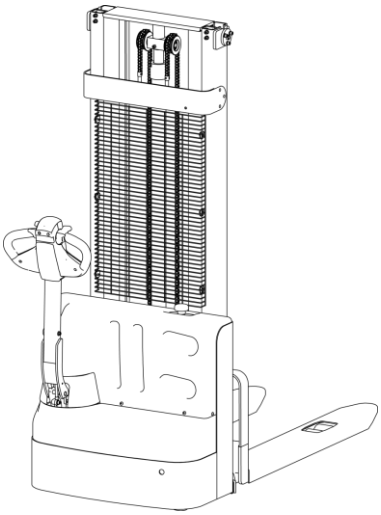
JIALIFT AUSTRALIA PTY LTD

Material Handling Equipment
Manufacturing, Inc.

The Manual Book CL10J Serial

Full Electric Walkie Stacker



CL10J-001 Version 06/2021

⚠WARNING

Do not use the electric walkie stacker before reading and understanding these operating instructions. NOTE:

- Please check the designation of your present type on the ID-plate.
- Keep for future reference.

FOREWORD

Before operate the walkie stacker, please read this ORIGINAL INSTRUCTION HANDBOOK carefully and understand the usage completely. Improper operation could cause danger.

This handbook describes the usage of different type electric stackers. When using and servicing the truck make sure that it applies to your type.

Keep this handbook for your future reference. If this handbook or the warning/caution labels are damaged or lost, please contact your local dealer to get the replacement.

This truck complies with the requirements according to EN 1S0 12100:2010 (Safety of machinery — General principles for design — Risk assessment and risk reduction); EN 61000-6-1:2007 (Electromagnetic compatibility [EMC] - Part 6-1: Generic standards - Immunity for residential, commercial, and light-industrial environments); EN 61000-6-3:2007+A1:2011 (EMC Generic standards. Emission standard for residential, commercial, and light-industrial environments), assumed the truck is used according to the described purpose.

ATTENTION:

Environmentally hazardous, such as batteries, oil and electronics will have a negative effect on the environment and health if handled incorrectly.

The waste packages should be sorted and put into solid dustbins according to the materials and be collected disposal by local special environment protection bureau. To avoid pollution, it’s forbidden to throw away the wastes randomly.

To avoid leaking during the usage of the products, the user should prepare some absorbable materials (scraps of wooden or dry duster cloth) to absorb the leaking oil in time. To avoid second pollution to the environment, the used absorbable materials should be handed in to special departments in terms of local authorities.

Our products are subject to ongoing developments. Because this handbook is only for the purpose of operating /servicing the walkie stacker, therefore please have understanding, that there is no guarantee out of a particular feature out of this handbook

NOTE: On this manual, the left sign means warning and danger, which can lead to death or serious injury if not followed.

Contents

1. CORRECT APPLICATION

It is only allowed to usage this electric walkie stacker according to this instruction handbook.

The handbook described the stackers are self-propelled pedestrian controlled electric walkie stacker with electrically operated lifting function. The stackers are designed for stacking goods in racking by lifting and lowering the pallet up to the desired lifting height.

A wrong operation can cause human injuries or damage the equipment. The operator/the operating company must ensure that this stacker is only used by trained staff, only authorized people can operate this stacker.

The stacker must be used on substantially firm, smooth, prepared, level and adequate surfaces. The stacker is intended to be used for indoor applications with ambient temperatures between +5°C and + 40°C and for light duty applications without crossing permanent obstacles or potholes. Operating on ramps is not allowed. Operating the load must be placed approximately on the longitudinal centre plane of the stacker. Lifting and transporting people is forbidden. When moving must lowered the load to the lifting point. It is not allowed to use this stacker on tail lifts and loading ramps.

The load capacity is marked on the load diagram and the Identification plate. The operator must consider the warnings and safety instructions. Operating lighting must be minimum 50 Lux.

Modification

The modifications or alterations to this stacker may affect capacity, stability, or safety requirements of the stacker. This includes changes affecting, for example braking, steering, visibility, and the addition of removable attachments. Any modification or alteration should be prior written approved by manufacturer or its successor, they shall also make and approve appropriate changes to capacity plate, decals, tags and operation and maintenance handbooks.

By not observing these instructions, the warranty becomes void.

2. DESCRIPTION OF THE STACKER

a. Overview of the main components

1 Key switch

2 Discharge indicator and charging indicating LED

3 Emergency button

4 Main cover

5 Forks

6 Load wheels

7 Charging cable

8 Drive motor cover

9 Hydraulic cylinders

10 Drive wheel

11 Castors

12 Safety (belly) button

13 Accelerator (butterfly- switch)

14 Multifunction tiller

15 Front panel

16 Chassis with mast

17 Protective screen

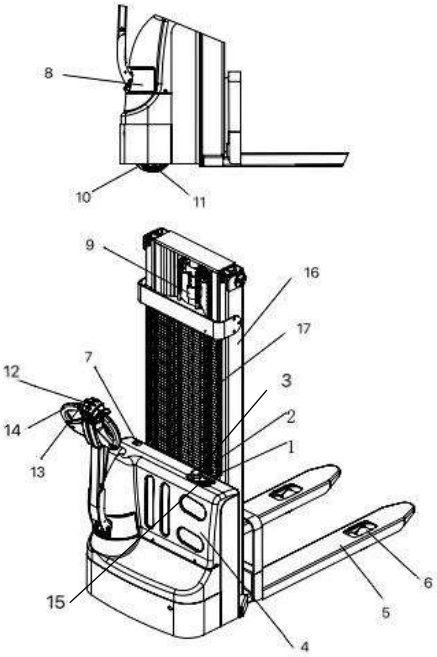


Fig. 2.a: Overview main components

b. Main technical data

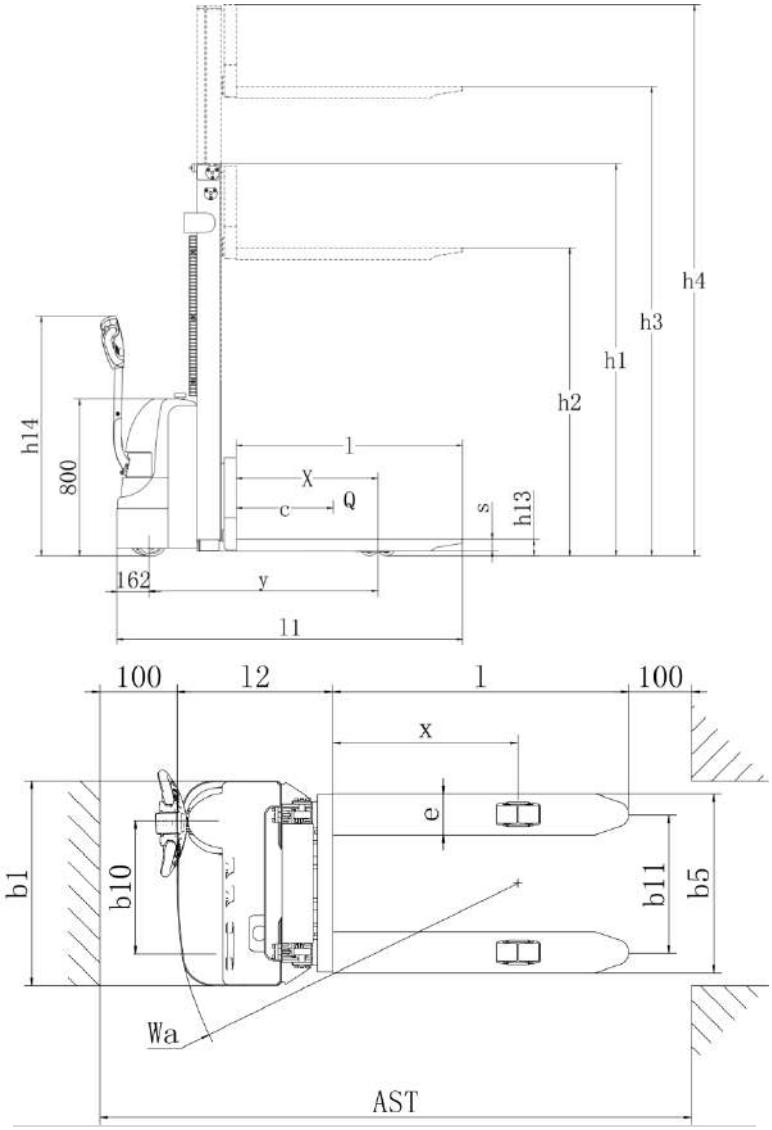


Fig. 2.b: Technical data

Table 2.b: Main technical data for standard version

Model		CL1016JD	CL1020J	CL1025J	CL1030J	CL1035J
Load capacity	Kg	1000				
Load capacity on Max. Height	Kg	1000	800	800	700	600
The max. lifting height	mm	1600	2000	2500	3000	3500
Load center distance	mm	600				
Fork length	mm	1150				
Single fork width	mm	160				
Two fork outside width	mm	570/695				
Lowerest fork height	mm	86				
Length of fixed leg	mm	928				
Width of single fixed leg(including front wheel frame)	mm	124				
Inner width of two fixed leg	mm	262/387				
Outer width of two fixed leg	mm	534/659				
Aisle width for pallets	mm	2074				

1000×1200 crossways						
Aisle width for pallets 800×1200 lengthways	mm	2040				
Turning radius	mm	1336				
Front wheel size, number		ϕ80×70、4				
Rear wheel size, number		ϕ210×70、1				
Balance wheel size, number		ϕ115×58、1				
Total length	mm	1755				
Total width	mm	795				
Extended mast height	mm	2424	2424	2924	3424	3924
Lowered mast height	mm	1994	1494	1744	1994	2244
Battery voltage (dimensions)	mm	2×12V/100AH（260/169/215）				
The controller		24V/90A				
The charger		24V/10A				
Lifting Motor		2.2kw. Lift speed：laden/unladen：100/155mm/s；decline speed：laden/unladen：150/130mm/s				
Driving Motor		0.75kg. Driving speed：laden/unladen 4/4.2km/h				
Weight	Kg	425	441	445	465	485

c. Description of the safety devices and warning labels

- Crane hook label
- Warning decal: Do not step under or on the forks
- Load capacity curve sticker
- Sticker to read and follow these instructions
- ‘No passengers’ decal
- Identification plate (ID-plate)
- (3) Emergency button
- (12) Safety (belly) button

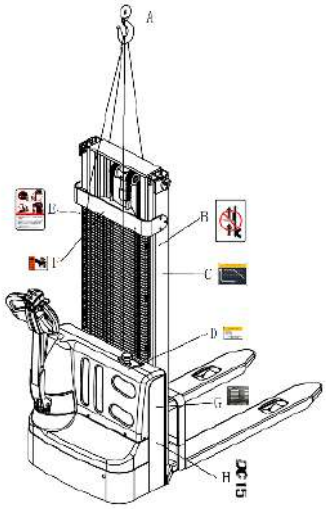


Fig.2.c: Safety and warning labels

The truck has an emergency button (3) which stops all lifting-, lowering-, driving-functions and engages the failsafe electromagnetic brake when it is pushed. By pulling this button, the truck can be operated after the controller checked the functions. Before operating, insert the key and turn the switch (1) clockwise. To prevent against unauthorized access, turn the key anti-clockwise and remove it, if you not operate this truck. The truck is equipped with a safety (belly) button (12) which switches the driving function away from the operator, if the truck travels towards the operator and the tiller is activated in the tillers operating zone. Follow also the instructions given on the decals. Replace the decals if they are damaged or missing.

d. Identification Plate

1	Brand	7	Battery Voltage in V
2	Model Number	8	Service Weight with Battery in KG
3	Maximum Lifting Height in mm	9	Attachment Type
4	Fork Length in mm	10	Load Centre Distance in mm
5	Date of Manufacture	11	Lift Height in mm
6	Serial number	12	Capacity at different height in mm when mast is vertical

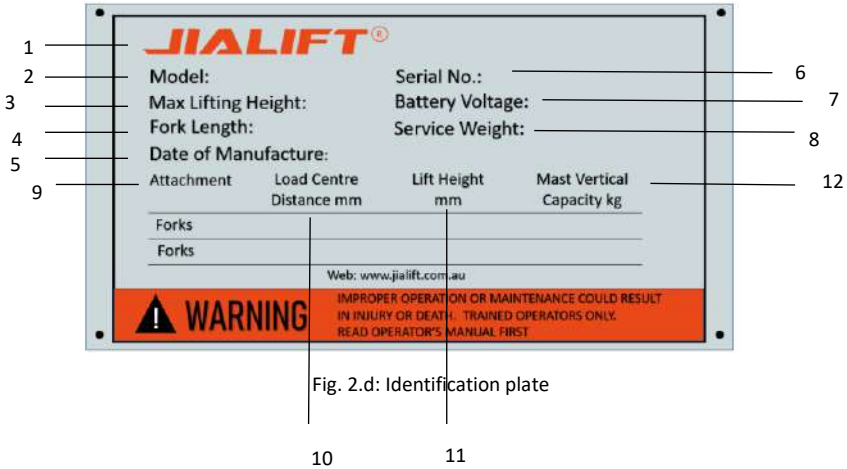


Fig. 2.d: Identification plate

3. WARNINGS, RESIDUAL RISK AND SAFETY INSTRUCTIONS

DO NOT

- Drive outside the stacking operation with a lifted load higher than the lifting point.
- Put foot or hand under or into the lifting mechanism.
- Allow other person than the operator to stand in front of or behind the truck when it is moving or lifting/lowering.

- Overload the truck.
- Put foot in front of the wheels, injury could result.
- Lift people. People could fall and suffer severe injury.
- Push or pull loads.
- Use this truck on ramps.
- Use the truck without a removed protective screen (fig.2.a, pos. 17 iron guarding).
- Side or end load. Load must be distributed evenly on the forks.
- Use the truck with unstable, unbalanced not stable load.
- Use truck without manufacturer's written consent.
- Supply on board charger with AC voltage other than 110V or 220V.

Watch difference in floor levels when driving. Load could fall or the truck could get uncontrollable. Keep watching the condition of load. Stop operating the truck if load becomes unstable. Brake the truck and activate the emergency button (3) by pushing when sliding load on or off the truck. If the truck has any malfunctions, follow chapter 6.h. Practice maintenance work according to regular inspection. This truck is not designed to be water resistant. Use the truck under dry condition. Prolonged continuous operation might cause damage of the power pack. Stop operation if temperature of hydraulic oil is too high.

- When operating the truck, the operator must wear safety shoes.
- The truck is intended to be used for indoor applications with ambient temperatures between +5°C and + 40°C.
- The operating lighting must be minimum 50 Lux.
- It is not allowed to use the truck on ramps.
- To prevent unintended sudden movements when not operating the truck (i.e., from another person, etc.) switch of the truck and remove the key.

4. COMMISSIONING, TRANSPORTING, DECOMMISSIONING

a. Commissioning

Table 2: Commissioning data

Model	CL1016J	CL1020J	CL1025J	CL1030J	CL1035J
Service Weight with Battery [kg]	425	441	445	465	485
Max Lift Height [mm]	1600	2000	2500	3000	3500

After receiving our walkie stacker or for re-commissioning you should do following before (firstly) operating the truck:

- Check if are all parts included and not damaged
- Eventually installation and charging the batteries (follow chapter 7)
- Do the work according to the daily inspections as well as functional checks.

b. Lifting/ transportation

For transporting, remove the load, lower the forks to the lowest position and fix the truck safe with dedicated lifting gear according to the following figures.

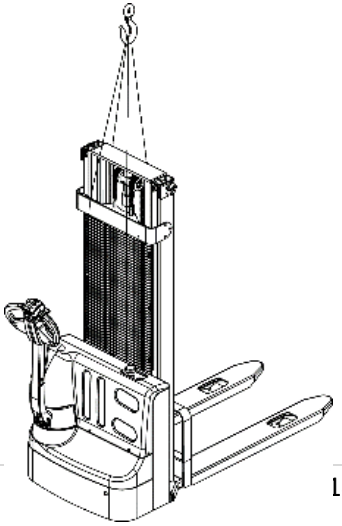


Fig. 4.b: Lifting with a crane

Lifting

USE DEDICATED CRANE AND LIFTING EQUIPMENT
DO NOT STAND UNDER THE SWAYING LOAD
DO NOT WALK INTO THE HAZARDOUS AREA DURING LIFTING

- Park the truck securely and lash the truck according to the points identified in fig. 4.b
- Lift the truck to its destination and place the truck securely before removing the lifting gear.

Transportation

DURING TRANSPORTATION ON A LORRY OR TRUCK ALWAYS FASTEN THE TRUCK SECURELY

- Lower the forks and park the truck securely. Fasten the truck according to fig. 4.c by fixing dedicated lashing belts at both sides each 2 pc of the trucks upper mast traverse and fasten the other side at the transporting truck.

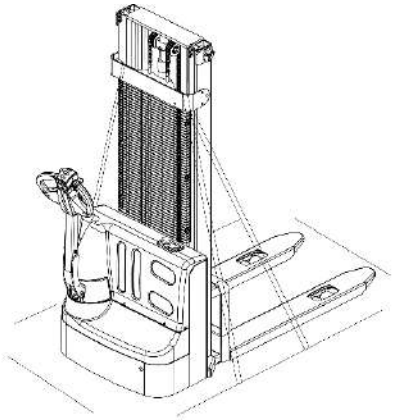


Fig. 4.c: Fixing points

c. Decommissioning

For storage, remove the load, lower the truck to the lowest position, grease all in this handbook mentioned greasing points (regular inspection), eventual protect the truck against corrosion and dust. Remove the batteries and jack the truck safety, so that there will be no flattening after storage.

For final decommissioning hand the truck to a designated recycling company. Oil, batteries, and electric components must be recycled due to legal regulations.

5. DAILY INSPECTION

This chapter describes pre-shift checks before putting the truck into operation.

Daily inspection is effective to find the malfunction or fault on this truck. Check the truck on the following points before operation.

Remove load from truck and lower the forks.
DO NOT USE THE TRUCK IF ANY MALFUNCTION IS FOUND.

- Check for scratches, deformation, or cracks.
- Check if there is any oil leakage from the cylinder.
- Check the vertical creep of the truck.
- Check the chain and rollers for damages or corrosion.
- Check the smooth movement of the wheels.
- Check the function of the emergency brake by activating the emergency button.
- Check, the tiller arm- switch braking function
- Check the lifting and lowering functions by operating the buttons.
- Check if the protective screen has no damages and that is correctly assembled.
- Check the audio warning signal.
- Check if all bolts and nuts are tightened firmly.
- Check the function of the key switch.
- Check the speed limitation switch.

- Visual check if there are any broken hoses or broken electric wires.
- If supplied with a backrest extension, check it for damages and correct assembling.

6. OPERATING INSTRUCTIONS

BEFORE OPERATING THIS TRUCK, PLEASE FOLLOW THE WARNINGS AND SAFETY INSTRUCTIONS (CHAPTER 3).
BEFORE OPERATING THIS TRUCK, ENSURE THAT THE LOAD OR OTHER EQUIPMENT NOT CAUSES INSUFFICIENT VISIBILITY!

- Make sure, that the load is palletized and stable and that the daily inspection is carried out. For starting, insert the
- key and turn it clockwise to the “ON”- position. The key can be only used on pedestrian-controlled power stacker. Eventually before inserting the key, the emergency button must be pulled carefully.
- Press the horn button (4) in Fig.6 to activate the audible warning signal.

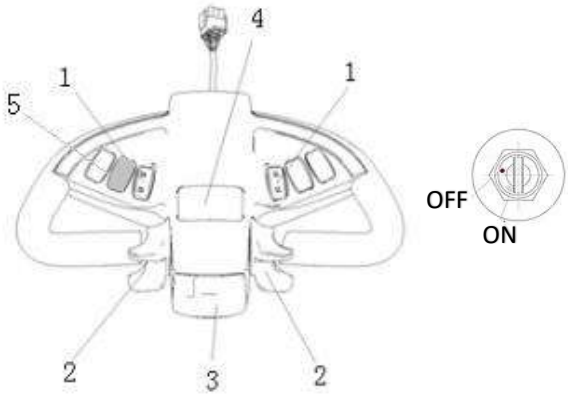


Fig. 6: Tiller operating controls & Key switch

a. Parking

DO NOT PARK THE WALKIE STACKER ON INCLINED SURFACES

The truck is equipped with an electromagnetic failsafe stopping and parking brake. Always lower the forks fully and drive the truck to a safe area. Turn the key anti-clockwise to the “Off” - position and remove the key.

b. Capacity Chart

The capacity chart indicates the maximum capacity Q [kg] for a given load centre c [mm] and the corresponding lift height H [mm] for the truck with horizontal load. The white markings on the mast indicate if the specific lifting limits reached.

For example, with a load centre of gravity distance c of 600 mm and a maximum lift height H of 3000 mm, the max. capacity Q is 750 kg.

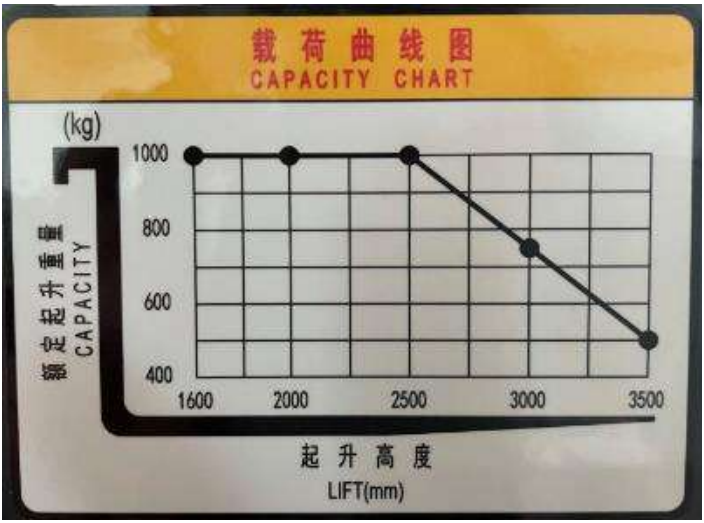


Fig. 6.b: Capacity Chart

c. Lifting

DO NOT OVERLOAD THE TRUCK! THE MAXIMUM CAPACITY IS 1000 kg. LIFT ONLY CAPACITIES ACCORDING TO THE CAPACITY CHART
Travel with the lowered forks fully underneath the pallet and press the lifting button (1) in Fig.6 until you reached the desired lifting height.

d. Lowering

- If the forks are in the racking, firstly travel out of the racking carefully with or without the pallet.
- Press the lowering button (1) in Fig.6 carefully.
- Lower the load until the forks are clear of the pallet, then drive the truck carefully out of the load unit.

e. Travelling

TRAVEL ON INCLINES ONLY WITH THE LOAD FACING UPHILL.
DO NOT TRAVEL ON INCLINES MORE THAN SPECIFIED WITH THE TECHNICAL DATA. TRAVELLING IS ONLY ALLOWED IF THE FORKS ARE LOWERED DOWN TO THE LIFTING POINT(<300MM).

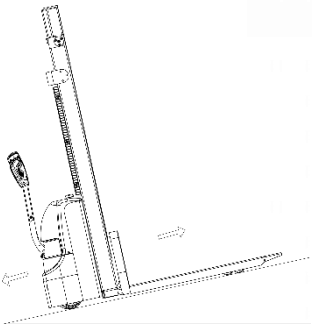


Fig. 6.e.1: Load facing uphill

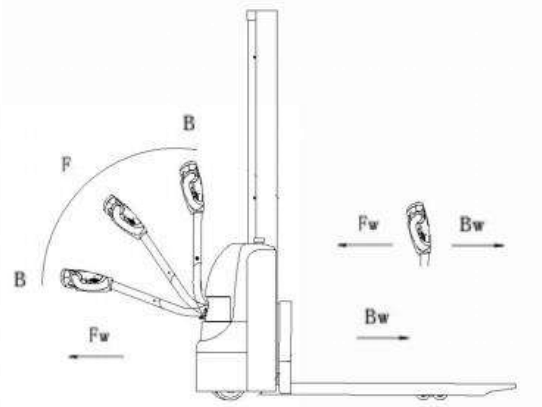


Fig. 6.e.2: Operating direction

- After starting the truck by turning the inserted key to the "ON"- position (fig. 6); and eventually by pulling the emergency button carefully), move the tiller to the operating zone ('F', fig.6.e.2).
- Turn the accelerator button to the desired direction forward 'Fw.' Or backwards 'Bw.'(fig .6.e.2).
- Control the travelling speed by moving the accelerator button (5) in Fig.6 carefully until you reached the desired speed.
- If you move the accelerator button back to the neutral position, the controller decelerates the truck until the truck stops. If the truck stopped, the parking brake will be engaged.
- Drive carefully the truck to the destination. Watch the route conditions and adjust the travelling speed with the accelerator- button.

f. Steering

You steer the truck by moving the tiller to the left or right side.

g. Braking

THE BRAKING PERFORMANCE DEPENDS ONT THE TRACK CONDITONS AND THE LOAD CONDITONS OF THE TRUCK
The braking function can be activated on several ways:

- By moving the accelerator button (5) in Fig.6 back to the initial '0' position or by releasing the button, the regenerative braking is activated. The truck brakes until it stops.

- By moving the accelerator button (5) in Fig.6 from one driving direction directly to the opposite direction, the truck brakes regenerative until it starts travelling into the opposite direction.

• The truck brakes, if the tiller is moved up or down to the braking zones (‘B’). If the tiller is released, the tiller moves automatically up to the upper baking zone (‘B’). The truck brakes until it stops.

• The safety (belly) button (3) in Fig.6 prevents the operator from being crushed. If this button is activated, the truck decelerates and/ or starts travelling into the backwards direction (‘Bw.’) for a short distance and stops. Please consider, that this button also operates, if the truck is not travelling and the tiller is in the operating zone.

h. Malfunctions

If there are any malfunctions or the truck is inoperative, please stop using the truck and activate the emergency button (3) in Fig. 2.a by pushing it down. If possible, park the truck on a safe area, turn the key switch (1) in Fig.2.a anti- clockwise and remove the key.

Inform immediately the manager and, or call your service. If necessary, tow the truck out of the operating area by using dedicated lifting equipment.

i. Emergency

In emergencies, push the emergency button (3) in Fig. 2.a. All electrical functions will be stopped. Keep safe distance.

7. BATTERY CHARGING AND REPLACEMENT

• Only qualified personnel are allowed to service or charge the batteries. The instructions of this handbook and from the battery-manufacturer must be observed.
• These batteries are maintenance free; re- filling is prohibited.
• Recycling of batteries undergoes national regulations. Please follow these regulations.
• By handling batteries, open fire is prohibited, gases could cause explosion!

• In the area of battery charging neither burning materials nor burning liquids are allowed. Smoking is prohibited and the area must be ventilated.
• Park the truck securely before starting charging or installing/changing the batteries
• Before finishing the maintenance work, make sure, that all cables are connected correctly and that there is no disturbing towards other components of the truck.

The truck is equipped with following sealed liquid acid batteries:
• 2 pc 12V/ 80Ah(C5)
• Optional: 2 pc 12V/ 100Ah

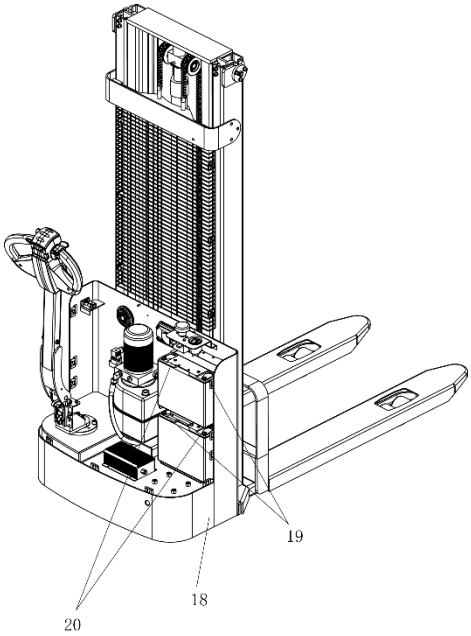


Fig. 7: Battery replacement

IT IS ONLY ALLOWED TO USE SEALED LIQUID ACID BATTERIES.
THE WEIGHT OF THE BATTERIES HAS AN INFLUENCE TO THE TRUCKS OPERATING BEHAVIOR.
PLEASE CONSIDER THE MAXIMUM OPERATING TEMPERATURE OF THE BATTERIES.

a. Replacement

Park the truck securely and switch off the stacker with the key (1) in Fig. 2.a and activate the emergency button (3) in Fig. 2.a. Unbolt the 2 screws on the main cover and remove the cover. Unbolt the screws of the negative terminals (indicated with '- ') firstly, then unbolt the screws of the positive terminals (indicated with '+') and put the cables aside.

Unbolt the batteries fixing bars and remove these (fig. 7.a). Remove the batteries carefully by observing not to hit the upper electrical instruments board or the upside oil tank. The installation is in the reverse order of the removal. Please connect the positive terminals firstly. Otherwise, the tuck could be damaged.

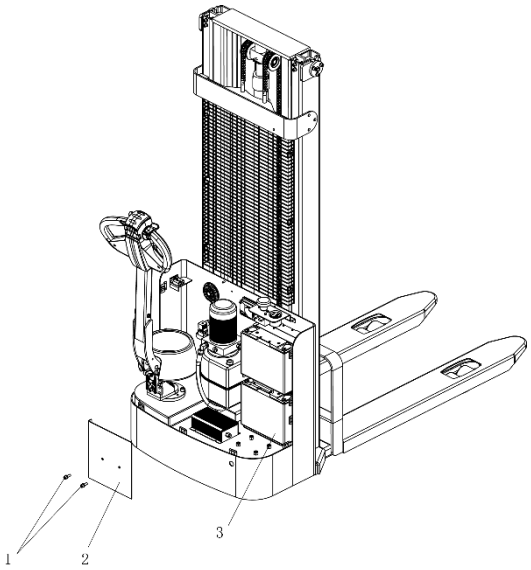


Fig. 7.a: Preparation to replace the batteries

b. Battery Indicator

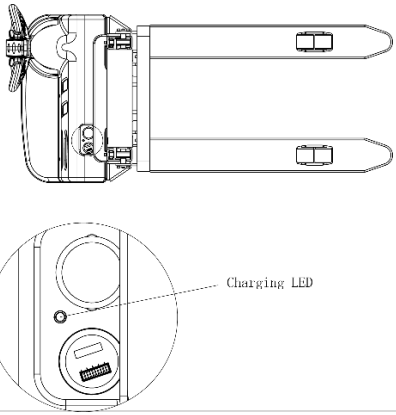
Battery power display table: ten articles showing represent 100% of the battery. With the consumption of battery capacity, the glowing article shows will be from top to down.

The colour of LED show the different states：

Name	LED Color	Remaining
Standard battery remaining power	Green	70-100%
	Orange	30-60%
	Red blinking	0-20%

Battery discharge on 70%, red lamp will be blinking “Energy storage”. Battery discharge on 80%, two lamps will be blinking “run out of battery”, Need to charge the accumulator.

Fig. 7.b Battery discharge indicator



c. Charging

- The attached automatic charger is only available for the optional voltage of 110V or 230V as referred.
- The room, where you are charging must be ventilated.
- The exactly charge status can be only checked from the discharge indicator. To control the status, the charging must be interrupted and the truck must be started.

Park the truck at a dedicated secured area with a dedicated power supply. Lower the forks and remove the load.
Switch the truck off and connect the main power connector (7) in Fig. 2.a to the power supply. The charger starts charging the battery. Charging is finished until the charging LED produces permanent green light. The charger then goes into a floating mode to prevent the battery against damages. When charging is finished, disconnect the connector from the socket and place it in the designated pocket.

8. REGULAR MAINTENANCE

- Only qualified and trained personnel are allowed to do maintenance on this truck.
- Before maintaining, remove the load and lower the forks to the lowest position.
- If you need to lift the truck, follow chapter 4 by using designated lashing or jacking equipment. Before working, put safety devices (for instance designated lift jacks, wedges, or wooden blocks) under the truck to protect against accidental lowering, movement or slipping.
- Please pay attention by maintain the tiller arm. The gas pressure spring is pre-loaded by compression. Carelessness can cause injury.
- Use approved and from your dealer released original spare parts.
- Please consider that oil leakage of hydraulic fluid can cause failures and accidents.

- It is allowed to adjust the pressure valve only from trained service technicians.
- If you need to change the wheels, please follow the instructions above. The castors must be round and they should have no abnormal abrasion.

Check the items emphasized maintenance checklist.

a. Maintenance checklist

	Maintenance checklist	Interval (Month)			
		1	3	6	12
	Hydraulic				
1	Check the hydraulic cylinder, piston for damage noise and leakage		•		
2	Check the hydraulic joints and hose for damage and leakage		•		
3	Inspect the hydraulic oil level, refill if necessary		•		
4	Refill the hydraulic oil (12 month or 1500 working hours)				•
5	Check and adjust the function of the pressure valve (1000 kg +0/ +10%)				•
	Mechanical system				
6	Inspect the forks for deformation and cracks		•		
7	Check the chassis for deformation and cracks		•		
8	Check if all screws are fixed		•		
9	Check mast and chain for corrosion, deformation, or damages, replace if	•			
10	Check the gearbox for noise and leakage		•		
11	Check the wheels for deformation and damages, replace if necessary		•		
12	Lubricate the steering bearing				•
13	Inspect and lubricate the pivot points		•		
14	Lubricate the grease nipples	•			
15	Replace the guarding and/or protective screen if it is damaged	•			
	Electric system				
16	Inspect the electric wiring for damage		•		
17	Check the electric connections and terminals		•		

18	Test the Emergency switch function		•		
19	Check the electric drive motor for noise and damages		•		
20	Test the display		•		
21	Check if correct fuses are used, if necessary, replace.		•		
22	Test the audio warning signal		•		
23	Check the contactors		•		
24	Check the frame leakage (insulation test)		•		
25	Check function and wear of the accelerator		•		
26	Check the electrical system of the drive motor		•		
	Braking system				
27	Check brake performance, if necessary, replace the brake disc or adjust		•		
	Battery				
28	Check the battery voltage		•		
29	Clean and grease the terminals and check for corrosion and damage		•		
30	Check the battery housing for damages		•		
	Charger				
31	Check the main power cable for damages			•	
32	Check the start-up protection during charging			•	
	Function				
33	Test the audio warning signal	•			
34	Check the air gap of the electromagnetic brake	•			
35	Test the emergency braking	•			
36	Test the reverse and regenerative braking	•			
37	Test the safety (belly) button function	•			
38	Check the steering function	•			
39	Check the lifting and lowering function	•			
40	Check the tiller arm switch function	•			
41	Test the key switch of damages and function	•			
42	Test the speed limitation switch (lifting height >~300mm)	•			
	General				

43	Check if all decals are legible and complete	•			
44	Check if the protective screen and or guarding is not damaged	•			
45	Inspect the castor, adjust the height, or replace it, if worn out		•		
46	Carry out a test run	•			

b. Lubricating points

Lubricate the marked points according to the maintenance checklist.
The required grease specification is: DIN 51825, standard grease.

1 Bearings in wheels

2 Main frame posts

3 Chain

4 Hydraulic system

5 Steering bearing

6 Gear box

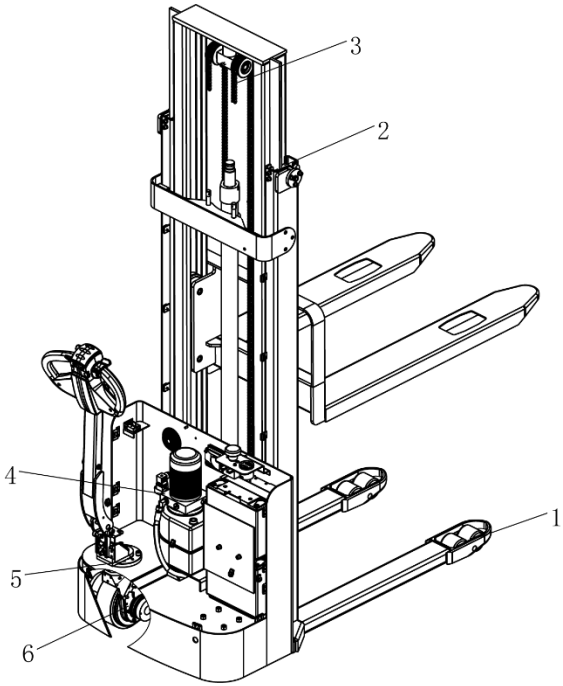


Fig.8.b: Lubricating points

c. Check and refill hydraulic oil

The required hydraulic fluid- type is

- H-LP 46, DIN 51524
- Viscosity is 41.4 - 47
- Depending on the type, and check with oil level meter.

Waste material like oil, used batteries or other must be probably disposed and recycled according to the national regulations and if necessary, brought to a recycling company.

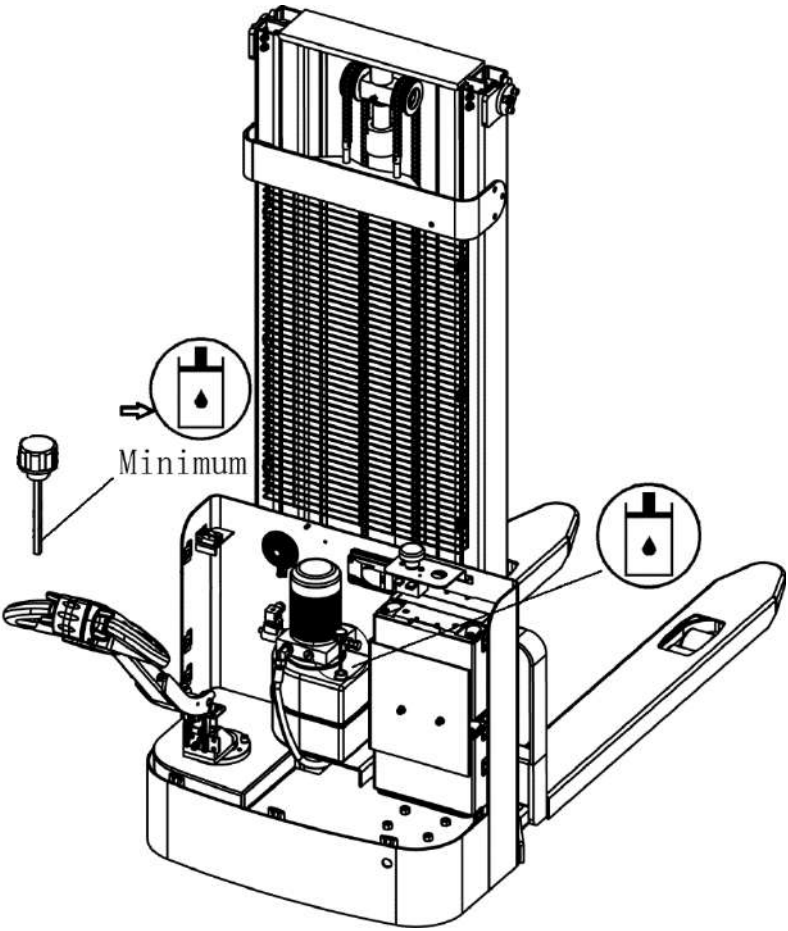


Fig.8.c: Oil level

d. Checking electrical fuses

Remove the main cover. The fuses are located according to fig.8.d; the size is according to the table below.

Size of the fuses	Rate
FU1	150A
FU2	10A

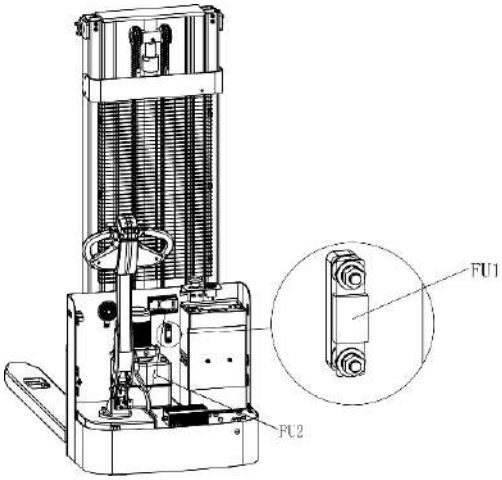


Fig.8.d: Location fuses

e. Removing, reattaching guarding

DO NOT USE THIUS TRUCK, IF THE GUARDING IS DAMAGED OR NOT CORRECTLY ASSEMBLED!

If the guarding needs to be removed, unbolt the fixing screws, and remove the screen carefully. The screws will remain with the screen. For reattaching place, the screen to the right position and fix each screw correctly. If you need to replace parts, please call your next service partner

9. TROUBLE SHOOTING

If the truck has malfunctions follow the instructions, mentioned in chapter 6.

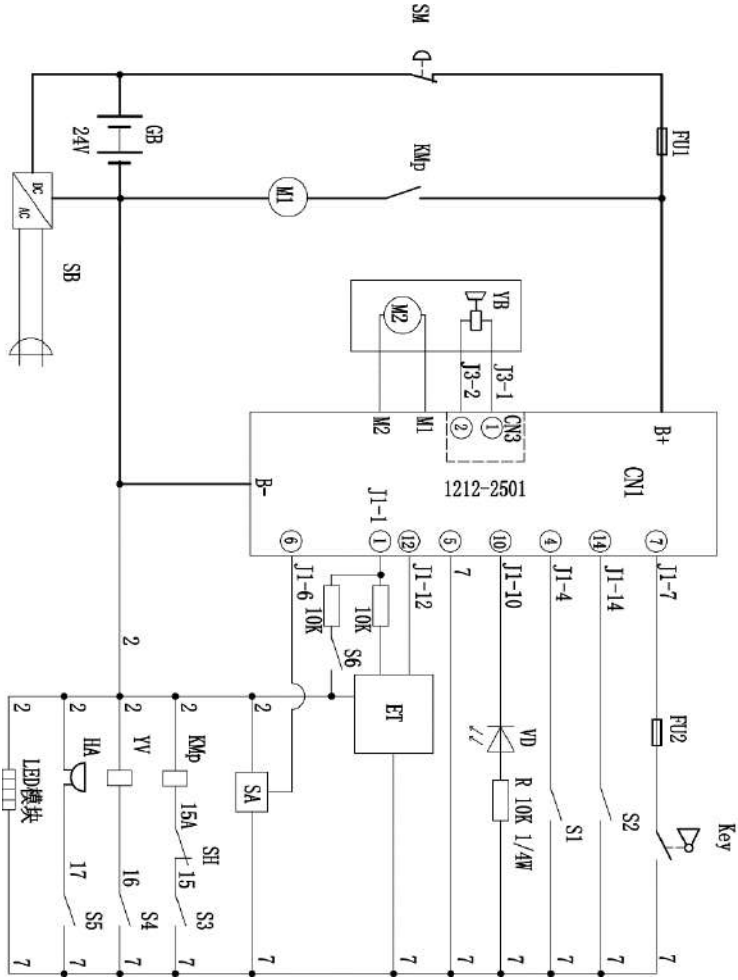
TROUBLE	CAUSE	REPAIR
Load can't be lifted	Load weight too high	Lift only the max. capacity, mentioned on the ID-plate
	Battery discharged	Charge the battery
	Lifting fuse faulty	Check and eventually replace the lifting fuse
	Hydraulic oil level too low	Check and eventually refill hydraulic oil
	Oil leakage	Repair the hoses and/or the sealing of the cylinder
Oil leakage from air breathing	Excessive quantity of oil.	Reduce oil quantity.
Load can't be lowered	Dirty oil blocks control valve.	Check hydraulic oil and clean control valve. Replace the oil if necessary.
	The solenoid valve for lowering is not opened or is damaged.	Check or replace the valve for lowering.
Stacker not starts operating	Battery is charging	Charge the battery completely and then remove the main power plug form the electrical socket.
	Battery not connected	Connect the battery correctly
	The fuse is faulty	Check and eventually replace fuses
	Battery discharged	Charge the battery

	Combined emergency switch is activated	De-activate the combined emergency switch by insert and pull the knob.
	Tiller in the operating zone	Move the tiller firstly to the braking zone.
Only travelling in one direction	The accelerator and the connections are damaged.	Check the accelerator and the connections.
The stacker only travels very slowly	The battery is discharged.	Check the battery status at the discharge indicator
	The electromagnetic brake is engaged.	Check the electromagnetic brake
	The relating tiller cables are disconnected or damaged	Check the tiller cables and connections.
The stacker starts up suddenly	The controller is damaged.	Replace the controller.
	The accelerator not moves back to its neutral position.	Repair or replace the accelerator.

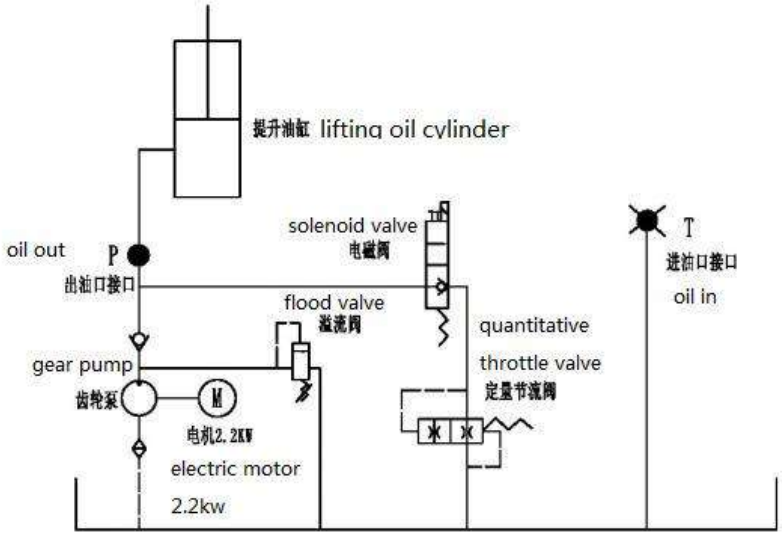
If the truck has malfunctions and can't be operated out of the working zone, jack the truck up and go with a load handler under the truck and safe the truck securely. Then move the truck out of the aisle.

10. WIRING/ CIRCUIT DIAGRAM

a. Electrical circuit diagram



b. Hydraulic circuit



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