NIO ES8

Emergency Response Guide

NIO.com

Do not dispose of vehicle keys in household trash.
They contain materials that can be recycled.

Take the used battery to a recycling center or to your service center.

ONLINE USER MANUAL

This user manual provides the basic operating instructions of NIO all-new ES8. For owners who want insights and detailed information about the features and functions of the car, an in-depth online manual is available in our official website.

OWNER MUST-READ

Thank you for choosing NIO all-new ES8 (hereinafter referred to as “ES8”). As a smart electric flagship SUV, your ES8 will offer considerate experience during the green journey.

Before starting the journey, you are suggested to read the ES8 User Manual on the center display to understand all information needed. This manual aims to specify the vehicle basic information, as well as actions and roadside assistance needed in case of emergency. If you want to know all the information about the vehicle, please view the ES8 User Manual full version on the center display. For more information about vehicle repairs and maintenance, please view the ES8 Warranty and Maintenance Manual on the center display.

Any duplication or modification of the contents of this manual, in whole or in part, is not allowed without valid authorization.

Any modification, adjustment, or disassembly of vehicle parts is not allowed without valid authorization, so as to avoid vehicle malfunctions or personal injuries.

The labels, signs, and images used in this manual are for illustration and reference only.

This guide provides only the specific information required to understand and safely handle the fully electric ES8 in an emergency situation. It describes how to identify ES8 and provides the locations and descriptions of its high voltage components, airbags, inflation cylinders, seat belt pre-tensioners, and air spring gas cylinders . This guide includes the high voltage disabling procedure and any safety considerations specific to ES8. Failure to follow recommended practices or procedures can result in serious injury or death.

Please strictly comply with the warning information specified in this manual. The information will help you use the vehicle more safely.

Warning Information

WARNINGS:
These are highly relevant to personal safety. Failure to do so may cause personal injuries or severe accidents. Please make sure that you comply with them.

CAUTIONS:
Reminders on how to avoid possible vehicle damages or property losses.

NOTES:
Suggestions on how to use the vehicle more properly.

ES8 Information

ES8 INFORMATION

Warning Sign Information

No.	Name	Warning Sign	Description
1	High voltage electricity warning sign		Danger! Do not touch high voltage components.
2	High voltage components warning sign 1		High voltage components. Danger! Do not touch high voltage components without wearing protective equipment to avoid electric shock.
3	High voltage components warning sign 2		High voltage components. Danger! Do not touch high voltage components without wearing protective equipment to avoid electric shock and burns.
4	High voltage battery pack warning sign		Cautions for using the high voltage battery pack.
5	High voltage cable warning sign		High voltage components are connected with orange high voltage harnesses. Do not touch high voltage components without wearing protective equipment.
6	Mutual compatibility identifiers used for charging the car		Mutual compatibility identifiers to guide you charging the car are found in the car's charging port. When selecting the charging gun, you must make sure the identifier on the charging gun equals one of the identifiers found in the car's charging port, either C, K or L. Voltage ranges related to those identifiers are as follows: C: AC ≤ 480 V K: DC 50 V to 500 V L: DC 200 V to 920 V

Indicators on the Instrument Cluster

Please contact NIO immediately when any of the following indicators are not in their normal state.

No.	Icon	Description
1		Autohold
2		Position lights
3		Auto High Beam
4		High beam headlights
5		Low beam headlights
6		Rear fog lights
7		Front fog lights
8		Vehicle ready
9		Left turn signal
10		Right turn signal
11		Icy/Snowy road
12		Hands-off steering wheel warning
13		Charging cable connected
14		Power system fault
15		Anti-Lock Braking System fault
16		Tire Pressure Monitoring System warning
17		Electric Parking Brake

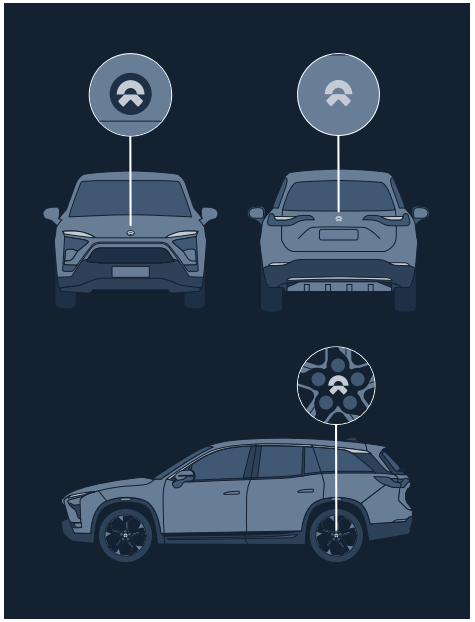
No.	Icon	Description
18		Brake system fault
19		Seat belt warning
20		Airbag fault
21		Pedestrian Warning System off
22		Electronic Stability Program fault
23		Driving motor fault
24		Low battery level
25		12V battery charging fault
26		High voltage battery cutoff
27		High voltage battery fault
28		High voltage battery overtemperature
29		Limited power
30		Limited brake performance

ES8 Information

Vehicle manufacturer	Anhui Jianghuai Automobile Group Corp.,Ltd.
Service hotline	Refer to the contact table
NIO official website	Refer to the contact table

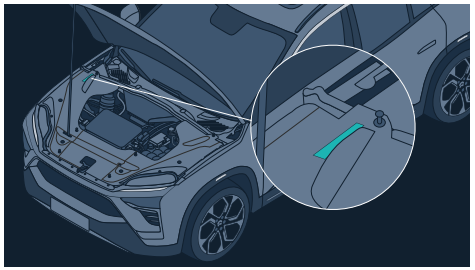
You can find the vehicle certification label in the lower area of the right B-pillar.

Vehicle brand label:

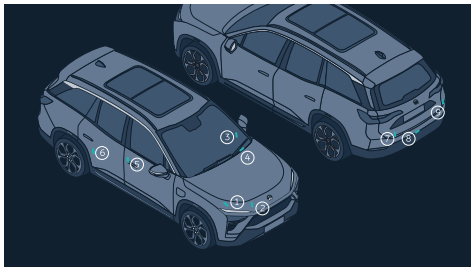


Vehicle Identification Number (VIN)

The vehicle identification number is stamped on the right front shock tower bracket.



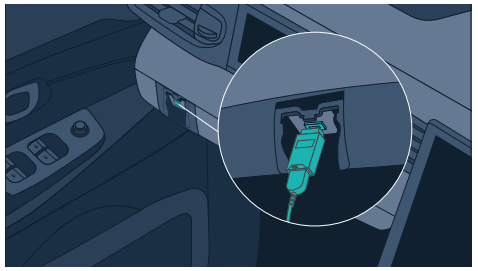
You can also find the VIN in the following locations:



1. Underside of the hood
2. Upper area at the end of the front driving motor
3. Left side of the instrument panel beam
4. Lower-left area of the front windshield
5. Lower area of the right B-pillar
6. Lower area of the right rear door frame
7. Upper area at the end of the rear motor
8. Upper side of the rear floor
9. Right side of the liftgate

You can also read the VIN from diagnostic instruments that pair with the vehicle (safety module diagnosis tool BD2):

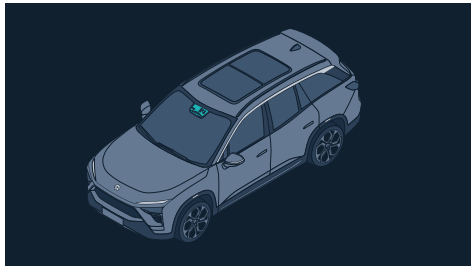
1. Connect the diagnostic instrument to the diagnostic interface of the vehicle and turn it on.



2. Start the diagnostic program and log in to the diagnostic instrument interface.

3. The diagnostic instrument automatically reads and displays the VIN on the interface of the diagnostic instrument.

There is a radio frequency identification device (RFID) at the front windshield of the vehicle.

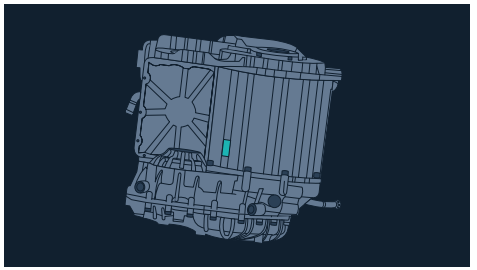


Recommended Fluids and Capacities

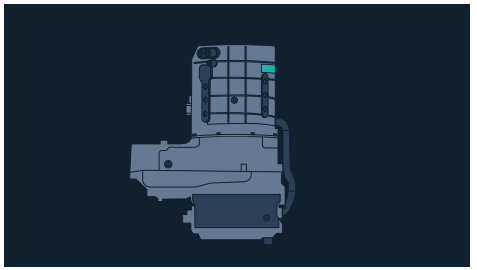
Item	Product	Capacity
Brake Fluid	DOT4	0.61 liters
Coolant	-40°C OAT (water-ethylene glycol solution containing inhibitor)	15.5 liters
Refrigerant	R1234yf	1300 grams
Windshield Washer Fluid	Freezing point < - 30 °C	3 liters
Gearbox Oil	Castrol BOT350M3	1.3 liters (front), 1.6 liters (rear)

Driving Motor Identification Labels

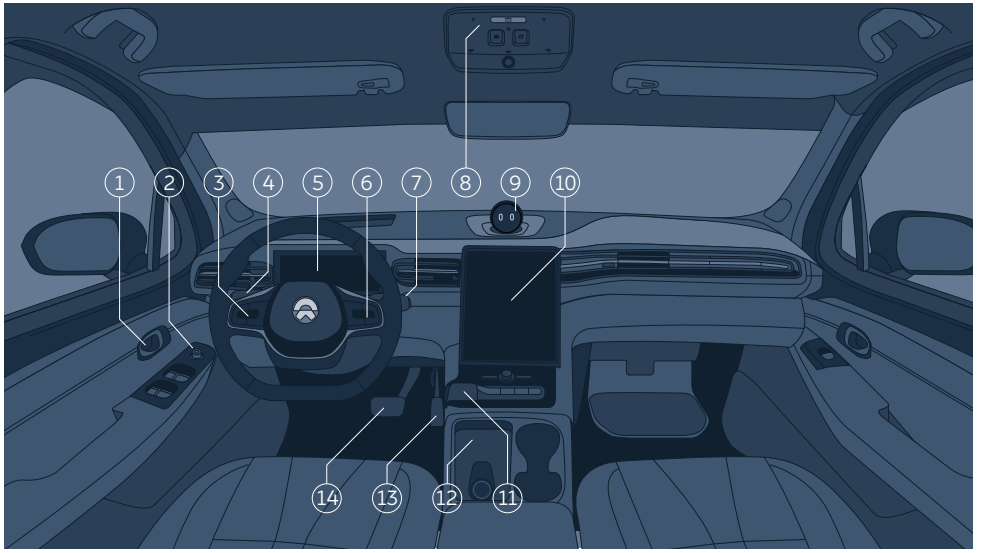
The front driving motor identification label is located on the lower side of the motor.



The rear driving motor identification label is located on the lower side of the motor.



Instrument Cluster and Controls



1. Interior door handles
2. Control panel for side mirrors and windows
3. Steering wheel buttons - left
4. Light control lever for turn signals and headlights
5. Digital instrument cluster
6. Steering wheel buttons - right
7. Wiper and washer control lever
8. Control panel for emergency calls, sunroof and sunshade, and reading lights
9. NOMI*
10. Center display
11. Gear selector and center console control panel
12. Wireless charging pad
13. Accelerator pedal
14. Brake pedal

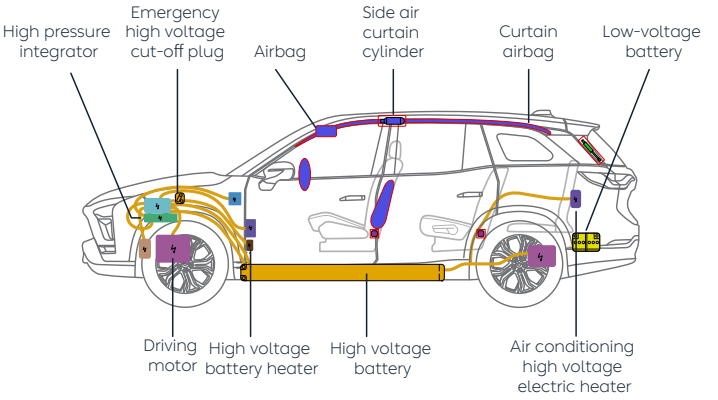
NOTE

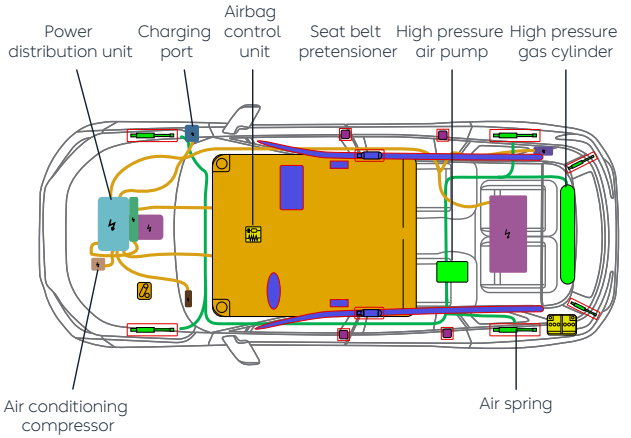
- Shown is NOMI Mate.

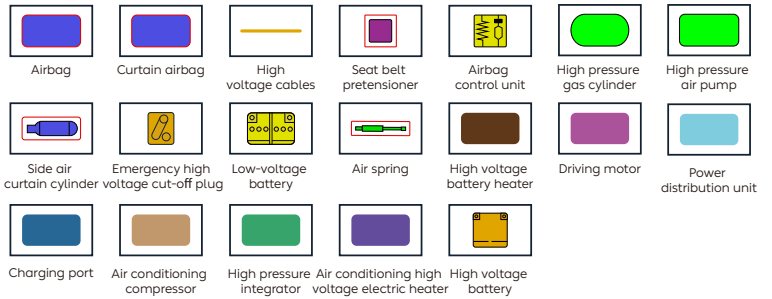
Powertrain Information

WARNING

- All high voltage connectors and high voltage cables are typically colored orange for easy identification. People who are not professional technicians should not disassemble or replace high voltage components to avoid the risk of electric shock.







High Voltage Battery

The ES8 is equipped with a floor-mounted 350V lithium-ion high voltage battery. Never breach the high voltage battery when lifting from under the vehicle. When using rescue tools, pay special attention to ensure that you do not breach the floor pan.

WARNING

- Before servicing or disassembling a high voltage component, you must power off the system. Make sure both the emergency switch and the 12V battery are cut off. After powering off the vehicle, put the vehicle standstill for at least five minutes before carrying out any operation.

WARNING

- The battery busbar operates at around 400V. The person who disassembles or installs a high voltage component must have a valid low-voltage electrician certification; the person must wear appropriate personal protective equipment, including insulating gloves, and must remove all metal objects.

Driving Motors

The driving system powers the vehicle by converting the direct current from the high voltage battery into mechanical torque which is distributed to the four wheels. In addition, it can also recover kinetic energy to charge the high voltage battery and operate in reverse to turn the drive shafts backward. The driving system consists of two driving motors. The front motor is mounted on the front subframe, and the rear motor is mounted on the rear subframe.

Low Voltage Battery

The 12V battery operates the SRS, airbags, windows, door locks, displays, and interior and exterior lights. The high voltage system charges the 12V battery, and the 12V battery supplies power to the high voltage contactors, allowing high voltage current to flow into and out of the high voltage battery.

The 12V battery is located behind the trim panel on the left of the trunk.

Airbags

The airbag system includes front airbags and side airbags. The front airbags include front head airbags that are located in the steering wheel and on the headliner of the passenger side. The side airbags include front side airbags (located on the outside of the front seats) and curtain airbags (located on the headliner from the A pillar to C pillar on both sides). The locations of the airbags are labeled “AIRBAG”.

Seat Belts with Pretensioners and Force Limiters

Both front and second row outboard seats as well as third row seats feature seat belts with pretensioners and force limiters (dual-stage for the front seats). The pretensioners rapidly retract and latch seat belts the instant a severe collision occurs, thereby providing increased protection to occupants. The force limiter can then prevent the seat belt from exerting too much force on the occupant and minimize belt-inflicted injury.

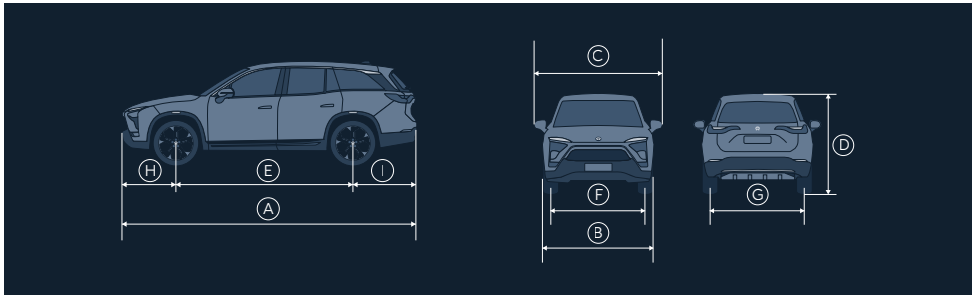
Air Suspension High Pressure Tank

The high-pressure air tank is mounted at the rear of the vehicle body using a rubber-wrapped bracket. The air tank generates sufficient air for the suspension system. Nominal pressure: 0-15 bar The ride height is adjusted by adjusting the air pressure of the system.

ES8 Specifications

ES8 SPECIFICATIONS

Vehicle Dimensions



Item	Value
Length A (mm)	5022
Width B (mm) (excluding side mirrors)	1962
Width C (mm) (including side mirrors)	2268
Height D (mm)	1756
Wheel Base E (mm)	3010
Front Track F (mm)	1668
Rear Track G (mm)	1672
Front Overhang H (mm)	922
Rear Overhang I (mm)	1090
Ground Clearance (mm)	161
Cargo Volume (L)	310
Cargo Volume - with third-row seats folded down (L)	871
Cargo Volume - with second- and third-row seats folded down (L)	1861 1901
Seats	7 6

Weights

Item	Value
Gross Vehicle Weight Rating (kg)	3099
Gross Front Axle Weight Rating (kg)	1295
Gross Rear Axle Weight Rating (kg)	1804
Technically Permissible maximum towable mass of the towing vehicle In case of centre-axle trailer (kg)	1500
Technically permissible maximum laden mass of the combination (kg)	4500
Maximum mass of unbraked trailer (kg)	750
Technically permissible maximum mass at the coupling point (kg): • of a towing vehicle • of a centre-axle trailer	75
Trailer brake connections	Mechanical

Motor Specifications

Item	Specifications	
	Front	Rear
Type	Permanent Magnet Alternating Current Motor	Alternating Current Induction Motor
Model	TZ160S001	YS240S001
Rated power/torque (kW/r/N·m)	60/130	60/120
Peak power/torque (kW/r/N·m)	160/305	240/420

Wheel and Tire Specifications

Item	Value
Specifications	255/55R19
	255/50R20
	265/45R21
Tire Pressure (bar)	2.6(unladen) 2.8 (full loaded rear tire)
Camber Angle	-0.5±0.5°
Total Front Camber Angle	0±0.5°
Front Toe Angle	0.3±0.2°
Front Caster Angle	4.7±0.5°
Total Front Caster Angle	0±0.5°
Rear Camber Angle	-1.3±0.5°
Total Rear Camber Angle	0±0.5°
Total Rear Toe Angle	0.2±0.2°
Approach Angle	0±0.2°
Steering Wheel Angle	0±3.5°
Front Track Height (mm)	473±5
Rear Track Height (mm)	474±5
Lug Nut Torque (N·m)	220

NOTE

- Wheel specifications are subject to the vehicle configurations.

Braking and Suspension Specifications

Item	Specifications	
Brake Pad Thickness (mm)	Front	Rear
	2 to 9	2 to 11
Brake Disc Thickness (mm)	Front	Rear
	32 to 30	20 to 18
Brake Pedal Free-Play (mm)	15 to 25	
Nominal Pressure of Air Suspension Reservoir (bar)	15	

Tire Information

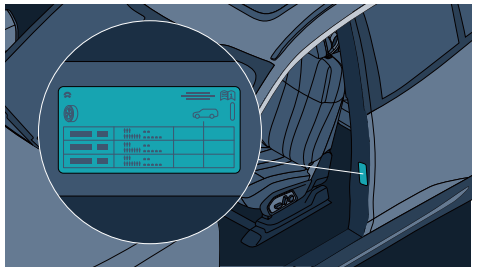
TIRE INFORMATION

Tire Inflation

WARNING

- Using underinflated or overinflated tires will increase the risk of accident and injury.

To ensure your safety while driving, please check the tire pressure regularly. When checking the tire pressure, make sure the tires are cold (the tire temperature is the same as the ambient temperature or the vehicle has not been moved for three hours after driving). The recommended cold tire inflation pressure label is located on the frame of the driver's side door. If the tire is hot, the tire pressure is generally 0.3 bar higher than that of a cold tire.



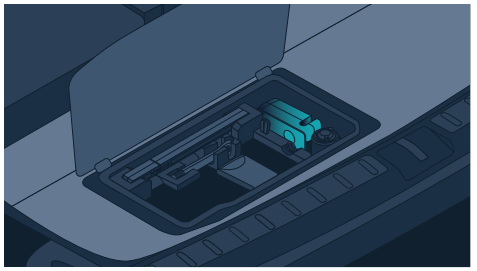
Overinflation will affect your comfort while driving, damage tires, especially on rough roads, and cause blowouts in severe cases. This may lead to unexpected loss of vehicle control and increased risk of injury. Underinflation will cause uneven tire wear, affect the vehicle handling, and result in abnormal energy consumption.

NOTE

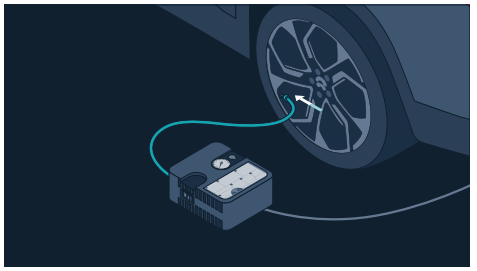
- The 21-inch tires are self-sealing tires. When the width of a tire puncture is less than five millimeters and the tire pressure shown on the center display is normal, the vehicle can still be driven under 120 km/h. If the tire is severely punctured or damaged, please contact NIO immediately for tire inspection or replacement.

You can inflate the tires with the tire inflator in the emergency kit. To inflate a flat tire:

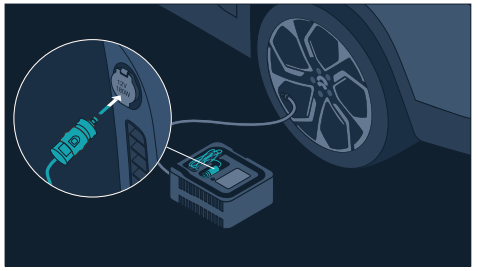
1. Park the vehicle on a safe road and set up the warning triangle in a proper location.
2. Open the emergency kit cover in the trunk to take out the tire inflator.



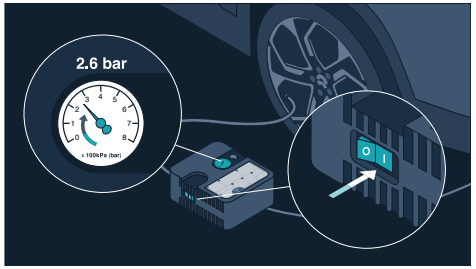
3. Connect the inflation hose on the side of the tire inflator to the valve stem on the tire.



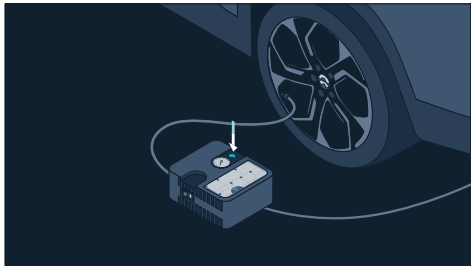
4. Connect the power plug of the tire inflator to the 12V power socket in the vehicle.



5. Make sure the vehicle is powered on, turn on the power switch of the tire inflator, and inflate the tire. When the tire pressure reaches 2.6 bar, turn off the tire inflator manually and disconnect it from the power socket.



6. If the tire is overinflated, press the pressure relief valve on the inflator.



7. After completing inflation, disconnect the inflator from the vehicle and stow it in the emergency kit.

Tire Pressure Monitoring System (TPMS)

The ES8 is equipped with a Tire Pressure Monitoring System. If one or more tires have an abnormal pressure or temperature, the instrument cluster will light up the tire pressure indicator and display the position of the faulty tire. It will also remind you to stop driving and check the tire as soon as possible, and inflate or deflate the tire to the normal range.

If a tire has an abnormal tire pressure or is deflating rapidly, the instrument cluster will light up the tire pressure indicator and the system will emit a beep to remind you to check the tire pressure. If the system functions abnormally or the tire temperature is above the rated range, the indicator will flash for 75 seconds and then stay solid , and the system will emit a beep to remind you. In this case, park the car in a safe place as soon as possible and contact NIO.

You can check the current tire pressures on the center display. If the current tire pressure is shown as "--", this means the system hasn't obtained a valid tire pressure reading, and you can check the tire pressure again after driving over 20 km/h for more than 10 minutes. If a tire is underinflated, over temperature, or has any other abnormality detected by the system, the center display will light up the position of the faulty tire and display the detailed fault information.

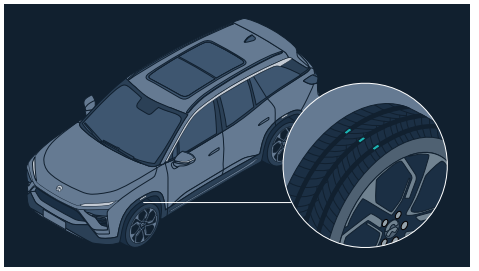
The tire pressure monitoring system is based on the tire temperature and atmospheric temperature. It may need to inflate the tire to a slightly higher pressure in order to clear the low tire pressure information.

Tire Inspection and Maintenance

For your driving safety, please inspect the tires regularly:

- Frequently inspect the tires for any signs of punctures, cuts, tears and bulges, and remove any foreign objects in the treads.
- If the tire valve cap is missing, replace the missing cap as soon as possible.
- Keep the tires away from engine oil, grease, or fuel oil.

Tires have wear indicators molded into the tread pattern. When the tread has been worn down to 1.6 millimeters or less, the indicators will appear at the surface of the tread pattern, which indicates that tire traction is significantly reduced. In this case, replace the tire immediately. Failure to do so may increase the risk of accidents.



CAUTION

- If tire wear is uneven, we recommend that you contact NIO to inspect the tire's dynamic balancing.

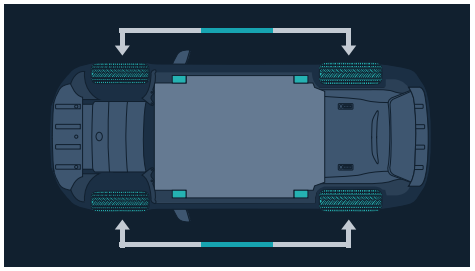
In order to reduce tire wear and extend the service life of your tires, you should regularly inspect and maintain your tires according to your driving habits and road conditions:

- Every tire requires a break-in period of 500 kilometers for optimum performance. You can break them in prudently at a proper speed to extend the service life of the tires.
- When driving over a curb or a similar obstacle, you should slow down and try to drive over the curb in a direction perpendicular to it.
- Sharp cornering, excessive acceleration, and abrupt braking can increase tire wear.
- Tire dynamic balancing has been performed before the car was shipped from the factory. We recommend performing balancing every 5,000 kilometers.
- You should have the tire dynamic balance checked after every tire replacement.
- If the vehicle can't drive straight or drifts left or right, please contact NIO to have the wheel alignment checked and adjusted if necessary.
- We recommend that the tires be aligned every 5,000 kilometers in pairs.

Winter tyres

In order to protect your car, it is recommended that you use the corresponding winter tyres in winter.

Brand	Dimension	Speed symbol & load index	Pattern
Nokian	255/55R19	111R XL	Hakkapeliitta R2 SUV
	255/50R20	109R XL	Hakkapeliitta R2 SUV
	265/45R21	108R XL	Hakkapeliitta R2 SUV
	255/55R19	111R XL	Hakkapeliitta R3 SUV
	255/50R20	109R XL	Hakkapeliitta R3 SUV
	265/45R21	108R XL	Hakkapeliitta R3 SUV
Pirelli	255/55R19	111H	S-WNT(AO)
	255/50R20	109H XL	WNT(AO)



Tire Chains

The ES8 does not come with tire chains, but you can purchase them yourself. Please pay attention to the following points when using tire chains:

- Improper tire chains can damage the tires, wheels, and brake system of the vehicle. Please carefully check the specifications of the original equipment (OE) tires and the relevant instructions provided by the tire chain manufacturer.Only 20 inch rear original tires are suitable for half pack anti-skid chain, while the rest tires are not suitable for anti-skid chain.

  We recommend Maggigroup TRAK SUV 4X4 or Konig K-Summit XXL size K67 for the ES8.

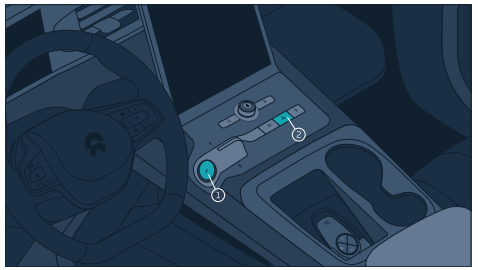
- Do not drive over 50 km/h or the speed limit specified by the tire chain manufacturer (whichever is lower).
- Drive carefully and slowly to avoid bumps, potholes, sharp turns, or wheel lock-up, which may impair the functionality of or cause damage to the vehicle.
- To avoid tire damage and excessive tread wear, tire chains must be removed when driving on roads without snow.

User Self-rescue

USER SELF-RESCUE

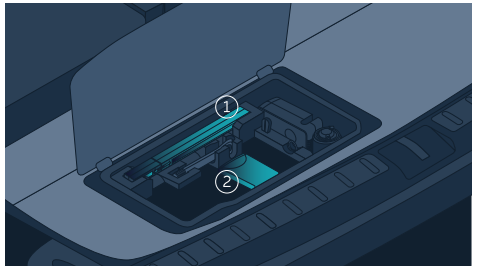
Setting Up the Warning Triangle

In case of an emergency, please slowly and steadily drive the vehicle to a safe area, press the brake pedal to stop the vehicle, and shift into PARK. Then, you should turn on the hazard warning lights by pressing the button on the center console to warn other vehicles approaching from behind.



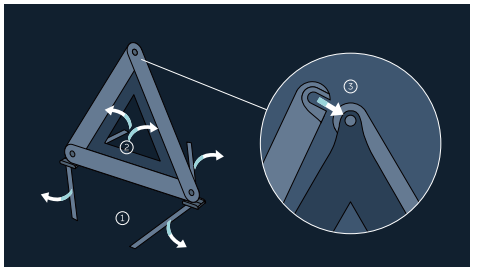
1. PARK button
2. Hazard warning light button

Open the cargo cover inside the trunk and take out the warning triangle and reflective safety vest from the emergency kit. You should put on the safety vest first, and then place the warning triangle at around 50 meters to 100 meters behind the vehicle (at least 150 meters behind the vehicle on the highway; add an additional 100 meters at night; 200 meters behind the vehicle in case of rain or fog).



1. Warning triangle
2. Reflective safety vest

Instructions for setting up the warning triangle:



1. Deploy the bracket under the triangle.
2. Unfold the two sides of the triangle.
3. Fasten the buckle on top of the triangle.

Contacting Rescue Service

In case of accidents such as collisions, floods, and battery fires, contact NIO immediately after setting up the warning triangle and wait for the rescue team.

WARNING

- In the event of a battery fire risk, the vehicle will automatically cut off power and the instrument cluster and center display will display a warning message. Make sure the surrounding area is safe and promptly leave the vehicle to call for help.

Tire Repair

WARNING

- Do not drive with a punctured tire, as it may lead to a tire blowout and endanger your safety.
- Tire sealant can irritate the eyes and skin. Keep out of reach of children.

CAUTION

- Please check the expiry date marked on the container before using tire sealant.
- If the width of the puncture on a 19-inch or 20-inch tire is below six millimeters, we recommend that you remove the foreign object and repair the tire with tire sealant. If the width of the puncture is over 6 millimeters or the tire is severely damaged, please safely stop the vehicle and contact NIO immediately for tire replacement.

- If the tire is repaired without removing the foreign object, it will cause an abnormal noise while driving and may result in a tire leak over long distances.

NOTE

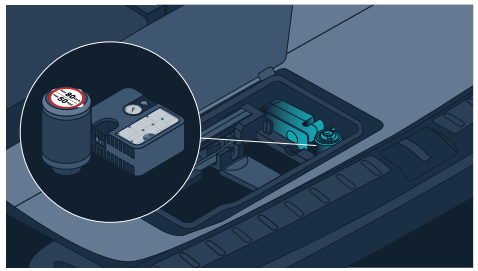
- The 21-inch tires are self-sealing tires. When the width of a tire puncture is less than five millimeters and the tire pressure shown on the center display is normal, the vehicle can still be driven under 120 km/h. Once punctured, the self-sealing tire cannot be used for a long period of time. If the tire is severely punctured or damaged, please contact NIO immediately for tire inspection or replacement.
- Please adjust the puncture to the top of the tire when repairing it.

Tire sealant can only be used to repair the tread and shoulder areas.

Park the vehicle safely on a flat and solid road as far away from traffic as possible and shift into PARK. After setting up the warning triangle and turning on the hazard warning lights, you can start repairing 19\20-inch tires with the tire sealant and tire inflator in the emergency kit:

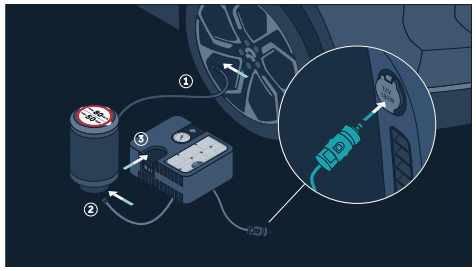
1. Park the vehicle on a safe road and set up the warning triangle in an appropriate location.

2. Open the emergency kit in the trunk and take out the tire sealant canister and the tire inflator.



3. Remove the maximum speed label from the tire sealant canister and place it on the steering wheel to remind yourself not to drive over 80 km/h.

4. Connect the tire sealant canister to the wheels, remove the tire valve cap, and connect the tire sealant hose to the valve (1). Take out the inflation hose on the side of the tire inflator and connect it to the tire sealant canister inlet valve (2). Turn the tire sealant canister upside down and slide it into the slot on the tire inflator (3).



5. Connect the power plug of the tire inflator to the 12V power socket in the vehicle.

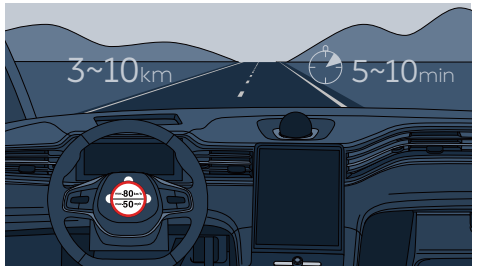
6. Make sure the vehicle is powered on, turn on the tire inflator and start to inject tire sealant into the tire. Observe the pressure gauge, and turn it off when the pointer reaches ≥ 2.2 bar (which will take around five to 10 minutes). Turn off the tire inflator and disconnect the power plug from the 12V power socket.

NOTE

- When the tire inflater begins operating, the pressure gauge will initially display a high pressure up to six bar, after which the pressure will drop to a normal range.

7. Remove the inflation hose of the tire inflator from the tire valve and stow it in the emergency kit.

8. Drive the vehicle 3 to 10 kilometers (or about five to ten minutes) at under 80 km/h to evenly spread the tire sealant.



9. Park the vehicle on a safe road, set up the warning triangle, and check the tire pressure readings on the center display. Continue driving if the tire pressure is ≥ 2.2 bar. Inflate the tire to ≥ 2.2 bar if the tire is under-inflated and drive the vehicle at a speed no higher than 80 km/h for 3 to 10 km (or around 5 to ten minutes). Check the tire pressure again. If the tire pressure is still below 2.2 bar which means the tire is severely damaged or the tire sealant cannot seal the tire, park the vehicle in a safe place and contact NIO immediately.

CAUTION

- If the tire pressure gauge is unable to reach the green zone within 12 minutes after repair then the tire is severely damaged. Please stop driving the vehicle and contact NIO.
- Tire sealant is only a temporary solution for emergencies and the vehicle can be driven for up to 200 kilometers at most. Please take the vehicle to the nearest repair shop for tire repair or replacement.

Jump Starting the Vehicle

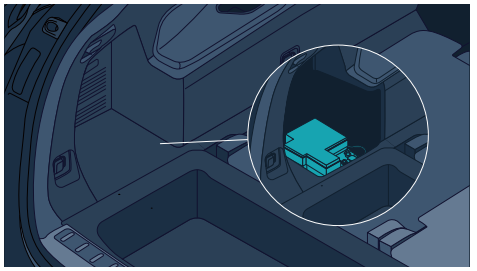
When the vehicle cannot start because the 12V battery is drained, you can jump start the vehicle by connecting the jumper cables to the 12V battery of another vehicle.

CAUTION

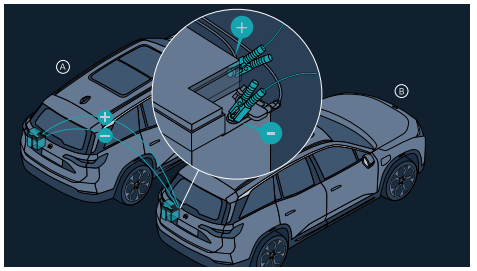
- When jump starting a vehicle, make sure the two vehicles are not in contact with each other. Otherwise, the current generated when the positive terminals of the two vehicles are connected will damage the vehicle.
- Connect the positive terminals first, and then the negative terminals.

To avoid short circuits or other damage, we recommend you observe the following procedure when you jump start the vehicle:

1. Put the vehicle in PARK, cut off the power supply of the 12V battery, make sure the jumper cables are correctly connected to the vehicle electrical system, and remove the cover of the 12V battery on Vehicle A.



2. Connect one end of the red cable to the positive (+) terminal on the 12V battery on Vehicle A.



3. Remove the cover of the 12V battery on Vehicle B and connect the other end of the red cable to the positive (+) terminal on the 12V battery of Vehicle B.

4. Connect one end of the black cable to the negative (-) terminal on the 12V battery of Vehicle B.

5. Connect the other end of the black cable to a proper earthing point of the 12V battery on Vehicle A.

6. Start Vehicle B and let it run for a few minutes. Then, start Vehicle A to check whether it can start up normally.

7. After Vehicle A starts up normally, power off Vehicle B, remove the jumper cables in the opposite order they were connected, and stow all equipment.

Emergency Unlocking From the Outside

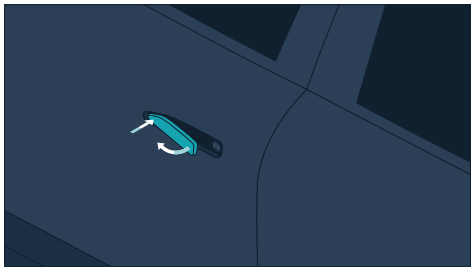
When the vehicle cannot be unlocked by conventional methods (such as a smart key fob, keyless entry, NIO app, or NFC), you can use the emergency key to unlock the driver's side door, which will simultaneously unlock all other doors.

CAUTION

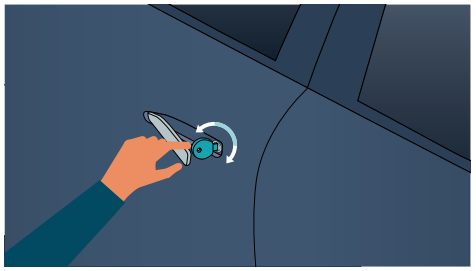
- Do not leave the emergency key in your vehicle. Please keep it safe in case of emergency.

To use the emergency key:

1. Push the front end of the exterior handle on the driver's door.



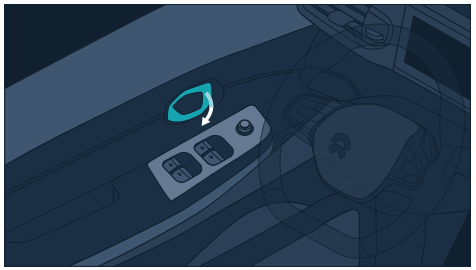
2. Pull the door handle and insert the emergency key into the lock. Rotate the key counterclockwise to lock the driver's door.



3. To lock the driver's door, rotate the key counterclockwise.

Emergency Unlocking From the Inside

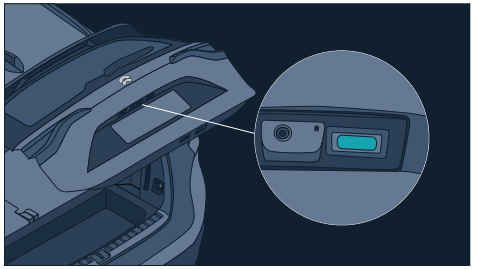
In case of emergency, you can pull the interior door handle twice to open the corresponding door.



CAUTION

- If the 12V battery is drained, you can only unlock the driver's door using the emergency key. Other doors can be unlocked and opened from the inside by pulling the corresponding interior door handle twice.
- When the Child Lock is on, the rear doors cannot be opened from the inside and can only be opened from the outside when the vehicle is unlocked.

Liftgate Button



When you are carrying a smart key fob, you can open the liftgate by gently pressing the button on the liftgate handle.

While the liftgate is opening, press and hold the button to automatically save the current liftgate height.

CAUTION

- Before opening the liftgate, ensure that it is clear of objects such as snow and ice. Otherwise, the liftgate may suddenly close on its own.

Roadside Rescue

ROADSIDE RESCUE

Replacing Tires and Wheels

If a tire cannot be repaired with tire sealant due to a severe leak, park the vehicle safely on a flat and solid road as far away from traffic as possible and shift into PARK. Set up the warning triangle, turn on the hazard warning lights, and contact NIO for tire replacement.

WARNING

- When replacing a tire, the new tire must comply with the specifications of the original one. Using a tire with different specifications may affect the vehicle's handling and result in a loss of vehicle control.
- Never get underneath the vehicle when it is lifted on a jack as this may cause severe injury or even death.
- Do not lift the vehicle when people are inside.
- Do not place any object above or underneath the jack when it is lifting the vehicle.

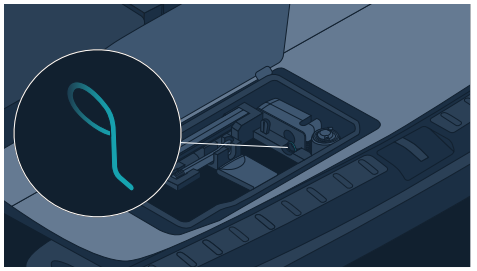
Follow the instructions to replace the tire:

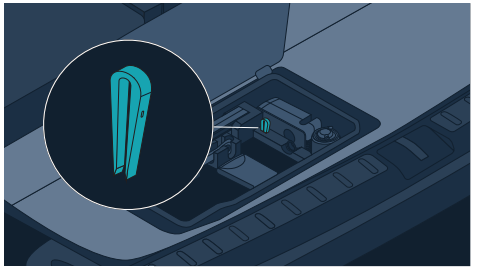
1. Prepare a jack and a spare tire of the correct specifications.

2. Place a stopper in front of the tire diagonal to the flat tire to prevent the vehicle from slipping.

3. Enter Jack Mode to maintain the suspension at the current height and avoid height changes during tire replacement.

4. Remove the wheel hub cap with the removal tool in the emergency kit and then turn the lug wrench counterclockwise to loosen the lug nuts.

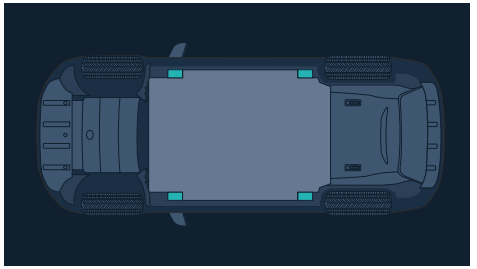




CAUTION

- Tire rims have a special protective coating. When removing or installing lug nuts, tires or rims, take reasonable precautions to protect the rim's surface from accidental scratches caused by hard or sharp objects.

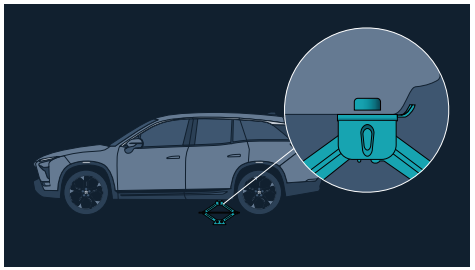
5. Position the jack at the correct jacking point.



WARNING

- Make sure the jack is positioned correctly under the jack point. Failure to do so may damage the vehicle, or the vehicle may slip off the jack and cause injury.

6. Jack up the vehicle until the flat tire is sufficiently above the ground. When lifting the vehicle, ensure the jack is properly positioned.



7. Remove the lug nuts and change the flat tire. When mounting the new tire, ensure the lug nuts are aligned with the mounting holes and the metal surface of the rim is in proper contact with the mounting surface.

8. After installing the lug nuts, use the jack to lower the vehicle to the ground and exit the Jack Mode on the center display. Tighten all the lug nuts clockwise with the lug wrench. Then, use a torque wrench to tighten the lug nuts to the specified torque.

9. Check the tire pressure after replacement. If necessary, inflate the tires to the rated range, and then replace the tire valve cap.

10. Properly stow all the tools, the jack, and the flat tire.

Personal Protective Equipment

The powertrain system is powered by the high voltage battery. Severe collisions and impacts may cause electrical leakage or electrolyte leakage. Therefore, rescue operations should be carried out by professionals who must wear personal protective equipment.

WARNING

- Remove all metal objects (such necklaces and watches) before carrying out any operation. Failure to do so may increase the risk of electric shock.

Electrical Protection

Wear the following protective equipment to avoid high voltage electric shocks:

- Rubber insulating gloves (over 500V insulation resistance)
- Goggles
- Rubber insulating boots
- Insulated tools

Chemical Protection

In case of electrolyte leakage, wear the following protective equipment to prevent skin and facial injuries:

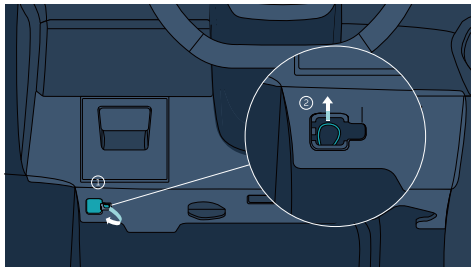
- Protective face shield
- Chemical-resistant gloves

High Voltage Cutoff

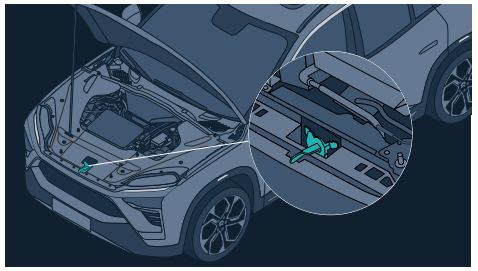
To cut off the high voltage circuit, disconnect the emergency high voltage cutoff plug (located under the hood and near the coolant reservoir), and then disconnect the cable connected to the negative terminal of the 12V battery (located in the left area of the trunk).

To cut off the high voltage circuit:

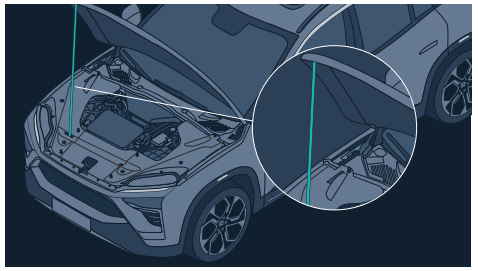
1. Open the hood handle cover in the cabin (Figure 1) and pull the hood release cable to unlatch the hood (Figure 2).



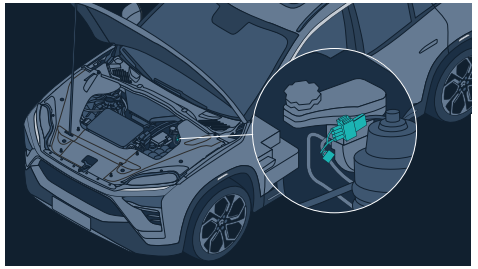
2. Toggle the hook under the hood to release it and lift the hood up.



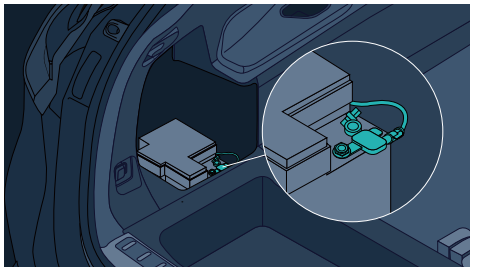
3. Take out the hood prop rod from the clip and position it appropriately to support the hood.



4. Disconnect the emergency high voltage cutoff plug to cut off the high voltage circuit. Remove the plug and stow it appropriately.



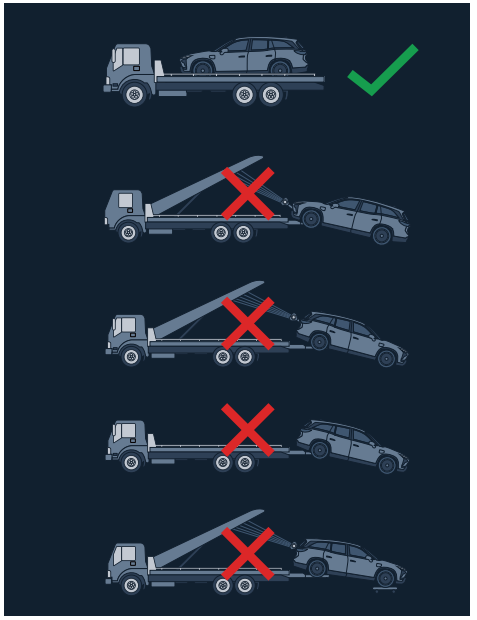
5. Remove the 12V battery cover on the left side of the trunk and disconnect the cable connected to the negative terminal of the battery. Wrap the cable with a protective layer to avoid conduction due to accidental contact.



Transporting the Vehicle

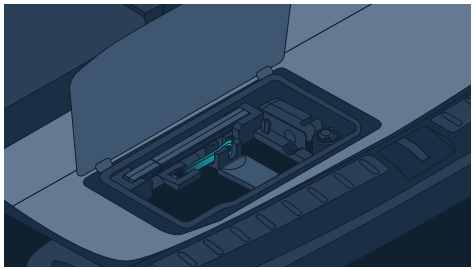
CAUTION

- Do not tow your vehicle when the tires are touching the ground and do not tow the vehicle directly with tow chains.

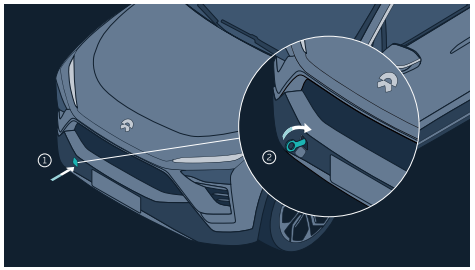


When necessary, transport the vehicle with a flatbed truck.

1. Take out the tow bar from the emergency kit in the trunk.



2. Release the tow bar cover by pressing firmly on the lower end of the cover (Figure 1). Fully insert the tow bar into the opening and rotate it until securely fastened (Figure 2).



3. Keep the vehicle in PARK, press the brake pedal, enter “N” Mode. The vehicle will release the parking brake and enter tow mode (to prevent sliding, use the wheel stopper accordingly).

4. Before towing, power off the vehicle and turn on the hazard warning lights to ensure that the whole vehicle is locked and no occupant is in the vehicle.

5. Attach the tow chain to the tow bar and slowly tow the vehicle to the flatbed truck.

6. After pulling the vehicle onto the flatbed truck, use the wheel stopper and straps to secure the tires onto the truck.

7. Before transporting the vehicle, exit “N” Mode on the center display and touc Jack Mode to maintain the suspension at the current ride height and avoid height changes during transportation.

CAUTION

- The vehicle can only be towed from the site when there are no safety risks in doing so. If the high voltage battery is deformed, leaking or emitting smoke, address the risk posed by the high voltage battery first.
- Try restarting the 12V battery if “N” Mode cannot be turned on normally. If the park brake cannot be released, use a tow dolly or a trailer to transport the vehicle a short distance.
- Do not slam on the brake pedal or accelerator pedal when exiting “N” Mode on the center display.

Accident Rescue

ACCIDENT RESCUE

Rescuing the Vehicle in Water

CAUTION

- When driving, do not submerge the vehicle in deep water for a long period of time. Otherwise, the vehicle's high voltage components may be damaged.

If the vehicle body and chassis are not damaged, there will not be any additional risks of electric shock. However, the rescue of a submerged vehicle should be carried out by professionals who must wear personal protective equipment. During rescue operations, first pull the vehicle out of the water and then cut off the high voltage circuit.

Rescuing Vehicle Fire

WARNING

- In the case of a vehicle fire, do not directly touch any part of the vehicle. All rescue operations should be performed by professionals who must wear appropriate personal protective equipment.
- The gas stored in the side curtain airbag cylinder and the high pressure air suspension tank may expand and explode under high temperatures. Please act with caution to avoid injury.

If the vehicle fire doesn't involve the high voltage battery, you can use the fire extinguisher to put out the fire.

If the vehicle fire is caused by the high voltage battery or the high voltage battery is overheated, deformed, cracked, or damaged in the fire, use a large amount of water or foam extinguishing agent mixed with water (F-500 EA is recommended) to cool down the high voltage battery. After the battery is completely cooled down (which may take up to 24 hours), monitor it for one more hour to ensure the battery does not heat up again. Then, drive the vehicle to an open and flat area and set up a 15-meter safety zone to keep people away from the vehicle.

WARNING

- Be aware that a high voltage battery may re-ignite even after it is cooled down. Particular attention should be paid when transporting the battery.

Rescue With Battery Leak

WARNING

- If leakage from a high voltage battery is caused due to an impact, the rescue should be performed by professionals who must wear protective face shields and chemical-resistant gloves. Never make direct contact with the fluids.

When the high voltage battery leaks, it may generate heat or even cause a fire. Cool down the high voltage battery first and then clean up the fluids.

- If the leak is not severe, use a liquid absorbing pad to clean up the fluids and then place the used pad in a closed container or use a professional incineration process to dispose of the fluids.
- If the leak is severe, dispose of the fluids following the disposal guidelines for hazardous chemical waste. Pour calcium gluconate solution over the leaked fluids and use gas collection and control devices to dispose of leaked gases.

CAUTION

- If any fluids accidentally get on the skin, remove the contaminated clothes and rinse the skin with soap under running water for 15 minutes until all chemical residues are removed. Seek medical attention immediately if the irritation or discomfort doesn't improve.

Vehicle Extrication

WARNING

- When professional rescuers perform cutting operations, they must use appropriate tools such as a hydraulic cutter and wear appropriate personal protective equipment to avoid serious injury.

The vehicle pillars use aluminum castings to better protect the occupants in case of an impact. Use appropriate tools to cut the pillars during rescue. Do not cut any high temperature or high voltage areas on the vehicle, such as airbag components and high voltage components, as indicated by the red areas below.