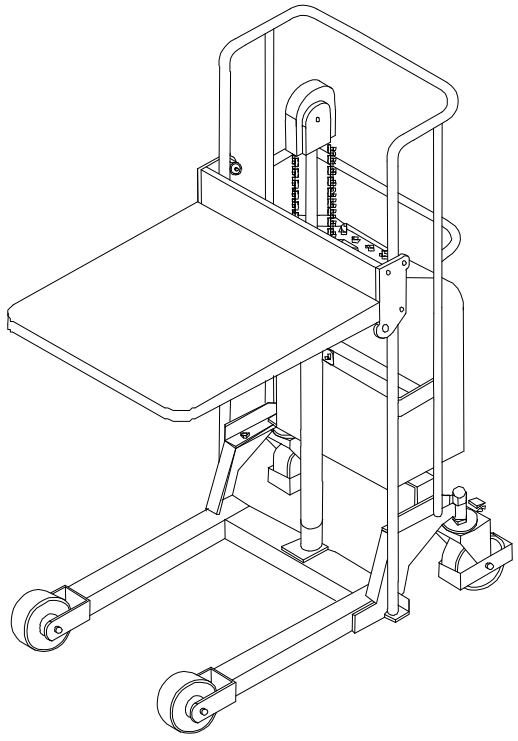
Instruction Manual

Electric Platform (Fork) Stacker

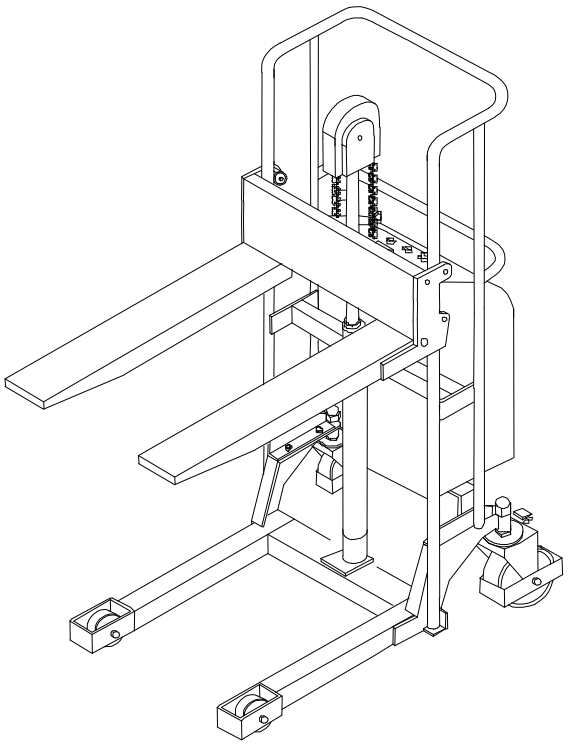
Model: EA2085 EA2120 EA4085 EA4120 EA4150

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EA. Series Stacker



EB (EC). Series Stacker

NOTE: Owner and Operator must read and understand this instruction manual before using the Electric Stacker.

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Thank you very much for selecting our ELECTRIC STACKER!

This instruction manual describes correct operating method to ensure prolonged service life. Please read and completely understand this manual before operating the Electric Stacker. Always keep this manual at an appropriate place. If the manual or warning decal is missing, please contact your vender.

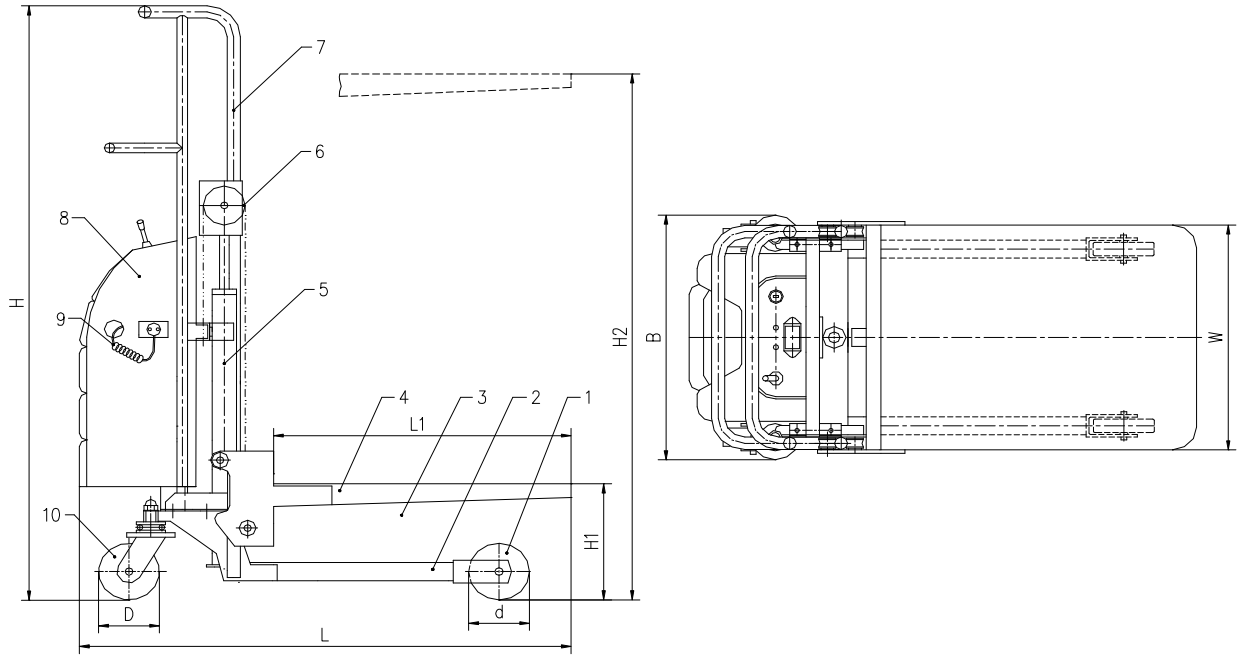
NOTE: All information reported herein is based on the data available at the time of printing. The factory reserves the right to modify its own products at any time without notice or incurring in any sanction. Please verify with the supplier for possible updates.

1. Brief Instruction

EA. EB. EC series Stacker is designed on the basis of Manual series Stacker. With a power pack and a high quality free-service battery, it is able to lifting or lowering load when operate. It can release labor and improve working efficiency. It mainly applies to transporting, lifting and stacking goods on level place. It is applicable widely in factory, store, hospital, warehouse etc. It becomes a most popular transporter with its many features such as easily operated, safety, automatic, high working efficiency. Low profile forks can lift the pallet easily. Meanwhile place the optional attachment (platform) on the fork, it will be used as a platform stacker.

2. Specification

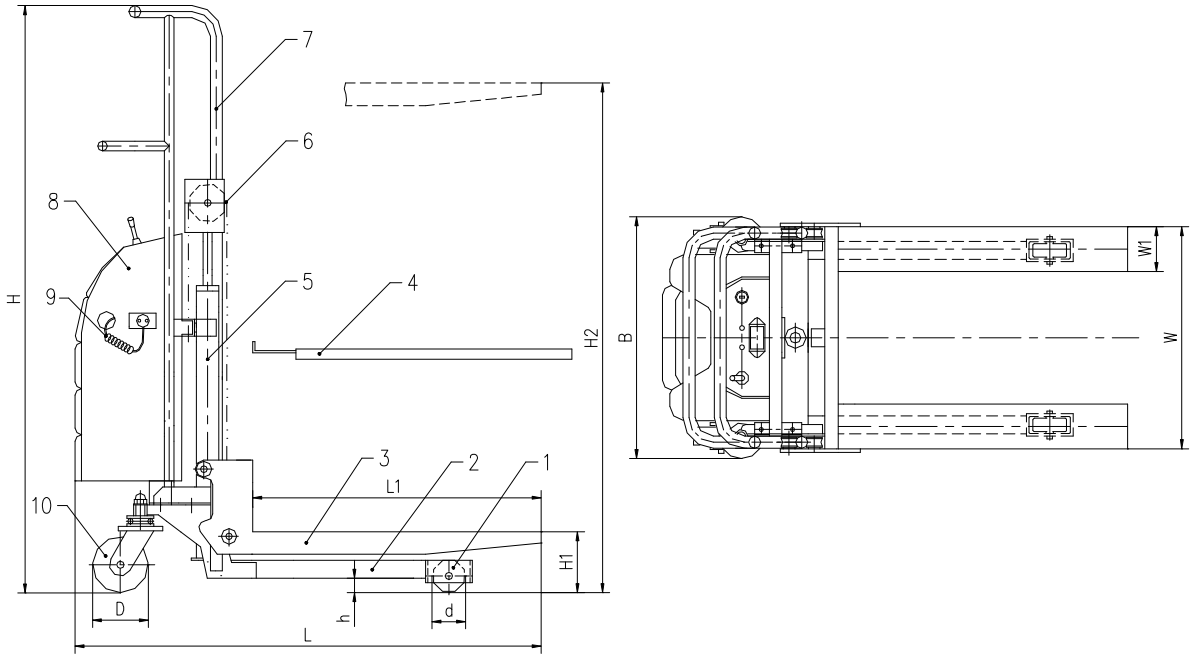
(1) EA Series Stacker



Model		EA2085	EA2120	EA4085	EA4120	EA4150
Capacity	**(Kg)**	200	200	400	400	400
Min. Platform Height	**H1(mm)**	200	200	200	200	200
Max.Platform Height	**H2(mm)**	850	1200	850	1200	1500
Platform Length	**L1(mm)**	600	600	650	650	650

Platform Width	**W (mm)**	500	500	550	550	550
Dia of Front Wheel	**d (mm)**	Φ125	Φ125	Φ150	Φ150	Φ150
Dia of Steering Wheel	**D(mm)**	Φ125	Φ125	Φ150	Φ150	Φ150
Power Pack Motor	**(KW)**	0.8	0.8	0.8	0.8	0.8
Battery	**(v/Ah)**	12/60	12/60	12/70	12/70	12/70
Overall Length	**L(mm)**	990	990	1030	1030	1030
Overall Width	**B(mm)**	560	560	600	600	600
Overall Height	**H(mm)**	960	1320	975	1310	1610
Net Weight	**(Kg)**	88	93	109	115	120

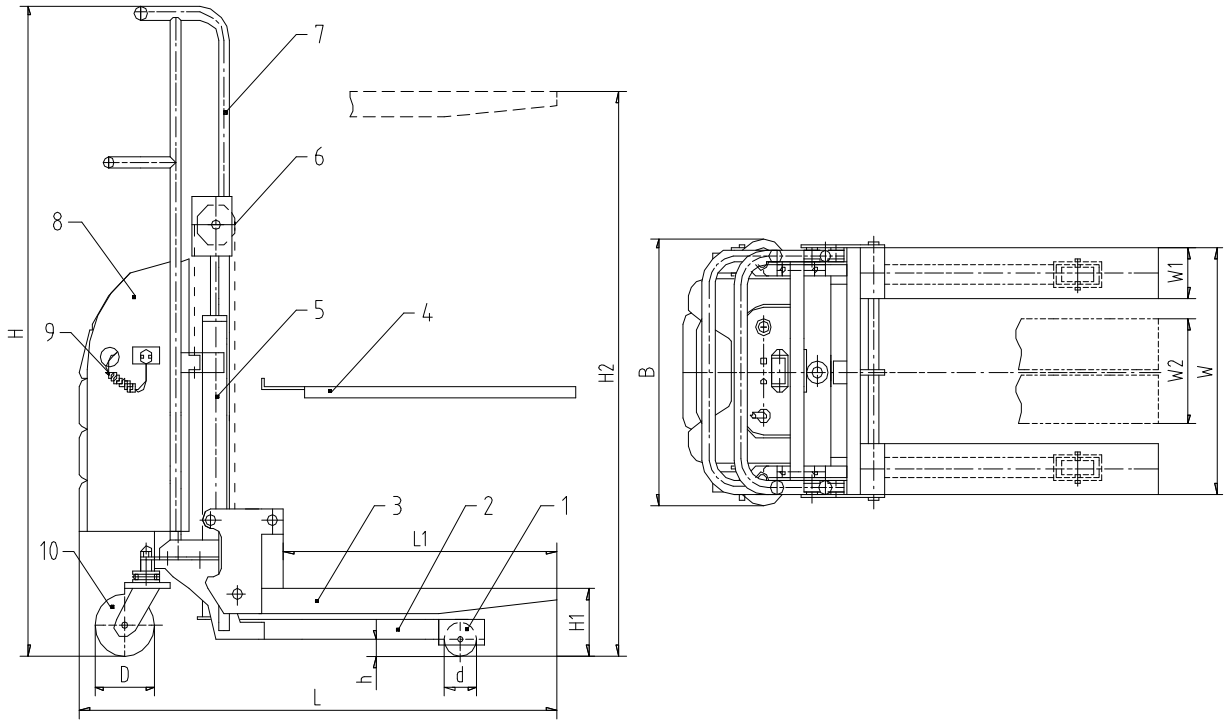
(2) EB Series Stacker



Model		**EB2085**	**EB2120**	**EB4085**	**EB4120**	**EB4150**
Capacity	**(Kg)**	200	200	400	400	400
Min. Fork Height	**H1(mm)**	85	85	85	85	85
Max. Fork Height	**H2(mm)**	850	1200	850	1200	1500
Fork Length	**L1(mm)**	600	600	650	650	650
Fork Width	**W (mm)**	500	500	550	550	550
Single Fork Width	**W1(mm)**	100	100	100	100	100
Dia of Front Wheel	**d (mm)**	Φ75	Φ75	Φ75	Φ75	Φ75
Dia of Steering Wheel	**D(mm)**	Φ125	Φ125	Φ125	Φ125	Φ125
Chassis Height	**h(mm)**	28	28	28	28	28
Power Pack Motor	**(KW)**	0.8	0.8	0.8	0.8	0.8
Battery	**(v/Ah)**	12/60	12/60	12/70	12/70	12/70
Overall Length	**L(mm)**	1040	1040	1065	1065	1065
Overall Width	**B(mm)**	540	540	600	600	600
Overall Height	**H(mm)**	1080	1430	1085	1285	1590
Option Platform	**(mm)**	LP10(610×530)		LP20(650×585)		

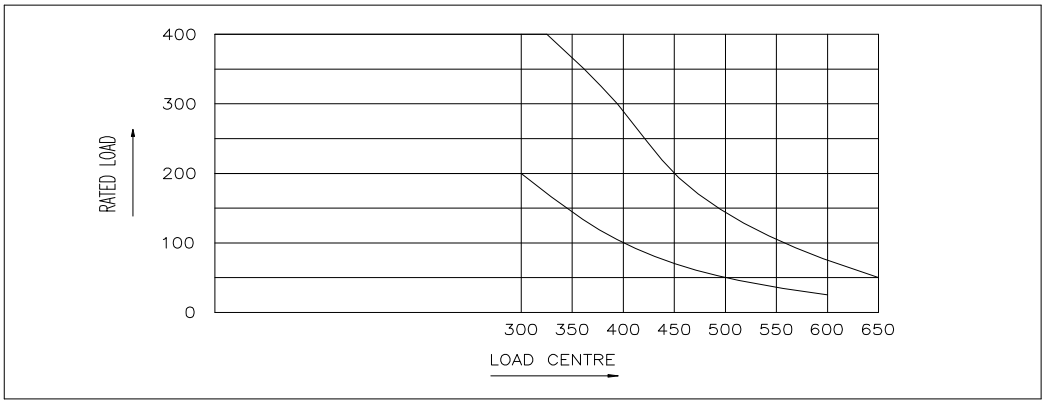
Net Weight	**(Kg)**	90	97	103	115	120

(3) EC Series Stacker



Model		**EC2085**	**EC2120**	**EC4085**	**EC4120**	**EC4150**
Capacity	**(Kg)**	200	200	400	400	400
Min. Fork Height	**H1(mm)**	85	85	85	85	85
Max. Fork Height	**H2(mm)**	850	1200	850	1200	1500
Fork Length	**L1(mm)**	600	600	650	650	650
Fork Width	**W (mm)**	500	500	550	550	550
Single Fork Width	**W1(mm)**	100	100	100	100	100
Fork Width	**W2 (mm)**	215	215	215	215	215
Dia of Front Wheel	**d (mm)**	Φ75	Φ75	Φ75	Φ75	Φ75
Dia of Steering Wheel	**D(mm)**	Φ125	Φ125	Φ125	Φ125	Φ125
Chassis Height	**h(mm)**	28	28	28	28	28
Power Pack Motor	**(KW)**	0.8	0.8	0.8	0.8	0.8
Battery	**(v/Ah)**	12/60	12/60	12/70	12/70	12/70
Overall Length	**L(mm)**	1080	1080	1120	1120	1120
Overall Width	**B(mm)**	540	540	600	600	600
Overall Height	**H(mm)**	1080	1430	1085	1285	1590
Option Platform	**(mm)**	LP10(610×530)		LP20(650×585)		
Net Weight	**(Kg)**	93	100	107	118	123

(4) Loading Capacity Chart:



3. Nomenclature of Each Section

1 —— Front Wheel
2 —— Chassis
3 —— Fork Assembly (Drawer)
4 —— Optional Platform
5 —— Pump Assembly
6 —— Chain Wheel
7 —— Handle Rack
8 —— Electric Control Box
9 —— Power Cable for Charging
10 —— Steering Wheel

4. Safety Instruction

4.1 Use it on a level paved surface.

4.2 Don't load over the maximum capacity and ensure the balance of loading.

4.3 To cooling the temperature of power pack motor, it should be paused working for minutes after continuous working with load. Otherwise, it might cause damage to power pack.

4.4 Recharge the battery when it has no enough power. Ensure local electric power matches the charge. Do not discharge the battery completely.

4.5 Don't touch the chain or any other moving parts.

4.6 Please close the electric control box before use.

5. Inspection before Use

As EA. EB. EC series Stacker is integer packing, it was adjusted. The owner should inspect the stacker before use as follows:

5.1 Ensure all parts complete and in good condition. Do not use the stacker and contact local supplier in case of any parts missing or defective.

5.2 Check electric control box.

5.3 Ensure oil is full and no oil leakage in the hydraulic system.

5.4 Ensure battery has enough power. The battery has been charged before shipment.
But due to long time delivery, it would be low in power. When turn on the stacker, the
Voltage meter shows 10.5V, or when lifting loaded, the coulometer shows 3 graduation and green lights, it needs recharged.

5.5 Connect the power, the performance of lifting and lowering platform (fork) is normal when unloaded.

5.6 Connecting power, when loaded platform (fork) lift and lower, there is no oil leak.

5.7 Place the charger at a safety place.

6. Operation Instruction

6.1 Lift/lowering the platform (fork)

6.1.1 Lock the parking brake.

6.1.2 Turn the switch to **ON**, there is power and all graduation of coulometer is light or voltage meter shows over 10.5V.

6.1.3 Press the **LIFT** button, the platform (fork) will lift up. Loose the button, the platform (fork) will stop at any position as you like. It will not slide down.

6.1.4 Press the **LOWER** button, the platform (fork) will lower down. Loose the button, the platform (fork) will stop at any position as you like. It will not slide down.

6.1.5 To prolong the service life of electric pump, it is necessary to loose the button when the platform (fork) reach the top position.

6.1.6 The electric pump is provided with a relief valve. When the load is over 120% of the capacity, the platform (fork) will not lift.

6.1.7 Do not keep the stacker work with load continuously to prevent the motor burned.

6.1.8 When moving the stacker, the clearance between the platform (fork) and ground should be more then 200mm.

6.1.9 In order to keep the stability of stacker should move slowly and the distance is short to the full when stacking the load.

6.1.10 To ensure the safety, turn the switch to **OFF** and take away the switch key after operation.

6.2 How to use charger

6.2.1 After continuous working, the battery will be low in power. The coulometer is becoming green (3 graduation) or voltage meter shows 10.4V, it will be recharged.

6.2.2 The **red light** ＜3 **graduation** on coulometer is showing or voltage meter shows **under 10.4V**, and lifting speed slow down obviously, it **must be recharged**. If not, it will shorten the service life of electric pump and battery.

6.2.3 Before recharging the battery, please carefully read and fully understand the attached instruction manual of charger.

6.2.4 Before plugging the charger into a power socket. Make sure local electric power matches the charger. Then connect the charger to socket in the electric control box, the battery will be recharged automatically.

6.2.5 When charging, there will separate out hydrogen and oxygen. So please keep ventilated and away from the fire in case of danger.

7. Daily Maintenance & Periodical Inspection

7.1 Inspect the each section for loose bolts and nuts monthly.

7.2 Inspect the each section, wheel, hydraulic system, electric pump for distortion, worn, and abnormal noise monthly.

7.3 Inspect performance of lifting and lowering the fork and other device monthly.

7.4 Inspect the battery surface for clean and dry monthly. Dirty and wetness may cause leakage of electricity and descent of voltage.

7.5 Inspect the terminals, inserters, fuse electric component for loose, broken monthly.

7.6 Change the hydraulic oil after 20 working hours in the beginning. Then, change the oil every 300 working hours. If the stacker is not used frequently, please change the oil every 18 months.

7.7 Refer to following sheet when change or fill the oil.

Temperature	Oil
-5°C～+45°C	L-HM68 Hydraulic oil (equivalent to ISO VG68)
-15°C~-5°C	L-HM46 Hydraulic oil (equivalent to ISO VG46)

7.8 When changing the oil, put the piston at the lowest position, then open the electric control box, remove the bolt on the bottom the valve plate and the bolt connecting motor and valve plate, the pump section is disassembled.

7.9 Clean the valve plate and the oil tank, then fill oil to 80% of oil tank content. And inspect the connection to avoid oil leakage.

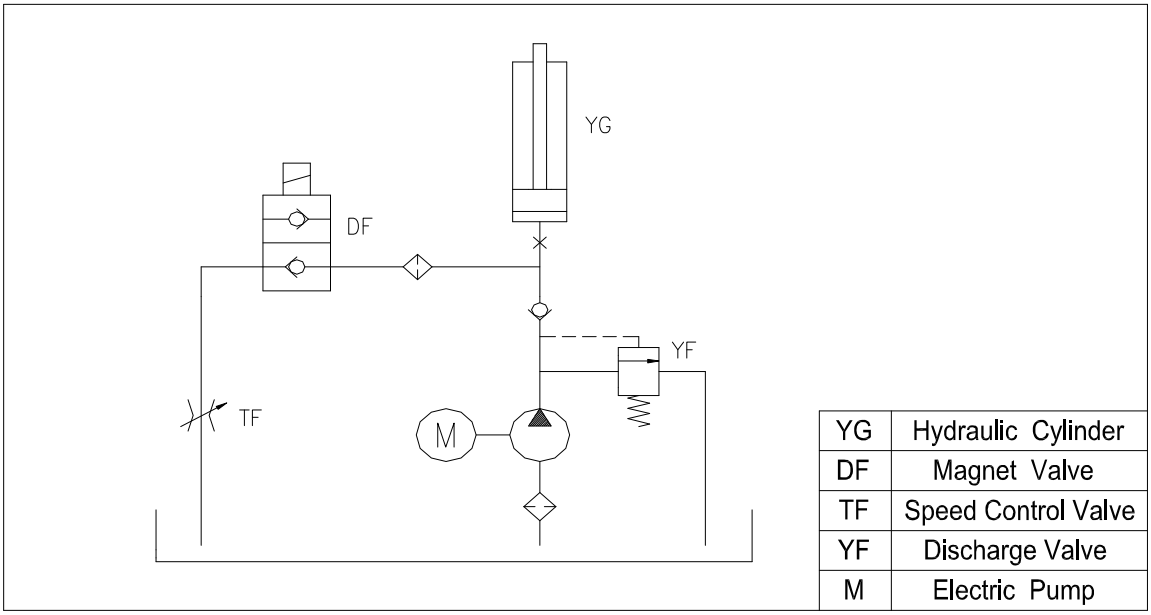
7.10 Assemble the section and ensure all parts fastness.

8. Trouble Shooting & Maintenance

No.	Problem Description	Cause	Remedy
1	Turn the key switch to **ON**, coulometer doesn't indicate.	1.Switch is out of order. 2.Terminals and inserters are loose.	1.Check and change switch. 2.Check terminals and inserters.
2	Platform(Fork) does not lift up when pushing **LIFT** button	1.Switch is out of order. 2.Fuse is broken. 3.Terminals and inserters are loose. 4.Electric pump is empty of oil.	1.Check and change switch. 2.Replace fuse. 3.Check terminals and inserters. 4.Fill oil to prescribe position.
3.	Lifting speed is too slow when pushing **LIFT** button.	1.Battery is not enough power. 2.Relief valve is not in proper position.	1.Recharge the battery. 2.Adjust the relief valve.
4.	Fork can't lift to top.	Electric pump is short of oil.	Fill oil to prescribe position.
5.	Electric pump does not work.	1.Electric pump is broken. 2.Terminals and connector are loose. 3.Battery is not enough power.	1.Check and change. 2.Check terminals and inserters. 3. Recharge the battery.
6.	Platform(Fork) does not lower down when pushing **LOWER** button	1. Switch is out of order. 2. Fuse is broken. 3.Magnet contactor is broken. 4.Other object block..	1.Check and change switch. 2. Replace fuse. 3. Check and change. 4.Remove the object.

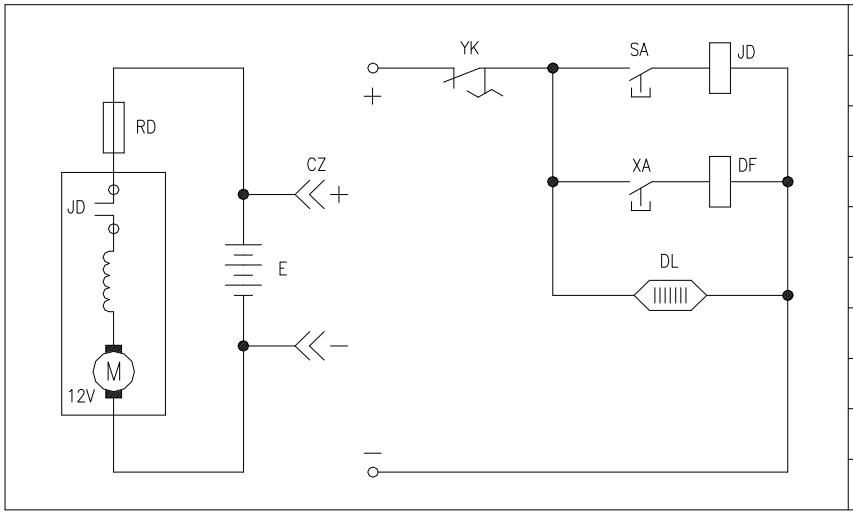
7.	Coulometer shows nothing, or the red light flash, or battery has no enough power	1.Terminals and inserters are loose. 2.Charging time is not enough. 3.Battery is out of order.	1.Check terminals and inserters. 2. Charge longer time. 3.Check and replace the battery.
8	Hydraulic system has oil leakage.	Oil seals are broken.	Replace oil seals.
9	After recharging, the coulometer shows low electricity, and lifting speed is slow.	1.Battery has not enough recharging. 2. Battery is worn out. 3.Charger is worn out.	1.Recharge the battery. 2.Replace the battery. 3.check and replace the charger.

9. Diagram of Hydraulic System



YG	Hydraulic Cylinder
DF	Magnet Valve
TF	Speed Control Valve
YF	Discharge Valve
M	Electric Pump

10. Diagram of Electric Control System



JD	Relay
RD	Fuse
M	DC Motor
E	Battery
CZ	Charger Socket
YK	Switch
SA	LIFT-Button
XA	LOWER-Button
DF	Magnet Valve
DL	Coulometer