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

THANK YOU VERY MUCH FOR SELECTING OUR ELECTRIC HIGH LIFT TRUCK. THIS INSTRUCTION MANUAL DFSCRIBES CORRECT OPERATING METHOD TO ENSURE PROLONGED SERVICE LIFE. PLEASE READ AND COMPLETELY UNDERSTAND THIS MANUAL BEFORE OPERATING THE LIFT TABLE. ALWAYS KEEP THIS MANUAL AT AN APPROPRIATE PLACE. IF THE MANUAL OR WARNING DECAL IS MISSING, PLEASE CONTACT WITH OUR DEALER.

Brief Introduction

DGB series electric high lift trucks (short for DGB series hereafter) are designed on the basis of hand-operated high lift pallet truck (short for HLT hereafter). It has equipped with battery powered Pump Station, high-pressure hose and electrical control device.

It is featured by automatic pumping up and down. Thus, it can greatly release laboring and raise working efficiency. Meanwhile, it ha kept the features of HLT, such as the application of material lifting and transporting when the fork is on its low position, and the use as a working table when the fork on its highest position.

Those features make HLT series become a most popular tool in the field of workshop and warehouse as working table, or loading and unloading table for mini-truck, and transporting tool.

Mechanical part of DGB series consists of fork, lifting yoke, lifting bar, cylinder, handle and etc.

Its power part includes battery, mini-pump station, high-pressure hose, fuse, control switch and etc.

It is easy to operate by pushing button (Part No.107) on the top of Handle(119) to pump the goods up and down.It can be stopped at any position as you like.

Specifications

Model	CS1000D	CS1001D	CS1501D	CS1501D
Rated Capacity （kgs）	1000		1500	
Max.Lifting Height (mm)	800			
Min.Fork Height (mm)	85			
Fork Length (mm)	1190		1150	
Fork Overall Width (mm)	680	520	680	520
Dia. of Front Wheel (mm)	ϕ75X50			
Dia. Of Rear Wheel (mm)	ϕ150X40			
Motor Working Voltage	12V			
Battery	54Ah/12V			
Charger	6A/12V			
Net Weight （kgs）	132	130	140	134

Assembly and Adjustment

1.Taking the packing materials away carefully. Don’t damage the pallet truck.

2.Insert handle (119) into the socket of cylinder (93); lock it with pin (105) with 2 snap ring (69) and 2 washer(70). Swing the handle up and down to see if it moves freely. Finally put on spring (104).

3.Open the electrical control case by removing the cover (234). Insert switch wire and plug (112) hanging down from handle (119) into socket in the case.

4.Check the electrical device and elements in the case to see if they are lose, drop down or break.

5.Check oil pipes in the hydraulic system to see if they are screwed tightly.Open cover to see if oil is sufficient.

6.Push Up-button (107)↑on the top of handle (119) intermittently to lift the fork, meanwhile to observe electrical device and elements in the case to see if there's any abnormal phenomenon. If there's no, continue to push the Up-button to lift the fork to its highest position. Then push Down-Button(107)↓ to release the fork to its lowest position steadily.

7.Repeat the above procedure for 3 to 4 times to its full travel in order to release possible air in the hydraulic system and to check if there're any other problems.

8.Close the case with cover (234) and screw it tightly with screw （235）.

Operation

1.DGB series are designed for working on the flag and even ground.

2.Handle (119) is used for pulling and steering.

3.When the fork is lifted to its highest,DGB series should not be moved.

4.Push Up-button, the fork goes up. Stop pushing, the fork can stop at any position and won't slide down.

5.Push Down-button, the fork goes down. Stop pushing, the fork can stop at any position and won't slide down.

6.As a safely valve is set in the pump station, when DGB series lifts a load of 1000kgs (its full capacity), only mid-cylinder (90) can extend out fully, while the piston rod (82) cannot extract to prevent overload.

7.Recharge Battery (231) when the lifting speed is remarkably slow.There only three red (LBD) lighting in the electric volume gauge (216).To plug recharger (228) into a power socket. Make sure your local power matches the recharger. The battery will be automatically recharged. In the meantime the yellow (LBD) lights. Recharging usually takes 6 to 8 hours.

Precautions

1.Read the manual carefully before operation. Finish every procedure as required in the manual.

2.Lifting the fork to its full range 1 to 2 times before use to release the air in the hydraulic system.

3.DGB series are prohibited to lift or pull person. The DGB series are not allowed to

work on the slope.

4.Don’t put your hand or foot under the fork or on the moving surface of piston rod (82) and mid-cylinder (90).

5.Put the load on the centre of the forks. Eccentric loading is strictly prohibited.

6.The safety valve in the pump station will be automatically open when it is overloaded. Under such circumstance, don’t push up-button. Otherwise that will reduce the lifetime of the pump station.

To replace or fill hydraulic oil, the forks should be lowed to the lowest position. The oil to be used should be clean. The oil condensation point should be ≤ -20℃. The motion viscosity: 20-30 cst (centistokes).

Easy-worn Parts

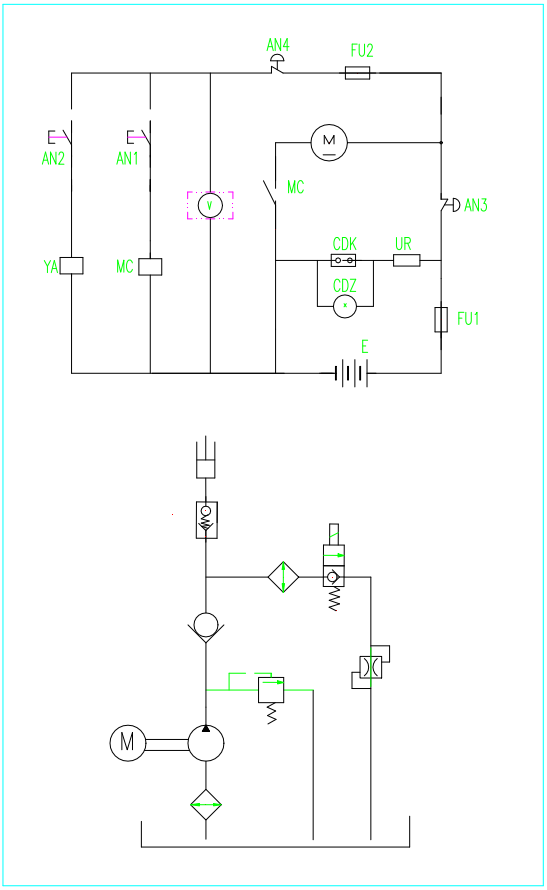
Series No.	Part No.	Description	Quantity
1	204	4A	1
2	200	100A(1T),200A(1.5T)	1

Problems and Maintenance

No.	Symptom	Cause	Remedy
1	Fork does not lift up when pushing up-button	1.Switch is out of order 2.Fuse is broken 3.Magnetic switch is out of order 4.Oil not enough	1.Check switch (107) 2.Replace fuse (204 or 200) 3.Check magnetic switch (213) 4.Fill oil
2	Fork does not descend when pushing down-button	1.Switch is out of order 2.Fuse broken 3.Magnetic switch is out of order 4.Object blocking	1.Check switch (107) 2.Replace fuse (204 or 200) 3.Check magnetic switch 4.Check and remove the object
3	Fork does not lift to highest position	1.Oil not enough	1.Fill oil
4	Motor does not work	1.Motor broken 2.Terminals and inserters are loose 3.Battery worn out	1.Check motor brush 2.Check terminals and inserters 3.Recharging at once
5	Battery ha no enough power	1.Recharging time is not enough	1.Recharge for a longer time

		2.Battery is out of order	2.Fill battery liquid or replace battery
6	Oil leakage from Piston Rod & Mid-cylinder	1.Oil seals broken	1.Replace oil seals
7	Unsteady when DGB1 is on its highest position.	1.The ground is not flat or even 2.Centrifugal axle is left from the ground	1.Work on flat and even ground 2.Adjusting centrifugal axle (19) to touch the ground

HYDRAULIC CIRCUIT/ELECTRIC WIRING DIAGRAM



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