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CB-2001LS



## Model 03 Pallet Truck

### Usage and Maintenance Instructions



#### 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.

## Foreword

Read this manual thoroughly and understand all operating procedures before using this truck. Improper operation may cause hazards.

This manual describes the operation of various types of electric pallet trucks. Please ensure the truck matches your company's model before servicing.

Please keep it safe for future use. If this manual or warning/caution labels are damaged or lost, please contact your local dealer for replacement.

This pallet truck complies with EN ISO 3691-1 (Industrial trucks — Safety requirements and verification — Part 1), EN 12895 (Industrial trucks — Electromagnetic compatibility), EN 12053 (Industrial trucks — Test methods for measuring noise emission), and EN 1175-1 (Industrial truck safety — Electrical performance requirements). The truck must be used for the above-stated purposes only.

According to EN 12053, the noise level at the operator's ear is 69 dB(A).

According to EN 13059 (if the vehicle is equipped with a pedal), the vibration is 0.85 m/s<sup>2</sup>.

### **Note:**

.Hazardous waste harmful to the environment, such as waste batteries, waste oil, and electronic products, will have a negative impact on the ecological environment or human health if disposed of improperly.

.Waste packaging shall be sorted into solid waste bins according to materials and collected and disposed of by the local environmental protection authority. To avoid pollution, do not litter.

.To prevent oil leakage during product use, users should prepare absorbent materials (waste wood chips or dry rags) to absorb spilled oil in a timely manner. To avoid secondary environmental pollution, used absorbent materials shall be handed over to specialized departments in accordance with local authority regulations.

.Our products are continuously improved. Since this manual is only for the operation/-maintenance of the pallet truck, it cannot cover special circumstances beyond this scope. Please understand.

### **Note:**

In this manual, the symbol on the left indicates warnings and dangerous situations that may result in death or serious injury if not followed.

### **Copyright**

Copyright is reserved by the company mentioned in the CE standard on the last page of this manual.

## Correct Use

**This electric pallet truck shall only be used in accordance with this manual.**

The pallet truck described in this manual is a self-propelled electric pallet truck with electrically controlled height lifting functions. It is designed for lifting, lowering, and transporting palletized loads.

Improper use may cause personal injury or machine damage.

The operator/operating company shall ensure correct use and that the truck is only operated by trained and authorized personnel.

The truck shall be used on firm, flat, intact, and suitable surfaces. It is intended for indoor use at an ambient temperature of +5°C to +40°C and for various load applications without crossing permanent obstacles or pits. Operation on ramps is prohibited. During operation, the load must be placed approximately at the load center of the truck.

Lifting or carrying people is strictly prohibited.

If used on a liftgate or loading platform, ensure they are used correctly in accordance with the operating instructions.

The rated load is marked on the load label and nameplate. Operators must pay attention to these warning signs and safety instructions.

The operating illumination shall be at least 50 lux.

### Modifications

Any modifications or changes that may affect the truck's rated load, stability, or safe operation must obtain prior written approval from the original vehicle manufacturer, its authorized manufacturer, or its successor. This includes impacts on braking, steering, visibility, and the addition of removable attachments. After the manufacturer or its successor approves the modification or change, the load nameplate, labels, identification marks, operation, and maintenance manual shall be updated accordingly.

**Vehicle damage caused by failure to follow these instructions will void the warranty.**

## 1. Counterbalanced Lightweight Stacker

### a. Main Components Overview

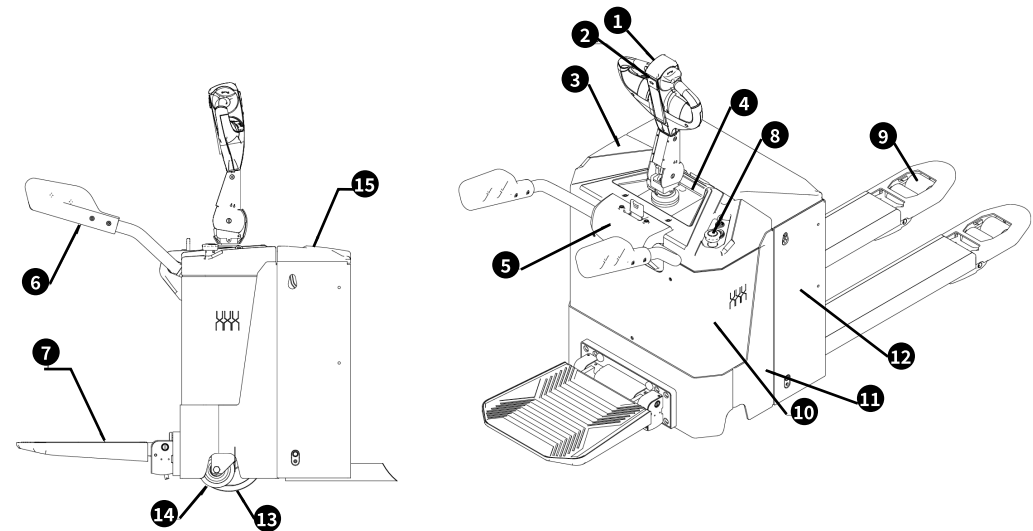


Fig. 1: Overview of Main Components

|   |                                    |    |                  |
|---|------------------------------------|----|------------------|
| 1 | Belly switch                       | 9  | Load wheel       |
| 2 | Operating tiller                   | 10 | Outer cover      |
| 3 | Top cover                          | 11 | Body             |
| 4 | Middle cover                       | 12 | Frame            |
| 5 | Protective arm cover (optional)    | 13 | Drive wheel      |
| 6 | Protective arm assembly (optional) | 14 | Stabilizer wheel |
| 7 | Pedal assembly (optional)          | 15 | Battery cover    |
| 8 | Emergency stop switch              | 16 | /                |

## b.Main Technical Data

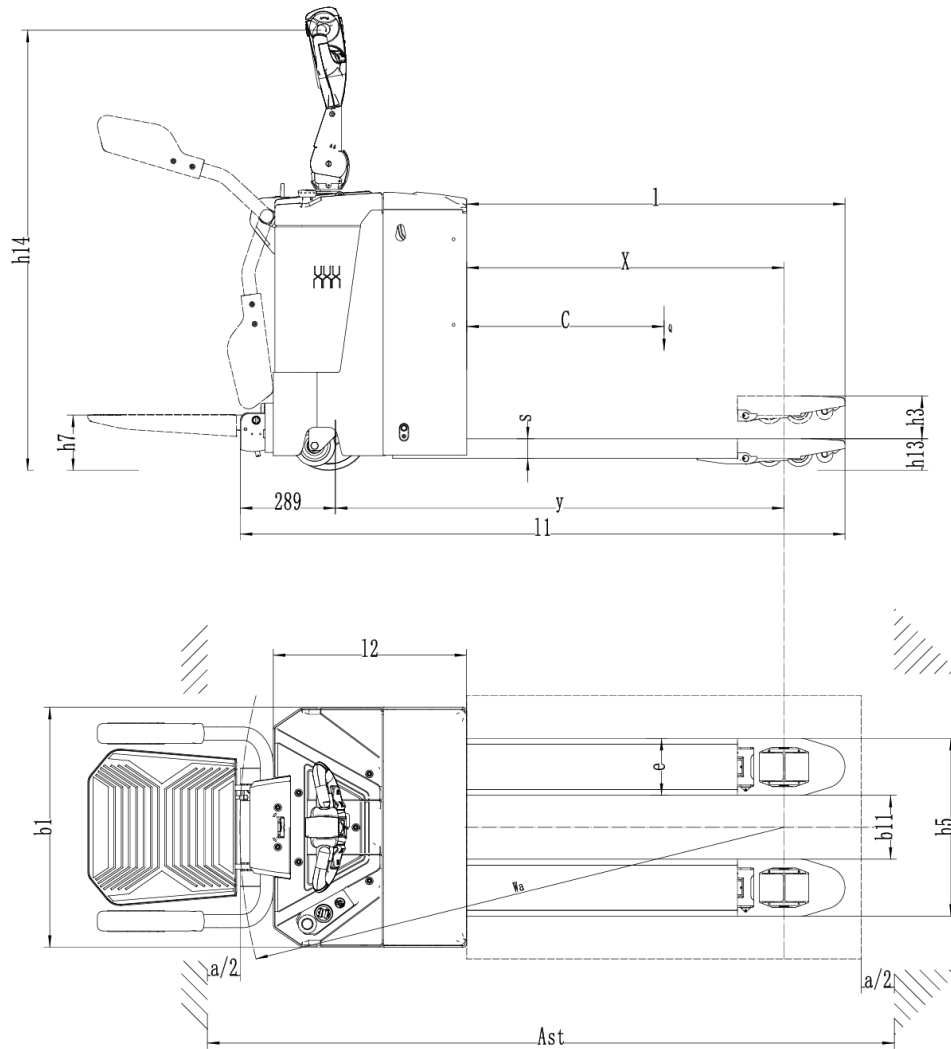


Fig. 2: Technical Parameters

## Industrial Truck Type Table (VDI2198)

|                |      |                                             |                      |                                  |
|----------------|------|---------------------------------------------|----------------------|----------------------------------|
| Characteristic | 1.1  | Model                                       | /                    | YZ-CB2001LS                      |
|                | 1.2  | Power                                       | /                    | Electric                         |
|                | 1.3  | Operation Type                              | /                    | Stand-on Walkie                  |
|                | 1.4  | Rated Load Capacity                         | Q (kg)               | 2000                             |
|                | 1.5  | Load Center Distance                        | c (mm)               | 600                              |
|                | 1.6  | Front Overhang                              | x (mm)               | 965                              |
|                | 1.7  | Wheelbase                                   | y (mm)               | 1388                             |
| Weight         | 2.1  | Self Weight                                 | kg                   | 580                              |
|                | 2.2  | Axle Load (Loaded), Drive/Load Side         | kg                   | 1161/1419                        |
|                | 2.3  | Axle Load (Unloaded), Drive/Load Side       | kg                   | 475/105                          |
| Wheel          | 3.1  | Wheel                                       | /                    | PU (Polyurethane Wheel)          |
|                | 3.2  | Wheel Dimensions, Drive side                | $\Phi \times w$ (mm) | $\Phi 252 \times 88$             |
|                | 3.3  | Wheel Dimensions, Load side                 | $\Phi \times w$ (mm) | $\Phi 84 \times 84$              |
|                | 3.4  | Number of Wheels (x=Drive), Drive/Load Side | /                    | $1x + 2/4$                       |
|                | 3.5  | Track Width, Load Side                      | b11 (mm)             | 520                              |
| Dimensions     | 4.1  | Lift Height                                 | h3 (mm)              | 365                              |
|                | 4.2  | Handle Height (Min/Max) during Operation    | h14 (mm)             | 120/140                          |
|                | 4.3  | Fork Lowered Height                         | h13 (mm)             | 85                               |
|                | 4.4  | Overall Length                              | l1 (mm)              | 1850                             |
|                | 4.5  | Chassis Length                              | l2 (mm)              | 700                              |
|                | 4.6  | Overall Width                               | b1 (mm)              | 729                              |
|                | 4.7  | Fork Dimensions (Thickness/Width/Length)    | s/e/l (mm)           | 60 / 173 / 1150                  |
|                | 4.8  | Outer Fork Width                            | b5 (mm)              | 540                              |
|                | 4.9  | Min. Ground Clearance                       | m2 (mm)              | 30                               |
|                | 4.10 | Aisle Width (800x1200 pallet, 200mm safety) | Ast (mm)             | 2250                             |
|                | 4.11 | Turning Radius                              | Wa (mm)              | 1750                             |
| Performance    | 5.1  | Travel Speed (Loaded/Unloaded)              | km/h                 | 5.4/5.8                          |
|                | 5.2  | Lifting Speed (Loaded/Unloaded)             | m/s                  | 0.025/0.03                       |
|                | 5.3  | Lowering Speed (Loaded/Unloaded)            | m/s                  | 0.026/0.024                      |
|                | 5.4  | Max. Gradeability (Loaded/Unloaded)         | %                    | 6/10                             |
|                | 5.5  | Service Brake                               | /                    | EM Brake                         |
| Motor          | 6.1  | Drive Motor Power (S2 30min)                | kW                   | 1.5 (Drive Motor Power S2 60min) |
|                | 6.2  | Lift Motor Power (S3 10%)                   | kW                   | 0.8                              |
|                | 6.3  | Battery Type (per DIN 43531/35/36 A, B, C)  | /                    | No                               |
|                | 6.4  | Battery Voltage / Rated Capacity (K5)       | V / Ah               | 48/52                            |
|                | 6.5  | Battery Weight (+/-5%)                      | kg                   | 56                               |
| Other          | 7.1  | Drive Control Method                        | /                    | DC Speed Control                 |
|                | 7.2  | Noise Level at Driver's Ear (per EN12053)   | dB(A)                | $\leq 75$                        |



### c.Description of Safety Devices and Warning Labels

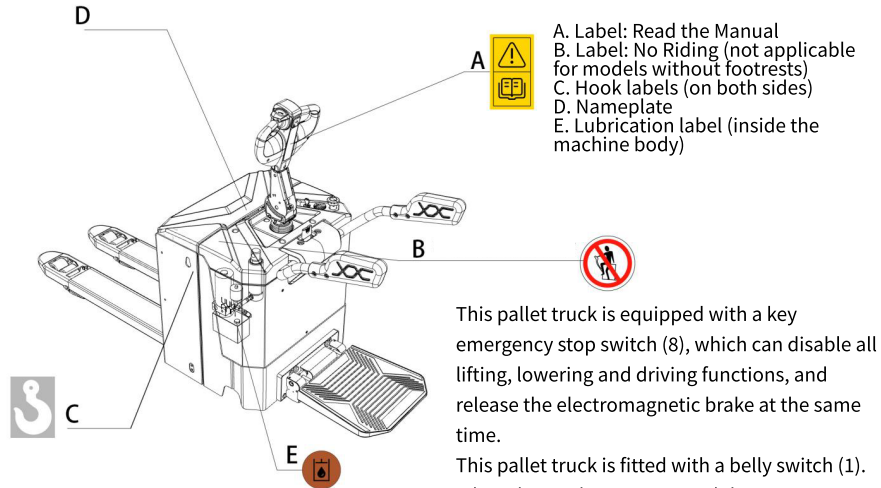


Figure 3: Safety Labels

### d.Nameplate

The layout and content of the nameplate are subject to the actual label affixed to the equipment.

This pallet truck is equipped with a key emergency stop switch (8), which can disable all lifting, lowering and driving functions, and release the electromagnetic brake at the same time.

This pallet truck is fitted with a belly switch (1). When the truck moves toward the operator, triggering the belly switch within the handle operating range will reverse the truck to travel away from the operator.

Always follow the instructions shown on the labels. Replace any damaged or missing labels promptly.

## 2.Warnings, Residual Risks & Safety Instructions

### NOTE

- Do not place feet or hands under or inside the lifting mechanism.
- Do not allow unauthorized personnel to stand in front of or behind the truck during operation or lifting/lowering.
- Do not overload.
- Do not place feet in front of wheels; may cause injury.
- Do not lift personnel; may result in severe injury from falling.
- Do not push or pull loads.
- Do not carry eccentric or rear-mounted loads; distribute loads evenly on forks.
- Do not transport unstable or unbalanced loads.
- Do not operate without the manufacturer's manual.
- Do not lift loads in windy conditions; lifted loads may become unstable.
- Do not use emergency mode on ramps. Brake release is for emergency vehicle movement only, not for normal operation. Prohibited on ramps.

Watch for uneven ground; loads may fall or truck may lose control

Check load condition periodically. Stop immediately if load becomes unstable

If load slides on or off the truck, brake immediately and press emergency stop switch (8). For any malfunction, refer to Chapter 6

"Perform periodic inspections and maintenance

This truck is not waterproof; use in dry environment only. Continuous long operation may damage the power unit. Stop operation if hydraulic oil overheats."

### Precautions

- Wear safety shoes when operating the electric pallet truck.
- Suitable for indoor use at +5°C to +40°C.
- Minimum operating illumination: 50 lux.
- Do not operate on ramps.
- Turn off power when not in use to prevent unintended movement.

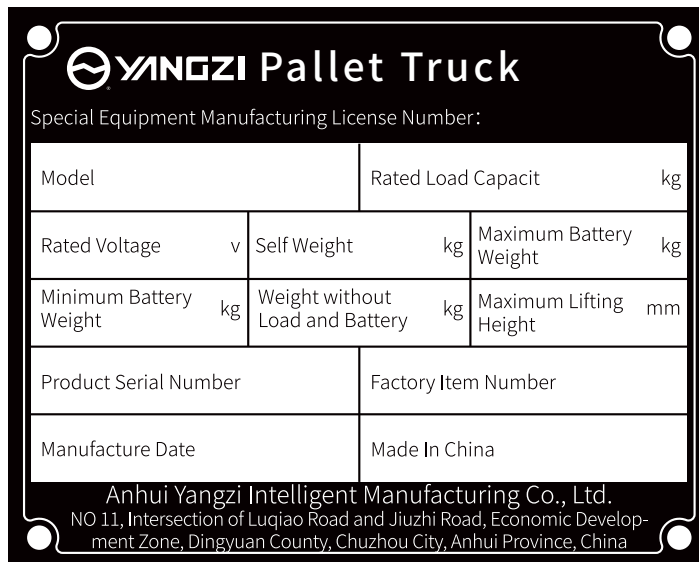


Figure 4: Nameplate

### 3.Commissioning, Transportation, Storage & Decommissioning

#### a.Commissioning

Table 2: Commissioning Data

|                         |               |
|-------------------------|---------------|
| Model                   | SE-HPRS2001   |
| Operation Load [kg]     | 580           |
| Overall Dimensions [mm] | 1850x730x1400 |

Upon receiving a new truck or before re-commissioning, complete these steps before first operation:

- Verify all parts are complete and undamaged.
- Install multifunctional handle.
- Install and charge battery (refer to Chapter 7).
- Perform daily inspection and function test.

#### b. Lifting / Transportation

Remove load, lower forks to minimum, disconnect battery connector, secure with certified lifting equipment as shown.

##### ⚠ Lifting

**Use professional cranes and lifting gear. Do not stand under suspended loads or enter hazardous zones.**

Park safely and lash the truck at points shown in Fig. 8. Lift to destination and set securely before removing lifting gear.

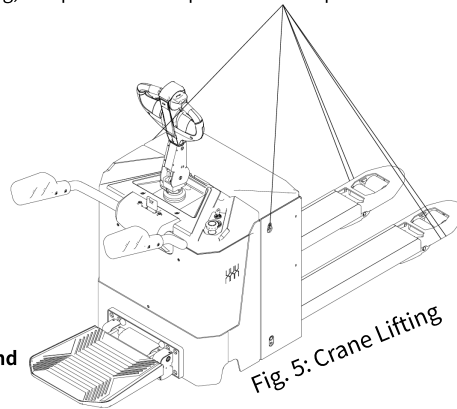


Fig. 5: Crane Lifting

##### ⚠ Transportation

Secure the truck firmly to the delivery vehicle during transport. Lower forks and park safely. Use certified lifting straps at main frame ribs as shown in Fig. 6; fix the other end to the transport vehicle.

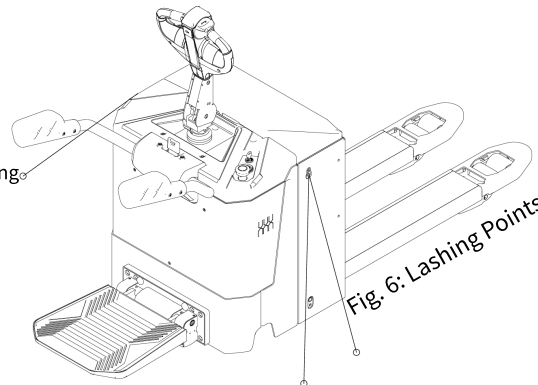


Fig. 6: Lashing Points

#### C.Storage / Decommissioning

Remove load and lower forks to minimum during storage. Grease all lubrication points specified in this manual (periodic inspection) to prevent corrosion and dust buildup. Remove battery and inspect safety devices to avoid extrusion damage.

For final decommissioning, deliver to authorized recycling companies. Oil, batteries and electronic components must be recycled per regulations.

### 4. Daily Inspection

This chapter specifies pre-operation inspections.

Daily inspections detect faults early. Inspect these items before operation.

##### ⚠ Remove load and lower forks. Stop use if any fault is found.

- Check for scratches, deformation or cracks
- Check cylinders for oil leakage
- Check longitudinal running performance
- Check wheels for free rotation
- Activate emergency button to test emergency brake function
- Check handle proximity switch brake function
- Operate buttons to test lifting/lowering functions
- Check all bolts and nuts for tightness
- Visually inspect hoses and wiring for damage

### 5.Operating Instructions

**Observe all warnings and safety instructions (Chapter 3) before operation.**

Ensure loads are palletized and stable; perform daily inspection

Ensure loads are palletized and stable; Insert key switch (10) and power on.

Press horn button (19) to activate audible alarm

#### a.Parking

##### ⚠ Do not park on ramps

Fully lower forks, press emergency stop switch (8), turn key counterclockwise 90° and remove key.

#### b.Lifting

Do not overload. Rated capacity: 2000 kg at 600 mm load center. Keep forks fully lowered during travel; lift only when required. Press lift button (20) to reach desired height

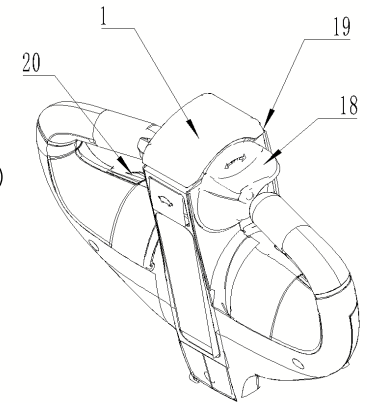


Fig. 7: Handle Controls

### c. Lowering

Press lower button (20) carefully.  
Lower load until forks reach chassis,  
then drive away carefully.

### d. Travel

- ⚠ **Travel on ramps only with load facing uphill as shown in Fig. 8.**  
**Do not travel on ramps exceeding rated parameters.**

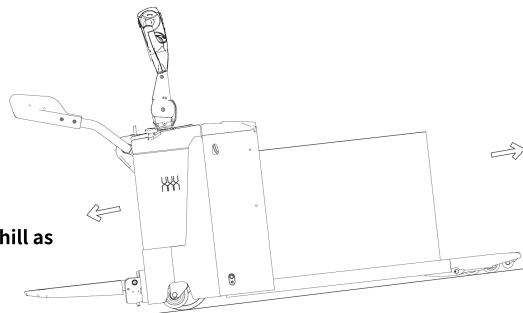


Fig. 8: Load Facing Uphill

Power on with key switch; move handle to operating zone (F, Fig. 9)  
Rotate accelerator to forward (Fw) or reverse (Bw)  
Adjust accelerator (18) smoothly to control speed  
Returning accelerator to center activates deceleration until stop; parking brake engages automatically.  
Drive carefully to destination, observe ground conditions and adjust speed via accelerator knob.

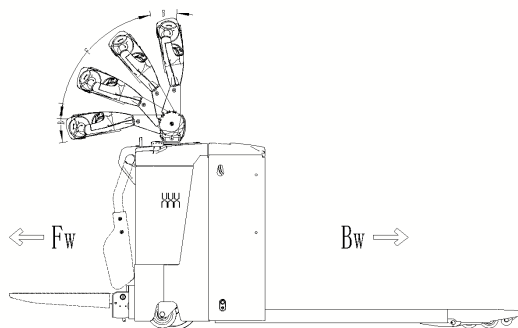


Fig. 9: Operating Directions

### e. Steering

Electric power steering (EPS) is optional. Exercise caution with EPS; operation differs from manual steering.  
Steer by moving the handle left or right.

### f. Braking

- ⚠ **Braking performance depends on ground and load conditions**  
**Braking is activated by:**

- Returning accelerator (18) to "0" or releasing it: regenerative braking.
- Moving accelerator directly from forward to reverse: regenerative braking before reverse.
- Moving handle up/down to brake zone (B): vehicle brakes to stop. Handle returns to upper brake zone (B) automatically when released.
- Belly switch (1) prevents operator entrapment. When activated, truck decelerates and/or reverses (Bw) briefly then stops. It remains active when handle is in operating zone but truck is stationary.

### g. Malfunction

"Stop operation and press emergency stop switch (8) if any fault occurs. Park in safe area if possible, turn key counterclockwise and remove key."

"Notify supervisor or after-sales service immediately. Use certified towing/lifting equipment to remove truck from working area if needed."

### h. Emergency

Keep safe distance in emergencies or if tipping risk occurs. Press emergency stop switch (8) if possible; all functions stop.



## 6. Battery Charging & Replacement

- "Only qualified personnel may service or charge batteries."
- Follow this manual and battery manufacturer's instructions strictly."
- Lead-acid and lithium batteries are permitted.
- Battery recycling must comply with national regulations.
- No open flames near batteries; risk of gas explosion.
- No flammable materials or liquids in charging area; smoking strictly prohibited. Ensure good ventilation.
- Park truck safely before charging, installation or replacement.
- Ensure correct electrical connections and no interference with other components before service.

For standard batteries, this truck is equipped with the following lead-acid battery model:

- 4 12V/ 52.3Ah



- Both lead-acid and lithium batteries are permitted.
- Battery weight affects vehicle operation.

Consider the maximum operating temperature of the battery.

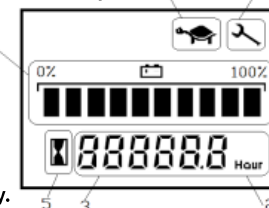


Fig. 10: Instrument Display

### a. Replacement

Park the vehicle safely, turn off the key switch, and press the emergency stop switch (8) to shut down the vehicle. Open the battery box cover (15) and keep it vertical. Loosen the screws, remove the battery stopper, disconnect the battery connector, then lift out the battery. Installation is the reverse of removal. Connect the positive terminal first; otherwise, the vehicle may be damaged.

#### b.1 Display

(1) Power display: 10 full segments represent 100% power, 10% per segment. One segment turns off for every 10% power consumed. Segments flash when remaining power is 20% or below to remind charging. The display resets to full when the battery is charged to the reset voltage. The instrument retains memory on each power-on.

Hour meter: Records vehicle operating time in hours, with an accuracy of 0.1 hours. Retains memory on each power-on.

Fault display: Two parts — a wrench symbol (illuminated when faulty, off when normal) and a fault code (displayed in the hour meter position when the wrench symbol is on; refer to the fault code table for details).

Turtle speed display: Not shown under normal conditions. Illuminated when the handle turtle speed button is pressed, indicating slow speed.

Hourglass: Activates when handle function keys are triggered; stationary when not triggered.

#### b.2 Battery Discharge Indicator

Discharge status is indicated by 10 red LED segments.

Only the rightmost LED lights when the battery is fully charged. LEDs light sequentially from right to left as the battery discharges (one at a time).

- The second LED from the left flashes to indicate "energy reserve" (70% depth of discharge).
- The two leftmost LEDs flash alternately to indicate "empty battery" (80% depth of discharge).

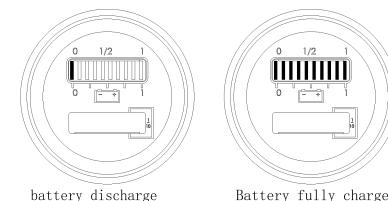


Fig. 11: Battery Discharge Indicator

### C.Charging

- Only use the supplied charger for charging.
- Fully understand the contents of the charger manual before use.
- Comply with these regulations.
- The charging room must be well-ventilated.
- Full charge status can only be checked via the discharge indicator. To check, interrupt charging and start the vehicle.

Park the vehicle in a dedicated safe area with a dedicated power supply.

Lower the forks and remove the load.

Turn off the vehicle power. Connect the charger to the battery connector first, then to the external power supply.

The charger starts charging.

After full charge, disconnect the charger from the external power supply first, then install the battery box cover, and reconnect the battery to the vehicle connector.

## 7.Regular Maintenance

- ▲ ● Only qualified and trained personnel are allowed to perform maintenance on this truck.
- ▲ ● Before maintenance, remove the load from the forks and lower the forks to the lowest position.
- ▲ ● If lifting the vehicle is required, use the specified lashing or lifting equipment in accordance with Chapter 4. Before operation, place safety devices (e.g., fixed lifting jacks, shaped objects or wooden blocks) under the vehicle to prevent accidental falling, moving, or sliding.
- ▲ ● Use caution when maintaining the handle lever. The gas pressure spring is pre-installed under compression; careless handling may cause injury.
- ▲ ● Use original spare parts approved and issued by the dealer.
- ▲ ● Be aware that hydraulic oil leakage may cause machine malfunctions and accidents.
- ▲ ● Only trained service technicians are allowed to adjust pressure.

Follow the above instructions if replacing wheels. Casters must be round and free of abnormal wear.

Check key items on the maintenance checklist.

### a.Maintenance Checklist

| Table 3:Maintenance Checklist |                                                                                | Time Interval                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hydraulic System</b>       |                                                                                | To be performed by the end user without the involvement of professional maintenance personnel.<br>Carry out once every 50 working hours, but at least once a week. |
| 1                             | Check hydraulic oil level and top up if necessary                              |                                                                                                                                                                    |
| <b>Mechanical System</b>      |                                                                                |                                                                                                                                                                    |
| 2                             | Check wheels for deformation and damage                                        |                                                                                                                                                                    |
| <b>Electrical System</b>      |                                                                                |                                                                                                                                                                    |
| 3                             | Check emergency stop switch function                                           |                                                                                                                                                                    |
| 4                             | Check display function and warning signals                                     |                                                                                                                                                                    |
| <b>Brake System</b>           |                                                                                |                                                                                                                                                                    |
| 5                             | Check brake function                                                           |                                                                                                                                                                    |
| <b>Battery</b>                |                                                                                |                                                                                                                                                                    |
| 6                             | Check for damage to the lithium battery housing                                |                                                                                                                                                                    |
| <b>Functions</b>              |                                                                                |                                                                                                                                                                    |
| 7                             | Check horn function                                                            |                                                                                                                                                                    |
| 8                             | Check emergency brake function                                                 |                                                                                                                                                                    |
| 9                             | Check reverse braking and regenerative braking functions                       |                                                                                                                                                                    |
| 10                            | Check emergency reverse switch function                                        |                                                                                                                                                                    |
| 11                            | Check steering function                                                        |                                                                                                                                                                    |
| 12                            | Check lifting and lowering functions                                           |                                                                                                                                                                    |
| 13                            | Check handle proximity switch function                                         |                                                                                                                                                                    |
| <b>General</b>                |                                                                                |                                                                                                                                                                    |
| 14                            | Check that all labels are clear and intact                                     |                                                                                                                                                                    |
| <b>2 Customer Service</b>     |                                                                                | To be performed by qualified service technicians. Service interval: every 1000 operating hours, but at least once per year.                                        |
| <b>Hydraulic System</b>       |                                                                                |                                                                                                                                                                    |
| 1                             | Inspect hydraulic cylinders and pistons for damage, abnormal noise and leakage |                                                                                                                                                                    |
| 2                             | Inspect hydraulic connectors for damage and leakage                            |                                                                                                                                                                    |
| 3                             | Top up hydraulic oil after 12 months or 1500 operating hours                   |                                                                                                                                                                    |
| 4                             | Inspect and adjust the function of hydraulic valves (2000kg, +0/+10%)          |                                                                                                                                                                    |
| <b>Mechanical System</b>      |                                                                                |                                                                                                                                                                    |
| 5                             | Inspect forks and chassis for deformation and cracks                           |                                                                                                                                                                    |
| 6                             | Check that all screws are securely fastened                                    |                                                                                                                                                                    |
| 7                             | Inspect push rods for deformation and damage                                   |                                                                                                                                                                    |
| 8                             | Check gearbox for abnormal noise                                               |                                                                                                                                                                    |
| 9                             | Lubricate steering bearings if necessary                                       |                                                                                                                                                                    |
| 10                            | Inspect and lubricate pivot points if necessary                                |                                                                                                                                                                    |
| 11                            | Lubricate grease nipples                                                       |                                                                                                                                                                    |
| <b>Electrical System</b>      |                                                                                |                                                                                                                                                                    |
| 12                            | Inspect emergency stop switch function                                         |                                                                                                                                                                    |
| 13                            | Inspect display function                                                       |                                                                                                                                                                    |
| 14                            | Check electrical wiring for damage                                             |                                                                                                                                                                    |
| 15                            | Inspect electrical connections                                                 |                                                                                                                                                                    |
| 16                            | Check motors for abnormal noise and damage                                     |                                                                                                                                                                    |
| 17                            | Verify that correct fuses are used                                             |                                                                                                                                                                    |
| 18                            | Inspect contactors                                                             |                                                                                                                                                                    |
| 19                            | Test frame for electrical leakage (insulation test)                            |                                                                                                                                                                    |
| 20                            | Inspect function and wear of the drive controller                              |                                                                                                                                                                    |
| 21                            | Inspect electrical system of the drive motor                                   |                                                                                                                                                                    |
| 22                            | Test warning signals                                                           |                                                                                                                                                                    |

| 2 Customer Service  |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| <b>Brake System</b> |                                                                                |
| 23                  | Inspect brake performance; replace brake discs and adjust air gap if necessary |
| <b>Battery</b>      |                                                                                |
| 24                  | Inspect the voltage of lithium battery                                         |
| 25                  | Check battery terminals for corrosion and damage, and lubricate terminals      |
| <b>Charger</b>      |                                                                                |
| 26                  | Inspect main cable for damage                                                  |
| 27                  | Check start protection program during charging                                 |
| <b>Functions</b>    |                                                                                |
| 28                  | Inspect horn function                                                          |
| 29                  | Inspect emergency brake function                                               |
| 30                  | Inspect reverse braking and regenerative braking functions                     |
| 31                  | Inspect emergency reverse switch function                                      |
| 32                  | Inspect steering function                                                      |
| 33                  | Inspect lifting and lowering functions                                         |
| 34                  | Inspect handle proximity switch function                                       |
| 35                  | Inspect air gap of solenoid valve                                              |
| 36                  | Inspect belly switch function                                                  |
| <b>General</b>      |                                                                                |
| 37                  | Check all labels for clarity and integrity                                     |
| 38                  | Inspect load casters, adjust height and replace if worn                        |
| 39                  | Perform a test run                                                             |

To be performed by qualified service technicians. Service interval: every 1000 operating hours, but at least once per year.

## b.Lubrication Points

Lubricate marked points per the maintenance checklist. Grease specification: DIN 51825 standard grease.

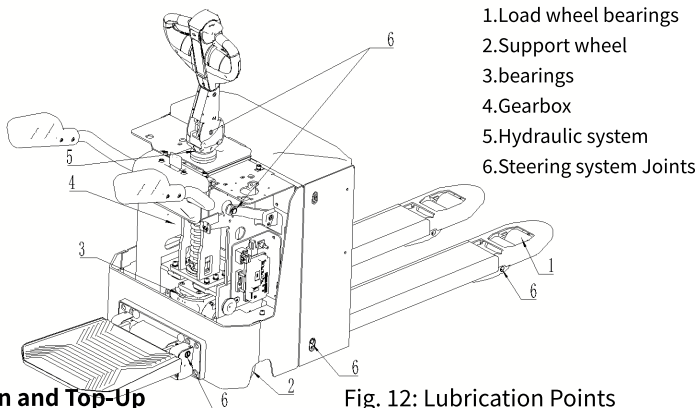


Fig. 12: Lubrication Points

## c.Hydraulic Oil Inspection and Top-Up

Hydraulic oil type:

| Type       | Description        |
|------------|--------------------|
| Grade      | H-LP 46, DIN 51524 |
| Viscosity  | 41.4 - 47          |
| Oil Volume | 0.7L               |

Waste materials such as waste oil, waste batteries or other materials must be disposed of and recycled in accordance with national regulations; hand over to recycling companies if necessary.

The oil level shall not be lower than the minimum required for starting the truck.

Top up oil to the filling point if necessary.

## d.Electrical Fuse Inspection

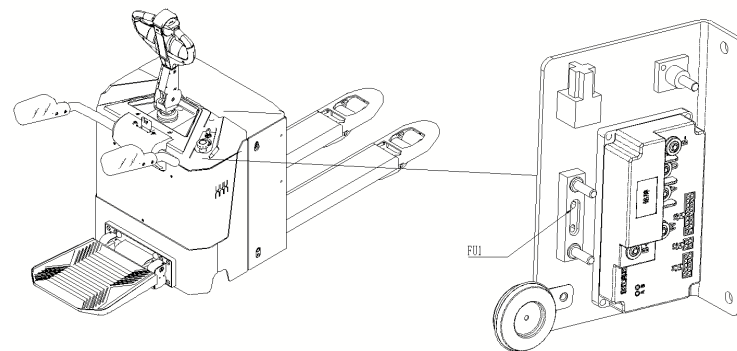


Fig. 13: Fuse Location

Table 4: Fuse Specifications

| Fuse FU1 | Specifications |
|----------|----------------|
|          | 200A           |

# 8.Troubleshooting

| Fault                    | Cause                               | Solution                                                                  |
|--------------------------|-------------------------------------|---------------------------------------------------------------------------|
| Goods cannot be lifted   | Excessive load weight               | Only lift the maximum capacity indicated on the nameplate                 |
|                          | Battery discharged                  | Charge the battery                                                        |
|                          | Lift fuse faulty                    | Inspect and replace the lift contactor                                    |
|                          | Hydraulic oil level too low         | Check and top up hydraulic oil                                            |
| Suction-type oil leakage | Oil leakage                         | Inspect the cylinder seals                                                |
|                          | Oil quality too high                | Reduce oil quality                                                        |
| Truck cannot be operated | Battery is charging                 | Fully charge the battery, then unplug the main power plug from the socket |
|                          | Battery not connected               | Connect the battery correctly                                             |
|                          | Fuse faulty                         | Inspect and replace the fuse                                              |
|                          | Low battery power                   | Charge the battery                                                        |
|                          | Combined emergency switch activated | Reconnect the power connector                                             |
|                          | Handle is in the operating area     | First move the handle to the braking area                                 |

If the vehicle breaks down and cannot be operated outside the work area, lift the vehicle, place a load-handling device underneath to ensure safety, then move the vehicle out of the passageway.

## 10.Wiring / Circuit Diagrams

### a. Circuit Diagram

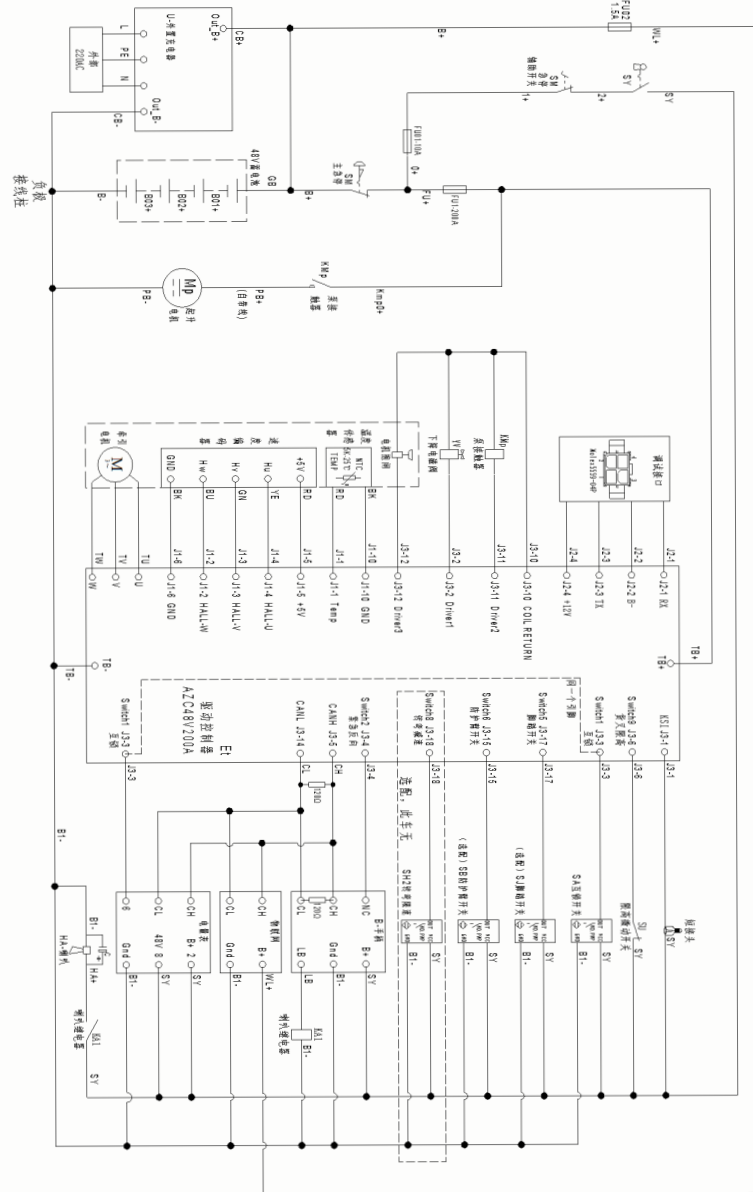


Fig. 14: Circuit Diagram (Single Safety Switch)

### b. Hydraulic Circuit

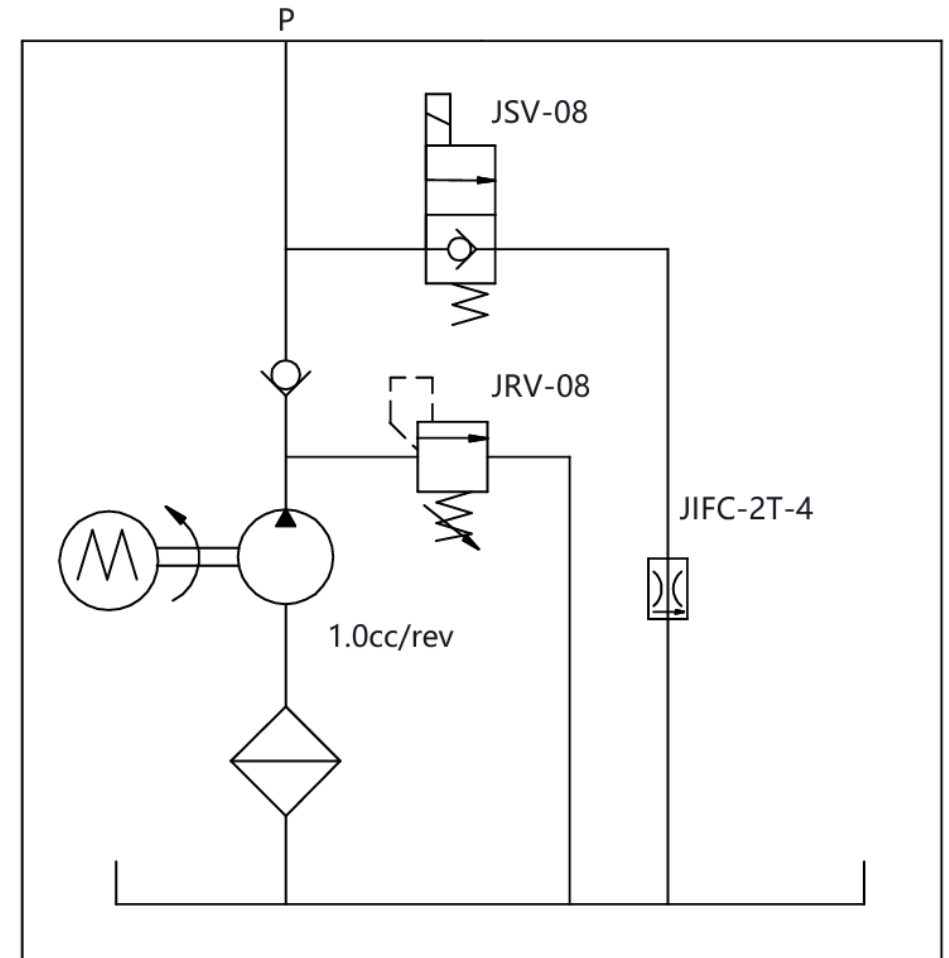
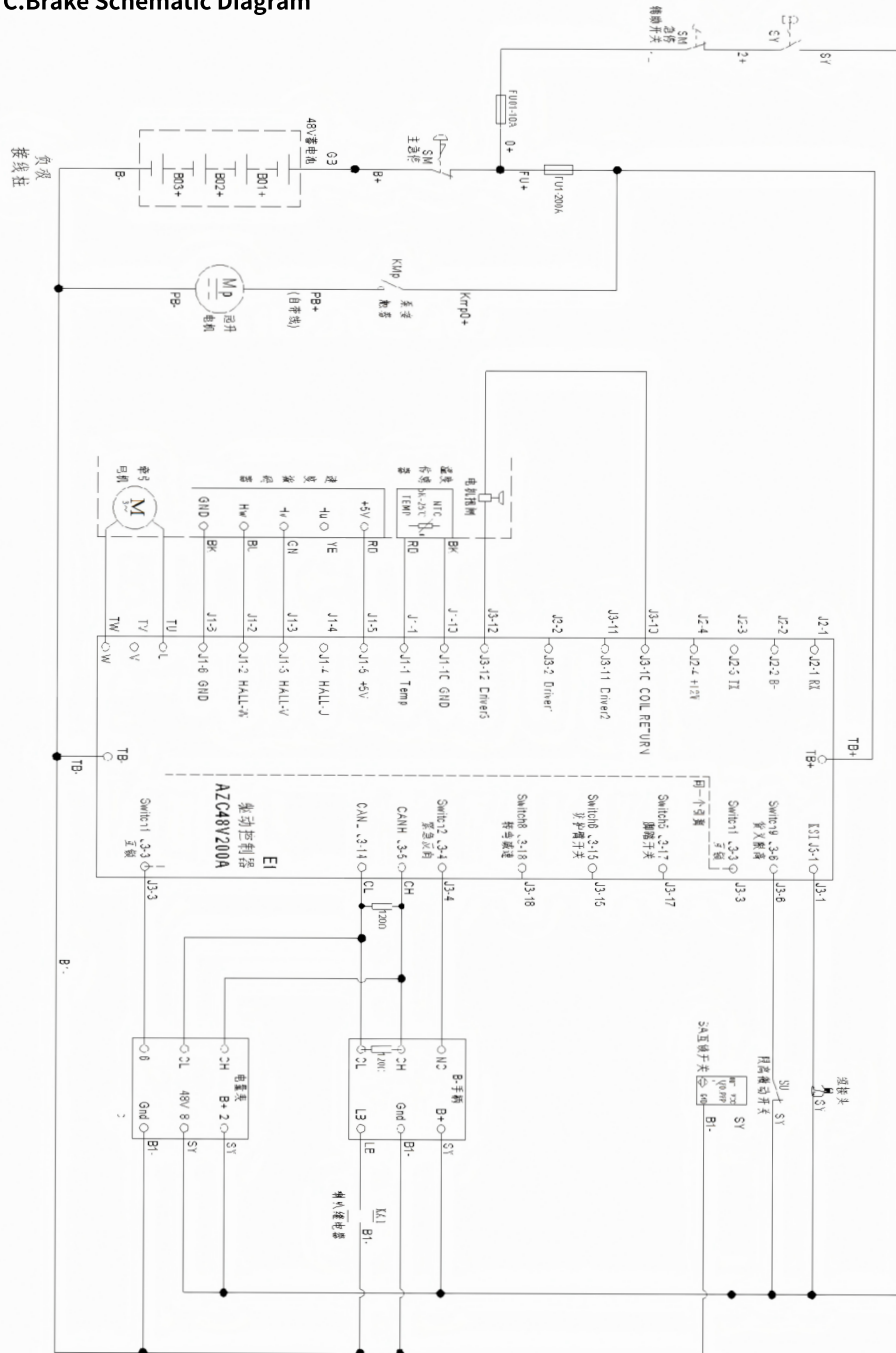


Fig. 15: Hydraulic Circuit



## C.Brake 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.)<br>Electrical components: (accelerators, controllers, chargers, batteries, etc.)<br>Hydraulic components: (cylinders, pumps, chains, etc.)<br>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     |