



A7S2-A7R6-A7S3

Pedestrian Straddle Truck

- Operating and Maintenance Manual



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550215648(R1)

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### 3. 2 Safety Operation Specification:

(1) Check the safety condition around the truck:



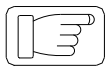
#### Notice

Never start the truck if there is someone positioned between the truck and a fixed structure.



#### Notice

If however the truck has to travel in reverse and the driver consequently has poor visibility, it is recommended that it is assisted by specialized and authorized personnel



#### Notice

Ensure no people around the truck when driving backwards.



#### Notice

Driving through the narrow access shall be assisted by specialized and authorized personnel.



#### Notice

Slow down at crossroads, pedestrian crossings, on ramps and gangways and on wet or slippery surfaces



#### Notice

Keep concentration when operating truck.



#### Caution

The driving mechanism of truck is installed on the fork side. Due to this difference from common vehicles, the fork side of truck swings comparatively fast when turning around. For this reason, to prevent collision with other objects nearby the fork side of truck, do drive or turn slowly.

(2) Strictly forbid harsh driving



#### Notice

Never start up, brake or turn abruptly.

Abrupt start-up or braking may cause the falling of loads.

## 6. 7 Charger

If the charger you use is full automatic type. It must meet with the following 2 requirements:

- a. The output voltage of charger: 24V
- b. The output current of charger: 30A

If the charger you use is semi-automatic or manually adjustable, please charge the battery pack according to the requirements of use and maintenance mentioned in the second tip.

## 7. Inspection before operation:

For the sake of safety operation and good situation of the electric truck, it is compulsory to check the truck completely before operation. Contact the sales department of our company when founding problems.

### 7. 1 Check point and check content:

|                 | No. | Check point                        | Check content   |
|-----------------|-----|------------------------------------|---|
| Braking system  | 1   | Operation handle                   | When the operation handle is turned, with the handle switching between area A and B, there is a noise from the brake.                               |
|                 | 2   | Brake clearance                    | The clearance between brakes should be kept between 0.2mm and 0.8mm.  |
| Steering system | 3   | Operation handle                   | Degree of tightness and rotary flexibility.   |
|                 | 4   | Oil pipe                           | Leakage or not.   |
|                 | 5   | Hydraulic oil                      | Appropriate oil quantity.   |
|                 | 6   | Lifting oil cylinder               | Whether there is any oil leakage.   |
| Wheels          | 7   | Pins, screws and all the fasteners | Check all the fasteners of the truck's wheels, i.e. pins or screws, loose or not.   |
|                 | 8   | Wearing status                     | Compare the parameter lists, replace the wheel when its diameter reduces by 5%.   |
| Storage battery | 9   | Charge                             | Confirm the display state of the battery capacity.  |
|                 | 10  | Electrolyte                        | The solution level and density of electrolyte.  |
|                 | 11  | Connecting line                    | The connecting line and socket shall be firm.   |
| Horn            | 12  | Horn                               | Press down the horn button to check whether the horn sounds.  |
| Instrument      | 13  | Function                           | Turn on the switch of electric lock to check whether the instrument displays normally or not.   |
| Others          | 14  | Truck frame, etc.                  | Damaged or not. If there is any crack.  |
|                 | 15  | Function                           | Check that whether lifting, lowering, forward & backward movement and emergency reverse of the truck is normal, and if there is any abnormal noise. |

## 13. Common fault signal and troubleshooting

### 1230 controller fault code and diagnosis list

| LED CODE | 1311 DISPLAY         | EXPLANATION                                 | POSSIBLE CAUSE   |
|----------|----------------------|---|--|
| 1,2      | motor speed encoder  | The speed sensor signal can't be detected.  | 1 Incorrect or ineffective speed sensor wiring.                  |
|          |                      |   | 2 Controller defective.  |
|          | Motor Failsafe       | The motor speed is not in the normal scope. | 1 Speed sensor malfunction.                                      |
|          |                      |   | 2 The electromagnetic brake of motor is not loosened completely. |
|          |                      |   | 3 Insufficient braking torque.                                   |
|          |                      |   | 4 P,I setting improper   |
|          |                      |   | 5 Failsafe delay too short                                       |
| 1,3      | Motor Overcurrent    | Motor overcurrent                           | 1 Incorrect motor wiring   |
|          |                      |   | 2 Controller defective.  |
|          | Motor Output Fault   | Controller output abnormal                  | 1 Incorrect motor wiring   |
|          |                      |   | 2 Controller defective.  |
| 1, 4     | Static Return To Off | SRO sequencing error                        | 1 Improper sequence of KSI,INTERLOCK,F/R                         |
|          |                      |   | 2 Wrong SRO type selected.                                       |
|          |                      |   | 3 Direction switch malfunction.                                  |
|          |                      |   | 4 Sequencing delay too short.                                    |
| 2, 1     | Throttle Wiper High  | Accelerator voltage is too high.            | 1 Accelerator is damaged.  |
|          |                      |   | 2 Wrong accelerator type selected.                               |
| 2, 2     | EMR Wiring Open      | EMR wiring fault                            | 1 EMR wire or check wire broken.                                 |
| 2, 3     | High Pedal Disable   | HPD   | 1 Incorrect sequence of accelerator and KSI,INTERLOCK.           |
|          |                      |   | 2 Wrong HPD type selected.                                       |
|          |                      |   | 3 Accelerator malfunction  |
|          |                      |   | 4 Key switch and INTERLOCK power-off.                            |
|          |                      |   | 5 Sequencing delay too short.                                    |
|          |                      |   | 6 Wrong accelerator type selected.                               |
| 2, 4     | Throttle Wiper Low   | Accelerator voltage is too low.             | 1 Accelerator is damaged.  |

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orientation and fixation correctly. Do not put tools and other metal substance on the lidless battery. Without the special approval (for example the truck factory), the electrical motor truck should not change the battery with different voltage, weight or size.

It is obliged to use the battery stated by the factory. It is obliged to prepare the facility for changing battery safely. When hanging up the battery using hoisting equipment, it is necessary to use insulated sleeve.

If adopting chain hoist, it is necessary to equip chain box. If adopting chain block, the lidless battery should be covered by a piece of rubber blanket or other insulated materials, to prevent the short circuit of chain and the connecting wire or connecting terminal between the battery lattices.

#### 14.1.4.6 The invalid or damaged truck

If finding the motor industrial truck existing insecurity factors, it should stop using and give away on the spot. After repairing and recovery to the safety conditions, it can be reused.

#### 14.1.4.7 Accident

Once the accident happens, for example the staff injures, the truck damages the building or the equipment, firstly should organize salvage, do best to protect the accident field and report to the governor.

### 14.1.5 Operating conditions

#### 14.1.5.1 Channel and stacking field

The ground of the operating field should have enough carrying capacity, and it is necessary to maintain it well not to influence the truck operating safely.

The transporting channel of the truck should have well visual field, and it is easy to turn, and no grade, steep slope, narrows channel and low roof board. The outline or the borderline must be clear. In the road where it is easy to meet the stepping truck, the width of the channel should be adjusted. Advising the grade of the channel should not over 10%, the top and the bottom of the slope should transit smoothly, to prevent the load vibration or the bottom of the truck from colliding with the ground.

When the grade is over 10%, installing a sign is advised.

If the truck is in operation (transport) and the load blocks line of sight when the vehicle is operating, the load should located on the backward of the truck operation direction.

For example: in some conditions (for example stacking and climbing), when the vehicle is operating, the load is required on the forward of the vehicle operation direction. Then, the driver should drive the vehicle carefully. It is necessary to attend: if the operation condition require, should equip accessory (assistant) equipment or assistant.

The passage, road, runway, floor or slope should maintain good operating conditions, to prevent the truck or the load from being damaged, and to prevent reducing the stability of the vehicle.

In dangerous state, including the barrier danger on the top, should mark on the clear location.

The fire fighting passage, the upstairs passage and the fire fighting equipment should maintain expedite.

#### 14.1.5.2 Gangplank or transition board

All the gangplank or transition board should has enough safety coefficients to bear the truck with load. On the gangplank or transition board should marked the max passing load perpetually.

The gangplank or transition board should be fixed firmly, to prevent the accidental movement, vibration or slide.

On the gangplank or transition board should equipped handing or other available equipment to the effect of safety transport. On the conditions of possible, should set the fork hole or suspending ear for moving loads.

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