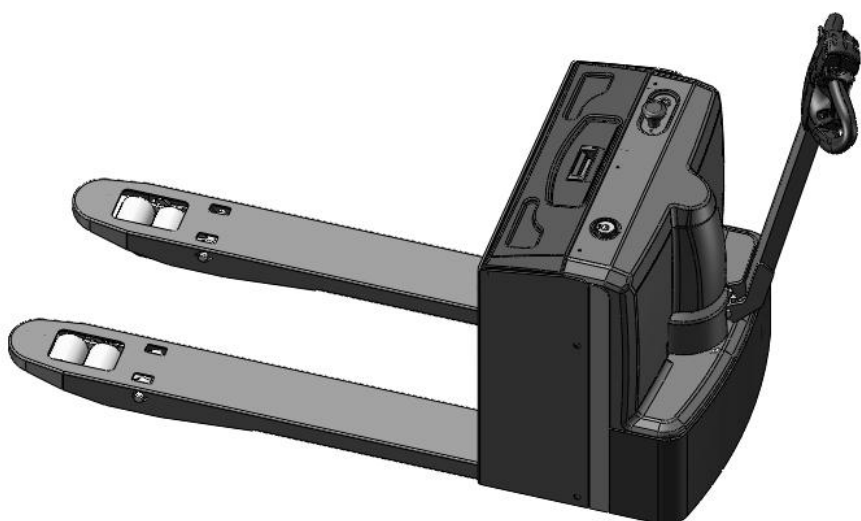


Electric pallet truck(Walkie model) 2.5T CBD-25J

Instruction Manual



WARNING

- Read this instruction manual carefully and follow all warnings before operation.
Please make sure that the safety components are not damaged at all times.
- Do not use this device if all parts are not fully installed.

Foreword

1. Before using the CBD-25J series forklift - fully electric pallet truck, please carefully check whether the product meets your order requirements and working conditions, and whether the product certificate, operating instruction manual and other technical information are complete.

2. This operating manual will tell you how to use the pallet truck correctly. This operating manual guides you to safe operation and preventive maintenance. Relevant operators and maintenance personnel must read this manual carefully before using this product. Only in this way can the maximum use of this truck be achieved and your safety be protected.

As our company's products are constantly updated and improved, the pallet truck you have may be slightly different from some of the descriptions in this operating manual. Due to the special requirements of some customers, the operating manual of the pallet truck may also be different. We reserve the right to make technical modifications to the product. If there is any discrepancy between the content of the manual and the actual product, the actual product shall prevail and the manual is for reference only.

3. If you have any questions, please contact our sales department or agents.



Warning!!!

To protect your and others' personal safety, please strictly follow the following safety instructions .

If proper maintenance is neglected , there will be certain safety hazards in using the truck. Therefore, it is necessary to have sufficient maintenance equipment as well as professional maintenance personnel and plans.

Maintenance and inspection for changes will be performed in accordance with the following terms:

1.The maintenance, lubrication, and inspection schedule for pallet trucks must be strictly followed.

2.Personnel who maintain, lubricate and inspect the trucks must be qualified and authoritatively approved.

3.Before leaving the truck:

- ① Parking on slopes is prohibited.
- ② Fully lower the forks.
- ③ Check whether the handles at each part are reset in place and whether the compression springs are normal.
- ④ Press the emergency stop switch.
- ⑤ Turn the switch lock to the stop position and remove the key.

4.Before you begin:

- ① The operator must be in the operating position.
- ② Place the control handle in a natural position.
- ③ Before operation, check whether some routine functions such as lifting, steering, speed control, braking, etc. are normal.

5.Try to avoid fire during operation, and fire-fighting equipment must be available on the truck. Do not use open flames to check the electrolyte or other oils, the electrolyte level, or whether there is leakage.

6.Braking, steering, control and safety devices should be inspected and maintained regularly to keep them in good performance.

7.All nameplates and safety signs on the stacker should be cleaned regularly to ensure that their contents are clearly visible.

8.Hydraulic systems should be checked regularly based on usage. Cylinders, hydraulic valves and other hydraulic components should be checked to ensure that there is no leakage.

9.The truck must be parked in a clean and non-humid environment to minimize the possibility of fire.

10.When the forklift is moving, the height of the forks must be $\leq 200\text{mm}$ from the ground. When the forklift is operating, people are strictly prohibited from standing on both sides and the goods must be evenly placed on the forks, and offset is strictly prohibited.

11.When the cargo is close to or on the ground, the forklift should be operated to avoid the cargo hitting the frame and causing unnecessary losses.

12.Without the manufacturer's consent, customers are not allowed to change or increase the load of the truck. If permitted, the nameplate and safety signs on the truck should be changed accordingly.

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1. Purpose

This truck is a multifunctional truck powered by batteries and hydraulically lifted. It has the characteristics of compact structure, small size, light weight, convenient operation, flexible movement, stable speed increase, safety and reliability, and convenient maintenance.

The machine is an ideal tool for transporting goods within warehouses, workshops and factories. It is especially suitable for operation in narrow passages, warehouses and other workplaces, and can enter elevators and floors for operation.

The forklift described in this operating manual is a ground conveying equipment, suitable for handling and transporting goods, and must not be used for transporting people. The truck must be used, operated and maintained strictly in accordance with the provisions of this operating manual.

Using the equipment for any other purpose is not in compliance with the prescribed operating behavior and may result in personal injury and damage to the truck or other property. The most important thing is to prevent overloading due to excessive load or bias to one side. The maximum load limit specified on the equipment nameplate or load diagram must be observed. The pallet truck should not be used in areas with fire and explosion hazards, nor in areas prone to corrosion, rust or dust.

Obligations and responsibilities of the equipment user : In the operating instructions manual, "equipment user" refers to any natural person or legal person who directly uses the forklift or appoints others to use it. In special cases such as renting, selling, and leasing, the "equipment user" represents the party who bears the prescribed operating obligations according to the terms of the contract between the equipment owner and the user.

The user of the equipment must ensure that the pallet truck is used only for the specified purpose and promptly eliminate any danger that may endanger the life and health of the user or third parties. In addition, the user of the equipment must strictly comply with the accident prevention regulations, other safety technical regulations, and equipment operation, maintenance and repair guidelines. The user of the equipment must ensure that all operators carefully read and fully understand the contents of these operating instructions.

If you do not follow these operating instructions, our company's quality guarantee will automatically become void. If the customer, equipment user or third party performs non-standard operations on the equipment without the permission of our customer service department, our company will not be responsible for any losses or liability arising therefrom.

Installation accessories: Additional devices that need to be installed or added, if they affect or supplement the functions of the truck, must be approved in writing by our company. Depending on the actual situation, it may also be approved by the local competent authorities.

Special statement: The review results of the competent authority do not represent the opinions of our company.

2. Main technical parameters

CBD-25J are shown in Figure 1 and Table 1

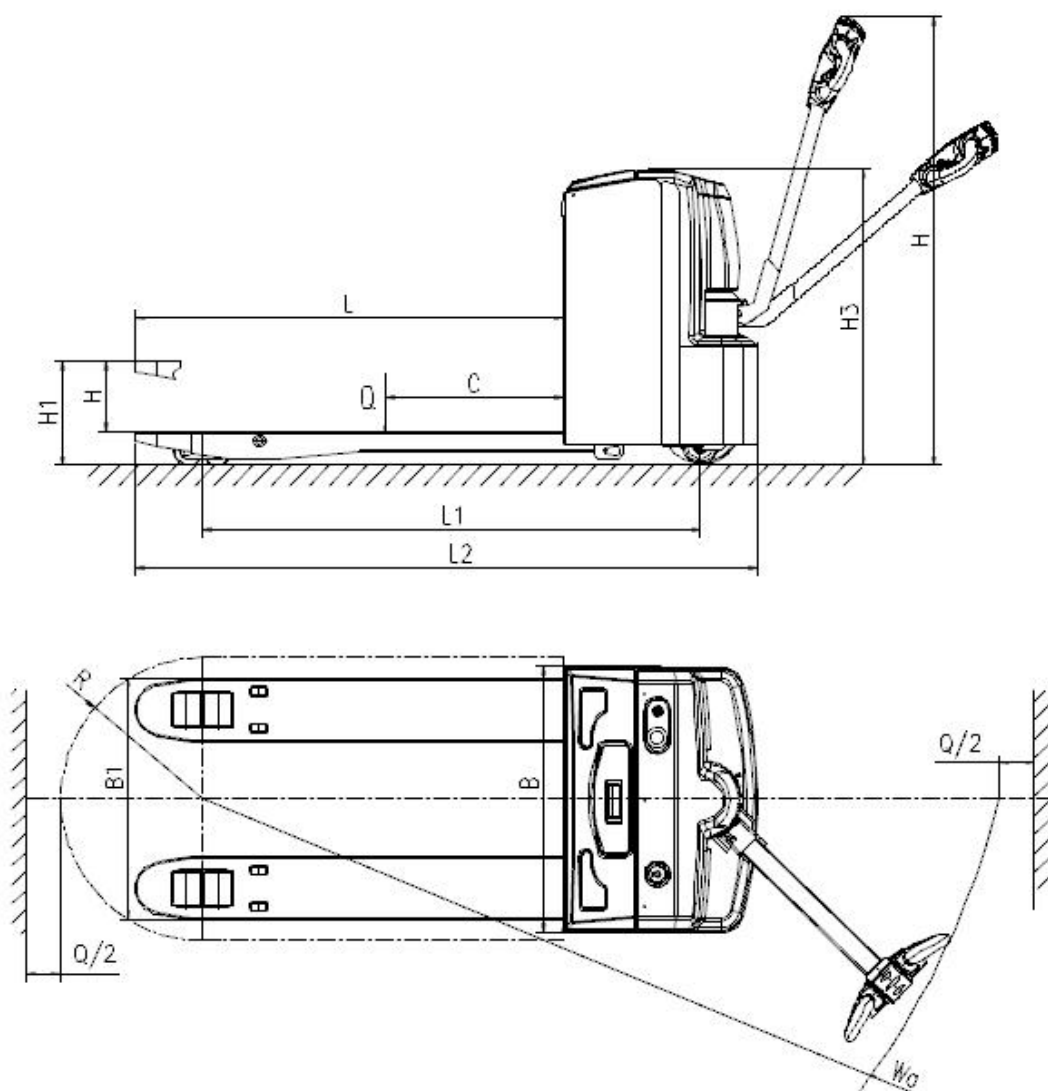


Figure 1

Table 1

	Serial number	Name/Code	unit	parameter
Feature	1	model		CBD-25J
	2	Rated load Q	kg	2500
	3	Load center distance C	mm	550
	4	Front and rear wheel track L1	mm	1400
	5	Powerplant		Battery
	6	Driving style		Walking

Wheel size	7	Front wheel size	mm	Φ80 × 95
	8	Training wheel size	mm	Φ100 × 40
	9	Driving wheel size	mm	Φ230 × 75
	10	Front wheel track	mm	420/520
	11	Training wheel track	mm	518
Size	12	Lifting height H	mm	200
	13	Lifting height + fork landing height	mm	200
	14	Minimum height of fork H2	mm	85
	15	Fork length L	mm	1200
	16	Fork outer width B1	mm	550/680
	17	Fork width B2	mm	180
	18	Fork thickness	mm	53
	19	truck length L2	mm	1850
	20	truck width	mm	755
	21	truck height	mm	1400
	22	Minimum turning radius WA	mm	2030
	23	Aisle width with 1000X1200mm pallet	mm	2930
	24	Aisle width with 800X1200mm pallet	mm	2840
Weight	25	Weight (including battery)	kg	400
Driving mechanism	26	Braking method		Electromagnetic brake
	27	Battery	V/Ah	48V / 85(65)
	28	Electronic speed control		MOS tube stepless speed regulation
	29	Machine running noise	dB	< 70
	30	Handle vibration value	M/S ²	<25
Performance	31	Full load travel speed, full load/empty load	km/h	4.5/ 5.6
	32	Maximum climbing capacity at full load, full load/no load	%	5/12

* The company reserves the right to change product design and specifications without prior notice. Please refer to the sample for specific parameters.

3. Operation Guide

3.1. Description of the use scope of the truck

This series of trucks are suitable for transporting goods on flat ground, and the rated load is detailed on the nameplate as rated load.

Ambient temperature: Applicable to environments between 5°C and 40°C. If the forklift is used in an environment below 5°C for a long time, in a cold storage or under extreme temperature and humidity changes, special equipment must be installed and the manufacturer's permission must be obtained.

3.2. Safety regulations for the use of the truck

Driving Permit: Forklifts can only be operated by specially trained technicians. Operators must pass the equipment usage test, master the skills of equipment driving and load handling, and be formally appointed by the equipment user or its client.

Driver's rights, obligations and code of conduct: The driver must understand his rights and obligations, receive guidance and training on the operation and use of ground conveying equipment, and be familiar with the contents of this operating manual. The user must grant the operator the rights he should have. If the operator needs to walk with the forklift when operating the forklift, he must wear protective boots.

Non-staff members are prohibited from using the equipment: During the use of the forklift, the driver is fully responsible for the equipment. Non-staff members are prohibited from driving or operating the forklift, and are not allowed to use the forklift to move or lift people.

Equipment damage and defects: If damage or other defects are found on the forklift and its accessories, the situation must be reported to the supervisor immediately. Forklifts with imperfect operating performance, such as worn tires or brake failure, must not be used without proper maintenance.

Equipment maintenance: Without special training and permission, the driver shall not repair or modify the forklift without authorization. The driver shall never disable or adjust safety devices and switches without authorization.

Dangerous area: Dangerous area refers to the area where people are at risk of injury. These hazards mainly come from the forklift itself, its load-bearing parts (such as forks and attachments, etc.), and the driving and lifting movements of the loaded goods.

The danger zone also includes areas that may cause danger due to the falling of loaded objects or the lowering/falling of working equipment.

Non-staff members must stay away from danger zones, warning signs must be hung in danger zones, and if non-staff members refuse to leave danger zones, the forklift must be stopped immediately.

Safety devices and warning signs: All regulations regarding safety devices, warning signs, and warning instructions in this manual must be strictly observed.

3.3. Operation Specifications

3.3.1. Check before use:

If the forklift is damaged during transportation, it is not allowed to be used. Please contact your dealer immediately.

The forklift has been filled with lubricating oil before delivery, and the hydraulic system has been filled with hydraulic oil.

If the forklift is equipped with a battery, it is already charged.

Before operation, carefully check the forklift to ensure there are no faults.

Perform a comprehensive inspection of the forklift, paying particular attention to the wheels and load-bearing components for damage.

Check whether the emergency stop switch is turned on.

Insert the key into the key switch and turn it to the right as far as the stop position.

The fuel gauge displays the battery's current state of charge and operating hours.

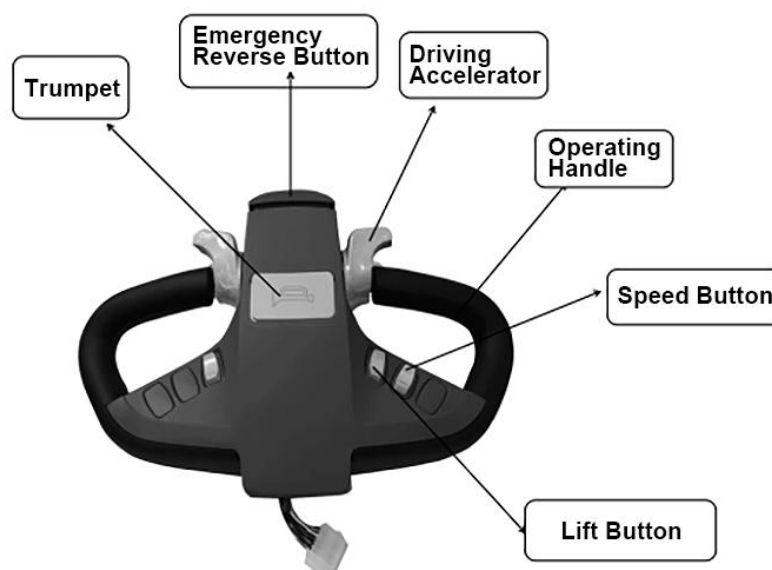
Check the brake function of the joystick.

3.3.2. Operation and safety regulations of trucks:

Before putting the machine into operation or lifting loads, the operator must ensure that no other persons are in the danger zone.

—Turn on the key switch and check whether the battery capacity is sufficient. If it is sufficient, it can be used immediately.

—Before use, check whether each part of the operating handle can operate normally. It can be put into use only after it can operate normally. If it is not normal, it must be put into use after the fault is eliminated. It is strictly forbidden to put it into use without eliminating the fault. The company is not responsible for any loss and liability caused by this.



After the above inspection, if the truck has no faults, the truck can be put into use. If there is a fault, please repair it in time. It is strictly forbidden to use a faulty truck.

3.3.3. Key switch

Switches the control current on and off.

When the key is turned to the right side, the forklift is powered on.

When the key is turned back to its original position, the forklift power supply is cut off.

Before leaving the truck, remove the key from the switch to ensure that the truck cannot be started accidentally.

3.3.4. Power module

The power module can display the power status, running time and the remaining battery power is shown in the figure below.

"1" refers to the light-emitting LED, which displays the battery power;

"2" shows the total running time of the truck.

3.3.5. Battery discharge indicator

After the truck is started by the key switch, the charging status is displayed on the display element.

The color of the LED (1) indicates the following different states:

Name	LED Color	Parameter Value
Remaining capacity of standard battery	green	70-100%
	orange color	30-60%
	Flashing Red	0-20%

When the battery is discharged to 70%, the red light flashes to issue a "power reserve" warning. When the battery discharge reaches 80%, the two lights flash to issue a "battery exhausted" alarm, and the battery must be charged.

3.3.6. Operating hours display

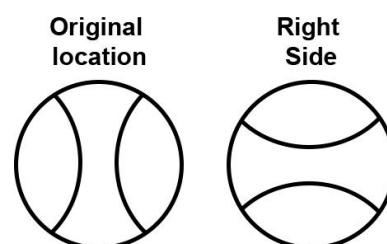
- Display range 0.0 to 99999.0 hours
- Record the total time of driving and lifting operations and display it in the background.
- Connection test

When the power is on, it will display:

- Operating hours
- Discharge status

3.3.7. Starting the truck

- Turn the emergency stop switch to on.
- Insert the key into the electric lock switch and turn it clockwise to position " I ".
- The battery gauge shows the current battery level.
- Check whether the speaker functions normally.

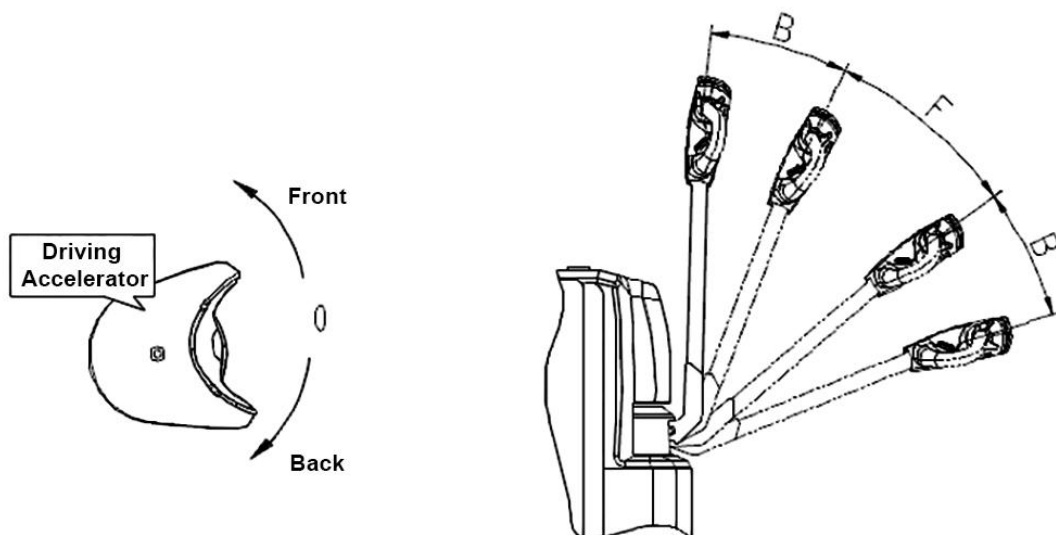


3.4. Safety operation regulations:

Precautions during driving: The operator must control the driving speed according to the on-site conditions. The truck must be driven slowly at bends, in narrow lanes, through swing doors, and in places where vision is obstructed. There must be enough braking distance from the forklift in front and the forklift must be controlled in time. Sudden stops are not allowed in dangerous or obstructed locations (except in the event of an accident) .

Driving uphill or downhill: When driving uphill or downhill, you must follow the prescribed route. The road surface must be kept clean and non-slip, and the forklift must have technical performance, be safe and reliable. When driving uphill or downhill, you must not turn, drive diagonally or park the forklift in the middle. When driving downhill, you must slow down and be ready to brake at any time.

The conditions required for handling goods: The operator must carefully check the goods to ensure that there is no danger. Before starting to move , the goods must be carefully secured. If there is a risk of the goods tipping over or falling during the handling process, appropriate protective devices (such as guardrails) must be installed.



3.4.1. Brake

—Emergency braking

Pressing the emergency stop switch will interrupt all electrical functions.

—Forced braking

Forced braking occurs when the joystick is released and the joystick automatically moves to the upper braking area (B); or forced braking can be achieved by pressing the joystick to the bottom lower braking area (B).

Note: If the joystick moves slowly into the braking position, the cause must be found and corrected. If necessary, replace the gas spring!

—Regenerative braking

Release the driving switch, the driving switch will automatically return to the initial position (speed is 0), the truck starts to decelerate in the regenerative braking state, when the deceleration reaches $<1\text{Km/h}$, the brake starts to work and stops the motor. (The working principle of the brake is: the circuit is disconnected to brake, and connected to release)

Note: Release the travel switch. If the travel switch cannot return to the initial position quickly or returns very slowly, find the cause and eliminate the fault. If necessary, replace the travel switch or the operating handle.

—Reverse braking

During driving, the travel switch can be switched to the opposite direction, and the forklift will be braked by reverse current until the forklift starts to drive in the opposite direction.

Note: When the situation is dangerous, you can put the joystick in the braking position to use forced braking, or use reverse braking. The specific method to be used will be determined based on the actual situation.

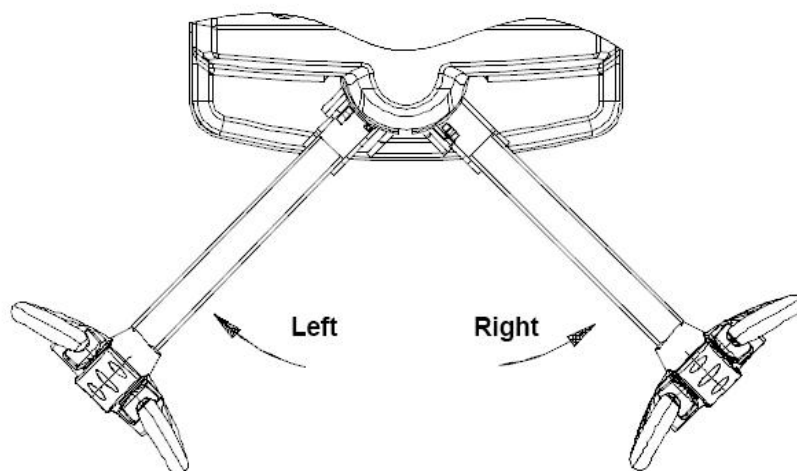
3.4.2. Driving

- Move the joystick to the driving position (F).
- Adjust the travel accelerator to the desired direction of travel (forward or reverse) .
- When the safety arm is not pulled up, the forklift can only travel at a lower speed.
- Before accelerating the forklift, make sure all flaps on the truck are closed and locked.
- When the forklift passes through a swing door or similar area, be careful not to let the door leaf touch the anti-collision protection button.

—Driving on a slope

When carrying cargo uphill, you must keep moving forward, and when carrying cargo downhill, you should move in reverse.

Steering Turn the joystick left or right in the desired direction



—Picking and storing goods

Note: Before picking up the goods, the operator must ensure that the goods have been stacked correctly and the weight does not exceed the rated load of the forklift. Long goods must not be picked up horizontally.

—promote

Operate the lifting handle until the desired lifting height is reached and release the handle .

Note: When the load-carrying component reaches the end stop, release the raising handle immediately.

Operate the lowering handle until the load carrier reaches the bottom and release the handle.

—Park your forklift safely

Note: The truck must always be parked securely. Never park the truck on a slope. The load handler must be fully lowered.

- Operate the lowering handle to lower the load-bearing unit.
- Turn the switch key to the left to the stop position and remove the key.
- Press the emergency stop switch.

3.5. Component Description:

Exploded view of the assembly of a 2.5 T walking truck

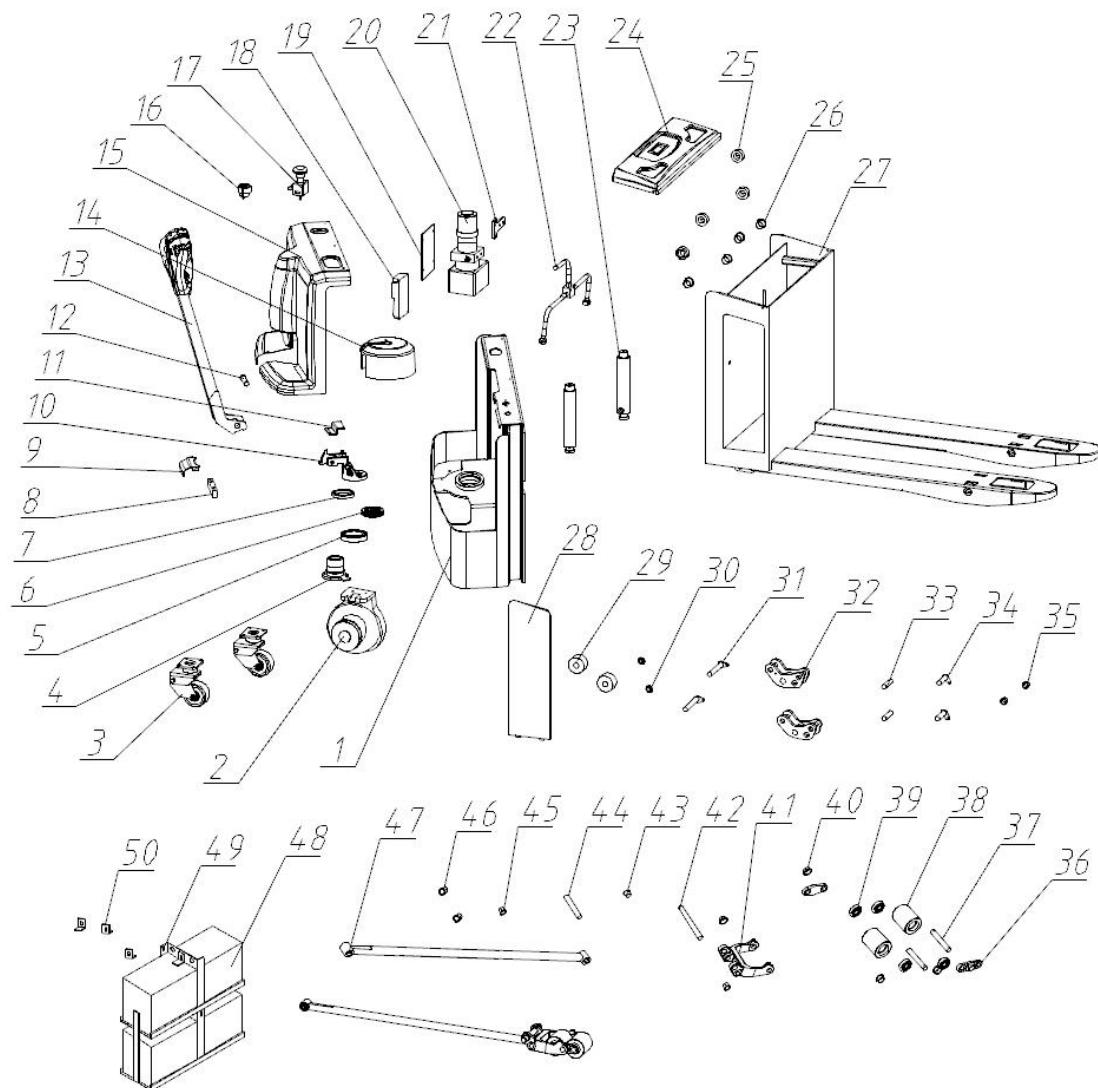


Table of 2.5T walkie model truck

NO.	Code	Name	QTY	Remark
2-1	210 4 0 000 0 4	Body components	1	
2-2		Drive wheel assembly	1	
2-3		Balance wheel	2	
2-4		Drive axle	1	
2- 5		6014 deep groove ball bearing	1	
2- 6		51113 thrust ball bearing	1	
2- 7		61913 deep groove ball bearing	1	
2- 8		Front cover lower fixing plate	1	
2- 9		Front cover fixed cover	1	

2-1 0		Steering handle bracket	1	
2-1 1		Round cover fixing plate	1	
2-1 2		Handle shaft	1	
2-1 3		handle	1	
2-1 4		Round cover	1	
2- 15		Hood	1	
2-16		Power meter	1	
2-17		Emergency stop switch	1	
2-18		Controller	1	
2-19		Controller mounting plate	1	
2-20		Oil Pump	1	
2-21		Oil pump fixing plate	1	
2-22		Oil circuit components	1	
2-23		Cylinder	2	
2-24		Battery box cover assembly	1	
2-25		Guide rail roller	4	
2-26		Oil-free bearings	4	
2-27		Fork foot assembly	1	
2-28		Battery compartment door	1	
2-29	219 40 0 12 06	Lifting wheel bracket roller	2	
2-30		Oil-free bearings	2	
2-31	219 40 0 12 0 3	Lifting frame roller shaft	2	
2-32		Lifting frame	2	
2-33		Lifting frame tie rod shaft	2	
2-34		Lifting frame shaft	2	
2-35		Oil-free bearings	2	
2-36		Front wheel clip	4	
2-37		Front axle	4	
2-38		Front wheel	4	
2-39		Front wheel bearing	8	
2-40		Oil-free bearings	4	
2-41		Front wheel bracket	2	
2-42		Front wheel support shaft	2	
2-43		Oil-free bearings	4	
2-44		Front wheel tie rod shaft	2	
2-45		Oil-free bearings	4	
2-46		Oil-free bearings	4	
2-47		Tie rod	2	
2-48		Battery	4	
2-49		Battery rack	1	
2-50		Battery pressing	4	

Operating elements:

Serial number	Element	Function
1	Emergency reverse button	When this safety feature is enabled, the truck will be forced to reverse within 3 seconds and then stop until the accelerator is reset briefly.
2	Driving accelerator	Controlling the speed of forklifts
3	Horn button	Sending warning signals
4	joystick	Rotate the joystick left or right to change direction Rotate the joystick up and down to brake and drive the truck
5	Fork lowering/raising button	Fork lift and lower
6	Power meter	Display current battery level and usage time
7	Key switch	Control power on and off
8	Emergency stop switch	The circuit is interrupted, all electrical functions stop and the forklift is braked.
9	Limit switch	Prevent the fork from rising further after reaching the standard height

- If the battery is low, please charge it before use. Do not use it when the battery is too low to avoid battery damage.
- Forklifts can only be driven on hard roads with a slope of less than 2.5%. Please avoid working on oily surfaces to prevent slipping.
- When the forklift is loading or unloading goods, it should keep a certain distance from the surrounding personnel, and be especially careful when the goods are too high or too heavy.
- Please load strictly according to the load curve and do not overload to avoid mechanical damage or casualties.
- The forks should be at the lowest position during driving, and the goods should not be lifted at the same time. The truck should slow down when turning on flat ground and going up or down a slope. It is forbidden to turn around or turn on a slope to avoid danger.
- After use, the forks should be placed in the lowest position, the forklift should not be placed on a slope, and the power should be turned off, Take away the key.

4. Use and maintenance of batteries and chargers

The truck must be parked before any work is done on the battery.

Safe operation regulations for using acid batteries:

- Battery charging, maintenance and replacement can only be performed by specially trained technicians. During operation, these operating instructions and the relevant regulations of the battery and battery charging station manufacturers must be strictly followed.
- Do not smoke or use open flames around batteries. Do not place flammable materials or work equipment that may produce sparks within a range of at least 2 meters around the forklift that

needs to be charged. The work area must have good ventilation conditions. Fire extinguishing equipment must be prepared.

- The battery cover must be kept dry and clean. The terminal and cable lugs must be kept tight, clean, and smeared with a small amount of special grease. If the battery electrodes are not insulated, they must be covered with a non-slip insulating pad.
- Do not place metal or conductive objects on the battery to avoid short circuit.
- Before closing the battery cover, make sure that the battery cables are not damaged.
- The acid in the battery is toxic and corrosive. Therefore, you must wear protective clothing and protective glasses before any operation on the battery. Absolutely avoid direct contact with battery acid. If battery acid accidentally gets on clothing, skin, or enters the eyes, you must immediately rinse the contact area with plenty of water. If there is contact with the skin or eyes, please see a doctor in time. The spilled battery acid must be neutralized immediately.
- Batteries can only be used when the battery box is closed.
- Battery weight and size have a great impact on the operating safety of the forklift. Replacement of battery equipment must be approved by our company in advance.

4.1 Use of charger

The charger used in this forklift has excellent constant current characteristics and extremely fast over-current protection capabilities, and can automatically stabilize the output current when the voltage fluctuates.

The floating charging device effectively prevents overcharging. Regardless of whether there is a significant temperature change in the battery during charging, the electrolyte will not become turbid, thus extending the service life.

4.2 Battery Charging

- Park your forklift according to regulations.
- Remove the battery cover and unplug the battery.
- Connect the charger plug to the battery power plug and turn on the charger to charge the battery.
- After charging is completed, turn off the charger power first, unplug the charger plug, and then plug the battery power socket into the truck body plug.

Notice:

- Maintain good ventilation during charging and prohibit smoking or using open flames.
- Before starting charging, check all cable connections and plug connections for obvious damage.
- After charging, the battery should be maintained, the acid level inside the battery should be checked, and attention should be paid to whether the battery acid consumption exceeds the normal value.

- Use a hydrometer to measure the specific gravity of the electrolyte, and adjust the ratio of acid and distilled water in time with changes in temperature.
- It is strictly forbidden to add water to the battery.
- Before connecting or disconnecting the charger, make sure that the charger is connected to the circuit.
- The relevant safety regulations of the battery and charging station manufacturers must be strictly observed.

4.3 Replace the battery:

To replace the battery, follow these steps:

- Park the forklift according to regulations;
- Remove the battery cover, rotate the rubber handle cover out and remove it, then use a Phillips screwdriver to remove the screws of the outer cover, and remove the outer cover at the same time. After removing the outer cover, you can see that there are two M8 screws and M8 nuts at the back fixing the battery. At this time, you need to use an external hexagonal wrench and an internal hexagonal wrench to remove it;
- Unplug the plug and put the battery cable away, making sure it does not get cut with other parts when removing the battery;
- Open the right door of the battery box, pull out the battery and replace it;
- Install the batteries in reverse order, paying attention to the correct battery position and wiring. Position the battery cables so they will not be cut when inserted into the battery.

Notice:

- The battery is heavy, please be careful when carrying it.
- The forklift must be parked horizontally. To avoid short circuit, the exposed electrodes or connectors on the battery must be covered with a rubber insulating pad.
- If you use a lifting tool to transport the battery, make sure the lifting tool has enough load capacity. The pulling force of the lifting tool must be vertical. It is absolutely forbidden to let the hook of the lifting tool fall on the surface of the battery.

5. Maintenance Guide

5.1 Operational safety and environmental protection

All inspection and maintenance operations must be performed as described in the "Maintenance and Inspection" chapter.

It is forbidden to modify the forklift truck, especially its safety devices. The working speed of the forklift truck must not be changed.

Only original spare parts meet our quality management requirements. In order to ensure stable and reliable operation of the equipment, only original spare parts produced by our company can

be used. Aging parts and replaced liquid media must be handled in accordance with current environmental protection regulations. If you need to change the hydraulic oil, please contact our after-sales service department.

After inspection and maintenance work has been completed, the operating steps specified in the "Re-commissioning" section must be carried out.

5.2 Safety regulations for repair and maintenance

Maintenance personnel: Forklift maintenance and repair can only be carried out by our professional technicians. Our service department has a group of technicians responsible for field work. These personnel have received special training and are competent for various maintenance operations of the equipment. We recommend that users sign a maintenance contract with our service and repair center.

Lifting and jacking up the equipment: When lifting the forklift, only install the lifting tools in the specified fixed position. When jacking up the forklift, you must use suitable tools, such as wedges, wooden blocks, etc. to fix the equipment to prevent the risk of accidental rolling or tipping.

Cleaning operations: Do not use flammable liquids to clean the truck. Before starting the cleaning operation, all necessary safety measures must be taken to prevent sparks (such as short circuits) during the operation. If the truck is powered by a battery, the battery plug must be unplugged. When cleaning electrical and electronic components, low-intensity suction gas or compressed air should be used, and non-conductive, anti-static brushes should be used to clean dust from the surface of the components.

If the truck is cleaned with water or a high-pressure cleaner, all electrical and electronic components must be covered beforehand, as otherwise the components could be exposed to moisture and malfunction. Steam cleaning equipment must not be used.

After cleaning, the steps specified in the "Re-commissioning" section must be carried out.

Operations on the electrical system: Operations related to the electrical system must be performed by professionals who have received electrical technical training. Before starting the operation, the operator must take all necessary measures to prevent electrical accidents. If the forklift is powered by a battery, the battery plug must also be unplugged to remove the voltage from the forklift.

Welding operation: Before welding operation begins, the electrical and electronic components on the forklift must be removed to prevent these components from being accidentally damaged during operation .

Specified parameters: When repairing and replacing hydraulic, electrical and electronic components, you must pay attention to the specified parameters related to the forklift.

Forklift wheels: The quality of the wheels directly affects the stability and driving performance of the equipment. If the factory-installed wheels need to be replaced, the original spare parts provided by our company must be used to meet the data indicators on the model list. When replacing the wheels, care must be taken to ensure that the position of the forklift does not tilt (for example, the left and right wheels should be replaced at the same time) .

High-pressure hoses in the hydraulic system: High-pressure hoses must be replaced after their service life has expired. If the hydraulic components are replaced, the high-pressure hoses in the hydraulic system should also be replaced.

5.3 Maintenance and inspection

Forklifts should undergo regular routine maintenance inspections to prevent fatigue and wear of parts and to detect potential hidden dangers in a timely manner before serious damage occurs.

The battery is the energy source of the forklift. It can provide sufficient electrical energy according to the corresponding instructions. The long-lasting battery endurance can keep the machine in good and optimal condition.

Daily Inspection

Check whether the battery is fully charged (you can also check the side of the battery).

Raise the fork to the top position to check whether the hydraulic oil in the hydraulic system is sufficient. If necessary, add YA-N32 hydraulic oil or similar hydraulic oil.

Weekly Inspection

Forklift users should spend a few minutes each week cleaning the machine, paying special attention to removing any entanglements such as silk, linen, and rags from the wheels and axles.

Half-year inspection

Lubricate the lifting chain and check the chain for wear.

Check and tighten any screws, nuts, and battery cable connections that may be loose.

Check the brush wear in the hydraulic pump motor and replace any brushes that may not meet the requirements.

5.4 Replace hydraulic oil

It is recommended to replace the hydraulic oil after one month of operation (or when the operation time reaches 200 hours). Even if the above operation time is not reached, the hydraulic oil should be replaced once a year. Please use YA-N32 hydraulic oil or similar oil. The hydraulic oil used should be filtered and clean, and keep sufficient amount. When the fork is lifted 2 to 3 times, the machine can work normally again after the excess air in the system is removed. If the lifting height of the fork does not reach the required height, the hydraulic oil should be added.

5.5 Reuse after maintenance

After cleaning or maintenance, the following operations must be performed before the forklift can be put back into operation:

- Check the functions of each part of the operating handle
- Check the function of the main switch
- Check the function of the brakes
- Lubricate the forklift according to the maintenance instructions

6. Transportation and storage

If the forklift truck is not used for more than 2 months, it must be stored in a frost-free, dry space. The operations that must be performed before, after and during storage are detailed in the following sections.

During storage, the forklift must be supported by a stand and all wheels must be off the ground. Only in this way can the wheels and wheel bearings be protected from damage during storage.

If the storage time exceeds 6 months, the user must contact our service department to clarify the need for other operational measures.

6.1 Precautions before storage:

- Place the forklift in a horizontal position to prevent hydraulic oil and electrolyte from spilling.
- Clean the forklift thoroughly.
- Check the brakes
- Check the hydraulic oil level. Add hydraulic oil as needed
- Apply a thin layer of lubricating oil or grease to all untreated mechanical parts.
- Lubricate the forklift according to the maintenance information.
- Charge the battery
- Remove the battery terminals, clean the battery, and apply special grease to the electrode bolts.

Please also observe the relevant operating instructions and regulations of the battery manufacturer.

Spray all exposed contact codes with a suitable contact spray.

6.2 Precautions during storage:

If the truck is battery powered:

The battery must be charged every month. Otherwise, when the battery automatically discharges to a certain extent, it will lead to insufficient battery power, causing battery sulfide and thus making the battery scrapped.

6.3 Reuse after storage:

- Clean the forklift thoroughly.
- Lubricate the truck according to the maintenance instructions.
- Clean the battery, apply professional grease on the electrode bolts, and install and fix the battery terminals.
- Charge the battery.
- Check the gear oil for condensed water. If necessary, replace the gear shaft.
- Check the hydraulic oil for condensed water. If necessary, replace the hydraulic oil.
- Put the forklift into service.

If the truck is battery powered:

If the switching operation of the electrical system becomes difficult, the exposed contact surface

should be sprayed with contact spray and the oxide layer on the contact surface of the operating element should be removed by repeatedly performing the switching operation.

After the forklift is put into use, the driver should immediately test the braking performance repeatedly.

6.4 Perform safety inspections on forklifts regularly or when abnormal situations occur

Security inspections are carried out in accordance with the relevant national regulations. Our company provides trained professionals who can provide customers with thoughtful security inspection services.

Forklifts must be inspected by professionals at least once a year (pay attention to the regulations of each country) or after an abnormal situation occurs. The inspectors must objectively and accurately identify and evaluate the performance and status of the equipment based on operational safety. The inspectors must have sufficient professional knowledge and work experience, and be able to judge the status of the equipment and the normal performance of the protective devices according to the current technical regulations and forklift inspection standards.

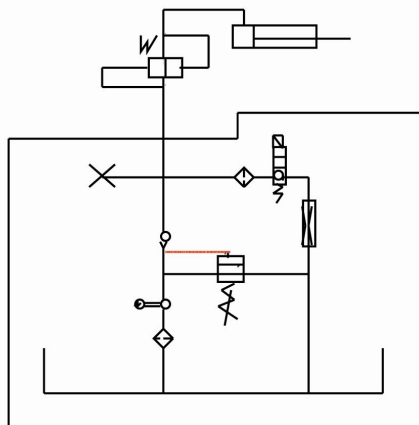
A comprehensive inspection must be conducted specifically for the safety and technical performance of the forklift in the event of an accident. In addition, the forklift must be thoroughly inspected for damage caused by improper use. The inspector must carefully record the inspection process and related data. The inspection results must be kept at least until the next inspection operation. The equipment user must take necessary measures to promptly resolve any problems found.

6.5 Equipment scrapping and waste disposal methods

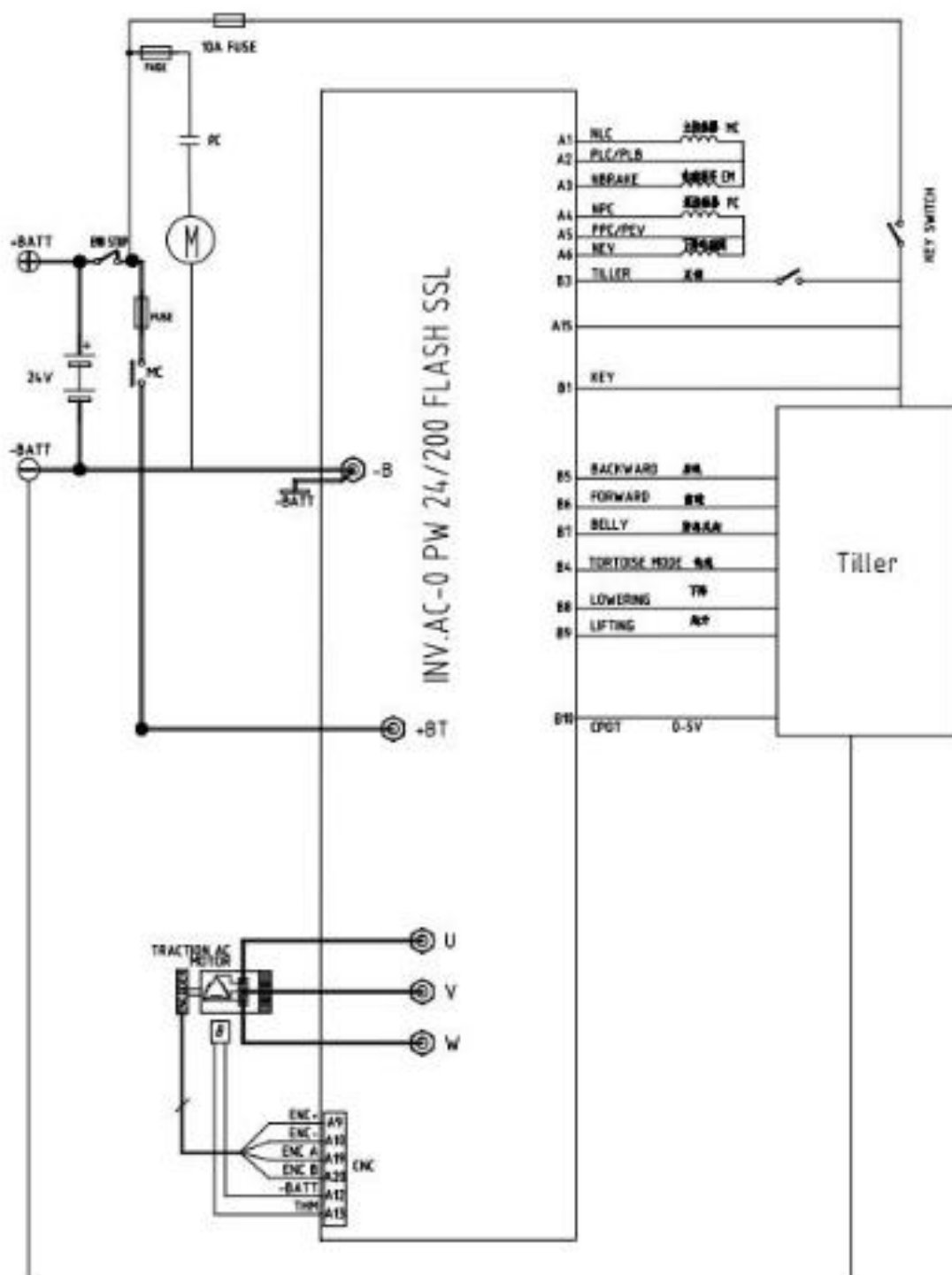
When a forklift is finally scrapped and disposed of, it must be done in accordance with the current laws and regulations of our country.

Special attention should also be paid to regulations regarding the disposal of waste batteries, fuel, and electronic and electrical equipment, as well as local environmental protection regulations.

7. Hydraulic schematic diagram



8. Electrical schematics



9. Common faults and solutions

Fault phenomenon	Cause	Treatment
Turn on the switch, power indicator The lights are not on.	Loose terminal	Check the battery terminals and tighten all the screws on the connections.
	Poor switch contact	Check the switch connection and replace it if damaged.
The speed is uneven during lifting. Crawl	There may be air in the lift cylinder	Lift and lower the fork two or three times to exhaust the air in the cylinder.
Lift cylinder not working	Insufficient hydraulic oil	Add an appropriate amount of filtered hydraulic oil
	The battery is low	Charging the battery
	Hydraulic oil leakage	Check and repair, replace seals, and tighten screws at oil pipe connections.
	overload	The lifting load cannot exceed the specified value
The contactor works but the motor does not work	The main circuit fuse is blown	Check and replace the fuse
	Contactor main contacts burnt out	Replace or repair contactor
	Motor failure	Replace or repair the motor
No braking or insensitive braking	Brakes are severely worn or damaged	Readjust the brake clearance or replace the brake
	The micro switch at the handlebar does not work or is damaged	Adjust or replace the micro switch
The driving wheel speed is reduced or the motor is overloaded	Brake coil burnt out	Replace brake coil
	The battery voltage is too low or the resistance at the connector is too large	Check voltage under load and clean connectors
	Improper adjustment of the motor brake causes the motor to run with brakes	Adjusting the brake clearance
	Drive wheel gearbox gear is damaged	Replacement of gears
During the lifting process, the truck makes unusual sounds	Insufficient hydraulic oil	Add sufficient hydraulic oil.
	Hydraulic oil is not clean	Replace the hydraulic oil.
	Due to loose motor and housing Cause friction	Tighten the screws
	The surrounding environment is too humid	Ensure the ambient humidity is $\leq 90\%$

10. Table of wearing parts

Serial number	Name	Use area	Model Specifications	Quantity	Remark
1	Electric lock key	Open electric lock		2	
2	Charging plugs and sockets	With charger		1 set	
3	fuse	Electrical Parts	10A	1	
4	fuse	Electrical Parts	200 A	1	
5	Sealing ring	Cylinder	U HS 35×45×6	1	
6	Dust seal	Cylinder	DH 35×43×6	1	
7	Support ring	Cylinder	F4 guide belt 35×2.5×8	2	

Note: Wearing parts are not under warranty, but the whole machine is under warranty for 12 months or 1200 hours (whichever comes first) .

DECLARATION OF CONFORMITY (valid, if sold within the EU)

[GB] CE Declaration of Conformity

The signatory hereby declares that the industrial truck described below in detail complies with the European Directive 2006/42/EC (Machinery Directive) including amendments as well as the legislative decree to incorporate the directives in national law. The signatory is individually authorized to compile the technical documents.

[D] EG-KONFORMITÄTSERKLÄRUNG

Der Unterzeichner bescheinigt hiermit, dass das im Einzelnen bezeichnete Flurförderzeug den Europäischen Richtlinien 2006/42/EG (Maschinenrichtlinie) einschließlich deren Änderungen sowie dem entsprechenden Rechtserlaß zur Umsetzung der Richtlinien in nationales Recht entspricht. Der Unterzeichner ist bevollmächtigt, die technischen Unterlagen zusammenzustellen.

[E] DECLARACIÓN DE CONFORMIDAD CE

El signatario certifico por medio de la presente que la carretilla industrial descrita en esta documentación cumple con la Directiva Europea 2006/42/CE (Directiva de máquinas), incluyendo sus respectivas modificaciones, así como con los Reales Decretos de transposición de la directiva al derecho nacional. El signatario dispone de una autorización individual que le permite compilar la documentación técnica.

[F] DECLARATION DE CONFORMITE CE

Les signataires certifient par la présente que les chariots désignés individuellement satisfont aux directives européennes 2006/42/CE (directive machine), y compris leurs modifications ainsi que les décrets légaux concernant la mise en oeuvre des directives dans le droit national. Les signataires sont respectivement et individuellement autorisés à regrouper les documents techniques.

[NL] EG-CONFORMITEITSVERKLARING

De ondertekenaars verklaren hiermee, dat de hieronder genoemde interne transportmiddelen voldoen aan de Europese richtlijnen 2006/42/EG (Machinerichtlijn), inclusief de wijzigingen en wetgeving voor de omzetting van de richtlijnen in nationaal recht. Ondergetekenden zijn ieder individueel gemachtigd het technisch dossier samen te stellen.

[P] DECLARAÇÃO DE CONFORMIDADE CE

Os signatários vêm por este meio certificar que os veículos industriais descritos em pormenor cumprem as directivas europeias 2006/42/CE (directiva relativa a máquinas) incluindo as suas alterações e o respectivo documento legal com vista ao cumprimento das directivas no enquadramento legal nacional. Os signatários estão individualmente autorizados a compilar os documentos técnicos.

[I] DICHIARAZIONE DI CONFORMITÀ CE

Con la presente i firmatari attestano che il veicolo per movimentazione interna è conforme alla direttiva europea 2006/42/CE (Direttiva Macchine), comprese le relative modifiche, nonché al documento legale per la trasposizione di tali direttive nel diritto nazionale. I sottoscritti sono singolarmente autorizzati alla creazione della documentazione tecnica.

[BG] ЕВРОПЕЙСКА ОБЩНОСТ - ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

С настоящото подписаните удостоверяват, че специфицираното тук моторно подемно-транспортно средство отговаря на Европейските директиви 2006/42/ЕО (Директива за машините), включително на техните изменения, както и на съответното постановление за прилагане на директивите в националното право. Подписаните са съответно упълномощени поотделно да съставят техническата документация.

[CZ] EG - PROHLÁŠENÍ O SHODĚ

Niže podepsaní tímto potvrzují, že podrobný popis vozidla s motorovým pohonem odpovídá Evropským směrnici 2006/42/EC (směrnice pro strojní zařízení) včetně jejich pozdějších úprav, jakož i příslušným právním výnosům pro uplatnění příslušné směrnice v rámci národního práva. Každý z podepsaných je jednotlivě zplnomocněn k vytvoření technických podkladů.

[DK] EF-OVERENSSTEMMELSESESKLÆRING

Undertegnede erklærer hermed, at følgende truck overholder de væsentligste krav i Rådets direktiv 2006/42/EF (Maskindirektivet) om indbyrdes tilnærmelse af medlemsstaternes lovgivning. Alle undertegnede har fuldmagt til selvstændigt at sammensætte det tekniske materiale.

[EST] EL vastavusavaldus

Настоящим лица, подписавшие документ, удостоверяют, что напольное подъёмно-транспортное средство с силовым приводом в указанной спецификации соответствует Европейским директивам 2006/42/EG (Директива по машинам), включая изменения в них, а также соответствующему правовому документу по трансформации директив в национальное право. Каждое по отдельности лицо, подписавшее документ, имеет полномочия для составления технической документации.

[FIN] EU-YHDENMUKAISUUSSELOSTUS

Allekirjoittavat todistavat täten, että yksilöity moottoriajoneuvo vastaa eurooppalaista direktiiviä 2006/42/EY (konedirektiivi) kaikkine muutoksineen sekä säädöksiä, jolla direktiivi on saatettu osaksi kansallista lainsäädäntöä. Allekirjoittajilla on kullakin erikseen valtuudet laatia teknisiä dokumentteja.

[GR] ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΟΚ

Οι υπογράφοντες βεβαιώνουν διά της παρούσης ότι ο λεπτομερώς περιγραφόμενος μηχανοκίνητος φορέας διαδρόμου συμμορφώνεται προς την Κοινοτική Οδηγία 2006/42/ΕΚ («Μηχανές»), συμπεριλαμβανομένων των τροποποιήσεων, καθώς και των νομοθετικών διαταγμάτων για τη μεταφορά Οδηγιών στην εθνική νομοθεσία. Οι υπογράφοντες είναι σε κάθε περίπτωση εξουσιοδοτημένοι ατομικά να καταρτίσουν τα τεχνικά έγγραφα.

[H] EU KONFORMITÁSI NYILATKOZAT

Alulírottak ezennel igazolják, hogy a részletesen leírt, gépi meghajtású önjáró targonca megfelel a 2006/42/EK (Gép Irányelv) Európai Irányelveknek, beleértve azok módosításait, valamint az irányelvek nemzeti jogba történő átültetésére irányuló, megfelelő jogi rendelkezést. Továbbá az alulírottak mindegyike rendelkezik meghatalmazással arra nézve, hogy összeállíthatja a műszaki dokumentációt.

[LT] ES atitikimø deklaracija

Žemiau pasirašę asmenys patvirtina, kad atskirai aprašytas elektra varomas pramoninis vežimėlis atitinka Europos Sąjungos direktyvą 2006/42/EB (Mašinų direktyva), įskaitant ir jos pakeitimus bei tai atitinkantį teisės aktą dėl direktyvų įgyvendinimo nacionaliniuose teisės aktuose. Pasirašę asmenys yra atskirai atitinkamai įgalioti sudaryti techninius dokumentus.

[LV] ES atbilstības deklarācija

Ar šo zemāk parakstījušās personas apliecina, ka detalizēti aprakstītais mehāniskās piedziņas iekārtvējs atbilst Eiropas Savienības direktīvām 2006/42/EK (Mašīnu direktīva), ieskaitot to izmaiņas, kā arī atbilstošo tiesisko rīkojumu direktīvu pielāgošanai nacionālajai likumdošanai. Parakstījušās personas ir atsevišķi pilnvarotas sastādīt tehniskās dokumentācijas.dokumentācijas.

[IN] EU-KONFORMITETSERKLÆRING

Undertegnede bekrefter hermed at de enkelte betegnede gaffeltruckene med kraftdrift overensstemmer med de europeiske retningslinjene 2006/42/EC (masinretningslinje) med endringer, samt den tilsvarende rettsforordning til implementering i nasjonal lovgivning. De undertegnede er hver for seg bemyndiget til å sammenstille de tekniske dokumentene.

[PL] DEKLARACJA ZGODNOŚCI Z NORMAMI UE

Sygnatariusze potwierdzają niniejszym, że wyszczególniony wózek jezdniowy z napędem odpowiada dyrektywie europejskiej 2006/42/WE (Dyrektywa maszynowa) wraz ze zmianami oraz rozporządzeniem prawnym dotyczącym wdrożenia dyrektywy do prawa krajowego. Każdy z sygnatariuszy jest upoważniony do samodzielnego zestawienia dokumentacji technicznej.

[RO] DECLARAȚIE DE CONFORMITATE CE

Subsemnatii adeveresc prin prezenta că utilajul de transport uzinal cu motor, descris individual, corespunde directivelor europene 2006/42/CE (Directiva privind mașinile) inclusiv modificărilor lor, precum și actului legislativ corespunzător prentu transpunerea directivelor în dreptul național. Semnatarii sunt împuterniciți individual să redacteze documentația tehnică.

[RUS] Декларация соответствия стандартам ЕС

Настоящим лица, подписавшие документ, удостоверяют, что напольное подъёмно-транспортное средство с силовым приводом в указанной спецификации соответствует Европейским директивам 2006/42/EG (Директива по машинам), включая изменения в них, а также соответствующему правовому документу по трансформации директив в национальное право. Каждое по отдельности лицо, подписавшее документ, имеет полномочия для составления технической документации.

[S] EG-KONFORMITETSFÖRKLARING

Undertecknad intygar härmed att den specificerade trucken är tillverkad i överensstämmelse med de Europeiska direktiven 2006/42/EG (Maskindirektivet), inklusive ändringarna i dessa och motsvarande harmoniseringar i nationell rätt. Undertecknade är var och en för sig berättigad att sammanställa de tekniska dokumenten.

[SK] vyhlásenie o zhode

Podpísané osoby týmto potvrdzujú, že podrobne popísaný mechanicky poháňaný pozemný dopravník zodpovedá európskym smerniciam 2006/42/ES (smernica o strojných zariadeniach) vrátane ich zmien, ako aj príslušnému právnomu výnosu na uplatnenie smerníc v národnom práve. Podpísané osoby sú vždy jednotlivo splnomocnené na zostavovanie technickej dokumentácie.

[SLO] EU IZJAVA O SKLADNOSTI

Podpisani potrjujemo, da podrobno opisano gnano vozilo za talni transport ustreza Evropski direktivi 2006/42/ES (Direktiva o strojih), vključno z njenimi spremembami in ustrezno pravno uredbo za izvajanje direktiv v nacionalno zakonodajo. Podpisniki so posamično pooblašteni za sestavljanje tehnične dokumentacije.

[TR] AB Uygunluk Açıklaması

İmza sahipleri bu yazı ile, belirtilen kuvvet tahrikli istif aracının Avrupa Yönetmeliklerine 2006/42/EG (Makine Yönetmeliği), bunun getirdiği değişikliklere ve yasal yönetmeliklerin ulusal yasaya göre değişmesi için olan yasal genelgeye uygun olduğunu onaylamaktadırlar. Her bir imza sahibi teknik belgeleri oluşturma konusunda yetkilidir.

- (1) Type/ Typ/ Tipo/ Modello/ Tyypit/ Tipo / ΣΤΠΟ/ Τίπος/ Tip/ Тип/ Tips/ Tipas/ Tüüp:
- (2) Serial No./ Serien-Nr./ N°. de série/ Seriennummer/ N° de serie/ Numero di serie/ Serienr./ Sarjanro/ APIOMO EIPA/ Seriové číslo/ Szériaszám/ Nr. Seryjny/ Serijska številka/ Výrobné číslo/ Серийный номер/ Seri No./ Seerianr./ Sērijas Nr./ Serijos numeris:
- (3) Year of constr./ Baujahr/ Année de constr./ Bouwjaar/ Año de constr./ Anno di costruzione/ Produktionsår/ Byggeår/ Tillverkningsår/ Valmistusvuosi / Ano de fabrico / ΕΣΟ ΚΑΣΑ ΚΕΤΗ/ Rok výroby/ Gyártási év/ Rokprodukcji / Letnik / Год изготовления / Üretim yılı / Väljalaskeasta / Izgatavošanas gads / Gamybosmetai
- (4) Manufacturer or his authorized representative in Community/ Hersteller oder in der Gemeinschaft ansässiger Vertreter/ Fabricant ou son mandataire établi dans la Communauté/ Fabrikant of zijn in de Gemeenschap gevestigde gemachtigde/ Fabricante o representante establecido en la Comunidad/ Construtor ou Representante estabelecido na Comunidade/ Costruttore oppure il suo rappresentante nella Comunità/ Fabrikant eller dennesi Fællesskabet etablerede befuldmægtigede/ Producent eller agent innen felleskapet/ Tillverkare eller representant inom EU/ Valmistaja tai yhteisömaassa oleva edustaja / V'robce nebo jeho zastoupení/ Gyártó / producent albo jego przedstawiciel w EG (Wspólnota Europejska)/ Κατασκευαστής ή όκηνο ήνπιθώλ αληηπξνζώπος/ Üretici ya da Bölgedeki Yetkili Temsilci/ Proizvajalec ali pooblašteni zastopnik s sedežem v EU/ Výrobca alebo zástupca so stálym bydliskom v EÚ / Изготовитель или его представитель, зарегистрированный в стране Содружества/ Tootja või organisatsioonis paiknev esindaja/ Ražotājs vai vietējais uzņēmuma pārstāvis / Gamintojas arba šalyje reziduojantis atstovas:
- (5) Date/ Datum/ Data/ Fecha/ datum/ Dato/ päiväys/ Kuupäev/ Datums/ / Datum/ dátum/ tarih/
- (6) Authorised signatory/ Im Auftrag/ pour ordre/ Incaricato/ Por orden de/ por procuração/ op last van/ på vegne af/ på uppdrag/ Etter oppdrag/ psta./ Ülesandel / pavedus / v.i. / По поручению / megbízásából / длжносно лице / z pověření / z poverenia / po nalogu / na polecenie / din sarcina / adina / θαη έληνιή

If you can read this text:

- Your truck might be sold outside the EU; this declaration is then not valid.
 - Or the declaration is not complete.
- In this case please ask for a copy