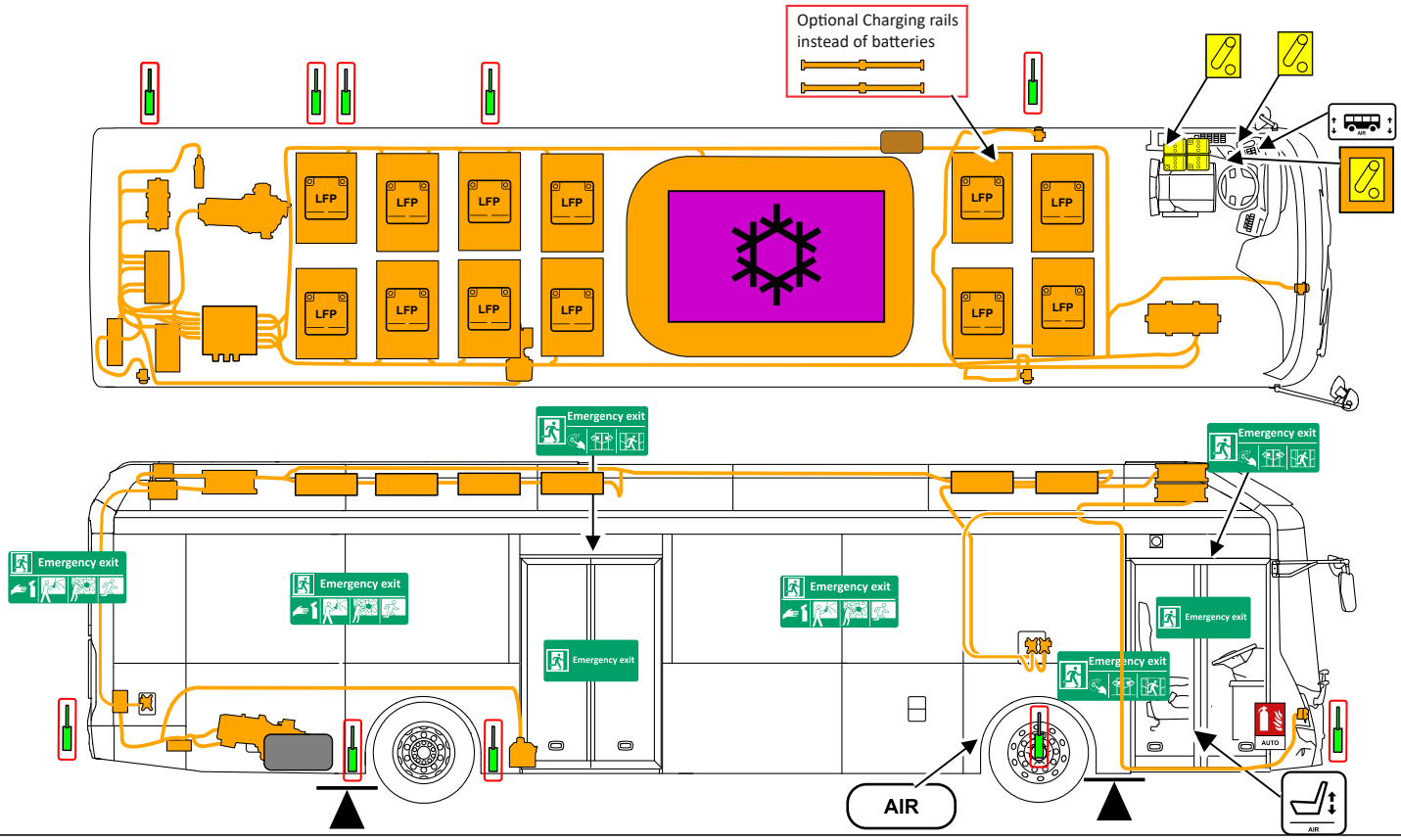
Volvo Buses, 7900 Electric

Body type: Low floor 12 m, 2-doors

Production start:2026







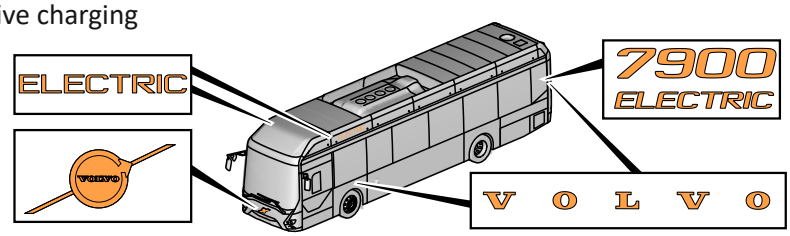
Note! The battery layout in the illustration is only for representation purposes and may vary in different vehicles.

Electric propulsion	Traction voltage battery (600V), Lithium Ferro Phosphate	Traction voltage component	Traction voltage power cable	Device to shut down power in vehicle	Triggered gas strut, triggered preloaded spring	Low voltage battery
Break to obtain access	Emergency door opener	Emergency exit	Height control	Seat adjustment	Lifting point	Tank content: oil
Fuel tank content: diesel or biodiesel	Auto fire suppression	Air conditioning component	Air conditioning line	Air tank	Disconnect traction battery	

Identification number	Version number	Page number
004120210	2/2026	1

1. Identification / recognition

Electric bus with conductive charging



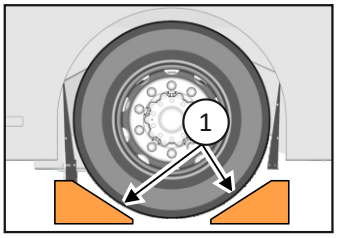
2. Immobilisation / stabilisation / lifting

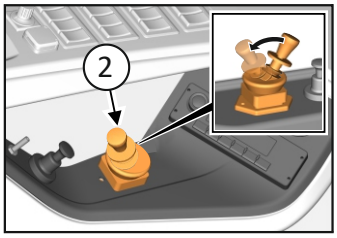
Warning: Stabilize the vehicle only at designated lifting/stabilization points. Do not stabilize beneath traction batteries, high-voltage components, air tanks, suspension components, or air-conditioning equipent.

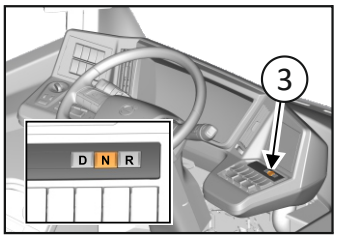
Always approach the electric bus from the sides to stay out of the potential travel path. Due to lack of noise it can be difficult to determine if the bus is running.

I. Immobilise the vehicle

1. Chock the wheels.
2. Apply the parking brake.
3. Select the N (neutral) position.







II. Lifting points

Use only these lifting points (see page 1).

3. Disable direct hazards / safety regulations

Always assume that the bus is powered, even if it is silent!

In case of 600 V battery failure, risk of voltage on the traction cables exists. The orange traction voltage cables on the roof are always live.

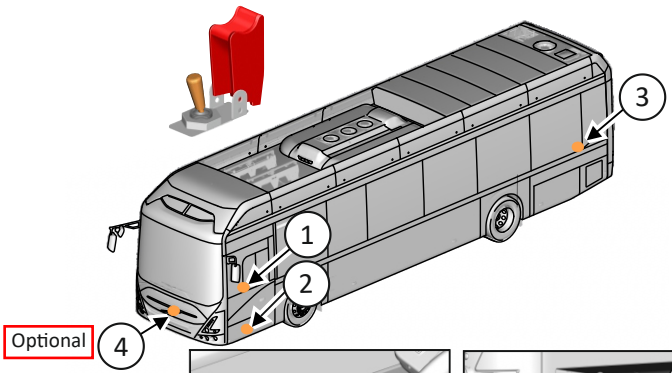
Note! Do not touch or cut orange traction voltage power cables. Do not touch or open traction voltage components.

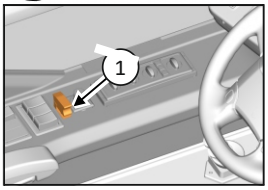
600 V components - except the high voltage batteries - need 5 seconds to discharge their capacitance.

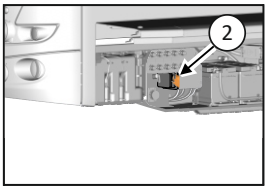
Note! The cables connecting the ESS batteries to each other and ESS batteries to the contactor box are always live.

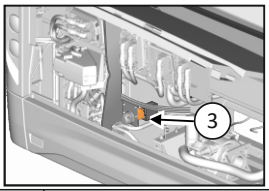
Location of the emergency switches:

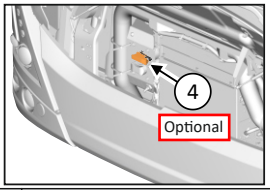
1. Driver compartment.
2. Behind the side hatch, on the left side of the bus.
3. Behind the rear hatch.
4. Behind the front hatch (optional).





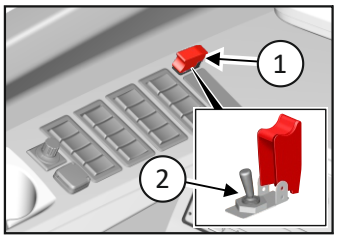






I. Partially disabling traction voltage

Note! Make sure that the bus is not charging.
Note! The 600V battery cables are live even if the switch is in "0" position or the 24V batteries are disconnected.



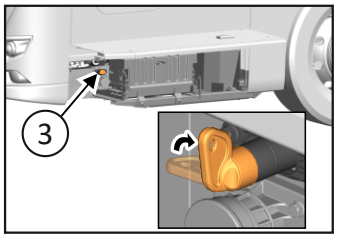
I.I Emergency method

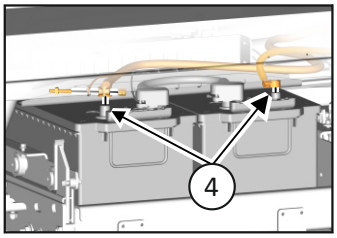
Emergency switch

1. Lift the flap.

2. Press the emergency switch.

Note! Do not close the flap after pressing the switch. Closing the flap causes the switch to reset and reconnects to 600 V system.





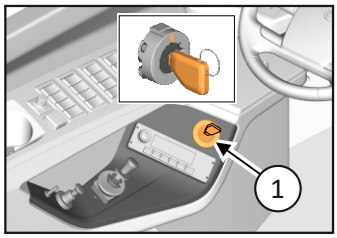
3. Turn the switch to position "0".

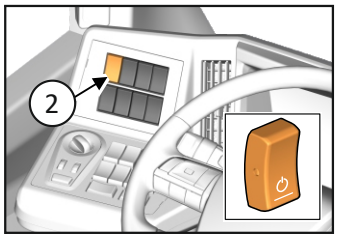
4. Remove the 24V battery cables:
4.1. Remove the minus "-" terminal.
4.2. Remove the plus "+" terminal.

I.II Alternative method

1. Turn off the ignition.

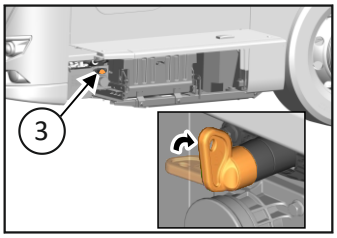
2. Turn off the power.
Note! Wait at least 30 seconds.

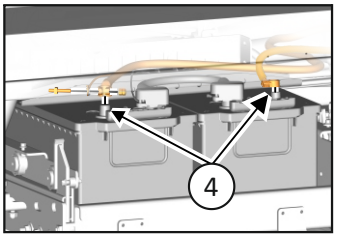




3. Turn the switch to position "0".

4. Remove the 24V battery cables:
4.1. Remove the minus "-" terminal.
4.2. Remove the plus "+" terminal.

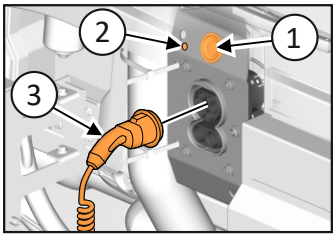




II. Disconnecting the bus from external chargers

II.I If the bus is charged via a charging plug

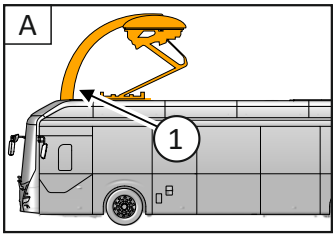
1. Push the button.
2. Wait until the LED goes out.
3. Remove the charging plug.



II.II If the bus is charged via a charging rails

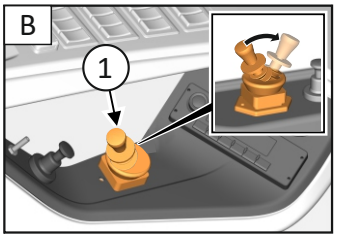
Emergency method (A)

1. Push the emergency stop button on the pantograph charging pole.
Note! Make sure the pantograph has risen and there is no connection to the charging rails.



Alternative method (B)

1. Release the parking brake.
Note! Make sure the pantograph has risen and there is no connection to the charging rails.



4. Access to the occupants



Break these windows to obtain access (tempered glass).

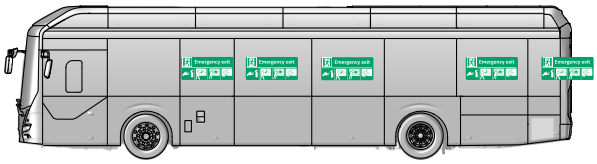


Two emergency door opening buttons inside and outside the vehicle.



Two exits through doors.





5. Stored energy / liquids / gases / solids

I. 600 V traction voltage lithium Ferro Phosphate battery



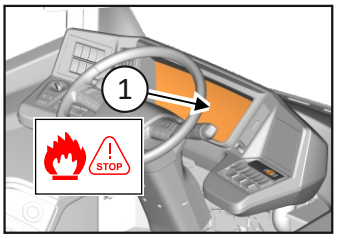
II. Other liquids/gases

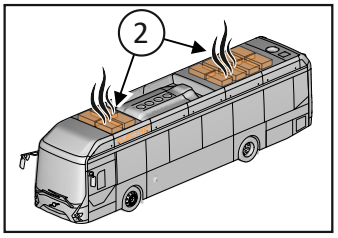


6. In case of fire



I. Lithium ferro phosphate battery related fire





<u>Symptoms of the battery fire:</u>

1. Fire alarm on a dashboard.
2. Smoke or streaks of intense fire rising from under the traction voltage battery cover.

Use large amounts of water to put out the lithium ferro phosphate battery related fire.

*Note! Pay attention to the overpressure valves (bursting membrane) **(A)**.*

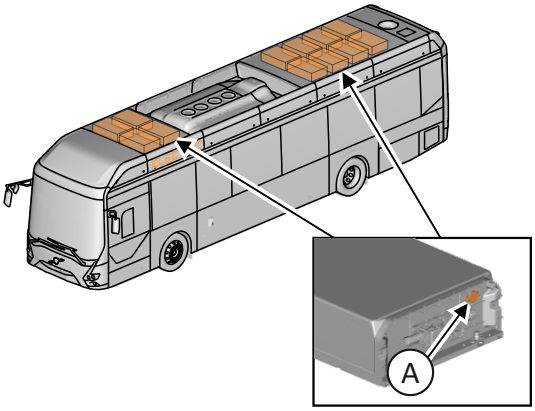
Note! If electrolyte comes into contact with water, hydrofluoric acid and hydrogen gas may be formed.



Do not use a class ABC fire extinguisher for the battery related fire! ABC Dry chemical is ineffective.

When fighting the fire with water, any electrical hazards have to be considered and rules have to be respected.

Hydrogen fluoride, carbon monoxide, carbon dioxide can be released. Wear Self-Contained Breathing Apparatus (SCBA) and cover your skin.



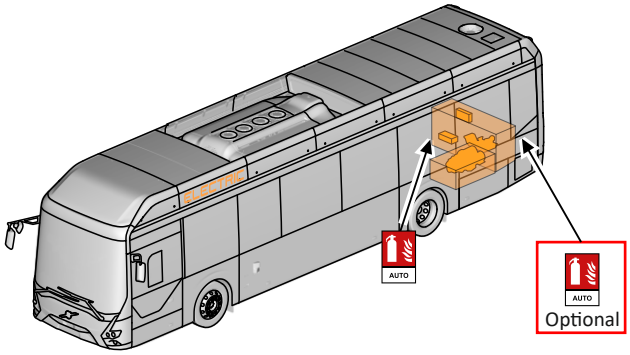


Risk of battery re-ignition (see chapter 8).

II. Fire related to other materials

Can only occur in the following compartments:
- auxiliary heater
- electric machine (optional)

If other materials are involved, a class ABC fire extinguisher can be used.



7. In case of submersion

If possible:
1. Remove the vehicle from the water.
2. Disable direct hazards (see chapter 3).

Note! Risk of traction voltage battery fire after submerged in salt water.

Risk of serious injury or death from electric shock. Wear appropriate Personal Protective Equipment (PPE).

If electrolyte comes into contact with water, hydrofluoric acid and hydrogen gas may be formed.

8. Towing / transportation / storage

I. Storage post fire/crash

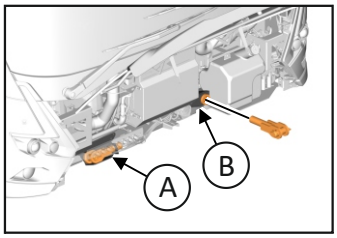
Store the bus at a safe distance from other vehicles, buildings and combustible objects.

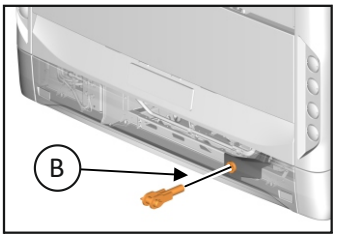
Risk of battery fire re-ignition after incident.
Observe the batteries for at least 48 hours. Toxic and flammable gases can be released.

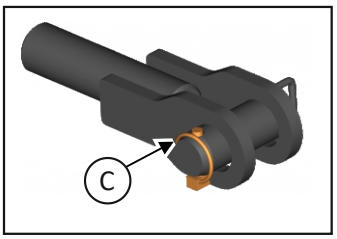
In case of open cells, there is a risk for release of hydrofluoric acid and carbon monoxide.
If severe damage causes exposing of traction voltage components, use PPE including SCBA.

II. Towing

Towing device (A) is located on the front of the bus.
Towing eyes (B) are located on the front and the rear of the bus.
*Note! Secure the pin before towing **(C)**.*







Allowed methods:
1. Towing.
   Note! Use only front towing eye for towing the bus with all wheels on the ground.
2. Lifting and towing.
3. Transporting.

Note! Remove the propeller shaft from the drive axle before towing.

9. Important additional information

Do not touch or cut orange traction voltage power cables.

Do not touch or open traction voltage components.

Do not damage the battery pack, even if the propulsion system is deactivated.

Do not step or press on damaged batteries.

Always use PPE when working on electric vehicles.