

## Foreword

Thanks for choosing GAC Motor!

This manual describes basic information about this model and the procedures guiding the rescue efforts in the event of an emergency. Careful reading of this manual will enable you to fully understand the basic information and emergency handling procedures of this model, thereby improving driving safety and guiding firefighters to effectively fight fires involving this model, to perform proper rescue in collisions and water-related accidents, to reduce casualties and property damage, and at the same time to maximize protection of the personal safety of rescuers. If you have any questions, please consult the GAC Motor authorized shop.

This manual is an integral part of the complete vehicle and should be forwarded with the vehicle when it is sold or loaned.

The logos, pictures and contents used in this manual are for illustrative purposes only. GAC Motor reserves the right to make changes, additions or adjustments to the contents and technical specifications in this manual.

GAC International Co., Ltd.



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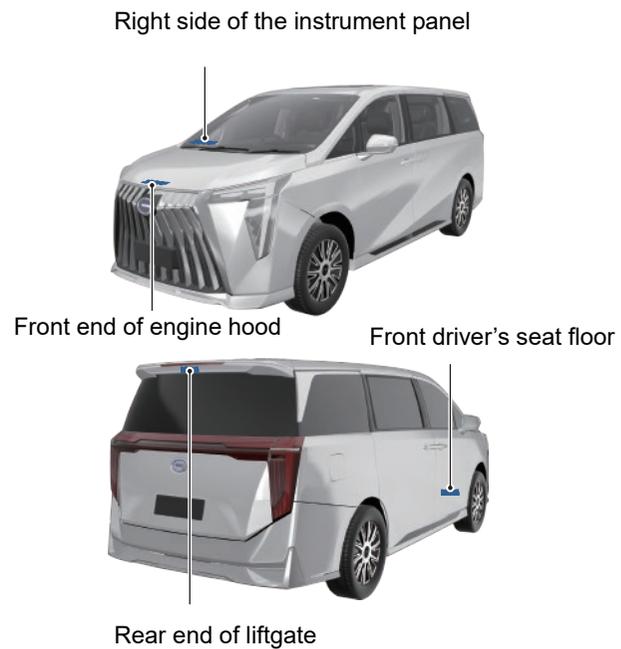
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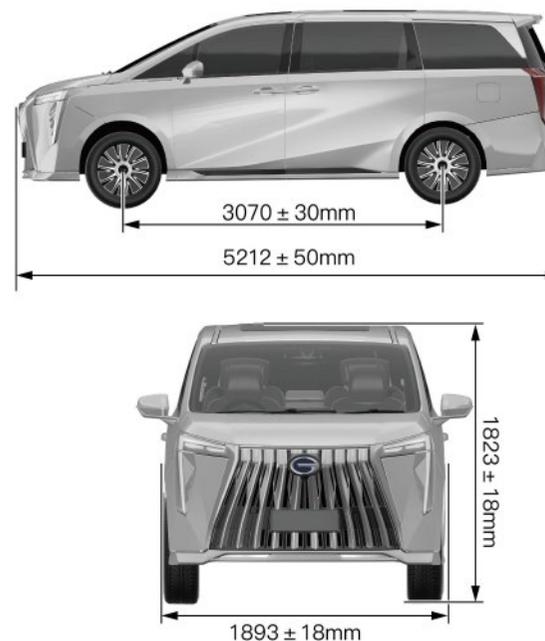
## Basic vehicle information

### Vehicle identification number location

You can find the vehicle identification number (VIN) in the following locations:



## Basic vehicle information



Item		Parameters
Vehicle model		GAC6520CHEVMDA6C
		GAC6520CHEVMDA6E
Vehicle type		Plug-in hybrid electric vehicle (PHEV)
Overall dimension (mm)	Length	5212 ± 50
	Width	1893 ± 18
	High	1823 ± 18
Wheelbase (mm)		3070 ± 30
Passenger (person)		7
Gross vehicle mass (kg)		3000

### Vehicle manufacturer information

Item	Information
Manufacturer's name	GAC Motor Co., Ltd.
Address	No. 633 Jinshan Avenue East Road, Panyu District, Guangzhou City
Web address	<a href="https://www.gacmotor.com/">https://www.gacmotor.com/</a>

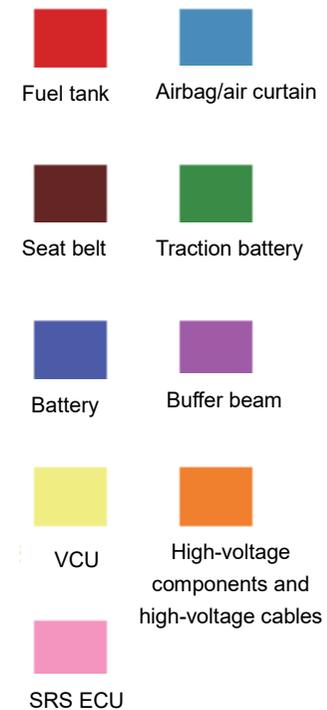
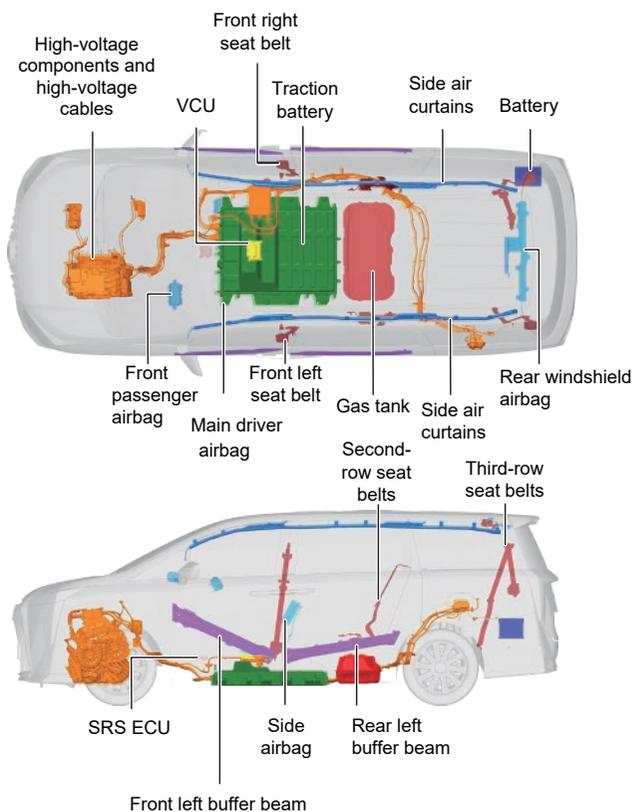
### Vehicle appearance recognition



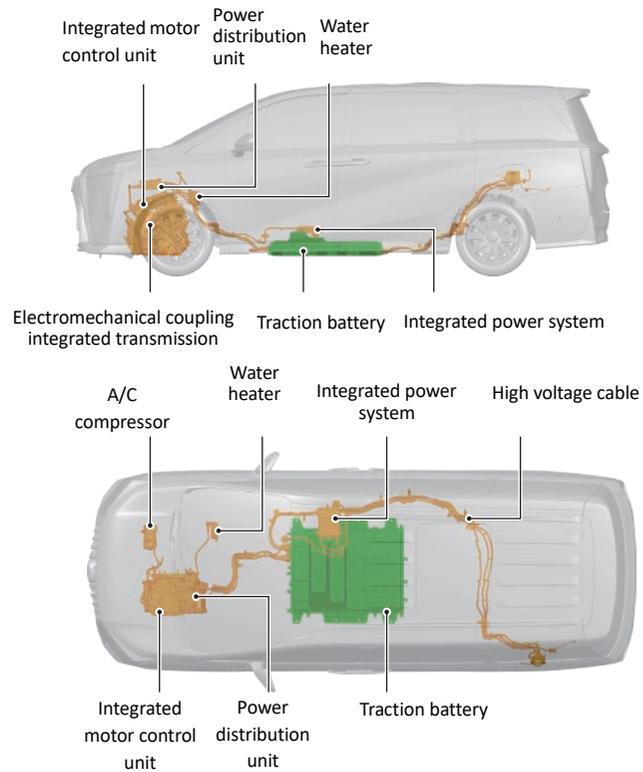
Note: Vehicle names may vary depending on the region. Please refer to the actual vehicle.

## Powertrain information

### Rescue information



### Location of high voltage components

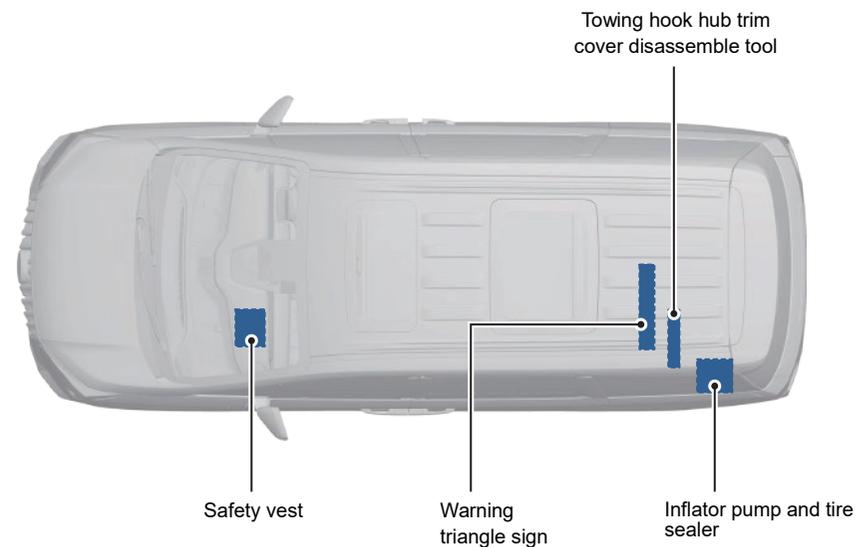
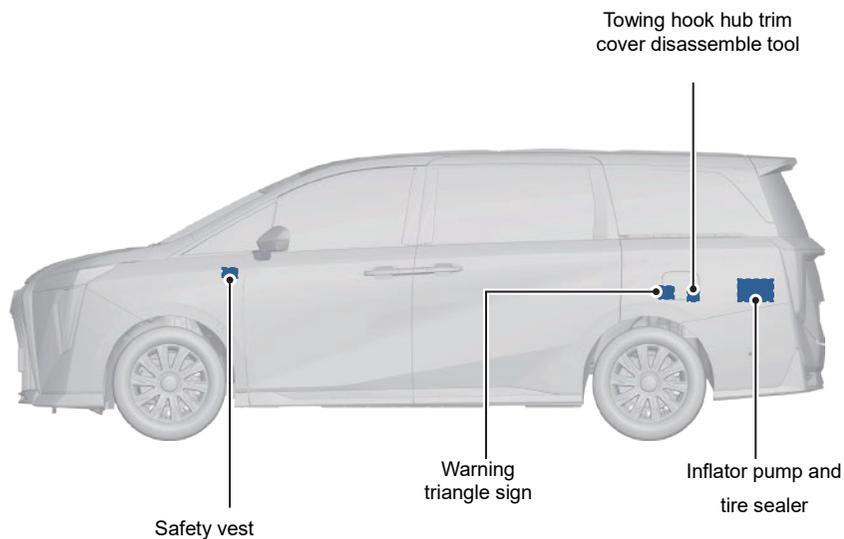


### Powertrain parameters

Item		Parameters
Single cell	Type	Ni-Co-Mn ternary lithium battery
	Rated voltage (V)	3.7
	Rated capacity (Ah)	72
Traction battery	Rated voltage (V)	355.2
	Rated capacity (Ah)	72
	Number (pcs)	1
	Weight (kg)	175 ± 5
Fuel tank capacity (L)		56
Fuel type		92# and above high-quality lead-free gasoline

## Emergency device information

### Emergency device



Safety vest



Tire sealer



Air pump



Towing hook



Warning triangle sign

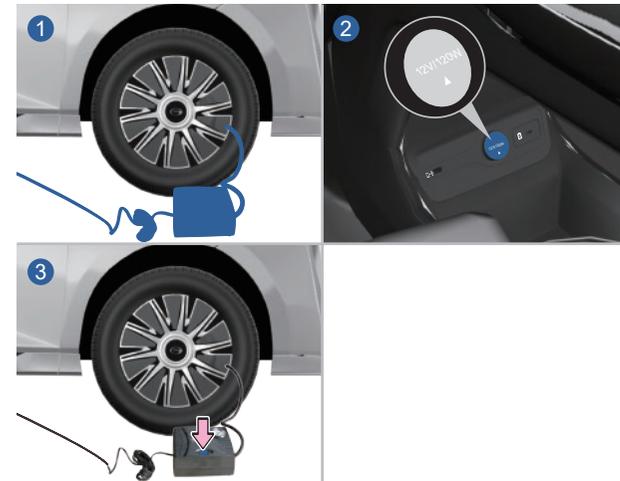


Hub trim cover disassemble tool

### Air pump only

1. Remove the automatic tire inflation pump from the trunk.
2. Remove the tire nozzle cap, screw the connector of the inflation pump into the tire nozzle, you will hear a slight leakage sound from the nozzle during the screwing process, indicating that the air has been connected, and continue to screw it in until there is no air leakage. (Figure ①)
3. Open the trim cover of 12 V power supply, insert the power connector into the on-board 12 V power supply, and start the vehicle. (Figure ②)
4. Turn on the power switch button, the tire starts to inflate, observe the air pressure meter changes, when it reaches the standard value, and turn off the power to stop inflating. (Figure ③)

Item		Parameters
Tire specifications		225/60R18
Tire pressure (kPa)	No load (front/rear)	250
	Full load (front/rear)	270



### Temporary repair of flat tires

1. Remove the inflator pump and tire sealant from the trunk. Shake the bottle and connect the inflator pump to the tire sealant with the air hose. (Figure ①)
2. Remove the tire valve cap and screw the tire sealer tube connector onto the tire valve. (Figure ②)
3. Open the trim cover of 12 V power supply, insert the power connector into the on-board 12 V power supply, and start the vehicle. (Figure ③)
4. Turn on the power switch button of the air pump so that the sealer is injected into the tire. The air pressure is relatively high and between 2.8 bar and 4 bar during sealer application. After sealer application, the air pressure will drop to about 0.7 - 1.4 bar. When the air pressure reaches the standard value, switch off the power supply and screw on the valve cap. (Figure ④)
5. Pull out the water pipe, inflation hose and power connector in turn and place them in their original positions.
6. Start the vehicle and drive 3 - 5 km at a speed of 20 - 60 km/h.
7. Park the vehicle in a safe place and connect the inflator tube to the tire again.
8. Observe the air pressure value and do inflation if there is a significant drop. If the tire pressure is lower than 1.3 bar, the tire cannot be repaired. You should go to the GAC Motor authorized shop for inspection and repair as soon as possible.

### CAUTION

- The tire sealer bottle shall not be placed upside down.
- If the tire pressure cannot reach the specified pressure within 10 min, it cannot be repaired.
- After the tire repair with the tire sealer, go to the GAC Motor authorized shop for inspection and repair or go to a professional tire repair shop for repair as soon as possible.
- The driving speed should not exceed 80 km/h after the completion of the tire repair with tire sealer.



### Safety guide

When a vehicle breaks down or is involved in an accident, in order to attract the attention of the vehicle behind, the driver should turn on the hazard warning lamps, wear a safety vest and place a warning triangle.

1. Park your vehicle in a safe place and turn on your hazard warning lamps. (Figure ①)
2. Remove the safety vest from the glove box and put it on.
3. Remove the warning triangle from the trunk.
4. Place a warning triangle at the rear of the vehicle. (Figure ②)

Ordinary highway		Expressway
Daytime	Night	
≥50 m	≥80 m	≥150 m

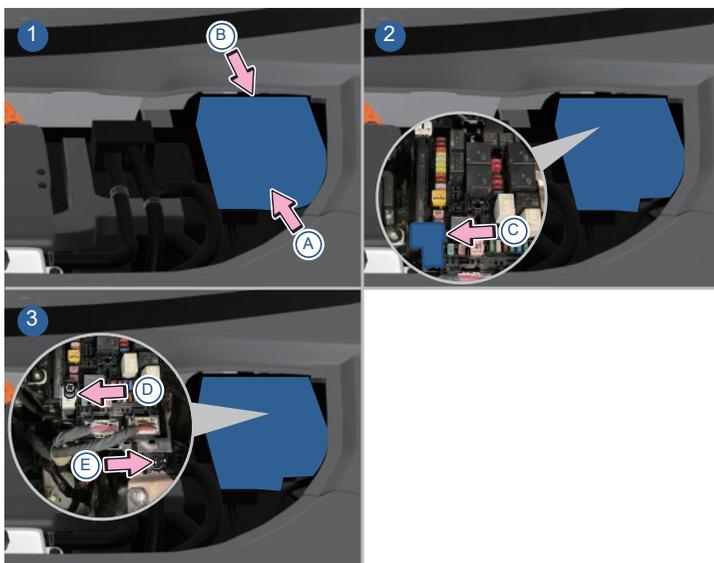


### Emergency start

1. Open the engine hood and locate the harness fuse box at the left side of the engine compartment, press the retaining clips in the direction of -arrow A- and -arrow B- until it is fully unlocked, then lift up the cover. (Figure ① on page 9)
2. Outwardly pivot the clip (arrow C) to open the cover. (Figure ② on page 9)
3. Connect the clip of the positive jumper cable to the vehicle-specific jumper starter terminal -arrow D- and the other end to the positive battery terminal of the other vehicle. Connect the clip of the negative jumper cable to the -arrow E- of this vehicle and the other end to the negative battery terminal of the other vehicle. (Figure ③ on page 9)
4. Start the engine of the vehicle with power battery and let it idle. Then, start the engine of the vehicle with the depleted battery till the instrument cluster module displays “READY”.

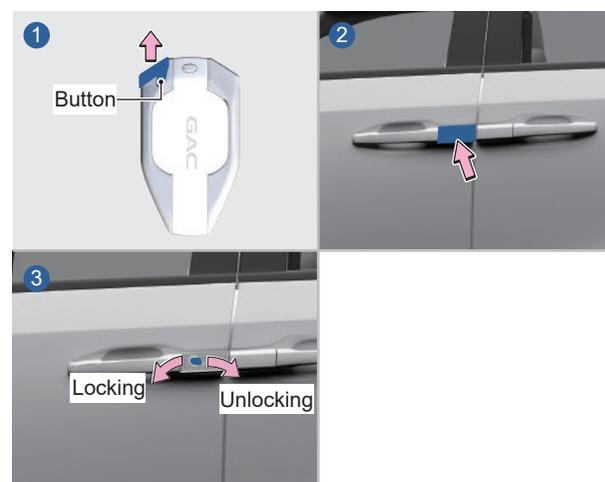
#### CAUTION

- For emergency charging of the 12 V battery from another vehicle, the special jumper start positive terminal -arrow D- should be used.
- When connecting the battery, the positive terminal must be connected first, followed by the negative terminal. Reverse connection is strictly prohibited.
- Properly place the jumper cable to avoid contact between the cable and the moving components of the engine.



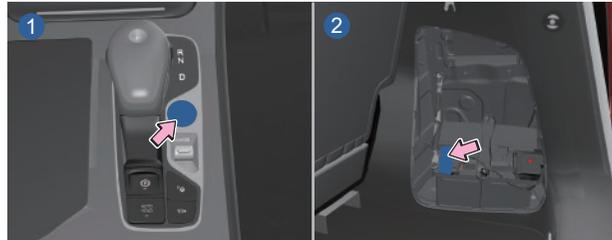
### Emergency unlocking with mechanical key

1. Press the lock button while removing the emergency mechanical key in the direction of the -arrow-. (Figure ①)
2. Insert the emergency mechanical key into the decorative cover of the mechanical lock at the front left door. Pop up the decorative cover gently upwards, pull up the door handle and take off the decorative cover. (Figure ②)
3. Insert the emergency mechanical key into the front passenger side door lock hole. Turn the key clockwise to unlock the driver's side door. (Figure ③)

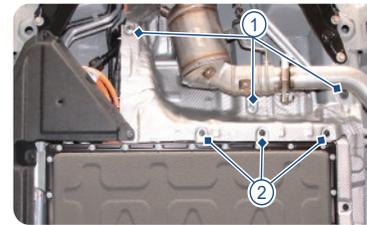


### High-voltage deactivation procedures

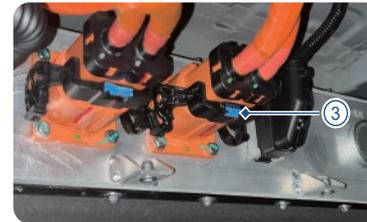
1. Press the START/STOP button to turn off the vehicle. (Figure ①)
2. Open the liftgate, pry off the right side trim cover of the trunk and disconnect the negative 12 V battery terminal. (Figure ②)



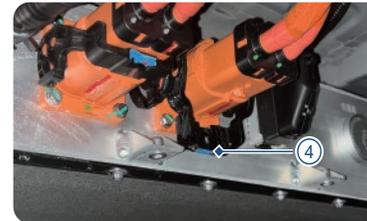
### Disconnect the high voltage connection plug



1. Lift the vehicle, remove the fixing nuts ① and bolts ②, and remove the front exhaust pipe heat shield.

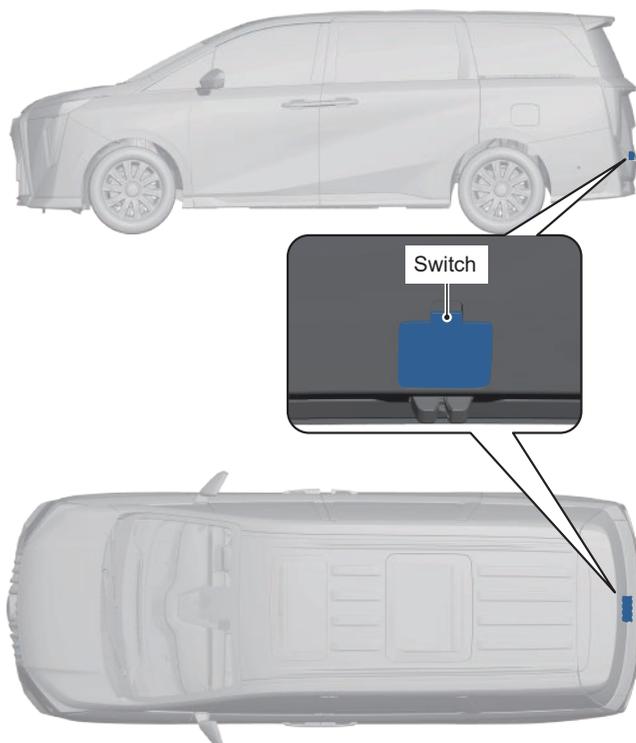


2. Pull out the blue locking pin ③.



3. Pull down the locking handle ④ to remove the high voltage connecting plug.

## Escape mechanism

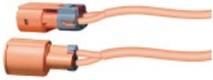


## Vehicle escape

1. Lower the rear seat headrests to the lowest position and pull up on the backrest-reclining switch cable to unlock it and fold the backrest forward. (Figure ①)
2. Get inside the trunk.
3. Emergency opening of the liftgate: Open the trim panel on the liftgate in the -arrow A- position and toggle the liftgate emergency switch in the direction of the -arrow B- to unlock and open the liftgate in an emergency. (Figure ②)



**Safety signs information sheet**

Serial No.	Name of safety signs	Safety sign patterns	Interpretation of safety signs
1	High voltage warning signs		High voltage, pay attention to safety.
2	Power battery warning label		<p>High voltage:</p> <p>Do not try to disassemble or repair, there may be electric shock;</p> <p>Do not touch with conductor, shocking and striking are also forbidden;</p> <p>Do not immerse in water or expose in fire, burning or explosion may occur;</p> <p>For repair and replacement, please be sure to contact the dealer;</p> <p>For recycling, please contact the battery manufacturers.</p> <p>Battery type: Lithium-ion Battery</p>
3	Integrated power system warning label		<p>High voltage inside, it's dangerous;</p> <p>Only professional workers can open the cover;</p> <p>Please read the Owner's Manual carefully before opening the cover.</p>
4	High-voltage harness marking		<p>The vehicle's high-voltage components are connected with the orange high-voltage harness.</p> <p>Do not touch the high-voltage components or the orange high-voltage harness without wearing protective gear!</p>

## Emergency rescue tool

Emergency rescue tools mainly contain emergency rescue materials, emergency rescue tools for emergencies, emergency rescue warning supplies, emergency rescue breaking-in tools, emergency rescue medicines and so on.

The powertrain of the vehicle is driven by the engine and power battery, which may produce high-voltage electric leakage or battery liquid leakage in the event of a serious collision. Therefore, the rescue operation of the vehicle should be operated by professional rescuers and wear the corresponding protective devices to protect personal safety.

Protective devices are mainly divided into electrical protection in the event of high-voltage electric shock and chemical protection in the event of battery leakage:

- Electrical protection: rubber insulating gloves (insulating against voltages above 500 V), goggles, insulating rubber shoes, tools with insulating protective covers, etc.
- Chemical protection: protective masks and solvent insulating gloves, etc.

## Parking operation

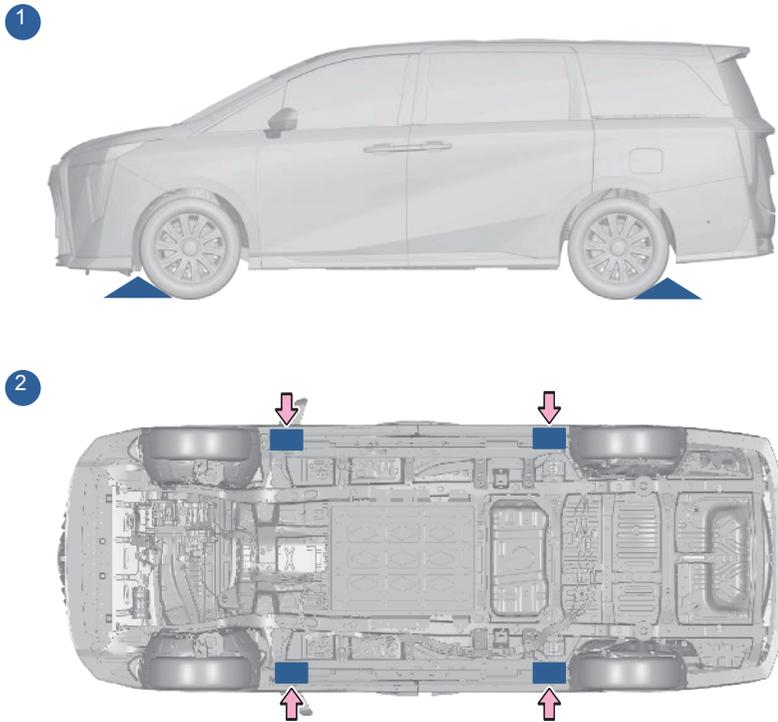
1. Stop the vehicle by depressing the brake pedal.
2. Press the P-shift button, the gear is shifted to P-shift, the "P" indicator lamp on the instrument cluster module comes on. (Figure ①)
3. Release the brake pedal, press down the START/STOP button, and turn off the vehicle. (Figure ②)



### Vehicle immobilization and lifting

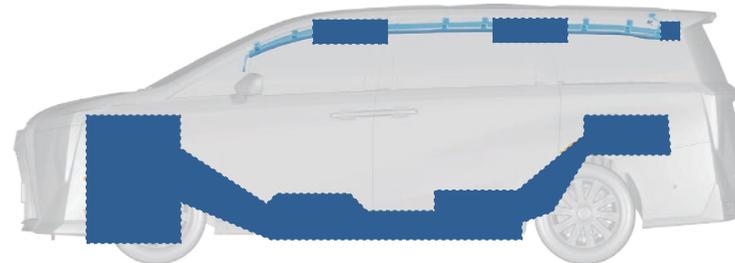
When the vehicle is parked, wedges are placed in front of and behind the four wheels to effectively prevent accidental movement of the vehicle. (Figure ①)

When lifting the vehicle, you can only lift the vehicle using the designated positions, such as the four lifting points of the vehicle chassis shown in the figure. (Figure ②)



### Vehicle cutting area

In case of accident rescue, if you need to cut, expand or puncture the body parts, you should pay attention to avoid high temperature, high pressure, flammable and explosive areas such as airbag related components, high voltage parts, fuel tanks, etc. The boxed locations as shown in the following figure are the prohibited cutting areas.



## Vehicle wading rescue

It is recommended that you do not wade your vehicle in water for long periods of time, as this can easily cause damage to the vehicle's high-voltage components.

1. Rescuers should first identify the vehicle, survey the environmental conditions, understand the structure of the vehicle's high-voltage system, and evaluate and then determine a rescue plan.
2. Rescuers should be well protected from electrical insulation, and wading rescuers should wear waterside protective equipment.
3. Secure the vehicle and disconnect the power supply before rescuing.
4. Personnel search and rescue.
  - Analyze the situation at the scene, fully consider possible risk factors during the rescue process, and determine the rescue plan.
  - Break a window or open a door to assist the occupants of the vehicle.
  - Persons in distress should be rescued and handed over to medical emergency personnel for care.
5. Vehicle disposal and cleanup of the site.
  - Avoid contact with high-voltage components, cables or disconnect switches, etc.
  - Vehicle salvage should be performed by a qualified agency in accordance with the vehicle water rescue requirements. After the vehicle is salvaged to the roadway, it should be electrically insulated to prevent electrocution.

## Vehicle fire rescue

Please operate the vehicle as follows according to the actual situation:

1. Press the START/STOP button to turn off the vehicle and disconnect the vehicle's negative 12 V battery terminal if conditions permit.
2. If the fire at the scene is large and growing quickly, immediately move away from the vehicle and contact local fire and rescue authorities.
3. If the vehicle's power battery or fuel tank area is on fire, it should be operated by professional rescuers wearing correct protective equipment. Trapped passengers in the vehicle evacuate according to the guidance of professional rescuers. Use a water-based foam extinguisher to extinguish the fire and monitor battery area temperatures and fuel tank area fires to prevent re-ignition. Ensure that the battery is no longer heating and then store the vehicle in an open flat area with a safety zone of about 15 m radius to prevent uninvolved persons from touching the vehicle.
4. The inflator in the airbag may expand and explode when exposed to high temperatures. Be careful before operating the airbag to avoid personal injury.

## Power battery/fuel spill rescue

If abnormalities such as power battery/fuel leakage, irritating odor, smoke occur after a vehicle collision, please follow the simple procedure below:

1. Press the START/STOP button to turn off the vehicle and disconnect the vehicle's negative 12 V battery terminal if conditions permit.
2. Immediately contact the GAC Motor authorized shop to request assistance.

### CAUTION

- If there is a leak or an unusual phenomenon such as an irritating odor or smoke, move away from the accident vehicle to a safe location.
- When the human body accidentally comes into contact with the leaking liquid, it should be washed immediately with a large amount of flowing water for (10 - 15) min. If necessary, it must go to the hospital for prompt medical treatment.

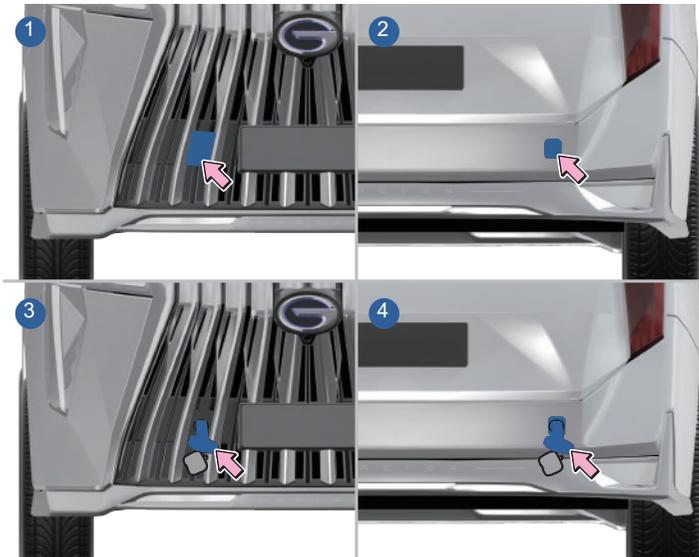
## Post-accident evacuation

### Attachment of towing hook

The front and rear ends of the vehicle are equipped with mounting holes for towing hooks, which can be used to tow a tow truck when the vehicle stops running in case of a breakdown.

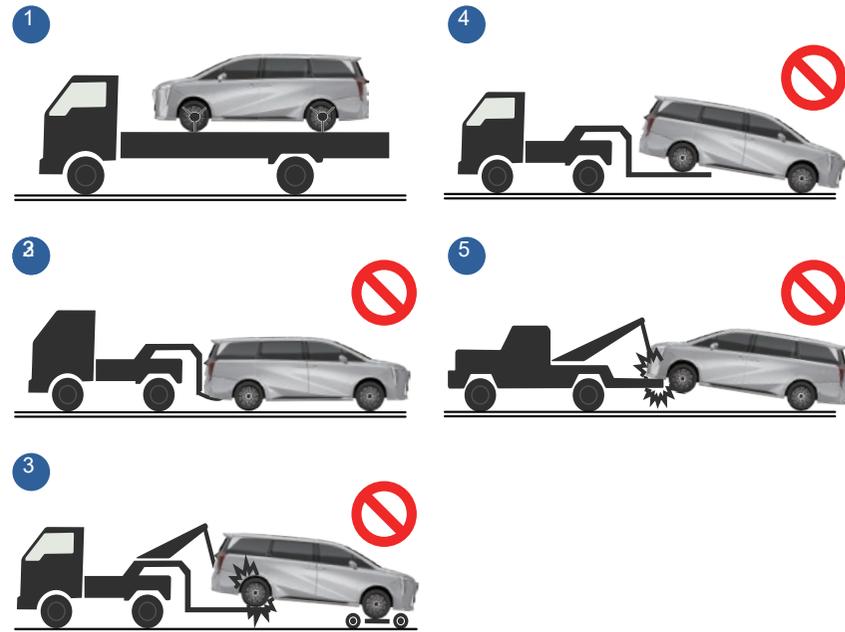
The specific steps are as follows:

1. Remove the towing hook from under the rear seats.
2. Pry off the towing hook cover in the arrowed position using a slotted screwdriver wrapped with a cloth. (Figure ①② on page 17)
3. Screw the towing hook clockwise into the threaded hole and tighten the towing hook. (Figure ③④ on page 17)
4. Attach the tow rope to the towing hook, taking care not to touch the body.
5. Shift gear to N, switch the START/STOP button to "ON", turn on the hazard warning lamps, release the parking brake and wait for traction.



### Tow truck

After the accident, if the vehicle cannot be started normally, evacuate the scene by towing as follows ①:



Vehicle towing precautions:

1. If the vehicle needs to be towed, we recommend contacting the GAC Motor authorized shop.
2. The towing method of ① in the figure is required, and the dragging method of ②, ③, ④, and ⑤ in the figure is prohibited.
3. Personnel are prohibited from remaining in the vehicle during towing.
4. Use tire tie-down straps when transporting vehicles with platform trucks. To prevent the vehicle from moving during transportation, set the parking brake and turn off the power to the entire vehicle.
5. It is strictly forbidden to lift the vehicle with the battery pack box assembly as a support point, e.g. by lifting the vehicle from the lower body with a forklift.

 CAUTION

- For long-distance transportation, tow trucks are used①.
- When the towing vehicle is inaccessible for rescue, other vehicles may be used for towing rescue. The whole vehicle is under high pressure, the gear is in N gear and the parking brake is lifted, the towing speed is lower than 30 km/h, the single towing distance is less than 2 km (the interval time between each tow is more than 5 min), and the vehicle is towed to the position where the towing vehicle can be accessed for rescue, then it is necessary to use the tow truck method ① for towing.
- If a platform cargo vehicle cannot be used normally for towing the vehicle, a rigid connection can be used to urgently tow the vehicle to a safe area and wait for rescue.
- When rigid towing is used, long towing distances should be avoided and the speed of the tow truck should not exceed 5 km/h.
- Tow away from the scene only after ensuring that the vehicle is not a safety risk. If the vehicle's battery pack is deformed, leaking fluid, smoking, etc., the safety risk should be addressed first.