



Movement that inspires

Emergency Response Guide



EV5

Introduction

The ERG (Emergency Response Guide) provided by Kia 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 Kia 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 Kia EV5 vehicle 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

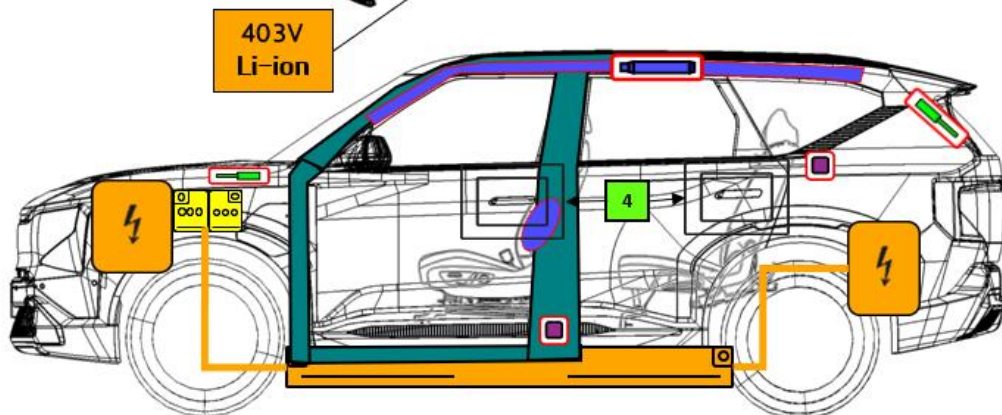
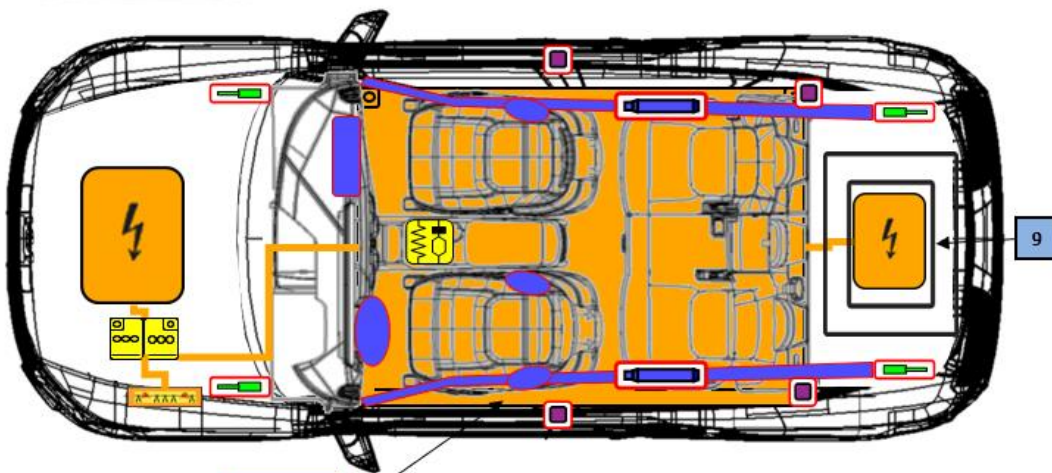
0	Rescue Sheet	4
1	Identification / Recognition	6
2	Immobilization / Stabilization / Lifting	10
3	Disable Direct Hazards / Safety Regulations	11
4	Access to the Occupants	15
5	Stored Energy / Liquid / Gases / Solids	18
6	In Case of Fire	20
7	In Case of Submersion	22
8	Towing / Transportation / Storage	23
9	Important Additional Information	25
10	Explanation of pictograms used	27



KIA EV5

SUV, 5doors

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

ID No.

KNA-OV1-RS-B-5-202508

Version No

01

Version date:

2025

Page

1 of 4

1. Identification / Recognition

Initial Response: Identify, Immobilize and Disable

The following procedures should be used whenever you are dealing with a EV5 at an emergency scene. However, all operations should be consistent with your department's standard operating procedures, guidelines, and any applicable laws. When EV5 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), including high voltage safety gloves and boots. Remove all metallic jewelry, including watches and rings.

Dimensions:

	Items	mm
l	Overall length	4,610
w	Overall width	1,875
h	Overall height	1,675



Identify

The EV5 is an electric vehicle. Emergency responders should respond to emergency scenarios involving the EV5 accordingly, exercising extreme care and caution to avoid contact with the high voltage system within the vehicle.

1. Identification / Recognition

Identifying a KIA EV5



Vehicle Package (*GT-Line,GT)

Front and rear view of KIA EV5

The Brand Logo placed on the hood and on the tailgate

Model name on Tailgate “EV5”

The model name “EV5” is placed in the left-bottom of the tailgate.

The font of the trim emblem is placed in the right-bottom of the tailgate.

Propulsion Logo on Tailgate

The car name emblem 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 front right side.

Note that the doors must be unlocked to open the charge port door.

How to open the charging port

Push the charging door open/close button (1) on the instrument panel.

Push the charging door open pattern (2) located at charging door outer cover to open.

Push the charging door close button (3) located at inner part of the charging door to close.

The charging door also can be opened or closed by using voice recognition.



1. Identification / Recognition

Charge Status Indicator

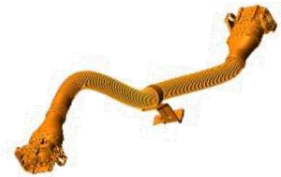
The charge indicator lamp is located in the front of the vehicle inside the charging door. The charge indicator provides real-time information on the current state of charge.

1. When you plug in the charging connector, a green light illuminates.
2. If scheduled charging is set and the charger is connected for charging, The green light turns to amber light to indicate that scheduled charging is prepared.
3. As the charging started, a green light blinks, showing the charging is progressing.
4. When the battery is fully charged, the green light stops blinking to indicate that the battery is fully charged.
5. As the red light illuminates, stop the charging and check the cause of the unknown problem.



High Voltage Cable (Orange color)

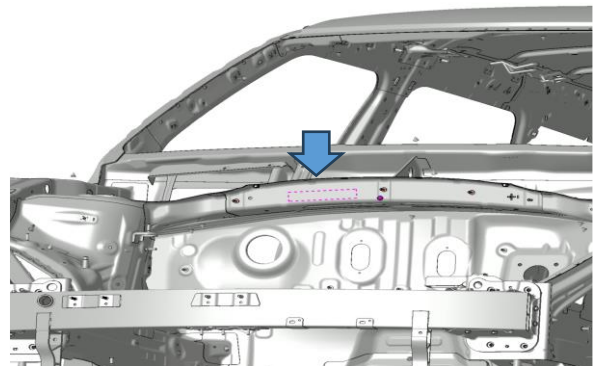
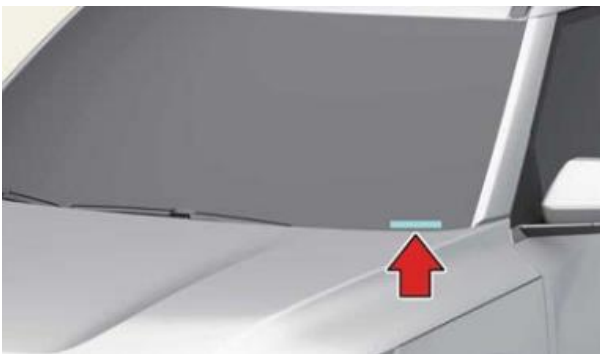
When opening the hood, the orange color cable identifies a HV-System, Additionally, the orange color cables run under the floor if the vehicle.



Vehicle Identification Number (VIN) Label

The Vehicle Identification Number (VIN) is the number used in registering your vehicle and in all legal matters pertaining to its ownership, etc.

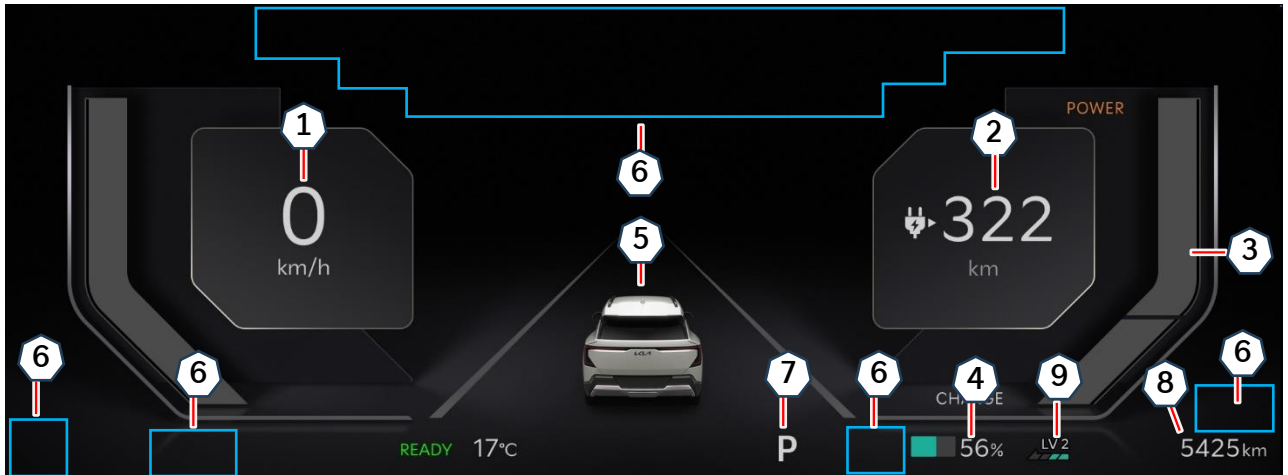
- Written on a plate attached to the top left of the instrument panel.
- The Vehicle Identification Number (VIN) checked on the motor room as shown.



1. Identification / Recognition

Instrument Cluster

The EV5 Cluster Instrument Panel displays EV specific features such as high voltage battery SOC (State of Charge) as below.



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

2. Immobilisation / Stabilization / Lifting

Immobilisation

The next step is to immobilize 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 immobilize the vehicle in the following manner.



Chock the wheels



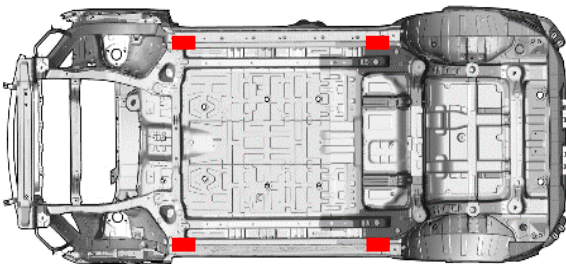
Set the Electronic Parking Brake (EPB)



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

Stabilization

Use standard stabilization (lift) points, as shown beside. 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.

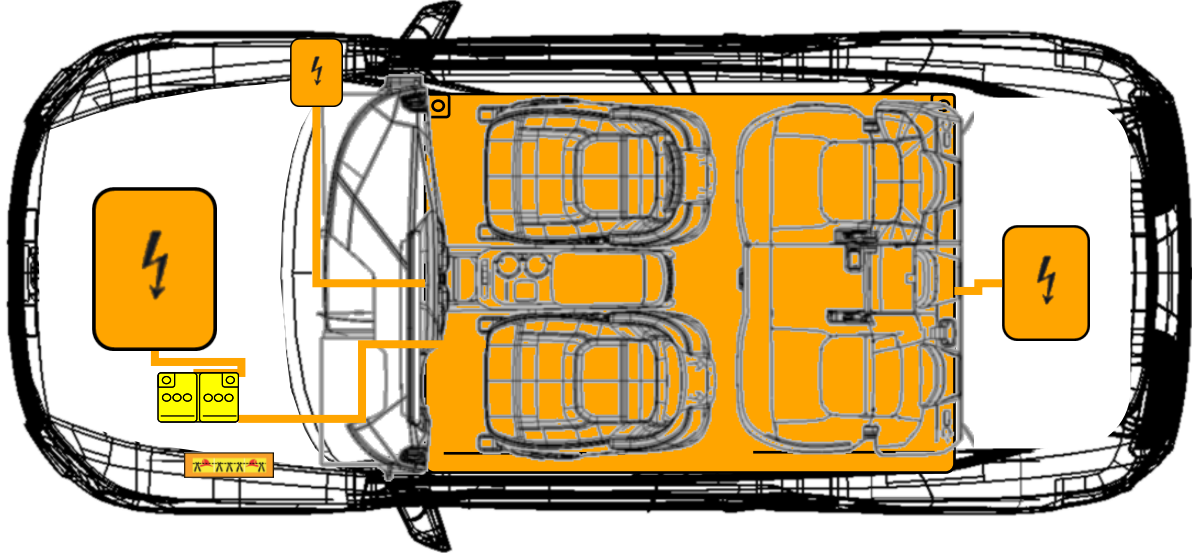


Lifting

- 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 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 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 10).
- 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.

Unlock charging connector in emergency

If the charging cable does not detach due to battery discharge and failure of the electric wires, open the hood.

Description	Picture
Slightly pull the emergency cable at the left side of the front trunk	



Charging cable

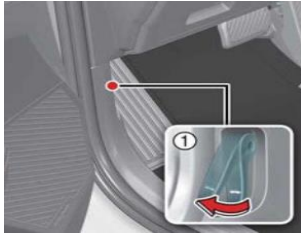
- AC charging cable
- (1)Charging plug (charger) / (2)Charging connector (vehicle)

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 completely removable take care not to reconnect the HV-System. For longer work on the vehicle the 12V – Battery System in the engine compartment should be additional disconnect by following the procedure on the next page.



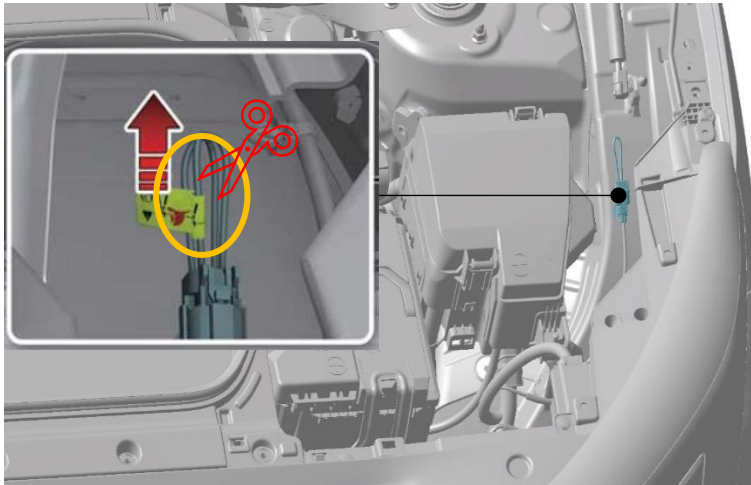
Pull the hood release lever to unlatch the hood.



Go to the front of the vehicle, raise the hood slightly, push up the secondary hood release lever (1) inside of the hood center and lift the hood (2).



From the point of view the Fusebox is located on the right side shown in the image



Open the cover of the box and find the "Service Interlock"

Disconnect the "Service Interlock" connection (orange circle)

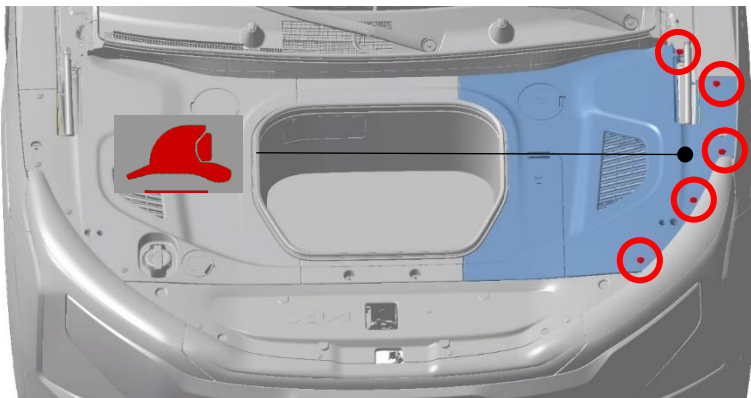


In emergency cut the cable at the marking



※ Service Interlock location and PE Room cover opening method

- Service interlock is below the PE Room cover top firefighter symbol in the image below.



PE Room cover fixed fastener (5ea)

Use tools like screwdriver to remove the PE Room cover fixed fastener

After removing fastener, open the PE Room cover and Service Interlock can be found

3. Disable Direct Hazards / Safety Regulations

Disabling of high voltage electrical system



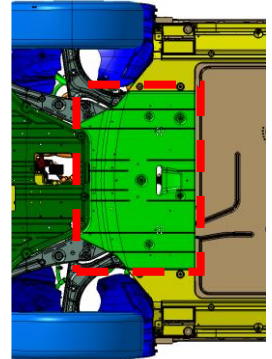
Via HV – Connector

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

1. Lift the car to approach under floor where battery located

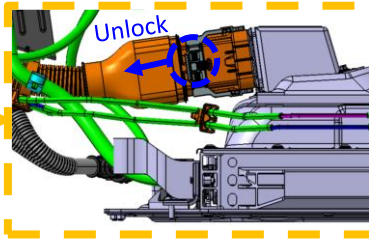
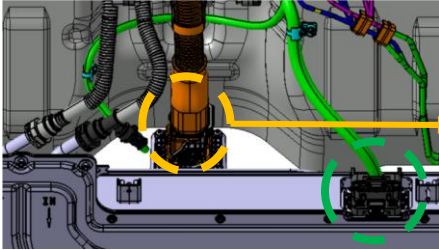


2. Remove the PE Room rear under cover .



FRT

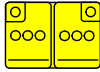
3. Disconnect the High voltage (HV) and Low voltage (LV) connector.



Before disconnect HV connector CPA(double lock) to be unlocked. CPA unlock does not necessary any tool and slide blue arrow direction.

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 EV5 by using the „Engine Start/ Stop“ button. The different modi with and without depressing the brake pedal are explained below.



Without depressing the brake pedal	
Pressing „Start/Stop“	Vehicle condition
One time	The warning lights can be checked before the vehicle is started
Two 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 it has to be sure that the vehicle engine is off. Is the “READY” light, on the instrument panel, illuminated, the vehicle is “ON”. In this case turn “OFF” the system by press 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 procedure is prefer:



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



Electrocution Risk

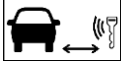
- Before engaging in any emergency response procedures, ensure the vehicle is disabled and wait 5 minutes to allow the capacitor in the high voltage system to discharge to avoid electrocution.
- Exposed cables or wires may be visible inside or outside the vehicle. Never touch the metal chassis wires,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

3. Disable Direct Hazards / Safety Regulations

Via IG (Ignition) Fuse Removal

To disable the 12V battery system it has to be sure that the vehicle engine is off. Is the “READY” light, on the instrument panel, illuminated, the vehicle is “ON”. In this case turn “OFF” the system by press 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.

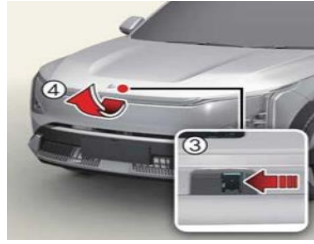


Before disconnecting the 12V battery, remove the smart key at least 2 meters away from the vehicle to prevent accidental restart.

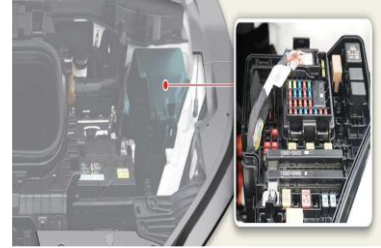
To remove the IG Fuse follow procedure is prefer:



Pull the hood release lever to unlatch the hood.



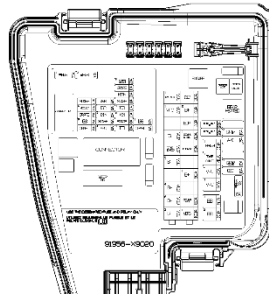
Go to the front of the vehicle, raise the hood slightly, push up the secondary hood release lever (1) inside of the hood center and lift the hood (2).



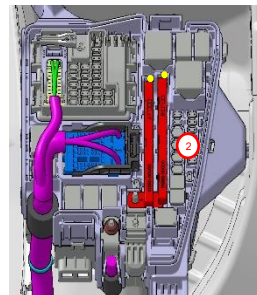
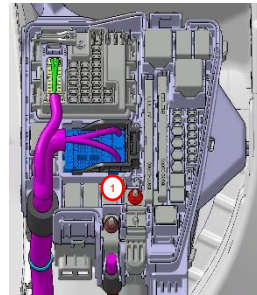
From the point of view the fusebox is located on the right side



Remove the PE 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”



(1) Use the removal tool to unscrew multi fuse nut.

(2) Pull out the multi fuse containing IG1 and IG2.



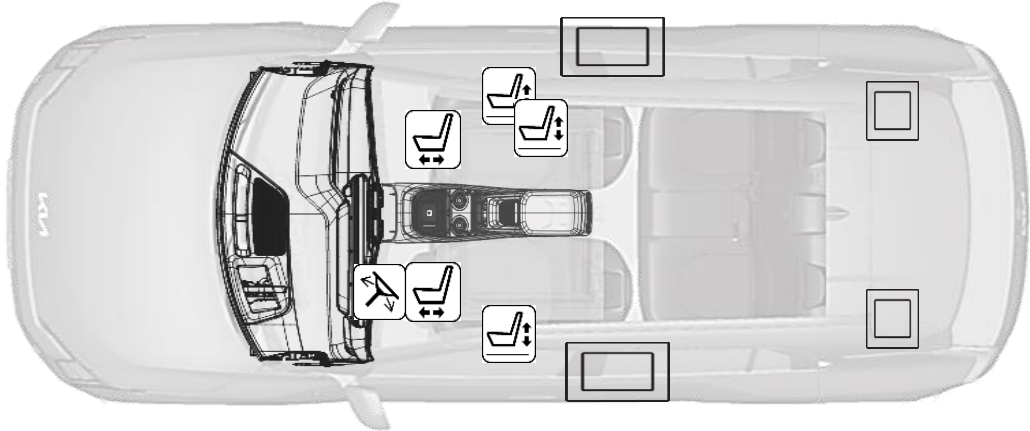
Safety Risk

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 EV5 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. 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 or electrocution.

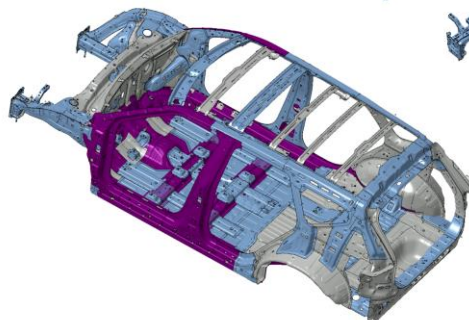
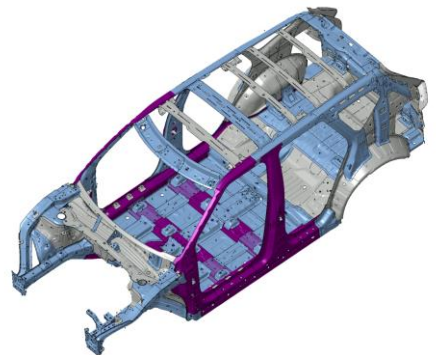
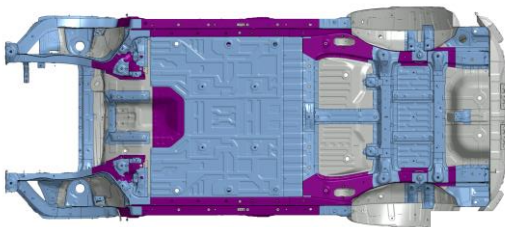


Extraction Tools and Procedure

When responding to an incident involving the EV5, we recommend that the first responders follow their organization'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 colored in blue and ultra-high strength steel is used in the purple colored areas. Depending on the tools used, ultra-high strength steel can be challenging or impossible to cut. If necessary, use a workaround technique.



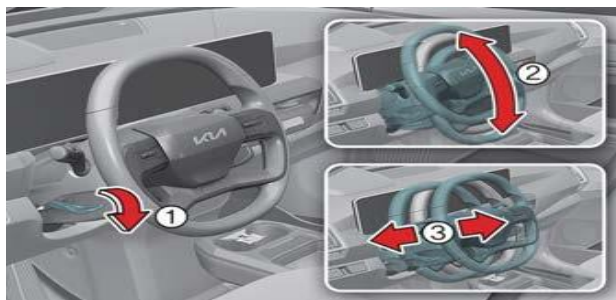
Color	Steel type
	Mild
	High-strength
	Ultra-high-strength

4. Access to the Occupants

Steering wheel adjustment

The KIA EV5 is equipped with manual steering wheel adjustment. For better access to the occupant after accident, the steering wheel can be moved as follow.

Manual adjustment



Pull down the lock-release lever (1).

Adjust the steering wheel angle (2) and distance forward/back (3).

Pull up the lock-release lever up to lock the steering wheel in place

Door and tailgate unlocking & opening

Mechanical unlock



Press the front part of the door handle to pull the rear part out.

Press the hook from the inner part of door handle with a mechanical key, then pull out the cover from the door handle.

Inside the vehicle



If the inner “**Driver**” door handle is pulled, the door is unlocked and opened.

All other inner doors handles needs to pulled once to unlocked. A second pull will open the door

Central door lock



Pressing button (2) on the switch, all vehicle doors and tailgate are unlocked



Boot opening



Insert the key into the keyhole, and Rotate clockwise to lock and reverse to unlock

1. Normal opening : Press the outside handle switch at the bottom of outer tailgate to open the tailgate and pull up the tailgate.
2. Emergency exit : Remove the cover at the bottom of the tailgate. Slide the latch in the direction of the arrow to unlock the tailgate. Push the tailgate to open.

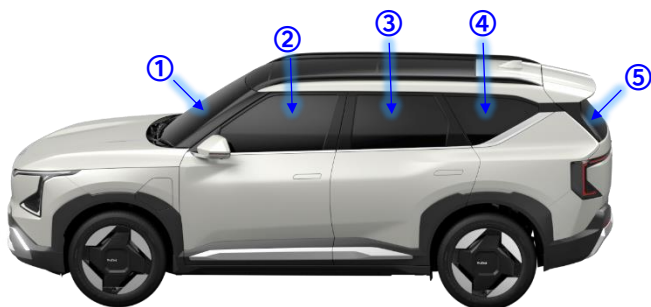


Power tailgate opening : Press the power tailgate open/close button inside the vehicle and smart key for 1 second.

4. Access to the Occupants

Windows and Glass

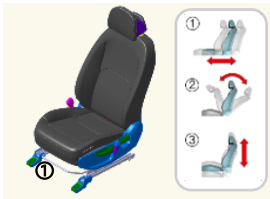
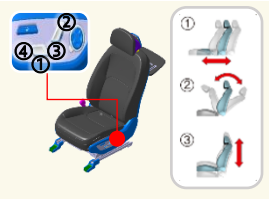
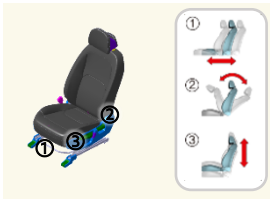
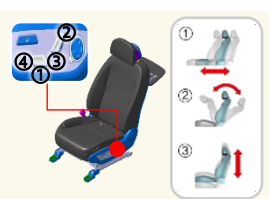
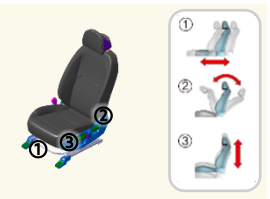
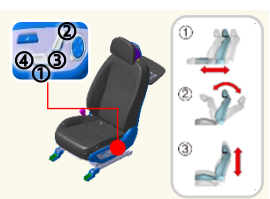
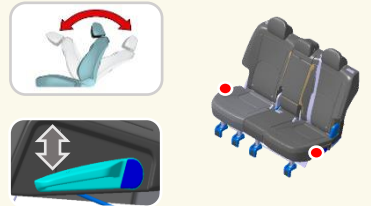
The EV5 is equipped with power windows. Each door has his own switch to control the door's window. The driver door has central power window lock button which can block and unblock all operation of the rear passenger windows. The power windows operate for about 3 minutes after the Engine Start/Stop button is in the ACC or OFF position. The EV5 can optional with sunroof window.



Glasstype	
1	Laminated
2	Tempered (Opt. Laminated)
3	Tempered
4	Tempered
5	Tempered

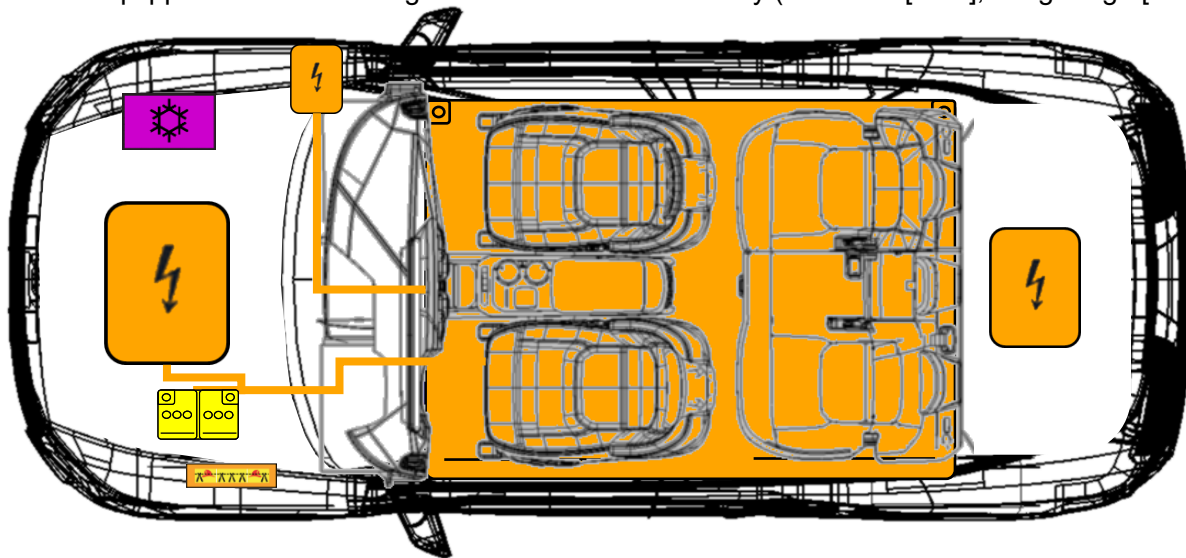
Seat adjustment

EV5 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 ① slide adjustment lever and hold it. You can slide the seat forward And rearward. Release the lever to lock. 	Push the ① button forward to move the seat Push the button rearward to move the seat backward. 
Seat cushion high 	Push down the ③ lever several times, to lower the seat cushion. Pull up the lever several times, to raise the seat cushion 	Push the ④ button up to raise the front part of the seat cushion. Push it down to lower the front part of the seat cushion. Push the ③ button up to raise the height of the seat cushion. Push it down to lower the height of the seat cushion. 
Seatback angle	Lean forward slightly and lift up the ② seatback lever. Carefully lean back on the seat and adjust the seatback. Release the lever to lock. 	Push the ② button forward or backward to adjust the seatback angle. 
Rear Seatback angle	Stand up from the seat and lift the lever from the side to fold the seat. Lift the seat up and secure the seatback in place 	

5. Stored Energy / Liquid / Gases / Solids

The EV5 is equipped with electric engine and 2 variants of battery (Standard [STD], Long range [OPT]).



Type	Advisory pictogram	STD	OPT
		299V	403V
		12V	12V
		850g	950g

High Voltage System

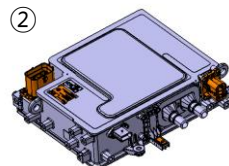
The EV5 is equipped with High Voltage system.

1. Vehicle Charging Management System (VCMS)
2. Integrated Charging Control Unit (ICCU)
3. Motor & Inverter & Reduction Gear Assembly
4. Battery System Assembly (BSA)
5. 12 V Auxiliary Battery

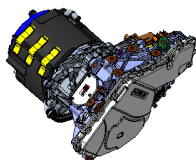
①



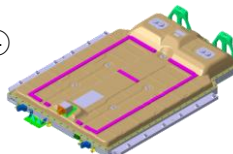
②



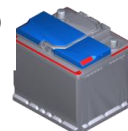
③



④



⑤

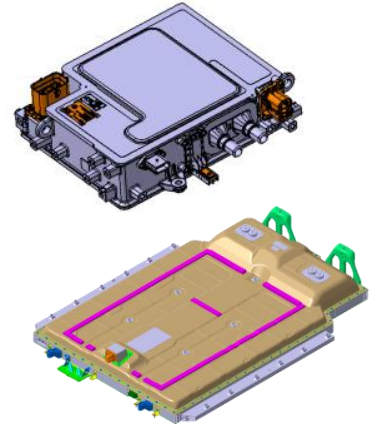


5. Stored Energy / Liquid / Gases / Solids

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.

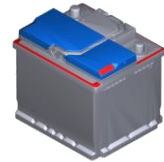


Battery System Assembly (BSA)

The HV lithium-ion battery supplies and stores electric energy. It is located under the EV5 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



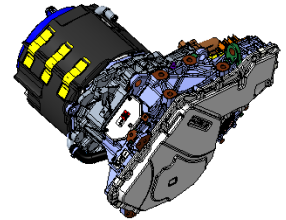
Motor & Inverter & Reduction Gear Assembly

The electric motor converts electrical energy from the battery into mechanical energy to drive the vehicle.

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.

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 HV-System

Motor		Type	Front: Interior Permanent Magnet Synchronous Motor [IPMSM]	Rear: Induction Motor
		Max. Output (kW)	160 kW	70 kW
		Max Torque (Nm)	295 Nm	185 Nm
HSG	OBC	Max. Output (kW)	10.5 kW	
		Output Voltage (V)	DC 180 ~ 482 V	
	LDC	Max. Output (kW)	Max 2.56 kW (@15.1V), Rated 2.4 kW (@13.9V)	
		Input Voltage (V)	DC 144 ~ 482 V	
High Voltage Battery		Type	Lithium-Ion	
		Rated Voltage (V)	Standard : 299 V Long-Range : 403 V	
		Energy (kWh)	Standard : 60.3 kWh Long-Range : 81.4 kWh	
		Quantity for Pack (Cell / Module)	Standard : 20 Modules Long-Range : 27 Modules	

6. In case of Fire

Firefighting Operations

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

- Lithium-ion batteries contain gel electrolyte that can vent, ignite, and produce sparks when subjected to temperatures above 300°F (150°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.

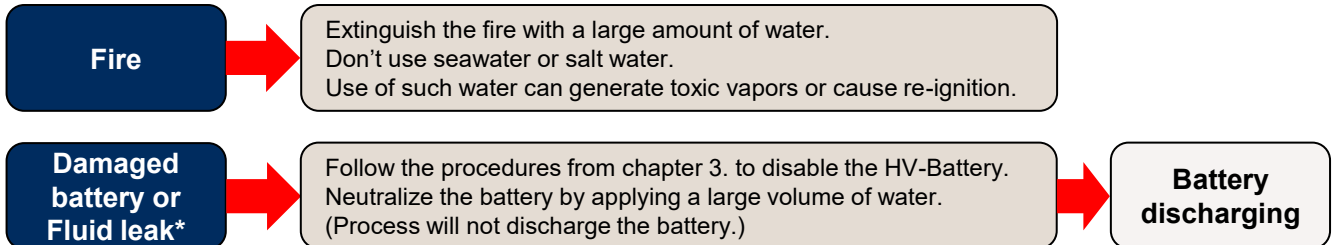


Extinguishers

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 liter) 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.

How to Deal with the Situation



*To be used if electrolyte solution leakage or damage to the high/low voltage battery casing is observed.

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 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. In case of Fire

Vehicle Fire

- Use a large volume of water (max. 100,000 liter). 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. (But, 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 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.

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 explained in chapter 3 and discharge the HV-Battery refer in chapter 8.

*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 EV5 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.

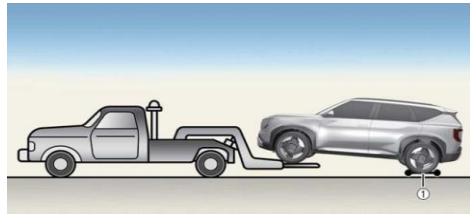
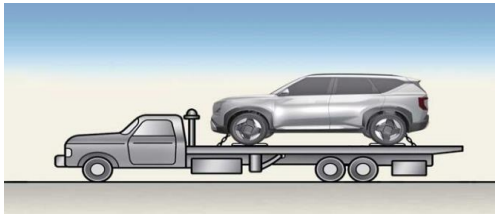
8. Towing / Transportation / Storage

Towing service

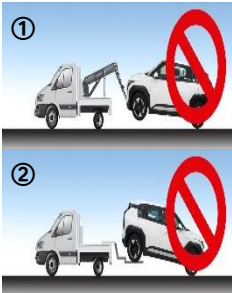
If towing the EV5 is necessary, it is recommend to having it done by an authorized KIA dealer or a commercial tow-truck service. To prevent damage to the vehicle, proper lifting and towing procedures are necessary. 4WD vehicles must be towed with a wheel lift and dollies (1) or flatbed with all the wheels off the ground. The use of wheel dollies (1) 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 (1) 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.)



Do NOT



- Do not lift using the trailer hitch or body and chassis parts.
- Do not tow vehicle with the wheels (2WD : Front, AWD : Front&Rear) on the ground (forward or backward), as this may cause fire or damage to the motor.
- If it is impossible to operate the reduction gear and parking brake, move the vehicle by using dollies, tire skate, etc with the wheels (2WD : Front, AWD : Front & Rear) lifted.
- Move short distances within 100m at a speed of 5km/h or less only when loading on a tow truck or if the vehicle needs to be repositioned. At this time, the gear must be in the N(Neutral) position and the parking brake must be released.

Removable towing hook

If tow-truck service is not available in an emergency, your vehicle can be temporarily towed using a cable or chain secured to the removable towing hook at the front(or rear) of the vehicle. Perform emergency towing using cables or chains on hard-surfaced roads for a short distance and at low speeds. The wheels, axles, PE system, steering, and brakes must all be in good working condition. In that case use the removable towing hook from the vehicle by following the installation instructions.

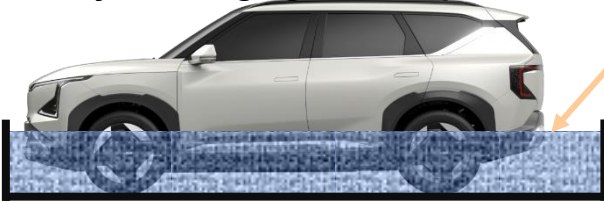
- 1) Open the tail-gate and remove the towing hook from the tool case.
- 2) Remove the hole cover pressing the lower part of the cover on the bumper.
- 3) Install the towing hook by turning it clockwise into the hole until it is fully secured.
- 4) Remove the towing hook and install the cover after use.

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.

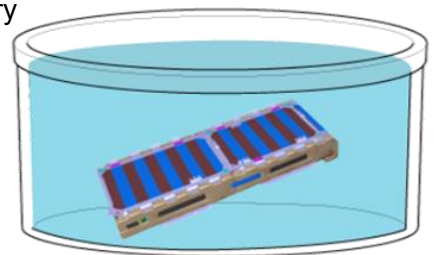


Battery discharging

- *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.



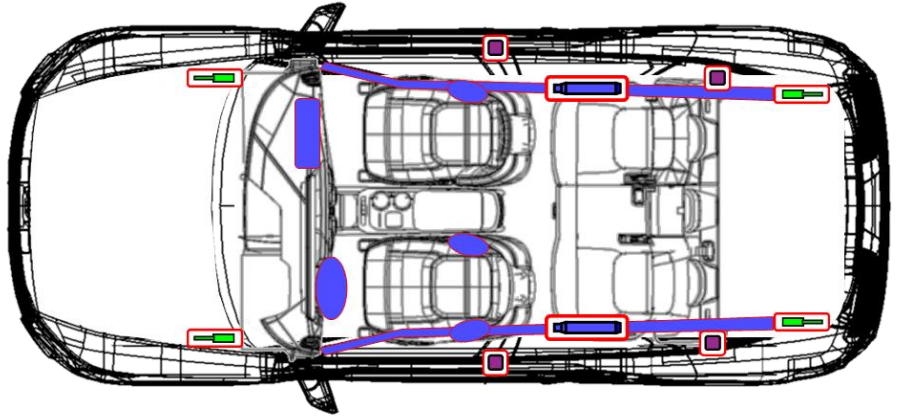
Safety Risk

- *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 EV5 comes standard with airbags, seatbelt pre-tensioners and gas struts, see picture below. Some of the features are explained in this chapter.

Safety Equipment	
	Airbags
	Gas Inflator
	Pre-tensioner
	Gas strut
	SRS control unit

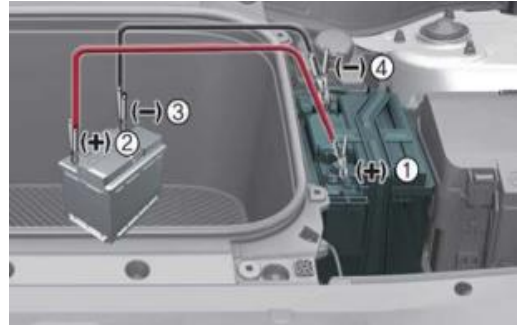


Emergency Starting

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. Connect the jumper cables as shown.
 - Positive (+) terminal of the flat battery (1) and the booster battery (2).
 - Negative (-) terminal of the flat battery (3) and the grounding point (4).
2. Start the vehicle with the booster battery for several minutes.
3. Try to start the vehicle with the flat battery again.
4. If the vehicle starts, disconnect the jumper cables as following:
 - Negative (-) terminal of the booster battery (3).
 - Positive (+) terminal of the booster battery (2).
 - Flat battery (1).

If the vehicle still does not start, contact a professional workshop or seek other qualified assistance. Kia recommends to call an authorized Kia dealer/service partner.



Risk

*Do not attempt to jump start the EV5 high voltage battery.
Failure to follow these instructions will lead to serious bodily injury or death by electrical shock.*

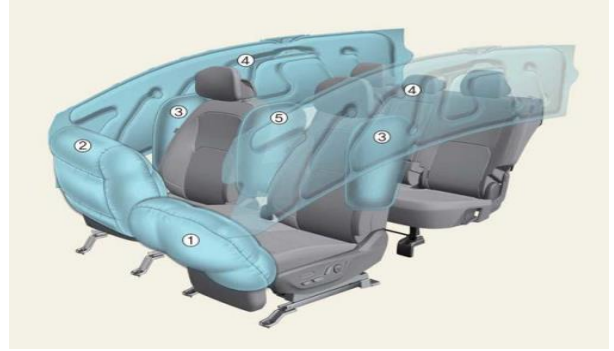
9. Important Additional Information

Airbag system (SRS: Supplemental Restraint System)

Airbag

7 airbags are installed in the EV5, 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.

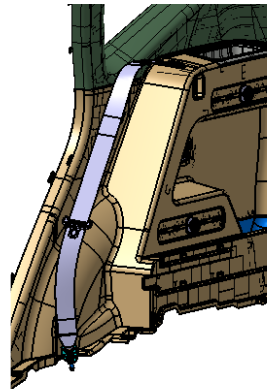
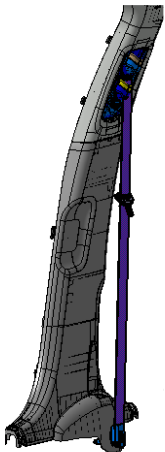
Type	
1	Driver's front airbag
2	Passenger's front airbag
3	Slide airbag
4	Curtain airbag
5	Front center side airbag (If equipped)



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

Seat Belt Pre-tensioner

In the EV5, the driver's, front passenger's and rear 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.



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.

10. Explanation of pictograms used

Table 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