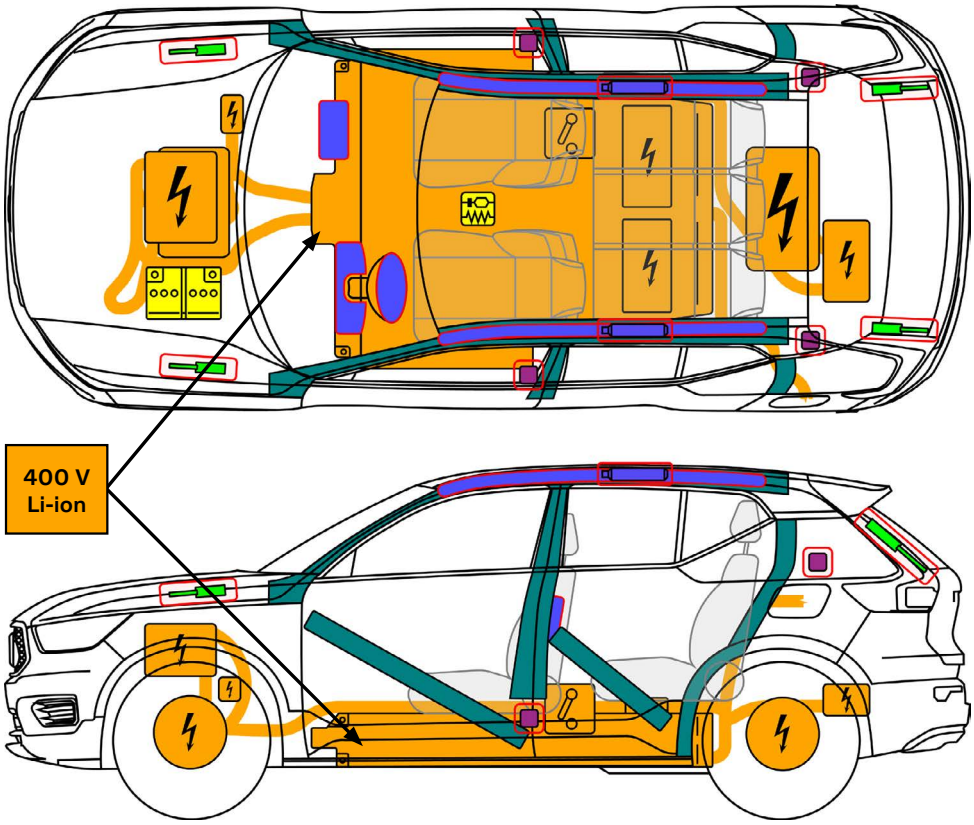
Information for first and second responders
Emergency response guide for vehicle

EX40

400V
Lithium-ion
Battery

VOLVO

VOLVO	Volvo EX40 Electric 5dr SUV (2025 -)		



Airbag

Stored gas inflator

Seat belt pretensioner

SRS control unit

Battery low voltage

Gas strut / Preloaded spring

High strength zone

High voltage device that disconnects high voltage

High voltage component

Battery pack, high-voltage

High voltage power cable

Volvo EX40 Electric 5dr SUV (2025 -) Additional Pages

1. Identification / recognition

LACK OF ENGINE NOISE DOES NOT MEAN VEHICLE IS OFF. SILENT MOVEMENT OR INSTANT RESTART CAPABILITY EXISTS UNTIL VEHICLE IS SHUT DOWN. WEAR APPROPRIATE PPE.

Brand name front

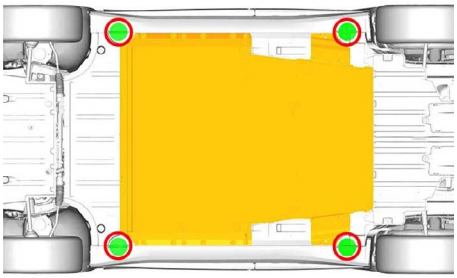
Model name rear

Charge port

2. Immobilisation / stabilisation / lifting

Immobilise vehicle:

1. Block wheels and set parking brake
2. Push the P (park) button to select the P (park) position



Lifting points:

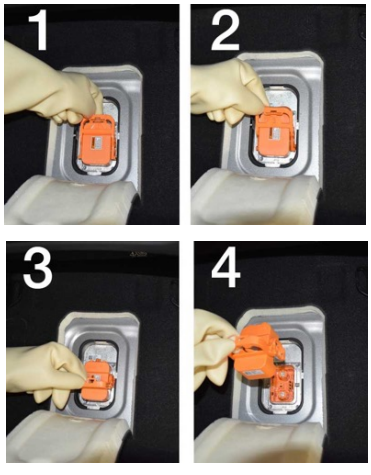
Appropriate lifting points

High voltage battery

3. Disable direct hazards / safety regulations

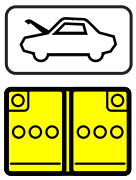
The propulsion system is disabled when the 'Safety mode See Manual' indicator in the instrument cluster is illuminated.

Deactivation of propulsion system, if 'Safety mode See Manual' indicator is not illuminated:



Volvo EX40 Electric 5dr SUV (2025 -) Additional Pages

Disconnect 12 Volt battery

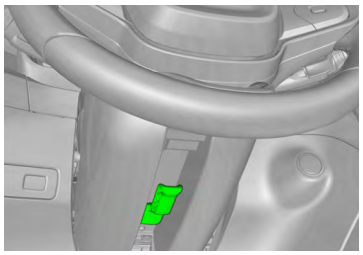


Safety instructions

Always assume the vehicle is powered, even if it is silent!
Make sure that the vehicle is immobilized and the propulsion system is deactivated; Never touch, cut, or open any orange high voltage power cable or high voltage component; In case of a collision with seat belt pretensioner activation / airbag deployment, the high voltage system will be disabled automatically. The restraint systems are still active.

4. Access to the occupants

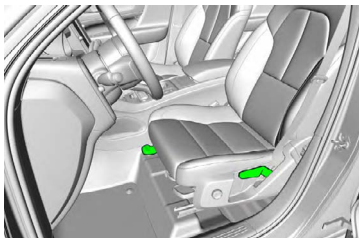
Steering wheel, tilt control



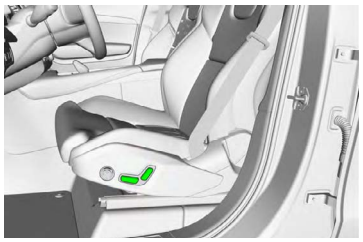
Glass types

A. Laminated glass
B. Tempered glass

Manual seat adjustment



Electrical seat adjustment



5. Stored energy / liquids / gases / solids

Li-ion	**400V**	
	12V	
	R-1234yf **395 g - 445 g**	

When conventional coolant leaks (check reservoir) from the high voltage (HV) battery cooling system, HV-battery can become unstable with risk of thermal runaway. An increasing HV-battery temperature might be an indicator of thermal runaway.

IR

Volvo EX40 Electric 5dr SUV (2025 -) Additional Pages

6. In case of fire

Extinguishing method for the high voltage (HV) battery:

LARGE AMOUNTS OF PURE WATER

POTENTIAL RISK OF HV-BATTERY FIRE RE-IGNITION / DELAYED FIRE!

7. In case of submersion

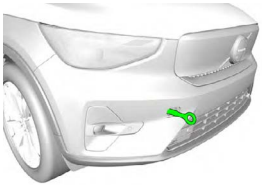
- There is no increased risk of electric shock in water resulting from the high voltage system
- If possible, remove the vehicle from the water and continue with the deactivation procedure for this vehicle (see chapter 3)

8. Towing / transportation / storage

Recovery hook storage

Location rear hook

Location front hook



STORE VEHICLE IN AN OPEN-AIR PARKING AT A SAFE DISTANCE ≥ 5M FROM OTHER OBJECTS OR VEHICLES!

POTENTIAL RISK OF HV-BATTERY FIRE RE-IGNITION / DELAYED FIRE!

Towing

10. Explanation of pictograms used

	Remove smart key		Electric Vehicle
	Warning, Electricity		Flammable
	General warning sign		Hazardous to the human health
	Warning; low temperature		Acute toxicity
	Air-conditioning component		Corrosives
	Use water to extinguish the fire		Explosive
IR	Use thermal Infrared camera		Bonnet

Introduction Electrical Vehicle Emergency Response Guide

This publication is intended for rescue personnel especially trained for rescue operations at vehicle accidents. The folder shows EX40 equipped with all optional and accessory equipment.

For information about the vehicle's features, embedded systems and safety systems we refer to the owner's manual available digitally in the center display of the vehicle.

This guide is intended to be used by trained first responders and rescuers and assumes that the reader has professional level skills in safely responding to emergencies and rescue situations described in this guide, including those involving damaged vehicles. This guide is not intended for retailers, end consumers or any other reader that is not described in the preceding sentence. This guide may be updated by Volvo Cars at any time. This guide applies to the Volvo EX40 fully electric vehicle only and includes information about the specific vehicle's structure and components, including location and description of high voltage components. While failure to follow this guide may result in serious injury or death, each emergency situation is unique and this guide may not address every scenario and even if this guide is followed, serious injury or death may occur.

Special texts

WARNING

Warning texts appear if there is risk of injury.

IMPORTANT

Important texts appear if there is risk of damage.

NOTE

Note texts give advice or tips that facilitate the use of e.g. features and functions.

Option/accessory

We continuously work to develop and improve our products. Modifications can mean that information, descriptions and illustrations in this publication differ from the equipment in the vehicle. We reserve the right to make changes without prior notice.

Vehicles may be equipped differently depending on market requirements and national or local laws and regulations. In addition to standard equipment, the vehicle can also have been modified with optional equipment (factory-installed equipment) and certain accessories (extra retrofitted equipment).

All, at the time of publication known, options and accessories are marked with an asterisk: *.

Contents

Contents

Electric vehicle recognition

The EX40 can be identified as an electric vehicle in a number of places.

1. Traction battery
2. Driver display
3. Frunk
4. No open grille
5. Charging lid
6. No exhaust pipes

Charging lid

The charging lid is placed on the driver's/left side of vehicle.

Frunk

Due to absence of an Internal Combustion Engine (ICE), there is a front luggage compartment under the hood.

No exhaust pipes

There are no exhaust pipes for the EX40.

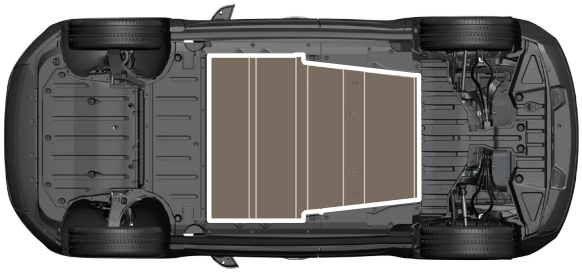
No grille

There are no open grille on the EX40.

Driver display

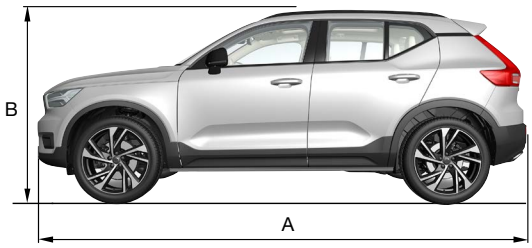
Battery symbol in the driver display shows that the vehicle is a hybrid or a battery electric vehicle (BEV).

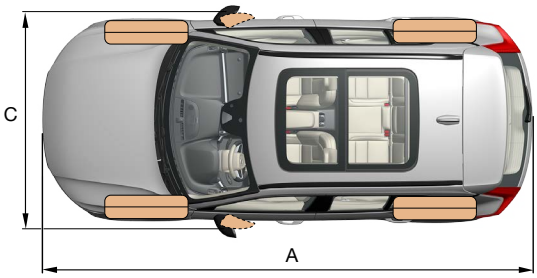
Traction battery



The traction battery is placed under the vehicle. The aluminum base of the battery system is visible from underneath the vehicle.

Basic parameters of the vehicle[1]



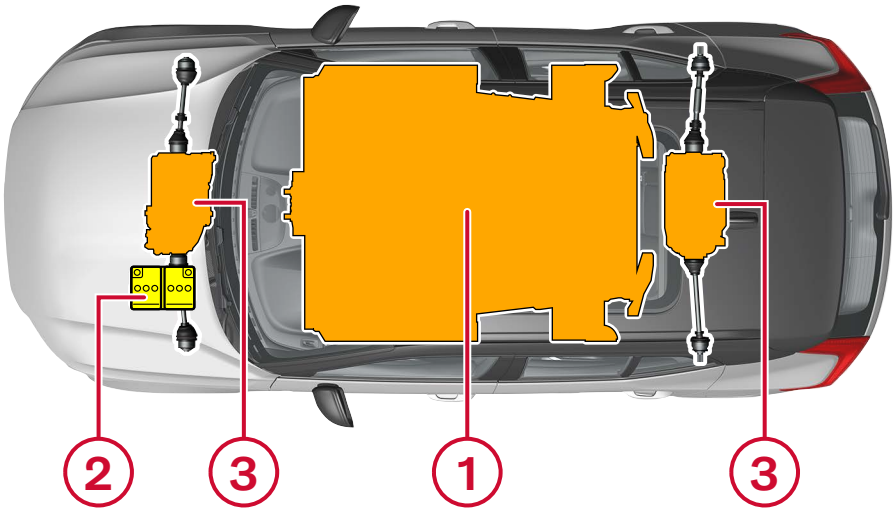


	Dimensions	mm	Inches
A	Length	4440	174.8
B	Height for kerb weight	1651	65
C	Width including folded-in door mirrors	1938	76.3

Vehicle category:	SUV
Authorized passenger number:	The standard is 3-5, but it depends on the amount of seat belts in the vehicle.
Max. authorised total mass (kg):	
Single Motor	2470
Single Motor Extended Range	2520
Twin Motor	2650
Twin Motor Performance	2650

1. These numbers are the standard and may vary depending on the equipment of the vehicle. Look at the information decal for more information.

High voltage components



① Traction battery

② 12V battery

③ Electric motors

Traction battery specifications

The traction battery consists of a number of modules in series. The nominal voltage depends on the battery's state of charge.

Cell type	Lithium-ion
Nominal Voltage	397-403V
Stored Energy	69-82 kWh
Weight	445-495 kg
Dimensions	1855 x 1464 x 360 mm (length x width x height)

Warning marking information

High voltage cables are colored in orange. Do not cut through high voltage cables.

Warning symbol for high voltage component.

An example of a label located on a high voltage component is shown below.

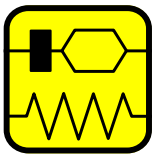
Left door post information decal

The vehicle is equipped with information decals. The certification label on the driver's side B-pillar (the structural member at the side of the vehicle, at the rear of the driver's door opening) shows information for the vehicle, such as VIN code etc.

Vehicle stopping operations

For information of how to disconnect the traction battery, please see section 03 DISABLE DIRECT HAZARDS / SAFETY REGULATION.

Crash



In the event of a collision, the Supplemental Restraint System (SRS) module sends a signal to the Central Electronic Module (CEM), stating that a collision has occurred. In this stage, the vehicle assumes Crash mode and the high voltage system disconnects automatically. For safety reasons, the vehicle has limited functionality.

The passenger protection system, such as belt pretensioners and airbags are activated.

Automatic activation of the parking brake

The parking brake is activated automatically:

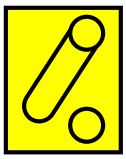
- if the car has entered Crash mode.
- if the driver unbuckles the seatbelt and/or
- opens the driver's door,
- when the vehicle is switched off manually in the center display,
- if the function Hold (brake when stationary) is activated and the vehicle has been stationary for a while (approx. 10 minutes).

Shifting the gear position to parking gear - P-mode

To shift the gear to P-mode, push the P-button located next to the gear selector on the armrest console. The vehicle must be at a standstill when selecting the parking gear.

> **NOTE**
>
> If the battery voltage is too low, the electrical parking brake can neither be released nor used.
>
> When possible, always apply the parking brake when the vehicle is standing in a slope. Only putting the gear in P-position is not sufficient to stop the car. Turn off and stabilize vehicle

Automatic deactivation of the vehicle



The vehicle is switched off automatically from drive mode if the vehicle has entered Crash mode or when the driver leaves the vehicle and it is parked.

1. Activate the parking brake.
2. Open the driver's door.

   > The vehicle is now not in Drive mode.

Manual deactivation of the vehicle

It is possible to switch off the vehicle manually.

1. Activate the parking brake.
2. Press the symbol .
3. Press **Controls**.
4. Select **Power off car**.

   > The vehicle is now not in Drive mode.

NOTE

When the vehicle is turned off manually from the center display, the screens in the vehicle turns off. If the door opens the screens turns on again and the car is activated.

WARNING

Shutting off power to an electrical vehicle does not de-energize the traction battery, and a shock hazard may still be present.

Even though the vehicle is set to a state that is not the Drive mode, the vehicle can still be in an active state.

Stabilizing the vehicle with stop chocks

Stabilize the vehicle with stop chocks under the wheels. Stop chocks to be placed in front of or behind the wheels.

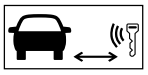
WARNING

Never stabilize the vehicle under the traction battery.

If the stop chocks are placed in contact with the battery it can be damaged which can be dangerous.

If the battery gets damaged it poses a threat which can result in personal injury or death.

Remote control key range



The vehicle is equipped with a key less system which activates the vehicle when entering the driving seat and closing the drivers door.

IMPORTANT

Make sure that the key is removed from the vehicle to avoid unintentional activation. Keep the key in a safe distance from the vehicle.

The key works within a certain distance from the vehicle:

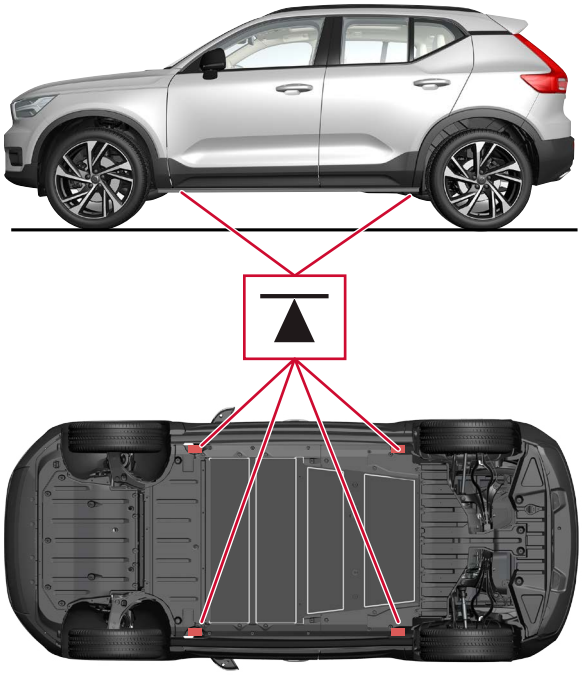
Usage	Range
Manual use (by pushing the buttons on the key)	Approx. **20 metres** (**65 feet**) from the vehicle
Keyless use (with a remote control key or button less key	A semicircular area with a radius of approx. **1.5 metres** (**5 feet**) on both long sides and approx. **1 metre** (**3 feet**) from the tailgate.

Lifting

The traction battery is located under the vehicle. Use the lift areas shown in the image below. A large section of the undercarriage houses the traction battery. When lifting or stabilizing the vehicle, only use the designated lift areas, as shown in below.

WARNING

When lifting the vehicle, do not lift under the traction battery!



Disconnection of high voltage

Automatic disconnection

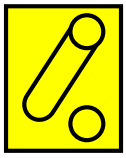
If a serious accident has occurred that has either triggered an airbag to deploy or the seatbelt pre-tensioner to activate, the traction battery pack is automatically disconnected from the rest of the high voltage system.

Make sure the traction battery is disconnected before starting any rescue procedures. Please see the section "High voltage Manual service disconnect" in this chapter.

WARNING

Residual voltage can remain in the system outside the traction battery for approximately 10 seconds after the accident.

Secure that the vehicle is stabilized and turned off

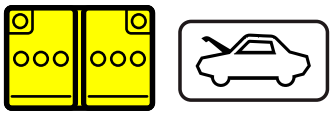


When possible, always make sure that the vehicle is turned off and stabilized. See chapter 02. IMMOBILISATION/ STABILISATION/LIFTING for more information.

Disconnection of the 12V battery

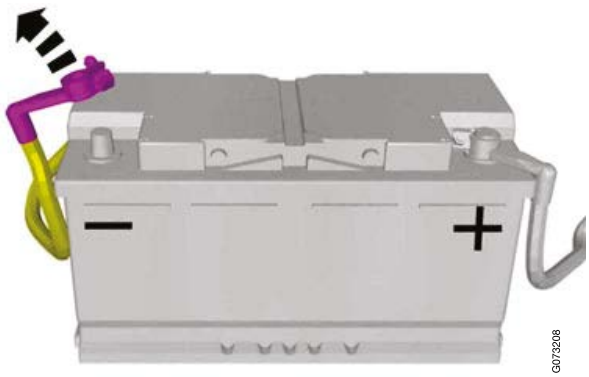
IMPORTANT

If the power front seats need to be adjusted, this must be done before the 12V battery is disconnected, please see the section "Adjusting the seats and steering wheel" in chapter 04. ACCESS TO THE OCCUPANTS.



1. Open the hood.

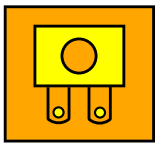
2. Identify the 12V battery.



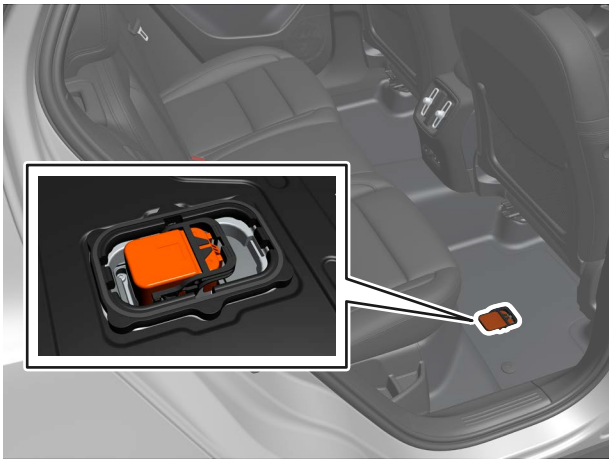
3. Locate the 12V battery's charging points and disconnect the 12V negative cable.

If the 12V battery is to be disconnected completely, the ground/minus pole must be disconnected, otherwise there is a risk of short circuits. The negative pole must be protected against renewed contact (insulation, tying away, bending away). If the battery is disconnected, it should be checked whether the vehicle is actually voltage-free. The extinguishing of the hazard warning lights or the interior lighting can serve as a sign.

High voltage Manual service disconnect

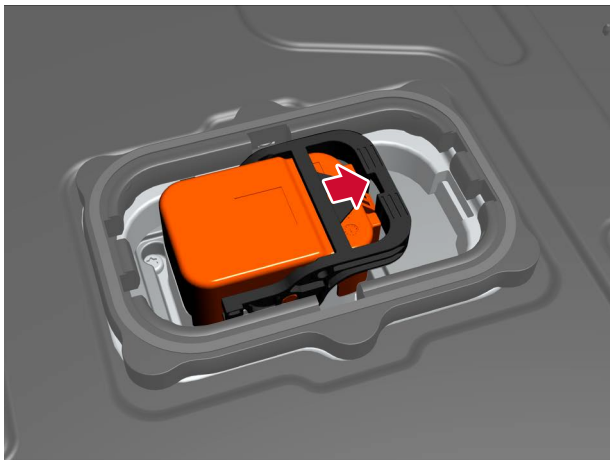


The vehicle has a manual high voltage service disconnect plug. The high voltage service disconnect plug is located in front of the right rear passenger under a flap that must be opened. The orange rubber protective cap underneath the flap must be removed. Please see the location below.

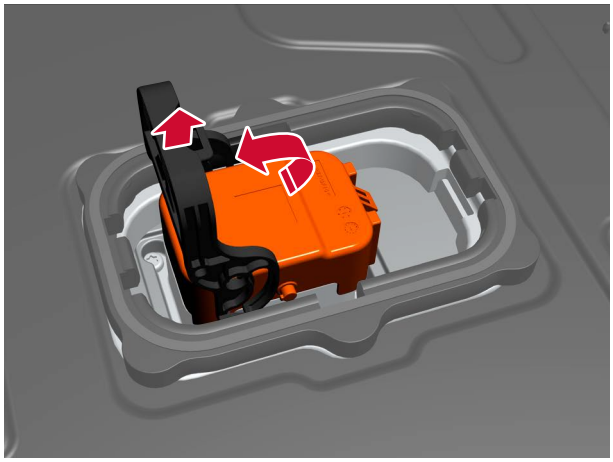


Disconnect the high voltage service plug

This operation also disconnects the traction battery from the rest of the system.



1. Pull the lever to the rear.

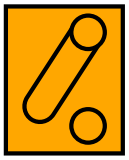


2. Turn lever upwards and pull out plug in upward direction.

WARNING

- Shutting off power to an electrical vehicle does not de-energize the battery, and a shock hazard may still be present.
- If not absolutely necessary, do not touch any of the high voltage harnesses and/or components. Touching high voltage components, wires or harnesses might result in great personal injury or death.
- If the situation requires operations on any of the high voltage components and/or harnesses, always wear the appropriate PPE to avoid electrical shock. A failure to do so can result in serious injury or death.
- NEVER assume that the electrical vehicle is turned OFF because it is silent. The electrical motor is silent and may still be running. When possible, always take appropriate actions to turn the vehicle completely off and disconnect the high voltage system before performing rescue operations.
- Regardless of which procedure is used to disable the high voltage system, always assume that high voltage components are energized. Take proper actions to avoid unnecessary risks.

Discharge of residual voltages



In case of an accident with airbag and/or belt pretensioner activation or after an unexpected malfunction, the discharge circuit ensures that the high voltage system is free from voltage after approximately 10 seconds.

After switch-off/deactivation of the vehicle the high voltage system is also de-energized after approx. 10 seconds!

Personal protection clothing and emergency equipment

Use insulated clothing, such as gloves and shoes as well as a safety shield specified to be able to withstand up to 1000 V.

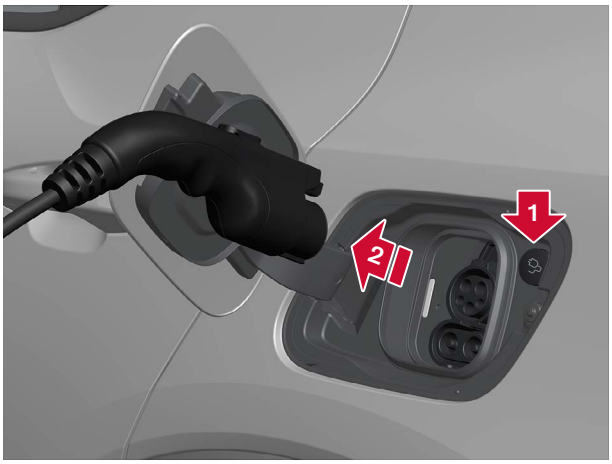
Use insulated tools when working on the vehicle and its components. Use solvent resistant protection gloves and shoes in the event of a traction battery electrolytic solution leakage.

Ending the charging of the traction battery

1. End charging by pressing the button next to the charging input socket or via the button in the center display.

IMPORTANT

Before unplugging the charging cable from the vehicle's charging input socket, charging must be ended using the button located next to the charging input socket. This must be carried out even if the doors on the vehicle are already unlocked. If charging is not ended before the charging cable is disconnected, this may lead to damage to the charging cable or to the system.



2. Depress the lock control in the charging cable handle - the charging cable's locked handle releases/is unlocked. Then unplug the cable from the vehicle's charging input socket and close the hatch.

The charging cable is locked automatically

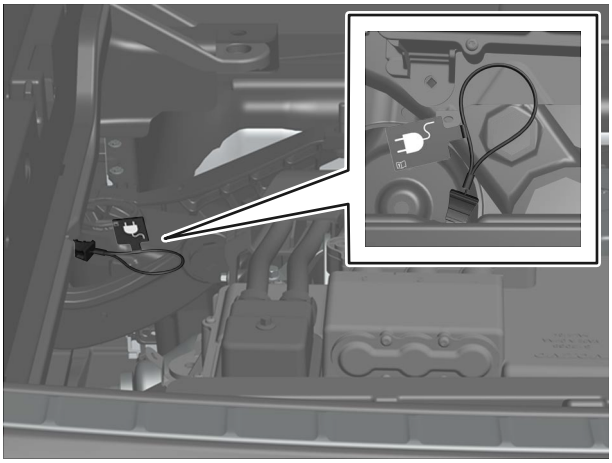
If the charging cable is not unplugged from the charging input socket, it is locked in again automatically shortly after unlocking. The charging cable can be unplugged again using the button next to the charging input socket or via the button in the center display.

Unplugging the charging cable with the mechanical emergency handle

If the charging cable will not unplug from the vehicle's charging input socket when charging has been ended (via the button next to the charging input socket, in the center display, or via the charging station's user interface) and the vehicle is equipped with mechanical emergency handle, follow the instructions below.

WARNING

Before using the emergency handle, check in the driver display that charging is complete. Do not use the emergency handle while charging is in progress. If the charging cannot be ended, turn off the power to the charging socket before using the emergency handle.



When the charging cable cannot be unplugged from the charging input socket, unplug the charging cable using the mechanical emergency handle.

03. DISABLE DIRECT HAZARDS / SAFETY REGULATION

1. Open the vehicle's cargo area and fold up the load floor. Lift away the recessed floor panel.

   > The mechanical emergency handle is located under the floor panel.

2. Grasp the emergency handle and pull it until it stops.
3. Move the emergency handle back in its original location.

   > The emergency handle travels back automatically the next time charging begins.

4. Wait approximately 5 seconds before unplugging the charging cable from the vehicle's charging input socket.
5. Refit the floor panel and fold down the load floor. Close the vehicle's cargo area.

Access to the occupants

Before attempting to access occupants, inspect the level of damage of the electrical vehicle using caution.

Look for indicators that the high voltage system has been damaged, such as:

- High voltage component casings are damaged
- The harnesses are damaged or cut
- Arcing or sparking
- Smoke
- Offensive odor

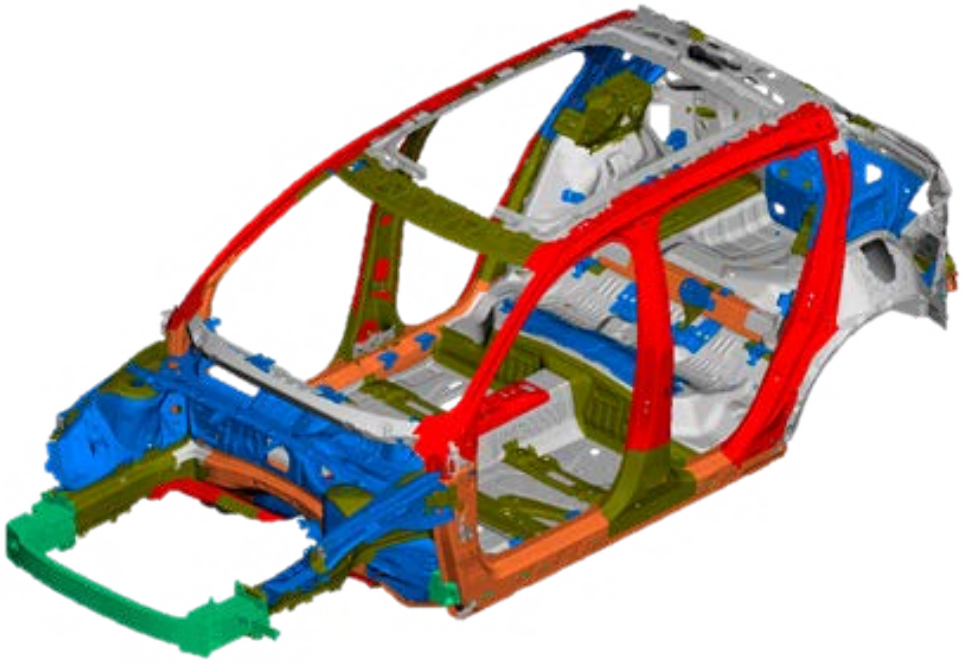
In the event of a serious accident, the traction battery pack is automatically disconnected, even if it happens always make sure the traction battery is disconnected before starting any rescue procedures.

WARNING

Operating on the vehicle when the high voltage system is damaged can pose a great risk of personal injury or death. Take extreme care and use caution when performing rescue operations.

Body framework

The body consists of five different grades of steel (steel alloys). Please see the differences in below overview image.

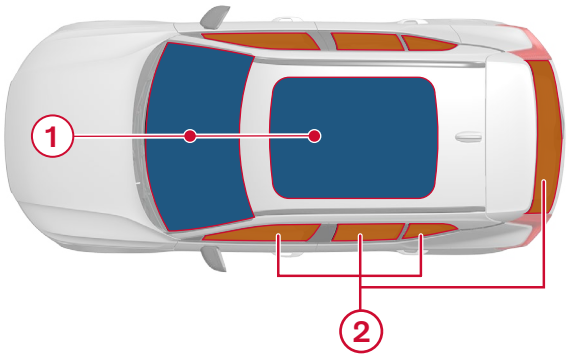


1. Mild steel
2. High strength steel
3. Very high strength steel
4. Extra high strength steel
5. Ultra high strength steel
6. Aluminium

Glass types

The vehicle is equipped with several different types of windows, glass and mirrors. Some of the windows in the car are laminated.

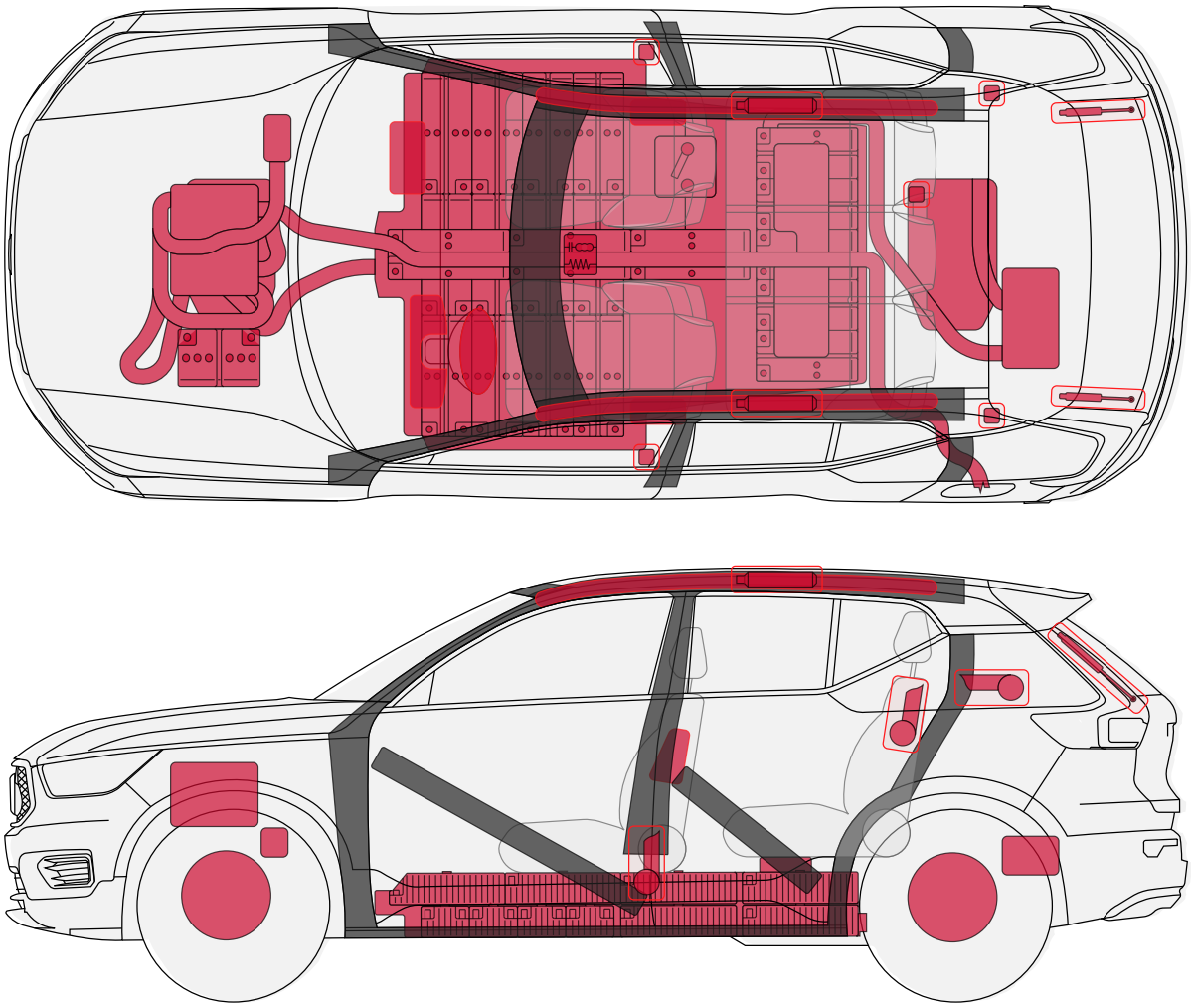
The windshield and the panoramic roof has laminated glass.



1. Laminated glass
2. Tempered glass

No-cut zones

Use appropriate tools like a hydraulic cutter. The areas which are high-lighted in the image below are not allowed for cutting.



WARNING

Do not cut in any high voltage related areas, gas struts, gas generators, airbags or other hazards, it can result in serious personal injury or death from electrical shock.

WARNING

The traction battery is located below the floor pan. Never push on the floor pan inside the vehicle. Doing so can breach the traction battery or damage the high voltage cables, which can cause serious injury or death.

Adjusting the seats and steering wheel

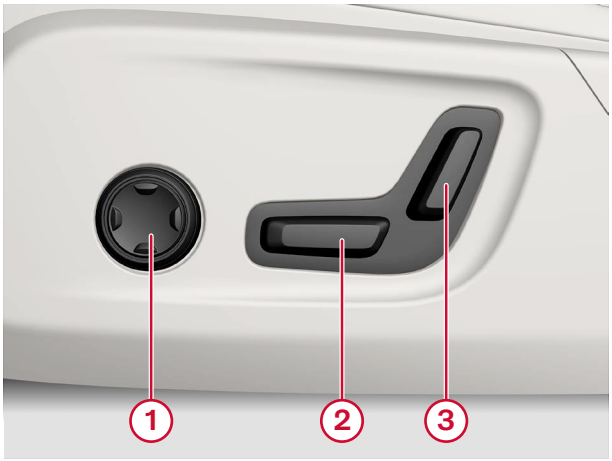
Adjusting the manual front seat

1. Adjust the seat forward/backward by lifting the handle.
2. Raise/lower the seat by means of pumping the lever up/down.
3. Change the backrest inclination by turning the control knob.

Adjusting the power* front seat

For vehicles with power front seats, the front seats are adjusted from the control on the front seat's seating section.

> **IMPORTANT**
>
> If the power front seats need to be adjusted, this must be done before the 12V battery is disconnected.

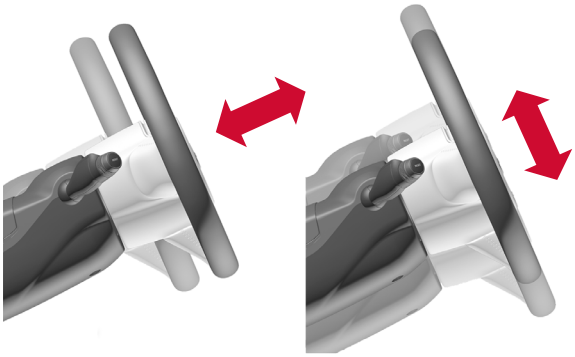


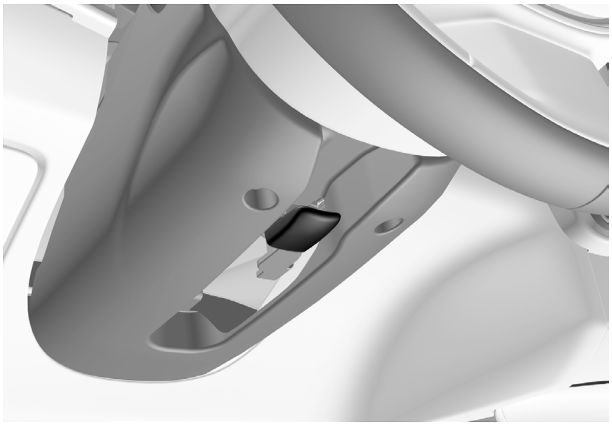
1. Move the seat forward/backward by adjusting the control forward/backward.
2. Raise/lower the seat by means of adjusting the control up/down.
3. Change the backrest inclination by adjusting the control forward/backward.

Only one movement (forward/back/up/down) can be made at a time. The backrests of the front seats cannot be lowered fully forward.

Adjusting the steering wheel

The steering wheel can be adjusted in different positions.

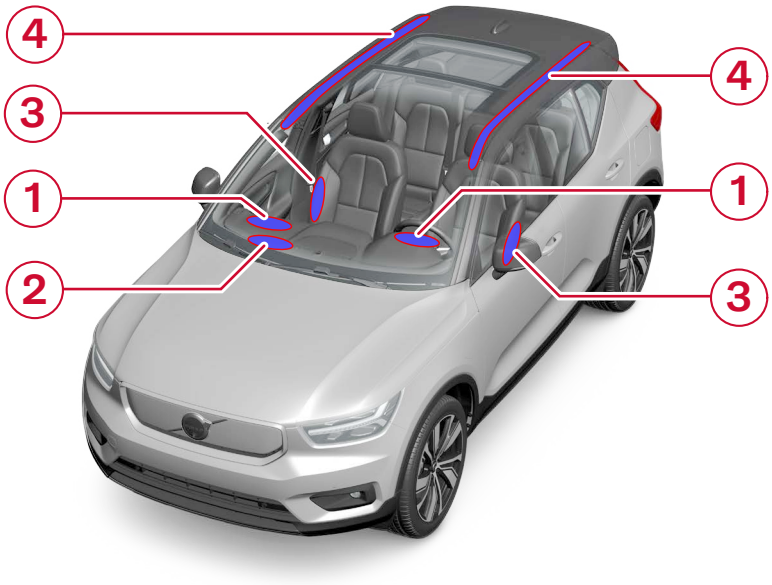




1. Push the lever forwards to release the steering wheel.
2. Adjust the steering wheel to wanted position.
3. Pull the lever back to fix the steering wheel in place. If the lever is stiff, press or raise the steering wheel slightly at the same time as you move the lever back.

Airbags and seat belt pretensioners

The vehicle is equipped with a number of different airbags in order to assist in protecting driver and passengers.



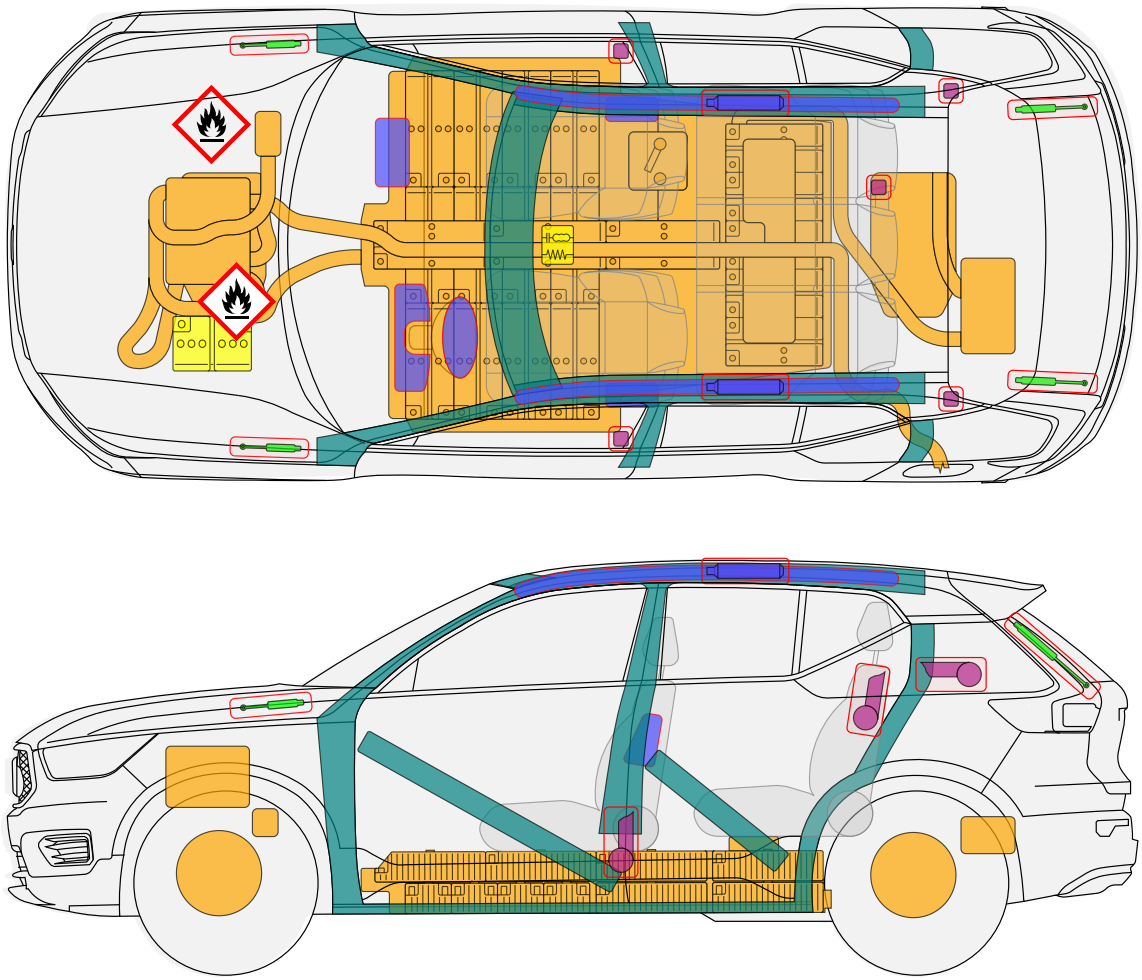
1. Front airbags
2. Knee airbag
3. Side airbags
4. Inflatable curtains

In addition to the airbags the seat belts helps reducing the injuries to occupants of the vehicle. Seat belt pretensioners are placed in connection to the seat belts. Please see the section "Component overview" in chapter 05. STORED ENERGY / LIQUIDS GASES /SOLIDS for an overview of the placement of the seat belt pretensioners.

WARNING

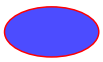
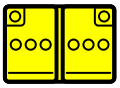
The airbag system's control module is located in the center console. If the center console is drenched with water or other liquid, disconnect the cables to the 12V battery. Do not attempt to turn on the ignition since the airbags may deploy. Recovering the vehicle. Volvo recommends that it is transported to an authorised Volvo workshop.

Component overview



WARNING

The battery assembly cover should never be breached or removed under any circumstances, including fire. Doing so might result in severe electrical burns, shocks, or electrocution.

Figure	Meaning
	Airbag/side air curtain
	Battery, low voltage

05. STORED ENERGY / LIQUIDS / GASES / SOLIDS

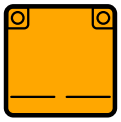
Figure	Meaning
	Traction battery, high voltage
	Airbag inflator
	Gas strut/Preloaded spring
	High voltage power cable
	Seat belt pretensioner

Figure	Meaning
	Reinforced structure of vehicle body
	High voltage emergency disconnect
	SRS Control unit
	Brake fluid container
	Coolant system (std glycol)

First Aid Measures

Under normal conditions of use, the traction battery and the high voltage system do not present any risk of exposure to its content.

Please see the section "High voltage Manual service disconnect" in chapter 03. DISABLE DIRECT HAZARDS/SAFETY REGULATIONS.

Electric Shock/Electrocution

Seek immediate medical assistance if an electrical shock or electrocution has occurred (or is suspected).

Inhalation of Electrolyte Vapors

If inhalation of electrolyte vapors occurs, move person into fresh air. If not breathing give artificial respiration and seek immediate medical assistance.

Vent Gas Inhalation

The constituent battery cells are sealed and venting of cells should not occur during normal use. If inhalation of vent gases occurs, move person into fresh air. If not breathing give artificial respiration. Seek immediate medical assistance.

Treatment of waste water

According to normal procedure.

For handling in workshop, please see Vida.

Emergency rescue in case of fire

In case of fire not involving the traction battery

If there is a fire that has not spread or affects the traction battery, it can be extinguished using typical vehicle fire fighting procedures.

WARNING

Do not make contact with any high voltage components.

WARNING

While performing operations on the vehicle when a fire is involved, always consider the vehicle energized. Do not touch any part of the vehicle. Use appropriate personal protective equipment, including Self Contained Breathing Apparatus (SCBA).

In case of fire involving the traction battery

Use continuous fresh water to cool down the area around the battery.

If the traction battery catches fire or is venting or gives off odor, always use water to cool the battery. Use pure water to cool down the area around the battery. It may be prudent to have a sufficiently large water supply and/or the possibility to obtain/request additional water supplies when responding to a vehicle accident that involves fire.

NOTE

The fire fighting procedure will take time and will require a lot of water.

IMPORTANT

- Battery fires can take a long time to fully extinguish. This means that the battery might start burning again even after a fire seemingly have been extinguished.
- 

Never assume that the battery has cooled down or that it no longer poses a threat of a new fire emerging. Always take proper actions to make sure that the battery is cooled down completely, i.e. by use of heat camera or some other (equivalently suitable) tool to determine the status of the battery heat level.
- Smoke and/or steam, among other irregularities, may indicate that the battery is still heating somewhere.
- Turning, tipping or lifting the vehicle can cause a re-ignition of the traction battery. Always inform the next responder of the risk of the battery re-igniting, and what to do in such event.

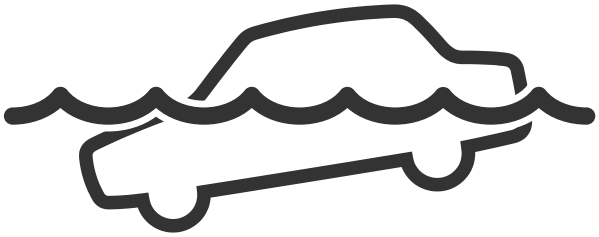
The traction battery needs to be monitored until it has been determined to be completely cooled, before leaving an accident and/or releasing the vehicle to second line responders, such as law enforcement and/or towing personnel.

WARNING

When the vehicle has been subject of a fire, submersion or collision that in any way have compromised the integrity of the traction battery, the vehicle should be stored in an area secured from any exposure.

Emergency rescue in the case of submersion

Treat a submerged vehicle wearing appropriate PPE. Remove the vehicle from the water and continue with normal high voltage disabling.



WARNING

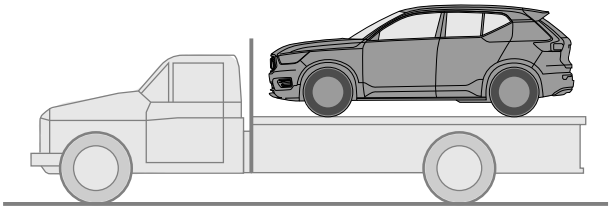
Always wear Personal Protective Equipment (PPE) while handling a submerged vehicle, otherwise it can result in serious injury or death from electrical shock.

WARNING

Do not touch the high voltage components, or harnesses when the vehicle is in the water.

Hauling of the vehicle from the scene after an accident

If the vehicle cannot start after an accident it needs to be hauled from the scene of the accident.



When hauling an electrical vehicle, it shall either be lifted off from the ground or towed up onto a recovery vehicle's platform.

When lifted, all four wheels must be lifted off from the ground.

It is only permitted to tow the vehicle up onto a recovery vehicle's platform. It is not permitted to haul the vehicle with any of its wheels rolling on the ground.

While hauling, no person is allowed to be inside the vehicle being hauled.

WARNING

After a reaction from a damaged traction battery, it must be secured until it has reached approximately ambient temperature. The use of a thermal imaging camera or an IR thermometer is recommended. Before transporting the vehicle (e.g. by a towing company), the condition of the lithium-ion battery must be re-checked.

IMPORTANT

- If it is impossible to utilize platform-type goods vehicle to perform vehicle hauling, rigid attachment means may be used to remove the vehicle to a temporary safe zone awaiting rescue.
- For the method of rigid hauling, long distance hauling shall be avoided and the hauling vehicle shall not exceed a speed of 5 km/h.
- The vehicle may not be hauled away from the scene if the vehicle in any way causes a security risk.

WARNING

A damaged traction battery can react either immediately or with a delay due to severe damage (e.g. crushed, broken or cracked housing) or exposure to water or fire. Therefore, watch out for any signs (e.g. smoke, heating, noise, sparks, etc.) while working on a vehicle with a lithium-ion battery which has been damaged in a very severe accident. If the lithium-ion battery reacts, protective measures must be taken.

WARNING

The vehicle may only be loaded and transported if the reaction has ended to such an extent that it can be assumed that no further reaction is to be expected on the transport route. The shortest and safest route must be chosen. Passages through tunnels should be avoided. In some cases it may be appropriate for the towing vehicle to be accompanied by a fire-fighting vehicle.

WARNING

The responsible persons of the towing company, the workshops and, if applicable, the disposal companies must be informed of the special features and risks of the vehicle!

Storage recommendations

A damaged traction battery can react either immediately or with a delay due to severe damage (e.g. crushed, broken or cracked housing) or exposure to water or fire. Therefore the vehicle involved in the accident must be parked in a suitable place outside unless it is analyzed and safe, because the traction battery still has the theoretical potential to react until the system is secured, please see chapter 03. DISABLE DIRECT HAZARDS / SAFETY REGULATION.

The parking space must be marked accordingly (signage/delimitation). A distance of at least 5 meters (15 feet) from other vehicles, buildings or combustible objects must be maintained.

WARNING

If a vehicle has been damaged (battery enclosure has been dented or compromised), it is possible that heating is occurring that may eventually lead to a fire.

Damaged or opened cells/batteries can result in rapid heating (due to exothermic reaction of constituent materials), the release of flammable vapours, and propagation of self-heating and thermal runaway reactions to neighbouring cells.

Smoke may be an indication that a thermal reaction is in progress. If no smoke, flame, sign of coolant leakage, or signs of heat has been observed the vehicle may be disconnected and moved to a safe location. To obtain specific instructions for evaluating, disconnecting, and preparing a damaged vehicle for transport, please contact the Volvo team. A damaged vehicle should be monitored during storage for evidence of smoke, flame, sign of coolant leakage, or signs of heat.

If full-time monitoring of the vehicle is not possible (for example during extended storage), the vehicle should be moved to a safe storage location. A safe storage location for a damaged battery will be free of flammable materials, accessible only by trained professionals, and 5 meters (15 feet) away from occupied structures. For example, a fenced, open yard may be an appropriate safe location. It is possible that a damaged battery may sustain further damage during transportation and may lead to a fire. To further reduce this risk, handle the damaged battery with extreme caution until analyzed.

09. IMPORTANT ADDITIONAL INFORMATION

10. EXPLANATION OF PICTOGRAMS USED

Figure	Meaning
	Electric vehicle
	Warning/Caution
	High voltage component
	SRS Control unit
	Power shut down
	Smart key distance
	Lifting point
	Disconnection of high voltage
	Fuse box disabling high voltage
	Opening hood
	Seat adjustment, longitudinal
	Seat height adjustment
	Steering wheel tilt
	Airbag
	Battery, low voltage

Figure	Meaning
	Traction battery pack, high voltage
	Airbag inflator
	Gas strut/Preloaded spring
	Ultra capacitor, low voltage
	High voltage power cable
	Seat belt pretensioner
	High strength zone
	Dangerous voltage
	Flammable
	Hazardous to human health
	Environmental hazard
	Use water to extinguish
	Use wet foam to extinguish
	Use dry foam to extinguish
	Use IR Camera

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