

OPERATION & SERVICE MANUAL
PARTS CATALOGUE

ELECTRIC PALLET TRUCK



WARNING

Only drivers who have received formal training or are authorized can be allowed to drive the truck.

When operating the truck, please always wear safe shoes. When assembling or disassembling the truck, please always wear safety goggles.

When running, please watch out your feet to avoid injury crushed by drive wheel. Please do not use this product to carry people. Please do not use this product on a slippery surface, such as grease, ice or snow.

Do not travel on too steep slopes to prevent cargo from slipping. Operators should not leave the product in an active state to avoid accidents.

When using this product, please observe the surroundings, do not distract.

Operation in refrigerating warehouse or some low temperature, salt containing or other corrosive environments shall be strictly forbidden. No operation in raining outdoor environment. This electric truck is only limited to utilization indoor with a hard flat floor.

Overloading operation is forbidden.

The piling of goods should be controlled to avoid sight blocking, goods falling-down or truck tipping-over

No sharp turn on narrow aisle. When turning, slow down the truck so as to ensure the safety of personnel and goods.

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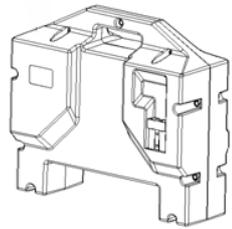
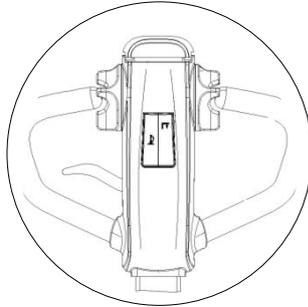
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04/ PARTS CATALOGUE

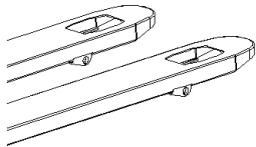
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01/ DESCRIPTION

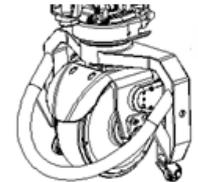
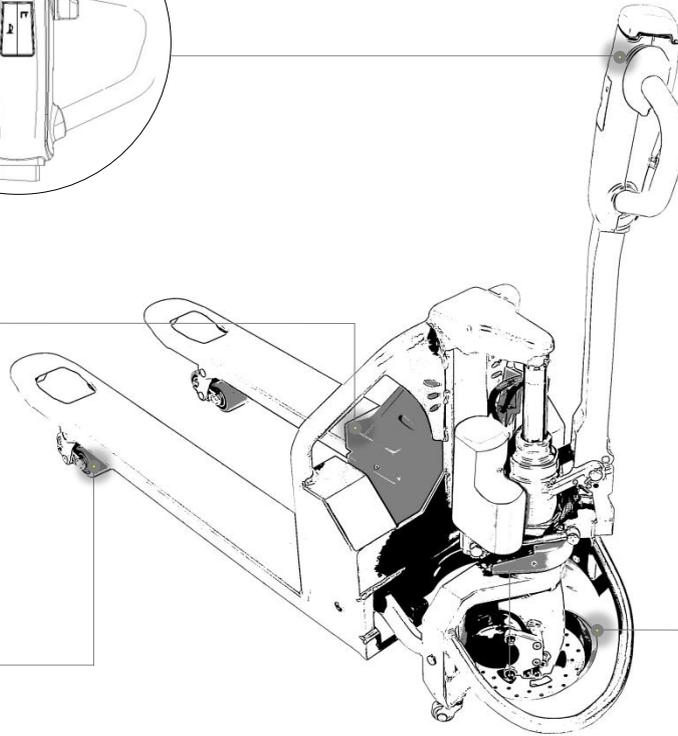
Multi-function control handle



Lithium battery



Tapered forklift tips
tandem PU rollers

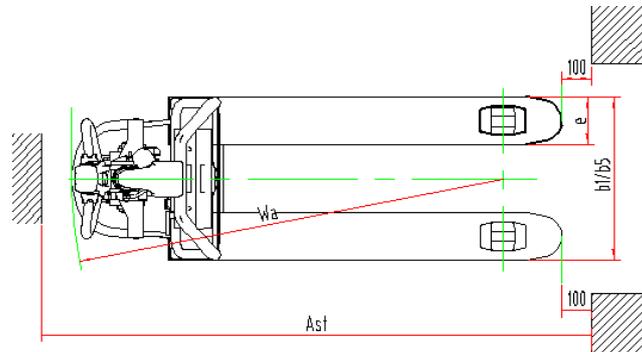
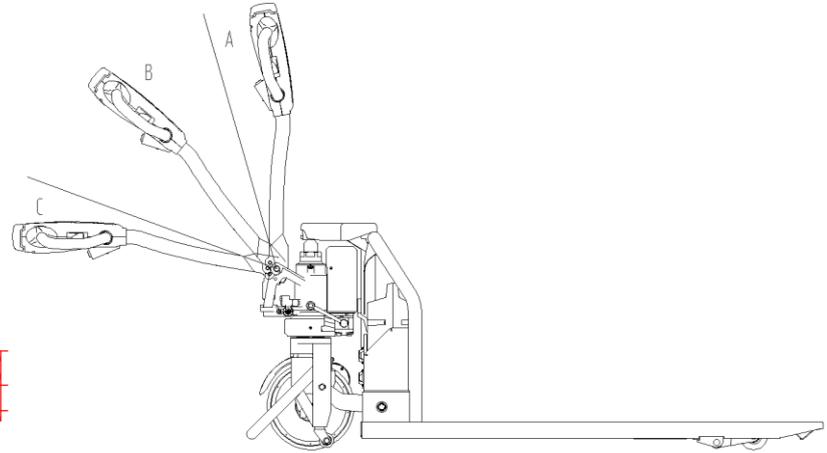
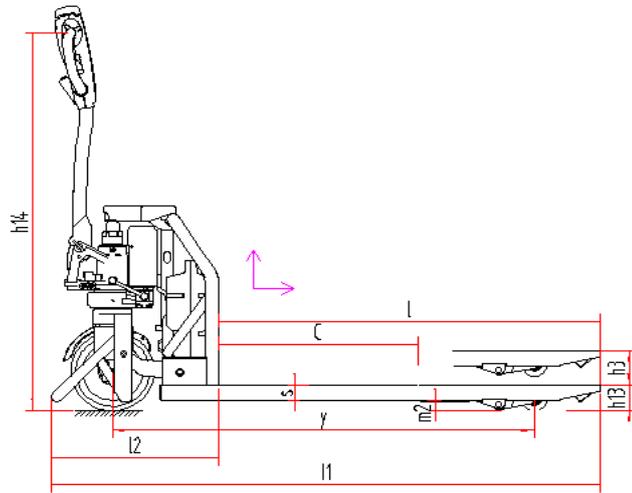


Driving wheel

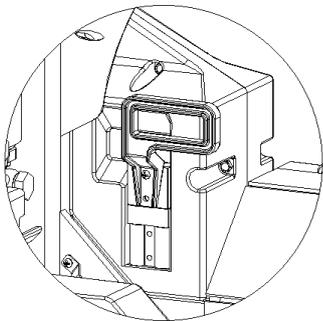
		Imperial	Metric	
Manual Model	Model Name			
	Load Capacity	2640 lbs	1200 kg	
Chassis Dimensions	Pallet Forks	Lowered Height	3"	80 mm
		Fork Length	45"/48"	1150/1220 mm
		Overall Fork Widths	22"/27"	550/680 mm
	Maximum lifted height	4.3"	110 mm	
	Service Weight	286 lbs	130 kg	
Battery	Battery type	lithium		
	Rated Voltage	48V/20Ah		
Turning Radius		57"/59"	1452/1522	
Overall length		65"/68"	1651/1721	



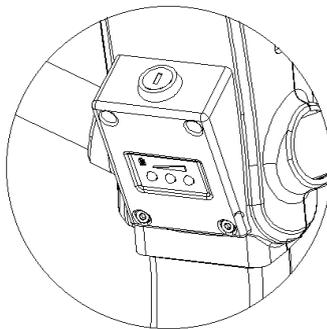
- This truck is suitable to operate on indoor hard and smooth ground. It is not allowed to operate the truck for unsuitable applications.
- The ambient air temperature does not exceed +40°C or below -10°C.
- For hard and flat ground only.
- It is forbidden to use this truck in flammable, explosive, acid-base or other corrosive environment.
- The loaded maximum gradeability is 3%.



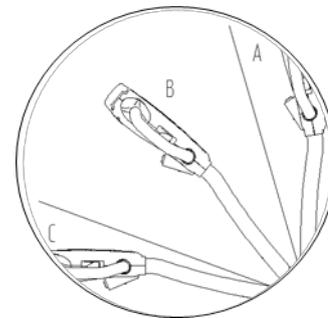
02/ OPERATION



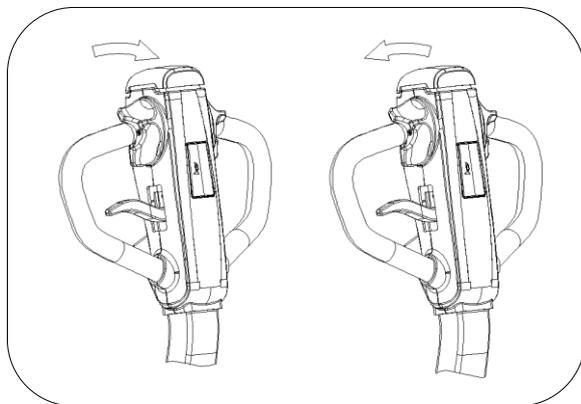
Connect the interface of lithium battery.



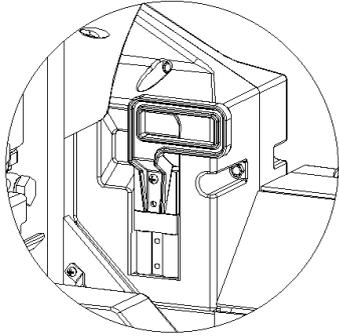
Turn on the key switch.



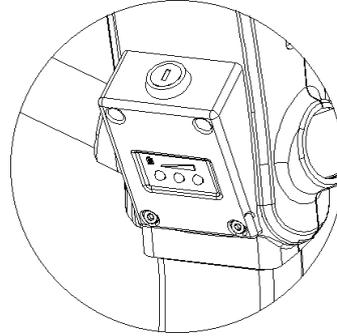
Pull the handle to section B.
A and B are breaking section.



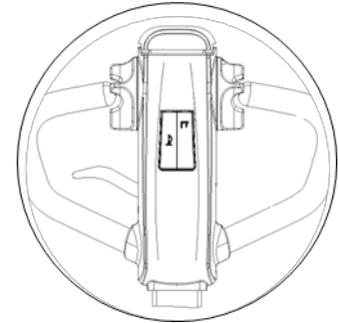
Rotate the accelerator to start the truck slowly (for safety, no abrupt acceleration) .
Return the accelerator to neutral position to stop the truck.



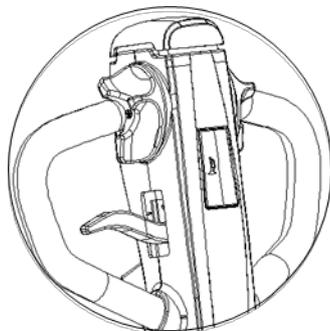
Connect the interface of lithium battery.



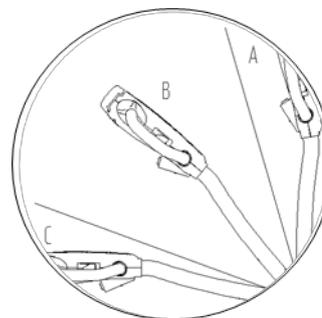
Turn on the key switch.



Press the lifting button on the handle to lift the forks. To lower, hold the lever tightly to lower.

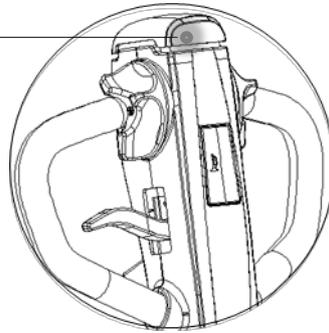


Release the accelerator for normal braking, the truck stop slowly by the regenerative brake of the motor until the brake lock the wheels.



Turn the handle to A or C quickly for emergency braking, then the brake lock the wheel to achieve the emergency braking.

Emergency reverse
button



THE EMERGENCY REVERSE BUTTON minimizes the possibility of the driver being pinned by the steering arm while driving the truck in slow speed.

If the switch presses against the operator while the truck is being driven toward the operator, the switch changes the direction of the truck.

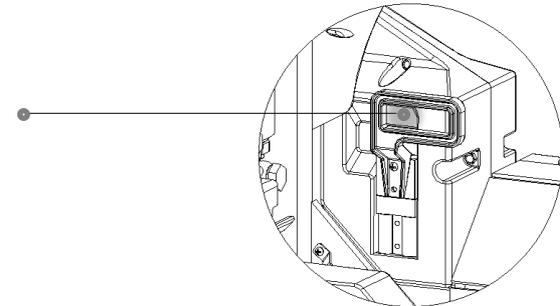
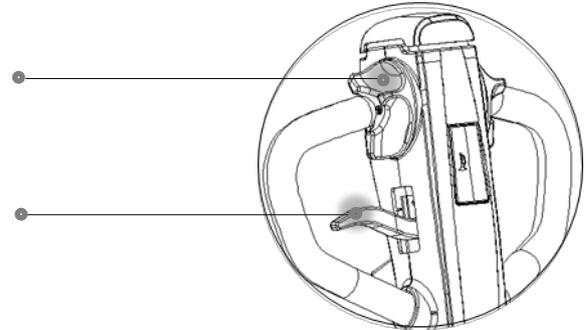
It is a safety button which avoids the extrusion of the truck to protect the operator from injured when he meets the obstacles.

Release speed control button to stop the truck.

Lower the fork to the lowest position.

Turn off the key switch and emergency stop switch.

Disconnect the battery wire off the truck if park for a long time.



03/ MAINTENANCE

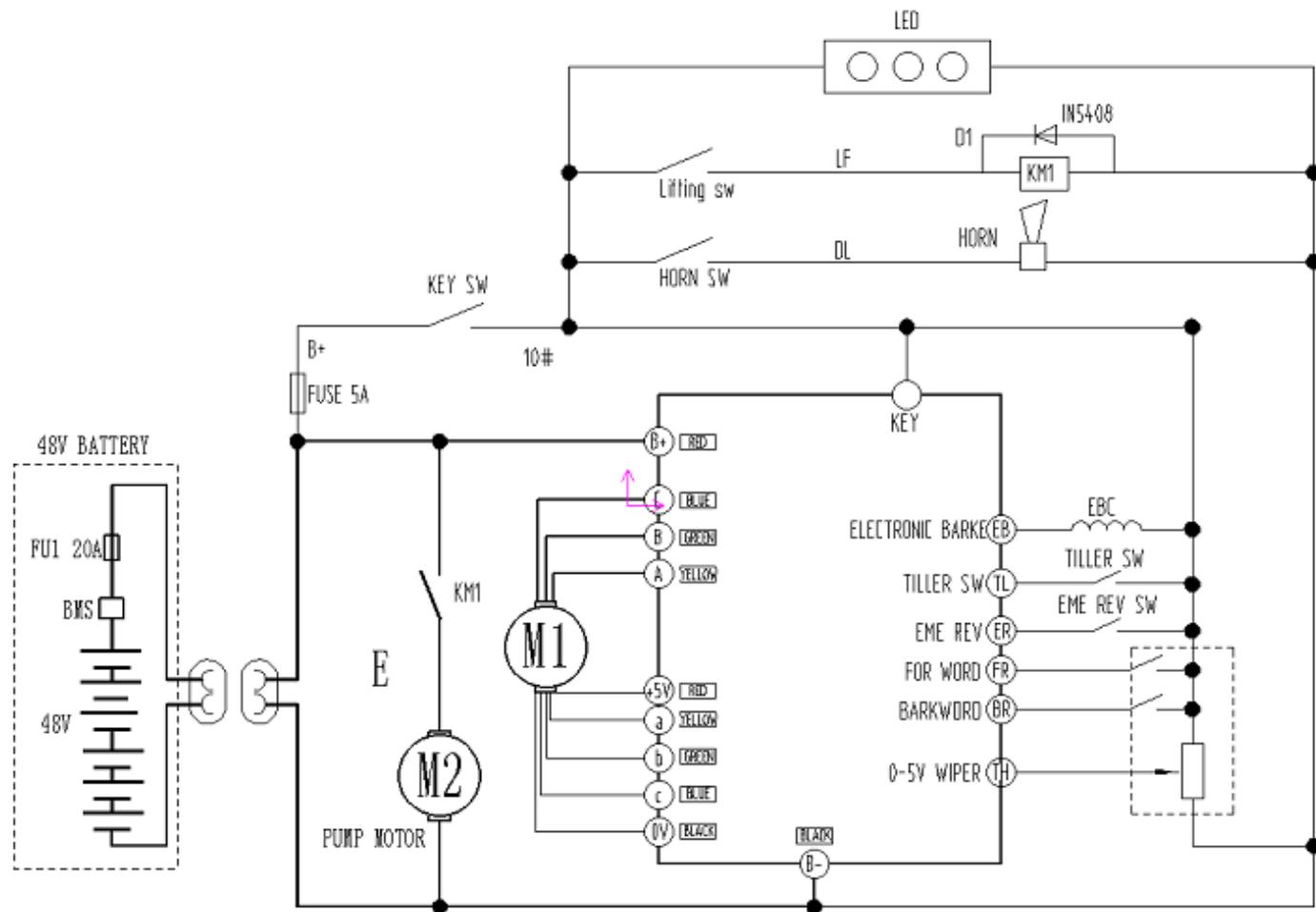
Daily Maintenance: To keep the surface clean and examine if the power supply cable is damaged.

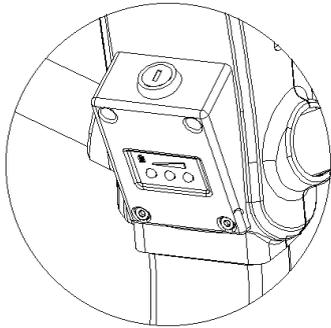
Weekly Maintenance: To check the condition of the operational components, all fastening items, if oil leakage, if abnormal wearing in mechanical components exists, if abnormal temperature rises or sparks in electric equipment, etc.

Periodic Maintenance

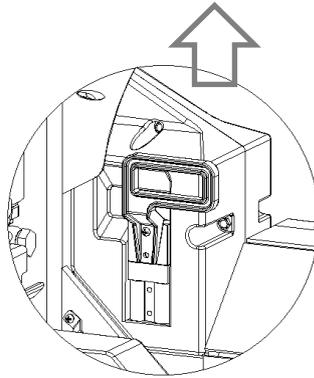
(Pls refer to the following table)

Electrical System Every three months check	Hydraulic system Yearly check	Mechanical system Every half a year check
<ul style="list-style-type: none"> <input type="checkbox"/> Check the reliability of electric connectors <input type="checkbox"/> Check the function of switches <input type="checkbox"/> Check the insulation of electric parts <input type="checkbox"/> The insulation resistance of electric equipment and the forklift body $\geq 0.5M\Omega$ 	<ul style="list-style-type: none"> <input type="checkbox"/> Check the sealing of hydraulic components and check for damage <input type="checkbox"/> Check the oil level <input type="checkbox"/> Check the state of oil cylinders <input type="checkbox"/> Check the condition of load limit valve <input type="checkbox"/> Oil to be replaced yearly 	<ul style="list-style-type: none"> <input type="checkbox"/> Check the gearbox for abnormal noise or leaks <input type="checkbox"/> Check the bearing and rotating flexibility of the drive wheel <input type="checkbox"/> Apply lubricant to rotating joints <input type="checkbox"/> Check fastening items for fixation, retighten, if necessary <input type="checkbox"/> Check the condition of the fork

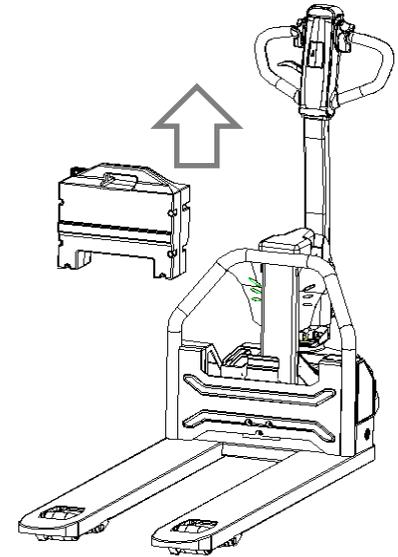




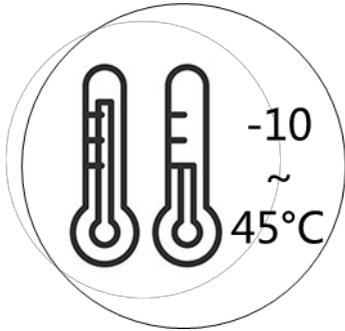
Turn off the key switch.



Pull the handle of the battery connector, unplug the battery connector.



Pull the battery handle upward, unplug the battery from the truck; replace with new battery.



Working ambient temperature of lithium battery is -10 ~ 45°C.



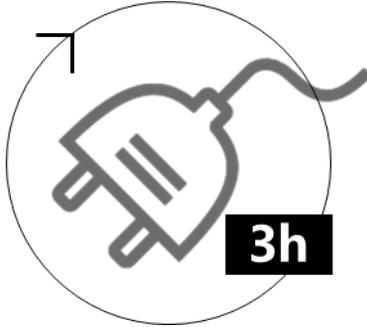
Charge and discharge the battery every 3 months when storing for long time.



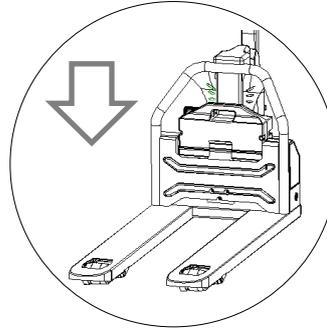
Keep the battery away from water or fire.



- Fully charge the battery before use.
- Do not short circuit the battery, which may permanently damage it.
- Do not weld the battery by yourself.
- Do not keep the battery in an unfavorable environment, such as extreme temperature, deep cycle, or often overcharge or over-discharge.
- When removing the battery, grasp the handle by hand, do not drag the wire.
- The battery may be hot after charging, cool it down in a ventilated environment.
- Do not try to separate, squeeze, or hit the battery. Batteries lye is harmful to the skin and eyes, and will damage the clothes
- Keep the battery away from the child and contact the doctor immediately if it is found to be swallowed.



The lithium battery needs only 3 hours to achieve full charge.



Plug in the battery according to the right positive and negative electrodes.



With full charged battery, the truck can work for 6 hours continually.



- Must use the special Li-ion charger of our company; working voltage of charger 48V, maximum charging voltage 54.6V, charging current 6-7A.
- Do not reversely charge the battery, check for the right positive and negative electrodes.
- Stop charging immediately if the battery is found abnormal hot during charging, recharge after cooling down naturally.
- Must hold the handle when unplug the battery connector, do not unplug the wire directly.

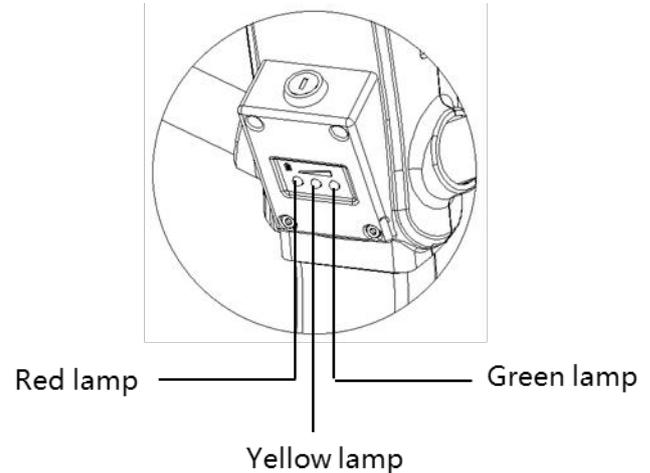
Power Lamp Indicator

Green lamp always on : 70%-100% power

Yellow lamp always on : 40%-70% power

Red lamp always on : 10%-40% power

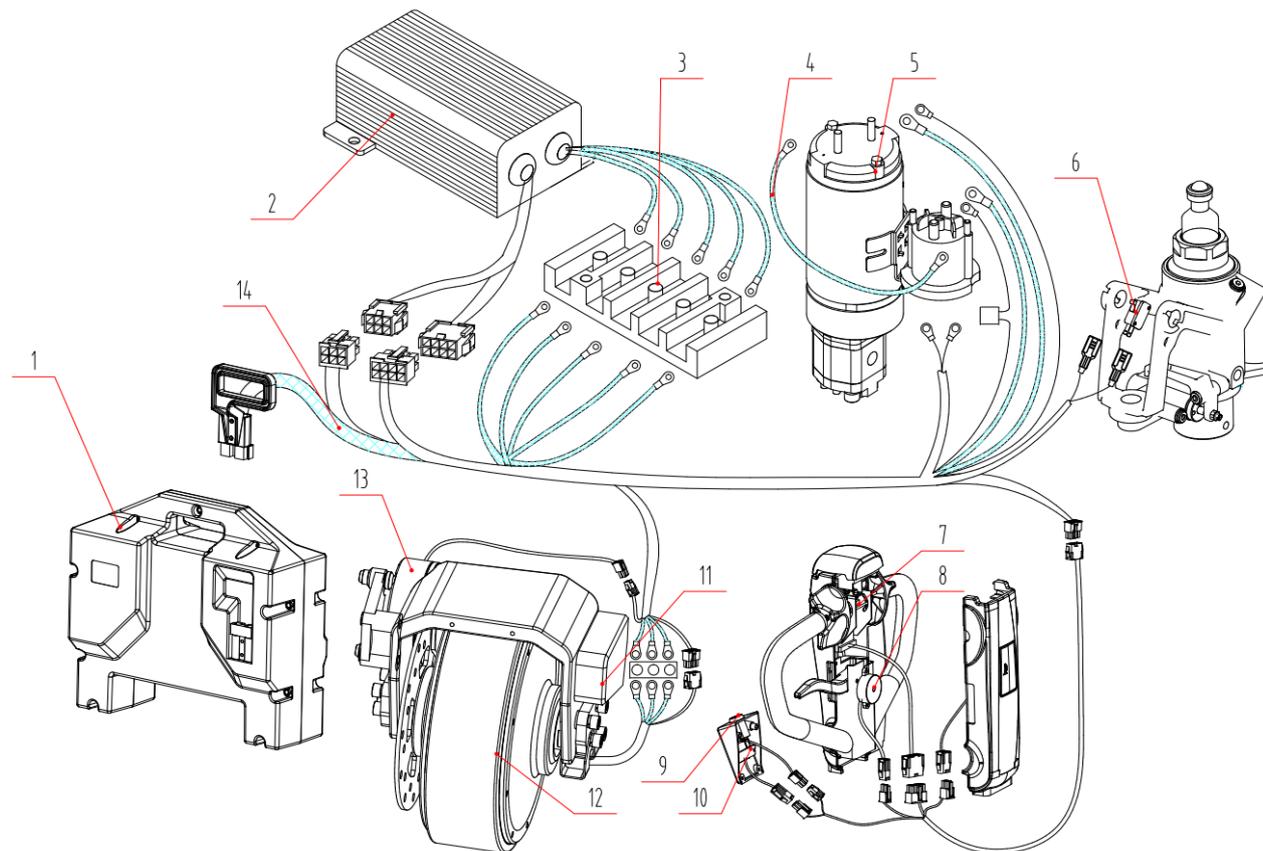
Red lamp flashes : Nearly empty battery voltage



- When the red lamp is on, it means low battery voltage, needs recharging.
- Red lamp flashes as a warning, indicating the truck is about to stop, charging is in need.
- If continue to use under the above circumstance, the power disconnect protection will be automatically carried out inside the lithium battery, then the truck will stop. The truck can move manually.

No.	Faults	Analysis of cause	Trouble shooting
1	Hydraulic oil leakage	<ol style="list-style-type: none"> 1. Failed oil seal 2. Slight damage or wear on the surface of one or two components 3. Loose connection 	<ol style="list-style-type: none"> 1. Replace the oil seal 2. Replace the damaged components 3. Re-tighten the connection
2	Fork does not lift	<ol style="list-style-type: none"> 1. Too great viscosity of hydraulic oil or hydraulic oil has not been injected 2. Foreign matters in the oil 3. The hydraulic power unit is damaged 	<ol style="list-style-type: none"> 1. Replace hydraulic oil 2. Remove the foreign matter in oil or replace hydraulic oil 3. Replace the hydraulic power unit
3	Fork does not lower	Manual lowering valve is not adjusted well	Adjust the position of lowering valve screw
4	The motor is unable to operate	<ol style="list-style-type: none"> 1. Power supply switch has not been turned on 2. Battery has completely discharged 3. Brake has not been released 4. Burnt fuse 	<ol style="list-style-type: none"> 1. Insert key and turn on power supply 2. Charging 3. Examine the stroke switch on the lever if it is pressed because of collision and if the braking switch has been reset. 4. Replace the fuse
5	The charger is unable to charge	Damaged charger	Replace the charger

The table above provides some common failures of the truck in operation and the trouble shooting



**Profession Makes
Value**