



CD-1501LS

Model 05 Pallet Stacker Operation Manual



Warning

You must read the operating instructions in this manual before use.



Notice

- Please check the last page of this document and the nameplate for all current product type markings.
- Keep the item safe for further use.



Anhui Yangzi Intelligent Manufacturing Co.,Ltd.



CONTACT US

Mobile / Whatsapp : +86 19966157838

E-mail : info@yangziindustry.com

Perface

Before operating this electric stacker, please read this operation manual carefully and fully understand the correct usage of the truck. Improper operation may lead to potential hazards.

This manual describes the operation methods for various types of electric stackers. Please make sure that the manual matches the model of the stacker used in your company during operation and maintenance.

Keep this manual properly for future reference. If this manual or any warning labels are damaged or lost, please contact your local dealer for a replacement.

This stacker complies with the requirements of EN ISO 3691-1(Industrial truck-Safety requirements and verification, Part 1), EN 12895(Industrial trucks-Electromagnetic compatibility). EN12053(Safety of industrial trucks- Test methods for measuring noise emissions) and EN 1175-1(Safety of industrial trucks- Electrical requirements), provided the truck is used for its intended purpose.

Notice:

Hazardous waste harmful to the environment, such as waste batteries, waste oil and electronic waste, may cause adverse impacts on the ecological environment and human health if improperly disposed of.

- . Waste packaging shall be sorted by material and placed into solid waste containers, to be collected and disposed of by local professional environmental protection authorities. Littering is prohibited to prevent pollution.
- . To avoid oil leakage during product use, the user shall prepare absorbent materials (such as waste wood chips or dry rags) to absorb leaked oil in a timely manner. To prevent secondary environmental pollution, used absorbent materials shall be submitted to designated departments in accordance with local regulations.
- . Our products are under continuous improvement. This manual is compiled only for the operation and maintenance of the stacker, and does not guarantee specific additional functions. Your understanding is appreciated.

Note:

Within this manual, the symbol on the left indicates warning and hazardous situations that may result in death or serious injury if not followed.

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Proper Application

This electric stacker may only be used in accordance with this instruction manual.

The stacker described in this manual is a pedestrian electric stacker with electrically controlled lifting and lowering functions. It is designed for lifting, lowering and transporting palletized loads to the required lifting heights.

Improper use may result in personal injury or machine damage.

The operator and the operating company shall ensure proper use, and ensure that the stacker is operated only by trained and authorized personnel.

The stacker shall be used on firm, level, sound and suitable floor surfaces. It is intended for indoor use at an ambient temperature of +5°C to +40°C, for light-duty applications without crossing permanent obstacles or pits. Operation on ramps is prohibited. During operation, goods shall be placed approximately at the load center of the stacker.

It is strictly forbidden to lift or carry personnel. When transporting goods, the load must be lowered to a low lifting height (<300 mm).

The use of this truck on lift decks or loading ramps is prohibited.

The rated load is indicated on the load curve and nameplate. The operator must observe all warning labels and safety instructions. The operating illumination shall be at least 50 lux.

Modifications

Any alteration or modification that may affect the vehicle's rated load, stability or safe operation must obtain prior written approval from the original manufacturer, its authorized manufacturer or its successor. This includes modifications affecting braking, steering, visibility, and the addition of mobile attachments.

Once modifications are approved by the manufacturer or its successor, the load curve, labels, identification markings, operation and maintenance manuals shall be updated accordingly. Damage to the vehicle caused by failure to comply with these provisions shall void the warranty.

1.Vehicle Overview

a.Overview of Main Components

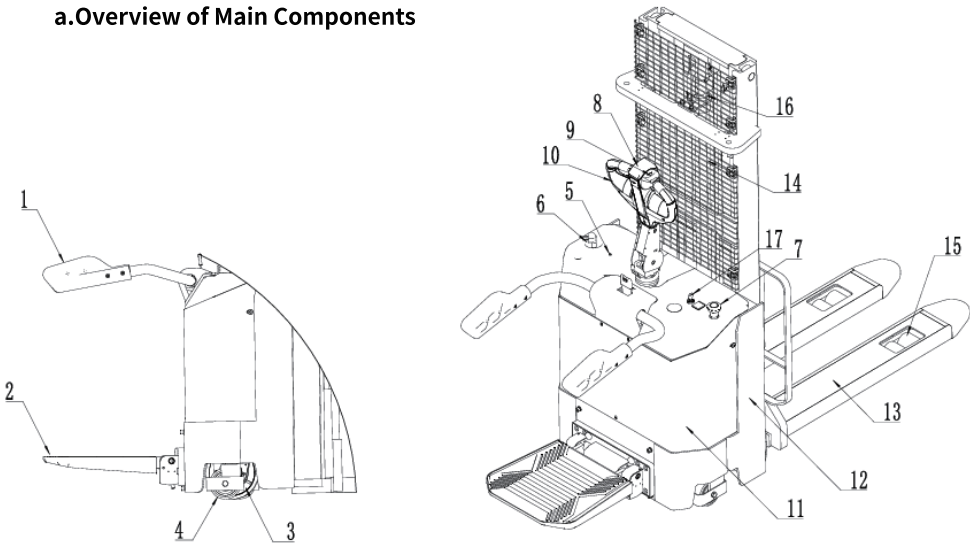


Figure.1:Overview of Main Components

1	Protection Arm	10	Multi-function Handle
2	Foot Pedal	11	Outer Cover Assembly
3	Drive Wheel	12	Main body
4	Steering Wheel	13	Pallet Fork Frame
5	Charging Indicator Light	14	Protective Mesh Guard
6	Coiled Charging Cable	15	Load Wheel
7	Emergency Stop Switch	16	Hydraulic System
8	Belly Safety Switch	17	Ignition Key
9	Accelerator(Butterfly Switch)	18	/

b.Main Technical Data

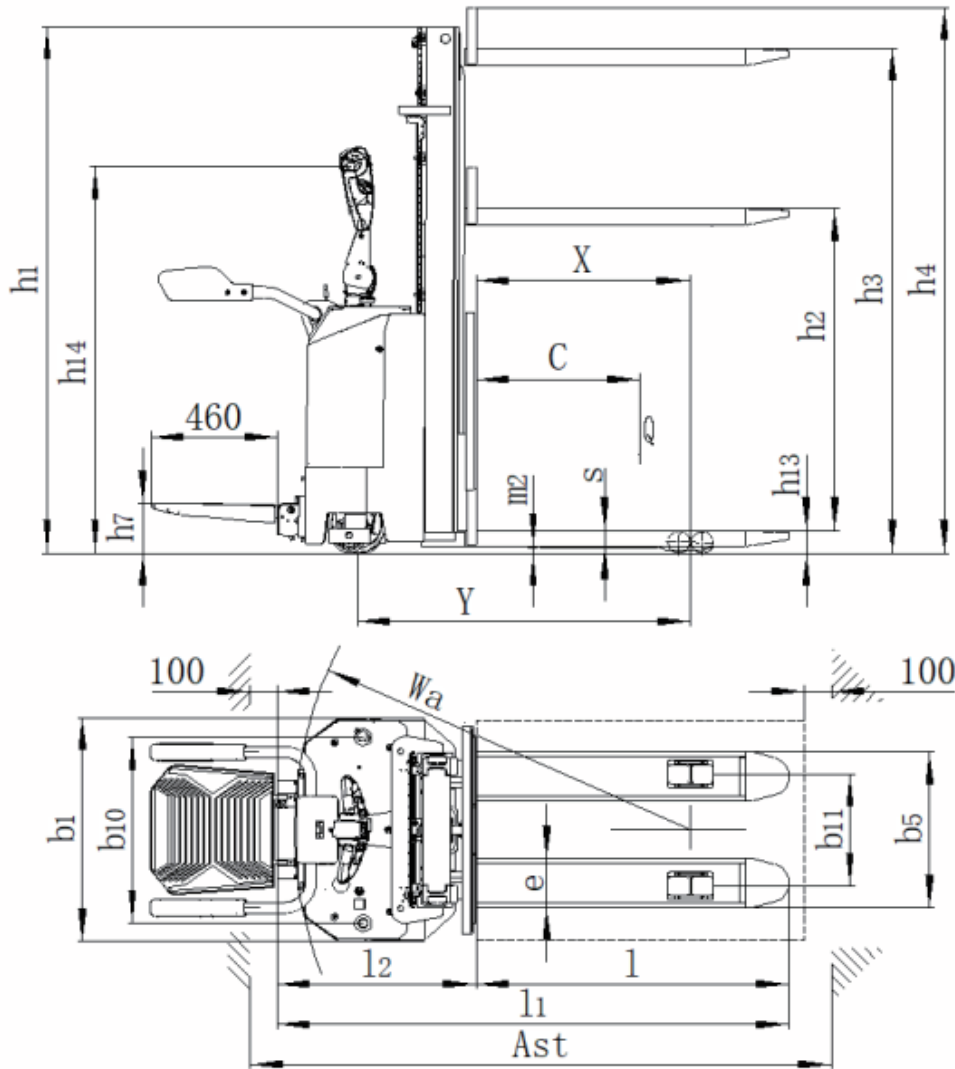


Figure 2 :Technical Parameters

Industrial Vehicle Specification Sheet in accordance with VDI 2198

特性	1.1	Mode	/	HSWS1501
	1.2	Power source(electric, diesel, LPG, electrical)	/	Electric
	1.3	Driving methods (walking, standing, seated, picking)	/	Pedestrian with standing platform
	1.4	Rated load carrying capacity	Q(kg)	1500
	1.5	Load center distance	C(mm)	500
	1.6	Front overhang	X(mm)	780
	1.7	Wheelbase	Y(mm)	1220
重量	2.1	Weight (including battery)	kg	712
	2.2	Fully loaded, the axle load is applied to the drive wheel side/load-bearing wheel side	kg	816/1396
	2.3	Unloaded axle load on drive wheel side/load-bearing wheel side	kg	538/174
车轮	3.1	tire	/	PU (Polyurethane)
	3.2	Front wheel size	Φ x w (mm)	Φ 213x70
	3.3	Rear wheel size	Φ x w (mm)	Φ 80x70
	3.4	Stabilizer wheel (size)	Φ x w (mm)	Φ 100x50
	3.5	Number of wheels (front/rear)	/	1x +2/4
	3.6	Wheelbase (front)	b10(mm)	690
	3.7	Wheelbase (Rear)	b11(mm)	410
尺寸	4.1	Gauge height when retracted	h1 (mm)	1932
	4.2	Free height gain	h2 (mm)	78
	4.3	Lift height	h3 (mm)	2900
	4.4	Maximum height of gantry during operation	h4 (mm)	3700
	4.5	Handle height at minimum/maximum drive position	h14mm	1200/1440
	4.6	Fork lowering height	h13mm	85
	4.7	Overall length	l1(mm)	1865
	4.8	Body length	l2(mm)	715
	4.9	overall width	b1(mm)	820
	4.10	Fork size	s/ e/ l(mm)	60/180/1150
	4.11	Distance between fork arms	b5 (mm)	570
	4.12	Minimum ground clearance	m2(mm)	27
	4.13	The aisle width is 1000*1200 mm	Ast (mm)	2330
	4.14	The aisle width is 800*1200 mm	Ast (mm)	2275
	4.15	Turning radius	Wa (mm)	1455
性能	5.1	Driving speed: Full load/Unloaded	km/h	4.0/4.3
	5.2	Speed increase (full load/no load)	m/s	0.090/0.129
	5.3	Descent speed full load/no load	m/s	0.140/0.086
	5.4	Maximum climbing ability (full load/no load)	%	5/10
	5.5	Driving brake	/	Electromagnetic braking
电机	6.1	Drive motor power	kW	0.75
	6.2	Increase motor power S3 7.5%	kW	2.2
	6.3	Battery voltage, rated capacity K5	V/Ah	2x 12/ 105
	6.4	Battery weight	kg	2x26
其他	7.1	Drive control method	/	DC speed control
	7.2	Driver's ear noise level	db(A)	≤75

Specification & Model		Height of Retracted Mast h1(mm)	Free Lift Height h2(mm)	Max. Mast Height in Operation h4(mm)	Max. Fork Height h3(mm)
Single Mast	1600	1980	1508	1985	1600
	2000	2380	1908	2385	2000
Double Mast	2600	1782	78	3039	2600
	2900	1932	78	3339	2900
	3200	2082	78	3639	3200
	3600	2282	78	4039	3600

c.Description of Safety Devices and Warning Labels

- A Hook Label
- B Warning Label: Do not stand under or on the forks.
- C Nameplate
- D Read and Follow Instructions Label
- E Arm Restriction Warning Label
- F No Riding Label
- G Refilling Label
- H LOG Mark
- I Load Curve Plate Label

The stacker is equipped with an emergency stop switch 7 (Figure 1), which can cut off all lifting, lowering and travelling functions and deactivate the electromagnetic brake. After checking the controller functions, pull up the switch to resume operation of the stacker. Before operation, insert the key 17 (Figure 1) and turn it clockwise. When the stacker is not in use, turn the key counterclockwise and remove it to prevent unauthorized operation. The stacker is fitted with a belly safety switch 8 (Figure 1). When the truck moves toward the operator, pressing the belly switch within the operating range of the handle will make the truck travel away from the operator. Always comply with the instructions shown on warning labels. Replace any damaged or missing labels in a timely manner.

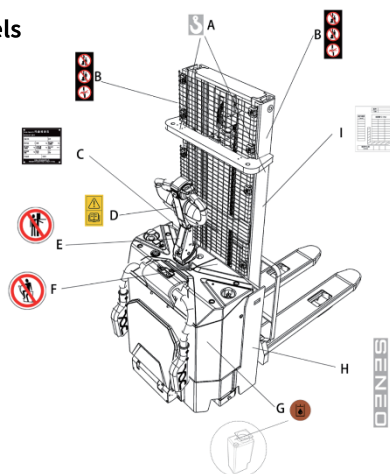


Figure.3: Safety Devices, Warning Labels

d.VIN Location

The vehicle identification number (VIN) is located on the main body of the truck.

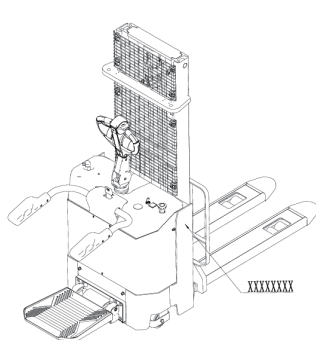


Figure.4: VIN Location

e.Nameplate

The nameplate is located on the left or right side of the vehicle main body.

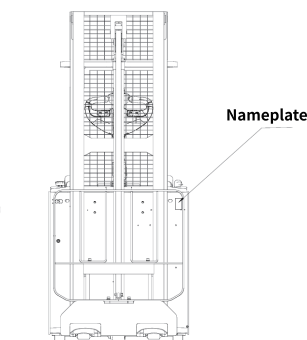


Figure 5 :Nameplate

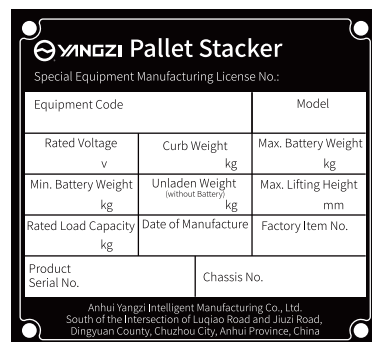


Figure 6: Nameplate
(Subject to actual affixed version)

3.Warnings, Residual Risks and Safety Instructions

! attention

- Do not perform stacking operations outdoors with the load raised higher than the low lift position (<300 mm).
- Do not place hands or feet under or reach into the lifting mechanism.
- Do not allow unauthorized personnel to stand in front of or behind the stacker while the truck is travelling or lifting/lowering.
- Do not overload the truck.
- Do not place feet in front of the wheels, as this may cause injury.
- Do not lift personnel. Personnel may fall and suffer serious injury.
- Do not push or pull goods manually.
- Do not operate the truck on ramps or slopes.
- Do not use the truck without the protective mesh guard installed (Item 14, Figure 1).
- Do not carry side loads or rear loads. Goods must be evenly distributed on the forks.
- Do not use the truck to transport unstable or unbalanced loads.
- Do not operate the truck without the manufacturer's operation manual.
- Do not supply AC voltage other than 110V or 220V required for the onboard charger.

Observe different ground conditions while driving. Goods may fall or the vehicle may lose control. Check the load status from time to time. If the goods become unstable, stop operating the vehicle immediately. If the goods slide on or off the vehicle, brake the vehicle immediately and press the emergency stop switch 6. For any malfunctions of the forklift, please refer to Chapter 6.

Perform maintenance according to regular inspections. This stacker is not waterproof. Please use this vehicle in a dry environment. Prolonged continuous operation may damage the battery assembly. Stop operation if the hydraulic oil temperature becomes too high.

! Precautions

- The operator must wear safety shoes when operating the stacker.
- The truck is designed for indoor use at an ambient temperature of +5°C to +40°C.
- The operating illumination must be at least 50 lux.
- Operation on slopes is prohibited.
- To prevent unexpected sudden movement of the truck when unattended (caused by other personnel or other factors), turn off the vehicle power supply when not in use.

4.Test run, transportation, shutdown

a.Commissioning

Table 2:Commissioning Test Data

Model	HSRS1501
Packing Weight [kg]	712
Lifting Height [mm]	2900

After receiving our new pallet truck or when re-adjustment is required, please follow the steps below before first operating the vehicle:

- Complete the final installation and charging of the battery (refer to Chapter 7).
- Perform operations according to daily inspections and machine function checks.

b. Lifting / Transportation

During transportation, remove the goods, lower the forks to the lowest position, and securely fix the vehicle with professional lifting equipment as shown in Figure 7.

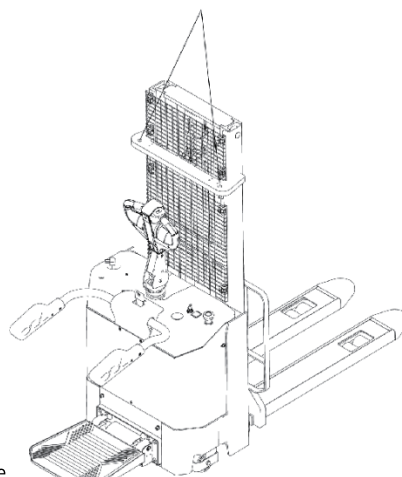


Figure 7:Lifting and transportation by crane

⚠ Lifting

Use dedicated cranes and lifting equipment.

Never stand under suspended or unstable loads.

Do not enter the danger zone while the load is being raised.

Park the vehicle safely, and lash the body at the points shown in Figure 8.

Lift and transport the vehicle to its destination, then place it safely before removing the lifting equipment.

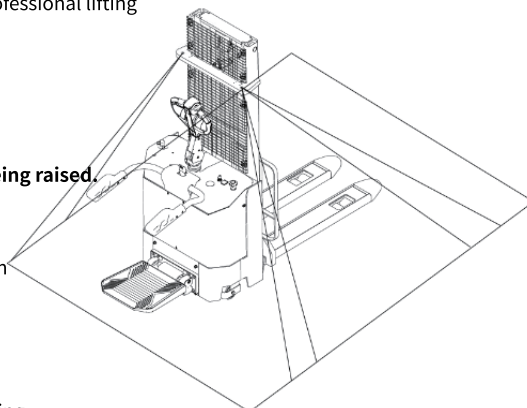


图 8: 固定点

Transportation

The vehicle must be firmly secured to the truck during transportation.

⚠ Hoisting

Lower the forks and park the vehicle safely. As shown in Figure 8, secure the mast and vehicle frame of each unit with dedicated lifting straps; fasten the other end to the transport truck.

c.Storage / Decommissioning

When storing the vehicle, remove the goods, lower the vehicle to its lowest position, and apply grease to all lubrication points specified in this manual (inspect regularly). Prevent the vehicle from rusting and dust accumulation. Remove the battery and check all safety devices to ensure the vehicle is free from extrusion during storage.

When the vehicle is finally decommissioned, hand it over to an appointed recycling company. In accordance with relevant regulations, oil, batteries and electrical components must be recycled separately.

5. Daily Inspection

This chapter describes the pre-operation inspections to be carried out before operating the vehicle. Daily inspections can effectively detect faults or malfunctions of the equipment. The following items of the vehicle shall be inspected prior to operation.

⚠ Remove the load from the vehicle and lower the forks. If any fault is found, stop using the vehicle immediately.

- Check for scratches, deformation or cracks.
- Check the oil cylinder for oil leakage.
- Check the straight-line driving performance of the vehicle.
- Check the chain and rollers for damage or corrosion.
- Check whether the wheels move smoothly.
- Press the emergency stop button to test the emergency braking function.
- Check the braking function of the control lever switch.
- Press the buttons to test the lifting and lowering functions.
- Check the protective mesh cover for damage and correct installation.
- Check the horn.
- Check that all bolts and nuts are properly tightened.
- Check the function of the key switch.
- Check the speed limit switch.
- Visually inspect all oil hoses and wires for damage.
- If the vehicle is equipped with a protective frame, check it for damage and correct installation.

6.Operating Instructions

Before operating this vehicle, follow all warnings and safety instructions (see Chapter 2).

Before operating this vehicle, ensure that goods or other equipment do not obstruct visibility.

Make sure the load is placed horizontally and stably, and complete the daily inspection.

To start, insert the key and turn it clockwise to the ON position.

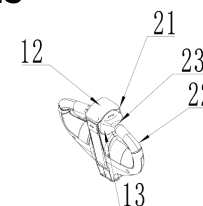


Figure 9:Handle Operation Control

a.Parking

⚠ Do not park the vehicle on a slope.

This vehicle is equipped with an electromagnetic fault protection parking brake.

Always lower the forks completely and drive the vehicle to a safe area. Turn the key counterclockwise to the OFF position and remove the key.

b.Load Curve Diagram

The load curve indicates the maximum load capacity Q [kg] of the vehicle with a horizontal load,

corresponding to a given load centre c [mm] and lifting height H [mm].

Example:

If the load centre distance c is 500 mm and the maximum lifting height H is 3600 mm,

the maximum load capacity Q at the maximum height is 800 kg.

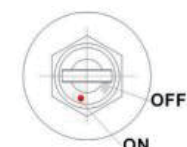


Figure 10 Key Switch

Type	HSRS-1501
Mast	3600

h3 (mm)	Q (kg)	
3600	800	600
3200	1000	800
2900	1200	1000
2500	1500	1100
c (mm)	500	600

Figure 11:Load Curve

c. Lifting

- ⚠ **Do not overload. The maximum load capacity is 1500 kg at a load centre of 500 mm. Only lift loads within the capacity permitted by the load curve.**

When travelling, lower the forks fully onto the support legs, and press the lift button (Fig. 9, 22) until the desired lifting height is reached.

d. Lowering

If the forks are positioned inside the rack, carefully move the vehicle together with the pallet, or move the vehicle out of the rack alone first. Press the lower button carefully (Fig. 9, 23). Lower the load until the forks are clear of the pallet, then drive the vehicle slowly away from the load.

e. Travelling

- ⚠ **Only travel on slopes with the load facing upward as shown in Figure 12.**

Do not travel on slopes beyond the specified technical parameters. Travel at reduced speed when the forks are raised above the lifting point (>300 mm).

Turn the inserted key to the ON position (Figure 10; pull up the emergency stop button carefully beforehand) to start the vehicle.

Move the control handle into the operating area ("F", Figure 13).

Turn the accelerator button to the desired forward direction Fw. or reverse direction Bw. (Figure 13).

Adjust the travel speed by gently moving the accelerator button (No.13, Figure 9) until the desired speed is reached.

Return the accelerator button to the neutral position, and the controller will decelerate the vehicle until it comes to a stop.

Once the vehicle stops, the parking brake will engage automatically.

Drive the vehicle carefully to the destination. Observe road conditions and adjust the travel speed via the accelerator button.

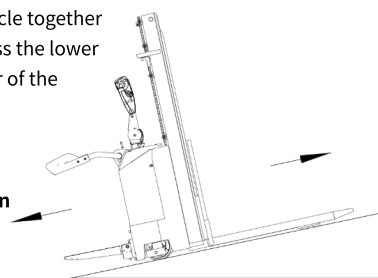


Figure 12: Load Facing Upward

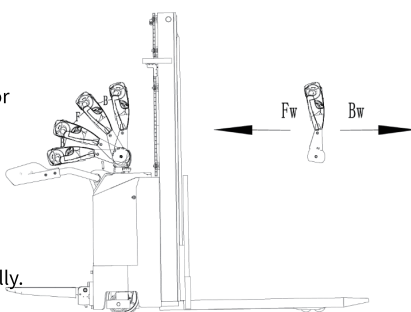


Figure 13: Operation Direction

f. Steering

Steer the vehicle by moving the handle left and right.

g. Braking

- ⚠ **Braking performance depends on road conditions and the vehicle load status. The braking function can be activated in the following ways (Figure 9, Figure 13):**
- Return the accelerator button (Fig. 9, 13) to the 0 position or release it to activate regenerative braking. The vehicle will brake until it comes to a complete stop.
 - Move the accelerator button (Fig. 9, 13) directly from one travel direction to the opposite direction; the vehicle will apply regenerative braking until it starts traveling in the reverse direction.
 - The vehicle brakes when the handle is moved upward or downward into the braking area (B). When the handle is released, it automatically returns to the upper braking area (B), and the vehicle continues braking until it stops.
 - The belly switch (Fig. 9, 12) protects the operator from being crushed. When the switch is activated, the vehicle decelerates and/or travels a short distance in reverse (Bw.), then stops. If the handle is in the operating area but the vehicle remains stationary, note that this switch may also control vehicle operation.

h. Malfunctions

If the vehicle malfunctions or cannot be operated, stop using it immediately and press the emergency stop switch 6 (Figure 1). If possible, park the vehicle in a safe area, turn the key switch 12 (Figure 1) counterclockwise, and remove the key.

Notify your supervisor and/or after-sales service personnel immediately. If necessary, use professional lifting equipment to tow the vehicle away from the operating area.

i. Emergency Situations

In case of an emergency or risk of vehicle tipping over, keep a safe distance. If possible, press the emergency stop switch (6), and all electrical functions will shut down immediately.

7. Battery Charging and Replacement

- ⚠
- Only qualified personnel are permitted to perform maintenance or battery charging. Always comply with this operation manual and the battery manufacturer's instructions.
 - These batteries are maintenance-free; refilling is prohibited.
 - Battery recycling must comply with national regulations. Please observe all relevant provisions.
 - Keep open flames away when handling batteries, as emitted gas may cause an explosion!
 - Do not store flammable materials or liquids in the battery charging area. Smoking is prohibited, and the area must be well ventilated.
 - Park the vehicle safely before starting battery charging, installation or replacement.
 - Before completing maintenance work, ensure all wiring harnesses are correctly connected and do not interfere with other vehicle components.

For lead-acid models, the vehicle is equipped with the following sealed lead-acid batteries:

- 2 pieces × 12V / 105Ah 20hr

- ⚠ The weight of the battery has a certain influence on the vehicle handling performance.
- Please observe the maximum operating temperature of the battery.

a. Replacement

- ① Park the vehicle safely, switch off the stacker using the key (Fig. 1, 12), and press the emergency stop switch (Fig. 1, 6). Unscrew the two screws on the main cover and remove the outer main cover. Loosen and remove the screws at the negative terminals (marked -) of both batteries, then remove the screws at the positive terminals (marked +), and place the wiring harness aside. Loosen the battery baffle and remove it. When taking out the batteries, take care not to collide with the upper electrical instrument panel or the side oil tank. Remove the second lower battery in the same manner (lead-acid models only). Installation is the reverse of the removal procedure. Always connect the battery positive terminal first. Failure to do so may cause vehicle damage.
- ② Two lead-acid batteries

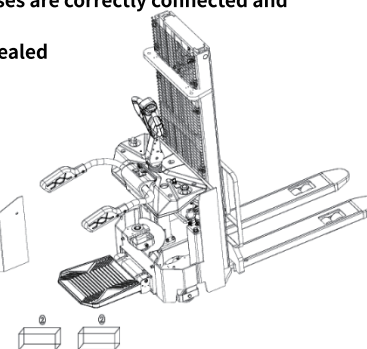


Figure 14: Battery replace

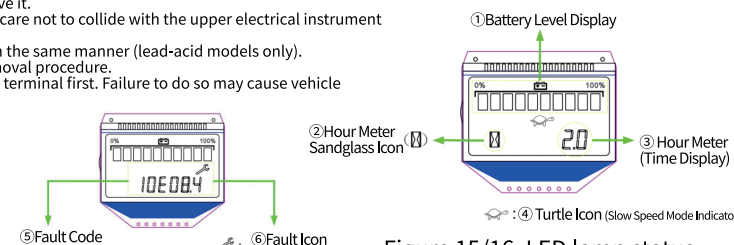


Figure 15/16: LED lamp status

b. Battery Indicator Display

Only when the battery is properly charged and reaches the reset voltage will the rightmost LED light up. As the battery state of charge decreases, the LEDs light up sequentially, one at a time. It features power-off memory function.

- ① Battery level display: each grid represents 10% of battery capacity. Only one grid is displayed at minimum. The battery level grids flash when in low power state.
- ② Hour meter funnel icon. When the funnel flashes, it indicates the handle is timing; it flashes by default when the handle is displaying message receiving time.
- ③ Hour meter time display, unit: hour. Maximum display value: 99999.9h.

- ④: Mode status icon. When this icon is lit, it indicates that the handle mode is activated; when off, the handle mode is deactivated. By default, the handle mode status is toggled by briefly pressing the turtle button.
- ⑤: When the handle displays a fault, it will occupy the hour meter display area and alternate with the hour meter. Different prefixes correspond to different fault types. For detailed fault protocols, refer to the fault code definitions.
- ⑥: Fault icon. This icon will be displayed when a fault occurs.

c.Charging

- This vehicle uses an external charger. Do not use any other charger for charging.
- Before using the charger, fully understand the contents of the charger's instruction manual.
- The charging area must be well ventilated.
- The accurate charging status can only be viewed on the discharge display. To check the charging status, you must interrupt charging and start the vehicle.

Park the vehicle in a designated safe area with a dedicated power supply.
Lower the forks and remove the load.
Turn off the vehicle power, then plug the external charger into the vehicle's charging port (Figure 7).
The charger will begin charging the battery.
A flashing red light on the external charger indicates charging in progress; a steady green light indicates charging complete. The table below shows the functions corresponding to LED statuses:

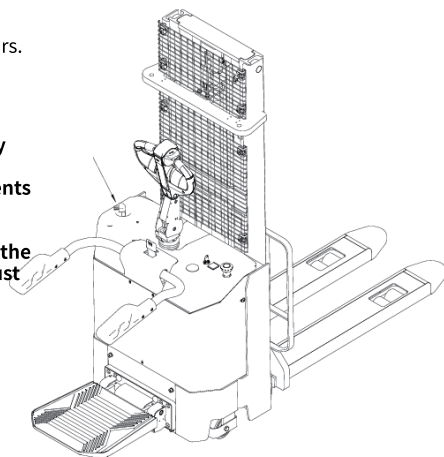


Figure 17: Battery charging

Table 3: LED Indicator Status

LED Indicator	Function
Red flashing	Battery charging in progress
Green steady	Battery fully charged
Yellow-green alternating	Invalid connection or fault status

8.Periodic Maintenance

- ▲● Only qualified and trained personnel are permitted to perform maintenance work on this vehicle.
- ▲● Before maintenance, remove the load from the forks and lower the forks to the lowest position.
- ▲● If lifting the vehicle, use the specified lashing or jacking equipment as described in Chapter 4. Before operation, place safety devices (e.g., designated jacks, wedges or wooden blocks) under the vehicle to prevent accidental lowering, movement or sliding.
- ▲● Pay attention to the maintenance of the control lever. The gas spring is preloaded; careless handling may cause injury.
- ▲● Use only approved original parts supplied by your dealer.
- ▲● Be aware that hydraulic oil leaks may cause machine failure and accidents.
- ▲● Pressure valve adjustment may only be performed by trained service technicians.
- ▲● If you need to replace the wheels, follow the instructions above. Castors must be round and free of abnormal wear. Check all items listed on the maintenance checklist.

a.Maintenance checklist

		Interval (months)			
		1	3	6	12
Hydraulic system					
1	Check the hydraulic cylinders and pistons for damage, noise, and leaks.		●		
2	Check hydraulic connections and oil lines for damage and leaks.		●		
3	Check the hydraulic oil level and refill if necessary.		●		
4	Refill with hydraulic oil (for 12 months or 1500 working hours).				●
5	Check and adjust the function of the pressure valve (1500 kg +0/ +10%).				●
Mechanical system					
6	Check the forks for deformation and cracks.		●		
7	Check the chassis for deformation and cracks.		●		
8	Check that all screws are fully tightened.		●		
9	Inspect the gantry and chain for corrosion, deformation, or damage	●			
10	Check the gearbox for noise and leaks.		●		
11	Check the wheels for deformation and damage, and replace them if necessary.		●		
12	Lubricate steering bearings				●
13	Check and lubricate the spindle center point		●		
14	Grease nipple	●			
15	Replace any damaged protective and/or protective panels.	●			
Electrical system					
16	Check if the wires are damaged.		●		
17	Check the condition of electrical connectors and terminals.		●		
18	Test the emergency stop switch function		●		
19	Check the electric drive motor for noise and damage.		●		
20	Test display		●		
21	Check that the correct fuse is being used and replace it if necessary.		●		
22	Detect speaker		●		
23	Check the pump contactor		●		
24	Check the frame for leaks (insulation test).		●		
25	Check the controller's operating functions.		●		
26	Check if the drive motor is damaged.		●		
Braking system					
27	Check braking; replace brake discs or adjust clearance if necessary.		●		
Battery					
28	Check battery voltage		●		
29	Clean and grease the terminals, and check for corrosion and damage.		●		
30	Check if the battery casing is damaged.		●		
Charger					
31	Check if the main power cord is damaged.				●
32	Check the startup protection program during charging.				●
Function		●			
33	Detect speaker	●			
34	Check the air gap of the electromagnetic brake.	●			
35	Test emergency braking function	●			
36	Detect reverse braking and regenerative braking functions	●			
37	Detecting the belly switch function	●			
38	Check steering function	●			
39	Check the boost and descent functions	●			
40	Check the lever switch function	●			
41	Check the key switch for damage and functionality.	●			
42	Speed limit switch for detection (lifting height >~300mm)	●			
Comprehensive					
43	Check that all labels are clear and intact.	●			
44	Check that the protective panels and/or guards are not damaged.	●			
45	Inspect the steering wheels; if worn, adjust the height or replace them.		●		
46	Conduct a trial run	●			

b.Lubrication Points

Lubricate the marked points shown on the maintenance checklist.

Required grease specification: DIN 51825, standard grease.

- | | |
|------------------|----------------------------|
| 1 Wheel bearings | 4 Steering bearings |
| 2 Mast | 5 Gearbox |
| 3 Chains | 6 Balance wheel bearings |
| | 7 Handle steering bearings |

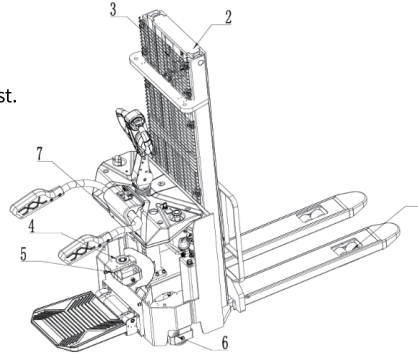


Figure 18 : Lubrication Points

c.Inspection and Hydraulic Oil Refilling

Required hydraulic oil grade:

Ambient Temperature	-5°C~25°C	>25°C
Grade	L-HM- 32, DIN 51524	L-HM- 46, DIN 51524
Viscosity	28.8-35.2	41.4 - 47
Oil Capacity	4L(Fill according to the actual vehicle model)	

Waste materials such as waste oil, waste batteries and other waste components must be disposed of and recycled in accordance with national regulations. When necessary, hand them over to a professional recycling company for proper recovery.

d.Electrical Fuse Inspection

Remove the main outer cover. The fuse is located as shown in Figure 19; refer to Table 5 for specifications.

Table 5: Fuse Specifications

	Power Rating
FU1	80A
FU01	10A
FU02	200A

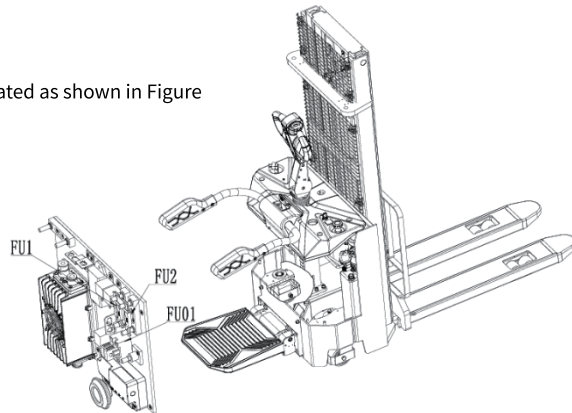


Figure 19 Fuse Location

e.Removal and Reinstallation of Protective Grid

⚠ Do not operate this vehicle if safety guards are damaged or incorrectly installed!

If the protective grid needs to be removed, unscrew the fixing screws and take off the grid carefully. The screws remain on the machine body.

For reinstallation, position the protective grid correctly and fasten all screws securely.

If you need to replace any parts, please contact your local after-sales service partner.

9.Troubleshooting

If the vehicle still malfunctions after following the instructions in Chapter Six of the owner's manual.

Fault	Reason	Repair
Goods cannot be lift	Weight too large	Only increase maximum load
	Battery discharge	battery charging
	booster fuse malfunctioned	Inspect and ultimately replace the booster fuse.
	Hydraulic oil level too low	Check and finally fill with hydraulic oil.
	oil leak	Inspect the sealing of the oil pipes and/or cylinders.
Can't absorb oil	Excessive oil content	Reduce oil quality
Goods cannot be dropped	Oil clogging control valve	Check the hydraulic fluid and clean the control valves.
	The descent solenoid valve is not open or is damaged.	Inspect or replace the descent solenoid valve
Forklift cannot be operated	Battery is charging	Fully charge the battery, then unplug the main power cord from the power outlet.
	Battery not connected	Connect the battery correctly
	Fuse malfunction	Inspect and eventually replace the fuse.
	Battery is low	battery charging
	Power is not on.	Check emergency stop, key, and other switch components.
	The operation sequence was incorrect.	First, move the handle to the braking area, then return the handle to the operating area, and then operate the accelerator.
Vehicles travel in only one direction	Accelerator and connector damaged	Inspect the accelerator and connectors
The forklift moves very slowly	Battery is low	Check the battery status on the discharge indicator.
	Electromagnetic brake has been activated.	Check the electromagnetic brake
	The relevant handle wiring harness is not connected or is damaged.	Check the handle wiring harness and connectors
Forklift suddenly started.	Controller damaged	Replace controller
	The accelerator did not move back to its intermediate position.	Repair or replace the accelerator

If the vehicle breaks down and cannot be driven out of the working area by normal operation, jack up the vehicle, place fixing supports underneath to secure it safely, then tow the vehicle clear of the aisle.

10.Wiring / Circuit Diagram

a. Circuit Diagram (Lead acid Battery)

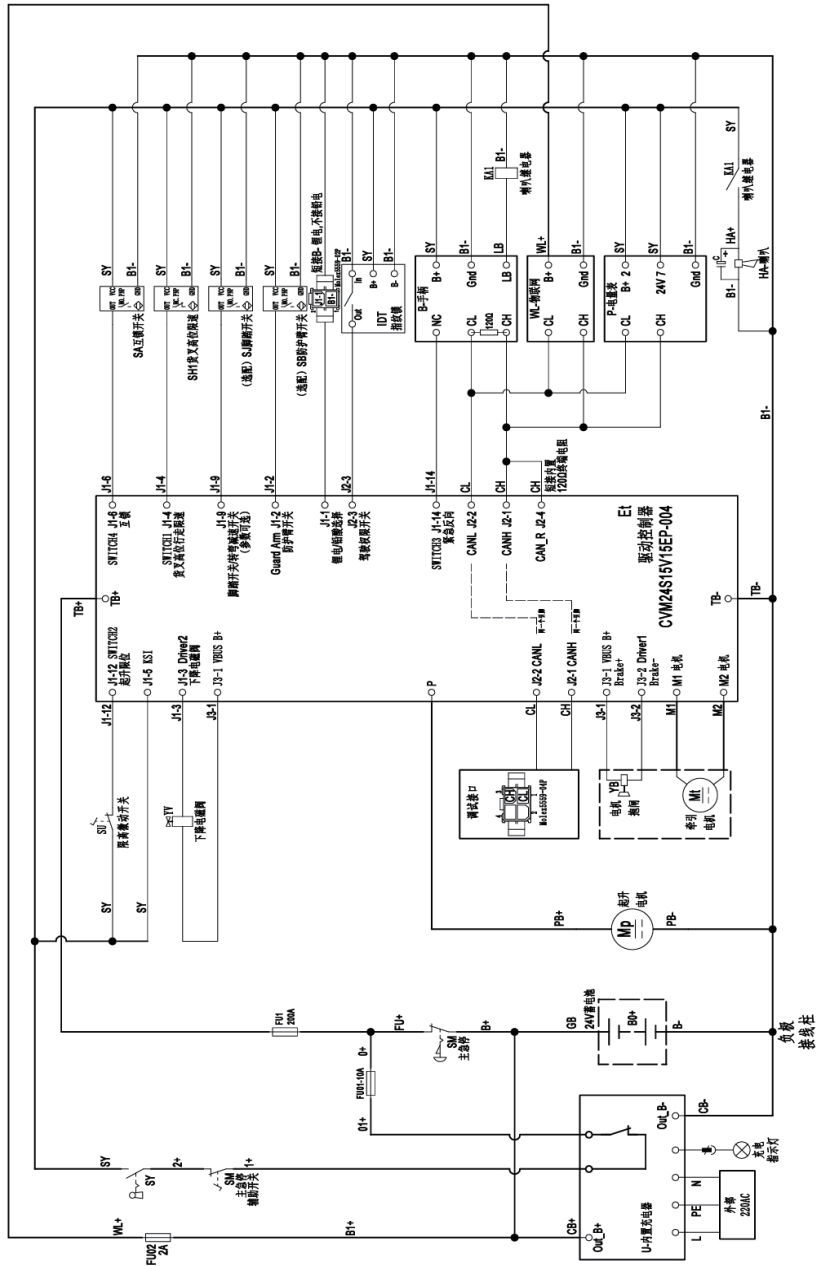


Figure 20: Circuit Diagram(Lead-Acid Battery)

b. Hydraulic circuit

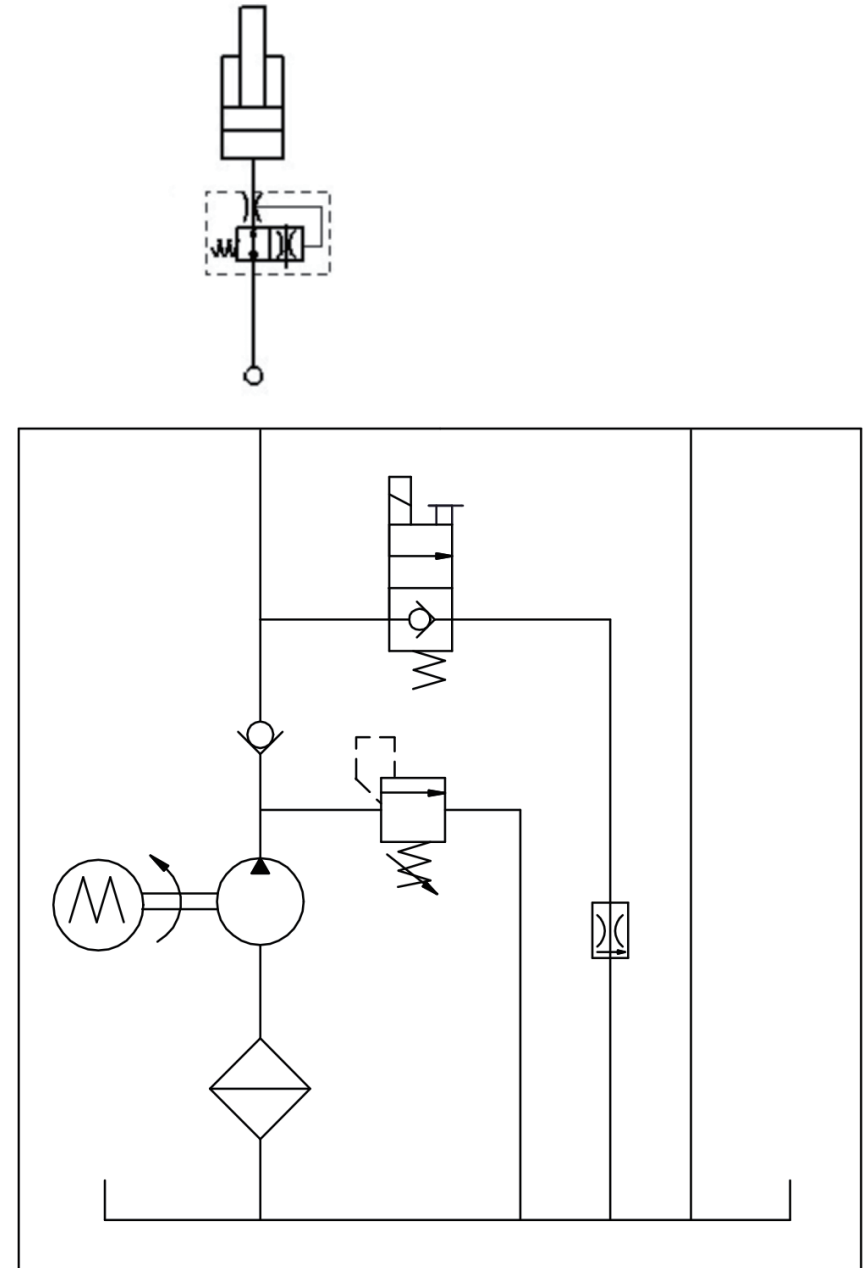
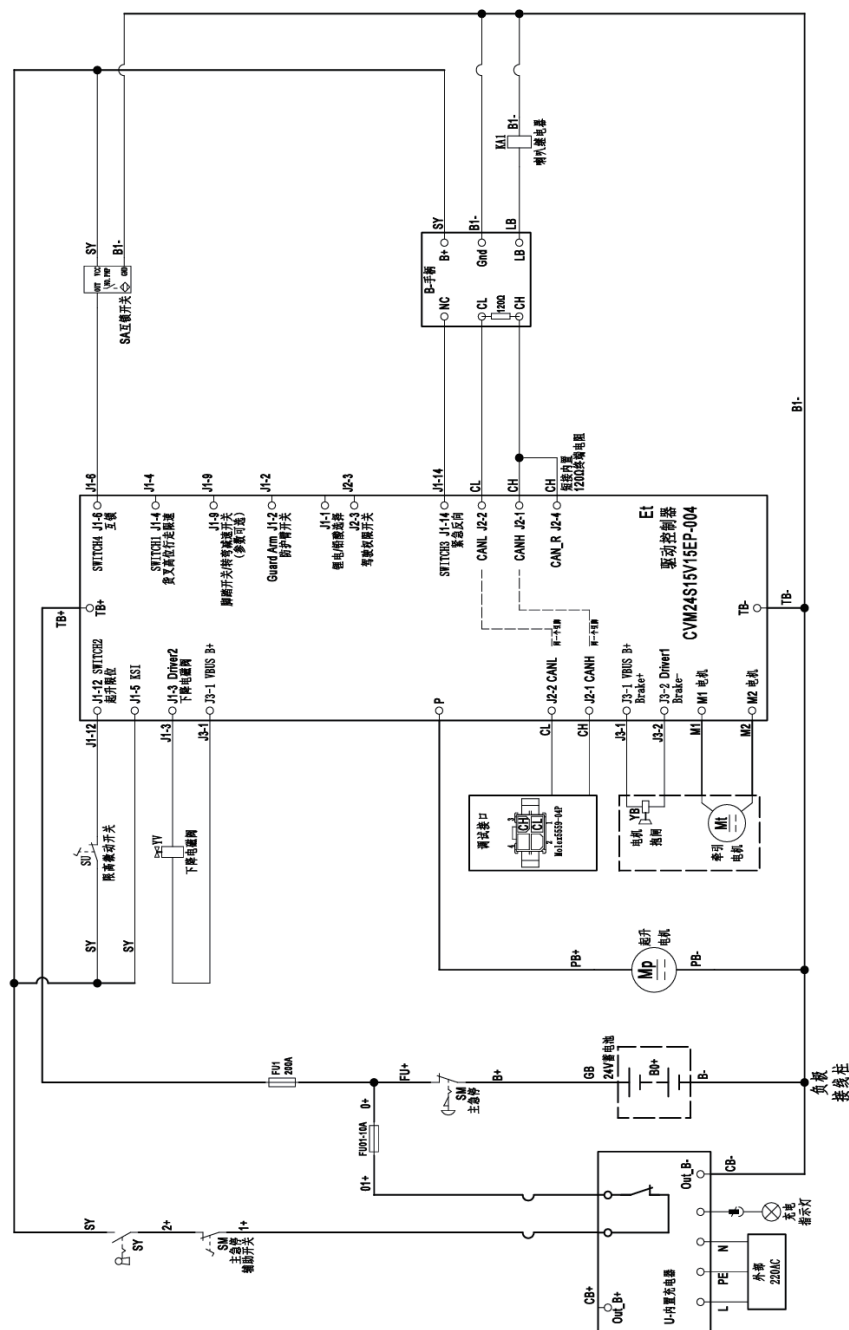


Figure 22: Hydraulic circuit

c.Braking system schematic diagram



User Notice :

一、Warranty Period:

1. The warranty period for warehouse forklifts is 12 months from the date of sale or 1000 hours of use, whichever comes first.
2. Parts covered by a 12-month or 1000-hour warranty include: frame, mast, motor, electronic control system, battery, charger assembly, accelerator, chain forks, gas springs, instruments, hydraulic cylinders, steering gear, multi-way valve, gear pump, and various bearings;
3. Parts covered by a 6-month or 500-hour warranty include: hoses, brakes, master cylinder, wheel cylinders, front wheel assembly, caster wheel assembly, drive wheel outer ring, horn, various seals, handlebar panel buttons, etc.
4. Components covered by a one-month or 200-hour warranty include: various sensors, various relays (starting, intermediate, safety, solenoid valves, etc.), various switches (brake, steering, reversing, lights), electronic regulators, and warning lights;
5. The above-mentioned malfunctions not caused by quality issues are not covered by warranty. The warranty period is whichever comes first. 6. For detailed warranty information, please consult Yangzi Forklift After-Sales Service Department or your local dealer.

II.Warranty Principles:

1. During the warranty period, routine maintenance of the machine must be performed.
2. Under normal use, if any parts have defects in material, manufacturing, or assembly, and are determined by Yangzi Forklift's professionals to be non-human-caused damage, the defective parts will be repaired or replaced free of charge.
3. Defects in forklifts may cause damage or downtime, reputational or economic losses (such as economic or moral, direct or indirect, anticipated, etc.) to users other than the machine itself. Yangzi Forklifts is only responsible for the repair and replacement of defective parts of the machine itself, and is not liable for compensation for losses other than those caused by the machine itself.

III.The following objects and situations are not covered by the warranty, even within the warranty period:

- 1.Losses or defects caused by accidents, improper driving, violations of regulations, negligence, or force majeure events such as overloading.

2. Defects and losses caused by unauthorized additions or modifications to the machine, alterations to the machine's structure or purpose, or impacts on the machine's performance and stability, without the consent of relevant personnel from Yangzi Forklift.
3. Unauthorized disassembly or intentional damage to the timer's operation will be handled as if the vehicle's warranty has expired.
4. Failure to stop and troubleshoot the machine when it malfunctions, resulting in losses due to operation while faulty, or losses artificially amplified by the operator.
5. Unauthorized adjustment, disassembly, or repair of system pressure settings or machine components, or incomplete parts, missing nameplates, etc., making it impossible to identify the cause of the malfunction and the responsible party.
6. Failure to perform routine maintenance on the machine, resulting in malfunctions.
7. Malfunctions caused by using substandard or unsuitable fuels for the local climate and temperature.
8. Faults where responsibility cannot be determined due to the loss of faulty parts.
9. Electrical components such as plugs, sockets, light bulbs (including combination lights), fuses, motor carbon brushes, and other easily damaged parts are not covered by the warranty.

Forklift Warranty Regulations

category	Warranty coverage	Warranty period
Complete machine	Motors: (walking motors, lift motors, gearboxes, etc.) Electrical components: (accelerators, controllers, chargers, batteries, etc.) Hydraulic components: (cylinders, pumps, chains, etc.) Structural components: (frames, forks, steering systems, etc.)	12 months
Consumable parts	Bearings, shafts, key switches, emergency stop switches, rollers, instruments, combination switches	6 months
Consumables	Plastic parts, brake pads, tires, light bulbs, fuse boxes, springs, paint, etc.	No warranty

END