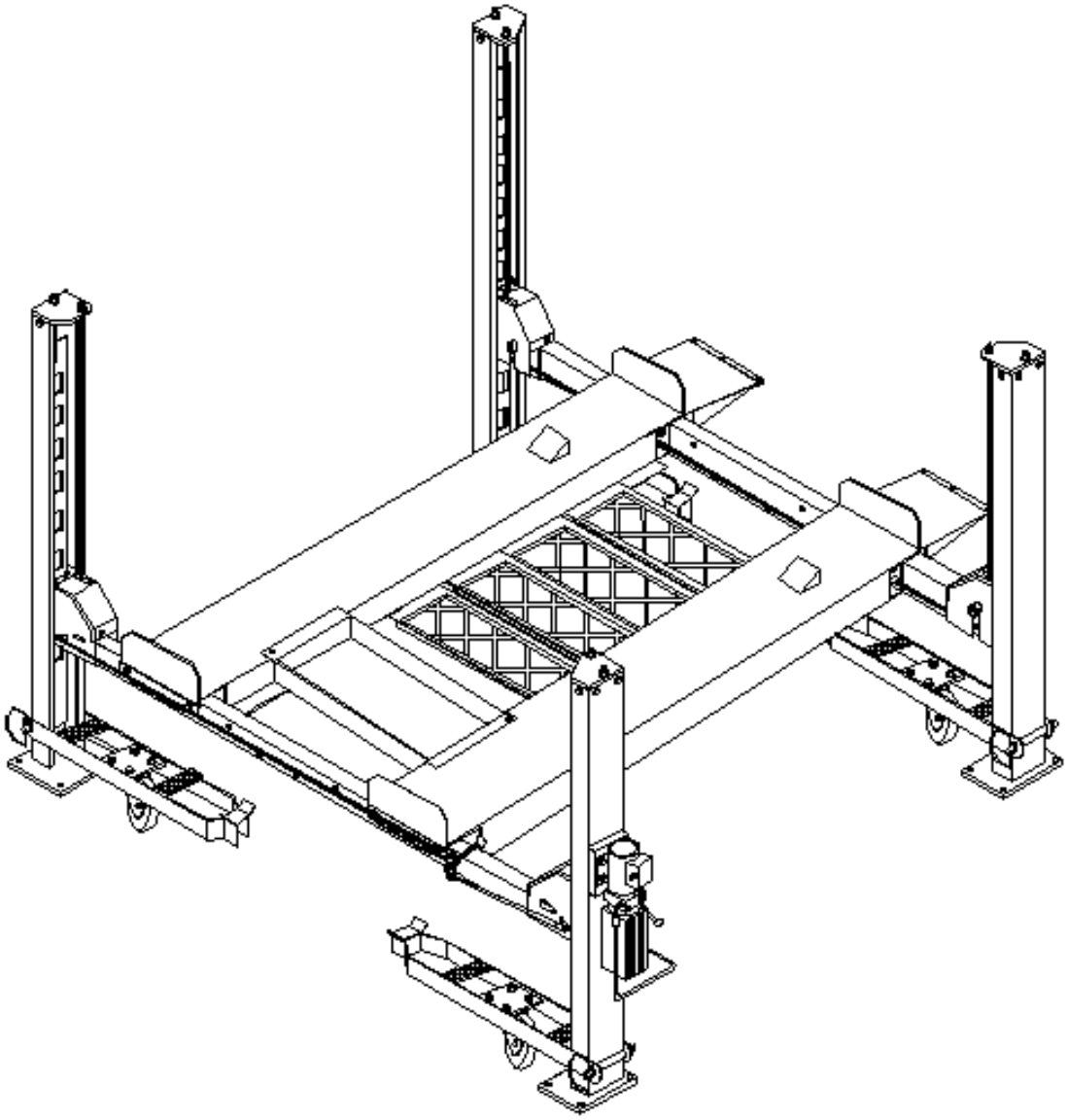
HIGH-LIFT EQUIPMENT

YL-3600-H
Installation & Operation Manual



Special Note

▲ Shipping process caused damage to the equipment by the purchaser claims to the carrier unit.

▲ Design and manufacturing, taking into account the safety performance. However, proper training and careful operation can also increase security. Not reading the manual, shall not operator repair the device.

▲ To identify the requirements of the motor nameplate power, current status, must be professionally qualified electrician electrical connection.

▲ To ensure that the life safety and to avoid electric shock accident occurred, to ensure reliable grounding of all ground.

▲ The anger of the local structure of the product improvement without notice. Under no obligation to update on previous sales of the product.

▲ Please read and fill out the last page of this manual, warranty card, and feedback to the dealer and the Company for the record. For providing one of the basis of after-sales service.Otherwise regarded as a waiver of the right to enjoy the same services at your own risk.

▲ Shall enhance more than the rated lift-off weight (3.6 tons) load.

▲ Reading devices on the warning signs carefully.

Table of Contents

1. Equipment performance

2. The basic parameters

3. Equipment Dimensions

4. The installation of equipment

5. Equipment debugging

6. Equipment maintenance and inspection

7. Parts of the device exploded view and schedule

8. Hydraulic system equipment and electrical component

9 . Common troubleshooting method

10. Packing list

11. **Wearing part list**

HIGH-LIFT

Equipment performance

- Set inspection, maintenance, parking as a whole, and beautiful appearance.
- Hydraulic cylinders drive, rope drive, quiet working environment.
- Mechanical safety lock, can any of the top job at the desired height, safe and reliable.
- The levelness of concrete slab in the locked position can be adjusted to meet the needs of the precise wheel alignment.
- Install the special wheel set make single people move equipment easy when no-load.

Basic parameters of the equipment

1. A rated lifting weight: 3.6 tons(8000Lbs)
2. Lifting height: 2185 mm
3. Min height: 125mm
4. Runway Length: 4200 mm
5. The runway width: 475 mm
5. Runway Inside Pitch: 954 mm
6. Power supply: 240V/50HZ 1HP (2.2KW)

The device dimensions of machine

Check the FIG 1

The installation of equipment

The first step: site selection

Before installing the new lift, pay attention to the following matters:

(1) The location of the lift, according to the design and planning of the entire plan requirements, as far as possible, place the dimension there is sufficient space.

(2) According Figure 1 foundation size , determine the installation location and carry out the dash.

(3) Make sure the ground does not have any defects to ensure that the basis of concrete strength of 3000psi (2.1kg/mm ²)

(4) Open the box to check whether the missing pieces and transport damage. Required by the packing list.

Step 2: Connect the runway and the beam (Figure 2)

Step 3: Install the four column parts (Figure 2)

Step 4: Install the power unit and pipeline joints(Figure 5)

Step 5: Install a safety lock device (Figure 3) (Figure 8)

Step 6: The power supply according to the requirements on the motor nameplate, add hydraulic oil.

Step 7: Jog up, observe the correct rope position (Figure 4) . Relieve the support under

the runway to runway decreased to the lowest point, adjusting the tension of the wire rope, the four unanimously.

Step 8: Adjust the position between the column components and beams . Requirements the slide board closest to column. Iron inserts to adjust the vertical column and the ground plane. Drilling bolt hole and tighten the bolt.

Step 9: Adjust the levelness of the runway. Ascending to a height. Measure the level, When need to adjust. Adjust nut（7）to the required position. Then lock.

Step 10: Install all plastic plate .

Step 11: Install running board and up ramp. (Figure 2)

Step 12: Stick all labels and finishing.

HIGH-LIFT

The debugging

☞ Hydraulic station to fill the tank pressurized oil N32 or N46

☞ To move the start button, so that the runway frame rise, removal of the support frame. Special attention to the first jog observe whether rope in the embrace of a round tank, location to be correct. (Figure 4)

☞ Pull the handle valve A8 in the unlocking state to observe the safety hook 48 ability to effectively disengage the insurance piece square hole 9 .

☞ Down the runway rack to lowest position, adjust the nuts on the four wire rope, so that tension is the same.

☞ Adjust the level of the runway: press the start button, the runway frame up by the appropriate location, drop the runway according to decline in valve on the hydraulic station. Make the safety hook into the safety hole. Level detection level of the runway,to be adjusted with reference to the installation Step 10.

☞ No-load test up and down twice, check each part is working properly. Runway lock reliability checks, and more repeated several times re-planted on the car to check the hydraulic system is working properly.

Special attention

▲ Vehicles parked on the runway braking and tire wedge.

▲ Lifting and lowering vehicles, pay attention to people and things around to keep their distance and not close to the lift.

▲ Maintenance man to enter the work area, check the runway should be properly locked in the column lift.

▲ Four column installation should be vertical to the ground plane, otherwise be dangerous to use!

▲ Decline before the operation must be the first point of action to rise a little, so that the lock block to leave the lift bar square hole in order to decline. Otherwise it will cause damage to the control mechanism

HIGH-LIFT

Maintenance and inspection notes

Routine maintenance and inspection

1. Work location of an operation to check the safety lock
2. Check safety lock and unlock the lift bar and padlock
3. Check hydraulic fittings, hose leaks
4. Check the wire rope connections - is bent, broken, loose.
5. Check the wear of the wire rope lifting process.
6. Check all retainer connection must be reliable connection.
7. Check all bolts, nuts, screws connection - found loose shall immediately tighten
8. Check wires and switches for damage.
9. Check expansion bolts around the foundation strength.
10. After the lift is put into use, oil refers to the gun at least once a year or at regular intervals on the cable axle lubrication

Weekly maintenance and inspection

1. Check the bolts strength and connections found loose, tighten immediately
2. Inspection inflation bolt around the foundation strength
3. Check the hydraulic oil liquid level
4. Check and tighten loose bolts, nuts, screws
5. Check all embrace round and embrace the axle with
6. Lubricate the cable wheel and cable axle
7. Check the wire rope wear, severe wear and tear be replaced immediately
8. Replace the hydraulic oil.

Parts of the device exploded view and schedule (In millimeters)

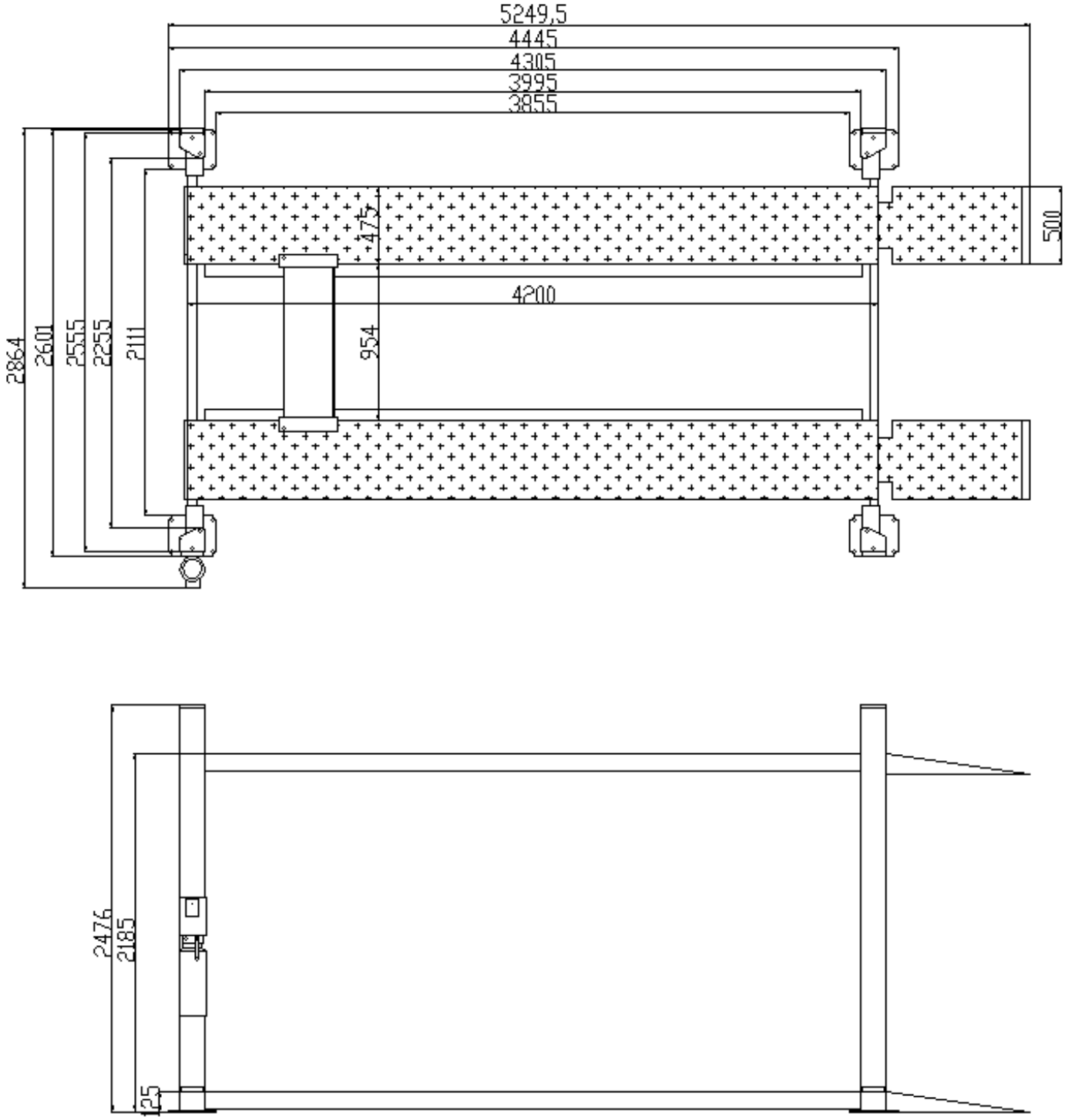


Figure 1

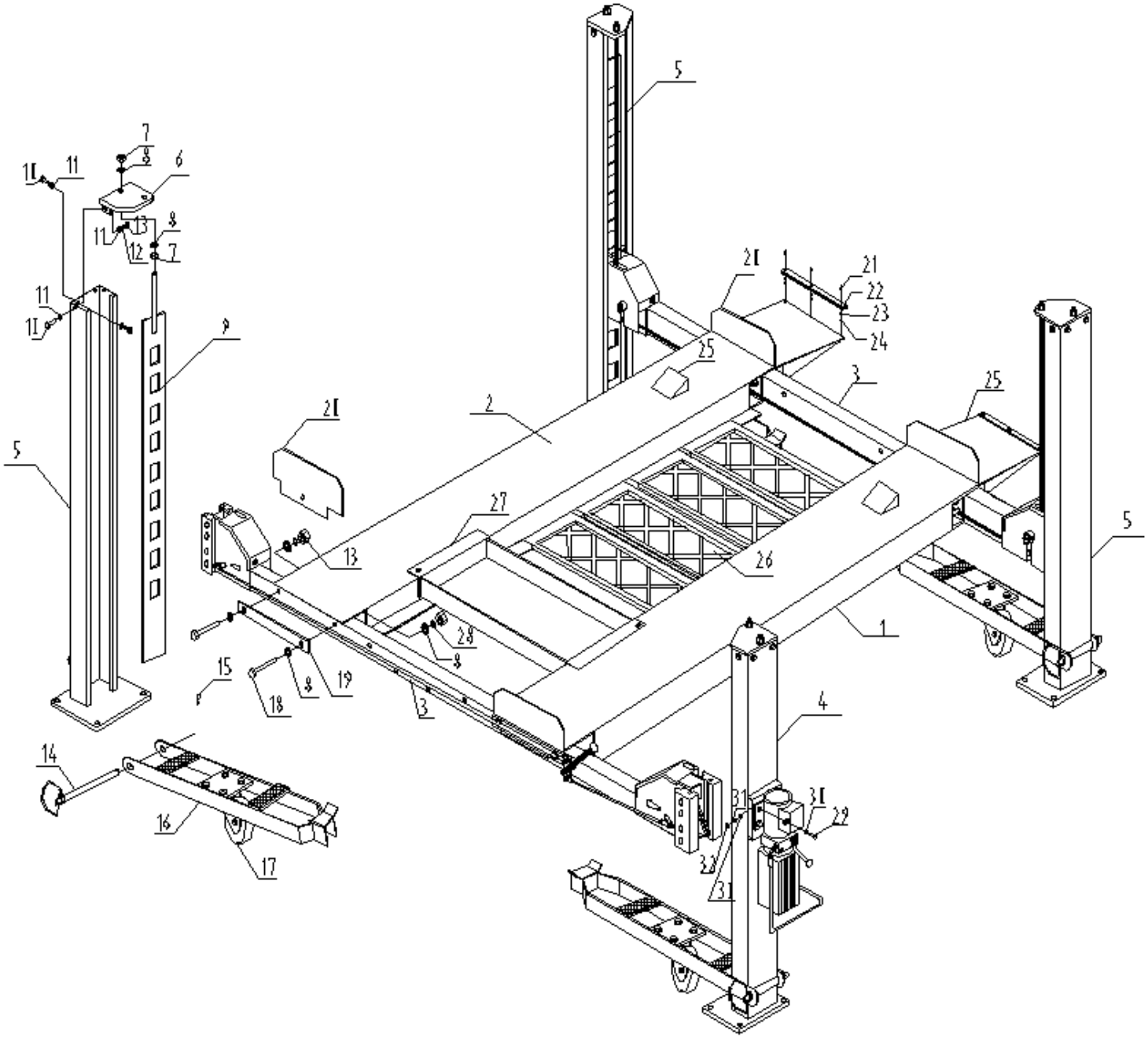

5
7
8
6
11
11
13
12
8
7
11
11
9
5
21
2
21
27
13
28
8
15
18
8
19
3
14
16
17
21
21
22
23
24
25
3
25
5
26
1
4
31
31
29
32
31

Figure 2

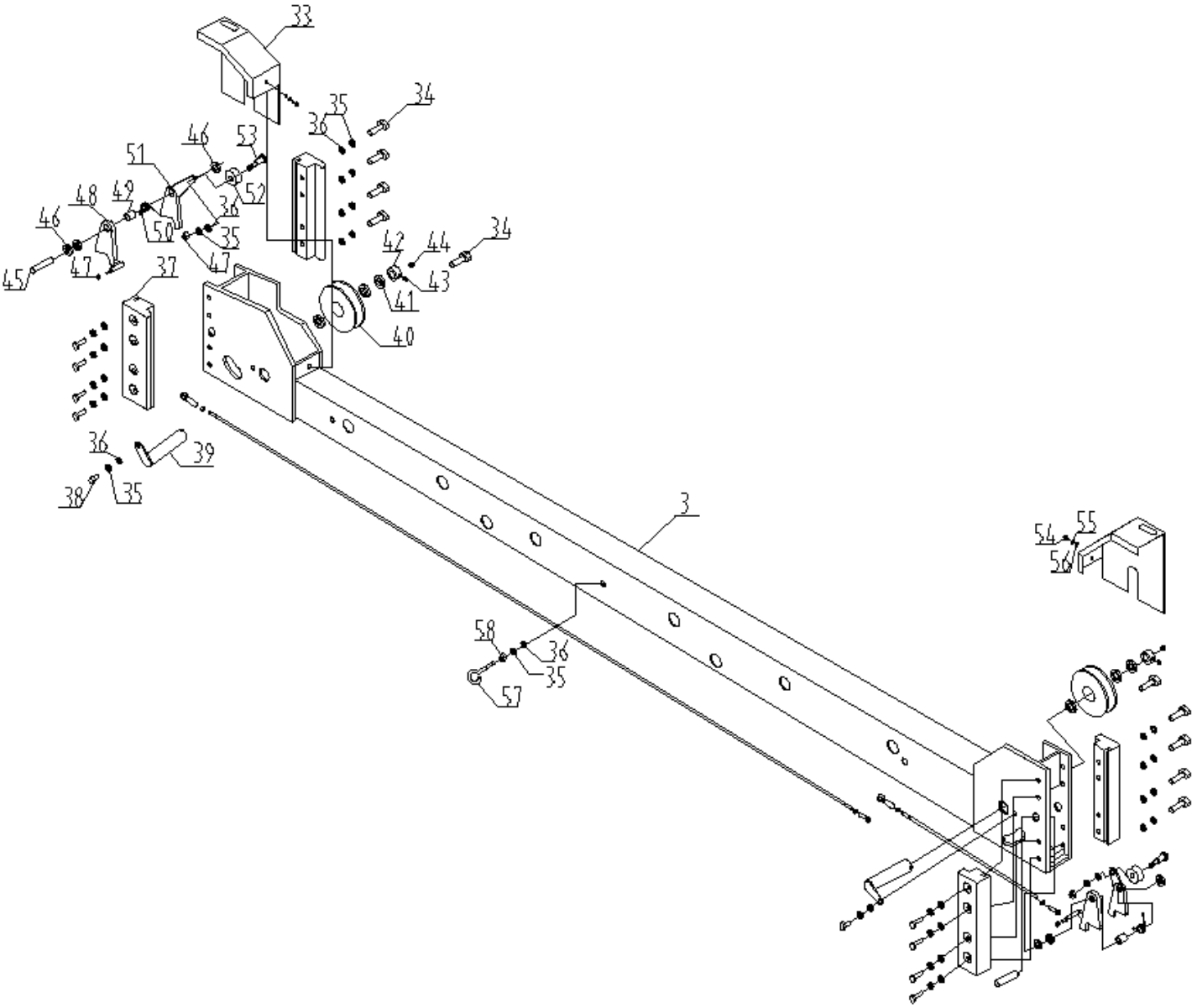

33
34
35
36
46
53
51
52
48
49
50
46
35
47
45
47
37
42
44
34
43
41
40
36
39
38
35
3
54
55
56
58
36
35
57

Figure 3

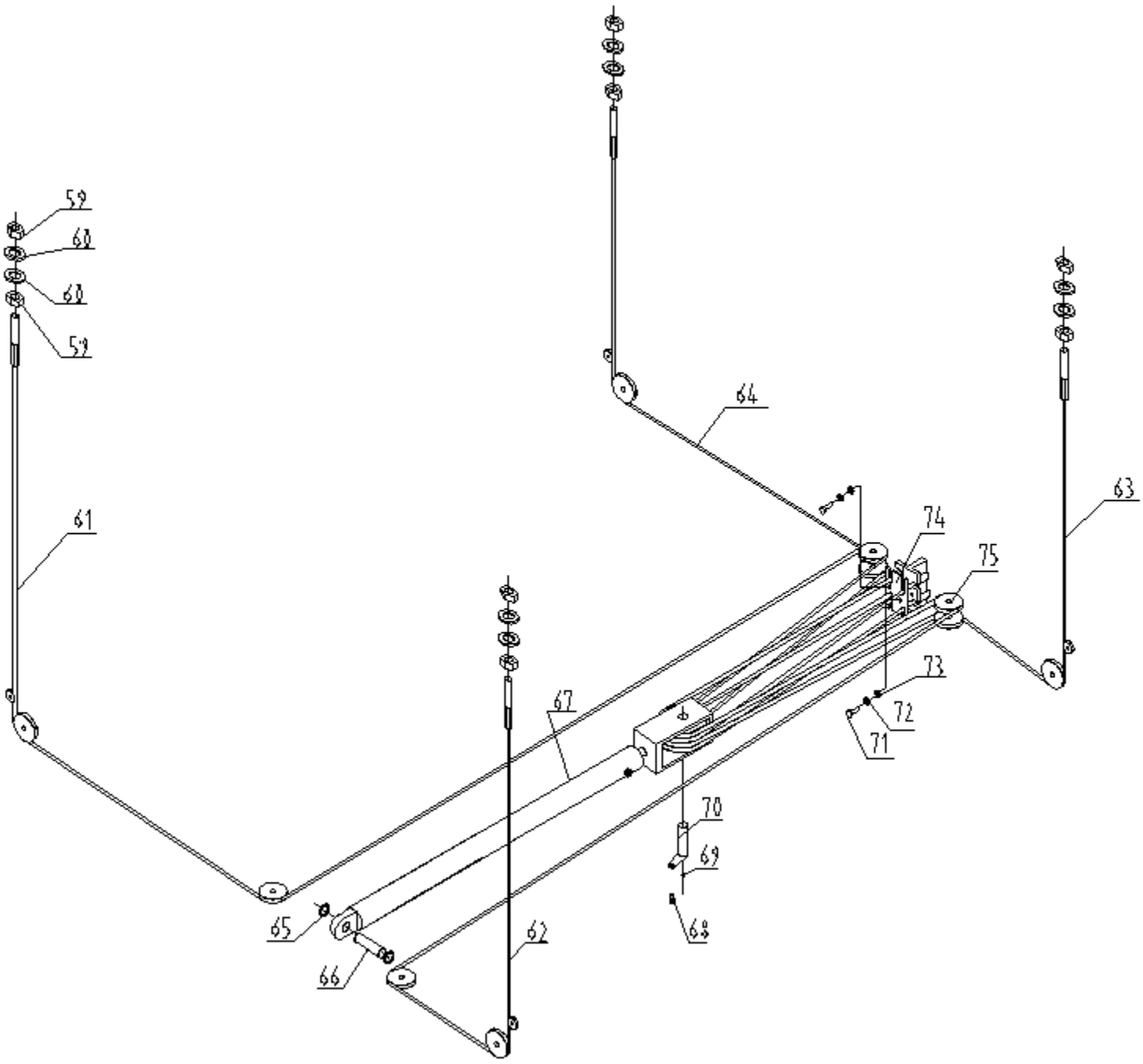


Figure 4

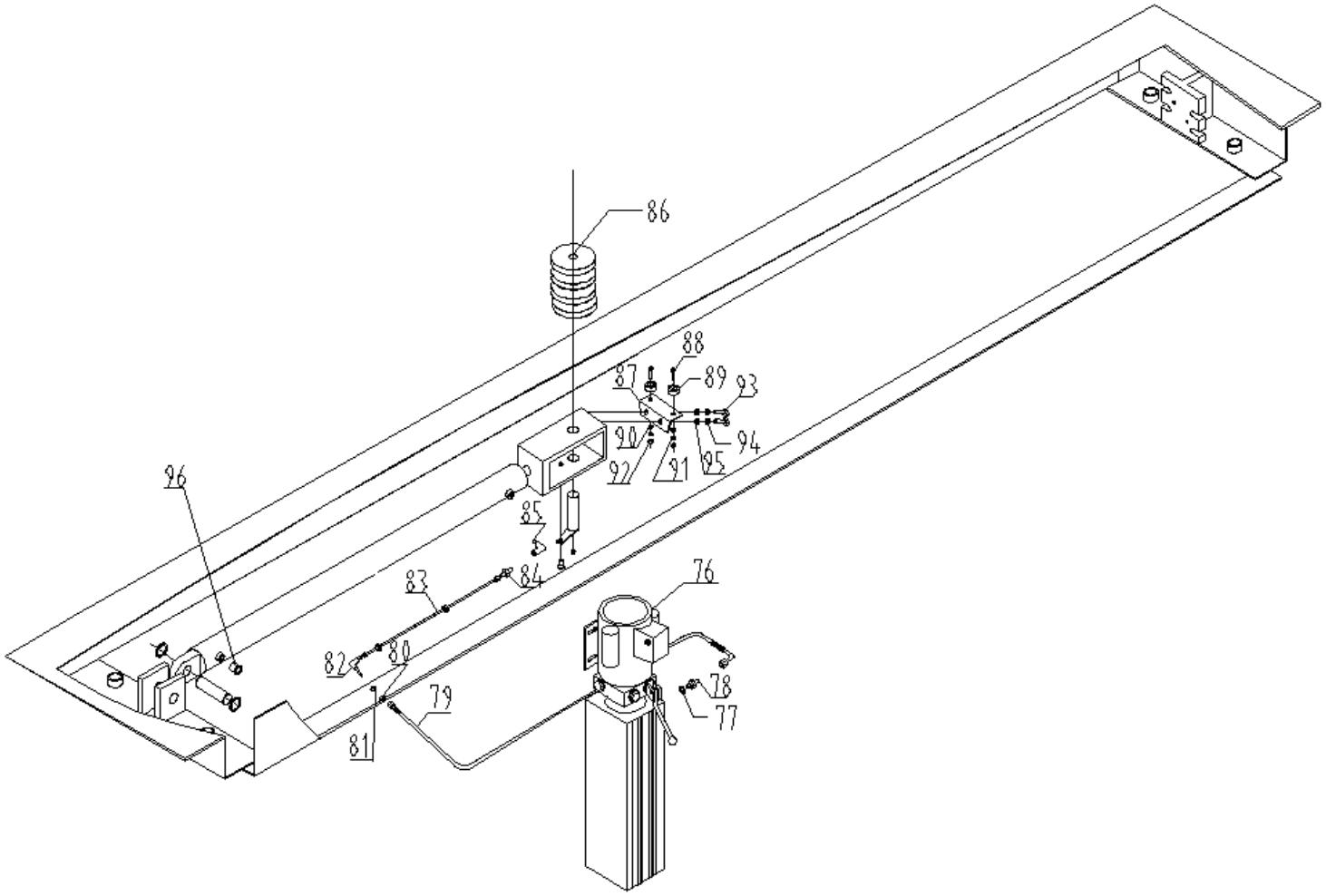


Figure 5

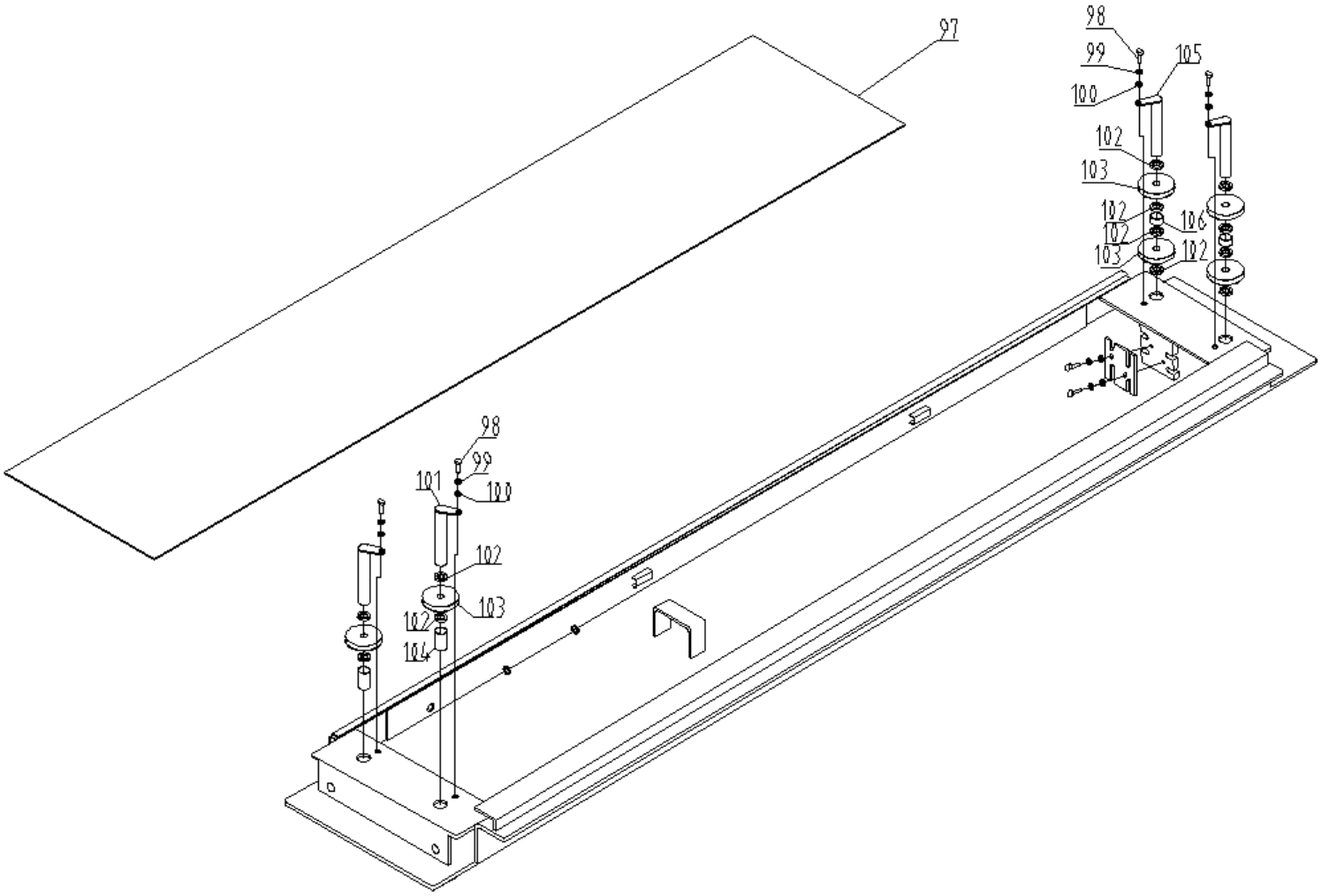


Figure 6

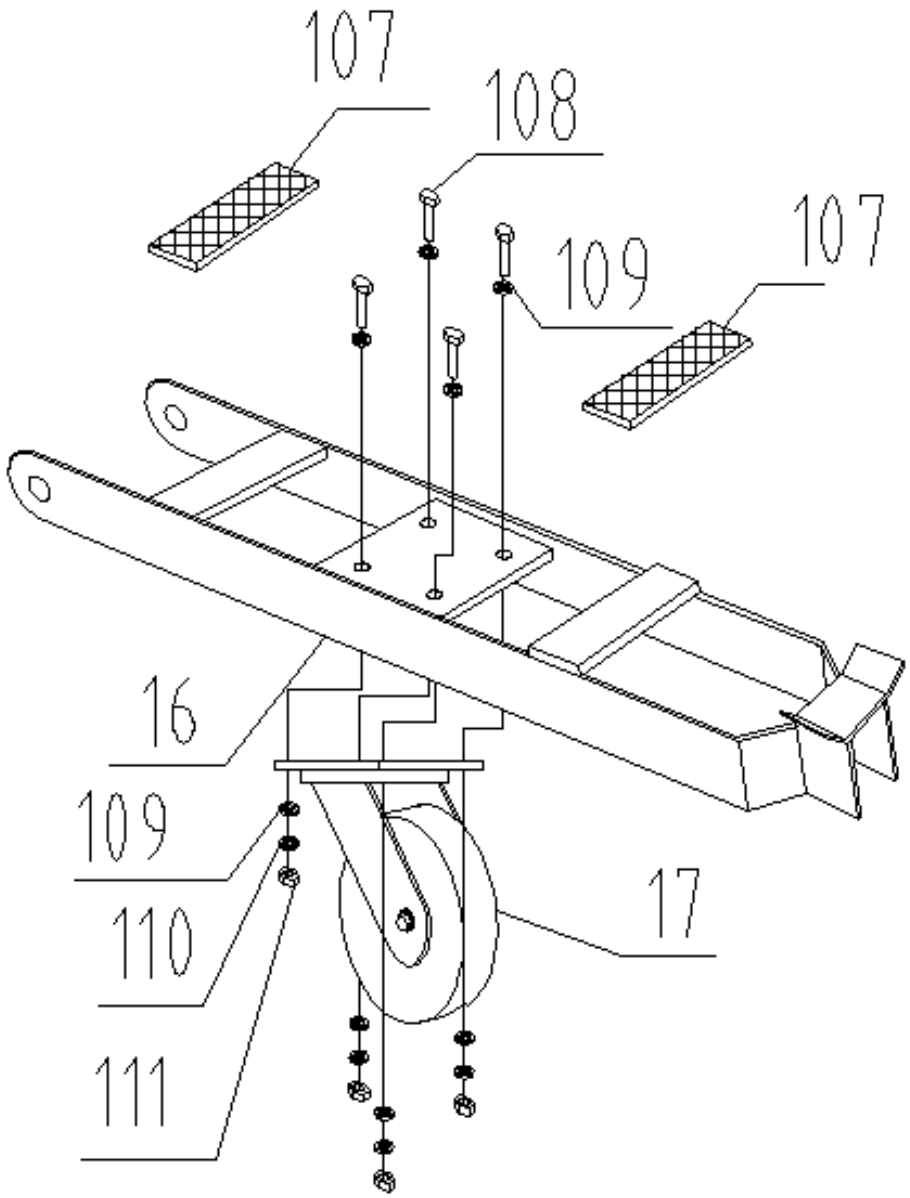


Figure 7

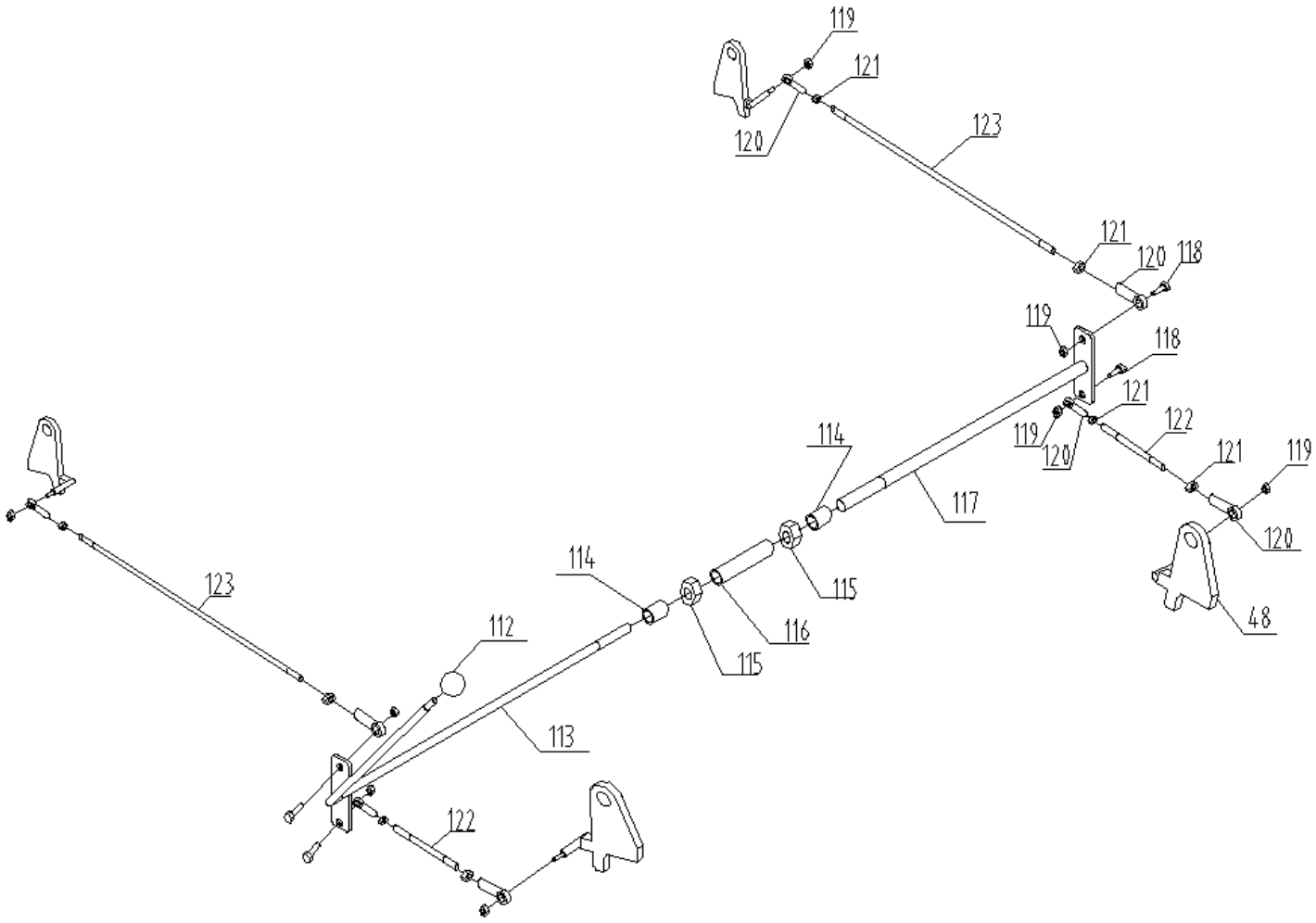

119
121
120
123
121
120
118
119
118
121
122
119
120
121
119
120
48
114
117
114
115
116
115
123
112
113
122

Figure 8

Lift part list

No.	Name	Qty	Remark
1	Main runway	1	
2	Subsidiary runway	1	
3	Beam	2	
4	Main column	1	
5	Subsidiary column	3	
6	Column top cover assembly	Each 2	Bilateral symmetry
7	Nut M18	16	
8	Flat gasket 18	24	
9	Insurance piece	4	
10	Hexagonal head bolt M12*30	16	
11	Flat gasket 12	32	
12	Spring washer	16	
13	Nut M12	16	
14	Axle of wheelset pin	4	
15	R pin	4	
16	Wheelset	4	
17	Universal wheel	4	
18	Hexagonal head bolt M18*100	8	
19	Hook plate	4	
20	Stop running plate	4	
21	Cross head screw M5*16	6	
22	slider	2	
23	Gasket5	6	
24	Nut 5	6	
25	Up ramp	2	
26	Oil pan	4	
27	Tool pan	1	
28	Spring washer 18	4	
29	Hexagonal head bolt M8*20	4	
30	Flat gasket 8	8	
31	Spring washer 8	4	
32	Nut 8	4	
33	Protect cover	Each 2	Bilateral symmetry
34	Hexagonal head bolt M8*35	36	
35	Spring washer 8	36	
36	Flat gasket 8	36	
37	Nylon slider	8	
38	Hexagonal head bolt M8*16	4	
39	Beam axle	4	

40	Beam pulley	4	
41	Flat gasket 4	12	
42	Pulley stop collar	4	
43	Set screw M8*15	4	
44	Nipple	8	
45	safety bar	4	
46	Flat gasket 20	12	
47	Self-lock nut M8	4	
48	Manual safety hook	Each 2	Bilateral symmetry
49	Torsional spring spacer	4	
50	Torsional spring	4	
51	Stop falling safety hook	4	
52	Insurance limit wheel	4	
53	Insurance limit wheel pin	4	
54	Cross head screw M6*15	4	
55	Spring washer 6	4	
56	Flat gasket 6	4	
57	Safety bar limit nut	2	
58	Nut M8	2	
59	Nut M20	8	
60	Flat gasket 20	8	
61	Wire rope 1 L=11690mm	1	
62	Wire rope 2 L=10250mm	1	
63	Wire rope 3 L=6185mm	1	
64	Wire rope 4 L=7610mm	1	
65	Axle bumper 35	2	
66	cylinder tailshaft	1	
67	Oil cylinder	1	
68	Sunk screw M8*20	1	
69	nipple	1	
70	multiplying wheel axle	1	
71	Hexagonal head bolt M8*16	2	
72	Spring washer 8	2	
73	Flat gasket 8	2	
74	Lock plate	1	
75	Pulley	6	
76	Power unit	1	
77	copper backing	1	
78	Double threaded joint	1	
79	Oil tube L=2340mm	1	
80	Nut (American systemm9/16)	1	
81	Flat gasket 14	1	
82	Small angle coupling	1	

83	Oil tube L=660mm	1	
84	explosion-proof valve	1	
85	Big angle coupling	1	
86	multiplying wheel	4	
87	Pull plate supporting	1	
88	Sunk screw M6*20	2	
89	Oil cylinder plastic gasket	2	
90	Flat gasket 6	2	
91	Spring washer 6	2	
92	Nut 6	2	
93	Hexagonal head bolt M8*16	2	
94	Spring washer 8	2	
95	Flat gasket 8	2	
96	silencer	1	
97	Plastic plate	1	
98	Hexagonal head bolt M8*16	4	
99	Spring washer 8	4	
100	Flat gasket 8	4	
101	Wire rope 1	2	
102	Flat gasket 24	12	
103	Pulley	6	
104	Stop collar 1	2	
105	Wire rope axle 2	2	
106	stop collar 2	2	
107	rubber blanket	8	
108	Hexagonal head bolt M10*30	16	
109	Flat gasket 10	32	
110	Spring washer 10	16	
111	Nut M10	16	
112	Black rubber ball	1	
113	Safety bar 1	1	
114	Limit sleeve	2	
115	Nut 12	2	
116	Safety connect sleeve	1	
117	Safety bar 2	1	
118	Hexagonal head bolt M8*30	4	
119	Self-locking nut M8	8	
120	Cardan joint	8	
121	Nut M8	8	
122	Short safety bar	2	
123	Long safety bar	2	

HYDRAULIC SYSTEM, ELECTRIC COMPONENT AND WIRING DIAGRAM

1.Power unit out-looking explosion figure

2.Hydraulic system of equipment

a.Hydraulic schematic diagram

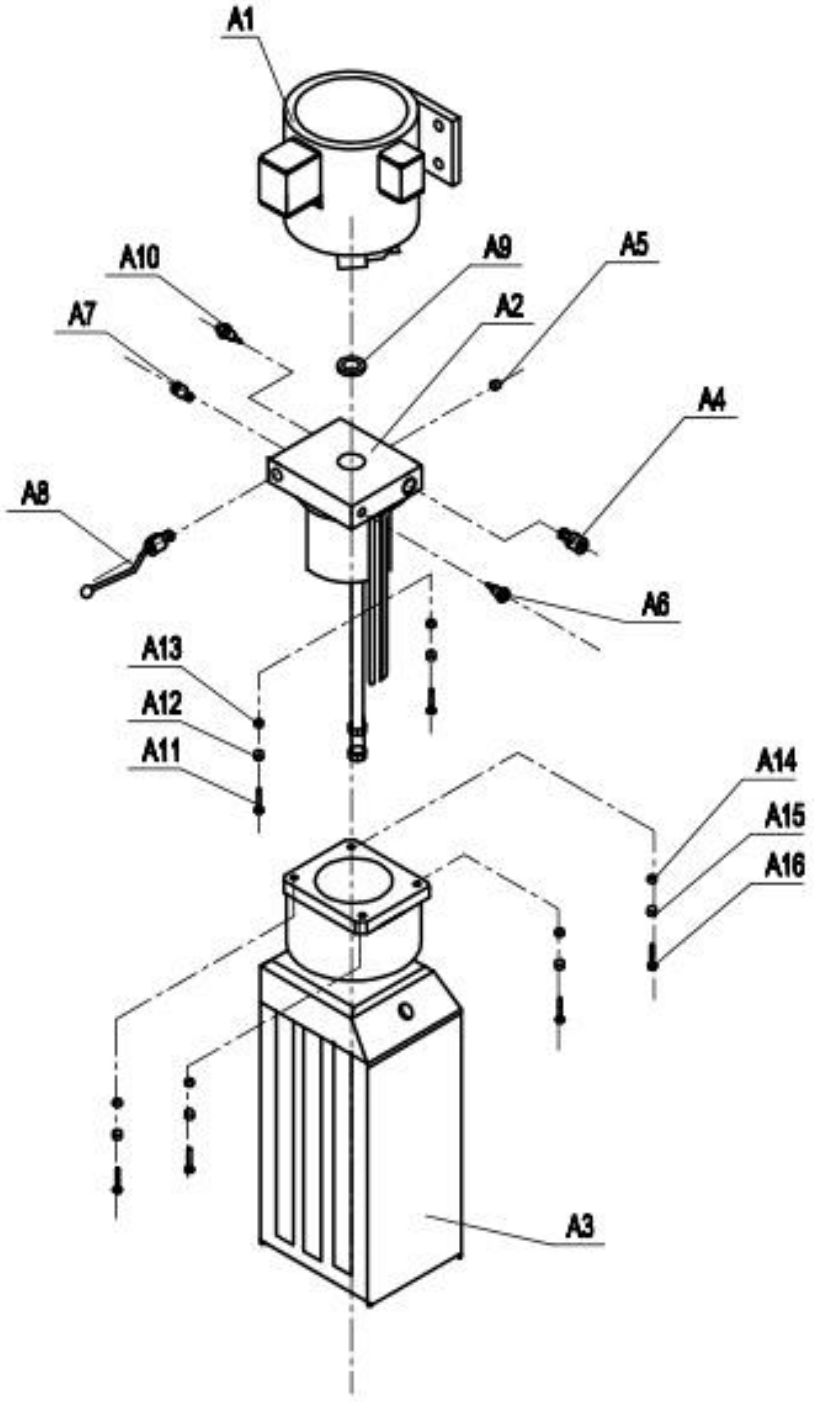
b.Hydraulic components list

c.Hydraulic system working principle

d. Electric schematic diagram

HIGH-LIFT

Power unit out-looking explosion figure

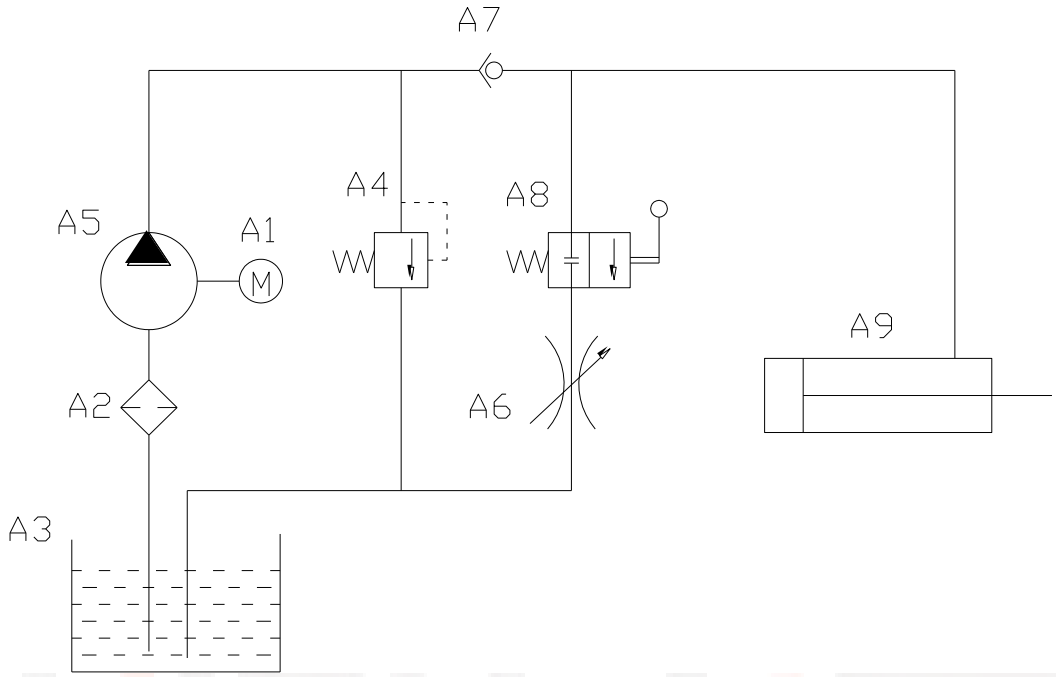


No.	Name.	Qty	
A1	Motor	1	
A2	valve element	1	
A3	Tank	1	
A4	Down-regulating valve	1	
A5	Choke plug	1	
A6	Oil-out	1	
A7	Oil-out	1	
A8	Hand valve	1	
A9	Sheet gasket	1	
A10	Choke plug	1	
A11	M5X40 hexagon screw	4	
A12	Φ5 Flat gasket	4	
A13	Φ5 Spring washer	4	
A14	M6X20 hexagon screw	4	
A15	Φ6 Flat gasket	4	
A16	Φ6 Spring washer	4	

HIGH-LIFT

2. Hydraulic system

a. Hydraulic principle



HIGH-LIFT

b. Parts list

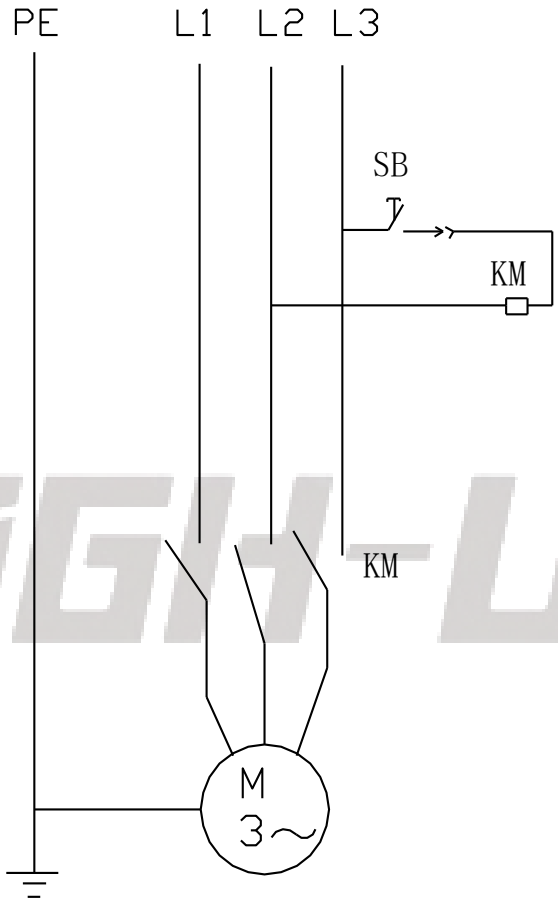
A9	Cylinder			1	
A8	Hand valve			1	
A7	One-way valve			1	
A6	Falling throttle valve			1	
A5	Oil pump			1	
A4	Flood valve			1	
A3	Tank			1	10L
A2	Filter			1	
A1	Motor		1PH 24V, 50Hz, 2.2Kw	1	Optional 3PH
No.	**Name**	**Model**	**Standard**	**Qty**	**Remark**

c. The hydraulic system works as follows:

When pressing the start button on the hydraulic station , the motor starter to drive the pump suction pressure from the tank and oil is carried into the serial A9 fuel tank, so that the piston rod to move. The A4 flood valve closed, the pressure is fine before leave factory . To ensure that the requirements of lifting rated load. However, the system pressure exceeds the limit, automatic flood valve unloading. Release the start button, stop oil supply to enhance the end, began operations work. If you decline, the first point of action to rise a little, after the mechanical safety lock is opened, pressing the manual valve A8 and began unloading decreased.

HIGH-LIFT

D. Electrical schematic diagram (240V Single-phase motor) (415V three-phase optional)
(* Installation sure to follow the schematic wiring to ensure reliable the ground at the ground, the input power leakage, over-current protection switch must be set)



HIGH-LIFT

SB	button	LXW5-11M/L	1
KM	AC contactor	CJX1-6.3/01-240V	1
No.	**Name**	**Model**	**Qty**

Trouble shooting

No.	Symptom	Eliminating methods
1	A motor does not turn	● check the power supply has power ● Check the motor connection box wiring is loose
2	motor rotation position of pressure oil	● One-phase electric rotating in the wrong direction, swap in which two into line. ● Check that the fuel tank suction tube is off
3	Hydraulic lift after the slow decline in(Pressure bad)	● cleaning one-way valve and reversing valve of the hydraulic station.
4	Security lock laughs at locksmith	● observe the position of locksmith security hook plate is normal. ● observed the location of column is correct. ● Check the return spring safety hook plate
5	motors, electrical failure	● Promptly cut off the power to inspect, repair and replacement by a professional electrician..

HIGH-LIFT

Standard part packing list

No.	Part name	Name	Qty	Remark
1	Standard part	M18×100 hexagon screw	8set	Contact beam and runway with nut, double flat gasket, spring washer
		M8×20 hexagon screw	4set	Connect power unit with nut, double flat gasket, spring washer
		M8×30 hexagon screw	4set	For beam safety bar with self-lock nut
		Tire wedge	2pcs	
		2. 34m Oil tube with protector	1pcs	
		Power unit joint	1pcs	
		copper backing	2pcs	
		Nipple	8pcs	

HIGH-LIFT

Wearing parts list

No.	Model	Name	Qty
1		Pulley	10
2		Beam safety limit wheel	4
3	L=11690mm	Wire rope	1
4	L=10250mm	Wire rope	1
5	L=6185mm	Wire rope	1
6	L=7610mm	Wire rope	1
7		Nylon slider	8

HIGH-LIFT