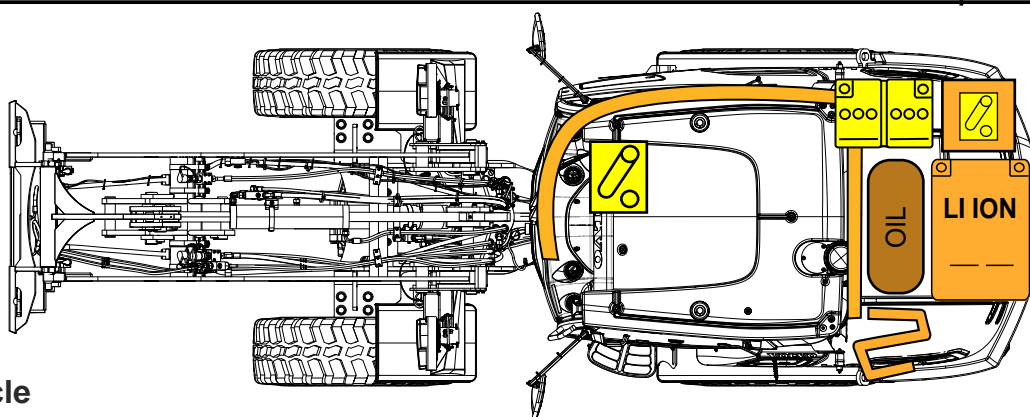
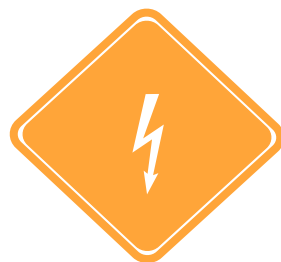




VOLVO Wheel loader

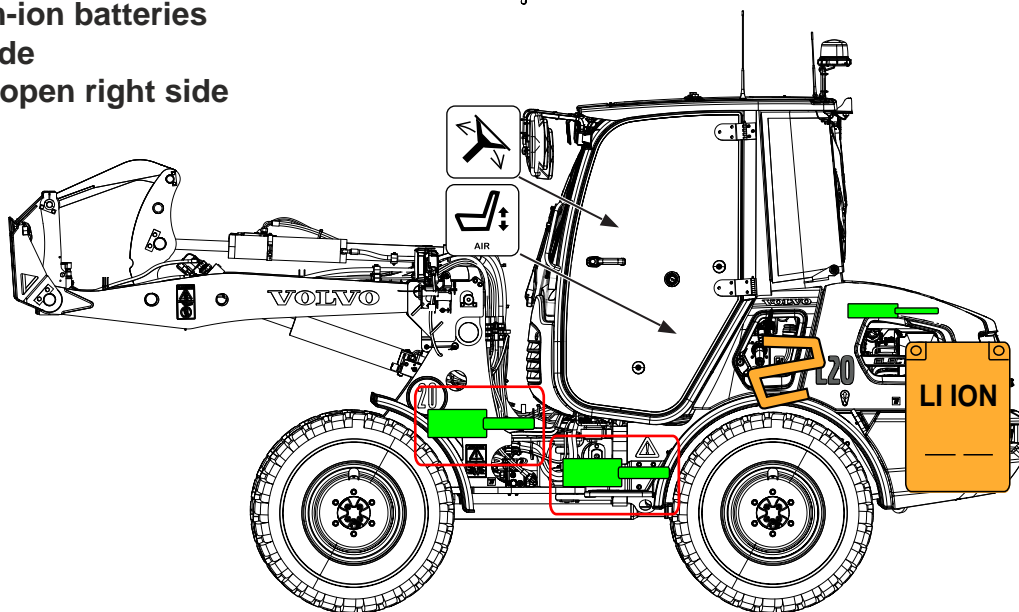
L20 ELECTRIC

PRODUCTION START: 2022



5 or 6
lithium-
ion
batteries
rear

≤6 ton vehicle
5 or 6 lithium-ion batteries
1 door left side
1 window to open right side
1 seat



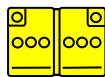
5 or 6
lithium-
ion
batteries
rear



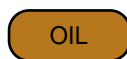
High voltage lithium-ion
battery



Low voltage device
that disconnects the
high voltage



Low voltage battery



Oil tank



Seat adjustment



Other control



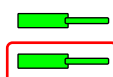
Steering wheel tilt
control



High voltage
component



High voltage
cable



Gas strut,
pre-loaded gas cylinder



Ignition key

Identification number

54618565

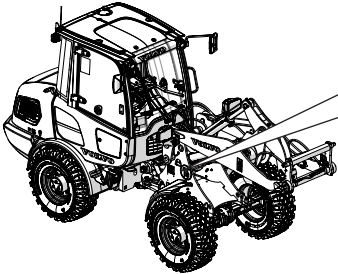
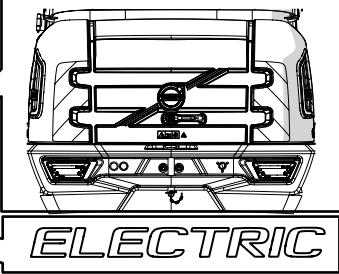
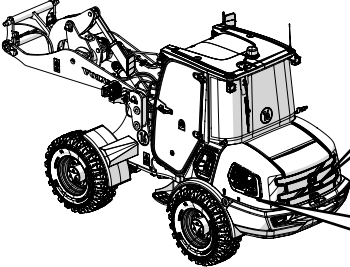
Version number

08/2024

Page number

1

1. Identification/recognition



Volvo Construction Equipment

Volvo Construction Equipment Germany GmbH

Merz-Platz-Strasse 1, D-64329 Ketz, Germany

Type/Model

WHEELLOADER/JL20H

Product Name

L20 electric

Product Identification Number

×VCEJL20Hxxxxxxxxxx ×

Machine mass kg

Engine power kW

Manufacturing year

Made in

Assembled in

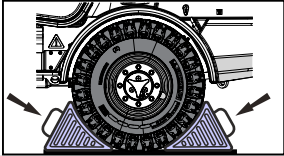
VOLVO

10220165

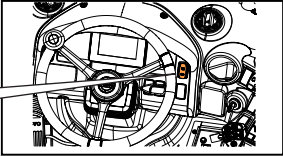
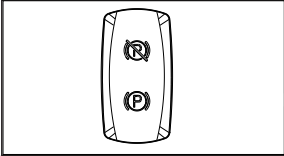
2. Immobilisation/stabilization/lifting

Always approach the vehicle from the sides to stay out of the potential travel path. It may be difficult to determine, if the vehicle is running due to lack of noise.


1 Chock the wheels



2 Apply the parking brake



3. Disable direct hazardous/safety regulations




1

Turn off the ignition and remove the key.

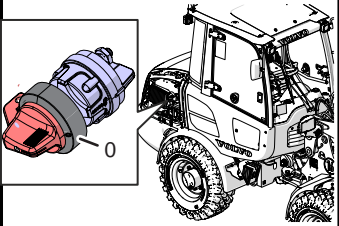
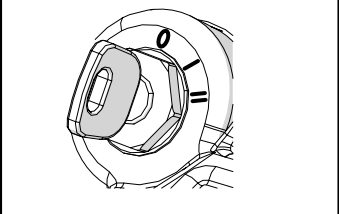
2


Open the engine hood.



3

On the right hand side turn the battery disconnect switch to the off position 0.



 If the machine is charging and connected with a **standard charging connector**

1

Disconnect the connector from the charging source, if possible.

2


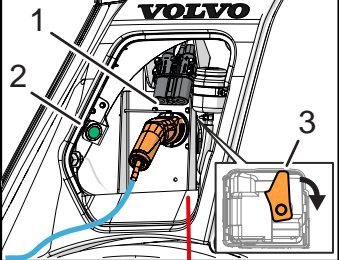
Open the charging flap behind the cab door (see red arrow).


3

Press the button (2) (charging initiating button) to interrupt the charging procedure or rotate the lever (3) to release the locking pin manually.

4

Disconnect the connector (1) from the machine.



 If the machine is charging and connected with a **fast charging connector**

1

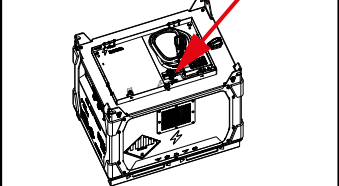
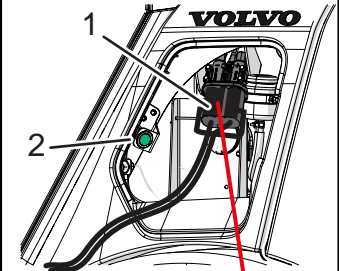
Open the charging flap behind the cab door (see red arrow).

2

Press the button (2) (charging initiating button) to interrupt the charging procedure.

3

Disconnect the connector (1) from the machine.



4. Stored energy / liquid / gases / solid

48 V high voltage lithium-ion battery



50 L

OIL

5. In case of fire



Use large sustained volume of water for lithium-ion battery related fire.



Class ABC fire extinguisher can be used if other materials are involved.



In case of thermal runaway, hydrogen fluoride can be released by the lithium-ion batteries.

6. In case of water submersion



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

Submersion in water can damage 12 V and 48 V components.

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

Avoid any contact with 48 V cables and electric components.

If possible disable direct hazards (See chapter 3).

7. Towing / transportation / storage



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

The electric vehicle met with an accident must be parked in a suitable place by maintaining a safe distance from other vehicles, buildings and combustible objects.



Risk of late fire can happen, after the fire suppression or in case the lithium-ion batteries are damaged.

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

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 vehicle without appropriate Personal Protective Equipment (PPE).