Instruction Manual

ELECTRIC LIFT TABLE

Model:ESW511L ESW1011L



Note: Owner/Operator must read and understand this instruction Manual before using the lift & tilt table.

ELECTRIC LIFT TABLE

Model ESW511L ESW1011L

Instruction Manual

READ THIS OPERATION MANUAL COMPLETELY BEFORE USING.THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.IF THIS IS LOST, PLEASE CONTACT YOUR LOCAL SUPPLIER FOR A NEW COPY.IF THE WARNING/CAUTION DECAL 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 death or serious injury. CAUTION means the danger, which can lead slight injury or property damage.

1. WARNING

1. DO NOT allow another person to stand in front of or behind lifter when it starts to move.
2. ALWAYS travel with table in lowered position. Load could fall down.
3. NEVER sit, stand or ride on platform. SEVERE PERSONAL INJURY could result.
4. NEVER go under platform. SEVERE PERSONAL INJURY or DEATH could result.
5. DO NOT use in area of multilevel floor surface that could create loss control and result in SEVERE INJURY and PROPERTY DAMAGE.
6. DO NOT use lifter on slope, uneven or soft surface. Lifter may become uncontrollable. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
7. KEEP FEET CLEAR of rolling wheels that could result in SEVERE PERSONAL INJURY.
8. DO NOT load one fork more than the other and DO NOT load tips on table. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
9. DO NOT overload lifter. ALWAYS stay within designated capacity and load center rating. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
10. SHEARING HAZARD. NEVER place hands or feet under lowering table. SEVERE PERSONAL INJURY could result.
11. NO FIRE during charging. Read battery operation manual.
12. HIGH VOLTAGE. Disconnect battery socket before opening control panel box.
13. DO NOT remove battery terminal cover. Short-circuit or electric shock could occur.

2. CAUTION

1. Hazard or unsafe practice, which, if not avoided, may result in MINOR or MODERATE PERSONAL INJURY and PROPERTY DAMAGE.
2. READ THE OPERATION MANUAL COMPLETELY BEFORE USING AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.
3. This lifter is designed to use with stable uniform load on a solid lever floor. DO NOT use the lifter for any other purpose than its intended use.
4. TRAINED personnel shall operate lifter only. OPERATOR shall read “Operation Manual” completely and thoroughly understand the controls and operation of this equipment BEFORE operating the lifter.
5. ALWAYS observe lifter and ALWAYS stay at the controls while the lifter is in motion, RELEASE controls and STOP lifter immediately if load on lifter appears to become unstable. NEVER leave the loaded lifter unattended unless the table is in the fully lowered position and the lifter is locked reliably.
6. DO NOT slide the load on or off the table. The lift may move allowing the load to fall. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
7. DO NOT use lifter with unstable, unbalanced or loosely stacked load. Unbalanced loads may become unstable and fall. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
8. Qualified personnel must perform ALL lifter service only.
9. ALWAYS keep feet, hands and fingers away from casters, load wheels and all moving components. SEVERE INJURY could result.
10. ALWAYS perform maintenance and inspections with lifter unloaded.
11. Prolonged continuous working might cause damage of power pack.
12. Stop operation if temperature of hydraulic oil is too high.

The lifter is NOT waterproof and is intended to be used in a dry environment.

3. DAILY INSPECTION

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

CAUTION
DO NOT use lifter if any malfunction or faulty is found.

(1) Check scratches, bending or crack on the lifter.
(2) Check smooth movement of the wheels.
(3) Check if there is oil leakage.
(4) Check vertical creep of table.
(5) Check the function of brake.
(6) Check if all the bolts and nuts are tightened firmly.

4.NAME OF PARTS ESW511L ESW1011L



1.Handle	4.Platform
2.Switch	5. Link
3.Brake Pedal	6.Guide rail

5. OPERATING LIFT TABLE

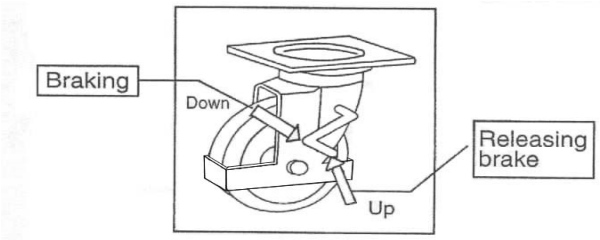
How to use the brake.

CAUTION
Brake lift table when not moving it in order to prevent sudden movement.

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

(1) Brake the wheel, press the brake pedal.

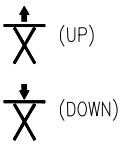
(2) Releasing the brake, lift up the brake pedal.

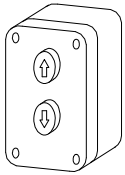


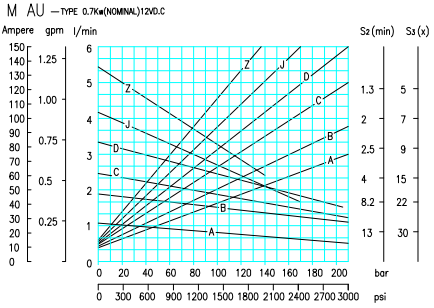
6. LIFTING UP FORKS

CAUTION
1. DO NOT overload lifter. Stay within its rated capacity.
2. Prolonged continuous working might cause damage of hydraulic power pack.
3. Step operation if temperature of hydraulic oil is too high.

Push the button “UP” and the table lifts up.







TYPE OF PUMP

A	GR.0.5 - 0.25	D	GR.0.5 - 0.75
B	GR.0.5 - 0.45	J	GR.0.5 - 0.92
C	GR.0.5 - 0.56	Z	GR.0.5 - 1.26

—— Curve S2 defines the maximum running time of the D.C. Motor expressed in a minutes.

—— Curve S3 expresses the on-off ratio in % which has value S3 in a total work cycle (100%).

7.LOWERING TABLE

CAUTION
DO NOT lower table with load too fast and stop suddenly. Impact load could be created and lifter could be damaged.

Push the button DOWN and the table lower.

8.MOVING THE LIFTER

WARNING
DO NOT move lifter on slope or inclined surface, otherwise lifter become uncontrollable and create danger.

(1) Make the load stable to prevent it to fall.
(2) Lower the table down.
(3) Release the brake and move the lifter.

CAUTION
KEEP watching the condition of load. Stop operating lifter if load become unstable.

9.CHARGING THE BATTERY

(1) Check the quantity of Battery fluid. If it is insufficient, add the battery solution according to battery operation manual.
(2) Disconnect the battery socket.
(3) Connect the charging port of battery socket to the battery charger.

10.REGULAR INSPECTION

Perform the regular inspection for the safety operation.

(1) Check the items expressed in daily inspection (daily).
(2) Lubricate with grease the guides where roller moves. Also, lubricate the grease nipples. (Every month)
(3) Lubricate all the pivoting points and axles. (Every 6 months)
(4) Replace the hydraulic oil for the first time: Accumulated working ten hours'
(5) Replace the hydraulic oil. (Every 12 months)

11.TROUBLE SHOOTING

TROUBLE	CAUSE	REPAIR
Platform does not rise while motor does not run.	1.Faulty wiring.	1.Check the wiring referring to the actual wiring diagram.
	2.Battery socket is disconnected	2.Connect the battery socket.
	3.Battery charge is insufficient.	3.Charge the battery.
Platform 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 leakage in power pack.	1.Replace lowering valve.
	2.Oil leakage form hydraulic circuit.	2.Check hydraulic circuit and repair.
Oil leakage from cylinder.	Faulty sealing.	Replace sealing.
Oil leakage from piping or joint.	Insufficient tightening or seal in valid.	Tighten joint again or Replace seal.
Oil leakage from air breather.	Excessive quantity of oil.	Reduce oil quantity.

12. SPECIFICATIONS

Model	ESW511L	ESW1011L
Capacity (kg)	500	1000
Table (mm)	800×1200	800×1200
Min. table height H (mm)	470	490
Max. Table height H1 (mm)	1280	1280
Lifting stroke (mm)	810	790
Motor (KW)	0.7	0.7
Work cycle of hydraulic power pack	3 times of table moving up-down per 10 min.	
Approx. numbers of lifting at full charge and with full load (times)	75	65
Approx. time required lifting up table. (Sec)	15-25	15-30
Wheel (mm, diameter)	200	200
Handle height (mm)	1090	1090
Weight (kg)	261	268

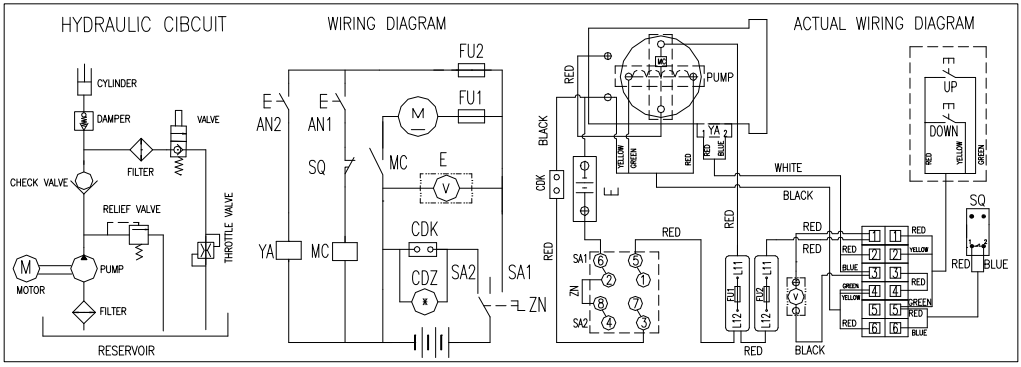
Weighing Accuracy:

When table height is between H~ (H+ 40%Stroke) : accuracy is ±0.1%

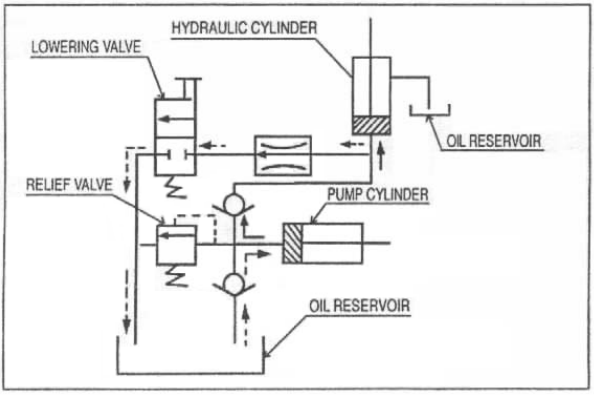
When table height is more than (H+ 40%Stroke) : accuracy is ±0.2%

Suggestion: make the table at the lowest height for weighing

13. HYDRAULIC CIRCUIT/WIRING DIAGRAM/ACTUAL WIRING DIAGRAM



14. Hydraulic Circuit



常州市祥瑞液压设备有限公司
CHANGZHOU XIANGRUI HYDRAULIC EQUIPMENT CO.,LTD.