

Operating Instructions



BATTERY POWERED LIFT TABLE ETF30/ ETF50/ ETF75

Note: Owner and operator **MUST** read and understand this operating instructions before use this lift table.

BEFORE OPERATING THE LIFTER, READ THIS MANUAL CAREFULLY AND UNDERSTAND COMPLETELY, KEEP THIS MANUAL ON FILE FOR FUTURE REFERENCE, IF THIS IS LOST, PLEASE CONTACT YOUR LOCAL SUPPLIER FOR A NEW COPY, IF THE WARNING/CAUTION LABEL ON THE UNIT IS LOST, PLEASE CONTACT YOUR LOCAL SUPPLIER FOR A NEW COPY.



NOTE: On this manual, **WARNING** means the danger which can lead to death or serious injury.



CAUTION means the danger which can lead to slight injury or property damage.

1. WARNING

- (1.) Do Not put foot or hand in scissors mechanism.*
- (2.) Do Not allow other person to stand in front of or behind lifter when it is moving.*
- (3.) Do Not move lifter when table is in raised position. Load could fall down.*
- (4.) Do Not enter under table.*
- (5.) Do Not overload lifter.*
- (6.) Do Not put foot in front of rolling wheel, Injury could result.*
- (7.) Watch difference of floor level when moving lifter. Load could fall down.*
- (8.) Do Not use lifter on slope or inclined surface, lifter may become uncontrollable and create danger.*
- (9.) Do Not lift people. People could fall down and suffer severe injury.*

(10.) Do Read “Caution” on the case of power pack of the lifter, before daily operation.

2. CAUTION

(1.) Read this manual carefully and understand completely before operating lifter. Improper operation could create danger.

*(2.) This lifter is a movable lifter designed to lift or lower rated load on table.
Do Not use lifter for other purpose than its intended use.*

(3.) All lifter service must be performed by qualified personnel only.

*(4.) Do Not lower table too fast. Load could fall down and create danger.
Lower speed controller is available for safety purpose.*

(5.) Keep watching the condition of load. Stop operating lifter if load becomes unstable.

(6.) Brake lifter and switch the breaker off when sliding load on or off table.

(7.) Do Not side or end load. Load must be distributed on at least 80% of table area.

(8.) Do Not use lifter with unstable, unbalanced loosely stacked load.

(9.) Practice maintenance work according to Regular Inspection.

(10.) Do Not modify lifter without manufacturer's written consent especially the electric device.

(11.) Remove load from table and when servicing lifter, please use safety stopper to prevent table from lowering.

(12.) This lifter is not designed to be water resistant. Use lifter under dry condition.

(13.) Prolonged continuous operation might cause damage of power pack.

(14.) Stop operation if temperature of hydraulic oil is too high.

(15.) Do Not supply built-in charger with AC voltage other than 110V or 220V.

3.DAILY INSPECTION

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



CAUTION

DO not use lifter if any malfunction or fault is found

- (1.) Check for scratch, bending or cracking on the lifter.*
- (2.) Check if there is any oil leakage from the cylinder.*
- (3.) Check the vertical creep of Table.*
- (4.) Check the smooth movement of the wheels.*
- (5.) Check the function of brake.*
- (6.) Check if all the bolts and nuts are tightened firmly.*
- (7.)Check the storage level by turning the circuit breaker on.*
- (8.)Check the lifting and lowering conditions by switching buttons on.*
- (9.)Check if there are broken hoses or broken electric wires by eyes.*

4. OPERATING LIFTER

4-1 How to use the brake



CAUTION

Brake lifter when not moving it in order to prevent sudden movement.

The brake is equipped with the swivel caster on the right.

- (1.) Braking the wheel, press the brake pedal.
- (2.) Release the brake, lift up the brake pedal.

4-2 Lifting the table



CAUTION

1. Do Not overload lifter. Stay within it's rated capacity.
2. Do Not side or end load. Load must be distributed on at least 80% of table area.
3. Prolonged continuous working might cause damage of hydraulic power pack.
4. Stop operation if temperature of hydraulic oil is too high.
5. Do Not lift people. People could fall down and suffer severe injury.

(1.) Press the switch "UP" and the table lifts up to the desired position ranging vertical travel.

(2.)

| Maximum Capacity Of Table | | | |
|---------------------------|-------|-------|--------|
| ETF30 | ETF50 | ETF75 | ETFD35 |
| 300Kg | 500Kg | 750Kg | 350Kg |

Do not over load lifter.

4-3 Lowering table



CAUTION

1. Do Not put foot or hand in scissors mechanism.
2. Do Not lower table with load too fast and stop suddenly. Impact load could be created and lifter could be damaged.

Push the swich "DOWN" and the table lowers down to the desired position.

5. MOVING LIFTER



CAUTION

- DO NOT move lifter on slope or inclined surface. Lifter may become uncontrollable and create danger.
- DO NOT allow other person stand in front of or behind lifter when it is moving.
- DO NOT move lifter when table is in raised position. Load could fall down.
- DO NOT put foot in front of rolling wheels. Injury could result.
- Watch difference of floor level when moving lifter. Load could fall down.

- (1.) Make the load stable to prevent it from falling down.
- (2.) Lower the table down before moving.
- (3.) Release the brake and move the lifter.
- (4.) Keep watching the condition of load. Stop operating lifter if load becomes unstable.

6. CHARGING THE BATTERY

- (1.) The lifter is equipped with "Free Maintenance" seal type battery. Need not attend but replace when worn out.
- (2.) Turn the circuit breaker off when charging the battery.
- (3.) The attached automatic charger is only available for the optional voltage of 110V or 220V as referred.
- (4.) Check the storage level indicator on the power pack for the battery condition.
- (5.) The switch of charger turns off automatically when the battery reaches 80% capacity or exceeds 12 hours in charging condition.
- (6.) Check the wiring or confirm AC voltage when AC power Indicator of Automatic Charger shows Abnormal by Red Flashlight.

7. REGULAR INSPECTION

- (1.) Check the items emphasized in daily inspection (daily).
- (2.) Lubricate with grease the rails where roller moves. Also lubricate the grease nipples (monthly).
- (3.) Lubricate all the pivoting points and axles (every 6 months).
- (4.) Replace the hydraulic oil (every 12 months).

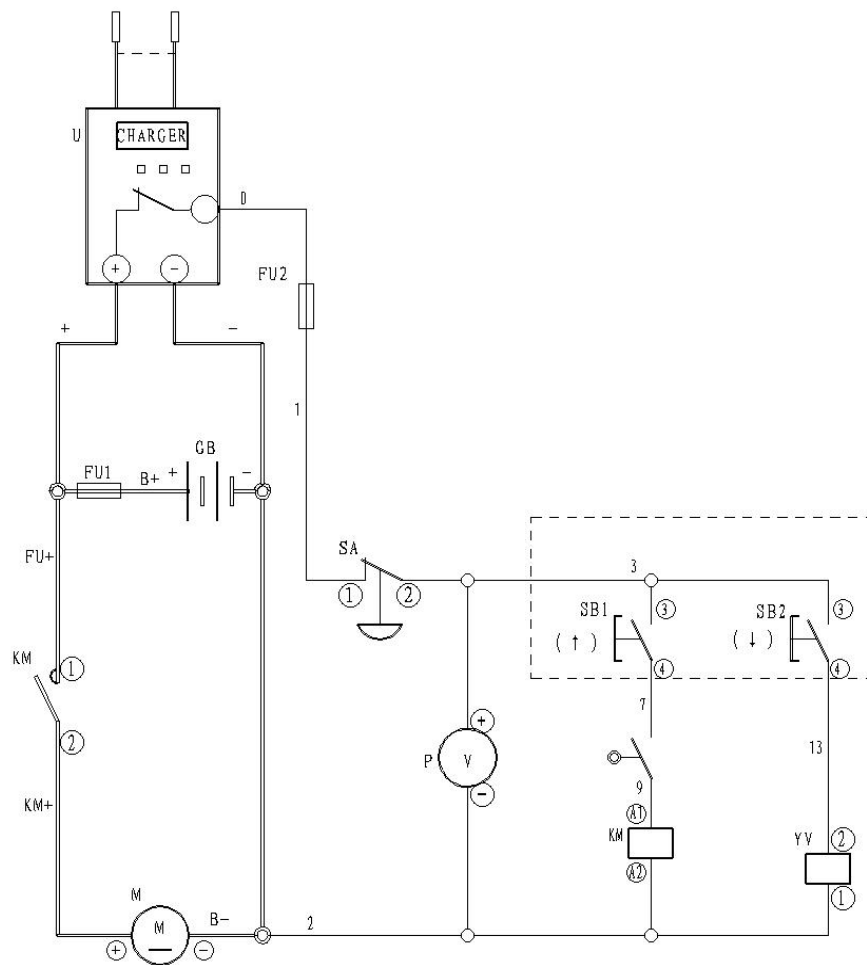
8. TROUBLE SHOOTING

| TROUBLE | CAUSE | REPAIR |
|---|--|---|
| Table does not rise while motor does not run. | 1. Faulty wiring. | 1.Check the wiring refering to the actual wiring diagram. |
| | 2.Battery cord is disconnected. | 2.Connent the battery cord . |
| | 3.Battery charge is insufficient. | 3. Charge the battery. |
| Table does not rise while motor runs. | 1.Faulty adjustment of relief valve | 1.Adjust relief valve again. |
| | 2.Faulty hydraulic pump. | 2.Replace power pack. |
| | 3.shortage of hydraulic oil. | 3.Add oil. |
| Vertical creep of table | 1.Oil leakagein lowering valve . | 1.Replace lowering valve. |
| | 2.Oil leakage from hydraulic circuit | 2.Check hydraulic circuit and repair. |
| Oil leakage from cylinder | Faulty sealing. | Replace sealing. |
| Oil leakage from piping or joint. | Insufficient tightening. | Tighten joint again. |
| Oil leakage from air breathing | Excessive quantity of oil | Reduce oil quantity. |
| Battery fail to be charged | Battery is worn out | Replace battery |
| Charger shows abnormal by red flash | 1.charger is not connected to breaker. | Connect cord to breaker. |
| | 2.Poles are reverse inconnection. | Interchange the connection of poles |

9. SPECIFICATIONS

| Model | ETF30 | ETF50 | ETF75 | ETFD35 |
|-----------------------------|--------------|--------------|--------------|--------------|
| Capacity (kg) | 300 | 500 | 750 | 350 |
| Table Size (mm) | 850x500 | 1010x520 | 1000x510 | 910x500 |
| Max Table Height (mm) | 880 | 1025 | 970 | 1300 |
| Min Table Height (mm) | 290 | 440 | 420 | 370 |
| Dimensions (mm) LxWxH | 1145x500x920 | 1305x520x970 | 1345x600x936 | 1205x500x920 |
| Vertical Travel (mm) | 590 | 585 | 550 | 930 |
| Lifting Motor (DC24V KW) | 0.8 | 0.8 | 0.8 | 0.8 |
| Battery | 4x12v15Ah | 2x12v24Ah | 4x12v15Ah | 4x12v15Ah |
| Charger (built-in) 24V3A | 8.5Hr | 8.5Hr | 8.5Hr | 8.5Hr |
| Approx Lifting Speed | 10 | 10 | 12 | 10 |
| Wheel Dia | φ 125 | φ 150 | φ 150 | φ 125 |
| Weight (kgs) | 116 | 157 | 160 | 142 |

10. WIRING DIAGRAM/ HYDRAULIC CIRCUIT



HYDRAULIC CIRCUIT

