Instruction Manual

ELECTRIC HIGH LIFT TRUCK



Note: Owner/Operator must read and understand this instruction manual before using the electric high lift truck.

RevC: 09/2021

Specifications

Model	HB1056EN	HB1068EN	HB1556EN	HB1568EN	HB1056ENL	HB1068ENL
Rated capacity	1000Kg		1500Kg		1000Kg	
Lifting height	800mm					
Height of lowered fork	85mm					
Width across fork	560mm	680mm	560mm	680mm	560mm	680mm
Fork width	160mm					
Fork length	1190mm		1170mm		1500mm	
Front load roller	∮ 75x70mm					
Steering wheel	∮ 180x55mm					
Battery	12V 60Ah					
Weight	149Kg	154Kg	160Kg	165Kg	175 Kg	180Kg

Precaution

1. Read the manual carefully before operation. Go through every procedure as required in the manual.
2. Lifting the fork to its full range by 1 to 2 times before use to release the air in the hydraulic system.
3. It is prohibited to lift or pull person.
4. It is prohibited to work on the slope or tilt ground.
5. It is strictly prohibited to put your hand or foot under the fork or in the moving parts.
6. Put the load in the center of the fork. Eccentric loading is strictly prohibited.
7. The safety valve in the pump station will be automatically open when it is overloaded. Under such circumstances don't try to lift the load any more by push the "UP" button otherwise that will reduce the life time of the pump station.
8. Switch off the electricity after use.

9. To replace or fill hydraulic oil, the fork should be lowed to its bottom position.The oil to be used should be clean and filtered. The condensation point of the oil should be ≤ -20°， the motion Viscosity 20-30 cst.

HOW TO ASSEMBLE AND OPERATE

1. Screw(116A、B)

·To prevent oil-leaking from oil tank during transportation, Air Screw (116B) is replaced with Oil-sealing Screw（116A） in the factory. But it has to be replaced back when you put this truck in use.

·How to change: Screw out Oil-sealing Screw(116A),then screw in Air Screw(116B) With which the Pump housing (169) is hung, thus keep oil tank always connecting with atmosphere.

2.Assembly after opening the package

⑴.Take down Screw (63) and Pin(64) accordingly.

⑵.Insert Handle (65) into the handle seat of the Cylinder unit (66). Put in Pin (64). Screw in tightly with Screw (63). Put Adjusting Screw (213) (at the lower end of the Chain) into the slot of the Swing Rod (146).

⑶. Push down the Handle (65), making the Pump Piston (159) Downward meantime, to take away Block (140). Thus Handle (65) would be able to return to its upright position. Keep Pulling Handle (209) in the middle position(2). Operate the he Handle (65) up and down freely without any feeling of the blocking.

⑷. Put the Pulling Handle (209) at the low position (1), operate Handle (65), the fork should be able to lift to its highest position at the position (3),the fork should be able to lower to its bottom position steadily.

⑸.Keep Pulling Handle (209) in low position, pump Handle (65) to lift the fork to its highest position. Take away part (25) and cover (69).Place Battery (53) into battery tank in the front of Part(47). Connect Connector to (+) (-) poles accordingly. Tighten the screws on the Connector. Place part (25) and Cover (69) in. Finally descend fork to its lowest position.

⑹.Insert Wire and Plug (205)【under Handle (215)】into Socket【under Pump Cover（54）】.Check all electric components such as wire, plug etc. to see if there is any loose, break and short-cut. If everything is normal, switch on the General Switch（33）, check the Current Meter (34), the electricity should be over 3 lines.

Below 3 lines (in the red light area), the battery should be charged.

⑺.Check pipes in hydraulic system, see if there is any leakage or seeping.

⑻.Place Pulling Handle (209) on Low Position (1), press UP-Button (200) intermittently, the fork should be able to ascend accordingly. Observe electrical parts and hydraulic system to see any abnormality. If everything is normal, press Up-Button to lift the fork to its highest position. The Spacing should effect. Then place Pulling Handle (209) to its highest position (3), the fork should be able to descend smoothly.

⑼. Repeat the above said procedures for 2 or 3 times to see if there is any abnormality and to drive air away from hydraulic system. The machine is ready for use.

3.Operation

⑴.When the machine is ready for use, pull the machine on to a flat solid ground. Push forward and backward. The right and left wheel should swivel flexibly.

⑵.Manual ascending:

Place Pulling Handle (209) on Low Position (1), operate Handle (65), the fork should ascend smoothly. Place Pulling Handle (209) on Up Position (3), the fork should descend smoothly to lowest position. Release Pulling Handle (209) onto Mid-position (2), the fork should stop on any position, no descending.

⑶.Electric ascending:

Turn on Switch (33). Electric indicator should be above red line,ie. Greed light should be on. Place Pulling Handle (209) on Low Position (1). Press down Ascending Switch (200). The fork should ascend smoothly. Release the Ascending Switch (200), the fork should stop on any position no descend. Place Pulling Handle (209) on Up Position (3), the fork should descending smoothly. Release the Pulling Handle (209) to Mid-position, the fork can stop at any position.

⑷.This machine is equipped with safety valve to prevent overload.

Neither Manual ascending nor Electrical ascending can ascend under overload.

⑸. After use, turn off Switch(33) to cut off electricity. The electricity meter turns off.

⑹. When ascending speed remarkably slows down while no green light is on in Electricity Meter (34), The Battery (53) should be recharged. Put the Input Plug on the recharge (70) into the electricity socket Switch on. The recharging begins automatically.(Red light on). When the electricity is full, the green light in recharge turns on. The indicator in electricity meter shows between 8-10 lines. The recharging usually lasts 6-8 hours.

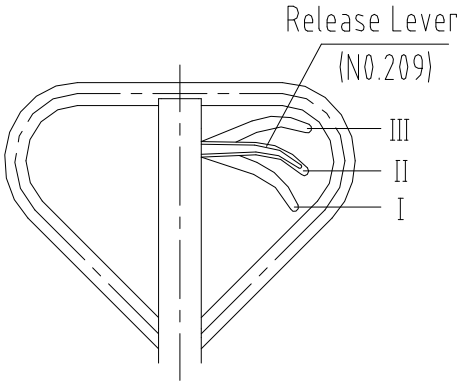
Problems、maintenance and adjustment

1.Trouble shooting

Item	Symptom	Possible cause	Suggested action
1	Fork can not ascend to highest position	Not enough oil	Fill oil (follow the way in No.3,Fig 3)
2	Fork does not Ascend while Operate the handle	1.pulling Handle (209) is not in right position 2. Air in hydraulic system	1. Adjust according the Way in No.2, Fig 2) 2. To operate the machine Up-down to its full range 1-2 times with no load by manual or electrical operation
3	Fork can not descend	1.Pulling Handle (209) is not in right position	1. Adjust by following the way in No.2 and Fig 2.Replace damaged parts 3.Take away foreign object
4	Fork does noe ascend when press ascending switch	1.Pulling Handle(209) is not in right position 2. Switch is broken 3.Fuse melt down 4.Hydraulic pump does Not work 5.Electric-magnetic switch is broken	1.Adjust following the way in No.2 and Fig 2.Replace switch 3.Replace fuse. (F1 38,F2 39) 4.Check motor 5.Check electric-magnetic switch
5	Motor does not work	1.Motor is broken 2.Connector and piug-socket are loose 3.Battery is worn out 4.Fuse melt down	1.Check or replace motor 2.Check all connectors 3.Recharge battery 4.Check fuse (F1,F2)
6	Electricity in batter is not enough	1.Recharge time is not enough 2.Battery is broken	1.Continue recharging to12-14 lines 2.Fill in battery liquid or replace battery
7	Seeping oil in piston and pinion	Seals are broken	Replace seals (156)(111)

2.Adjusting position for Pulling Handle(209)

⑴.Function of three position:



picture 1

Position 1:ascending the fork

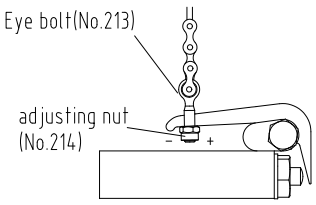
Position 2:neutral

Position 3:descending the fork

⑵.Adjusting:(Fig 2)

Adjusting Nut (214) if Pulling Handle's position is wrong by following the way below:

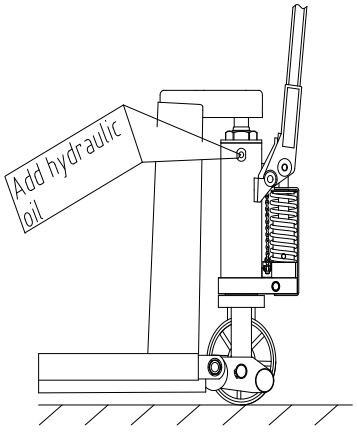
Position	Adjusting
On Position 3,fork does not descend	Turn Nut upward anticlockwise (+)
On Position 1,fork does not descend	Turn Nut downward clockwise (-)
On Position 2, not neutral	Adjusting Nut up and down



picture 2

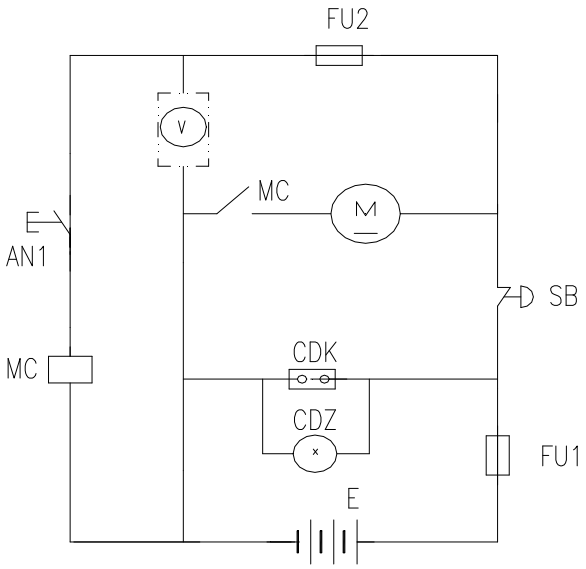
(3).Fill oil

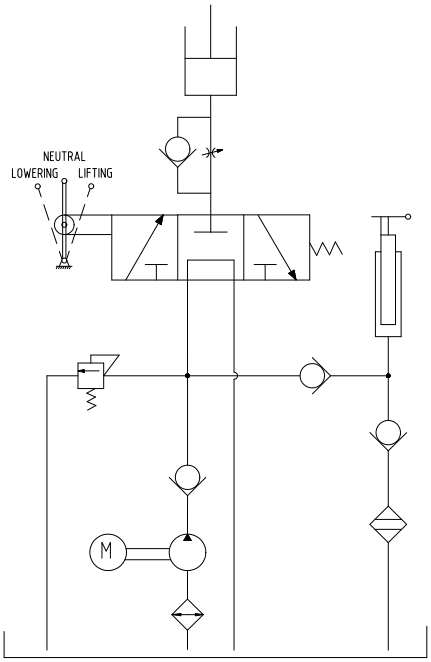
Low down the fork to its lowest position. Turn loose Oiling Screw(116). Fill in clean hydraulic oil(see Attention 8 for technical requirement). Then turn Oiling Screw(116) tight. Press ascending Switch(200), check if fork can ascend to its highest position. If not, repeat above procedure. Oil filled should just be enough for dork to ascend to highest position. Don't fill the hydraulic oil up to filling moth once.



picture 3

HYDRAULIC CIRCUIT/ELECTRIC WIRING DIAGRAM





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