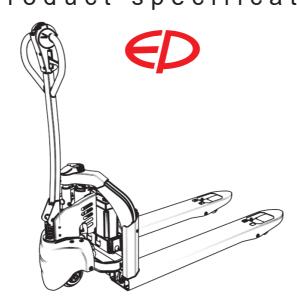
EPT12-EZ Pallet truck — Product specification—



EP EQUIPMENT CO., LTD.



EP EQUIPMENT CO.,LTD. is one of the world's leading companies manufacture, design material handling equipment and provide related service. With over 100,000 square meters plant it produces over 100,000 trucks per year, and provides professional, effective and optimized material handling solutions worldwide, until now it has developed three major kinds of business:

 Material handling equipment: Focus on electric forklift and warehouse equipment

•OEM parts: Global parts supply •Imow industry,online: One-stop industrial products supply

Guided by our customer-oriented concept, EP has developed service centers in more than 30 countries around the world, from which customers are able to receive timely local service. Moreover, 95% of warranty parts can be shipped out within 24 hours after been ordered. Through our online after-sales service system, customers can process their warranty claims, order spare parts and consult the operation manuals, maintenance materials and spare parts and consult the operation manuals, maintenance materials and spare parts catalogs.

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Based on the concept of sharing economy , EP also offer rental service for various logistics equipment. Adhering to the idea "Making the leasing of logistic equipment more simple", EP is devoted to providing customized one-stop leasing solutions for our customers with our high quality, reasonable price and prompt rental service.

EP's mission&vision is "Let more people apply the electrical material handling equipment to relieve the intensity of labour" and "Let's grow together".

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Internet address and QR code of Parts manual

By entering the address http://www.epcare.com in a web browser or by scanning the QR code, Login after registration, Select "Parts purchase" function and input part number or model name to find the truck.



Note: After registration, please send email to info@ ep-care.com to activate your account

Foreword

Please read this manual before use. This manual consists of four parts: User Instructions, Mode of Operation, Battery Use and Maintenance & Care.

 \sim 1.Vehicles can only be operated by trained professionals and the use by non-staff members is prohibited.

- 2. When hoisting vehicles, lifting tools can only be fixed on the specified nodes to prevent slipping.
- 3. Modification of the vehicle is prohibited without permission.

The following symbols will appear in this manual, representing safety instructions and important explanatory notes, respectively.



WARNING: Indicates safety instructions that must be followed as this may result in personal injury or death.



CAUTION: Indicates instructions that must be followed, otherwise material (goods or products) may be

damaged.

- DESCRIPTION: Indicates relevant description.
- Represent standard components.
- Represents optional components.

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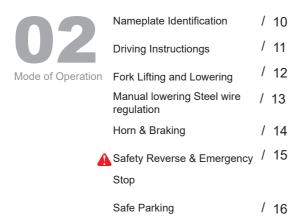
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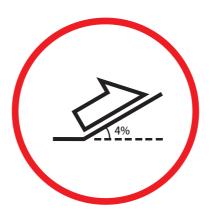
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·Due to the particularity of the lithium battery, please use this product at -10 $^{\circ}$ C ~ 45 $^{\circ}$ C



•The big wheel version of this vehicle can climb gentle slope below 4% at full load, 10% at no load. Small wheel version can climb gentle slope below 2% at full load, 8% at no load. To protect the motor, long time climbing is not recommended.

·Only operate in dry conditions.





•Please operate the truck properly and carefully to avoid foot injury crushed by drive wheel.



 $\cdot \mbox{Please}$ do not use this product to carry people.



•Please do not use this product on a slippery surface, such as grease, ice or snow.





 $\cdot \text{Do}$ not travel on steep slopes to prevent cargo from slipping.



 $\cdot The product must be switch OFF when unattended.$



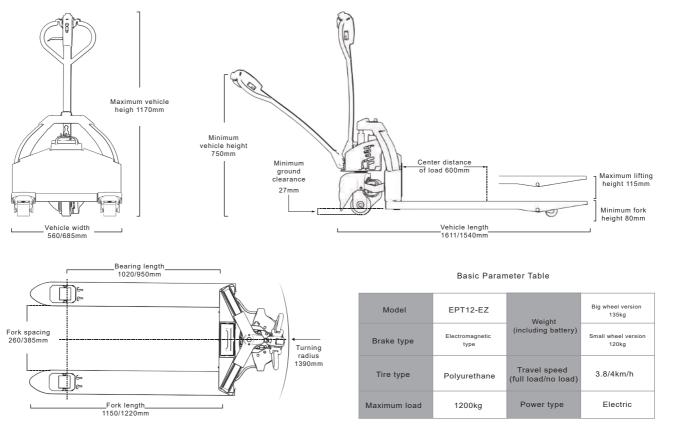
•When using this product, please observe the surroundings and do not get distracted.





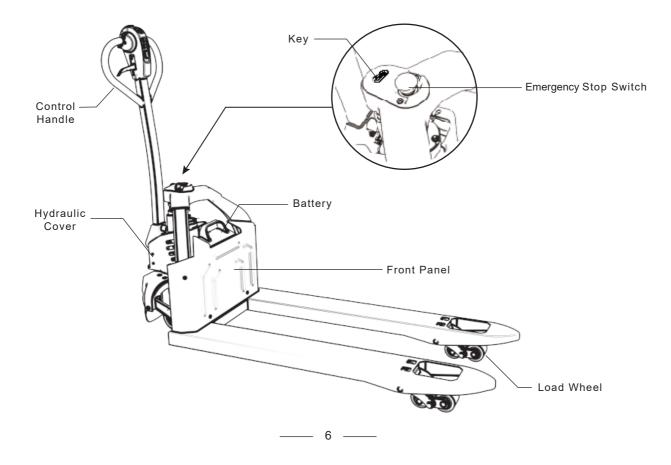
 $\cdot \mbox{Please}$ pay attention to moving parts and stay clear of pinch points.

Product Technical Data

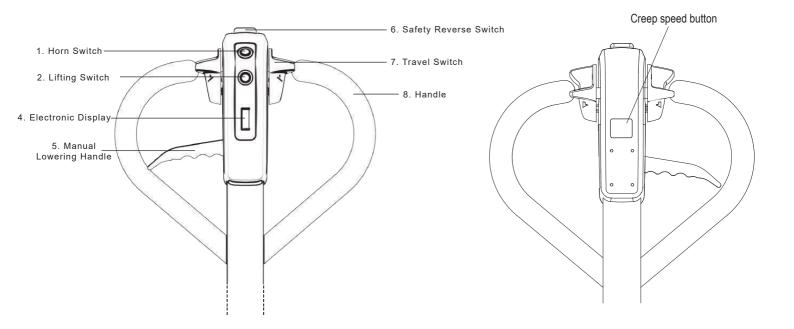


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Product Description

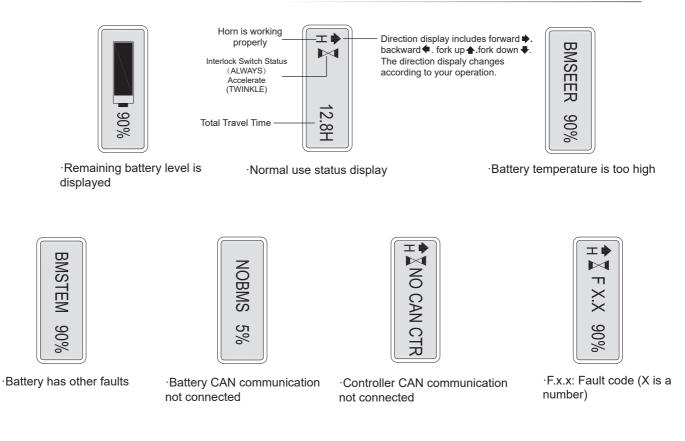


Control Lever Description



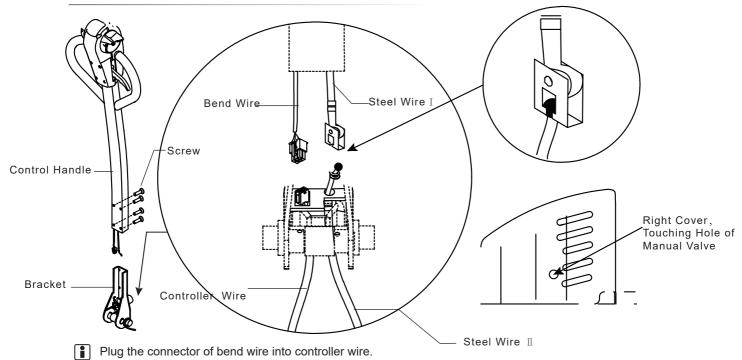
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Screen Display



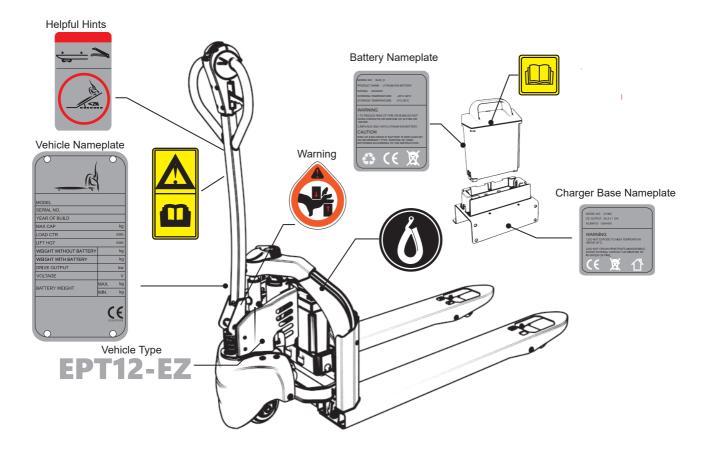
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Control Handle Installation

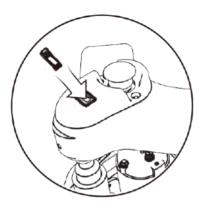


First, Make screwdriver touching and pinning manual valve from touching Hole of Manual Valve of Right Cover. The steel wire I rising up, Buckle end of the steel wire I into end of the steel wire I from manual. Release the steel wire I and tighten the adjust screw.

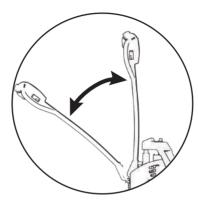
Nameplate Identification



Driving Instructions



1. Place the magnetic key in the key hole to turn on the power.

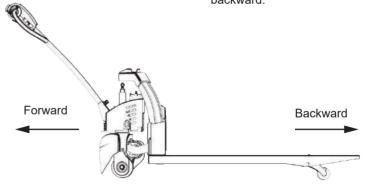


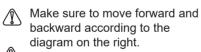
2. Tilt the operating lever to the driving position.

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3. Turn the travel switch to move the vehicle forward or backward.

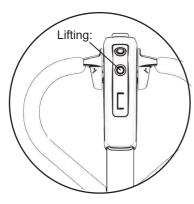




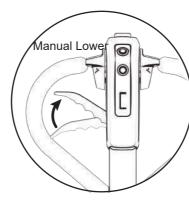
Please check the vehicle daily before use.

- Travel switch can adjust the travel speed of vehicle.
- Release the travel switch to brake the vehicle.

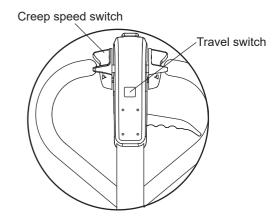
Fork Lifting & Lowering



Lifting: Press the integrated lift button on the control lever and hold. The fork will be lifted to its maximum height and stop on its own.



Manual lowering: Pull the manual fork lowering switch and hold. The fork will be lowered to its minimum height and stop on its own.

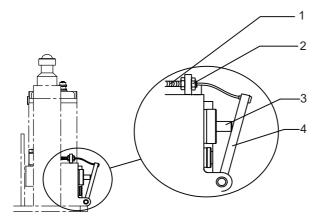


O Keep the handle in the vertical state, and press creep speed switch and travel switch at the same time, then the vehicle will move at a speed of 20% of the maximum speed.

Before picking up the goods, make sure that the goods are properly palletized and that the weight does not exceed the rated load.

ightarrow Make sure that the forks is completely under the goods before you travel the truck.

Manual lowering Steel wire regulation



1. Forks can not lift

Cause: Lowering plate(4) touches the manual valve(3), which makes the hydraulic system relief.

Solution: Adjust the connector towards the lowering plate(4) direction, and adjust the nut(2) to make the lowering plate(4) just touch the manual valve(3), and then fasten the nut(2).

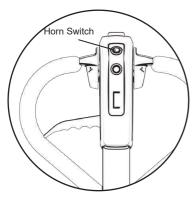
2、 Forks can not lower

Cause: Distance between Lowering plate(4) and the manual valve(3) is too big, which makes them not touching and can't open the hydraulic system relief.

Solution: Adjust the connector backwards the lowering plate(4) direction, and adjust the nut(2) to make the lowering plate(4) just touch the manual valve(3), and then fasten the nut(2).

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Horn & Braking



•Press the horn switch to give an audible waming sound.

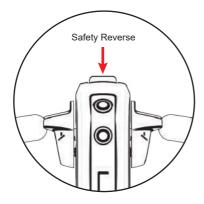


•Tum the travel switch against the direction of travel to smoothly brake and stop the truck.

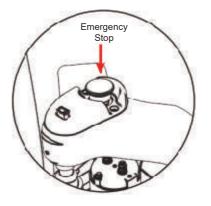
Driving Area Parking Area

•When the handle lever is release to the vertical position or press down to the 70°, the parking brake is applied.

A Safety Reverse & Emergency Stop



·By pressing this switch, the vehicle starts to travel in the opposite direction



•By pressing this button, the vehicle will be cut off from all the power and stop working.

If safety reverse switch bounces back slowly, it indicates a fault. The cause must be located and removed. The spring can be replaced if necessary.

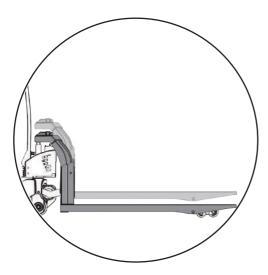


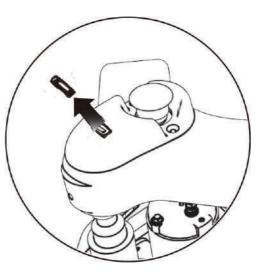
Safety reverse button can be pressed in a variety of ways, such as with belly.

By pressing the emergency stop switch, the button is locked. Turn it half circle clockwise to release. It will bounce up by itself. Do not forcefully pull up.

Braking distance will be significantly affected by the road condition and should be considered by the operator.

Safe Parking





1. Lower the forks to minimum height.

2.Remove the key.

Do not park the vehicle on a slope.
The forks must be lowered completely.
For long time parking, please remove the battery and refer to the Maintenance & Care section.

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Lithium Battery Precautions



·Please prevent the battery from water or infiltration of any corrosive liquid.

 $\cdot Do$ not let the battery close to any open flame, heat, flammable and explosive objects. $_{\circ}$

•Do not place the battery vertically on a conductive object to prevent the electrode from being touched by protruding objects.

Once the above situation occurs, it may cause the battery to generate leakage, heat, smoke, and may cause serious fire or explosion.

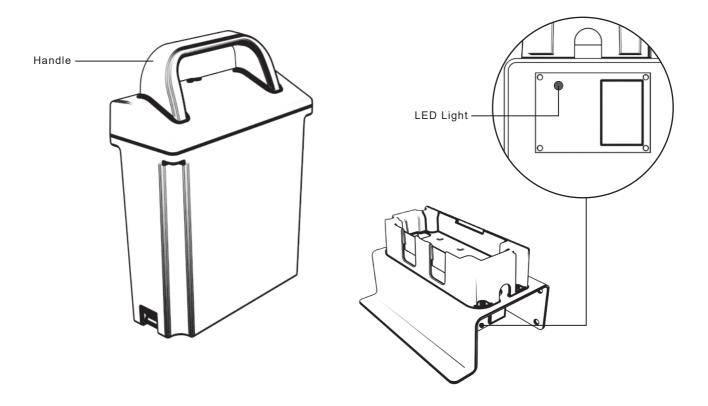




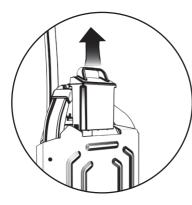
 \cdot Charge the battery at an ambient temperature of 0 to 40°C.

In case of battery fault, please contact the dealer to make appointment for repair. Never attempt to disassemble the battery.

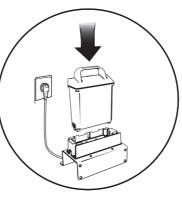
Battery & Charger



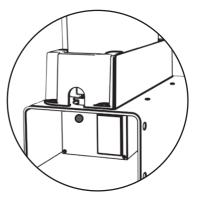
Battery Charging



1.Lift the battery out of the vehicle.



2.Insert the battery into the charging base



3.The LED light lights up.

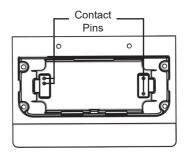
LED MODE

Charging mode : LED Red on Full charged : LED Green on Battery fault : LED Yellow on Charger fault : LED Yellow flash

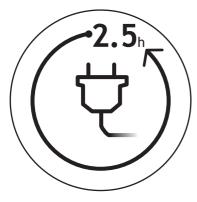
- Before removing the battery, make sure that the vehicle is completely powered down.

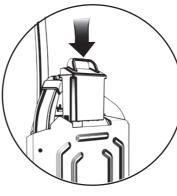
/ The figure on the right shows the top view of charging base contact pins. Please plug the battery accordingly. Do not plug reversely.

/ If your battery is not fully charged after more than 5 hours, contact your dealer.



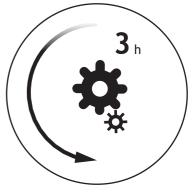
Charge Completed





·The battery is fully charged after 2.5 hours of charging at 100 \sim 240V AC.

·Insert the battery into the battery compartment of the vehicle.



 $\cdot The battery can be operated continuously for 3 hours in a fully charged state.$

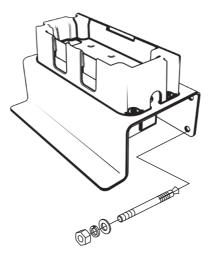
Before plugging the battery back, please make sure that the vehicle is still in the power-off state.

Please identify the positive and negative electrodes according to the pins as shown on the previous page. Do not plug reversely.

Due to the particularity of lithium batteries, the battery capacity will have a certain attenuation when used in a low-temperature environment.

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Charger Installation





Charger is recommended to be installed to the wall with expansion screws .

Maintenance & Care

Please replace the wheels with the tires specified by our manufacturer. Non-conforming tires can affect the performance and stability of the product.

Do not clean the truck with flammable liquids.

After the first 100 hours of operation, the truck must be fully inspected and maintained. Thereafter conduct maintenance once every 250 hours.

If the vehicle is to be parked for longer than a month, it must be placed in dry and frost-free environment.

When not in use, remove the battery.

If the parking time is within one month, fully charge the battery first, if over one month, battery needs to be charged once a month.

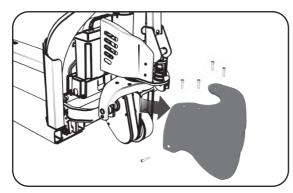
Before maintenance, make sure that the power supply has been completely disconnected.

Please shorten the maintenance interval if the working environment is dusty, working in fluctuant temperature place or heavy duty jobs.

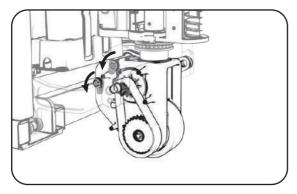
Regularly add lubricant to the chain.

If the battery has bad smell overheating or deformation during charging, stop the charging immediately and disconnect the charger power supply. Contact to your dealer.

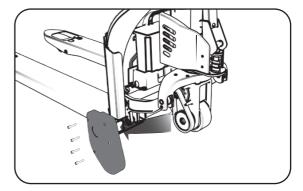
• Cover Replacement & Chain Adjustment



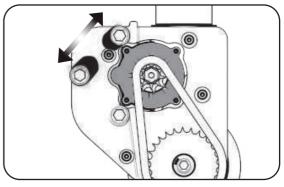
1.Remove the drive cover.



3.Loosen the two screws .

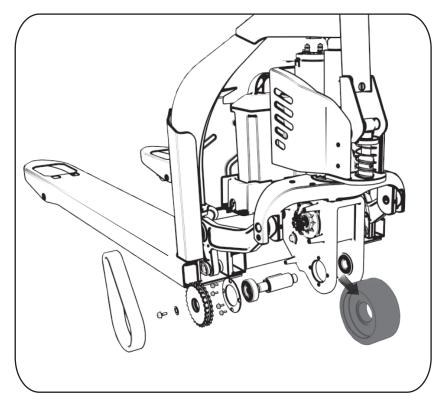


2.Remove the chain protection cover



4.At this point you can adjust the chain tension.

• Drive Wheel Replacement



1.Remove the chain (see the cover & chain replacement).

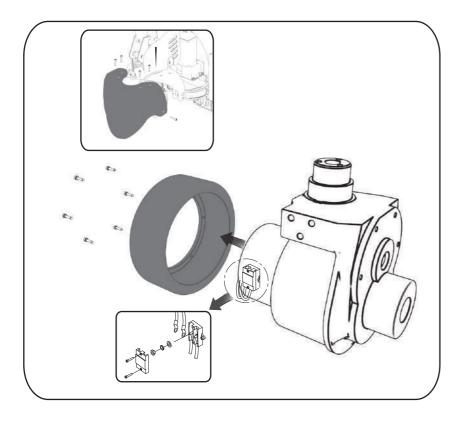
2.Unscrew the screw with a wrench and remove the large sprocket.

3.Unscrew the four screws with a wrench and remove the guard.

4.Remove the bearing , axle and drive wheel in sequence from the bracket.

5.Install by following the removal sequence in reverse.

ODrive Wheel Replacement

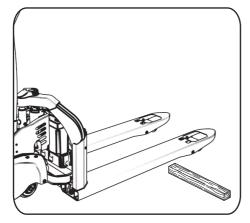


1.Remove the drive cover.

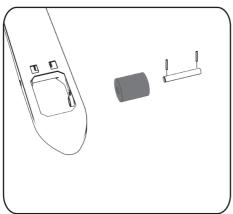
2.Dismantle the motor cable mounting base ,and remove the motor cables.

3.Loosen the six screws with a wrench, and knock out the drive wheel from the drive assembly.

4.Install by following the removal sequence in reverse.

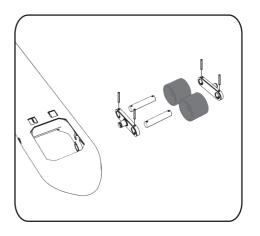


1.Place a wooden wedge under the chassis near load wheel to make the load wheel off the ground.



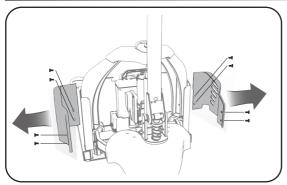
3.Remove the coiled elastic cylindrical pin within the wheel bracket with an ejector pin; Knock out the wheel pin shaft from side and remove load wheel and bearing assembly.

Load Wheel Replacement

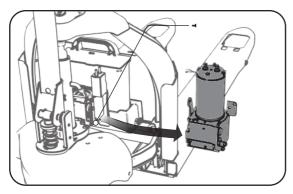


2.Remove the coiled elastic cylindrical pin within the wheel bridge with an ejector pin; Turn the wheel bridge to vertical direction, knock out the wheel pin shaft from side and remove the load wheel and bearing assembly.

Hydraulic Oil Replacement

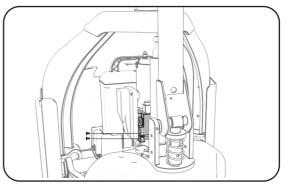


1.Remove the two side panels.

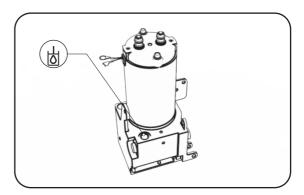


3.Remove the hex screw on the right. The pump housing and motor can then be removed.

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2.Remove the two hex screws on the left side.



4.Remove the plug and drain the old hydraulic oil from this hole.Refill with new oil.

Maintenance Checklist

Frame Structure	Check if all supporting parts are in good condition
	Check the bolts and screws connection are tight
Drive System	Check the gearbox for abnormal noise or leaks
Wheel	Check for wear and damage
	Check support and fixation
	Check wheel bolts for fixation.Retighten if necessary
Steering and Braking	Check the steering bearing clearance
	Check functions and settings
	Check the spring compression and for damage
Lifting Device	Check functions and wear
	Check the load frame and moving parts for wear and damage

To ensure long-term safe operation, the checks in the above list shall be carried out every six months.

Maintenance Checklist

Hydraulic System	Check functions
	Check the sealing of hydraulic components and check for damage
	Check the oil level
Electrical System	Check functions
	Check the cables for damage and if the terminals are secure
	Check if the safety devices parameter values are correct
	Check if alarms and safety switches are functioning properly
Motor	Check the motor fixation
Lithium Battery	Check if the terminals are fixed, and apply electrode bolt special grease
	Check the battery cables for damage and replace if necessary



 \triangle To ensure long-term safe operation, the checks in the above list shall be carried out every six months.