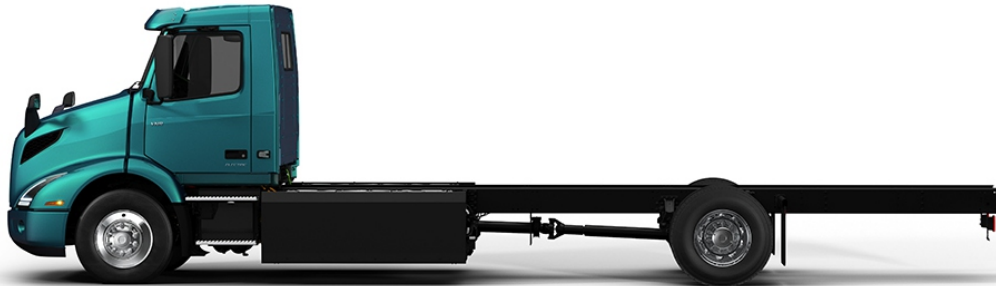




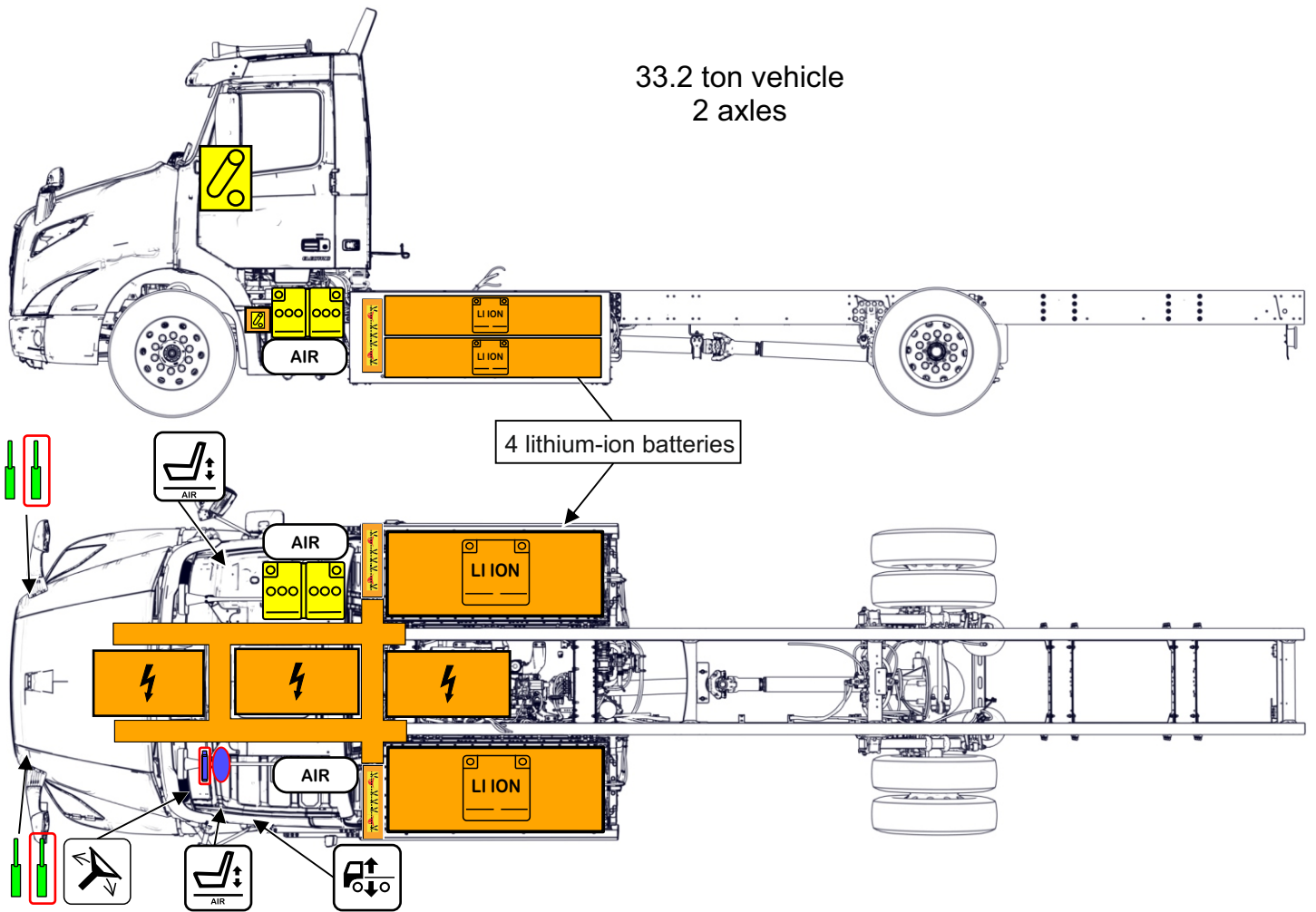
VOLVO TRUCKS

VNR ELECTRIC

PRODUCTION START : 2021



33.2 ton vehicle
2 axles



High voltage lithium-ion battery	Low voltage device that disconnects the high voltage	Low voltage battery	Air tank	Seat adjustment	Height control	Cable to cut that disconnect high voltage components
Steering wheel tilt control	High voltage component	High voltage cable	Gas strut, pre-loaded spring	Ignition key	Airbag inflator	Airbag

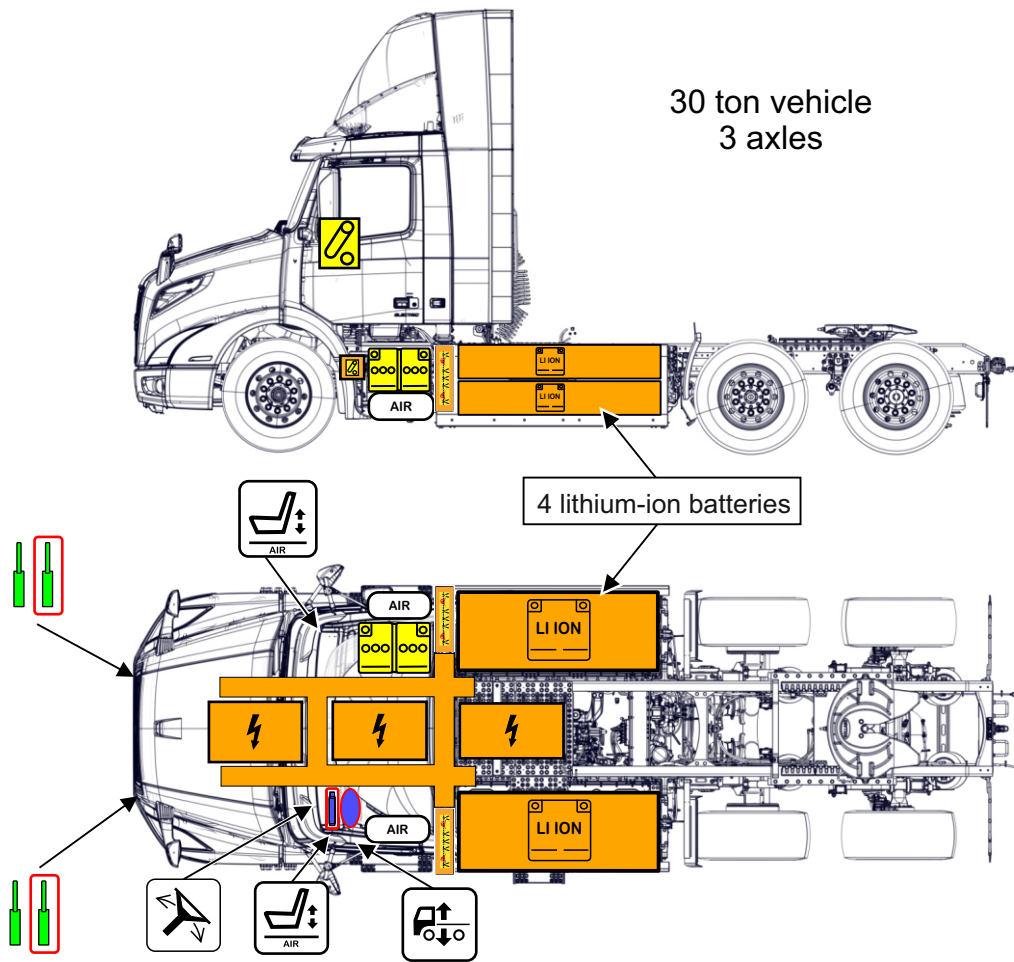
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VOLVO TRUCKS

VNR ELECTRIC

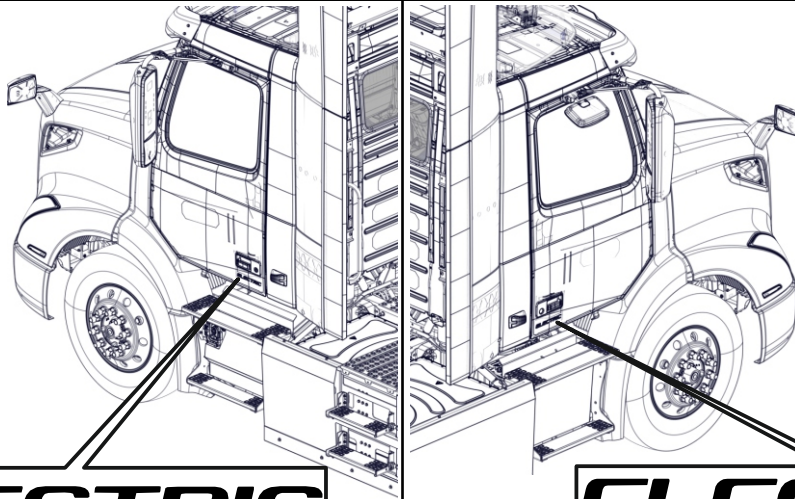
PRODUCTION START : 2021



High voltage lithium-ion battery	Low voltage device that disconnects the high voltage	Low voltage battery	Air tank	Seat adjustment	Height control	Cable to cut that disconnect high voltage components
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Identification number	Version number	Page number
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1. Identification/recognition



ELECTRIC

ELECTRIC

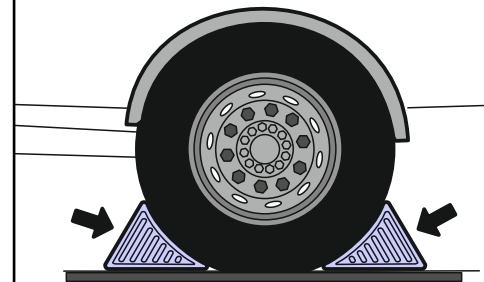
2. Immobilisation/stabilization/lifting



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

1 Chock the wheels.

2 Apply the parking brake.



3. Disable direct hazardous/safety regulations

➔ Primary procedure

1 Check the instrument cluster for any of the symbols (1) and (2) appearing with a beep sound. If yes, a thermal runaway is detected in the lithium-ion batteries.



2 Turn off the ignition and remove the key.



3 Turn off the chassis switch (up) to initiate the high voltage disconnection process.

Note

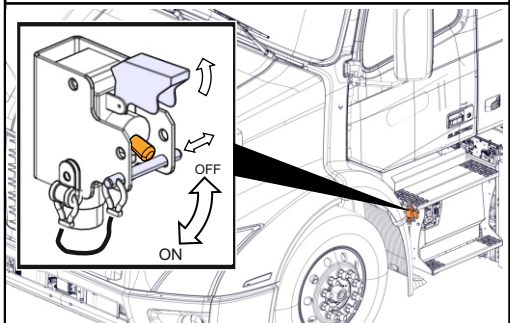
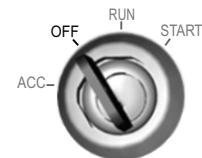
All the components are designed to discharge their own capacitance within five seconds.



1



2



Identification number

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Page number

3

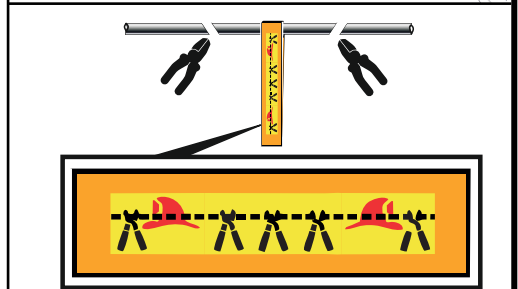
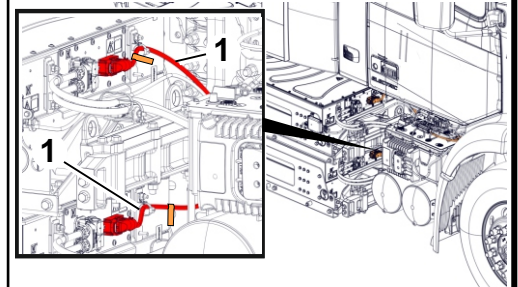
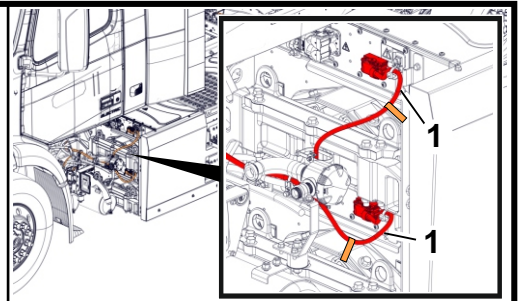
➔ **If unable to perform the primary procedure**

- 1 Locate the communication cable harness (low voltage) (1) connected to any of the traction batteries.

- 2 Cut the communication cable harness on each side of the label and disconnect the traction voltage supply from the traction batteries.

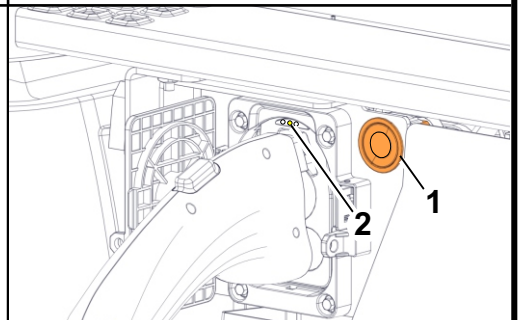
Note

Cutting any of the locations shown will disable the traction voltage supply.



➔ **If the truck is charging**

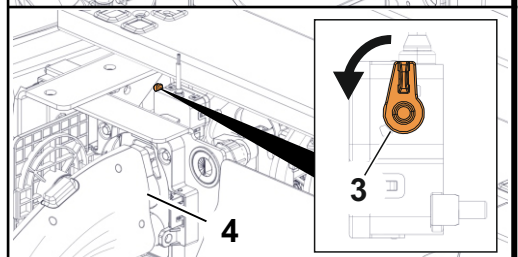
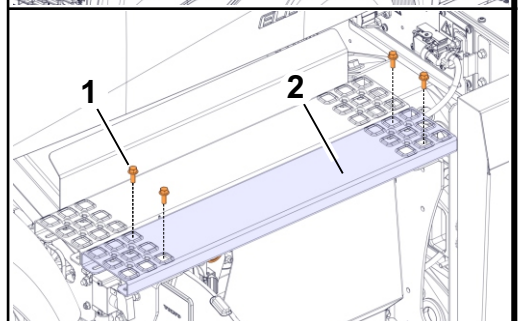
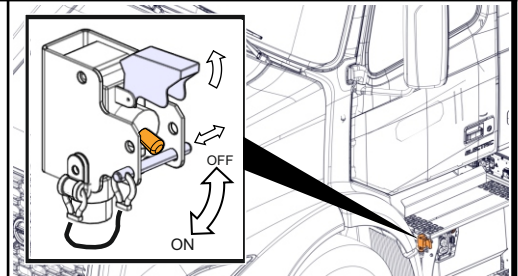
- 1 Unlock the cab.
- 2 Press the stop button (1) and wait for the steady yellow light (2) on the charging inlet.
- 3 Remove the charging plug from the charging inlet when the yellow light (2) turns off.



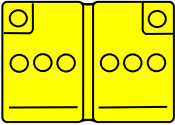



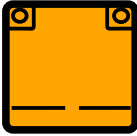






➔ **If the charging plug cannot be pulled out : retract the pin manually**



- 1 Turn off the chassis switch (up) to initiate the high voltage disconnection process.
- 2 Remove the screws (1) and the step (2).
- 3 Rotate the lever (3) and remove the charging plug (4).



4. Stored energy/liquid/gases/solid

	  	12 V
	     	600 V

5. In case of fire



Use a large sustained volume of water to extinguish lithium-ion battery related fire.



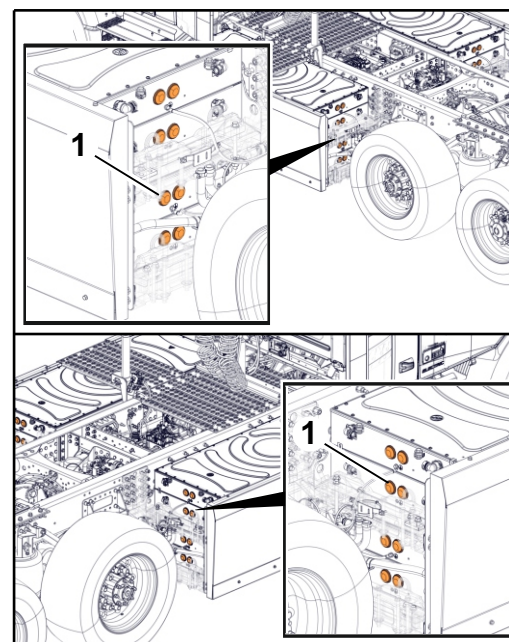
If other materials are involved, use class ABC fire extinguisher.



In case of thermal runaway, the lithium-ion batteries can release hydrogen fluoride.



In case of traction battery fire large flames can emit from the breather valves (1) as a result of thermal runaway.



6. In case of water submersion



The damage level of a submerged vehicle may not be visible.

Submersion in water can damage 12 V, 24 V and 600 V components.

Handling a submerged truck without appropriate Personal Protective Equipment (PPE) will result in serious injury or death due to electric shock.

Avoid any contact with the traction voltage cables and electric components.

If possible disable direct hazards (See chapter 3).

7. Towing/transportation/storage



If the traction batteries are damaged, there is a risk of thermal or chemical reaction.



Park the fully electric truck involved in an accident in a suitable place maintaining a safe distance from other vehicles, buildings and combustible objects.

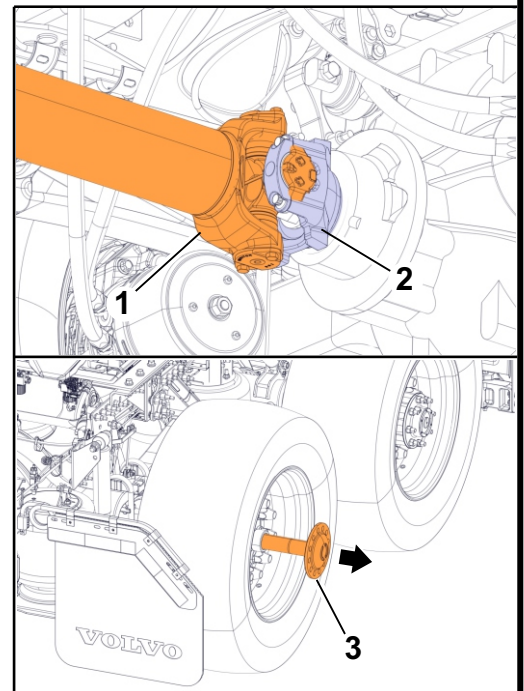
Risk of delayed fire can happen, after the fire suppression or if the lithium-ion batteries are damaged

Observe the truck for a minimum period of 48 hours using a thermal infrared camera.



The electric motors can produce electricity When moving the truck with the rear drive tires contacting the ground. This remains a potential source of electric shock even when the high voltage system is disabled.

Before towing the truck, it is mandatory to disconnect the drive to the wheels. The drive to the wheels is disabled by either uncoupling the propeller shaft (1) from the driven axle (2) or by removing the axle shafts (3).



8. Important additional information



Do not cut any orange cables.

Do not touch any high voltage cables and electric components.

Do not perform any operation on a damaged truck without appropriate Personal Protective Equipment (PPE).