

2025

Operation Instruction Electric Walkie Stacker US-ES-33K 138



TEXLIFT

1/1/2025

Preface:

Before operating this stacker, please read this manual carefully and fully understand how to use it. Improper operation may cause danger.

This manual describes the use and operation of different types of pallet stackers. When repairing a stacker, make sure it matches your company's model. Keep it for future use. If this manual or warning / caution labels are damaged or lost, please contact your local dealer for a replacement.

This stacker truck complies with EN The requirements of ISO 3691-1 (Industrial Trucks - Safety requirements and verification, Part 1), EN 12895 (Industrial Trucks - Electromagnetic compatibility), EN 12053 (Safety of Industrial Trucks - Test methods for measuring noise emissions), and EN 1175-1 (Industrial Trucks - Safety - Electrical requirements) must be met to ensure that the truck is used for the above purposes. According to EN 12053, the noise level at the driver's ear is less than 70 dB(A).

Notice:

- Hazardous wastes that are 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 they are not properly handled.
- Negative impact on human health.
- Waste packaging should be placed in solid waste bins according to material classification and collected and processed by the local environmental protection bureau.
- Pollution, littering is prohibited.
- To avoid oil leakage when using the product, users should prepare some absorbent materials (waste wood chips or dry rags) to
- Absorb the leaked oil. To avoid secondary pollution of the environment, used absorbent material should be handed over to a specialist department in accordance with local authority regulations.
- Our products are constantly being improved. Since this manual is only for the purpose of operating / maintaining the forklift, this manual cannot guarantee any
- Please understand the special circumstances.

Note: In this manual, the symbols on the left indicate warnings and dangers that, if not followed, could result in death or serious injury.

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1. Correct Use

May only be used in accordance with this instruction manual.

The stacker described in this manual is a self-propelled, pedestrian-type pallet stacker with electrically operated height control. This stacker is designed to lift, lower and transport rack-mounted loads.

Improper use may result in personal injury or machine damage.

The operator / operating company is responsible for ensuring correct use and ensuring that the stacker is only operated by personnel who have been trained and authorized to use the stacker.

This stacker truck needs to be used on a firm, flat, intact and suitable surface. This truck is designed to 41°F to 104°F room temperature for indoor use and light loads that do not need to cross permanent obstacles or pits. Operation on slopes is prohibited. The cargo must be placed approximately at the load center of the stacker.

It is strictly forbidden to lift or transport people. If transported, the goods must be lowered to the lifting point.

Do not use this stacker on a tailgate or loading ramp.

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

Change

modifications that may affect the stacker's rated load, stability or safe operation must be authorized by the stacker manufacturer or its Written approval by the manufacturer or its successor. This includes the effects of changes such as: braking, steering, visibility and the addition of removable accessories.

When modifications or changes are approved by the manufacturer or its successor, the capacity plates, labels, identification markings, operation and maintenance manuals shall be changed accordingly. Failure to follow these instructions will result in stacker damage voiding the warranty.

2. Stacker Overview

a. Overview of main components

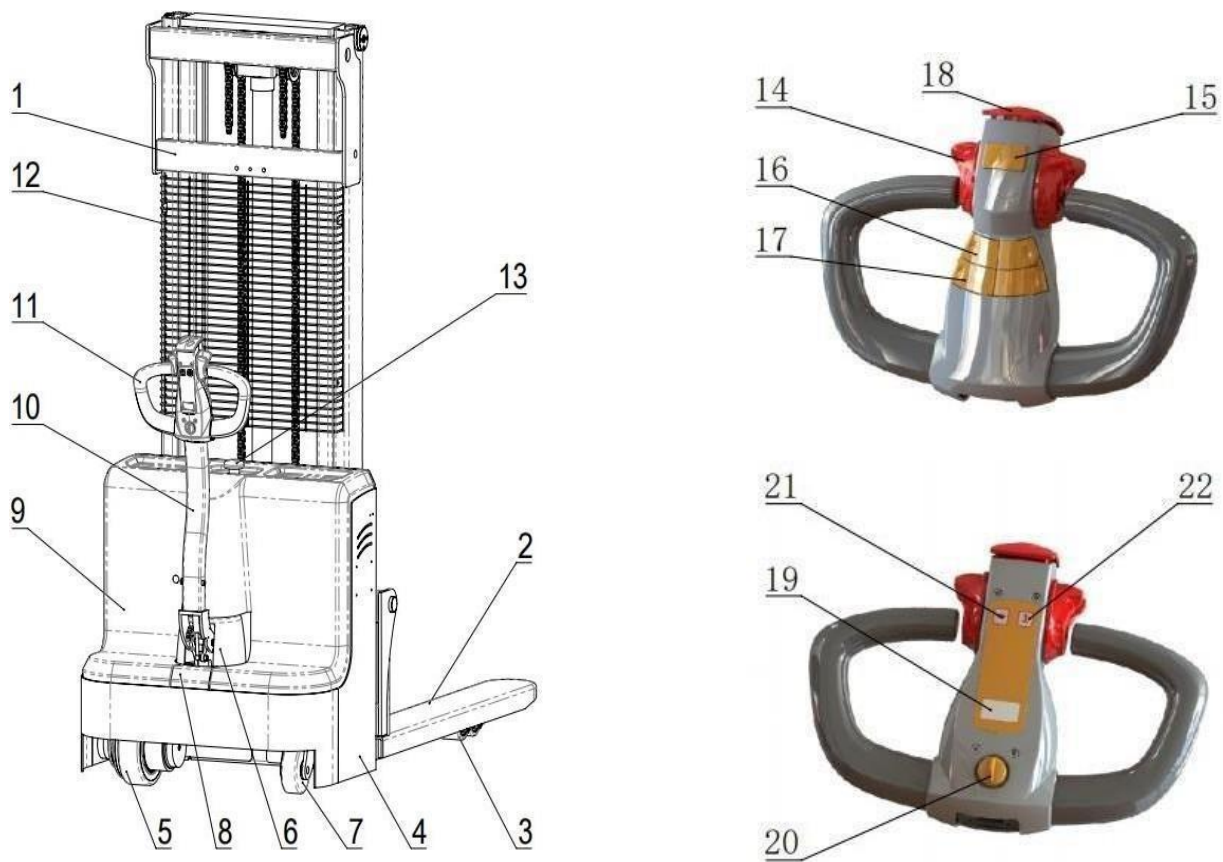


Fig. 1 Main components

- | | | |
|--------------------------------|---|----------------------------|
| 1. Mast assembly | 10. Steering column assembly | 19. Electricity meter |
| 2. Fork assembly | 11. Handle assembly | 20. Key switch |
| 3. Load-bearing wheel assembly | 12. Guard net assembly | 21. Turtle speed switch |
| 4. Body assembly | 13. Emergency power off switch | 22. Upright walking button |
| 5. Driving wheel assembly | 14. Accelerator (controls the front and rear movement of the stacker) | |
| 6. Small cover | 15. Horn button | |
| 7. Balance wheel assembly | 16. Up button | |
| 8. Shell cover | 17. Down button | |
| 9. Large cover | 18. Belly switch (emergency reverse) | |

Main Technical parameters

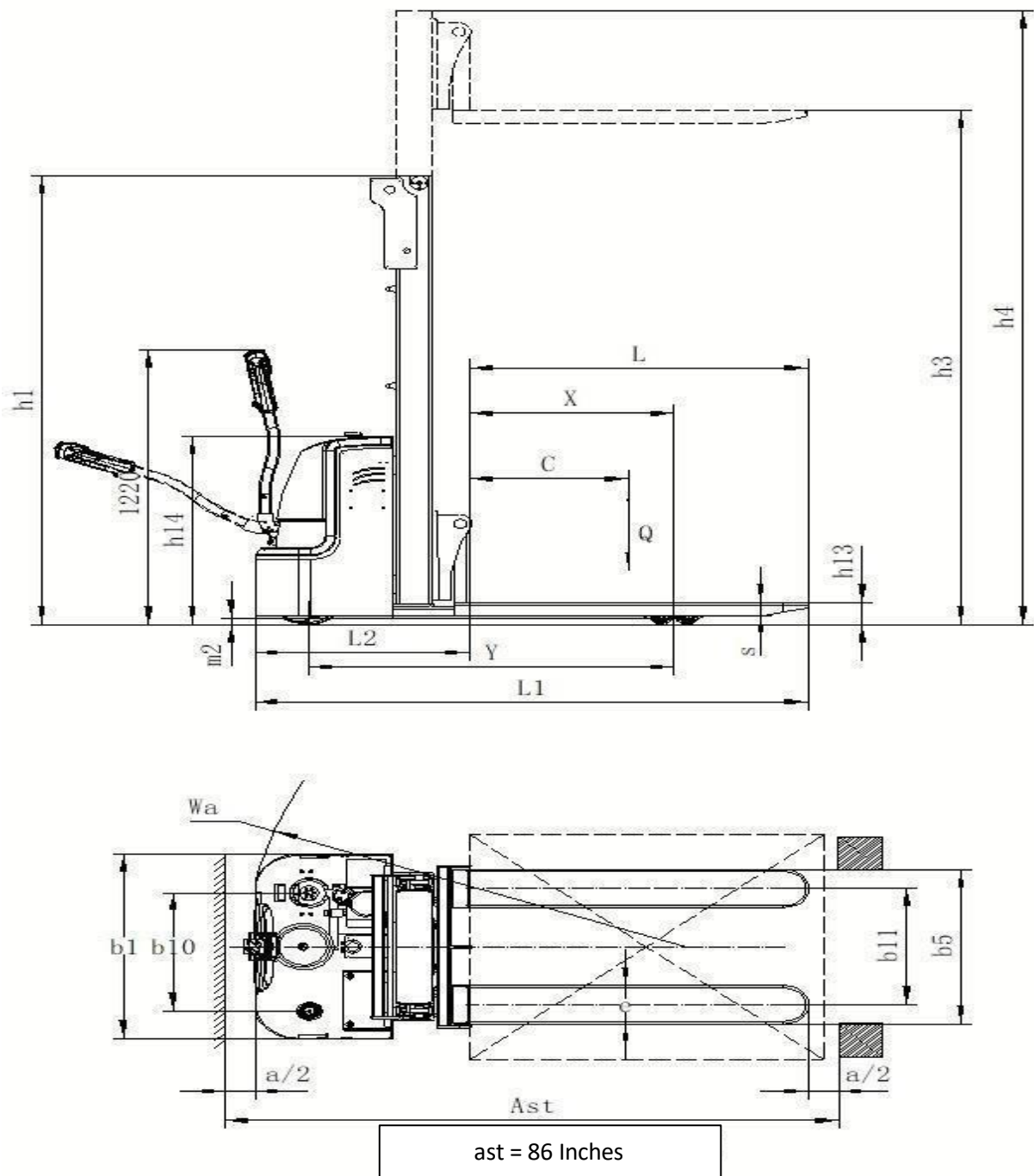


Fig. 2 Technical Parameter

Table 1: Main technical parameters of the standard version

according toVDI 2198 Table of standard industrial stacker types.

Characteristic	1.2	Model		US-ES-33K138	
				24v / 48v	
	1.3	Power (electric, diesel, gasoline, LPG, electrical)		Electric	
	1.4	Driving mode (manual, walking, standing, sitting Type, Pick Type)		Walkie	
	1.5	Rated load capacity	Q (LBS)	3300	
	1.6	Load center distance	c (in)	20	
	1.8	Front overhang	x(in)	27	
	1.9	Wheelbase	Y (in)	49	
Weight	2.1	Weight (including battery)	LBS	1260	1240
wheels	3.1	Tires (rubber wheels, high performance elastomers, pneumatic wheels, polyamide Ester wheel)		Polyurethane wheel	
	3.2	Wheel size drive side	Øx w (in)	Φ8.3 x 2.8/6.3x2.2	
	3.3	Wheel size load-bearing side	Øx w (in)	Φ 3.1 x 2.8	
	3.4	Steering wheel size	Øx w (in)	Φ4.9 x 2.0	
	3.5	Number of wheels (x = drive wheels) drive side / load side		1 x + 1 / 4	
	3.6	Wheelbase (front) Drive side	b 1 0 (in)	21	
	3.7	Wheelbase (rear) Load-bearing side	b 1 1 (in)	16/20	
Size	4.2	Mast height when lowered	h 1 (in)	89	
	4.3	Free lifting height	h 2 (in)	2	
	4.4	promote	h 3 (in)	138	
	4.5	Mast extendable height	h 4 (in)	154	
	4.9	handle in lowest / highest position	h 14 (in)	31/ 48	
	4.15	Lowered height	h 1 3 (in)	89	
	4.19	Overall length	l 1 (in)	74	
	4.20	Length from fork surface	l 2 (in)	29	
	4.21	Overall width	b 1 (in)	31	
	4.22	Fork size	s / e / l (in)	2.4 / 6.7/ 45	
	4.25	Fork outer width	b 5 (in)	22 / 27	
	4.32	Minimum ground clearance	m 2 (in)	1.2	
	4.33	Aisle width 1000x1200 fork placement	ast (in)	86	
	4.34	Aisle width 800 x 1200 along the forks	ast (in)	84	
	4.35	Turning Radius	Wa (in)	59	
Performance	5.1	Travel speed full load / empty load	mph	2.4/ 2.2	
	5.2	Lifting speed full load / no load	in / s	3.9/ 4.7	
	5.3	Lowering speed full load / no load	in / s	3.5/ 3.3	
	5.8	Maximum climbing capacity full load / no load	%	3/5	
	5.10	Service brake		Electromagnetic brake	

Motor	6.2	Increase motor power S3 7.5%	KW	22	
	6.3	Battery according to DIN 43531/35/36 A, B, C standard		no	
	6.4	Battery voltage, rated capacity K5	V / Ah	2 x 12 / 85 ¹⁾	48 / 32
	6.5	Battery weight	LBS	2 x 27	4x9
	6.6	Energy loss According to VDI cycle standard	kWh/h	0.8	
Other	7.1	Drive control method		AC speed control	
	7.2	Noise level at the driver's ear	dB(A)	<70	

1) Optional: 2x12V/100Ah

characteristic	Mast height when lowered h1(in)	Free lifting height h2(in)	Promote h3(in)	Mast extendable height h4 (in)
Single door frame	78	63	63	63
Two door Rack	68	2	98	117
	78	2	118	137
	88	2	138	156

a. Description of safety devices and warning Labels

This stacker truck has an emergency stop switch (13) that stops all lifting, The descending and driving functions can also make the electromagnetic brake ineffective. After the function of the device is activated, pull out the switch to operate the stacker.

The stacker is equipped with a belly switch (18) which activates the operator's movement when the stacker is moving towards the operator. As long as the belly switch is touched within the operating range of the handle, the stacker can be driven away from the operator. Also follow the instructions on the label and replace it if it is damaged or missing.

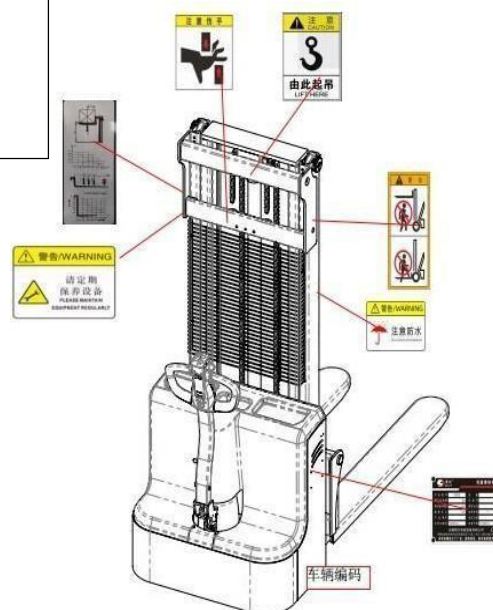


Figure 3: Safety devices and warning labels

c. Nameplate

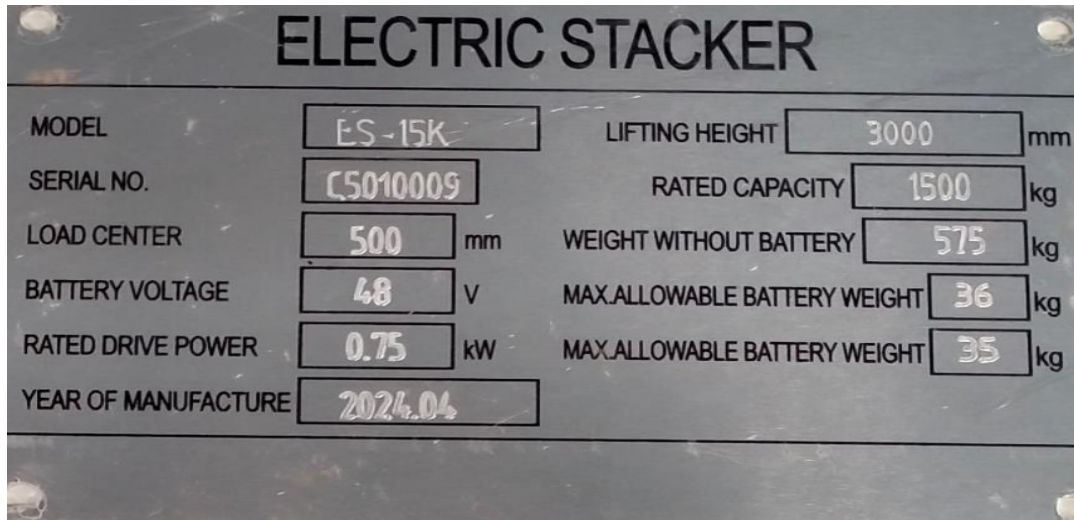


Fig. 4 Nameplate

The content of the nameplate format shall be subject to that posted on the equipment.

3. Warnings, residual risks and safety instructions

Do Not:

- When driving outdoors, stacking operations raise the height of goods above the lifting point
- Place your feet or hands under or inside the lifting mechanism
- Allow non operators to stand in front of or behind the forklift while the stacker is in motion or lifting/lowering
- Over load
- Placing your foot at the front end of the wheel may result in injury Elevate personnel, personnel may fall and cause serious injuries Push and pull goods
- Side loading or tail loading, the goods must be evenly distributed on the forks Using this stacker to load unstable and unbalanced cargo
- Provide AC voltage other than 110V required for car chargers

Observe different ground conditions while driving. The cargo may fall or the stacker may lose control. Check the load from time to time. If the cargo changes If the stacker becomes unstable, stop operating the stacker immediately. If the cargo slides on or off the stacker, brake the stacker immediately and press the emergency stop switch (20). If any malfunction occurs on the stacker, refer to Chapter 10. Perform maintenance work according to the regular inspection. This stacker is not waterproof, please use this stacker in a dry environment. Long-term continuous operation may damage the power box.

Please stop operating when the hydraulic oil temperature is too high.

- When operating this stacker, the operator needs to wear safety shoes
- This car is suitable for room temperature at 41°F to 104°F Indoor use between
- The operating lighting must be a minimum of 50 lux
- Do not operate the stacker on a slope
- Unexpected sudden movement of the stacker body when not in operation (e.g. caused by others, etc.), the stacker should be turned off when not in operation.
- The lifted cargo will become unstable due to the wind. Do not lift cargo in windy conditions.
- The lifted goods will affect the visibility. All necessary safety measures should be taken, and auxiliary tools can be used if necessary to ensure visibility

4. Commissioning, Transportation, shutdown

a. Test Drive

Table 2: Test data

Model	ES-33K	ES-33K
Packing weight [LBS]	1210	1190
Lifting height [in]	118/138	118/138

After receiving our new stacker or when re-commissioning is required, please operate the stacker forward (for the first time)

Follow these steps:

- Check that all parts are included and not damaged
- Battery installation and charging (refer to Chapter 8)
- Perform daily inspections and machine function checks

b. Lifting/ Transportation

When transporting, remove the cargo, lower the forks to the lowest and social lifting equipment according to Figure 5.

Lifting

Do not stand under swaying cargo
Do not enter the danger zone during lifting.

Park the stacker safely and tie down the stacker body according to the points shown in Figure 5. Lift the stacker to the destination and position the stacker securely before moving the lifting equipment. The tie-down points can be found in Figure 5.

Transportation

- The stacker needs to be securely fastened to the van or truck during transport.
- Lower the forks and park the stacker safely.
- As shown in Figure 6, use special binding straps for lifting to fix one side to the stacker body, fork and gantry, and the other side to the transport stacker.
- Remove the cargo and lower the stacker to the lowest position when storing. Grease all lubrication points mentioned in this manual (check regularly) to prevent rust and dust accumulation on the stacker. Remove the battery and check the safety equipment to ensure that the stacker is not squeezed after storage.

When the stacker is finally taken out of service, it is handed over to a designated recycling company. According to regulations, the oil, battery and electronic components must be recycled.

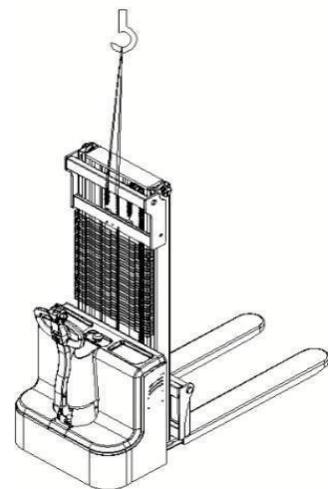


Figure 5

position,

5. Daily Inspection

This chapter describes the pre-work inspection that must be performed before operating the stacker.

Daily inspection can effectively detect faults or malfunctions of this stacker. The following points should be checked before operation.

Move the cargo away from the stacker body and lower the forks. If you find any faults, please stop using the stacker.

- Check for scratches, deformation or cracks. Check whether the cylinder is leaking.
- Check the longitudinal running condition of the stacker. Check the chain and rollers for damage or corrosion. Check that the wheels can move smoothly.
- Press the emergency stop button to check the emergency brake function. Check the brake function of the handlebar switch.
- Press the button to check the lifting and lowering function. Check the guard for damage and proper installation. Check the buzzer.
- Check that all bolts and nuts are tightened. Check the function of the push button switch. Check speed limit and travel limit switches.
- Visually inspect for any damaged fuel lines or wires.
- If the stacker is equipped with a sidecar, check it for damage and that it is properly installed.

6. Operating Instruction

Please follow the warnings and safety instructions before operating this stacker (see chapter). Before operating this stacker, ensure that cargo or other equipment will not cause limited visibility.

Ensure cargo is level and stably placed and perform daily checks.

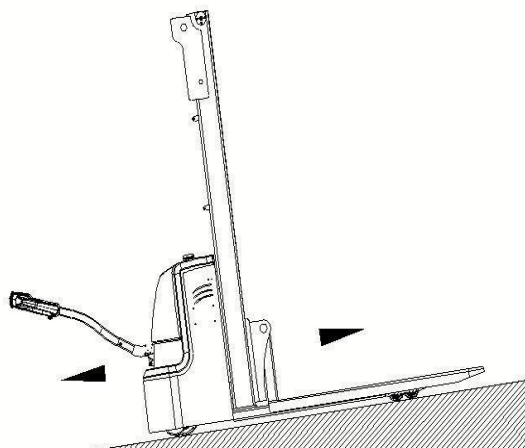


Fig. 6 Goods facing up

a. Parking

Do not park on an incline This stacker is equipped with an electromagnetic fail-safe parking and parking brake.

CDD E/M: Always fully lower the forks and drive the stacker to a safe area. Press the emergency stop switch (13).

b. Load curve diagram

The load curve diagram shows the load curve for a given load center c [in] and the corresponding lifting of stackers with horizontal loads

Maximum load capacity Q [LBS] at height h_3 [in].

The markings on the mast indicate the achievable lifting range.

For example, in Figure 6, the distance c from the center of gravity of a cargo is 20 Inches. The maximum lifting height H is 138 Inches and the maximum load capacity Q is 1320 LBS.

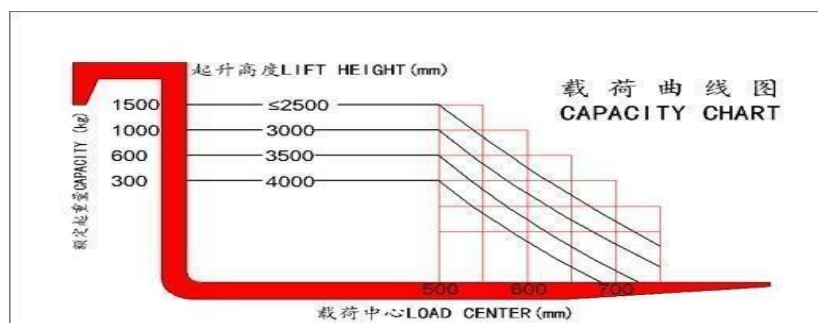


Fig. 7 Load curve diagram

c. Promote

Please do not overload, the maximum load capacity of this stacker is 3300 LBS. Only increase the load capacity as permitted by the load diagram.

When driving, please lower the forks completely onto the stacker legs and press the lift button (Figure 1 17) until

Achieve your desired lifting height.

d. Decline

If the forks are on the rack, carefully move the stacker with the pallet rack or the stacker alone out of the rack first.

Carefully press the lower button (Figure 1.16).

Lower the load until the forks are clear of the pallet rack and carefully maneuver the stacker away from the load.

e. Driving

Driving on an incline is only allowed if the load is facing upwards. Do not drive on an incline exceeding the specified specifications.

Traveling is allowed only when the forks are lowered to the lifting point (< 118IN).

By key switch, move the handle to the operating area ('F', picture 11).

Turn the accelerator button to the desired direction forward 'Fw.' or reverse 'Bw.' (Fig.8).

Carefully turn the accelerator button (Figure 1.14) to control the driving speed until it reaches to the desired speed.

If you move the accelerator button back to the center position, the controller will cause the stacker to Slow down until you stop. If the stacker stops, the parking brake will be on. Start working.

Please drive carefully to your destination and observe the road conditions and the accelerator knob adjusts the driving speed.

The stacker has the functions of turtle speed and upright walking.

Press the turtle speed button (Figure 1.21) once to enter the turtle speed mode.

Turn the acceleration button to drive at a slow speed, and press the turtle speed button again to return to the original state.

With the handle in an upright position, press and hold the turtle speed button (Figure 1.22) for 2 seconds.

Walking function, suitable for operation in narrow space.

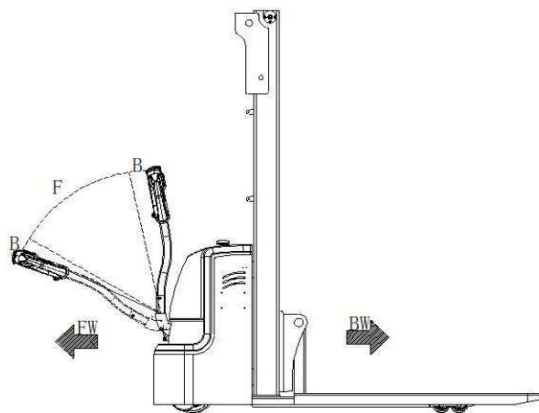


Figure 1.2

f. Steering

By moving the handle to the left or right.

g. Brake

Distance before use

Braking performance depends on road conditions and stacker load conditions

Braking function can be activated by:

- By moving the accelerator button (26) to the '0' position or releasing the button, regenerative braking is activated.
- The stacker is braked until it stops. By moving the accelerator button (26) from one driving direction directly to the opposite direction,
- The stacker brakes regeneratively until it begins to move in the opposite direction.
- The handle moves up and down to the braking area ('B') and the stacker brakes. If the handle is released,
- The handle automatically moves to the upper braking area ('B') The stacker is braked until it stops.
- The Belly Switch (16) protects the operator from being crushed and if activated, the stacker slows down and / or begins to move backwards (' Bw.')
- Drive a certain distance and then stop. If the handle is in the operating area and the stacker is not moving, please consider that the button still functions in this case

h. Fault

If any fault exists or the stacker is inoperable, stop the stacker and press the emergency stop switch (13). If possible, park the stacker in a Safe area. Immediately notify the supervisor or contact your after-sales service personnel. If necessary, use special towing / lifting equipment to tow the truck out of the operating area.

i. Emergency

In an emergency or if the stacker rolls over, keep a safe distance. If possible, press the emergency stop switch (13) and all electrical functions will stop.

7. Battery maintenance, charging and replacement



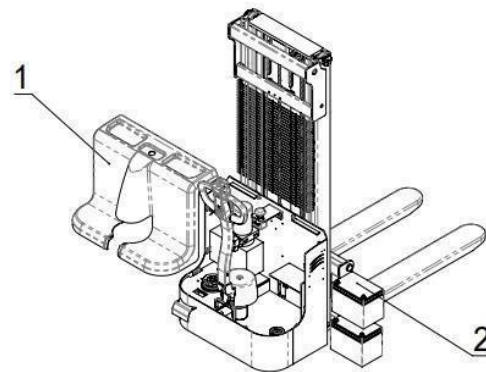
- Only qualified personnel are allowed to service or charge the battery. Always follow this manual and the battery manufacturer's instructions.
- Battery recycling is subject to national regulations. Please follow these regulations
- Do not use open flames when handling batteries.
- No burning materials or liquids are allowed in the battery charging area. Smoking is strictly prohibited and the area must be well ventilated.
- Park the stacker securely before starting charging or installing / changing the battery
- Check the power meter before each use. The operating voltage must not be lower than 20 %. Do not charge the battery frequently or for a short period of time. Check the battery terminals regularly to see if they are loose and keep their surfaces clean and free of debris.
- Before completing the repair work, please ensure that all cables are properly connected and there is no interference with other stacker parts.

a. Replace

Park the stacker safely and press the emergency stop switch (13) to switch off the stacker. Unscrew the 4 M6 Screws and remove the housing.

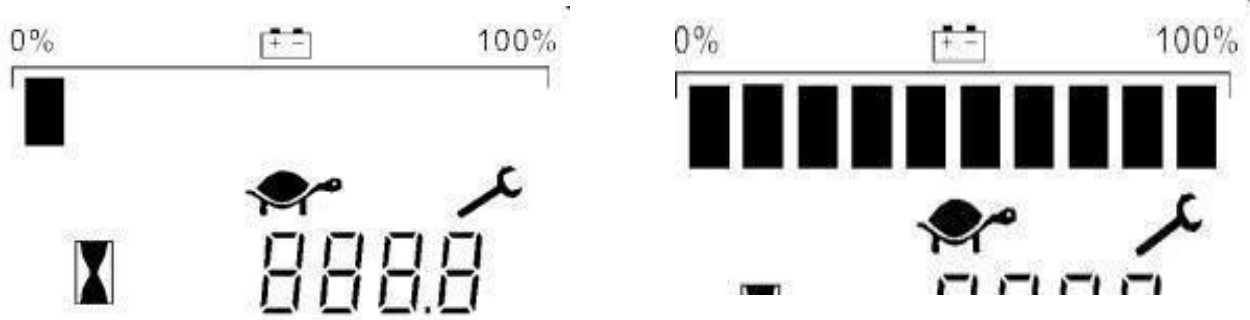
First remove the screw on the negative terminal of the first battery (displayed as '-'), then remove the positive screw (shown as a '+') and set the wiring harness aside.

Unscrew the battery cover and remove it (Figure 12), making sure not to touch the positive and negative terminals of the battery. Be careful when removing the battery to avoid touching the upper electrical panel. Use the same method to remove the second lower battery. Installation is the reverse procedure of removal. Please connect the positive terminal of the battery first. Otherwise the stacker will be damaged.



picture 8 Operation direction

b. Instrument Display

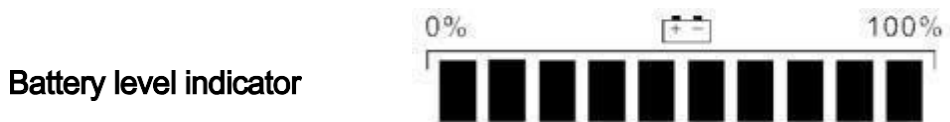


Hour meter

in the middle of the display shows the stacker's working hours.

Fault Codes

If a stacker fault occurs, the corresponding fault code will appear on the display and the wrench symbol will flash.



The battery power is indicated by 10 LED display segments, each segment represents 10% of the power. As the battery gradually discharges, the LED lights go out one by one. But only kill one at a time.

Slow



Normally, the turtle speed symbol is off. A flashing turtle speed symbol indicates that the stacker is in speed reduction mode.

wrench



Normally, the wrench symbol is off; a flashing wrench symbol indicates a fault that needs to be repaired.

Hourglass



Normally, the hourglass symbol is off, and the flashing of the hourglass symbol indicates that the hour meter has started timing.

c. Charge

- The automatic charger that comes with the stacker is only suitable for the optional voltages mentioned, 110V
- The charging space must be well ventilated.
- The exact charge status can only be viewed from the discharge display. To control the charge status, the charge must be interrupted and started.

Stacker.

- Park the stacker in a dedicated, secure area with dedicated electrical power. Lower the forks and remove the load.
- Turn off the stacker power supply and connect the main power connector (21) to the power supply.
- The charger starts charging the battery.
- Charging LED The light (22) will turn green continuously to indicate that charging is complete. The charger will then enter a floating charge mode to prevent damage to the battery. The following table shows the functions of the LED light conditions:
- When charging is complete, disconnect the connector from the socket and place it in the designated storage space.

Table 3: led Lighting

led Light signal	Function
red	Battery Discharge
orange color	Charging
green	Battery Full

8. Regular maintenance

- Only qualified and trained personnel are allowed to perform maintenance work on this stacker
- Before maintenance, please remove the cargo from the forks and lower the forks to the lowest position.
- If you need to lift the stacker, please use the designated lashing equipment or lifting equipment in accordance with Chapter 4. Before operation, please put the safety device on (such as specified lifting jacks, wedges or wooden blocks) placed under the stacker to prevent it from accidentally falling, moving or sliding
- Please pay attention to the maintenance of the handle bar. The gas pressure spring is pre-installed by compression, carelessness may cause injury
- Please use approved and dealer-issued original spare parts
- Please consider the possible machine failure and accidents caused by hydraulic oil leakage
- Only trained service technicians are allowed to adjust the pressure valve

If you need to replace the wheels, follow the instructions above. The castors must be round and free of abnormal wear.

Check the key items on your maintenance checklist.

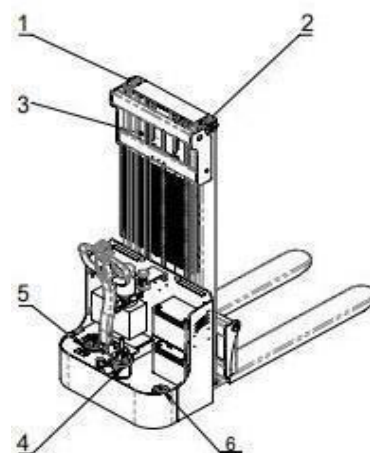
a. Maintenance Checklist

Table 4: Maintenance Checklist		Time interval (month)			
		1	3	6	12
	Hydraulic system				
1	Check the hydraulic cylinder and piston for damage, noise and leakage		•		
2	Check hydraulic connections and oil pipes for damage and leakage		•		
3	Check hydraulic oil level and refill if necessary		•		
4	Refill the hydraulic oil (12 months or 1000 working hours)				•
5	Check and adjust the function of the pressure valve (3300 LBS +0/ +10%)				•
	Mechanical system				
6	Check the forks for deformation and cracks		•		
7	Check the base for deformation and cracks		•		
8	Check that all screws are securely fastened.		•		
9	Check the mast and chain for corrosion, deformation or damage, and replace if necessary.	•			
10	Check the gearbox for noise and leakage		•		
11	Check the wheels for deformation and damage and replace if necessary		•		
12	Lubricate the steering bearing				•
13	Check and lubricate the pivot points		•		
14	Grease nipple	•			
15	guard and / or protection plate is damaged, replace it	•			
	Electrical System				
16	Check the wires for damage		•		
17	Check electrical connections and terminal condition		•		
18	Check the emergency stop switch function		•		
19	Check the electric drive motor for noise and damage		•		
20	Detection display		•		
21	Check that the correct fuse is used and replace if necessary		•		
22	Detection buzzer		•		
23	Check the contactor		•		
24	Check the frame for leaks (insulation test)		•		
25	Check the function and wear of the drive controller		•		
26	Check the electrical system of the drive motor		•		
	Braking system				
27	Check the braking performance and replace the brake disc or adjust the air gap if necessary		•		
	Battery				
28	Check the battery voltage		•		
29	Clean and grease terminals and inspect for corrosion and damage		•		
30	Check the battery case for damage		•		

	charger				
31	Check the main power cord for damage			•	
32	Check the startup protection procedure during charging			•	
	Function				
33	Detection buzzer	•			
34	Check the air gap of the electromagnetic brake	•			
35	Checking the emergency brake function	•			
36	Detect reverse braking and regenerative braking functions	•			
37	Detect belly switch function	•			
38	Checking the steering function	•			
39	Checking the lifting and lowering function	•			
40	Check the handlebar proximity switch function	•			
41	Detection speed limit switch (lifting height >~300mm)	•			
	comprehensive				
42	Check that all labels are legible and intact	•			
43	Check that the guard and/or protection are not damaged	•			
44	Check the casters and adjust the height or replace if worn.		•		
45	Conduct a test run	•			

b. Lubrication points

- 1 Load-bearing wheel bearing
- 2 Frame
- 3 Chain
- 4 Steering bearing
- 5 Gearbox
- 6 Balance wheel bearings



Picture 9: Lubrication points

c. Checking and Refiling Hydraulic Oil

according to temperature is

Ambient temperature	23°F to 77°F	> 77°F
Brand	HVLP 32 , DIN 51524	HLP 46 , DIN 51524
Viscosity	28.8 -35.2	4 1.4 - 47
Oil quantity	5L (fill according to the actual stacker model)	

Waste materials such as waste oil, waste batteries or other materials must be treated and recycled according to national regulations and, if necessary, handed over to a recycling company for recycling.

The oil level should not be lower than the minimum amount required to lift the cargo. If necessary, top up to the refueling point.

d. Remove and reinstall the protective plate

stacker if the guard is damaged or not properly installed.

Remove the clips securing the protective plate and remove the protective plate. The installation procedure is reversed. Please make sure that the protective plate is properly fixed and not damaged. If you need to replace the part, please contact your nearest after-sales service partner.

9. Failure Analysis



If the stacker still malfunctions, follow the instructions in Chapter 6 of the instruction manual.

Table 6: Failure Analysis

Fault	reason	repair
Cargo cannot be lifted	The cargo is too heavy	Lift only the maximum load indicated on the nameplate.
	Battery Discharge	Battery Charging
	Lift fuse failure	Check and eventually replace the lift fuse
	Hydraulic oil level is too low	Check and finally top up the hydraulic oil
	Oil Leakage	Check the tightness of the oil pipe and / or oil cylinder
Oil leakage due to air intake	Oil quality is too high	Reduce oil quality
Stacker cannot be operated	Battery is charging	Fully charge the battery and then plug it into the mains socket Unplug from the power outlet
	Battery not connected	Connect the battery correctly
	Fuse failure	Check and eventually replace the fuse
	Battery discharging	Battery Charging
	Emergency stop switch activated	Insert and pull the knob to remove the emergency stop switch function
	The handle is in the operating area	Move the handle to the braking area first
stackers travel in one direction only	accelerator and connector	Check the accelerator and connector
The stacker moves very slowly	Battery discharging	Check the battery condition on the discharge indicator
	Electromagnetic brake activated	Check the electromagnetic brake
	The relevant handle harness is not connected or is damaged	Check the handle harness and connectors
	300mm height, reduce speed, sensor failure	Check the sensor
	Electrical system overheating	Stop using and allow the stacker to cool down
	Thermal sensor failure	Check and replace thermal sensor if necessary
The stacker starts suddenly	Controller damage	Replace the controller
	The accelerator is not moved back to its center position	Repair or replace the accelerator

If the stacker is disabled and cannot be operated outside the work area, jack up the stacker and place a load handling device under the stacker and secure the stacker before moving the stacker out of the way.

10. Wiring/Circuit Diagram

Circuit Diagram

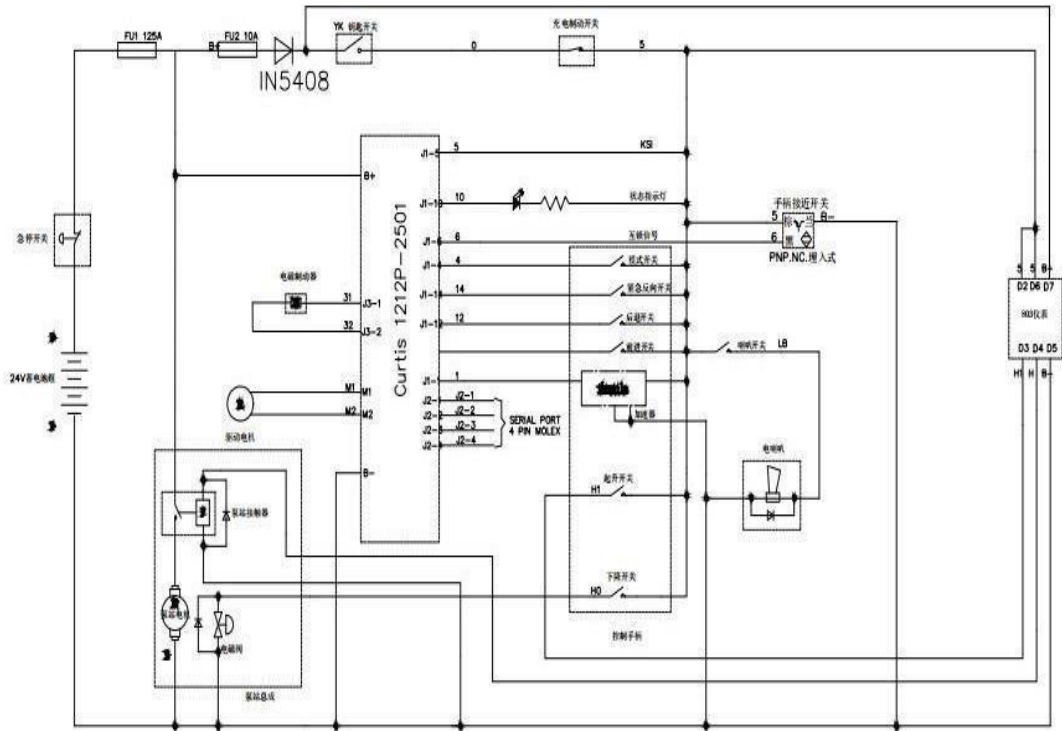


Fig. 11 CDD E 24V

Circuit Diagram

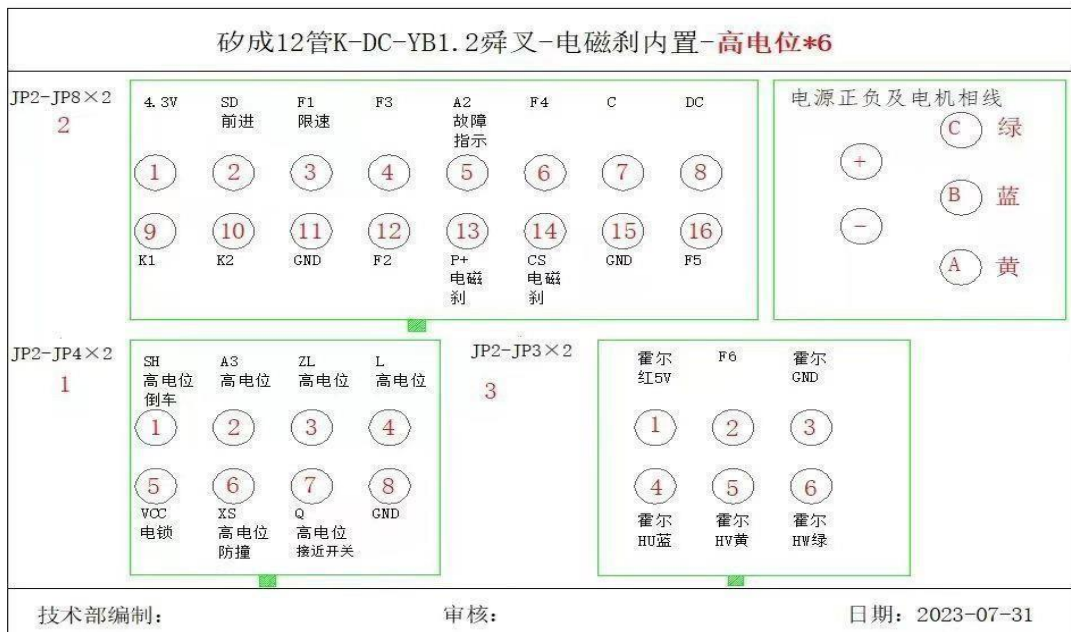


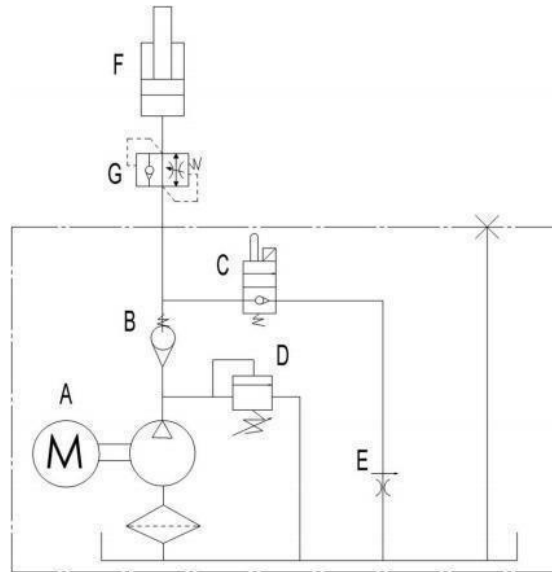
Fig. 11 ES-33K 48V

Circuit Diagram

Table 7: Electrical Symbols

S/N	Code	Name	S/N	Code	Name	S/N	Code	Name
1	B	Handle	7	Mp	Oil Pump Motor	13	SU	Height limit microswitch
2	Et	Controller	8	Mt	Traction Motor	14	SB	Push button switch
3	FU	Fuse	9	SA	Interlock Switch	15	U	Charger
4	GB	Battery	10	SC	Lifting Speed Limit Switch	16	USB	USB charger
5	HA	Trumpet	11	SH	Turning Deceleration Switch	17	YB	Electromagnetic brake
6	KMv	Oil Pump Motor	12	SM	DC Power Switch	18	YV	Lowering solenoid valve

b. Hydraulic Circuit

**Fig. 12 Hydraulic circuit****Table 8: Hydraulic symbol description**

S/N	Code	Name	S/N	Code	Name
1	A	Motor	5	E	Throttle valve
2	B	Check valve	6	F	Cylinder
3	C	Solenoid valve	7	G	Safety valve
4	D	Relief valve			

c. Hydraulic Circuit

Electromagnetic Brake Working Principle Diagram

