaged battery

- Drain fluids and water, then disconnect the negative (-) terminal of the 12 V battery before storing a damaged vehicle.
- In addition, remove the water inside the battery or vehicle, then remove the service plug from the high voltage battery before storing a damaged vehicle.
- Place the vehicle in an open space away from any structure, vehicle, or building.
- Then, keep on eye on the vehicle until the discharging procedures are completed.
- If the battery can be removed from the vehicle by moving the vehicle on the lift, remove and discharge the battery.
- If the battery can't be removed, set the water pool and pouring water until the entire battery is submerged.

Battery discharging in water pool



Water pool condition

- Tap water or pond water that does not contain salt
- Maintain this water level for at least 90 hours.
- Then, put salt into the water pool to make 3.5 % salt water.
- Wait for additional 48 hours in salt water.
- Drain the water and dry it.

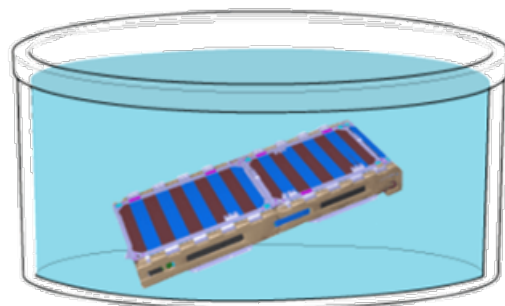


Battery discharging

- DO NOT USE SALT WATER for the first step.
- A large volume of flammable hydrogen gas can be generated in salt water due to electrolysis.
- After submerging the vehicle in pure water for at least 90 hours, put salt in the water pool.

Damaged Battery Storage

- To store the damaged battery safely, the battery must be discharged.
- If the battery can be removed from the vehicle, discharge the battery to prevent re-ignition.
- Prepare water that does not contain salt such as tap water or pond water.
- Leave the battery in water for at least 90 hours.
- Then, put salt in water to make 3.5% salt water.
- Wait for additional 48 hours in salt water.
- Take out the battery from the container and dry it.









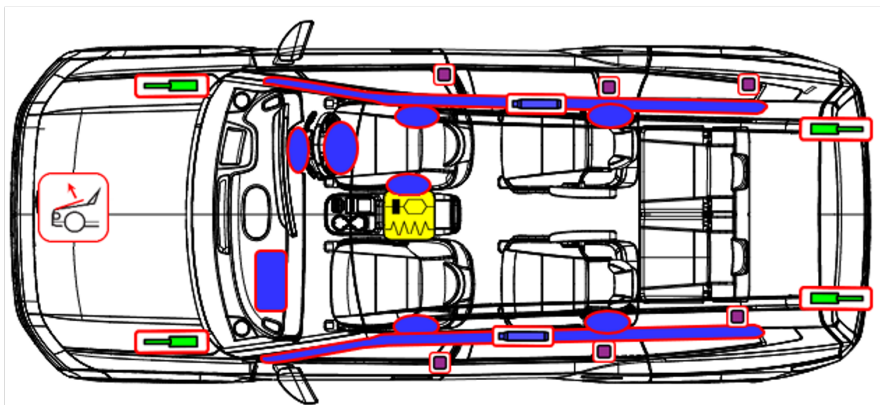
Safety Risk

- Extinguish all smoke, spark, flame around the vehicle.
- Electrolyte solution is a skin irritant.
- Do not touch or step on the spilled electrolyte.
- If electrolyte leak occurs, wear appropriate solvent resistant PPE and use soil, sand, or a dry cloth to clean up the spilled electrolyte. Be sure to adequately ventilate the area.

9. Important additional information.

The IONIQ 9 comes standard with airbags, seatbelt pre-tensioners and gas struts, see picture below. Some of the features are explain in this chapter.

Safety Equipment	
	Airbags
	Gas Inflator
	Pre-tensioner
	Gas strut
	SRS control unit
	Pedestrian protection active system

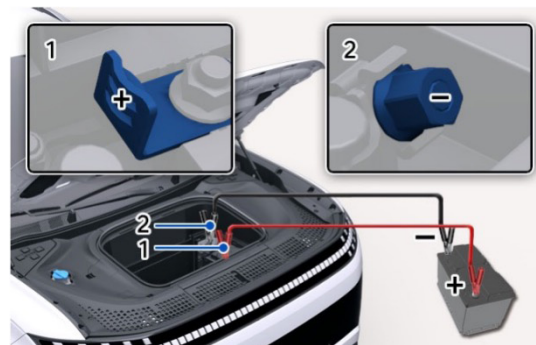


Emergency Starting

Jump Starting

Do not attempt to jump start the high voltage battery, as it cannot be jump started. In case of full discharge of the high voltage battery, the vehicle must be towed as mentioned on the previous page.

In case the 12V auxiliary battery is discharged, connect a starting device to the jump terminal in the engine room as you would any 12V battery (see image). Refer to the “Emergency Starting” section of the Owner’s Manual for additional information. Connect jumper cables in the order shown in the image and disconnect in reverse order.



Jump Starting Procedure

1. Make sure the booster battery is 12-Volt and that its negative terminal is grounded.
2. If the booster battery is in another vehicle, do not allow the vehicles to come in contact.
3. Turn off all unnecessary electrical loads.
4. Connect the jumper cables in the exact sequence shown in the illustration.

First connect one end of a jumper cable to the positive terminal of the discharged battery (1), then connect the other end to the positive terminal on the booster battery (2). Proceed to connect one end of the other jumper cable to the negative terminal of the booster battery (3), then the other end to a solid, stationary, metallic point away from the fuse box (4).



Risk

- Do not attempt to jump start the IONIQ 9 high voltage battery.
- Failure to follow these instructions will lead to serious bodily injury or death by electrical shock.

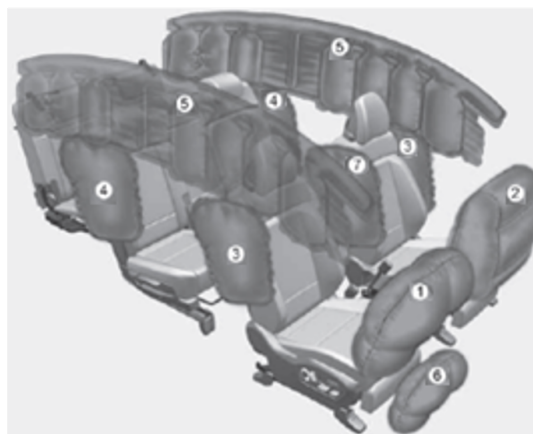
9. Important additional information.

Airbag system (SRS: Supplemental Restraint System)

Airbag

10 airbags are installed in the IONIQ 9, located in the areas shown in the image below. Before performing any emergency procedure, make sure the vehicle ignition switch is turned off and disconnect the negative connector from the 12V auxiliary battery (located in the left side motor compartment) to prevent accidental deployment of undeployed airbags.

Type	
1	Driver's front air bag
2	Passenger's front air bag
3	Side air bag 1 st row (left/ right)
4	Side air bag 2 nd row (left/ right)
5	Curtain air bag (left/ right)
6	Driver's knee airbag
7	Front centre side air bag only driver seat



* The actual air bags and seats in the vehicle may differ from the illustration.

Seat Belt Pre-tensioner

In the IONIQ 9, the driver's, front passenger's and rear (except centre seating position) seat belts are equipped with pre-tensioners. When the seat belt pre-tensioners are activated in a collision, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartment. These are normal operating conditions and are not hazardous. The seat belt pre-tensioner assembly mechanisms may become hot during activation and may need several minutes to cool down after they have been activated.



























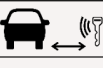





Undeployed Airbags

- Do not cut the red coloured part shown in the image above.
- Make sure the vehicle ignition switch is turned off, disconnect the negative cable from the 12V auxiliary battery (located in the left side of motor room) and wait 3 minutes or longer to allow the system to deactivate.



10. Explanation of pictograms used.

Tabel of used pictograms in this document.

	Airbag		Stored gas inflator		Bonnet
	General warning sign		Air-conditioning component		Boot
	Corrosives		Hazardous to the human health		Flammable
	Explosives		Acute toxicity		Environmental hazard
	Infrared Camera		Use water to extinguish the fire		Warning, Electricity
	Steering wheel, tilt control		Seat adjustment longitudinal		Seat height adjustment
	Battery pack, high-voltage		Battery pack, low-voltage		Use ABC powder to extinguish the fire
	High-voltage component		SRS control unit		Cable Cut
	Remove smart key		Zone requiring special attention		Seat belt pretensioner
	Electric Vehicle				Gas strut / Preloaded spring
	Pedestrian protection active system				

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