

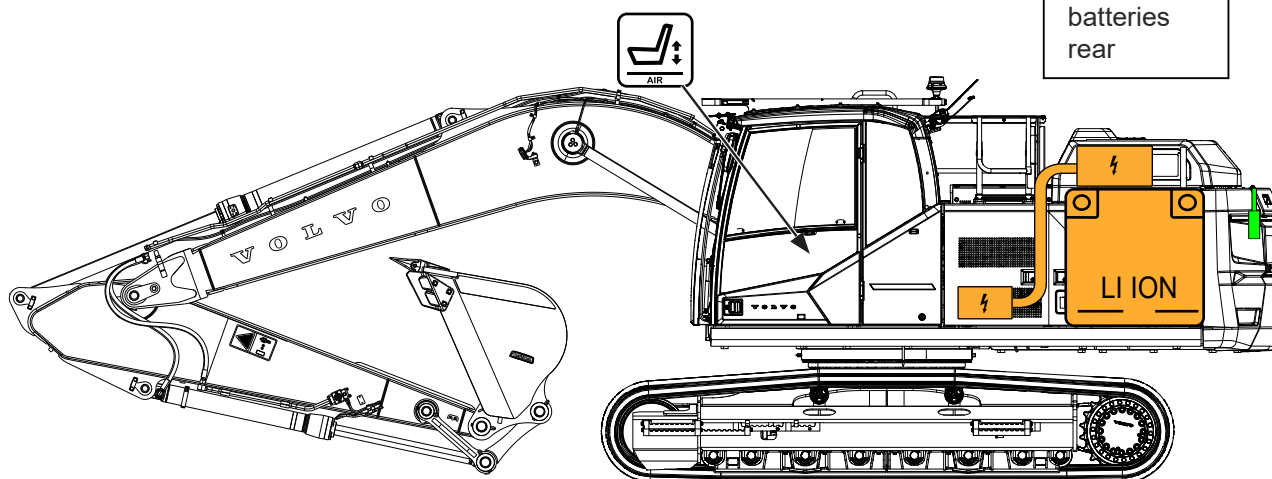
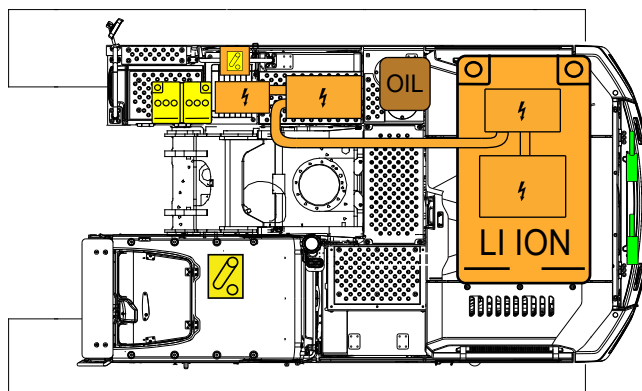


# VOLVO Crawler excavator

## EC230F ELECTRIC



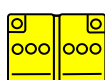
**> 20 ton vehicle**  
**12 lithium-ion batteries**  
**1 door left side**  
**1 window to open left side**  
**1 windshield to open front side**  
**1 seat**



Traction voltage  
lithium-ion battery



Low voltage device  
that disconnects the  
traction voltage



Low voltage battery



Oil tank



Seat adjustment



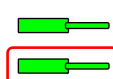
Traction voltage  
component



Traction voltage  
cable



Start/Stop button



Gas strut,  
pre-loaded gas cylinder

Identification number

55622193

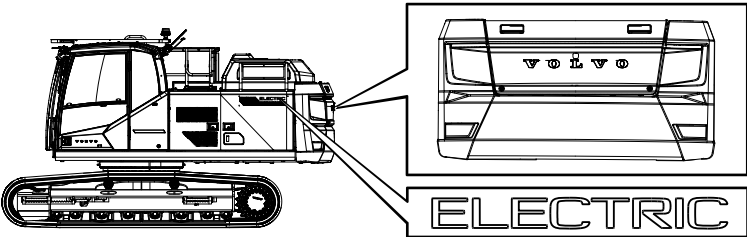
Version number

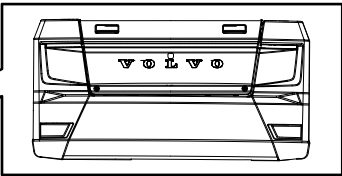
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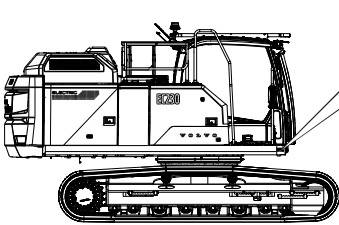
1

1. Identification/recognition





ELECTRIC



Volvo Construction Equipment  
Volvo Construction Equipment China Co., Ltd.  
20445, Jin Jing Road, Pu Dong, Shanghai, China 201206

Type / Model EXCAVATOR / JEC230FLS

Product Name EC230 ELECTRIC

Product Identification Number =VCEJEC230Fxxxxxxx=

Machine mass kg

Nominal power kW

Manufacturing year

Made in Assembled in

VOLVO

2. Immobilisation/stabilization/lifting

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

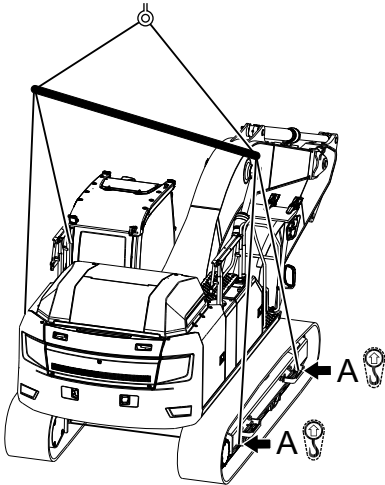
Place the attachment on the ground.

- Even when the electric motor is turned off, it is possible to lower the attachment of the machine to the ground by operating control levers in the cab.

Track motor and swing motor include hydraulically released parking brake assembly.

The parking brake is engaged automatically at stop condition.

When lifting the machine, always conduct the operation at the marked lifting points (A) on the equipment.



3. Disable direct hazardous/safety regulations

- 

1 Press the Start/Stop button to turn off the machine.

2 Open the front right side door of the machine.

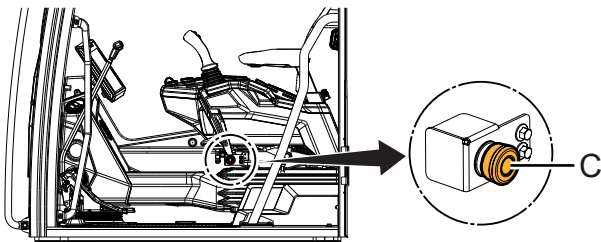
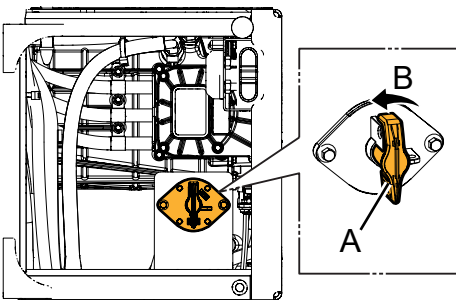
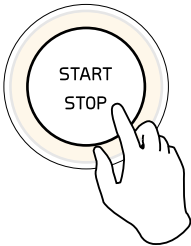


3 Turn the battery disconnect switch (A) to the off position (B).

4 In case it cannot be reached to the battery disconnect switch (A), press the emergency stop switch (C), which is located under the operator seat in the cab to stop the machine.

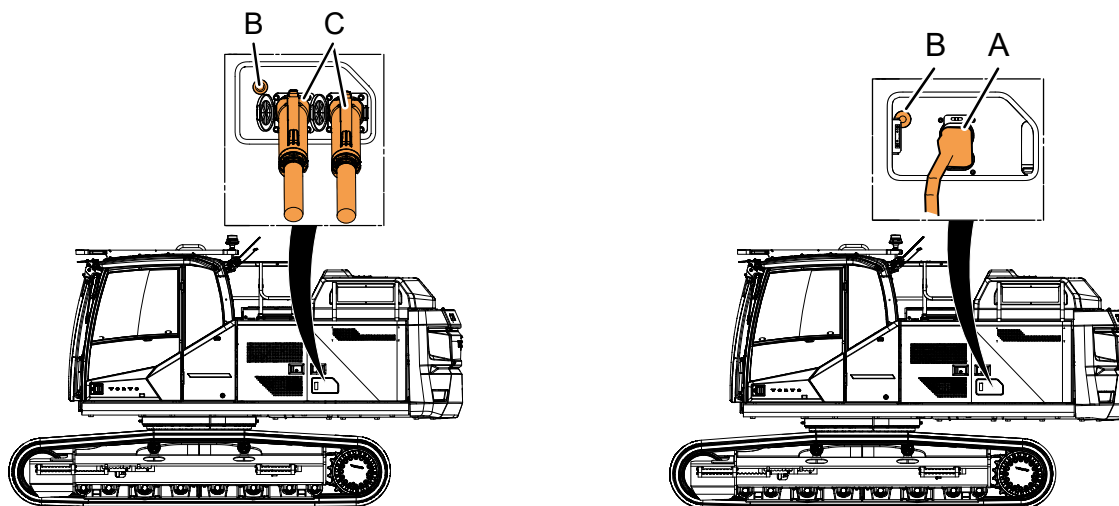
NOTE!

This switch turns off the machine and the battery disconnect switch simultaneously.



➡ If the machine is charging and connected with **single charging connector (A)** or **dual charging connectors (C)** :

- 1 Disconnect the connector (A or C) from the charging source, if possible.
- 2 Press the charging stop button (B) next to the charging port to interrupt the charging procedure.
- 3 Disconnect the connector (A or C) from the machine.



#### 4. Stored energy / liquid / gases / solid

600 V traction voltage lithium-ion battery



120 L

OIL

#### 5. In case of fire



Use large sustained volume of water for lithium-ion battery related fire.  
Efforts should be made to control and collect run off water.



Do not use water for hydraulic fluid 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 24 V and 600 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 600 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 traction voltage cables and electric components.

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