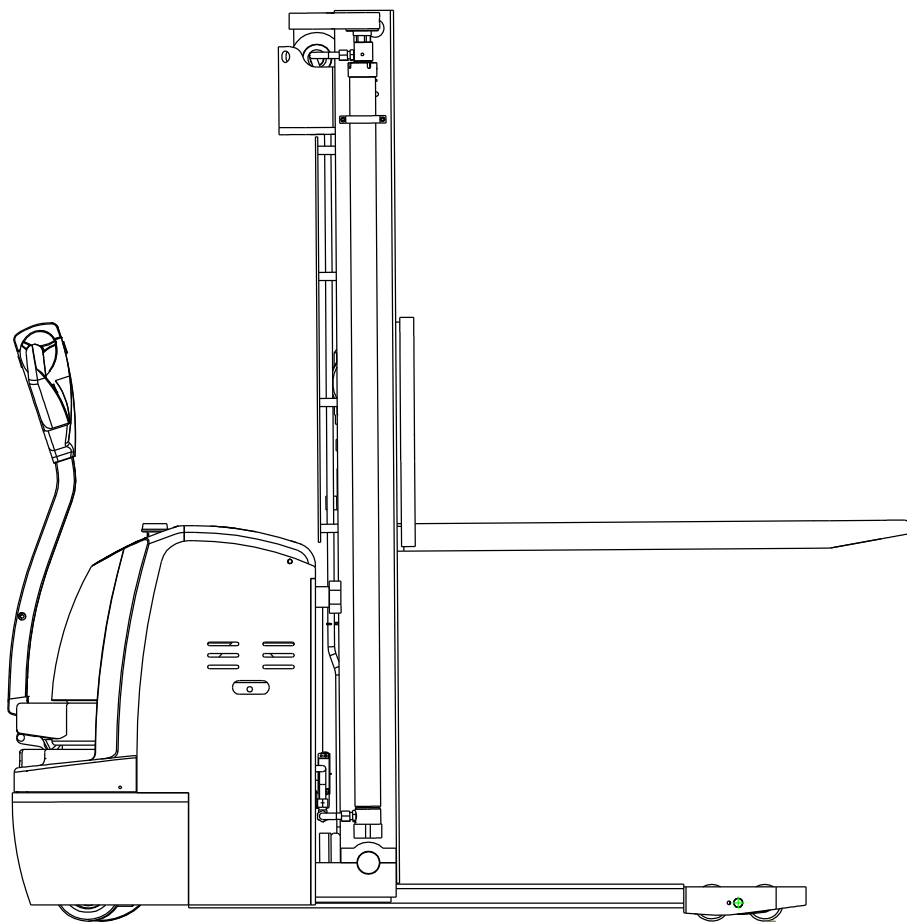


# 15ES

- Operation Manual
- Service Manual



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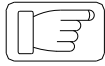
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### Notice

If the driver's view is shielded by the bulky goods carried, please drive backwards or drive under the guidance of other working personnel.



### Notice

Ensure no people around the truck when driving backwards.



### Notice

Driving through the narrow access shall be guided by working personnel.



### Notice

At crossroad or other places impeditive for view, the driver shall not drive until there is no person at both sides.



### Notice

Keep concentration when operating truck.



### Caution

The driving mechanism of truck is installed on the foreside. Due to this difference from common vehicles, the foreside of truck swings comparatively fast when turning around. For this reason, to prevent collision with other objects nearby the foreside of truck, do drive or turn slowly.

- (2) Strictly forbid harsh driving



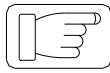
### Notice

Never start up, brake or turn abruptly.

Abrupt start-up or braking may cause the falling of goods.

## 9. Periodic maintenance and repair:

Comprehensive check for truck can avoid malfunction and ensure the service life. The hours listed in maintenance procedures is based on the cases that the truck works for 8 hours per day and 200 hours per month. For the sake of safety, maintenance shall be carried out according to maintenance procedure.

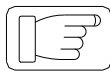


### Notice

All the repair work shall be carried out by professional personnel.

Please contact the sales department of our company if you need to adjust or replace the components.

### 9. 1 Precautions during maintenance:

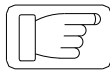


### Notice

The components for replacement shall be produced completely by our company. When replacing components of the truck, the components with the same safety requirement with the original design shall be used.

The lubricating oil and hydraulic oil in use shall be recommended by our company.

(1) Places for maintenance:



### Notice

The places for maintenance shall be appointed and can provide other services such as hoisting and safety protection facility etc.

The places shall have level ground and good ventilation.

The places shall be equipped with fire-extinguishing devices.

(2) Precautions before repair and maintenance:



### Notice

No smoking.

Arrange the self-protection work.

Wipeout the effusive oil in time.

Before adding lubricating oil, clean up the dirty oil or dust on the joint with brush or cloth.

Except certain situation, turn off the key switch and pull off the power socket.

Lower down the fork arms to the lowest point when carrying out maintenance.

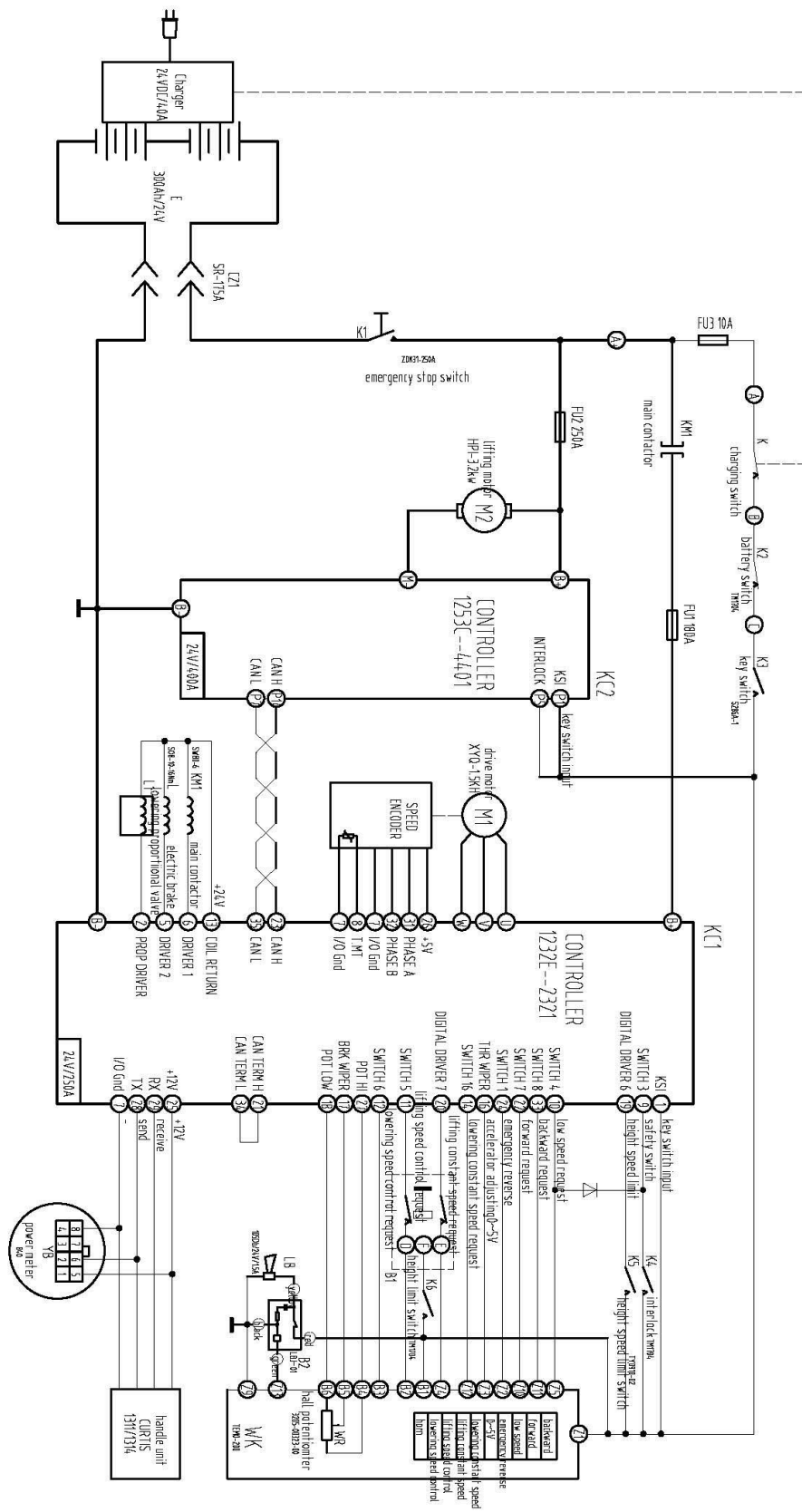
Ensure no goods on the truck when demounting the high pressure oil pipe. Besides, the fork arms shall be descended to the lowest position, by this way, the pressure of hydraulic system can be released.

For the reason that there are capacitors storing a little amount of electric energy in circuit, so before contacting the binding post of the main circuit, discharge at first.

Clean the electric section with compressed air, never flush with water.

When the truck requires high-position maintenance, the altitude safety protection must be carried out for the repairing and maintenance personnel.

			main contactor open, electromagnetic brake V.		
VMN HIGH	waiting for traction	Motor output voltage higher than expected	Valve, pump motor and traction motor stop turning, main contactor open, electromagnetic brake.	start-up	valve, lifting or traction request
POWER MOS SHORTED	waiting for traction	Power MOS tube is shorted.	Valve, pump motor and traction motor stop turning, main contactor open, electromagnetic brake.	start-up	valve, lifting or traction request
COIL SHORT HW KO	waiting for traction	Problem on the hardware circuit which manages shortcircuit on main contactor and eletromagnetic brake coil.	Valve, pump motor and traction motor stop turning, main contactor open, electromagnetic brake.	start-up	valve, lifting or traction request
COIL SHORTED	waiting for traction	Short circuit on main contactor or brake coil.	Valve, pump motor and traction motor stop turning, main contactor open, electromagnetic brake.	standby, traction	valve, lifting or traction request
DRIVER SHORTED	waiting for traction	Short circuit on the driver of main contactor coil, which is not able to close.	Valve, pump motor and traction motor stop turning, main contactor open, electromagnetic brake.	start-up, standby, traction	valve, lifting or traction request
CONTACTOR DRIVER	waiting for traction	Driver of main contactor coil is	Valve, pump motor and	standby,	valve, lifting or traction



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