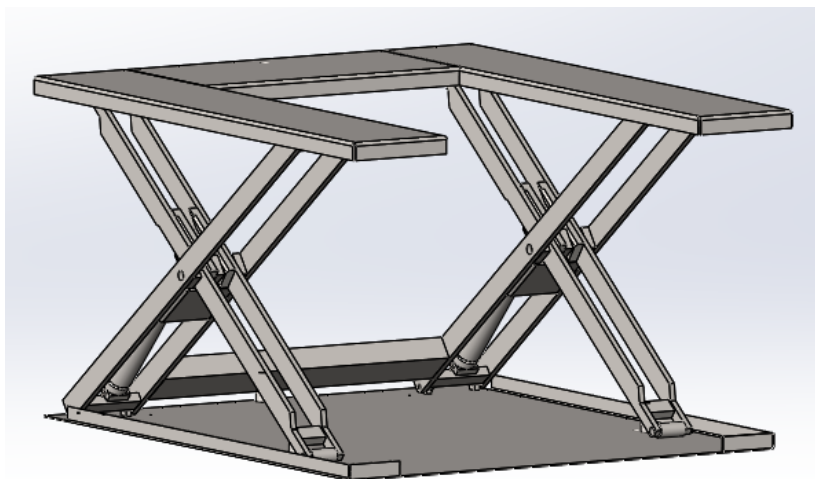




USER MANUAL

U-Shape Power Scissor Lift Table



MODEL NO. 293232



Owner/Operator must read and understand this manual

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 2200 lbs. 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		293232
Capacity	(lbs.)	2200
Collapsed Height	(in.)	3.35
Max. Height	(in.)	33.50
Platform Length	(in.)	59
Platform Width	(in.)	50
Approx. Lifting Time with Rated Capacity (Sec)		25~35
Motor	Horsepower (HP)	2P/1.5KW
	Voltage (V)	110
Net Weight		(lbs.) 572

6.HYDRAULIC CIRCUIT & ELECTRIC PRINCIPLE DIAGRAM

See Figure 1 & Figure 2.

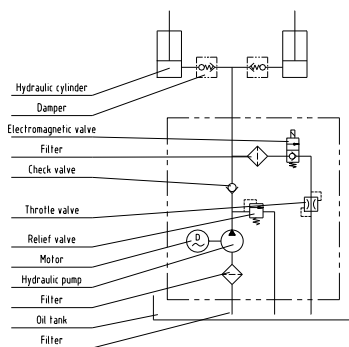
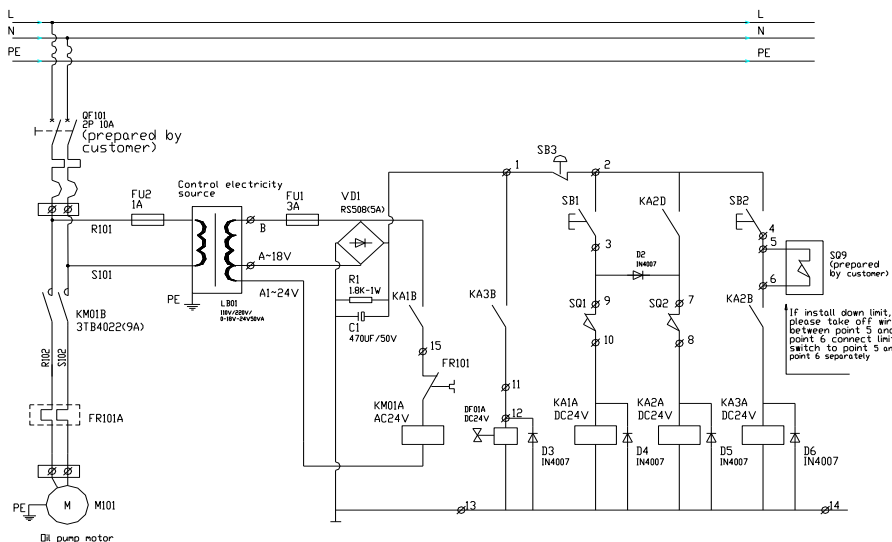


Fig. 1 Hydraulic circuit



No	Type	Name	Description	Qty
1	LB01	Control electricity source transformer	JBK3-110V/0-18V-24V 50VA JBK3-220V/0-18V-24V 50VA	1
2	F1	Fast melter	3A	1
3	F2	Fast melter	1A	1
4	VD1	Whole bridge silicon rectifier	RS-507 5A	1
5	R1	Resistor	1.8K/1W	1
6	C1	Electrolysis capacitor	470uF/50V	1
7	KM01	AC contactor	3TB4022	1
8	KA1 KA2 KA3	Middle relay	SRC-24VDC-SH	3
9	D2 D3 D4 D5 D6	Silicon commute diode	IN4007	5
10	DF01	Oil pump solenoid valve	DC24V	1
11	SB3	Emergency stop button	XB2-ES542C+ZB-BY9101	1
12	SB2	Down button	XB2-BA21C	1
13	SB1	Up button	XB2-BA21C	1
14	SQ1	Up limit switch	ME/8104	1
15	SQ2	Protection switch	ME/8104	7
16	SQ9	Down limit switch	D4V-8108Z(Prepared by customer)	1
17	M101	Oil pump motor		1
18	QF101	Breaker	C45N 2P 25A(Prepared by customer)	1
19	FR101	Hot relay	this pare is optional according to customer 's request	1

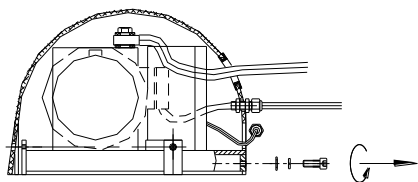
Fig. 2 Electric Principle Diagram

7.SERVICE INSTRUCTIONS

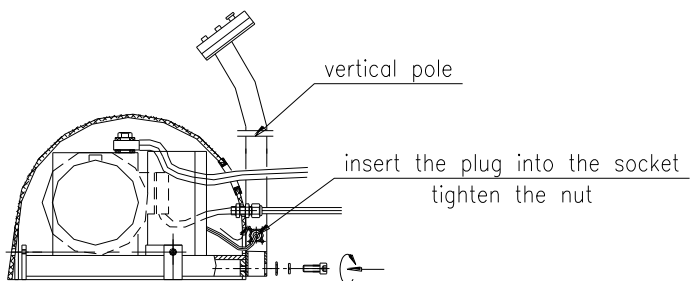
- Do routine check of fasteners, packing and oil leaking.
 - Do routine check of the function of the lift table.
 - Before service the lift table, make sure to turn off the AC power supply.
 - After service it is necessary to check the function of the lift table again.
 - ONLY qualified personnel can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

Instruction for Power Pack Installment

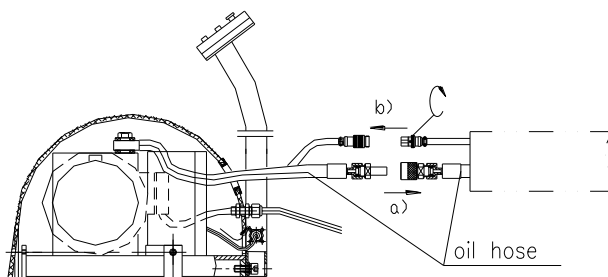


1. Loosen the bolt



2. a) Install the vertical pole and the cover by tightening the crew as being showed in the figure;

b) Insert the plug connecting with the electeic box into the socket on the pole,then tighten the screw.



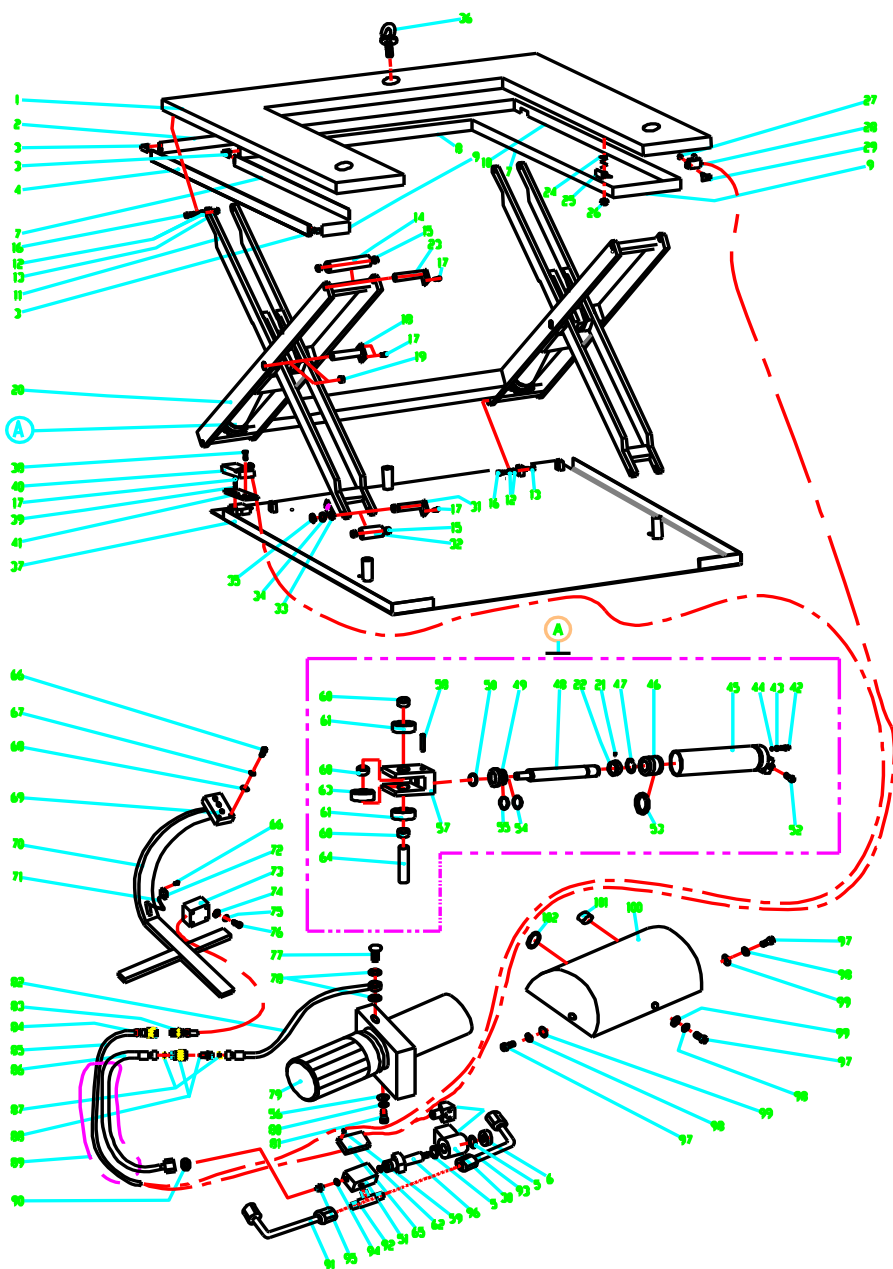
2. a) Insert the plug into the socket ,then tighten the screw. showed in the figure;

b) Insert the plug into the socket ,then tighten the screw.

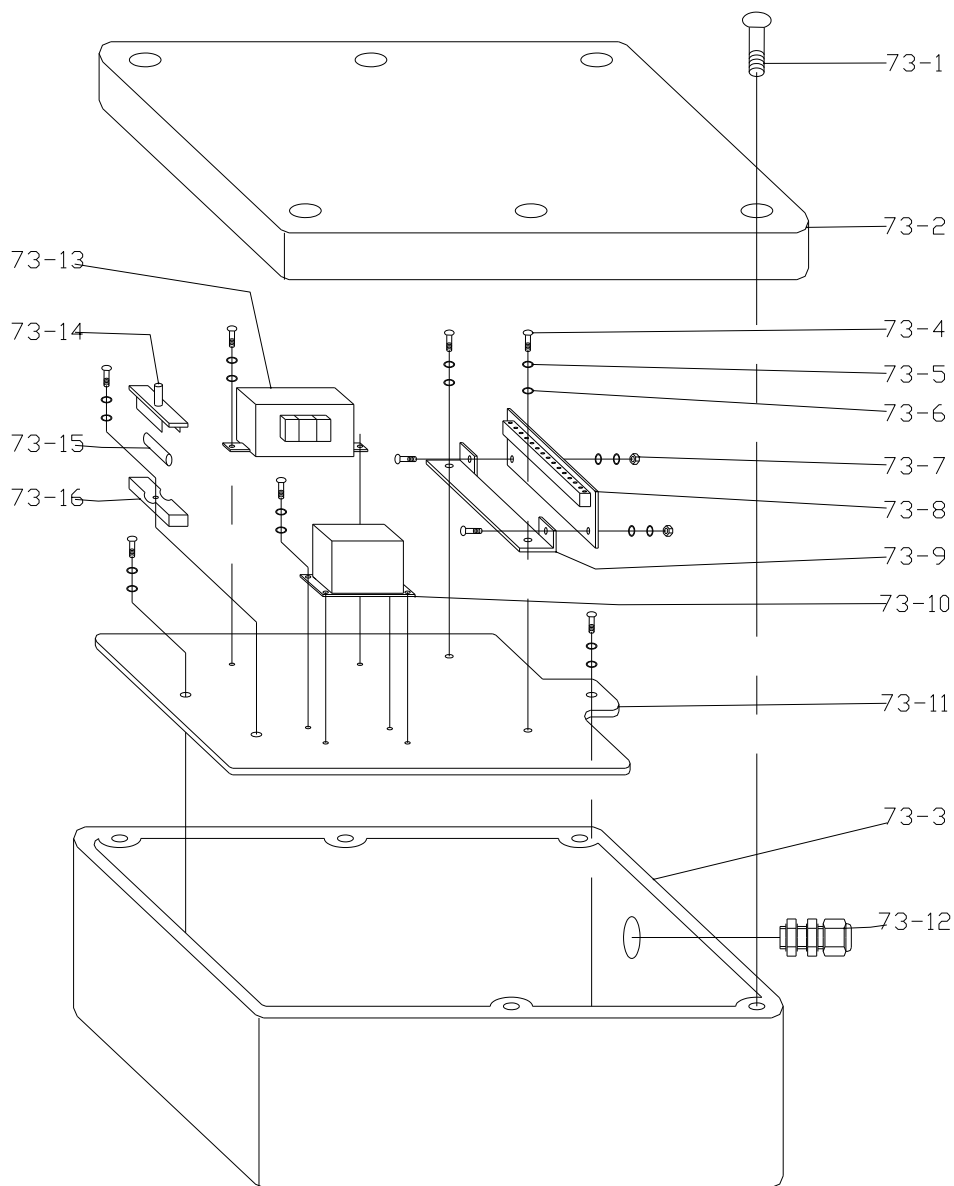
8.TROUBLE SHOOTING

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



ELECTRICAL BOX (73)



PART LIST MODEL NO. 293232

No	Description	Qty	No	Description	Qty
1	Table	1	30	Electromagnetic valve coil	1
2	Width safety guard I	1	31	axle	2
3	Connected-board	8	32	Roller	2
4	Long safety guard I	1	33	Safeguard	2
5	O-ringφ10.6x2.65	2	34	Washer 20	2
6	Nut	1	35	Retaining ring for axle 20	2
7	Long safety guard II	2	36	Eyebolt	3
8	Width safety guard II	1	37	Chassis	1
9	Width safety guardIII	2	38	Screw M4×25	2
10	Long safety guardIII	1	39	Washer6	1
11	Internal scissor	2	40	Switch	1
12	Bushing	16	41	Mounted plate	1
13	Locknut M10	8	42	Hose break valve	2
14	Roller	2	43	Seal ring	2
15	Bushing	8	44	Explosion proof valve	2
16	Screw M10×45	8	45	Cylinder tube	2
17	Screw M6×16	8	46	Piston	2
18	axle	2	47	Snap Ring 25	2
19	Bushing	4	48	Piston rod	2
20	External scissor	1	49	Cylinder cover	2
21	Screw M6×8	1	50	Seal cover	2
22	Sleeve	1	51	Electromagnetic valve seat	1
23	axle	2	52	Screw M8×20	4
24	Spring	10	53	Packing Assembly	2
25	Buffer-board	10	54	Guide ring	2
26	Locknut M8	10	55	O-ring φ 50x2.65	2
27	Nut M4	10	56	Washer 10	2
28	Safety switch	5	57	Roller base	2
29	Fixed-board	10	58	Screw M6×8	2

59	Screw M4×16	2	73-16	Socket for fuse	1
60	Bushing	6	74	Washer 4	2
61	Roller	4	75	Spring washer 4	2
62	O-ring D24x2.4	1	76	Screw	2
63	Middle roller	2	77	Pipe-joint	1
64	Roller axle	2	78	Seal ring 14	2
65	Branch box	1	79	Hydraulic power pack	1
66	Screw M3x10	8	80	Spring washer 10	2
67	Spring washer 3	4	81	Screw M10x20	2
68	Washer 3	4	82	High pressure hose I	1
69	Control switch	1	83	Plug	1
70	Hydraulic-pump unit base	1	84	Socket	1
71	Control wire	1 set	85	Switch wire	1
72	Plug	1 set	86	High pressure hose II	1
73	Electrical box	1	87	Nylon seal	2
73-1	Screw	6	88	Ball valve	1
73-2	Cover	1	89	High pressure hose set	1
73-3	Box	1	90	O-ring ϕ 10x1.8	1
73-4	Screw M4x10	13	91	Long tube assembly	1
73-5	Spring washer 4	13	92	T joint	1
73-6	Washer 4	13	93	Short tube assembly	1
73-7	Nut M4	2	94	Seal ring 16	1
73-8	Connection block plate	1	95	Hose break valve	1
73-9	Support	1	96	Electromagnetic valve	1
73-10	Switch	1	97	Screw M6x12	3
73-11	Board	1	98	Spring washer 6	3
73-12	Plastic joint	5 set	99	Washer 6	3
73-13	Transformer	1	100	Power-unit cover	1
73-14	Plug for fuse	1	101	Plastic joint	1
73-15	Fuse	1	102	Rubber bush	1