

Instruction Manual



Lift Table

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

1.



WARNING! *If operating the lift table improperly, a person may be seriously injured. Therefore, operate properly according to the following instruction*

- ◇ Read & thoroughly understand the Instruction Manual completely before using. Follow all safety instructions strictly.
- ◇ It is necessary to check all safety devices before operation.
- ◇ Make sure that there are no obstacles in the working area.
- ◇ Do not put foot or hand in scissors mechanism or through frame.
- ◇ Screw the lifting eyes on the base frame before working on the lift table.
- ◇ Do not overload the lift table. Load should be distributed on the table according to relevant load distribution chart.
- ◇ Pay attention if local voltage and frequency is as same as the input specification of the lift table.
- ◇ Use the lift table on flat and solid ground.
- ◇ All the electrical connection and disconnection operations must be carried out by skilled and competent personal.
- ◇ While operation, it is forbidden to contact the moving parts of the lift table.
- ◇ While the lift table moving, it is forbidden to adjust or to move the load.
- ◇ It is forbidden to lift the load, which perhaps does harm to a person or other object.
- ◇ It is forbidden to operate the lift table while a person is under the table.
- ◇ Do not adjust the safety valve of hydraulic power pack.
- ◇ It is forbidden to operate the lift table even if there is small structure distortion.
- ◇ Do not use in an explosive or flammable place.

2.



CAUTION!

If operating the lift table improperly, a person may be injured. Therefore, operate properly according to the following instruction.

- ◇ The lift table is a movable lifter designed to lift or lower rated load. Do not use it for other purpose.
- ◇ Do not allow a person to operate the lift table, who does not understand its operation.
- ◇ It is forbidden to change the lift table without manufacturer's written admission.
- ◇ It is necessary to use the spare parts designated by manufacturer.
- ◇ Make sure to keep a distance between the table and ambient objects enough to operate the lift table safely.
- ◇ Keep the hydraulic system under clean and safe condition.
- ◇ The hydraulic power pack features an electric lowering control. The coils must be fed with the required voltage as described on those coils. The power supply voltage should not exceed $\pm 10\%$ of the rated required voltage.
- ◇ Always do maintenance and routine check while the lift table is unloaded.
- ◇ The lift table is not waterproof and should be used in a dry environment.

3. DAILY INSPECTION

Daily inspection is effective to find the malfunction or fault on the lift table. Before operation, check the lift table according to the following points.



CAUTION! Do not use the lift table if any malfunction or fault is found.

- ◇ Check all the terms of WARNING and CAUTION.
- ◇ Check scratches, bending or crack on the lift table.
- ◇ Check smooth movement of the table.
- ◇ Check if there is any hydraulic oil leakage.
- ◇ Check the vertical creep of the table.
- ◇ Check if all the bolts and nuts are firmly tightened.

4. Operating the lift table

■ LOADING

The maximum capacity of the lift table is 1000kg. Load should be distributed on the lift table equably.

■ Lifting the Table



CAUTION! Do not overload the lift table.
Ensure the balance of loading. Do not load partially or concentrically.

- ◇ Screw and loose emergency stop switch.
- ◇ Push the UP button and power pack starts to work to lift the load.
- ◇ Loose the UP button and power pack stops working.

■ LOWERING THE TABLE



WARNING! Do not put foot or hand in scissors mechanism.

- ◇ Push the DOWN button and the table will lower.
- ◇ Loose the DOWN button and the table will stop.

NOTE

- ◇ The table is equipped with an aluminum guard to avoid accidental danger.
- ◇ If aluminum guard strikes an object while the table lowers, stop operation and check the lift table. After making sure no any abnormality, strike the UP button slightly and then the electric system will function as before.

■ EMERGENCY STOP

There are two methods of emergency stop as follows.

- ◇ Push down the emergency stop switch and the movement of table stops.
- ◇ Strike aluminum guard upward and the movement of table also stops.

■ TRANSPORTATION

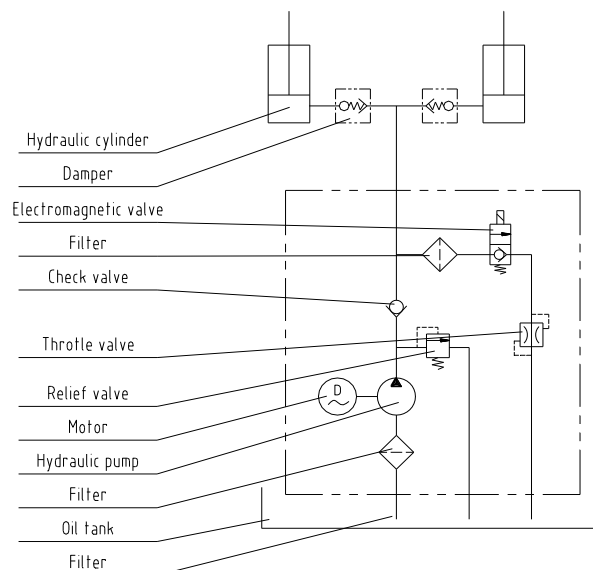
If necessary, the lift table can be transported with attached ringbolts.

- ◇ Pay attention to the maximum capacity of lifting equipment to be used.
- ◇ Keep the ringbolts with reasonableness.

5.. SPECIFICATIONS

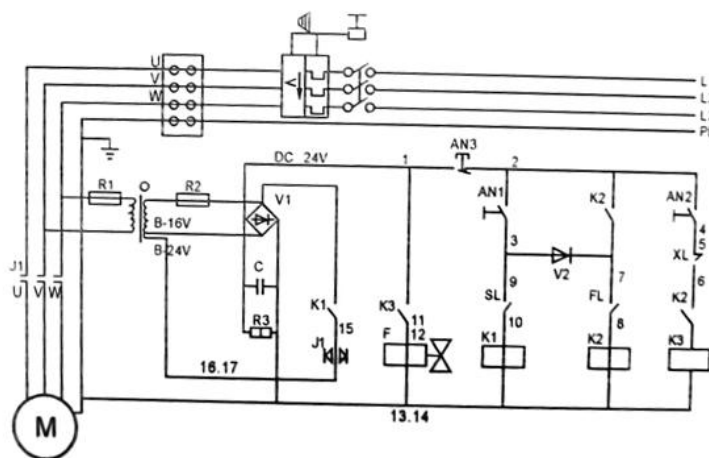
Model	Capacity (kgs)	Min./Max. Platform Height (mm)	Platform Size (mm)	Pump Station	Voltage
YLF1001	1000	205-900	1300x820	1.1 KW	380V/50HZ
YLF1002			1600x1000		
YLF1003		240-1300	1700x850		
YLF1004			1700x1000		
YLF1005			2000x850		
YLF1006			2000x1000		
YLF1007			1700x1500		
YLF1008			2000x1700		
YLF2001	2000	230-1000	1300x850	2.2 KW	
YLF2002			1600x1000		
YLF2003		250-1300	1700x850		
YLF2004			1700x1000		
YLF2005			2000x850		
YLF2006			2000x1000		
YLF2007			1700x1500		
YLF2008			250-1400		
YLF4001	4000	240-1050	1700x1200	2.2 KW	
YLF4002			2000x1200		
YLF4003		300-1400	2000x1000		
YLF4004			2000x1200		
YLF4005			2200x1000		
YLF4006			2200x1200		
YLF4007		350-1300	1700x1500		
YLF4008			2200x1800		

6. HYDRAULIC CIRCUIT DIAGRAM :



7. ELECTRIC PRINCIPLE DIAGRAM

Three phase wiring diagram
 Rated power voltage AC //50Hz-60Hz
 110V 120V 220V 230V 240V
 380V 415V 440V 460V 480V



8. SERVICE INSTRUCTIONS

- (1) Do routine check of fasteners, packing and oil leaking.
- (2) Do routine check of the function of the lift table.
- (3) Before service the lift table, make sure to turn off the AC power supply.
- (4) After service it is necessary to check the function of the lift table again.
- (5) ONLY a qualified personnel can do service work.
- (6) Do routine check of the micro-switches on the safety guard.
- (7) Do routine check of the hydraulic system by listening its noise, touch motor's surface.
- (8) Caution: It is necessary to turn off the AC power supply before touch motor's surface.
- (9) Pay attention to clear or even replace the oil filter after operating for a long time.
- (10) Appropriate lubrication is necessary to make the lift table work easily and have a prolonged service life.
- (11) Following table is recommended to service the lift table periodically.

Content	After every 500 hours' working or every 3 months later	After every 2000 hours' working or every year
Check oil level of oil tank	☆	
Check the cleanliness of oil filter	☆	
Fasten all the connecting parts again	☆	
Check wear and tear of pressure oil pipes	☆	
Check hydraulic cylinder	☆	
Fix main parts tightly again	☆	
Check the function of micro-switches	☆	
Check whole working state of the lift table	☆	
Lubricate all the joints and pivot points	☆	
Check wear and tear of all axial bushes		☆
Replace hydraulic oil for the first time	Accumulated working ten hours'	
Replace hydraulic oil		☆
Check oil leaking		☆

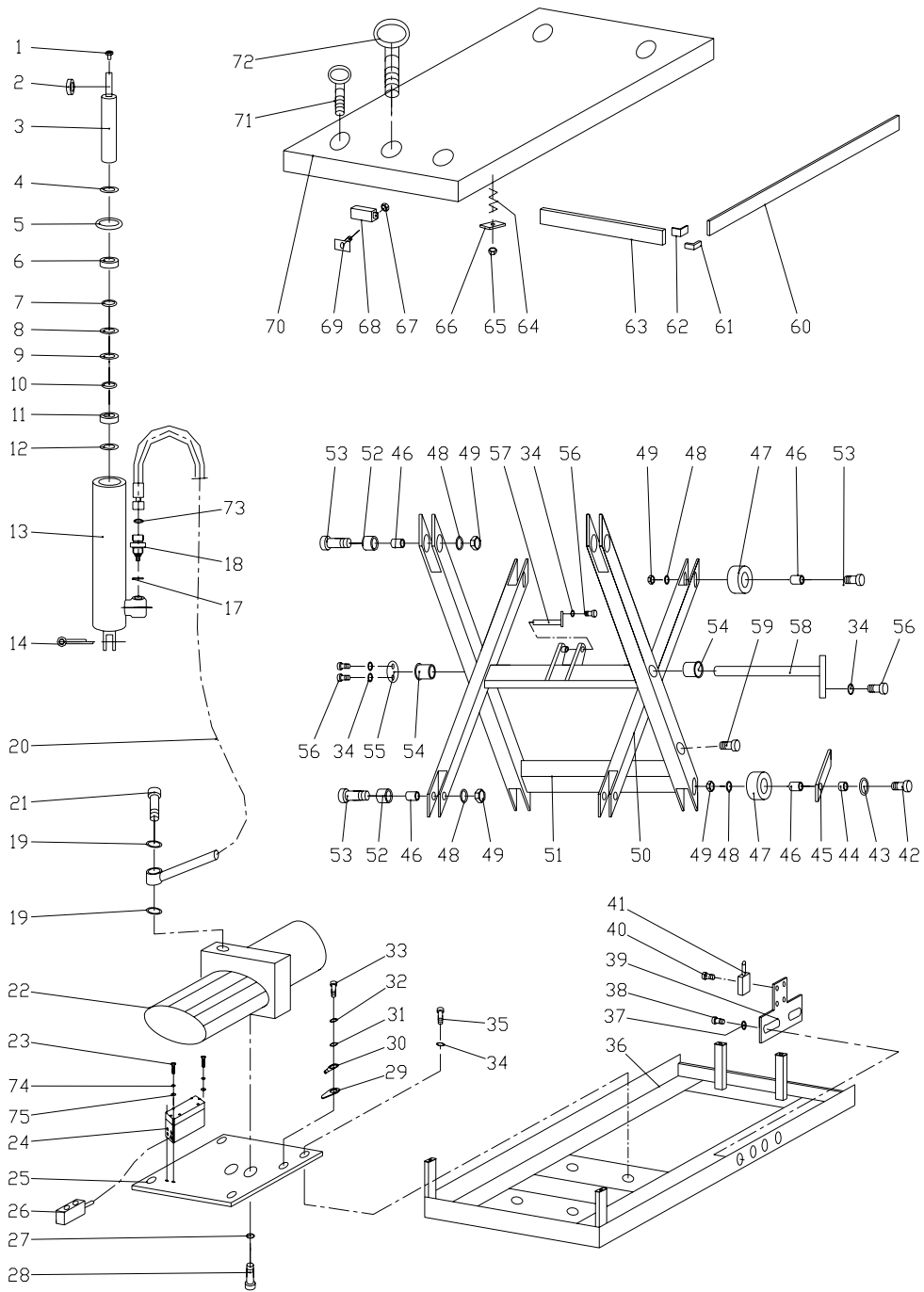
Remark: ☆ stands for proceeding the item.

9. TROUBLE SHOOTING

Note: Before service it is necessary to screw two eyebolts into relevant screw-holes on the basis lest the table lowers accidentally.

Trouble	Cause	Remedy
Table cannot lift while motor works normally	<ul style="list-style-type: none"> ◇ Eyebolt has not been removed ◇ AC voltage phrases mistake ◇ Electromagnetic dysfunctions ◇ The table is overloaded 	<ul style="list-style-type: none"> ◇ Remove eyebolt ◇ Correct AC voltage phrase ◇ Check the function of electromagnetic valve and repair it ◇ Remove excessive load
Table cannot lift and motor does not work	<ul style="list-style-type: none"> ◇ Lowering limit switch (if existed) damaged 	<ul style="list-style-type: none"> ◇ Replace limit switch
Table cannot lower	<ul style="list-style-type: none"> ◇ Lowering limit switch or micro-switch on safety guard damaged ◇ Electromagnetic valve dysfunctions ◇ Safety guard works ◇ Something wrong with electric circuit board 	<ul style="list-style-type: none"> ◇ Replace lowering limit switch or micro-switch. ◇ Check the function of electromagnetic valve and repair it ◇ Strike the UP button slightly ◇ Replace electric circuit board
Table's legs go over limit position (if existed) while table lowers	<ul style="list-style-type: none"> ◇ Internal leaking in electromagnetic valve ◇ Packing damaged in hydraulic cylinder 	<ul style="list-style-type: none"> ◇ Repair electromagnetic valve and if necessary replace it ◇ Check and replace packing
Table cannot reach the highest position	<ul style="list-style-type: none"> ◇ Oil not enough ◇ Limit switch damaged 	<ul style="list-style-type: none"> ◇ Fill enough oil ◇ Check and repair limit switch. If necessary, replace it

LIFT TABLE



LIFT TABLE SPARE PARTS LIST

NO	DESCRIPTION	QTY	NO	DESCRIPTION	QTY
1.	Grease cup M6	1	40	Bolt M5×10	4
2.	Bearing GE30ZS	1	41	Travel switch (ME-9101)	1
3.	Piston rod	1	42	Bolt M12×70	2
4.	Seal cover 52×40×7	1	43	Washer 12	2
5.	Retaining ring ϕ 75	1	44	Bushing	2
6.	Cylinder cover	1	45	Prop	2
7.	O-ring 40×2.65	1	46	Bushing	8
8.	Snap ring ϕ 80	1	47	Roller	4
9.	O-ring 75×2.65	1	48	Spring washer 12	8
10.	Snap ring ϕ 40	1	49	Nut M12	8
11.	Piston	1	50	Internal scissors	1
12.	Seal ring 80×60×22.3	1	51	External scissors	1
13.	Cylinder	1	52	Bushing ϕ 20× ϕ 18×15	8
14.	Split pin 4×35	1	53	Bolt M12×60	6
17.	Seal ring 16	1	54	Bushing	2
18.	Hose break valve	1	55	Washer	1
19.	Seal ring 14	2	56	Hex headed screw bolt M8×20	4
20.	High pressure hose	1	57	Pin	1
21.	Joint	1	58	Pin	1
22.	Hydraulic power pack	1	59	Bolt	2
23.	Bolt M5×10	4	60	Safety frame I	2
24.	Electric box	1	61	Fixed-board	4
25.	Pump pack base	1	62	Connected-board	4
26.	Control switch	1	63	Safety frame II	2
27.	Spring washer 10	1	64	Spring	4
28.	Hex socket screw bolt M10×20	1	65	Nut M8	4
29.	Indicator ϕ 6	1	66	Buffer-board	4
30.	Connector lug ϕ 6-4	1	67	Nut	4
31.	Washer 6	1	68	Safety switch	2
32.	Spring washer 6	1	69	Fixed-board	4
33.	Bolt M6×12	1	70	Table	1
34.	Spring washer 8	8	71	Lifting bolt M10	4
35.	Bolt M8×10	4	72	Lifting bolt M16	1
36.	Chassis	1	73	O-ring 9.5×1.8	1
37.	Washer 6	2	74	Spring washer 5	4
38.	Bolt M6×10	2	75	Washer 5	4
39.	Frame of travel switch	1			