



Instruction Manual

Powered Scissors Lift Table

Part Number: 270662



Note: Operator MUST read and understand these operating instructions before using this Powered Scissors Lift Table.

TABLE OF CONTENTS

1	General Information	2
1.1	Description.....	2
1.2	Specifications.....	2
2	Safety Information.....	2
3	Pre-Operation Procedures.....	2
3.1	Inspection.....	3
3.2	Bolting Down the Lift Table.....	3
4	Operation.....	3
4.1	Lifting the Table.....	3
4.2	Lowering the Table.....	3
4.3	Emergency Stop.....	3
4.4	Transportation.....	3
5	Hydraulic Circuit & Electric Principle Diagrams.....	4
6	Maintenance.....	5
6.1	Routine Maintenance.....	5
7	Trouble Shooting.....	6
8	General Assembly Part Information.....	7
8.1	General Assembly Part Diagram.....	7
8.2	General Assembly Part List.....	8
9	Electric Box Part Information.....	9
9.1	Electric Box Part Diagram.....	9
9.2	Electric Box Part List.....	9

ATTENTION: TO INSURE SAFE AND EASY USE OF YOUR POWERED LIFT TABLE,
READ THESE INSTRUCTIONS ENTIRELY BEFORE USING.

1. GENERAL INFORMATION

1.1 DESCRIPTION

Thank you for purchasing a Powered Scissor Lift Table. These lift tables are heavy duty to handle tough loads, yet small and light enough to move. It features a perimeter toe guard, push button station and a 2,200 lb capacity.

1.2 SPECIFICATIONS

Part Number	270662	
Model	MELT	
Capacity (lbs)	2,200 lbs	
Collapsed Height (in)	7"	
Max. Bearing Height (in)	30.3"	
Table Length	36"	
Table Width	24"	
Table Thickness	.2"	
Approximate Lifting Time while Loaded	15-20 sec	
Motor	Output	1,100 W
	Voltage	400 V
	Revolution	1,400 r/min
	Protection Class	IP.54
	Insulation Class	F.
Net Weight	253 lbs	

Materials and specifications are subject to change without notice.

2. SAFETY INFORMATION

- 1) The lift table is a movable lifter designed to lift or lower rated loads. Do not use it for other purpose.
- 2) Only trained and authorized personnel should be permitted to operate this machine.
- 3) Check all safety devices before operation.
- 4) Always do maintenance and routine checks while the lift table is unloaded.
- 5) Do not insert hands or feet in the scissors mechanism or through the frame.
- 6) Do not overload the lift table beyond the rated capacity. The load should be distributed on the table evenly.
- 7) Note if local voltage and frequency are the same as the input specification of the lift table
- 8) Use the lift table on flat and solid ground.
- 9) Do not contact the moving parts of the lift table during operation.
- 10) While the lift table moving, it is forbidden to adjust or to move the load.
- 11) Do not operate the lift table while a person is under the table.
- 12) Do not adjust the safety valve of hydraulic power pack.
- 13) Do not operate the lift table if there is even a small structural distortion
- 14) It is forbidden to change the lift table without manufacturer's written admission.
- 15) It is necessary to use the spare parts designated by manufacturer.
- 16) Keep the hydraulic system under clean and safe condition.
- 17) 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.

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3. PRE-OPERATION PROCEDURES

3.1 INSPECTION

The operator should perform a visual inspection prior to each work shift to discover if anything is wrong

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 for scratches, bending or crack on the lift table.
- Check for 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.

3.2 BOLTING DOWN THE LIFT TABLE

The Powered Scissors Lift Table must be fixed to the floor/ground by means of expander bolts are securely affixed on the floor to prevent unintentional movement.

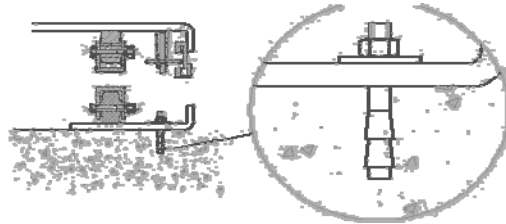


Figure 1

4. OPERATION

4.1 LIFTING THE TABLE

CAUTION! *Do not overload the lift table.*

- 1) *Ensure the load is balanced. Do not load partially or concentrically.*
- 2) Screw and loose emergency stop switch.
- 3) Push the “UP” button and the power pack starts to work to lift the load.
- 4) Release the “UP” button and the power pack stops working.

4.2 LOWERING THE TABLE

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

- 1) Push the “DOWN” button and the table will lower.
- 2) Release the “DOWN” button and the table will stop.

NOTE: The table is equipped with an aluminum guard to avoid accidental danger. If the aluminum guard strikes an object while the table is lowering, stop operation and check the lift table. After making sure no abnormality has occurred, strike the “UP” button slightly and then the electric system will resume functioning.

4.3 EMERGENCY STOP

There are two methods of emergency stopping as follow:

- 1) Push down the emergency stop switch and the table will stop moving.
- 2) Strike the aluminum guard upward and the table will stop moving.

4.4 TRANSPORTATION

- 1) If necessary, the lift table can be transported with attached ringbolts.
- 2) Pay attention to the maximum capacity of lifting equipment to be used.

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5. HYDRAULIC CIRCUIT & ELECTRIC PRINCIPLE DIAGRAM

5.1 Hydraulic Circuit Diagram

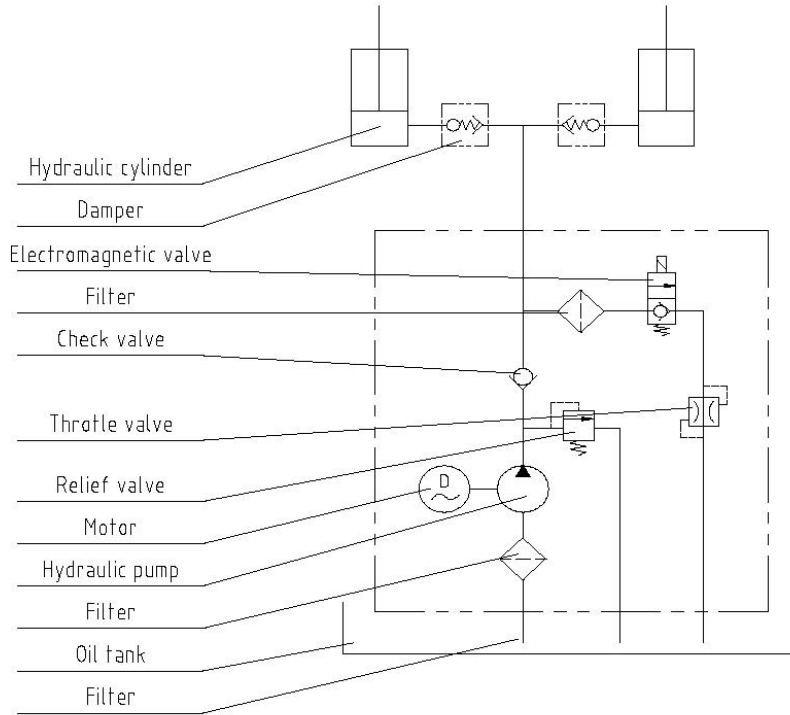


Figure 2

5.2 Electric Principle Diagram

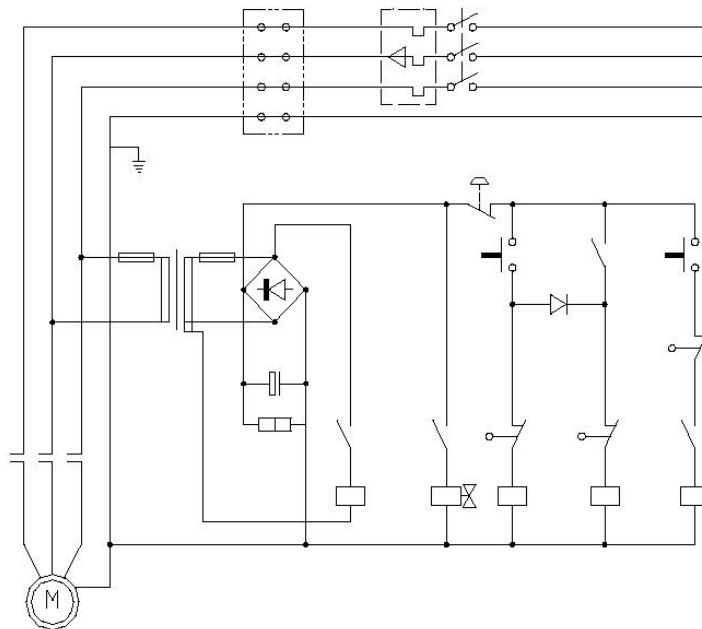


Figure 3

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6. MAINTENANCE

Any maintenance or repair shall be carried out by a trained qualified mechanic. Before servicing 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.

5.1 Routine Maintenance

Do routine checks/maintenance of the following:

- Fasteners, packing and oil leaking.
- Function of the lift table.
- Micro-switches on the safety guard.
- Oil filter, clear or even replace after operating for a long time
- Lubrication levels, determining if they are adequate to allow the lift table to work smoothly and have a prolonged service life.

Routine maintenance of the machine will prolong its working life. For the frequency of maintenance please refer to the table below.

Inspection Content	Monthly	Yearly
Check oil level of oil tank	•	
Check cleanliness of the oil filter	•	
Fasten all the connecting parts again	•	
Check wear and tear of pressure oil pipes	•	
Check hydraulic cylinder	•	
Affix main parts tightly again	•	
Check the function of micro-switches	•	
Check overall 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 10 working hours	
Replace hydraulic oil		•
Check for leaking oil		•

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7. TROUBLE SHOOTING

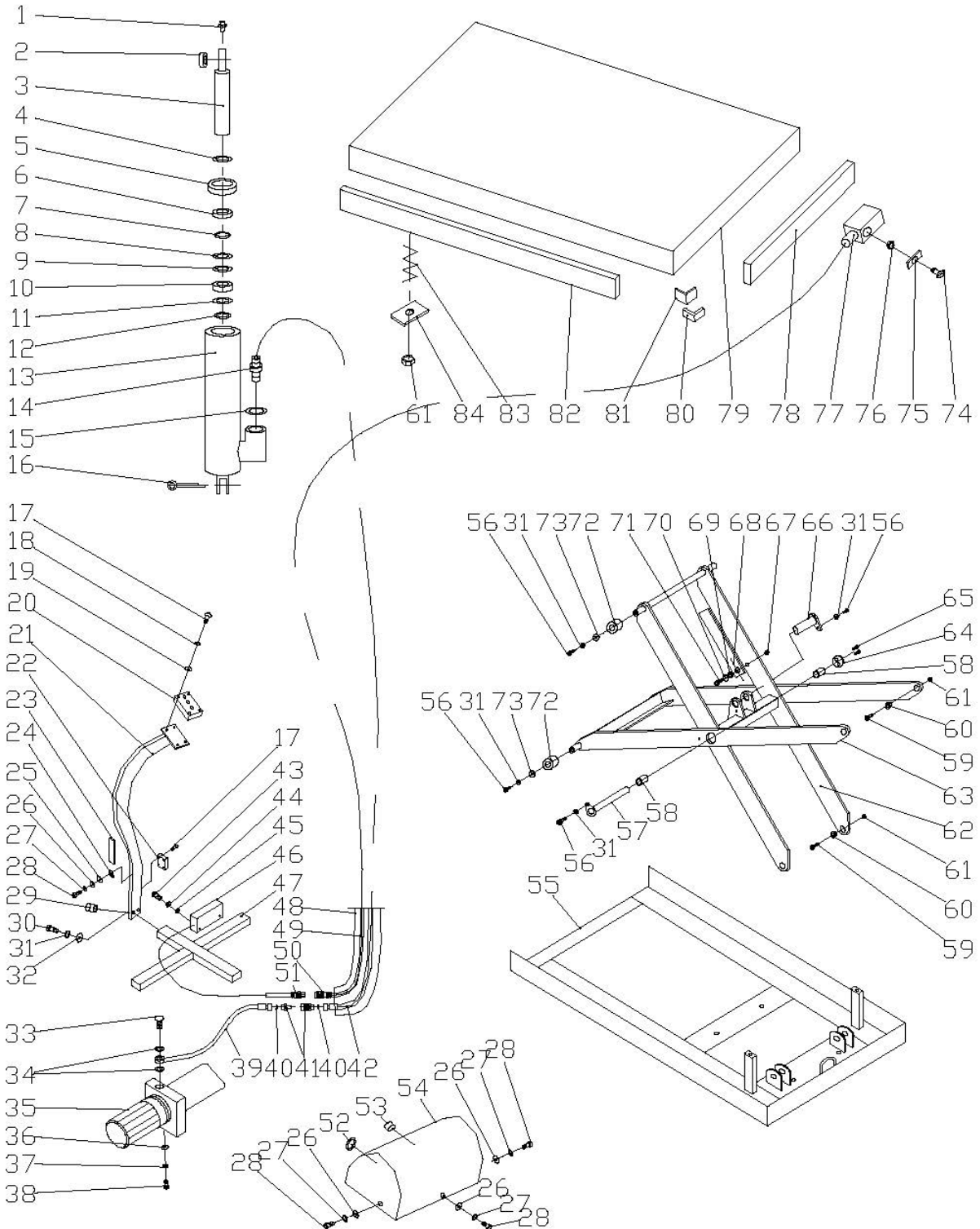
No	Problem	Causes	Solutions
1	Table cannot lift while motor is working normally	<ul style="list-style-type: none"> - AC voltage phase mistake. - Electromagnetic malfunctions. - The table is overloaded 	<ul style="list-style-type: none"> - Check AC voltage phase. - Check the function of electromagnetic valve and repair it - Remove excessive load
2	Table cannot lift and motor is not working	<ul style="list-style-type: none"> - Lowering limit switch damaged 	<ul style="list-style-type: none"> - Replace limit switch
3	Table cannot lower	<ul style="list-style-type: none"> - Lowering limit switch or micro-switch on safety guard damaged. - Electromagnetic valve malfunctions. - Safety guard works. - Electric circuit board is malfunctioning 	<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
4	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"> - Not enough oil - Limit switch damaged 	<ul style="list-style-type: none"> - Refill Oil - Check and repair limit switch. If necessary, replace it.

NOTE: DO NOT ATTEMPT TO REPAIR THE POWERED LIFT TABLE UNLESS YOU ARE TRAINED AND AUTHORIZED TO DO SO.

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8. GENERAL ASSEMBLY PART INFORMATION

8.1 GENERAL ASSEMBLY PART DIAGRAM



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8. GENERAL ASSEMBLY PART INFORMATION

8.2 GENERAL ASSEMBLY PART LIST

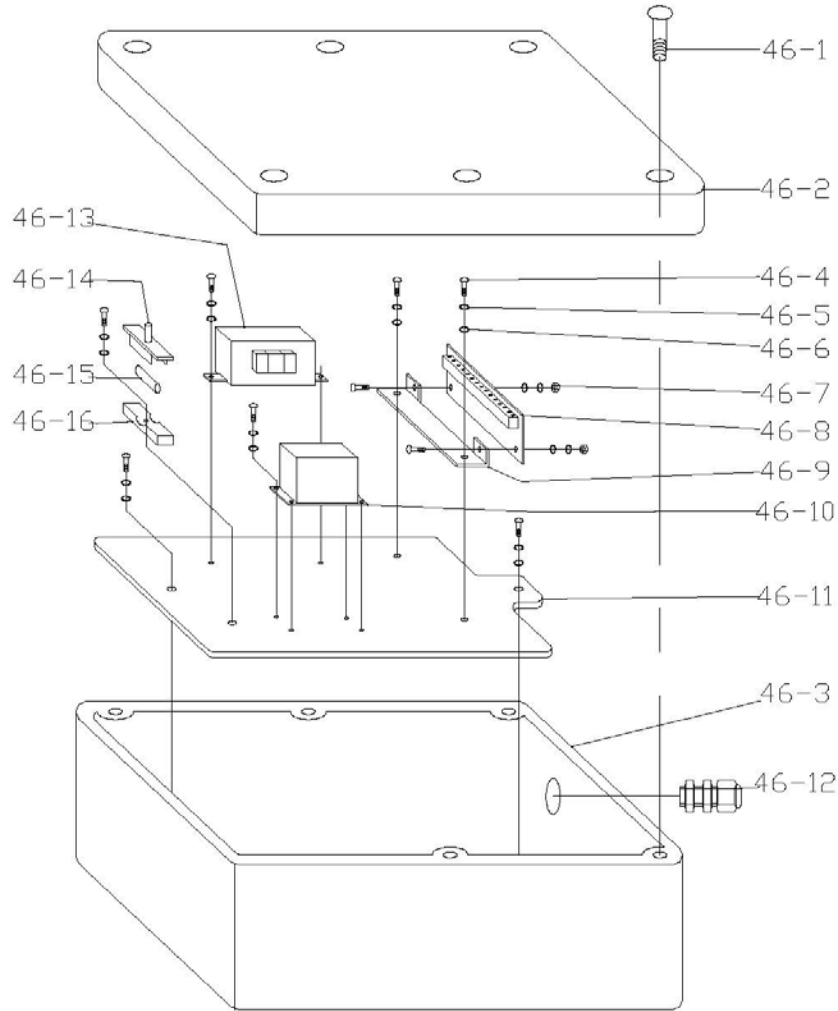
Item	Part Number	Item Description	Qty.
1		Grease Cup M6	1
2		Bearing GE25ZS	1
3		Piston Rod	1
4		Retaining Ring ϕ 75	1
5		Cylinder Cover	1
6		Seal Cover	1
7		Snap Ring ϕ 80	1
8		O-Ring ϕ 75 x 2.65	1
9		O-Ring ϕ 25 x 2.65	1
10		Piston	1
11		Seal Ring 80x60x22.3	1
12		Snap Ring ϕ 25	1
13		Cylinder	1
14		Hose Break Valve	1
15		Seal Ring 16	1
16		Split Pin 4 x 35	1
17		Bolt M3 x 10	8
18		Spring Washer 3	4
19		Washer 3	4
20		Control Switch	1
21		Support	1
22		Plug	1 Set
23		Label	1
24		Connector Lug ϕ 6-4	1
25		Indicator ϕ 6	1
26		Washer 6	4
27		Spring Washer 6	4
28		Bolt M6 x 12	4
29		Rubber Bush	1
30		Hex Socket Bolt M8 x 20	2
31		Spring Washer 8	8
32		Washer 8	2
33		Joint	1
34		Seal Ring 14	2
35		Hydraulic Power Pack	1
36		Washer 10	2
37		Spring Washer 10	2
38		Hex Socket Bolt M10 x 20	2
39		High Pressure Hose	1
40		Nylon Seal	2
41		Ball Valve	1 Set
42		High Pressure Hose	1

Item	Part Number	Item Description	Qty.
43		Bolt M4 x 16	2
44		Spring Washer 4	2
45		Washer 4	2
46		Electric Box	1
47		Pump Back Base	1
48		High Pressure Hose Set	1
49	270687	Switch Wire	1 Set
50	270689	Plug	1
51	270688	Socket	1
52		Rubber Bush	1
53		Plastic Joint	1
54		Power-Unit Cover	1
55		Chassis	1
56		Bolt M8 x 16	6
57		Pin	1
58		Bushing ϕ 28x ϕ 25x20	2
59		Bolt M8 x 45	4
60		Bushing	4
61		Locknut M8	8
62		Internal Scissors	1
63		External Scissors	1
64		Washer	1
65		Hex Socket Bolt M6 x 20	2
66		Pin	1
67		Locknut M14	2
68		Prop	2
69		Bushing	2
70		Washer 14	2
71		Bolt M14 x 45	2
72		Roller	4
73		Washer 8	4
74		Bolt M4 x 12	4
75		Fixed-Board	4
76		Nut M4	4
77	270690	Safety Switch	2
78		Safety Frame	2
79		Table	1
80		Fixed-Board	4
81		Connected-Board	4
82		Safety frame	2
83		Spring	4
84		Buffer-Board	4

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9. ELECTRIC BOX PART INFORMATION

9.1 ELECTRIC BOX PART DIAGRAM



9.2 ELECTRIC BOX PART DIAGRAM

Item	Part Number	Item Description	Qty.
46		Electric Box	1
46-1		Screw	6
46-2		Cover	1
46-3		Box	1
46-4		Screw M4 x 10	13
46-5		Spring Washer 4	13
46-6		Washer 4	13
46-7		Nut M4	2
46-8		Connection Block Plate	1

Item	Part Number	Item Description	Qty.
46-9		Support	1
46-10		Switch	1
46-11		Board	1
46-12		Plastic Joint	5 Set
46-13		Transformer	1
46-14		Plug for Fuse	1
46-15		Fuse	1
46-16		Socket for Fuse	1