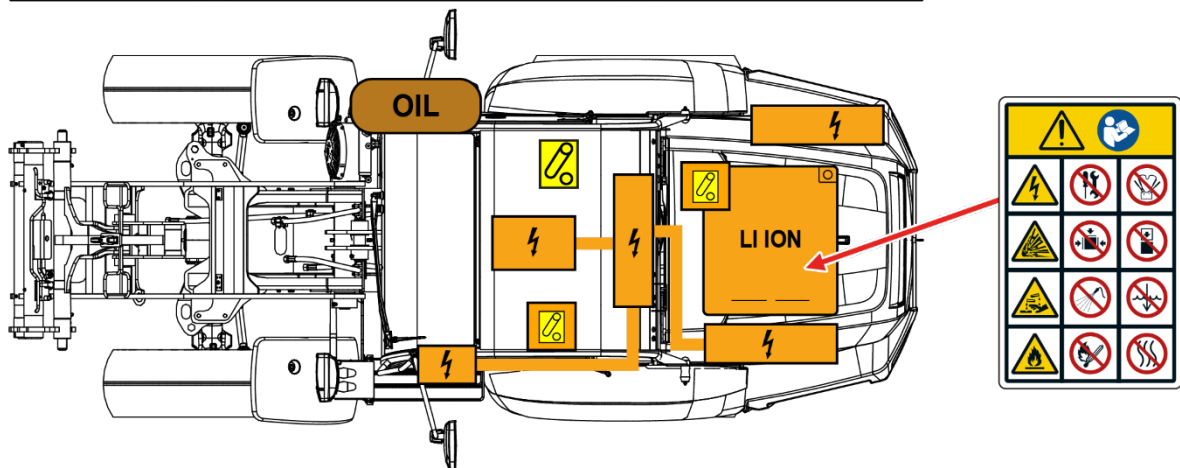
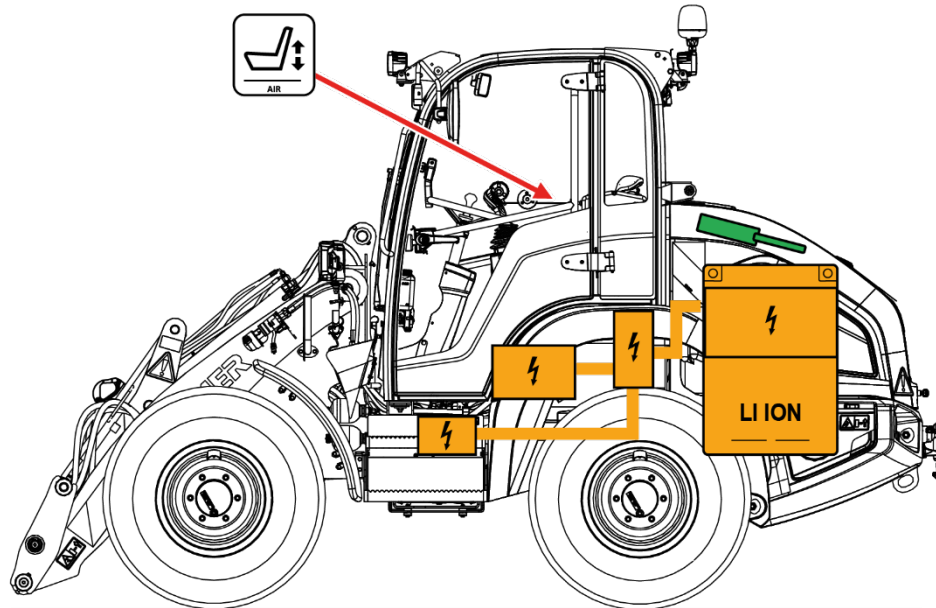




## Kramer Wheel Loader

5065e, KL25.5E  
TYPE 357-14, 357-15



High voltage  
lithium-ion battery



Low voltage device  
that disconnects the  
high voltage



High voltage power cable



Oil tank



Seat adjustment



High voltage  
component

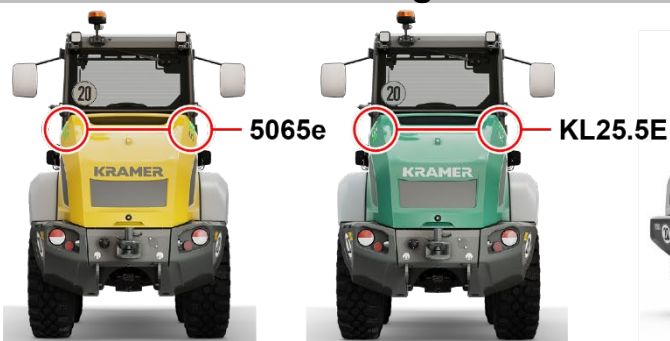


Gas strut,  
Preloaded spring



Ignition key

## 1. Identification / recognition



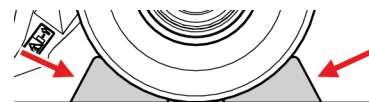
## 2. Immobilisation / stabilization / lifting



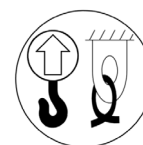
Always approach the vehicle from the sides to stay out of the potential travel path. It may be difficult to determine, if the vehicle is running due to lack of noise.

1. Apply the parking brake.

2. Chock the wheels.



Decal shows attachment points for tie-down and lifting.



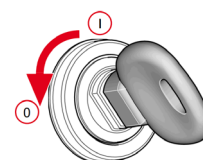
## 3. Disable direct hazardous / safety regulations



Do not touch, cut or open damaged high-voltage components, cables or high-voltage battery! Wear appropriate protective equipment!



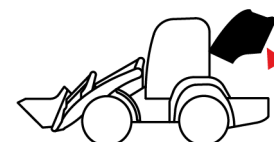
1. Turn off the ignition and remove the key.



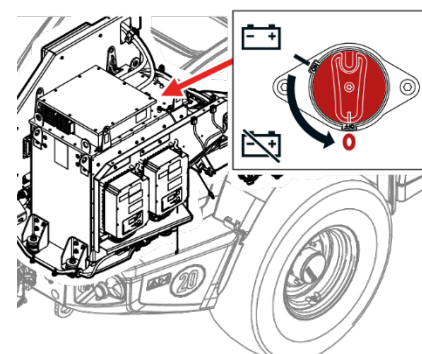
2. Press the emergency stop in cabin.



3. Open the engine hood with the key.

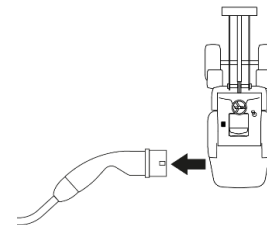
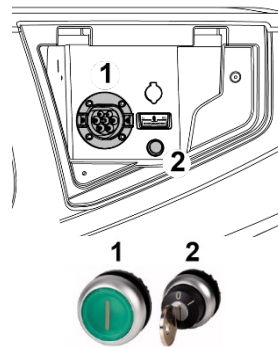


4. On the right hand side, turn the battery isolator switch to the off position.



If the vehicle is **charging** and connected with a **charging connector**

1. Disconnect the connector from the charging, if possible.
  1. Vehicle socket for connector.
  2. Charging button or key switch.
2. Press the button **1** or turn off the key switch **2** to interrupt the charging procedure.
3. Disconnect the connector from vehicle.



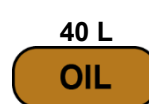
## 4. Access to the occupants



1. Left side of cabin, one exit door.
2. Right side on cabin, one side window. Can only to be opened from the inside or break glass with emergency hammer.

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

96 V high voltage lithium-ion battery



## 6. In case of fire



Use large sustained volume of water for lithium-ion battery related fire.  
Do not touch high-voltage components. Safety distances when extinguishing:  
- 1 m for spray jet  
- 5 m for direct jet



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.



Check battery temperature.

## 7. In case of submersion



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

Submersion in water can damage 12 V, 48 V and 96 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 96 V cables and electric components.

If possible disable direct hazards.

## 8. Towing / transportation / storage



If the traction batterie is 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.

Check battery temperature.

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

## 9. Important additional information



Do not cut or damage any orange high voltage cables or electric components.

Do not touch any orange high voltage cables and electric components.

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

## 10. Explanation of the used pictograms



Corrosives



Flammable



Environmental hazard



Hazardous to the human health



Acute toxicity



Use water to extinguish the fire



Warning,  
High voltage



Attention, danger



Use thermal  
Infrared camera



Electric vehicle



Respiratory  
protective device



Use ABC powder  
to extinguish the  
fire



Safety label: Electrical voltage; read  
operator's manual

**CAUTION! Risk of injury due to  
electrical voltage**