

IONIQ 5

Emergency Response Guide

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 safety plug while standing in 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 ele ctrical system is shut off or disabled.

Disconnect the battery negative cable and wait for at least 5 minutes before beginning work.

Failure to follow any of these instruction may result in serious injury or death from accidental deployment of the airbag system.

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Initial Response: Identify, Immobilize and Disable

The following procedures should be used whenever you are dealing with a IONIQ 5 at an emergency scene. However, all operations should be consistent with your department's standard operating procedures, guidelines, and any applicable laws. When an EV 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 jewelry, including watches and rings.

Identify

The IONIQ 5 is an electric vehicle. Emergency responders should respond to emergency scenarios involving the IONIQ 5 accordingly, exercising extreme care and caution to avoid contact with the high voltage system within the vehicle.



1.1 Identifying a Hyundai IONIQ 5

"IONIQ 5" on tail gate

- The HYUNDAI IONIQ 5 can be easily identified by the Exterior design and IONIQ 5 logo on the tail gate.
- The IONIQ 5 logo may be missing or hidden after a crash due to damage to the vehicle.
 Always be sure to utilize additional methods of identification before determining that the vehicle is not an electric car.



Charging port

The charging port# is located on the rear right side.

*Note: The doors must be un-locked to open the charge port door.

How to open the charging port





Push the charging door where the icon is located to open

Unlock charging door in emergency

Put your finger between the charge door and the vehicle body and then lift the charge door.

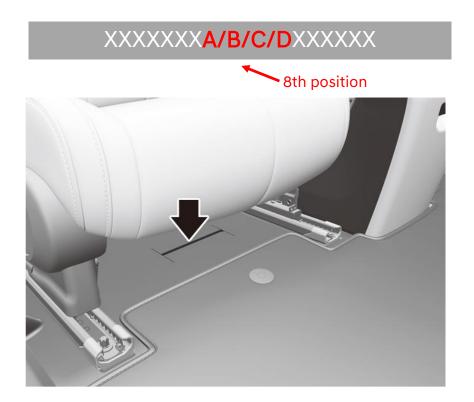
1.1 Identifying a Hyundai IONIQ 5

VIN label

The VIN (Vehicle Identification Number) identifies an electric car with a "A" or "B" or "C" or "D" displayed in the 8th position, as shown in the below picture.

The VIN can be found:

- 1) Underneath the front driver seat,
- 2) On the vehicle certification label attached to the driver's side (or passenger) center pillar.



1.1 Identifying a Hyundai IONIQ 5

Motor compartment and underside

IONIQ 5 has a plastic cover with "EV" clearly shown on it and "IONIQ 5" on tail gate.

Additionally, there are orange colored high-voltage electrical cables in the motor compartment and underside.









2. Immobilization / stabilization / lifting

2.1 Immobilization

The next step is to immobilize the vehicle to prevent any accidental movement that can endanger response personnel or civilians. When the IONIQ 5 is damaged in a crash, the vehicle may appear to be shut off as there is no engine sounds.

When the "READY" mode light is illuminated on the Instrument Panel, the vehicle can move silently using the electric motor. 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 immobilize the vehicle in the following manner.



* The actual image of vehicle may differ from the illustration

2.2 Vehicle stabilization

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



3. Disable direct hazards / safety regulations

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

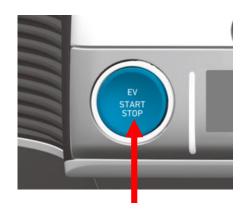


3.1 Disabling the system - Smart Key System and "POWER" START/STOP Button

- 1. Confirm the status of the READY light on the instrument panel. If the READY light is illuminated, the vehicle is ON.
 - a) If the READY light is NOT illuminated, the vehicle is off. Do not push the "POWER" START/STOP button because the vehicle may start (go into READY mode).
 - b) To turn OFF the system, press the 'P' (Park) button, and press the POWER button.



Press park (P) position



"POWER" START/STOP Button

3. Disable direct hazards / safety regulations

Without depressing the brake pedal

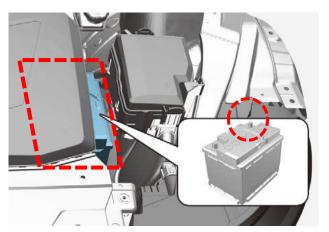
Pressing POWER button	Button position/LED	Vehicle condition
One time	ACC/ON	Electrical accessories are operational.
Two times	ON/ON	The warning lights can be checked before the vehicle is started.
Three times	OFF	Off

While depressing the brake pedal

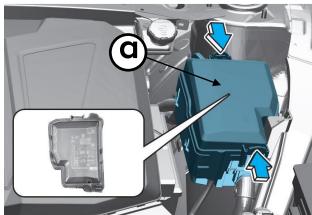
Pressing POWER button	Button position/LED	Vehicle condition
One time	-	Ready to drive

- 2. If necessary, lower the windows, unlock the doors and open the tail gate as required, before disconnecting the 12V battery. Once the 12V battery is disconnected, power controls will not operate. (Refer to below "4. a)" for 12V battery disconnection)
- 3. Before disconnecting the 12V battery, remove the Smart Key at least 2 meters away from the vehicle to prevent accidental restart.
- 4. Follow the procedure below to disable the high voltage battery:

a) Disconnect the 12V auxiliary battery negative (-) terminal.

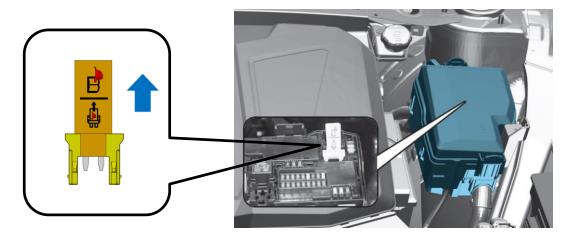


b) Remove the junction block upper cover @ in the PE room



3. Disable direct hazards / safety regulations

c) Disconnect the high voltage cut-off switch



High voltage cut-off switch

^{**} wait for 5 minutes after pull the breaker to discharge the system



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, and/or shorted to the vehicle chassis.

Failure to follow these instructions will lead to serious bodily injury or death by electrocution.

4. Access to the occupants

4.1 Extraction operations

The IONIQ 5 is an electric vehicle. Because of the high voltage components contained therein first responders should pay special attention when they extract occupants in the car. Before performing any extraction operations, the first responders should "Identify, Immobilize and Disable" the vehicle as discussed in sections on emergency procedures.

4.2 Vehicle stabilization

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



4.3 Extraction tools and procedure

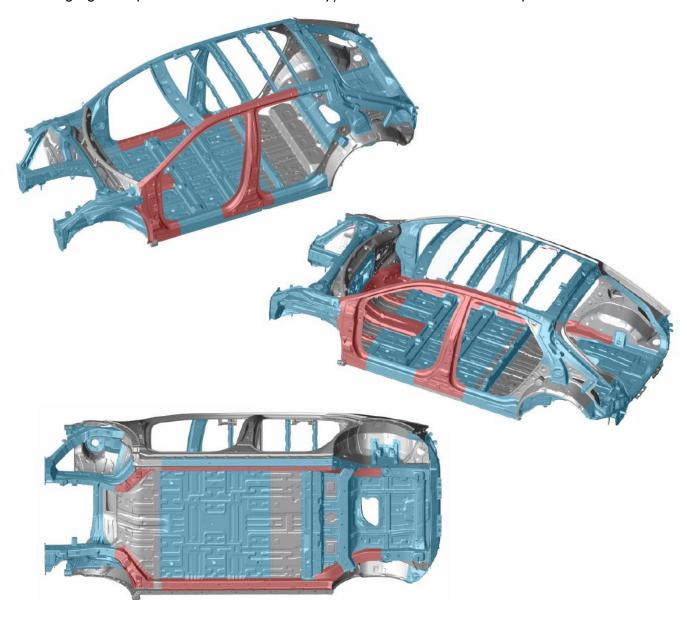
When responding to an incident involving a IONIQ 5, we recommend that the first responders follow their organization's standard operating procedures for dealing with vehicle emergencies.

When the first responders cut the vehicle, they should always pay special attention to the airbag system, orange colored high voltage cables and other high voltage components so that the parts are not damaged and to prevent a risk of explosion.

4. Access to the occupants

4.4 Location of ultra-high strength steel

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

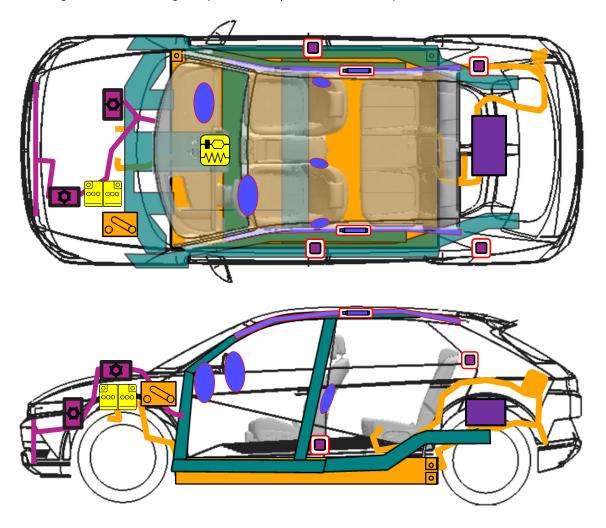


Mild steel
High strength steel
Ultra-high strength steel

4. Access to the occupants

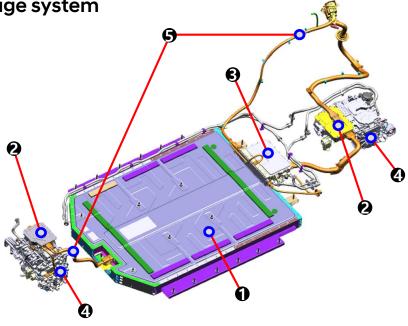
4.5 Occupants rescue guide

When dealing with the emergency situation, check the components as below.



Supplemental Restraint System Control Module (SRSCM)	Airbag	Airbag gas inflators
High voltage cable	12V battery	Air-conditioning line
High voltage disconnect	OBC (On - Board Charger)	Ultra-high strength steel
High voltage battery	Air-conditioning component	Seat belt pretensioner

5.1 High voltage system

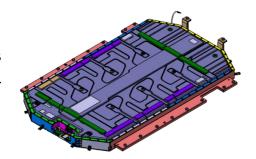


1	High v	oltage battery	Supplies electric energy to traction motor and stores generated electric energy.
2	High-voltage Junction box (FRT, RR)		It supplies electricity from battery to the inverter, LDC, air conditioner compressor, etc.
3	(0	ICCU BC + LDC)	Integrated Charging Control Unit (OBC + LDC) OBC (On-Board Charger) : Battery charging equipment (AC→DC) LDC (Low Voltage DC-DC Converter) : Charge 12V auxiliary battery
		Motor	When current flows through the coil, it generates a rotating magnetic field and generates motor torque.
4	Drive system	EV transmission	Increases Motor Torque and increased Torque is transferred to the wheels.
		Inverter	DC → AC (from battery to traction motor) AC → DC (charge using regenerative braking)
5	High-voltage cable		The high-voltage cabling is orange per the SAE standard.

5.1 High voltage system

High voltage battery

The HV Lithium ion polymer battery supplies and stores electric energy, to the traction motor, and is located under the IONIQ 5 chassis.



12V auxiliary battery

The 12V auxiliary battery is located in the left side of the electric motor room, and powers all of the vehicle's standard electronics like radio, lights, door locks, power windows, etc.



*** Specifications**

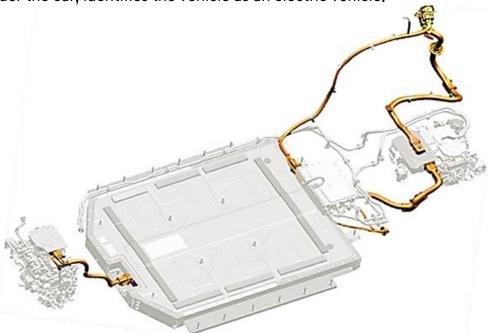
DriveTrain 2WD 2WD Max, Power 107 kW 168 kW Max, Torque 350 Nm 350 Nm Battery Type Lithium-lon Power Output 195 kW Energy Density 156 Wh/kg On-board Charger (OBC) Max, Capacity (kW) 11.0 kW (three-phrase) Performance (Single Speed Reduction Gear) Max Speed 185 km/h Acceleration 0 - 100 km/h 9.5 sec 7.3 sec CO2 Emissions / Efficiency / Range 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle) Energy Consumption 16,7kWh / 100km 17,0kWh / 10	4WD				
Max, Torque 350 Nm 350 Nm Battery Type Lithium-Ion Power Output 195 kW Energy Density 156 Wh/kg On-board Charger (OBC) Max, Capacity (kW) 11.0 kW (three-phrase) Performance (Single Speed Reduction Gear) Max Speed 185 km/h Acceleration 0 - 100 km/h 9.5 sec 7.3 sec CO2 Emissions / Efficiency / Range CO2 Emissions 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/kr Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle)					
Type Lithium-lon Power Output 195 kW Energy Density 156 Wh/kg On-board Charger (OBC) Max, Capacity (kW) 11,0 kW (three-phrase) Performance (Single Speed Reduction Gear) Max Speed 185 km/h Acceleration 0 - 100 km/h 9,5 sec 7,3 sec CO2 Emissions / Efficiency / Range CO2 Emissions 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/kr Driving Range* 384 km (WLTP cycle) (WLTP cycle)	239 kW (74 + 165)				
Type Lithium-Ion Power Output 195 kW Energy Density 156 Wh/kg On-board Charger (OBC) Max, Capacity (kW) 11,0 kW (three-phrase) Performance (Single Speed Reduction Gear) Max Speed 185 km/h Acceleration 0 - 100 km/h 9.5 sec 7.3 sec CO2 Emissions / Efficiency / Range CO2 Emissions 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* (WLTP cycle) (WLTP cycle)	605 Nm (255 + 350)				
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Energy Density 156 Wh/kg On-board Charger (OBC) 11.0 kW (three-phrase) Max, Capacity (kW) 11.0 kW (three-phrase) Performance (Single Speed Reduction Gear) 185 km/h Max Speed 185 km/h Acceleration 0 - 100 km/h 9.5 sec 7.3 sec CO2 Emissions / Efficiency / Range 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle)	Lithium-lon				
On-board Charger (OBC) Max, Capacity (kW) Performance (Single Speed Reduction Gear) Max Speed 185 km/h Acceleration 0 - 100 km/h Accelerations / Efficiency / Range CO2 Emissions 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* (WLTP cycle)	272 kW				
Max, Capacity (kW) 11,0 kW (three-phrase) Performance (Single Speed Reduction Gear) Max Speed 185 km/h Acceleration 0 - 100 km/h 9.5 sec 7.3 sec CO2 Emissions / Efficiency / Range 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle)	162 Wh/kg				
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Max Speed 185 km/h Acceleration 0 - 100 km/h 9.5 sec 7.3 sec CO2 Emissions / Efficiency / Range 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/kr Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle)	11.0 kW (three-phrase)				
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CO2 Emissions / Efficiency / Range CO2 Emissions 67 g/km 68 g/km Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle)					
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Efficiency (Wh/km) 167 Wh/km 170 Wh/km Driving Range* 384 km (WLTP cycle) 507 km (WLTP cycle)	CO2 Emissions / Efficiency / Range				
Driving Range* 384 km 507 km (WLTP cycle) (WLTP cycle)	77 g/km				
Driving Range* (WLTP cycle) (WLTP cycle)	m 191 Wh/km				
Energy Consumption 16,7kWh / 100km 17.0kWh / 10	454 km le) (WLTP cycle)				
-, -	00km 19.1kWh / 100km				
VES Banding A1					
Charge Time					
Standard 11kW OBC (10 - 100%) 4h 59min 7 h 20min	min 7h 20 min				
50kW (10-80%) 47 min 1h 2m	nin 1h 2min				
Quick Charge 350 kW 18 min 18 mi	in 18 min				
Measurements					
Tread (Front) 1,638 mm (19" Wheel)	1,628 mm (20"Wheel)				
Tread (Rear) 1,647 mm (19" Wheel)	1,637 mm (20" Wheel)				
Min. Turning Radius (Tyre) 5.99m	5 <u>.</u> 99m				
Weight					
Curb Weight (kg) 1830 - 1,910 kg 1,935-2,0	2,045 - 2,125 kg				
Gross vehicle Weight (kg) 2,370 kg 2,450	kg 2,560 kg				
Boot Capacity (L) 527 L	527 L				

^{*}Range according to WLTP cycle. Driving range may vary slightly depending on road conditions, your driving style and temperature. It is also dependent on the types of tyres equipped.

5.2 High voltage orange cabling

The High Voltage cabling is orange, per Society of Automotive Engineers (SAE) standards. Cables run under the floor of the vehicle and connect the High Voltage Battery to the ICCU, Motor, OBC, A/C compressor and other High Voltage components located towards the front and rear of the vehicle.

The presence of orange cables under the hood, in the under-floor battery compartment, or HV cables under the car, identifies the vehicle as an electric vehicle.





CAUTION

- Never cut or disconnect the high voltage orange cabling and connectors without first disabling the HV system. (refer to page 7).
- 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, and; or shorted to the vehicle chassis.

Failure to follow these instructions will lead to serious bodily injury or death by electrical shock.

6.1 Firefighting operations

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

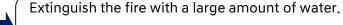
- Lithium-ion Polymer batteries contain gel electrolyte that can vent, ignite, and produce sparks when subjected to temperatures above 150C.
- · Vehicle may burn rapidly with a flare-burning effect.
- Even after the high-voltage battery fire appears to have been extinguished, renewed or delayed fire can occur.
 - Use a thermal imaging camera to ensure the high 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 voltage battery, always store vehicle in an open area with no exposures within 16m.
- A burning battery could release hydrogen fluoride, carbon monoxide, and carbon dioxide gasses. Use approved full-face self-contained breathing apparatus (SCBA) with full protective gear. Even if the high-voltage battery pack is not directly involved in a vehicle fire, approach the vehicle very carefully.

6.2 Extinguishers

- Small fires that do not involve the high 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 voltage battery with small amounts of water as this can result in electrocution. Fires that involve the high voltage battery should be extinguished using large amounts of water(aprox. 10,000 liter) to cool the high 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.

6.3 How to deal with the situation

Fire



Don't use seawater or salt water. It can generate the toxic vapor or cause the reignition.

Damaged battery or Fluid leak* Disconnecting 12V Battery (-) terminal,

Disabling the high voltage system,

Neutralize the battery by applying a large volume of water, (It doesn't discharge the battery)



*If electrolyte solution leakage, or any damage to the H.V battery casing is observed

6.3.1 Vehicle fire

- Use a large volume of water (approx. 10,000 liter). The water must cool down the battery.
- If water is put into the high voltage battery casing, it will be better to cool down the battery.

 (But never attempt to penetrate the HV battery or its casing to apply water.)



 If there are hole that made by accident or fire on battery case, you should put water through that hole.



**Reference: the article from Netherlands

If it is possible, Soaking the vehicle in the container filled with water can be a effective way to extinguish the fire.

6.3.2 High 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 neutralize the battery by applying a large volume of water to the battery pack while wearing appropriate Personal Protective Equipment (PPE). The neutralization process helps stabilize 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.



Electrolyte irritation

The high 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 a soap.
- Electrolyte liquid or fumes coming into contact with water will create vapors in the air from oxidization. These vapors may irritate skin and eyes. In the event of contact with vapors, 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.

6.4 High voltage battery re-ignition by stranded energy

Damaged cells in the high voltage battery can experience thermal runaway* and reignition.

To prevent reignition, the first responder and second responder need to be aware of the risk of stranded energy* which remains in the damaged cells and lead to reignition.

*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. That stranded energy can cause a high voltage battery to reignite multiple times after firefighters a fire.

How to prevent reignition (Mitigating stranded energy risk)

- Use a thermal imaging camera to ensure the high voltage battery is completely cooled before leaving the incident.
- Always advise second responders that there is a risk of the battery re-igniting.
- 1. 12V battery (-) terminal disconnection (To depower battery management system)
- 2. For High voltage shut off, refer to page 7-9.
- 3. Discharging the high voltage battery, refer to page 23-24.

7. In case of submersion

7.1 Submerged or partially submerged vehicles

Some emergency responses can involve a submerged vehicle. IONIQ 5 that is submerged 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 of 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 one of the methods described in page 7-9 to disable the vehicle.

Then, discharge the battery by referring to page 23-24.



CAUTION

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

Failure to follow these instructions can lead to death or serious injury by electrocution.

8. Towing / transportation / storage

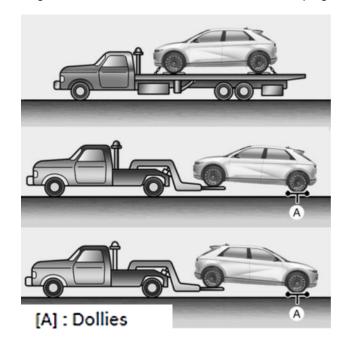
8.1 Towing and transportation

In the event of an accident, the high voltage system must be disabled. The safety plug must be removed from the high voltage battery according to one of the methods described in page

8-12 to disable the vehicle.

Towing the IONIQ 5 Vehicle is not different from towing a conventional electric vehicle. If emergency towing is necessary, we recommend having it done by an authorized Hyundai dealer or a commercial tow-truck service. Proper lifting and towing procedures are necessary to prevent damage to the vehicle.

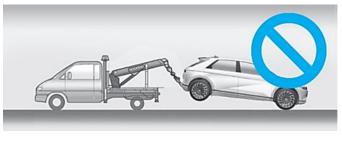
The use of wheel dollies or flatbed is recommended.

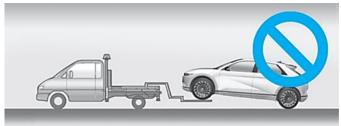




CAUTION

- Do not tow with sling-type equipment.
 Use wheel lift or flatbed equipment.
- Never tow the vehicle with the front wheels on the ground (forward or backward), as this may cause fire or damage to the motor.





8. Towing / transportation / storage

8.2 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 interlock connector 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.
 - #Water pool condition: tap water or pond water that does not contain salt
- Maintain this water level for at least 90 hours.
- Put salt into the water pool to make 3.5% salt water.
- Wait for additional 48 hours in salt water.
- Then, drain the water by removing the BMU service cover (A) under side of battery pack.

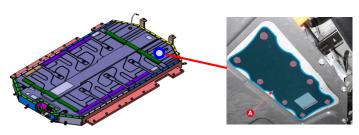


CAUTION

- · Do not use salt water for the first step.
- A large volume of flammable gas can be generated in salt water due to electrolysis.
- After submerging the vehicle in pure water for at least 90hours, put salt in the water pool.



Battery discharging



BMS ECU service cover (A)

8. Towing / transportation / storage

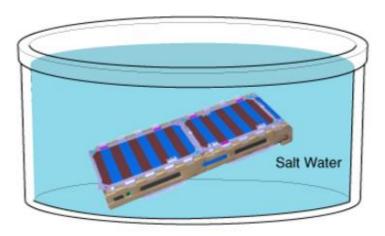
8.3 Battery storage

- To store the damaged battery safely, the battery must be discharged.
- If the battery can be removed from the vehicle, using 3.5% salt water, discharge the battery.



CAUTION

- 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.
- Prepare water that does not contain salt such as tap or pond water.
- Leave the battery in water 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.
- Then take out the battery from the water pool and drain and dry it.



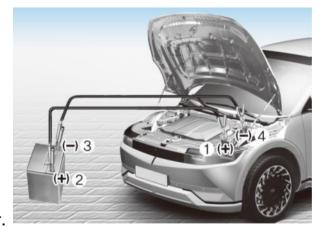
9.1 Emergency starting

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 motor 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.



\triangle

CAUTION

- Do not attempt to jump start the IONIQ 5 high voltage battery.
- Failure to follow these instructions will lead to serious bodily injury or death by electrical shock,

Jump starting procedure

- 1. Make sure the booster battery is 12V 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.

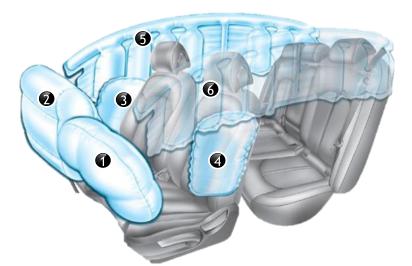
 First connect one end of a jumper cable to the positive terminal of the discharged battery
 (1), then connect the other end to the positive terminal on the booster battery (2).

 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).

9.2 Airbag system (SRS: Supplemental Restraint System)

Airbag

Six airbags are installed in the IONIQ 5, 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.



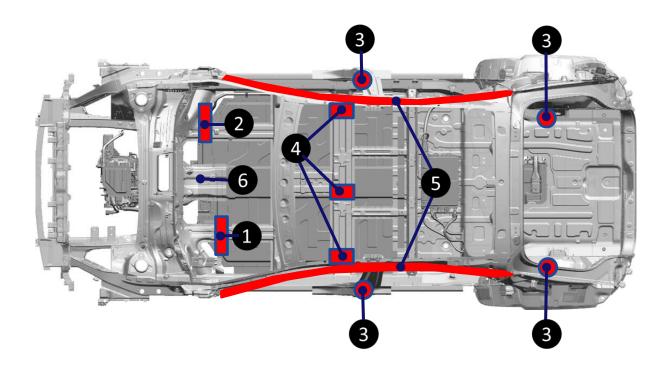
- (1) Driver front airbag
- (2) Passenger front airbag
- (3) Passenger Side airbag
- (4) Driver Side airbag
- (5) Passenger Curtain airbag
- (6) Driver Curtain airbag

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

Seat belt pretensioner

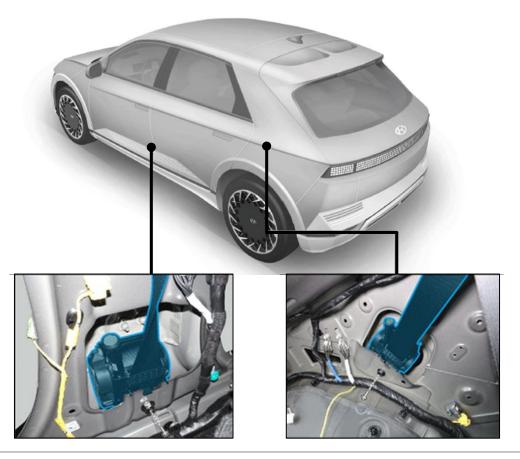
In the IONIQ 5, the driver's and front passenger's seat belts are equipped with pretensioners. When the seat belt pretensioners are activated in a collision, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartment. These are normal operating conditions and are not hazardous. The seat belt pretensioner assembly mechanisms may become hot during activation and may need several minutes to cool down after they have been activated.

Airbag system components



- 1. Driver's front Airbag (DAB)
- 2. Passenger's front Airbag (PAB)
- 3. Seat Belt Pretensioner (BPT)
- 4. Side Airbag (SAB)
- 5. Curtain Airbag (CAB)
- 6. Supplemental Restraint System Control Module(SRSCM)

Seat belt system



A CAUTION

Undeployed airbags

To avoid injuries caused by accidental deployment of undeployed airbags

- Do not cut the red colored 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.

Failure to follow any of these instructions may result in serious injury or death from accidental deployment of the airbag system.

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