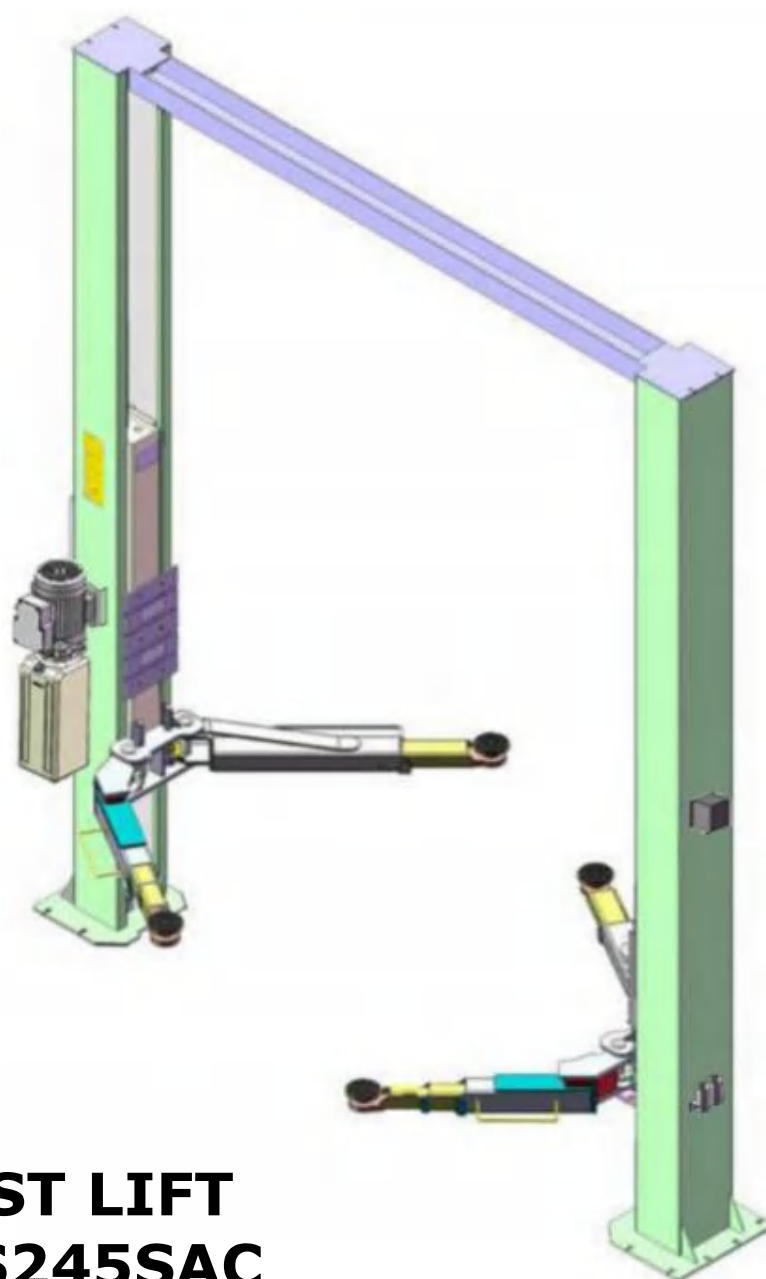




Original

Installation And Service Manual



TWO-POST LIFT
Model:ES245SAC

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I. PRODUCT FEATURES AND SPECIFICATIONS

CLEAR-FLOOR DIRECT-DRIVEN MODEL FEATURES

Model ES245SAC (See Fig. 1)

- Direct-driven design, minimize the lift wear parts and breakdown ratio
- Dual hydraulic cylinders, designed and made as USA standards, utilizing oil seal in cylinder
- Self- lubricating UHMW Polyethylene sliders and bronze bush
- Single-point safety release, and dual safety design
- Clear-floor design, provide unobstructed floor use
- Overhead safety shut-off device prevents vehicle damage
- With supper-asymmetric® arms, drop-in & screw rubber pad
- Standard adjustable heights accommodate varying ceiling heights

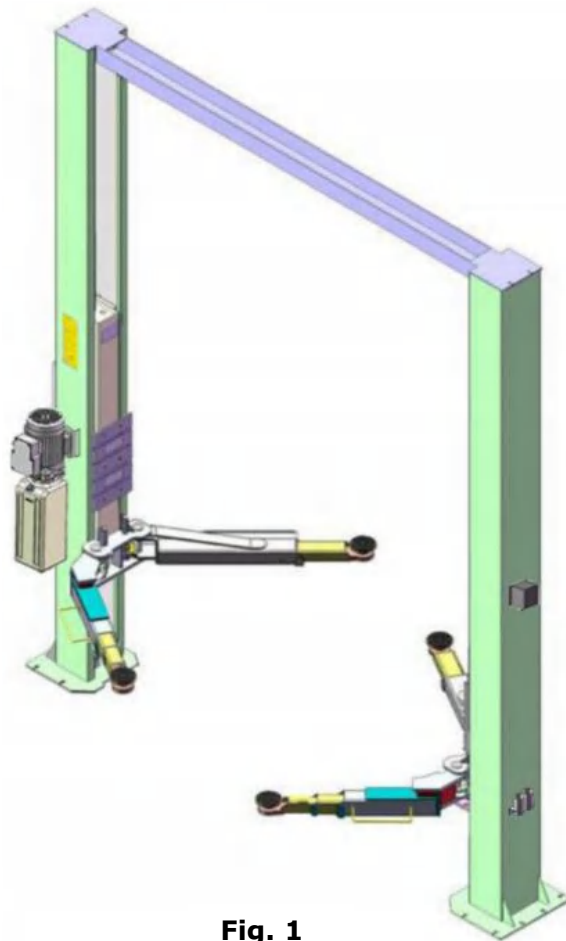


Fig. 1

SPECIFICATIONS

Model	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Width between Columns	Minimum Pad Height	Motor
ES245SAC	4500kg	60S	1900~2035mm	3854mm	3516mm	2850mm	100mm	3.0 HP

**Arm Swings View
For Model ES245SAC**

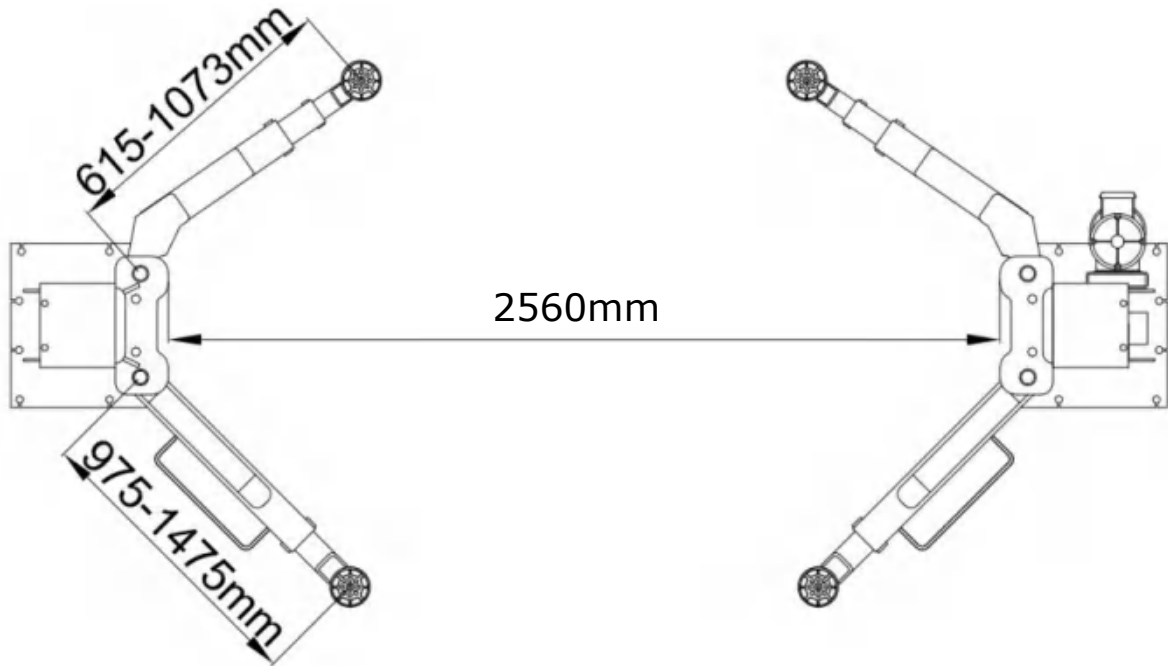


Fig. 2

Attention! Please make sure to place the arms in correct position before car drive in !

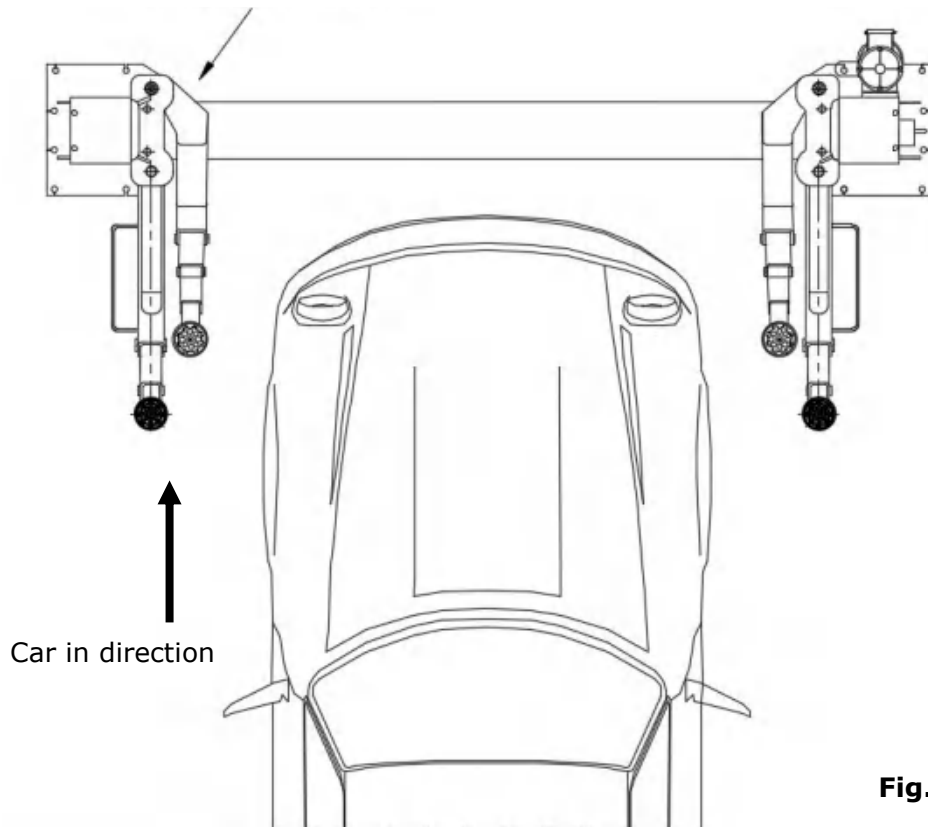


Fig. 3

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

- ✓ Rotary Hammer Drill ($\Phi 19$)



- ✓ Hammer



- ✓ Level Bar



- ✓ English Spanner (12")



- ✓ Ratchet Spanner With Socket (28#)



↺

Wrench set
(10#, 13#, 14#, 17#, 19#, 24#, 27#)



- ✓ Carpenter's Chalk



- ✓ Screw Sets



- ✓ Tape Measure (7.5m)



- ✓ Pliers



- ✓ Socket Head Wrench (3#, 6#)



↺

Lock Wrench



Fig. 4

B. Equipment storage and installation requirements.

The equipment should be stored or installed in a shady, normal temperature, ventilated and dry place.

C. The equipment should be unload and transfer by forklift.



Fig. 5

D. SPECIFICATIONS OF CONCRETE (See Fig. 6)

**Specifications of concrete must be adhered to the specification as following.
Failure to do so may result in lift and/or vehicle falling.**

1. Concrete must be thickness 100mm minimum and without reinforcing steel bars, and must be dried completely before the installation.
2. Concrete must be in good condition and must be of test strength 3,000psi (210kg/cm²) minimum.
3. Floors must be level and no cracks.

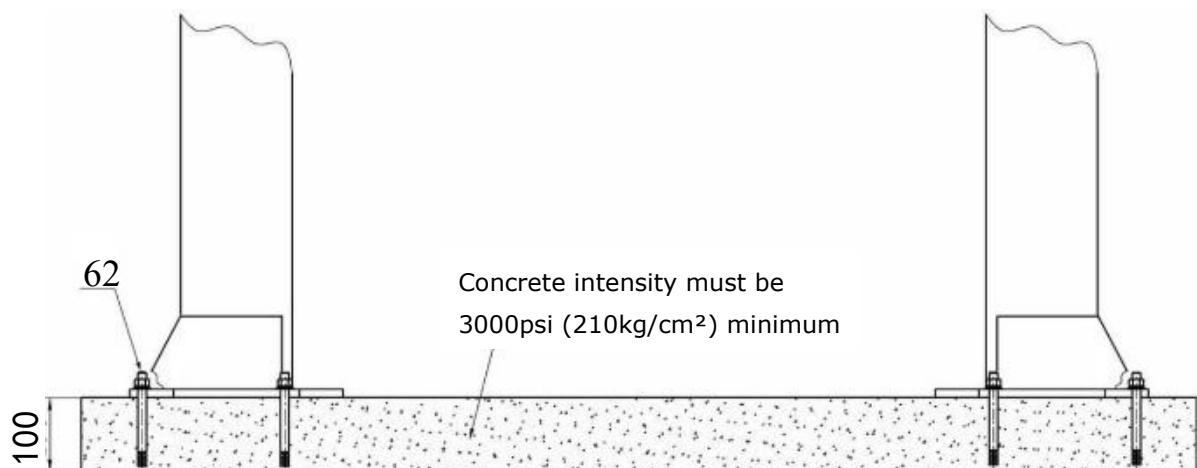


Fig. 6

E. POWER SUPPLY

The electrical source must be 3HP(2.2kw) minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. STEPS OF INSTALLATION

A. Location of Installation

Check and insure the installation location (concrete, layout, space size etc.) is suitable for lift installation.

B. Use a carpenter's chalk line to establish installation layout of base-plate (**See Fig.7**).

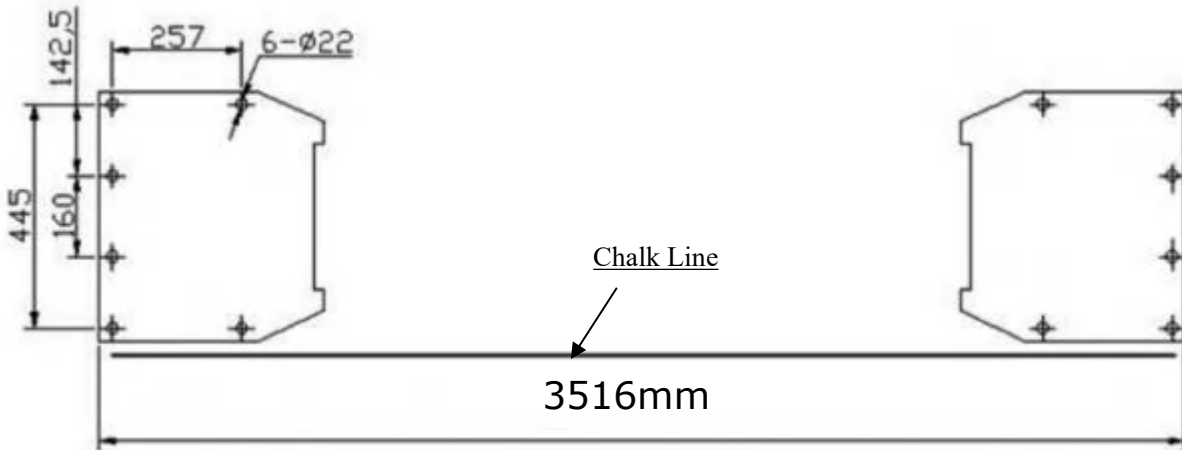


Fig. 7

C. Check the parts before assembly.

1. Packaged lift and hydraulic power unit (**See Fig. 8**).

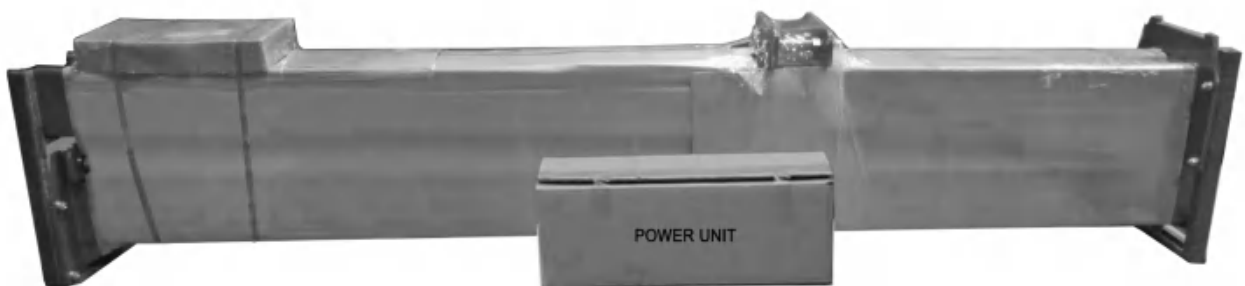


Fig. 8

2. Move the lift aside with fork lift or hoist, and open the outer packing carefully, take off the parts from upper and inside the column, take out the part box, check the parts according to the shipment parts list. (**See Fig.9**).

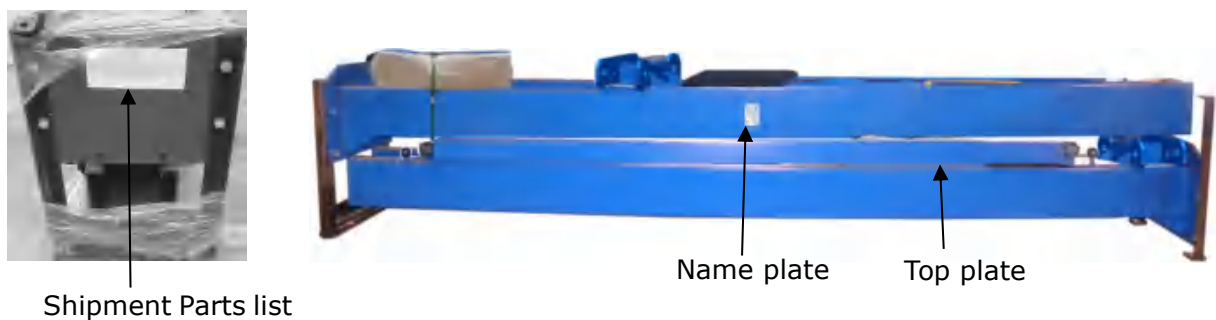
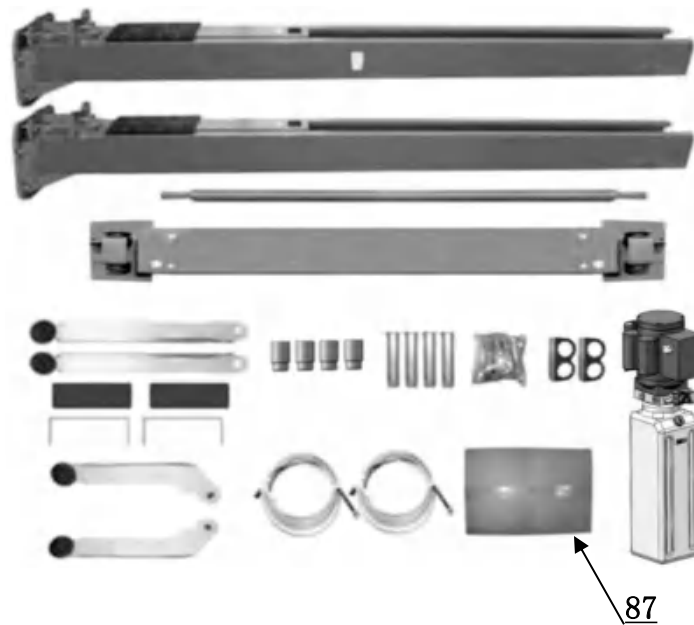


Fig.9

3. Loosen the bolts of the upper package stand, take off the upper column by forklift and remove the package stand.
4. Move aside the parts and check the parts according to the shipment parts list.

4.1 Parts list (See **Fig.10**).



Parts in the shipment parts list
Fig.10

4.2 Part box list (See **Fig.10**)



Parts box(87)

Fig.11

(See Fig. 12).



D. Install columns

Lay down two columns on the installation site parallelly, position the power-side column according to the actual installation site. Usually, it is suggested to install power-side column on the right of vehicles driven-in.



E. Lay down aside the columns with cables and oil hoses installed, face the open way of each columns. (See as Fig.14)

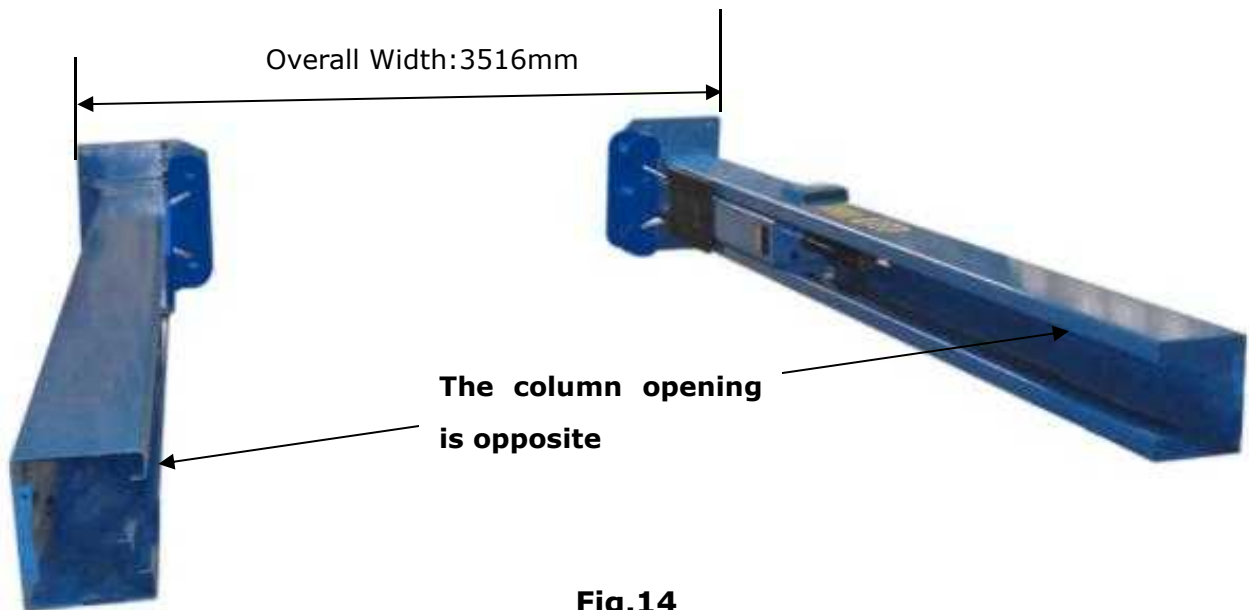
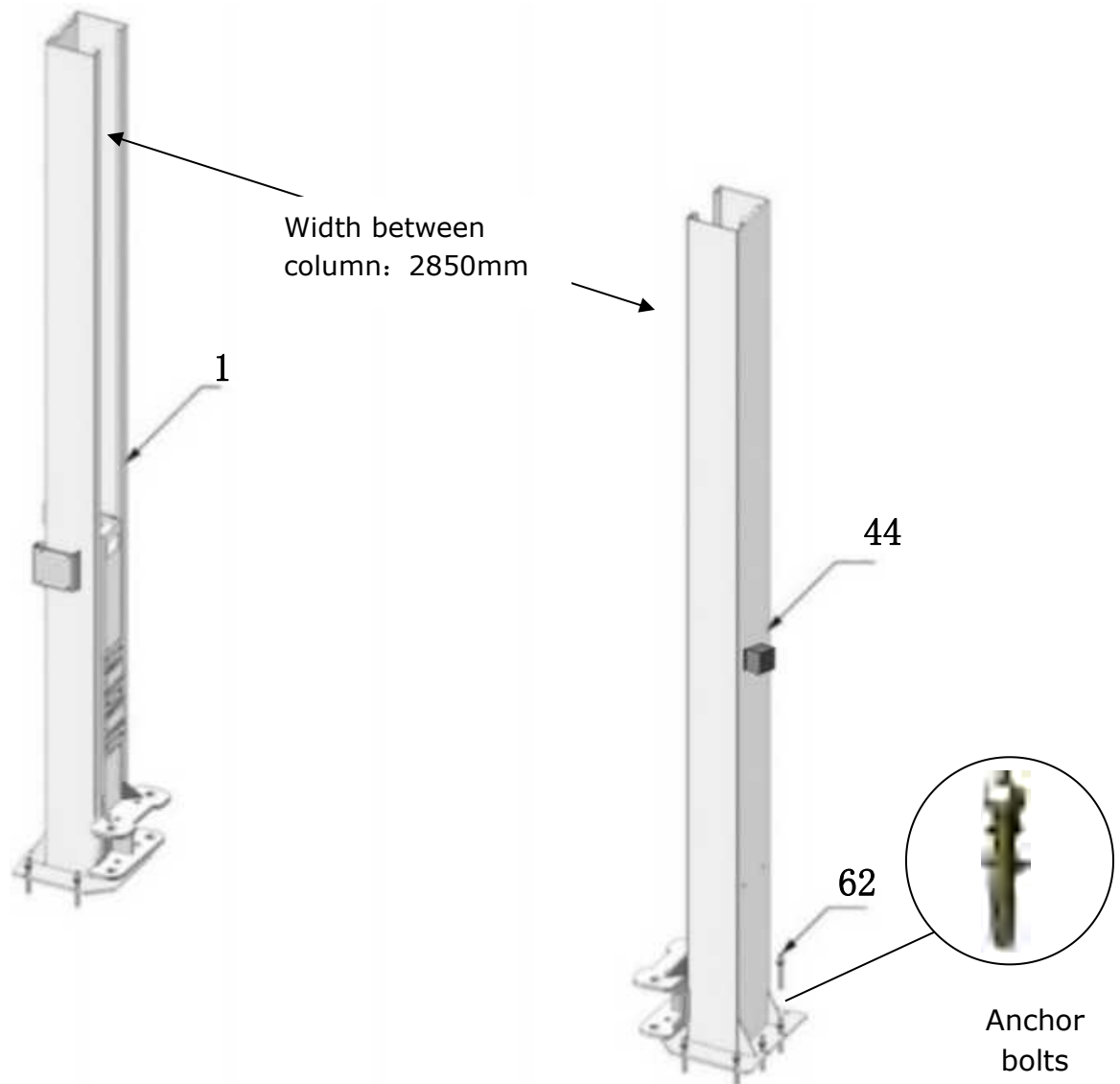


Fig.14

F. Position columns

Position the columns on the installation layout of baseplate. Install the anchor bolts.
Do not tighten the anchor bolts (**See Fig.15**).



Note: Minimum embedment of anchors is 90mm.



Fig.15

G. Mounting the top beam by lifting equipment.(see Fig.16)



Fig.16

H. Check the vertical of the columns with level bar, and adjusting with the shims if the columns are not vertical. Tighten the anchor bolts (See Fig.17).

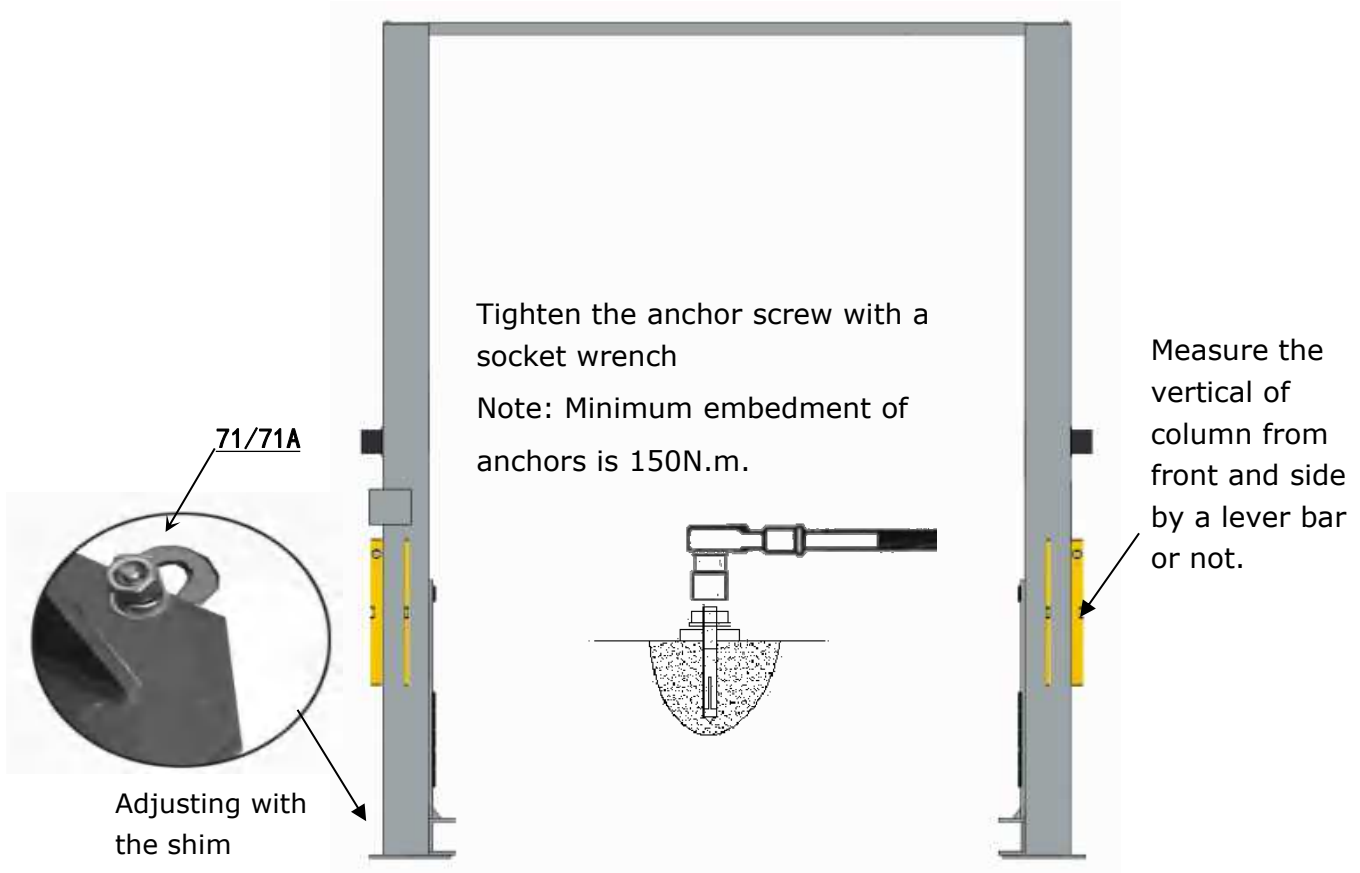


Fig.17

I. Install electromagnet, wire assy. and safety blocks testing.

1. Remove the both side columns electromagnet protective cover (**See Fig. 18**).

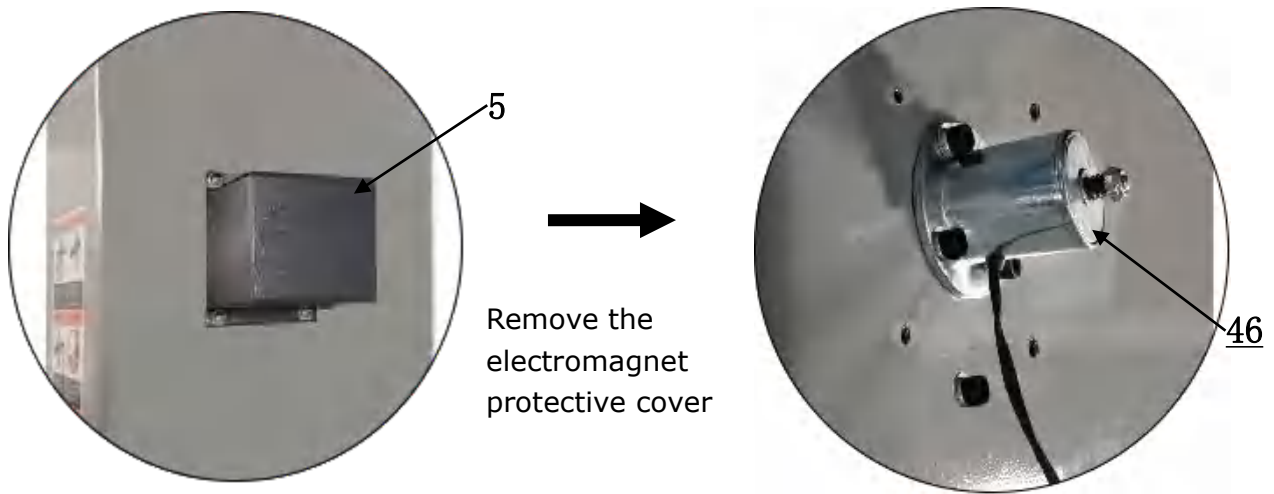
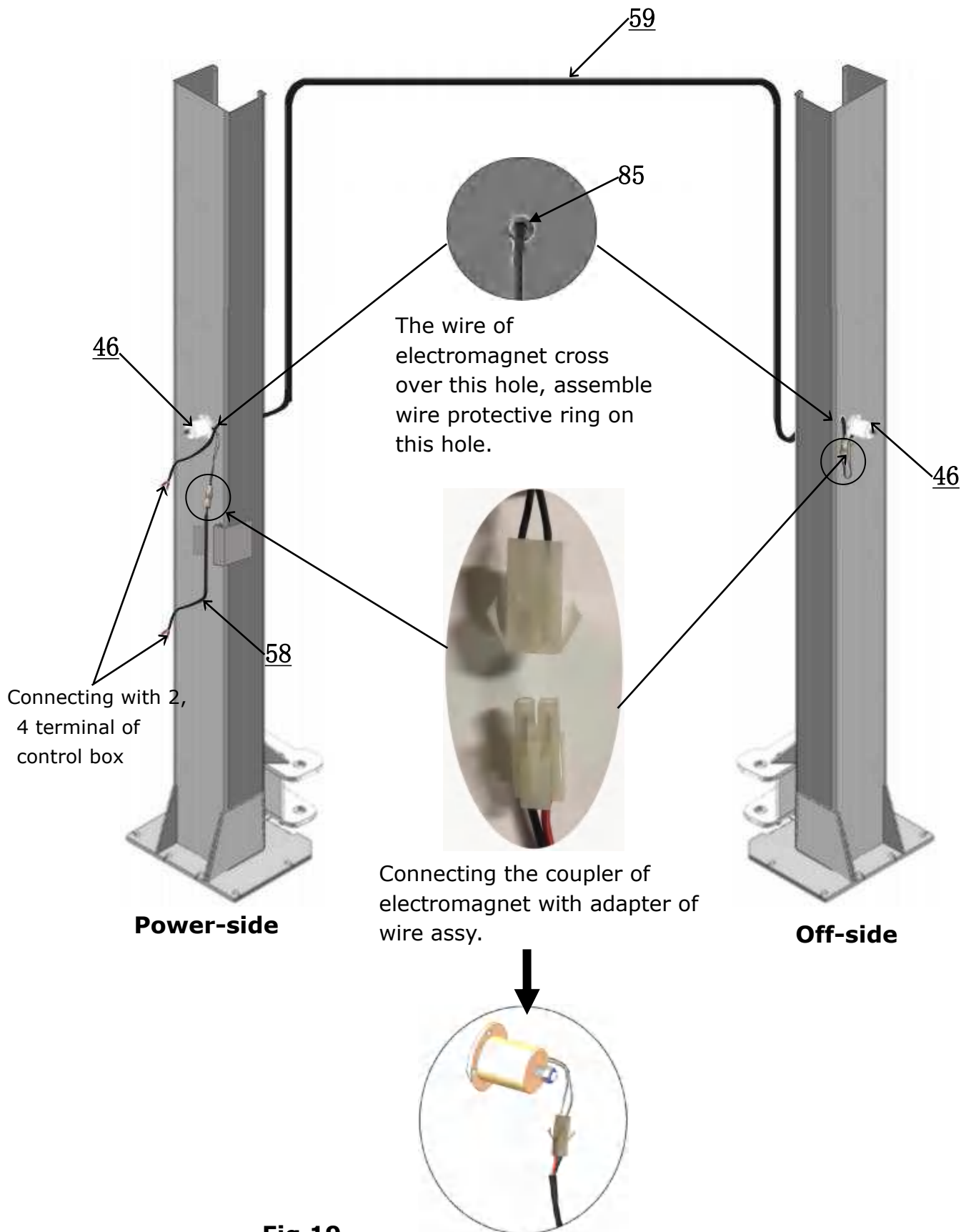


Fig.18

2. Install electromagnet, wire assy. **(see Fig.19)**



3, Safety lock testing (**See Fig.18**)

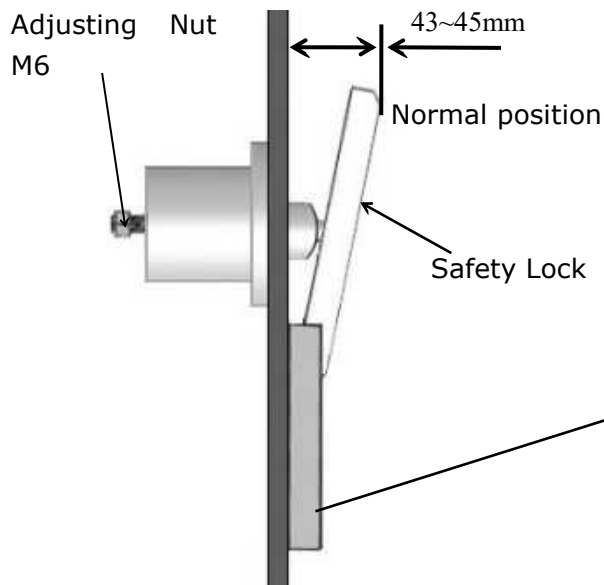


Fig.20



Fig.21

Measure the distance between the inside of the column and the outermost side of the safety lock (**See Fig.20**), ensure that the distance is between 43-45mm. If it is out of the range, adjust the fixing nut (**Fig.21**). Clockwise to decrease the distance, counterclockwise to increase the distance.

4. Install the electromagnet protective cover after finishing adjustment. (See Fig.22)



Fig.22

J, Raise the carriage to the same level of safety lock. See Fig.23

Note: Make sure that safety block is completely stuck with the carriage.

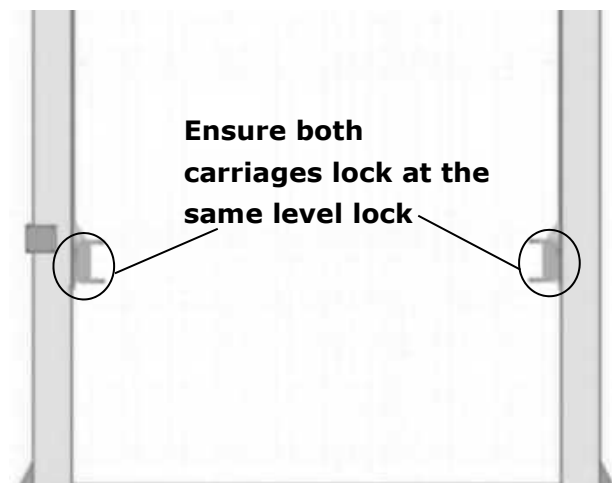


Fig.23

K, Install cables (see Fig.24)

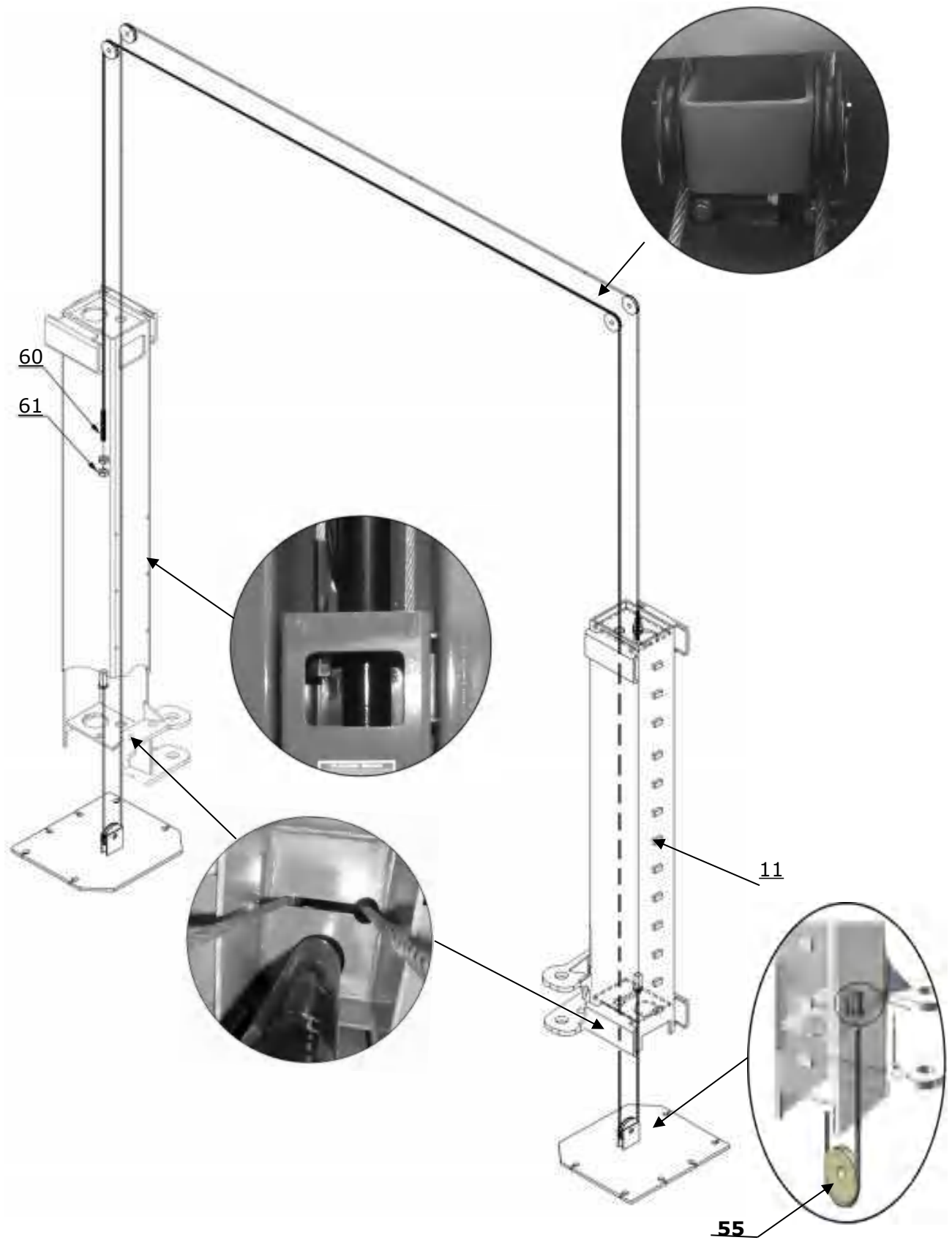


Fig.24

L. Assembly oil hose. tighten all the oil hose fitting.

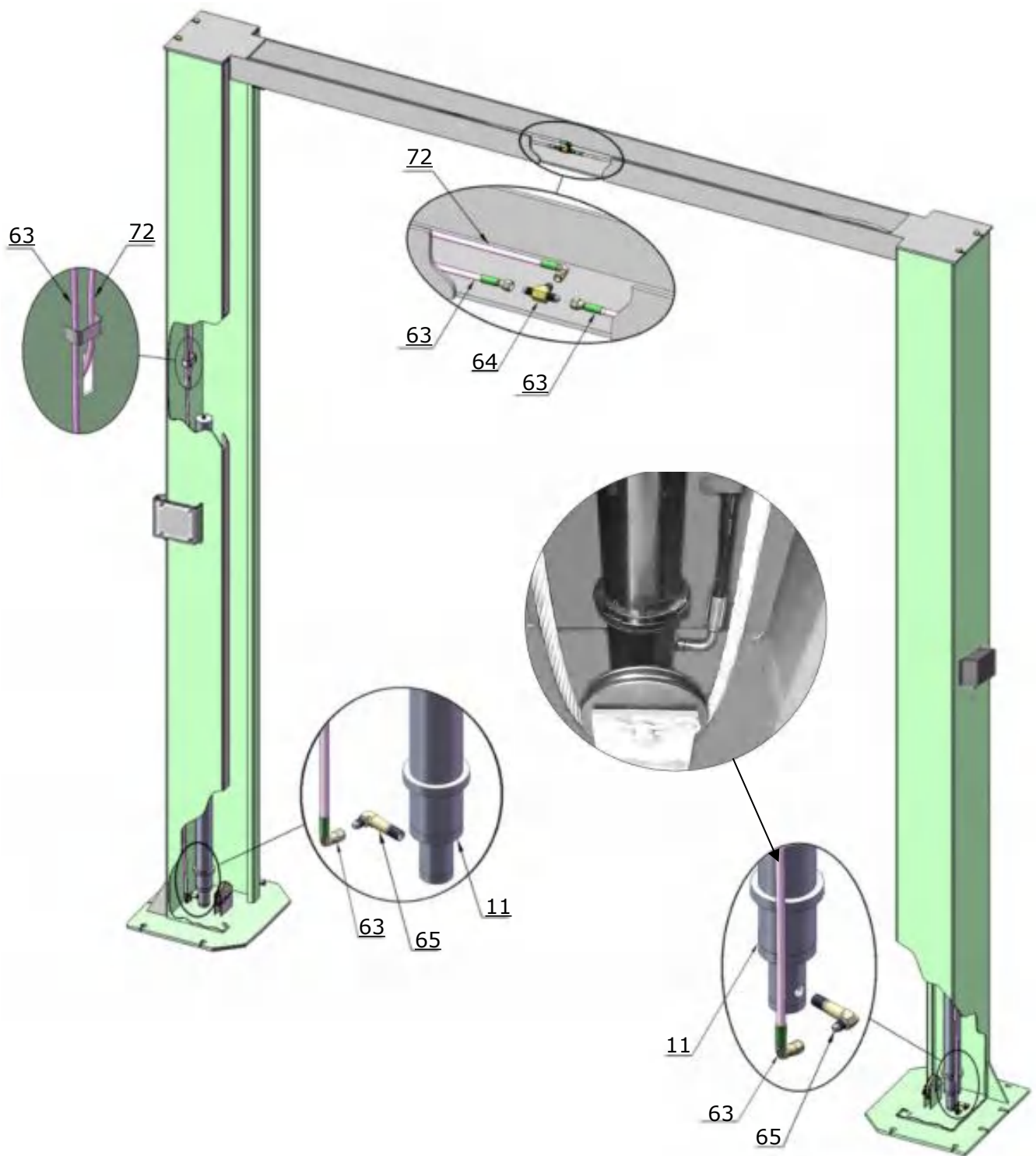


Fig.25

M, Install power unit and oil hose. (See Fig.26)

Pay attention to lock the hose joint and power to prevent oil leakage

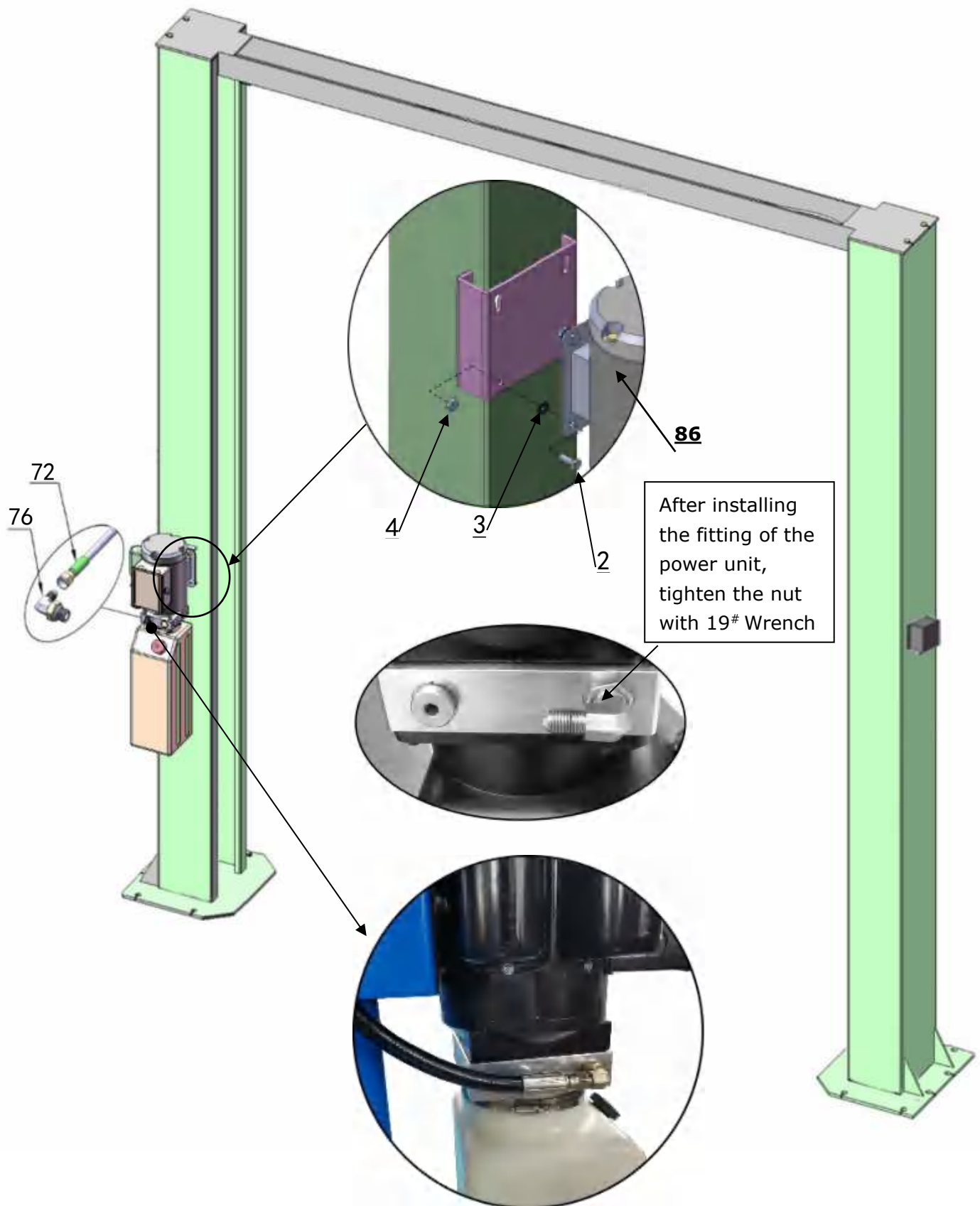
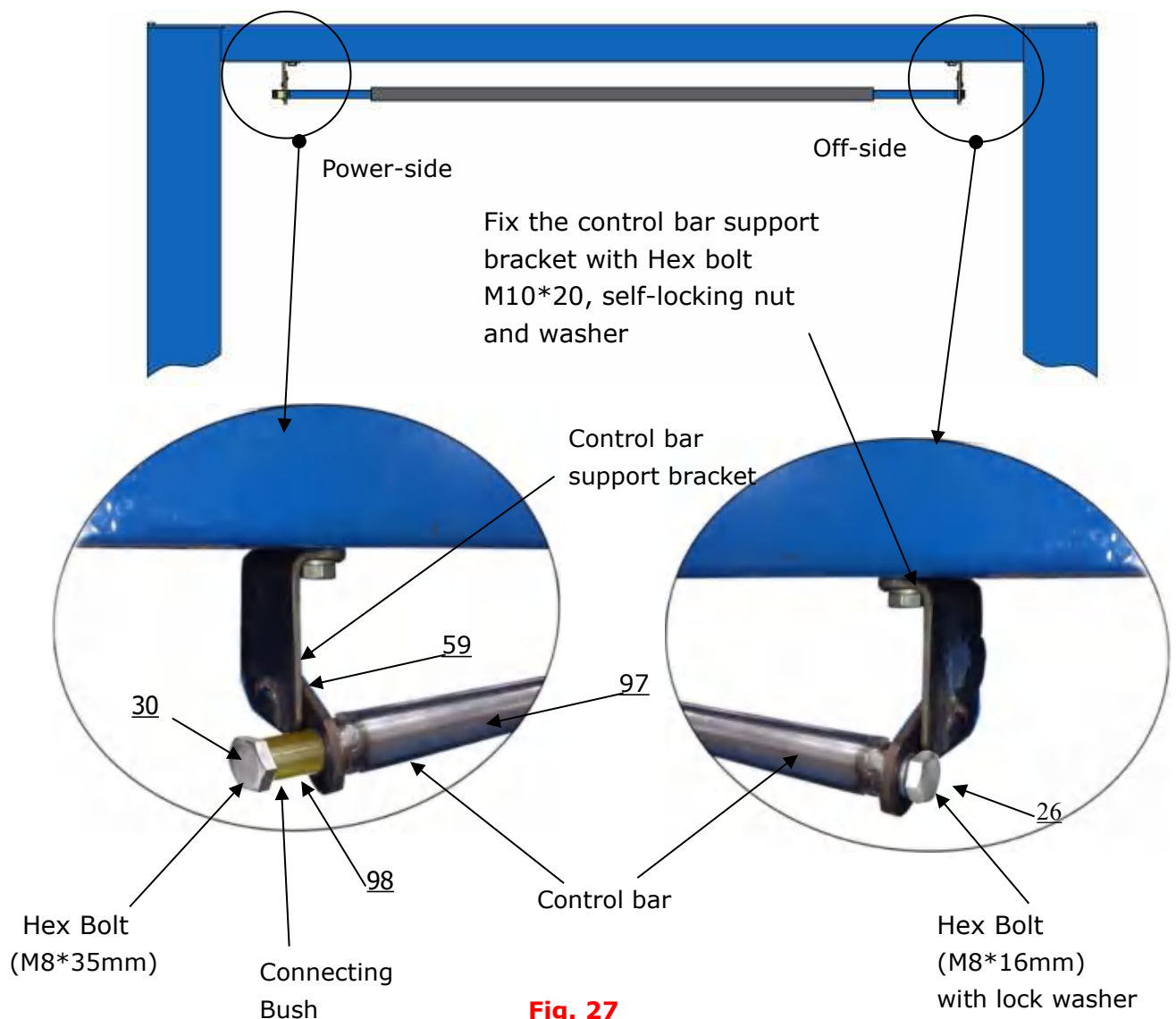


Fig.26

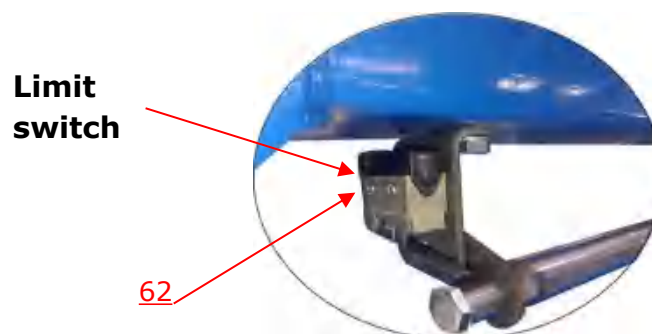
N. Install control bar for limit switch (See Fig. 27)

1. Install control bar



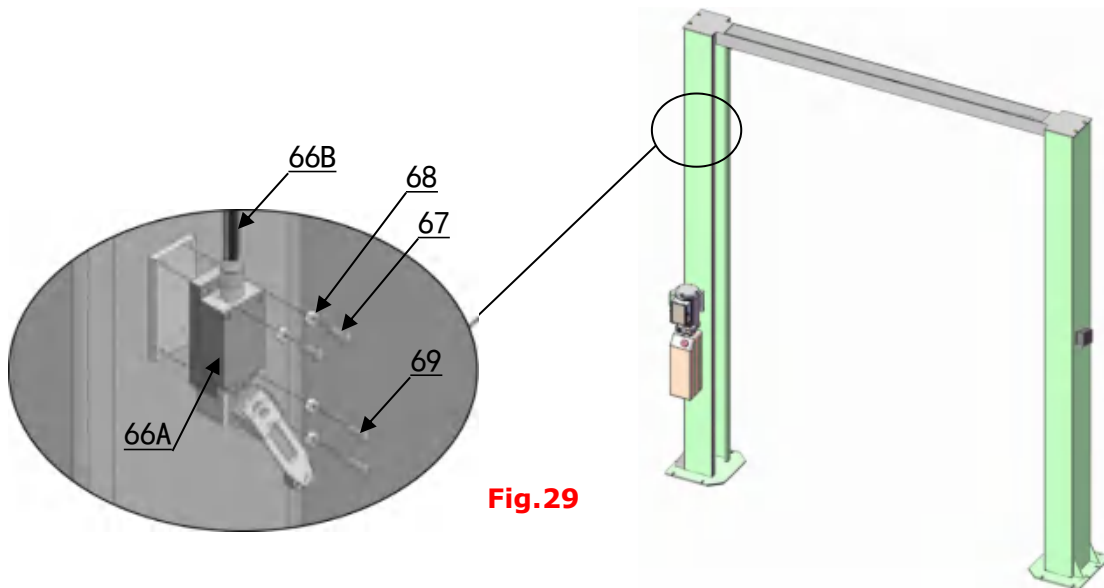
2. Tighten control bar limit switch .

Fix the limit switch on control bar support bracket of the power-side as the photo. The wire pass through the top beam and connected to the AC contactor of power unit.

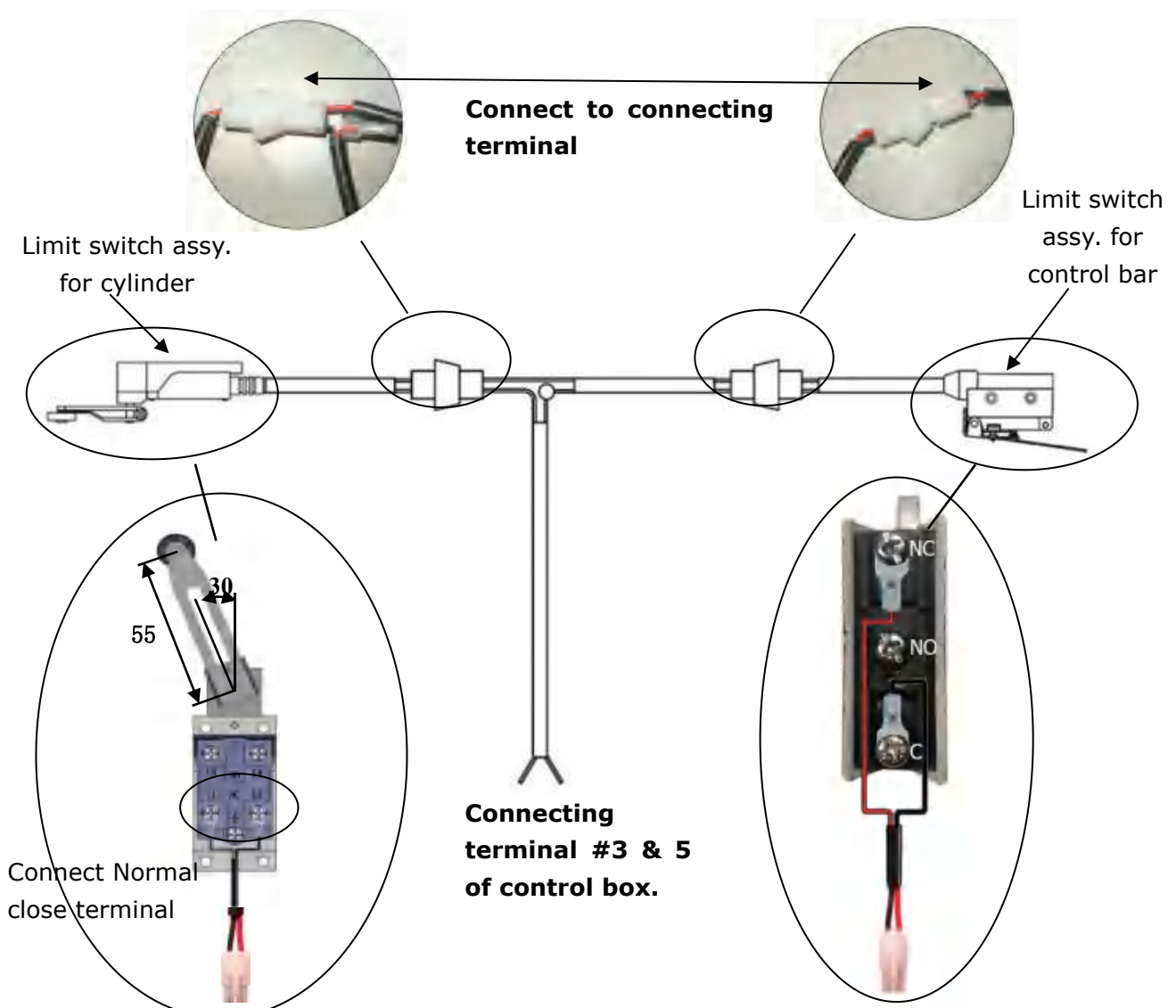


3. Install the limit switch

Install the limit switch on the plate inside of the column.



4. Connecting wire of limited switch. Connect the wire of limited switch to control box.



O. Install control box and support frame of stackable adapter. (See Fig.31)

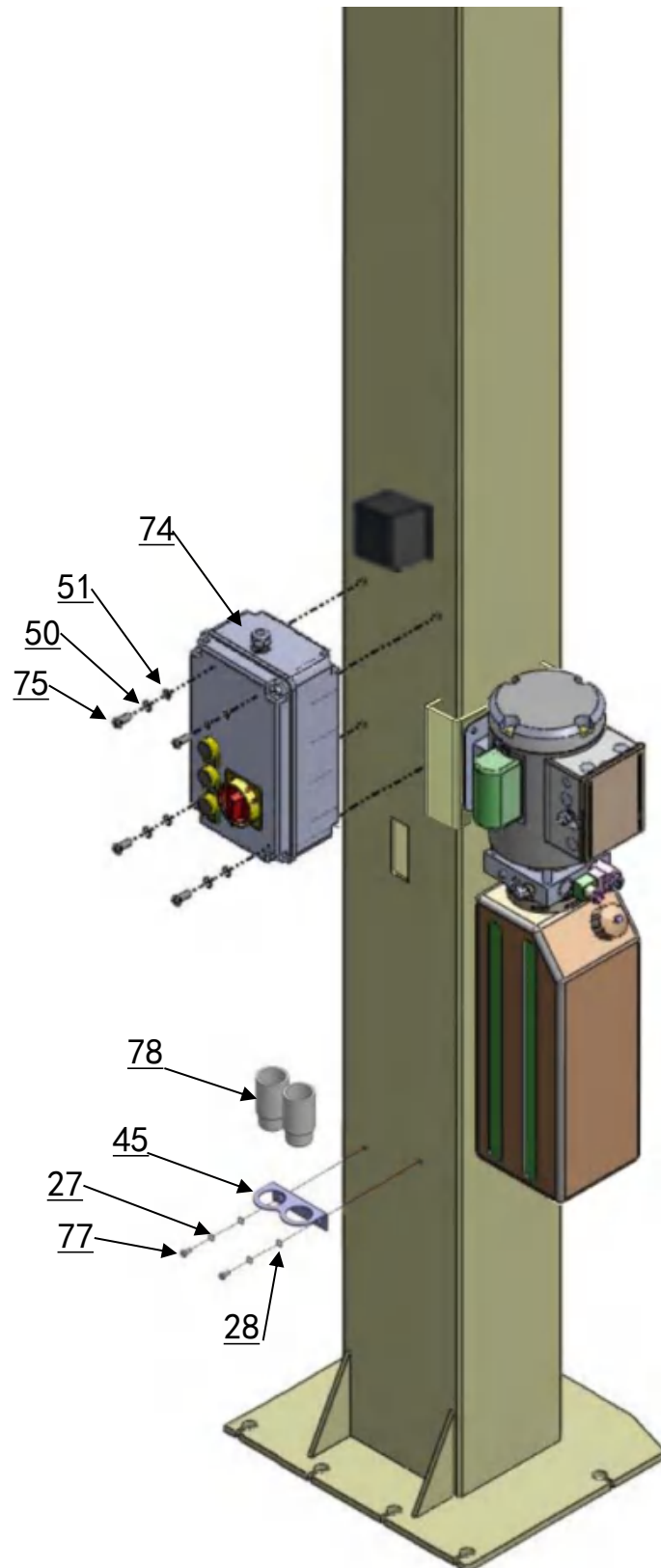


Fig.31

P. Install electrical system

1. Connecting wire with control box (See Fig. 32).

Note: 1) Specification of wire of limit switch and hydraulic solenoid valve is 2×1^2

Wire cable for power source and motor are 4×2.5^2

- 2) Using white bobbin to wind around wire

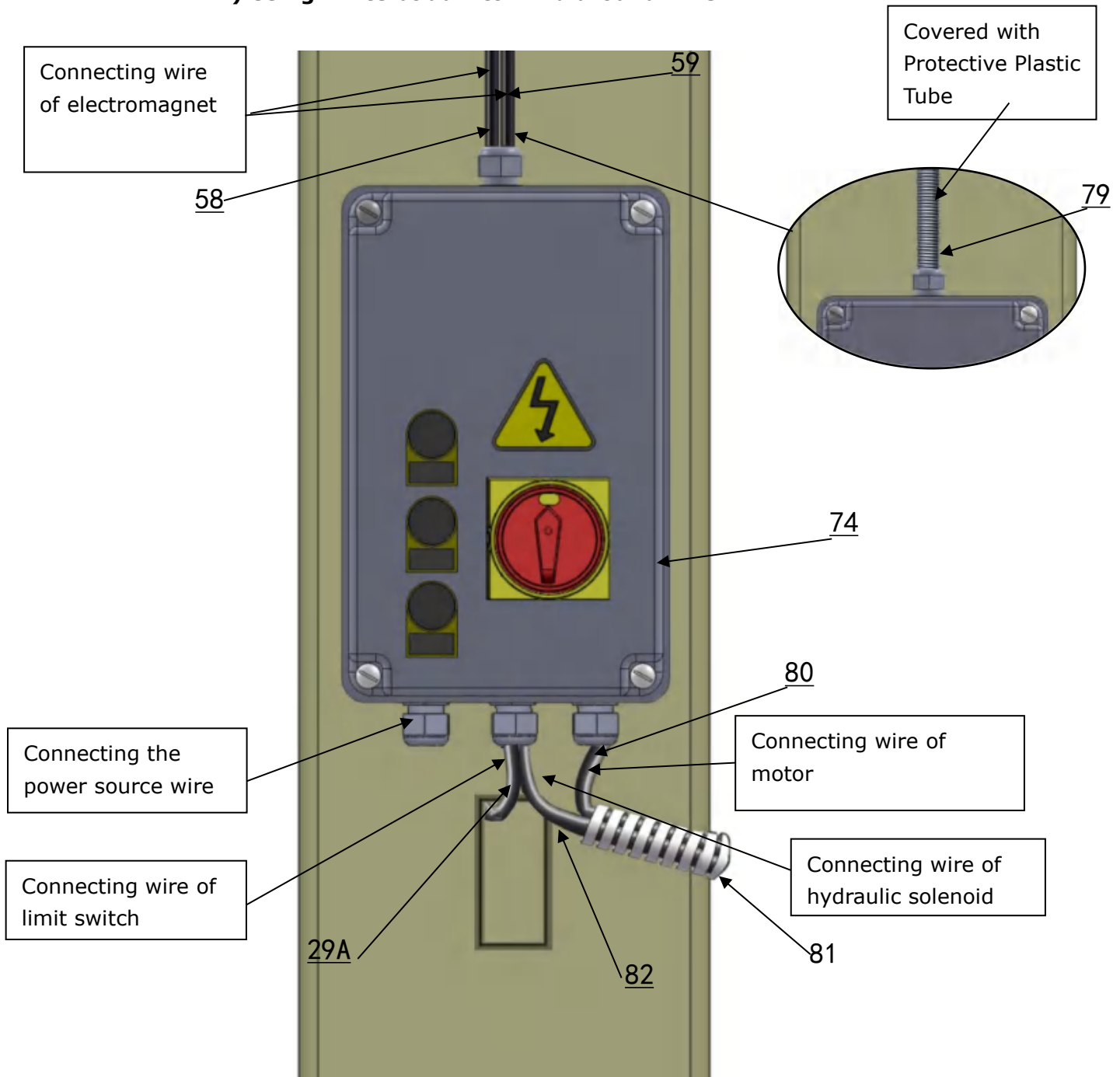


Fig.32

2. Three phase Wire connection and circuit diagram

2.1 Wire connection diagram in the control box (See Fig. 33)

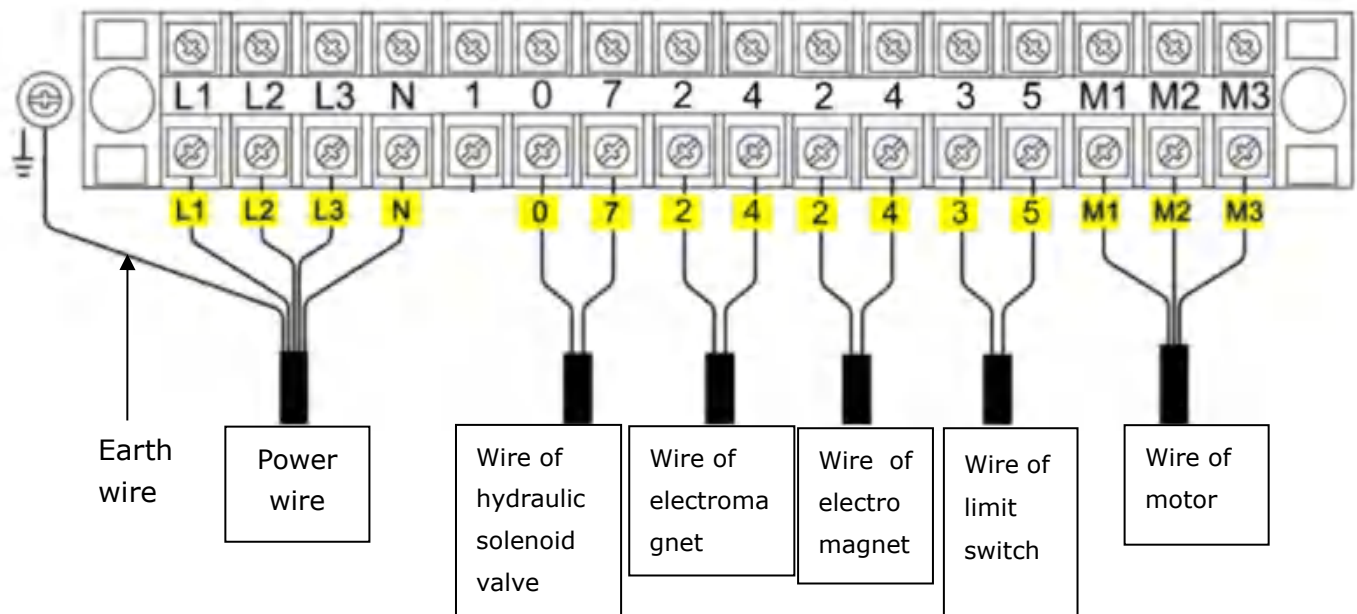


Fig. 33

2.2 Three phase Wire connection diagram of hydraulic motor (See Fig. 34)

Motor wires (M1,M2,M3) are connected to the three wires in the motor.

Turn on the power, push button **"UP"**, if motor run but lift is not worked, please exchange the wires M1, M2 connection.

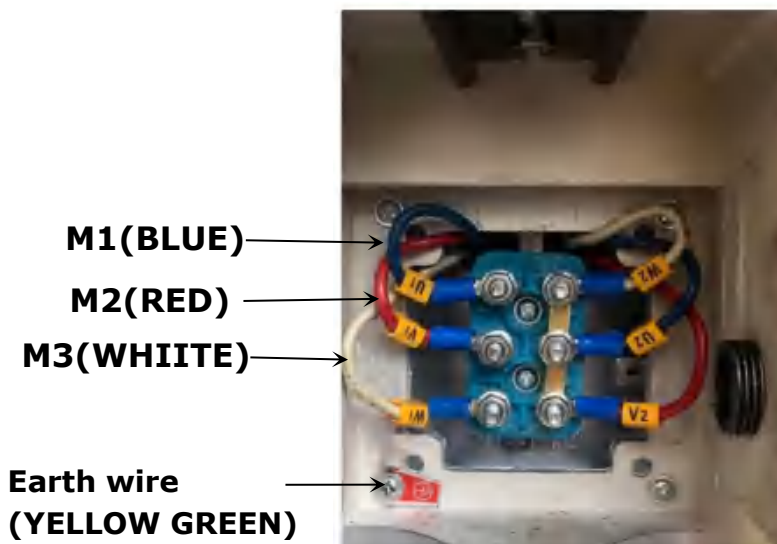


Fig. 34

2.3 380V Circuit diagram (See Fig. 35)

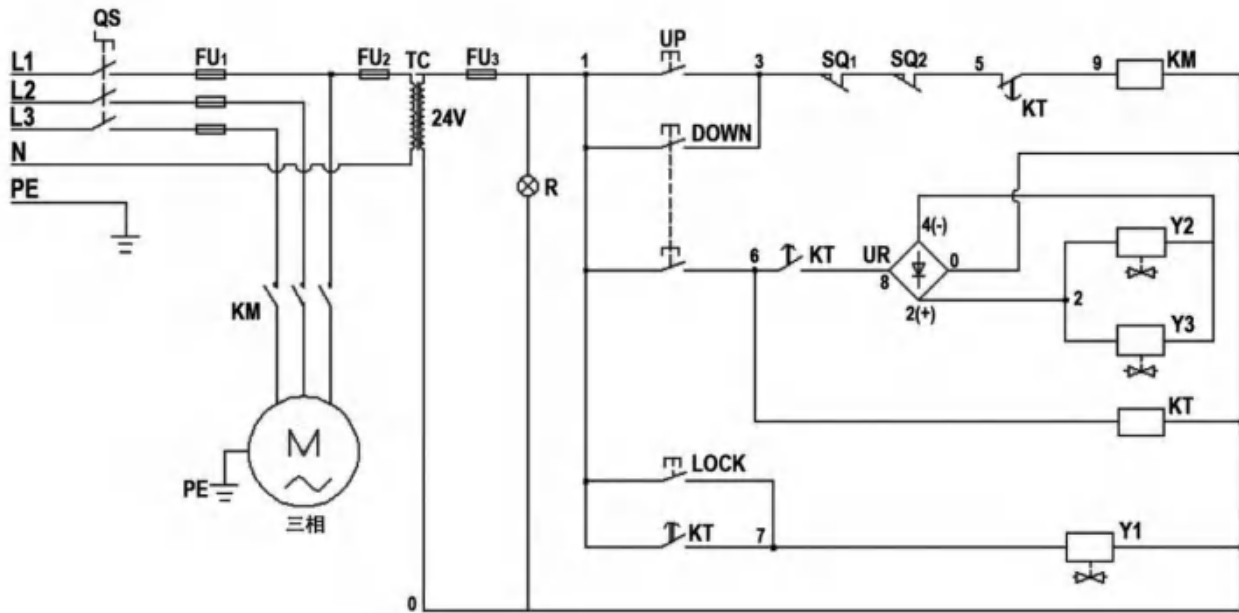


Fig.35

Circuit diagram component list for 380V Power

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power Switch	QS	25A	10	Electromagnet	Y ₂ Y ₃	24V DC
2	Breaker	FU ₁	3P	11	Push Button	UP	Single
3	Breaker	FU ₂	1P	12	Push Button	Down	Duplex
4	Breaker	FU ₃	1P	13	Push Button	Lock	Single
5	AC Contactor	KM	24V AC	14	Transformer	TC	24V AC
6	Time Relay	KT	24V AC	15	Indicator	R	White(24V)
7	Cylinder Limit switch	SQ ₁	10A	16	Motor	M	Three phases
8	Control bar limit switch	SQ ₂	10A	17	Rectifier bridge	UR	KBPC10-10
9	Hydraulic Solenoid Valve	Y ₁	24V AC				

3. Single phase Wire connection and circuit diagram

3.1 Wire Connection diagram in the control box (**See Fig. 36**)

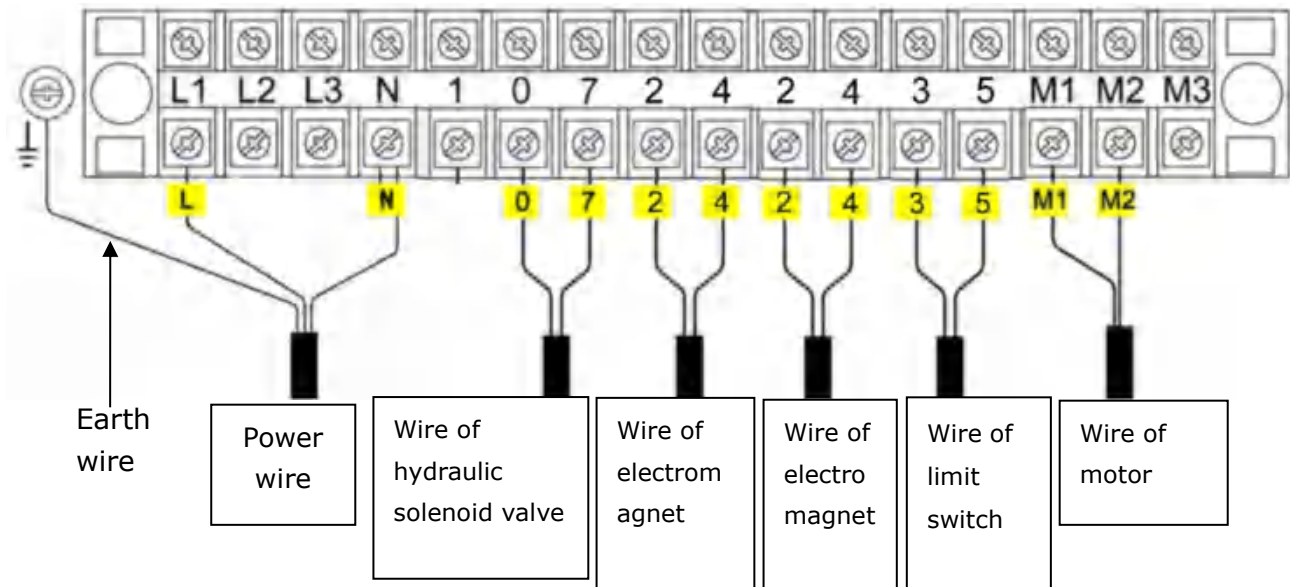


Fig. 36

3.2 Single phase Wire connection of hydraulic power unit (**See Fig. 37**).

Motor wires (M1、M2) are separately connected to two wires in the motor.

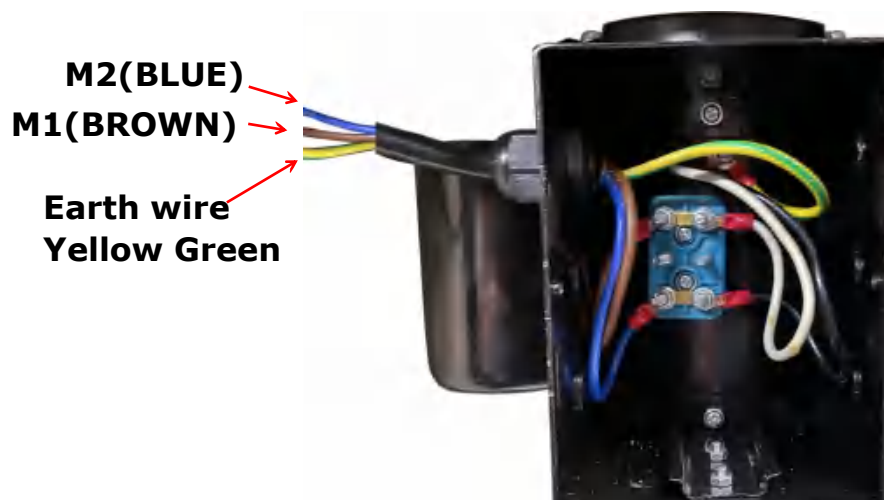


Fig. 37

3.3. Single phase Circuit diagram (See Fig. 38).

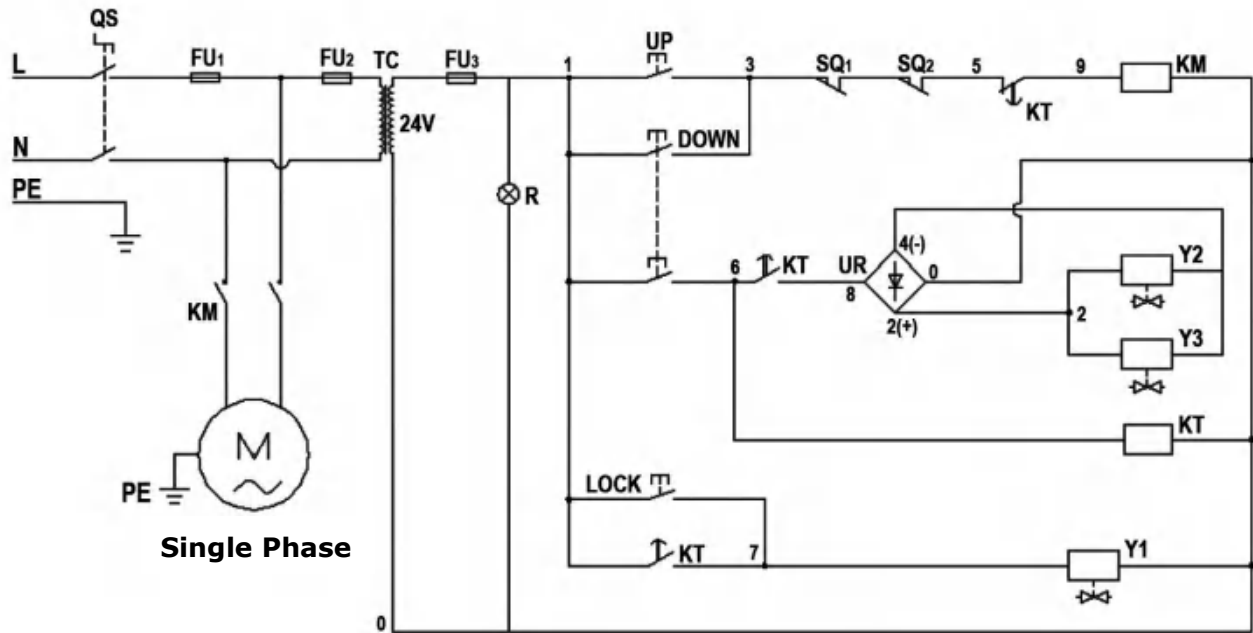


Fig. 38

Circuit diagram component list for 220V Power

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power Switch	QS	25A	10	Electromagnet	Y ₂ Y ₃	24V DC
2	Breaker	FU ₁	3P	11	Push Button	UP	Single
3	Breaker	FU ₂	1P	12	Push Button	Down	Duplex
4	Breaker	FU ₃	1P	13	Push Button	Lock	Single
5	AC Contactor	KM	24V AC	14	Transformer	TC	24V AC
6	Time Relay	KT	24V AC	15	Motor	M	Three phases
7	Cylinder Limit switch	SQ1	10A	16	Indicator	R	White(24V)
8	Control bar limit switch	SQ2	10A	17	Rectifier bridge	UR	KBPC10-10
9	Hydraulic Solenoid Valve	Y ₁	24V AC				

Q.Tighten all the hydraulic fittings, and fill the reservoir with hydraulic oil.

Note: In consideration of Hydraulic Power Unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#.

R. Install lifting arms and adjust the arm locks.

1. Install the lifting arms (**See Fig. 39**)

2. Lowering the carriages down to the lowest position, then use the 8# socket head wrench to loosen the socket bolt (**See Fig. 40**)

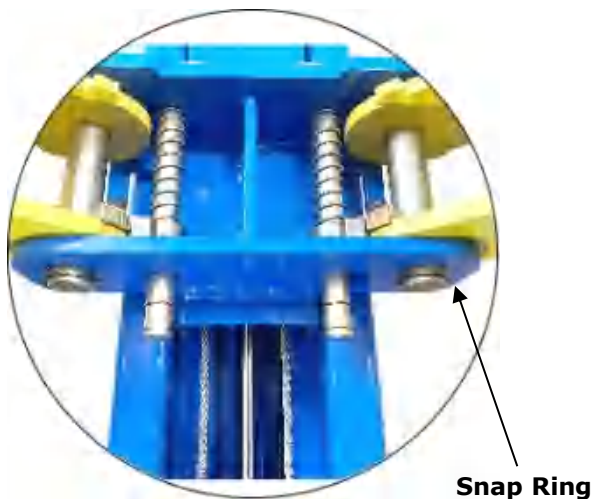


Fig. 39

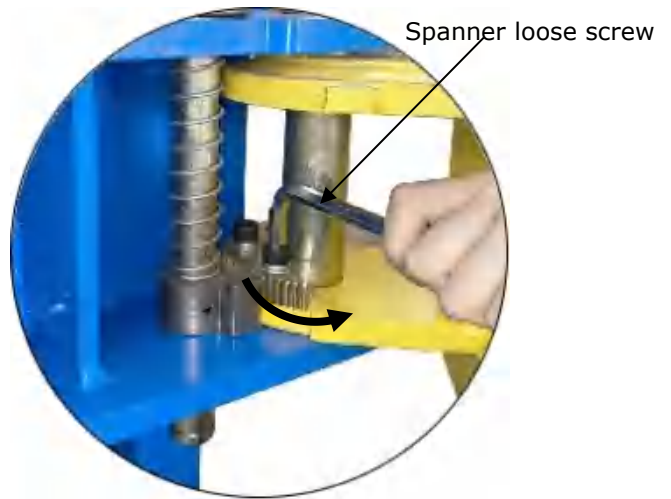


Fig. 40

3. Adjust the moon gear as arrow direction (**See Fig. 41**).

4. Adjust the moon gear and arm lock to make it to be meshed, then tighten bolts of arm lock (**See Fig. 42**).

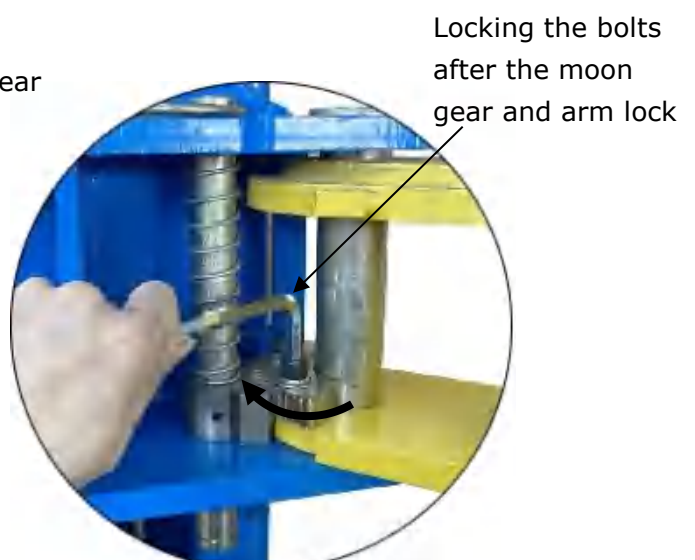
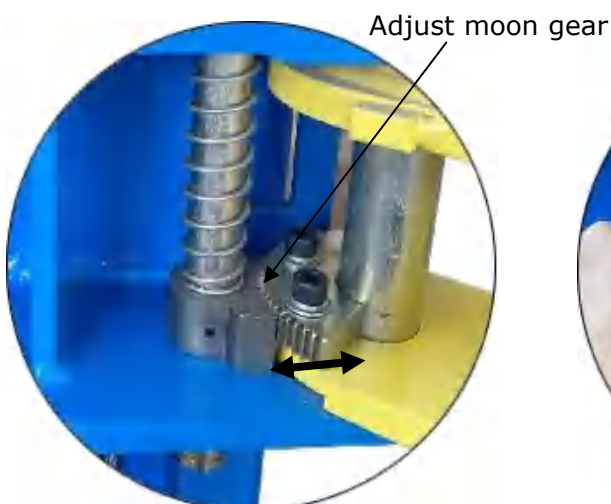


Fig. 41

Fig. 42

IV. TEST RUN

1. Adjustment of synchronous cable (See Fig. 43)

Use wrench to hold the cable fitting, meanwhile using box spanner to tighten the cable nut until the two cables are in the same tension.

If the two vehicle carriages do not Synchronized when lifting and lowering, please screw and tighten the cable nut on the lower side carriage.

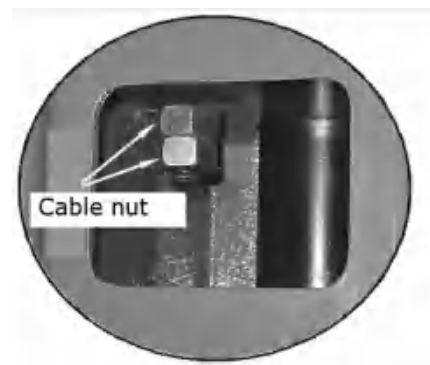


Fig. 43

2. Bleeding air from oil cylinder (See Fig. 44)

Rise the vehicle carriages and lock them at the same height, strain the safety cable and then release a little, and then tighten the safety cable nuts. Make sure the safety device can always lock the carriages properly.

At last, install the plastic cover of the safety device.

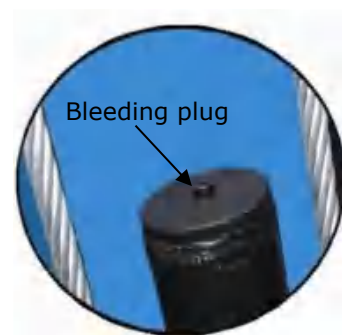
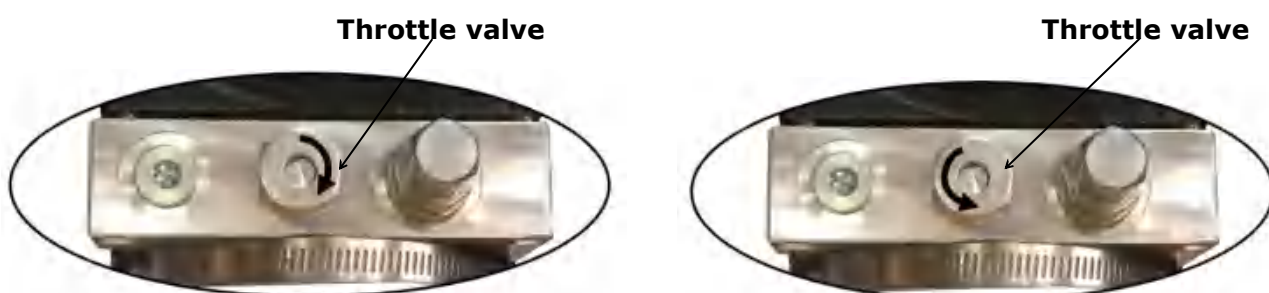


Fig. 44

3. Adjust the lowering speed

You can adjust the lowering speed of the lift if needing: screw the throttle valve clockwise to decrease the lowering speed, or counterclockwise to increase the lowering speed.



Adjust clockwise, decrease lowering speed

Counterclockwise, increase lowering speed

Fig. 45

4. Test with load

After finishing the above adjustment, test running the lift with load. Run the lift in low position for several times first, make sure the lift can rise and lower synchronously, the Safety Device can lock and release synchronously. And then test run the lift to the top completely. If there are anything improper, repeat the above adjustment.

NOTE: It may be vibrated when lifting at start, please lifting it with load for several times, the air would be bled and the vibration would be disappeared automatically.

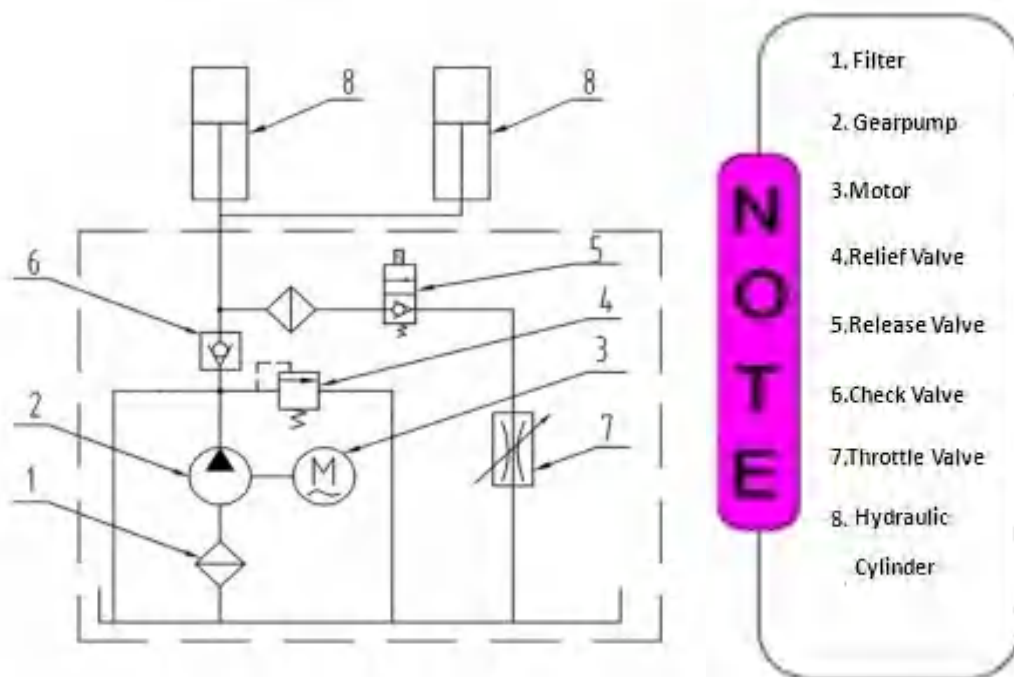


Fig. 46

V. OPERATION INSTRUCTIONS

Please read the safety tips carefully before operating the lift

To lift vehicle

1. Keep clean of site near the lift;
2. Position lift arms to the lowest position;
3. To shortest lift arms;
4. Open lift arms;
5. Position vehicle between columns;
6. Move arms to the vehicle's lifting point;

Note: The four lift arms must contact the vehicle's lifting point where manufacturers recommended

7. Turn on the power switch QS1, push button "**UP**" until the lift pads contact lifting points of vehicle completely. Recheck to make sure vehicle is secure;
8. Continue to raise the lift slowly to the desired working height, ensuring the balance of vehicle;
9. Push button "**LOCK**", lower lift onto the locking position. Make sure the lift is locked before work.

To lower vehicle

1. Be sure to clear the obstacles around and under the lift, only leaving operator in lift area;
2. Push button "**DOWN**", the lift rise 3 seconds and safety lock release and low down the car.
3. Open the arms and position them to the shortest length;
4. Drive away the vehicle.
5. Turn off the power.

VI.MAINTENANCE SCHEDULE

Monthly:

1. Re-torque the anchor bolts to 150 Nm;
2. Check all connectors, bolts and pins to insure proper mounting;
3. Lubricate cable with lubricant;
4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
5. Check safety device and make sure proper condition;
6. Lubricate all rollers and pins with 90wt. Gear oil or equivalent;

Note: All anchor bolts should take full torque. If any of the bolts does not function for any reason, DO NOT use the lift until the bolt has been replaced.

Every six months:

1. Make a visual inspection of all moving parts for possible wear, interference or damage.
2. Check and adjust as necessary, equalizer tension of the cables to insure level lifting.
3. Check columns for plumbness.
4. Check rubber pads and replace as necessary.
5. Check safety device and make sure proper condition.

Oil cylinder maintenance:

In order to extend the service life of the oil cylinder, please operate according to the following requirements.

1. Recommend to use N46 anti-wear hydraulic oil.
2. The hydraulic oil of the lifts should be replaced regularly during using. Replace the hydraulic oil 3 months after the first installation, Replace the hydraulic oil once a year afterwards.
3. Make at least one full trip raising and lowering per day. For exhausting the air from the system, which could effectively avoid the corrosion of the cylinder and damage to the seals caused by presence of air or water in the system.
4. Protect the outer surface of the oil cylinder's piston rod from bumping and scratching, and timely clean up the debris on the oil cylinder dust-ring and the piston rod.

VII.TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	<ol style="list-style-type: none"> 1. Start Button does not work 2. Wiring connections are not in good condition 3. Motor burned out 4. AC contactor burned out 	<ol style="list-style-type: none"> 1. Replace start button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace AC contactor
Motor runs but the lift is not raised	<ol style="list-style-type: none"> 1. Motor runs in reverse rotation 2. Gear Pump out of operation 3. Release Valve in damage 4. Relief valve or check valve in damage 5. Low oil level 	<ol style="list-style-type: none"> 1.Reverse two power wire 2.Repair or replace 3.Repair or Replace 4.Repair or replace 5.Fill tank
Lift does not stay up	<ol style="list-style-type: none"> 1. Release valve out of work 2. Relief valve or check valve leakage 3. Cylinder or fittings leaks 	Repair or replace
Lift raises slowly	<ol style="list-style-type: none"> 1. Oil line is jammed 2. Motor running on low voltage 3. Oil mixed with air 4. Gear Pump leaks 5. Overload lifting 	<ol style="list-style-type: none"> 1. Clean the oil line 2. Check electrical system 3. Fill tank 4. Repair or replace 5. Check load
Lift cannot lower	<ol style="list-style-type: none"> 1. Safety device are in activated 2. Release valve in damage 3. Electromagnet in damage 4. Oil system is jammed 5. Hydraulic solenoid valve out of work 	<ol style="list-style-type: none"> 1. Release the safeties 2. Repair or replace 3. Replace 4. Clean the oil system 5. Repair or replace

VIII. EXPLODED VIEW

Model ES245SAC

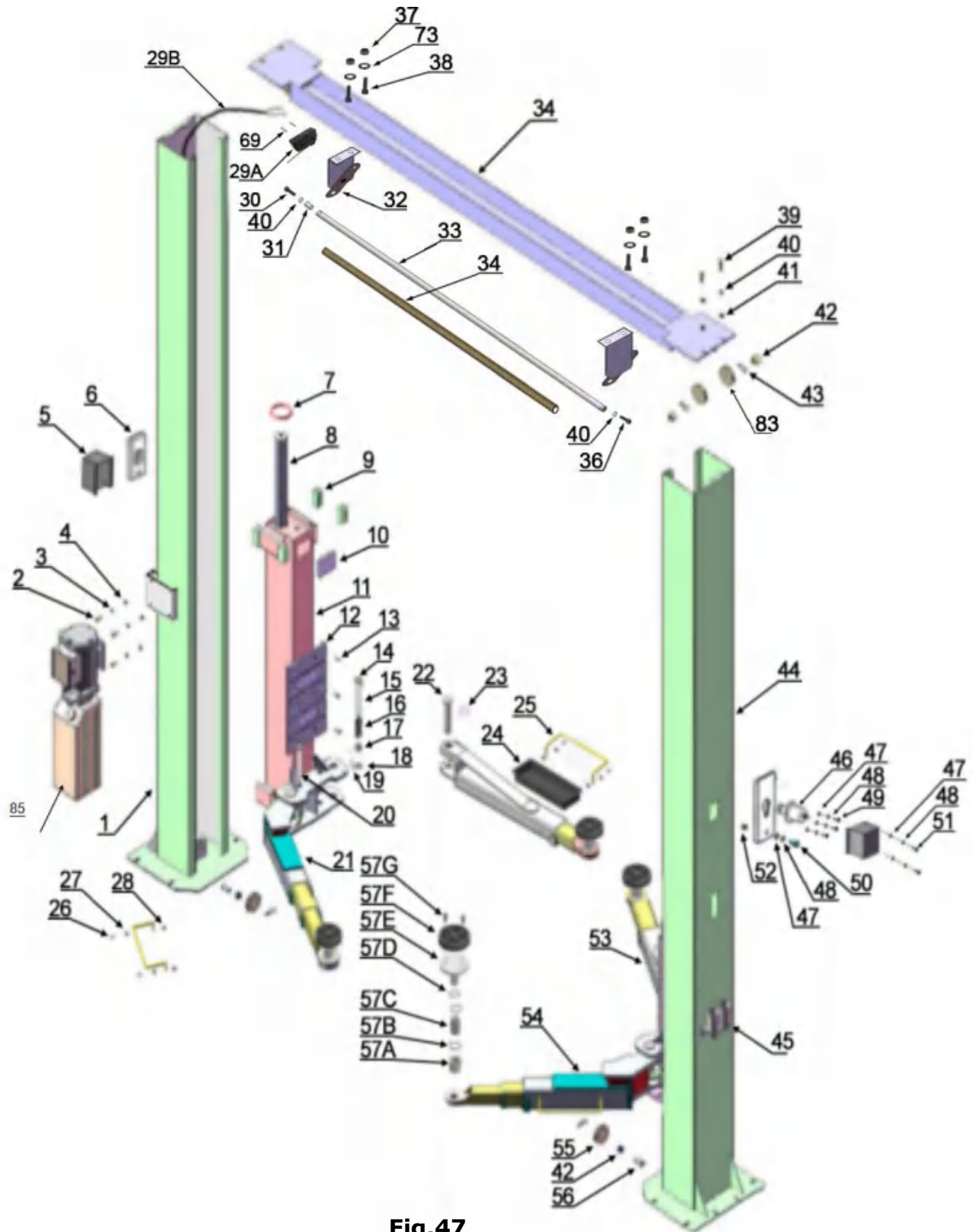


Fig.47

Parts List For Model ES245SAC

Item	Part#	Description	Qty.
1	1102701001A	Power-side column	1
2	10209003	Hex bolt M8*25	4
3	10209004	Plastic ring	8
4	10209005	Self lock nut	4
5	11203292	Protective cover for electromagnet	2
6	11203286	Safety lock	2
7	10209111	Cylinder coil	2
8	10209014-02	Cylinder	2
9	10209015	Slider	16
10	10209016	Carriage cover	2
11	11209208	Carriage	2
12	10209018	Protective Rubber	2
13	10209019	Cup Head Bolt M6*16	12
14	10209153	Arm lock handle ring	4
15	11217046A	Arm lock handle(left)	2
16	10217045	Compression spring	4
17	10217044-01	Arm lock	4
18	10206032	Snap ring	4
19	10206036	Hair pin	4
20	11217046	Arm lock handle(right)	2
21	10279013	Lifting arm assy. (Right Front arm)	1
22	11217168	Lifting arm pin	4
23	10520023	Snap ring	4
24	10206156	Tool tray(Short)	2
25	11206154	Short guardrail	2
26	10201002	Hex Bolt M8*16mm	8
27	10209034	Lock Washer	12
28	10209033	Washer	12
29		Limit switch assy. for top beam control bar	1
29A	1002022001	Limited switch CZ-7120 10A	1
29B		Cable 2*1*2*300	2
30	10201122	Hex Bolt M8*35	1
31	110207007	Connecting bush φ14*20	1
32	1103072003A	Control Bar Fixing Bracket	2
33	1102072001	Control Bar φ22*2400	1
34	10206025A	Foam tube	1
35	11211011-01	Top Beam	1
36	10720002	Socket Bolt M10*25	1
37	10209056	M10 Self-locking Nut	4
38	10206017	Hex Bolt M10*20	4
39	10209046	Hex bolt	4

40	10209039	Lock washer	6
41	10209021	Hex Nut M10	4
Item	Part#	Description	Qty.
42	10209057A	Bronze Bush	6
43	10209012	Elastic latch	6
44	1102701001B	Off-side column	1
45	11203035	Extension Adapter	2
46	1002695013	Electromagnet assy.	2
47	10420045	Washer	6
48	10209149	Lock Washer	14
49	10207021	Socket bolt M6*12	8
50	85090127	Hex bolt M6*25	2
51	10209009	Cup Head Bolt M6*8	8
52	10420018	Self locking nut M6	2
53	10279014	Rear Lifting arm assy.	2
54	10279012	Front left Lifting arm assy.	1
55	11209045	Pulley	2
56	11209044	Pulley pin	2
57	10203054	Rubber pad assy.	4
57A	11203024	Adjustment Adapter	4
57B	10203042	Snap ring	8
57C	11203025	Adjustment Screw	4
57D	10203041	Snap ring	4
57E	11203026	Rubber Pad Frame	4
57F	10203043	Rubber pad	4
57G	10420043	Socket bolt M8*20	8
58	1002695018	Wire 2*1 ² *620	1
59	1002705009	Wire 2*1 ² *8000	1
60	10211018-01	Cable assy. Φ9.52×9402mm	2
61	10209066	Cable nut M16	4
62	10201131	Anchor bolt M8*140	12
63	10211015A-02	Oil hose 1/4*5343mm	2
64	10211016	T fitting	1
65	10211017	Extended straight fitting	2
66		Limit switch assy. of cylinder	1
66A	10206013A	Limit switch 8108	1
67	10620109	Cup head bolt M4*18	2
68	10620095	Hex nut M4	4
69	10420164	Cup head bolt M4*30	4
70	10620065	Shim (2mm)	10
71	10201090	Shim (1mm)	10
72	10211014-01	Oil hose 1/4*4280mm	1
73	10209022	Washer Φ10	4
74	1002695007	Electric control box (3 Phase)	1or1
	1002695008	Electric control box (Single Phase)	

75	10209145	Cup head bolt	4
76	10209060	90° fitting for power unit	1
Item	Part#	Description	Qty.
77	10680003	Hex bolt M8*12	4
78	1102504002	Stackable Adapter 3"	4
79	1002695019	Bellows ϕ 20*1*250	1
80	10420016A	Wire 4*2.5 ² *900	1
81	10420168	White wrapping pipe ϕ 10*2000mm	1
82	1002695018	Wire 2*1 ² *620	1
83	11206020	Pulley	4
84	10209128	Washer ϕ 20	4
85	10620059	Wire Protective Ring Φ 12	2
86	81523001	Power unit 220V	1or1
	81523002	Power unit 380V	
87		Parts box	1

8.1 Rear arm Assy. (10279014) exploded view:

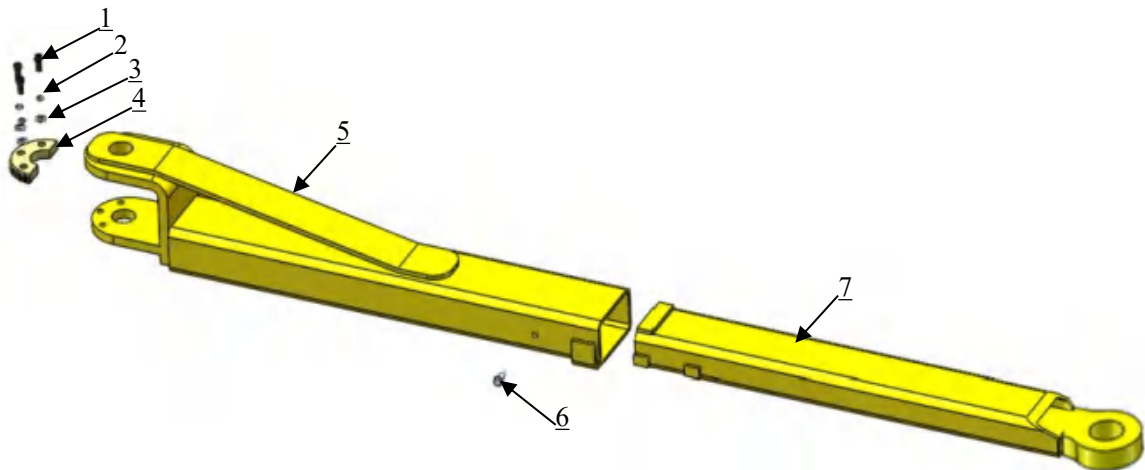


Fig.48

No	Part no	Name	Qty
1	10206048	Socket Bolt	6
2	10209039	Lock washer	6
3	10209022	Washer	6
4	11206049	Moon Gear	2
5	11206192	Outer arm - Rear	2
6	10201149	Cut Head Bolt	2
7	11206194	Inner arm - Rear	2

8.2. Front left arm assy. (10279012) exploded view:

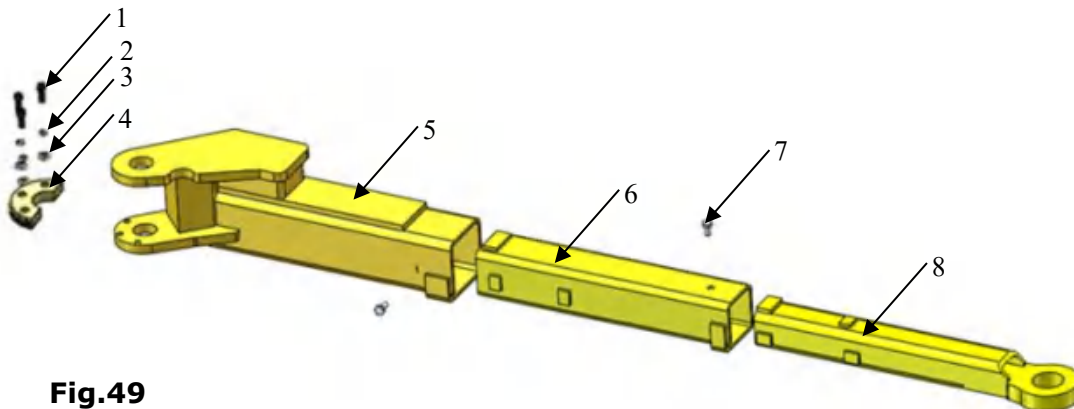


Fig.49

No	Part no	Name	Qty
1	10206048	Socket Bolt	3
2	10209039	Lock washer	3
3	10209022	Washer	3
4	11206049	Moon Gear	1
5	11279005	Outer arm - Front left	1
6	10206189	Middle Arm - Front	1
7	11201149	Cut Head Bolt	2
8	11201049B	Inner arm - Front	1

8.3. Front right arm assy. (10279013)exploded view:

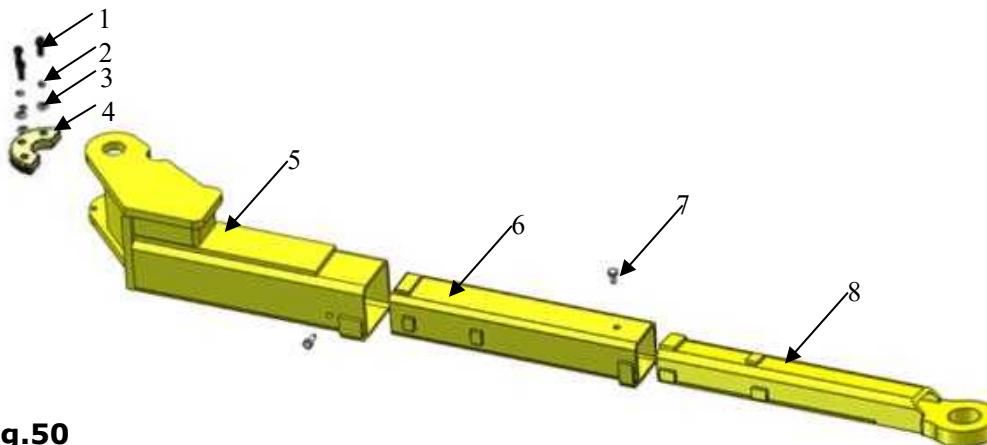


Fig.50

No	Part no	Name	Qty
1	10206048	Socket Bolt	3
2	10209039	Lock washer	3
3	10209022	Washer	3
4	11206049	Moon Gear	1
5	11279006	Outer arm - Front right	1
6	10206189	Middle Arm - Front	1

7	11201149	Cut Head Bolt	2
8	11201049B	Inner arm - Front	1

8.4. Cylinders (10209014-02)

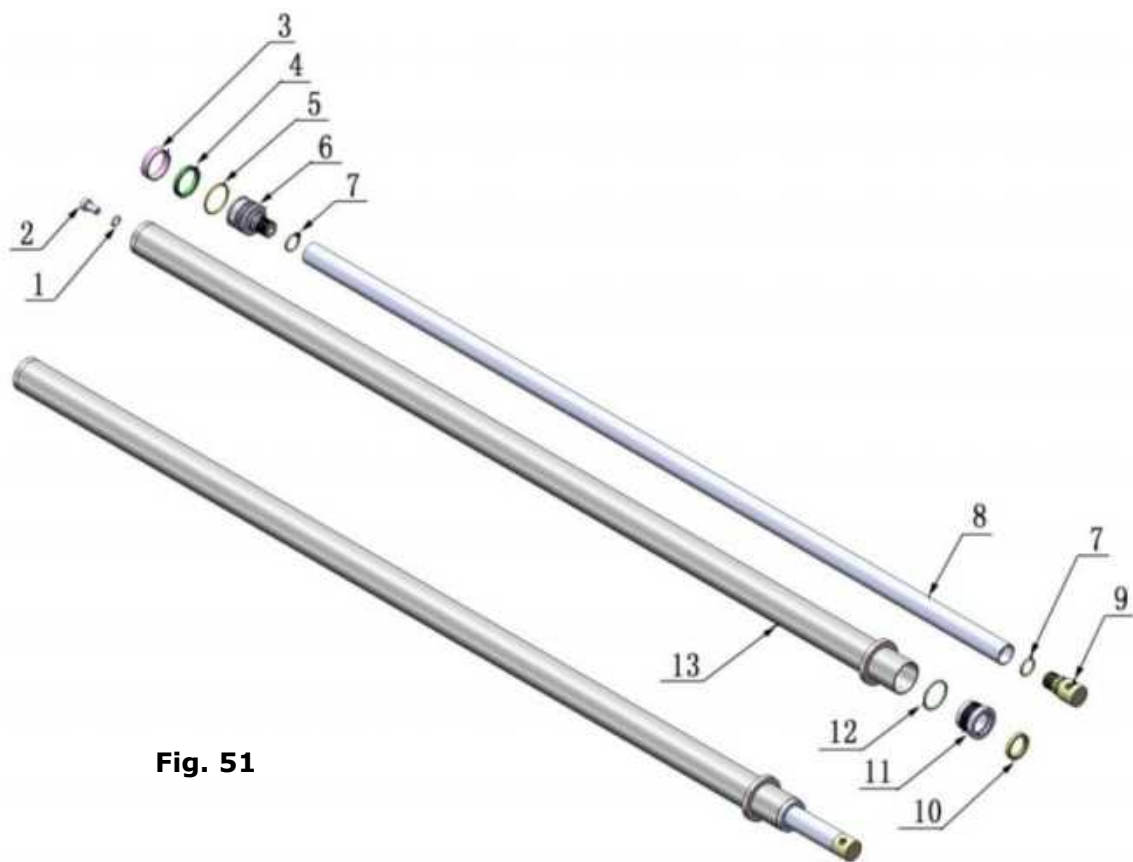


Fig. 51

Item NO.	Parts No.	Description	Qty.
1	10209069	O-Ring	2
2	10209070	Bleeding Plug	2
3	10209071	Support Ring	2
4	10209072	Y-Ring	2
5	10209073	O-Ring	2
6	11209074	Piston	2

7	11209075	O-Ring	4
8	11209076-01	Piston Rod	2
9	11209077	Piston Rod Fitting	2
10	10209078	Dust Ring	2
11	11209079	Head Cap	2
12	10209080	O-Ring	2
13	11209081-01	Cylinder tube	2

8.5 Electric control box explosion view

1002695007 Single phase

1002695008 Three phase

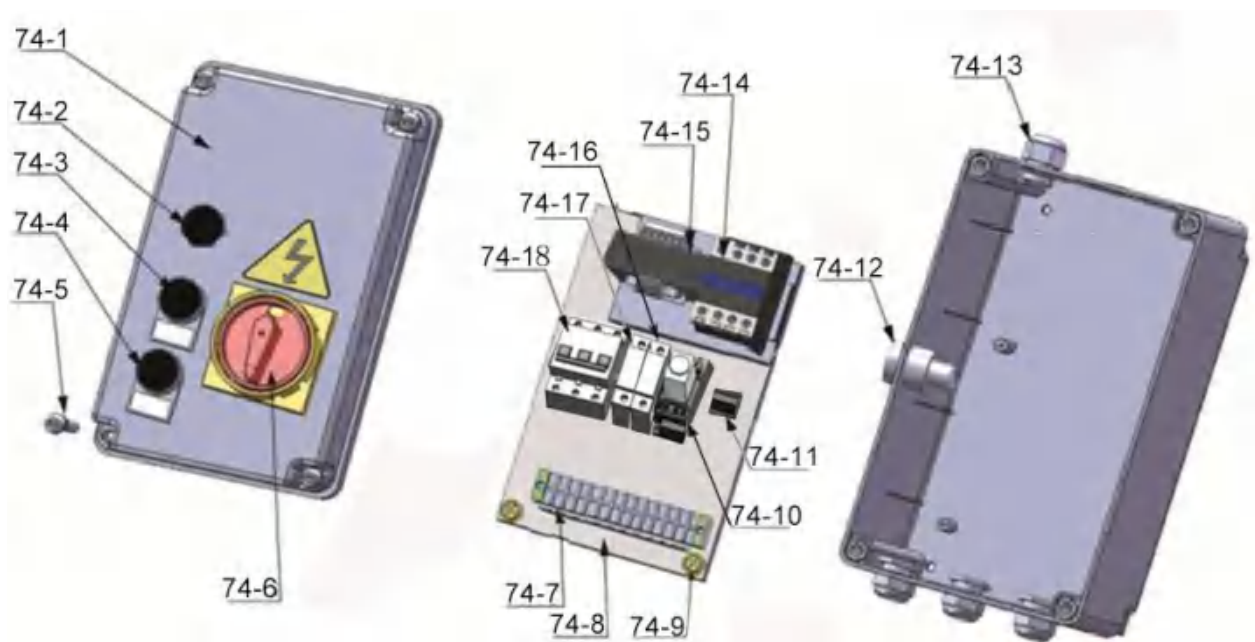


Fig. 52

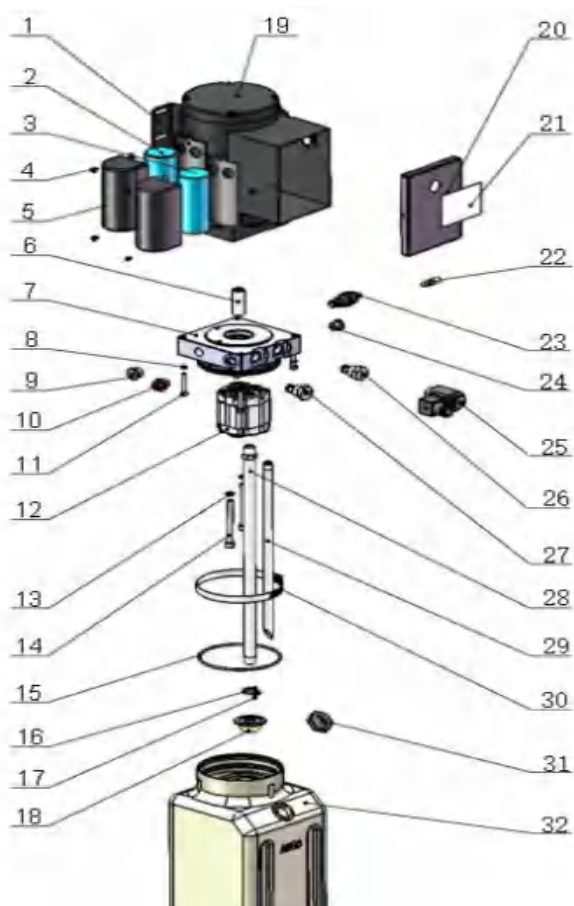
Control box part list

No	Part no	Name	Qty
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74-1	10420069A	Control panel	1
74-2	10420071	UP button	1
74-3	10209099A	LOCK button	1
74-4	10420072	DOWN button	
74-5	10420139	Screw for control box	4
74-6	41010217	Power switch(QS1)	1
74-7	1061K100	Wire connecting switch	1
74-8	10420133A	Component mounting plate	1
74-9	10420073	Cup head bolt	4
74-10	10420083	Time relay(KT)	1
74-11	10580101	Rectifier bridge	1
74-12	10201094	Indicate light	1
74-13	10420088	White cable wire fitting	4
74-14	10420084A	24V contractor(KM)	1
74-15	10203297	Transformer(TC)	1
74-16	10202048	Circuit breaker 1P	1
74-17	10202049	Circuit breaker 1P	1
74-18	10202047	Circuit breaker 3P for 3 phase	1or1
	10202046	Circuit Breaker 2P for single phase	

8.6. EXPLODED VIEW OF POWER UNIT (81523001/81523002)

220V/50HZ/single Phase



380V/50HZ/3 Phases

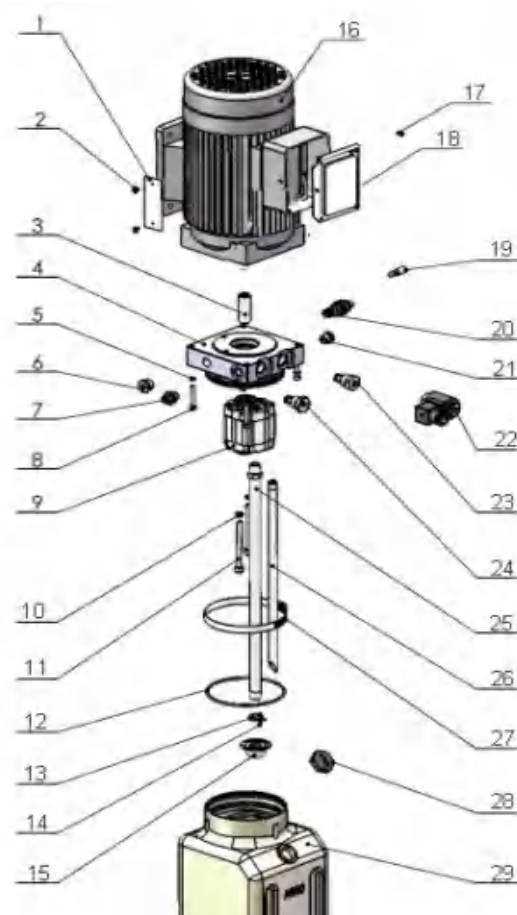


Fig.53

81523001 Power unit part list (220V/50HZ/1 phase)

No	Part no	Name	Qty
1	81400180	Rubber pad	2
2	81400250	Start Capacitor	1
3	81400200	Run Capacitor	1
4	10420148	Cup Head Bolt with Washer	4
5	81400066	Capacitor cover	2
6	81400363	Motor connecting shaft	1
7	81400362	Manifold block	1
8	10209149	Washer	4
9	81400276	Hex iron plug	1
10	81400259	Red plastic plug	1
11	85090142	Hex nut	4
12	81400292	Gear pump	1
13	10209034	Hair washer	2
14	81400295	Socket Bolt	2
15	81400365	O ring	1
16	10209152	Ties	1
17	85090167	Magnet	1
18	81400290	Filter	1
19	81400590	Motor	1
20	81400208	Motor connecting cover	1

21	71111190	Label	1
22	81400560	Throttle Valve	1
23	81400266	Relief valve	1
24	81400284	Inner Hex Iron Plug	1
25	81400420	Hydraulic Solenoid Valve Coil	1
26	81400423	Release Valve	1
27	81400566	Check Valve	1
28	81400288	Oil Inlet Pipe	1
29	81400289	Oil Return Pipe	1
30	81400364	Clamp	1
31	81400263	Filler Cap	1
32	81400275	Oil tank	1

81523002 Power unit part list (380V/50Hz/3 phase)

No	Part no	Name	Qty
1	71111191	Name plate	1
2	81400300	Cross head screw	2
3	81400363	Motor connecting shaft	1
4	81400362	Manifold block	1
5	10209149	washer	4
6	81400276	Hex iron plug	1
7	81400259	Red plastic plug	1
8	85090142	Socket Bolt	4
9	81400292	Gear pump	1
10	10209034	Spring washer	2
11	81400295	Socket Bolt	2
12	81400365	O ring	1
13	10209152	Ties	1
14	85090167	Magnet	1
15	81400290	Filter	1
16	81400286	Motor	1
17	10420148	Cup Head Bolt with Washer	2
18	81400208	Motor connecting cover	1
19	81400560	Throttle Valve	1

20	81400266	Relief valve	1
21	81400284	Inner Hex Iron Plug	1
22	81400420	Hydraulic Solenoid Valve Coil	1
23	81400423	Release Valve	1
24	81400566	Check Valve	1
25	81400288	Oil Inlet Pipe	1
26	81400289	Oil Return Pipe	1
27	81400364	Clamp	1
28	81400263	Filler Cap	1
29	81400275	Oil tank	1

Illustration of hydraulic valve for hydraulic power unit

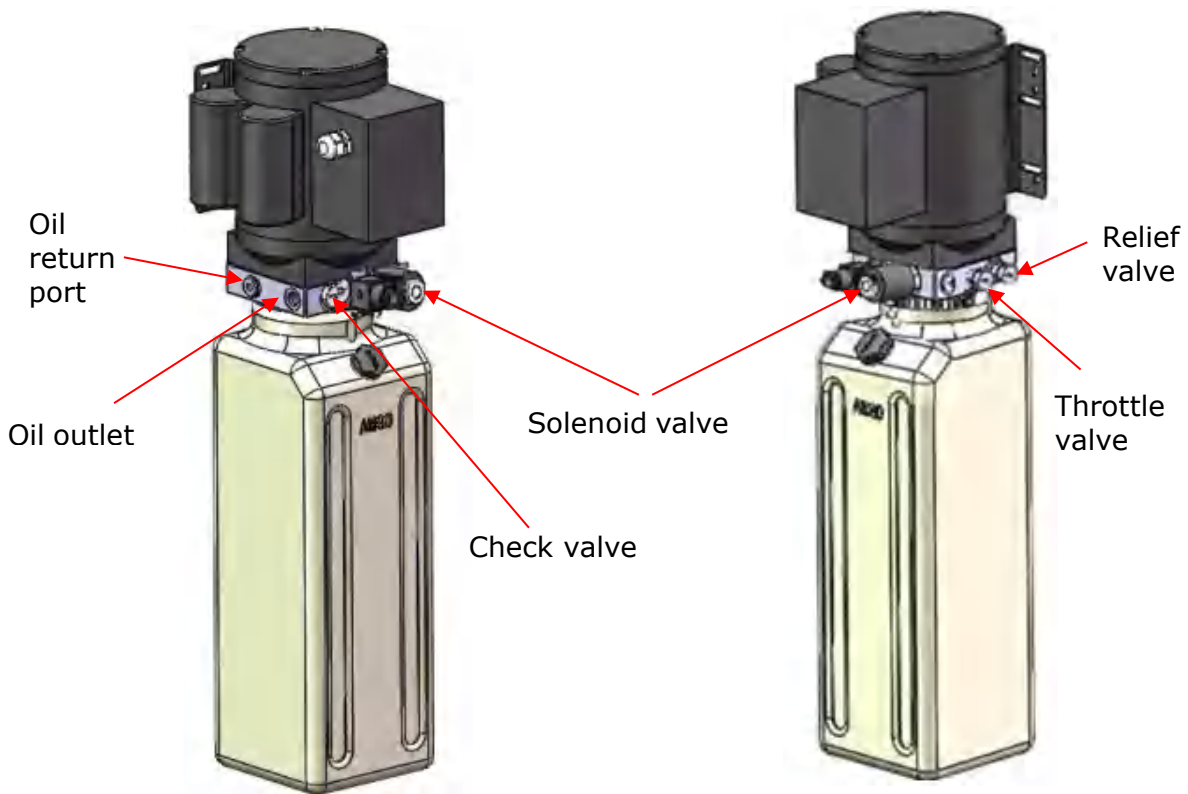


Fig. 54

IX. Lift disposal.

When the car lift cannot meet the requirements for normal use and needs to be disposed, it should follow local laws and regulations.



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