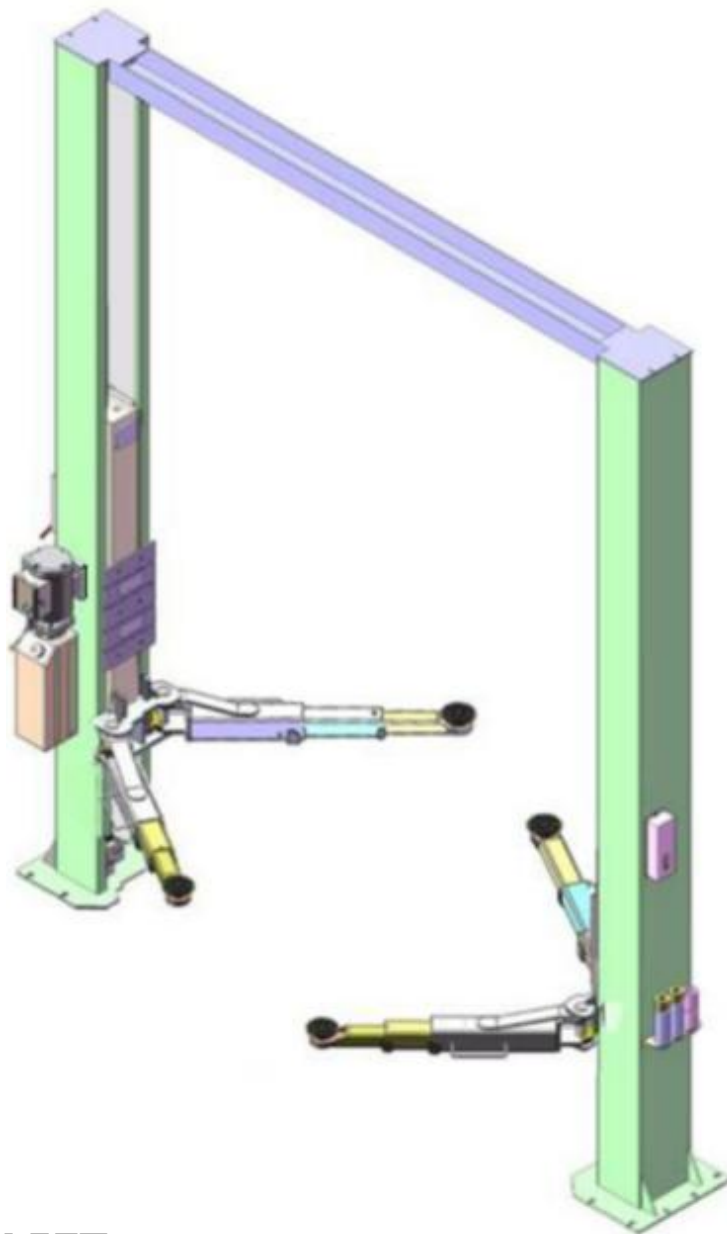




Original

Installation And Service Manual



TWO-POST LIFT

Model:210C 210SAC

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I. PRODUCT FEATURES AND SPECIFICATIONS

CLEARFLOOR DIRECT-DRIVED MODEL FEATURES

MODEL 210C (See Fig.1)

- Direct-driving design, minimize the lift wear parts and breakdown ratio.
- Dual hydraulic cylinders, designed and made on high standard, high quality seals.
- Self-lubricating UHMW Polyethylene sliders and bronze bush.
- Single-point safety release, and dual safety design.
- Clear-floor design, provide unobstructed floor space.
- Overhead safety shut-off device.
- With 4 three stages arms, make lifts easily find the lift point of the car.
- Stackable adapters 1.5", 2.5", 5" as standard.

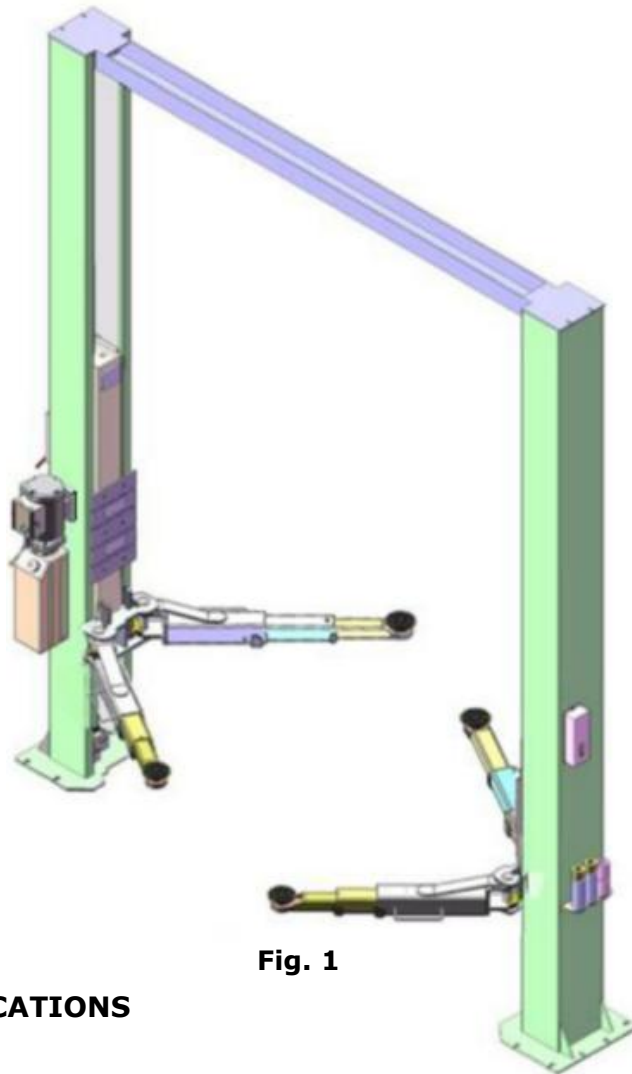


Fig. 1

MODEL 210C SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Minimum Pad Height	Motor
210C	Clear-floor Direct-drive	4500KG	60s	1890-2119mm	3854mm	3516mm	90-319mm	3.0HP

CLEARFLOOR DIRECT-DRIVED MODEL FEATURES

MODEL 210SAC (See Fig.2)

- Direct-driving design, minimize the lift wear parts and breakdown ratio.
- Dual hydraulic cylinders, designed and made on high standard, high quality seals.
- Self-lubricating UHMW Polyethylene sliders and bronze bush.
- Single-point safety release, and dual safety design.
- Clear-floor design, provide unobstructed floor space.
- Overhead safety shut-off device.
- With Super-asymmetric arms
- Stackable adapters 1.5", 2.5", 5" as standard.

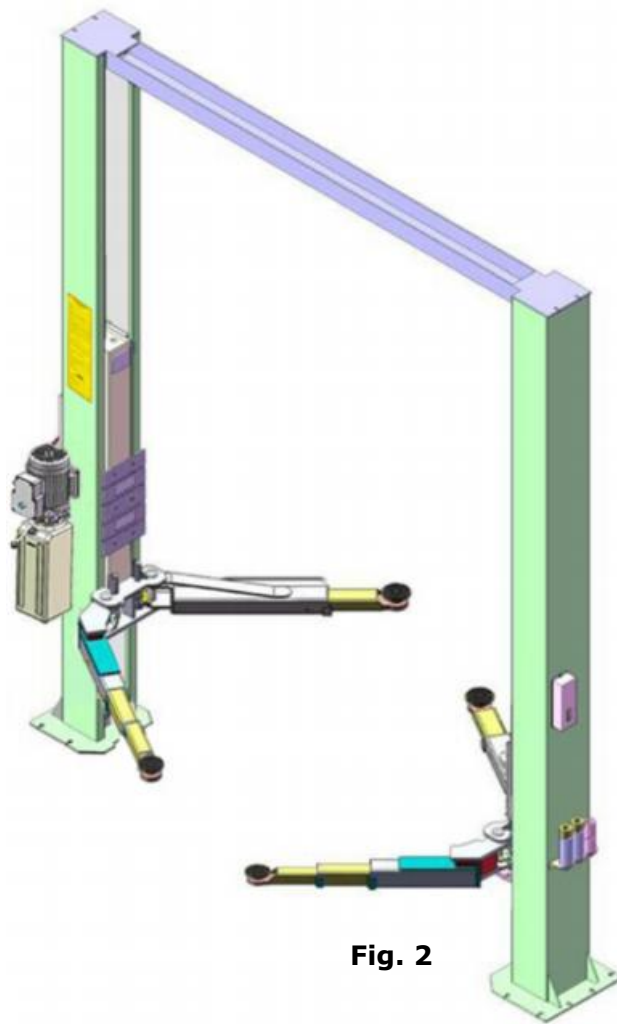


Fig. 2

MODEL 210SAC SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Minimum Pad Height	Motor
210SAC	Clear-floor Direct-drive	4.5T	60S	1890-2119mm	3854	3516mm	90-319mm	3.0HP

Arm Swings View

For Model 210C

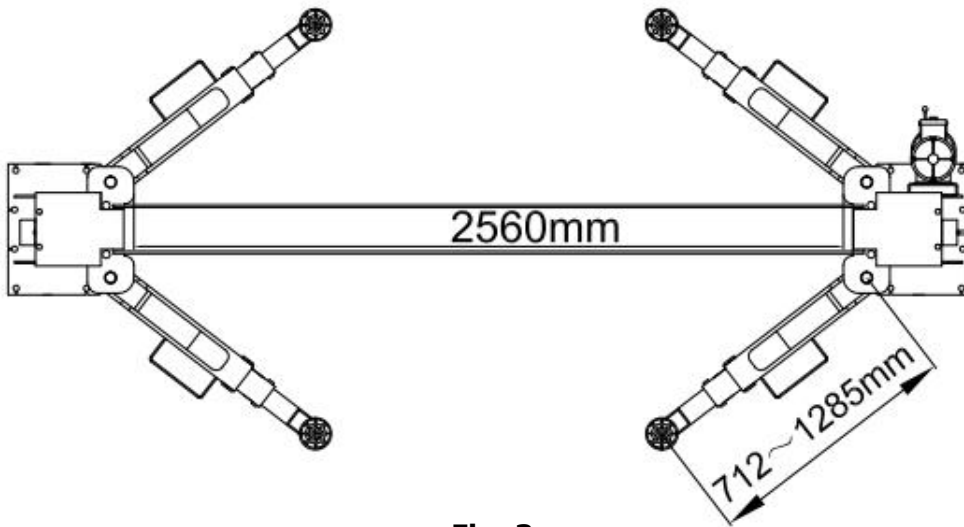


Fig. 3

For Model 210SAC

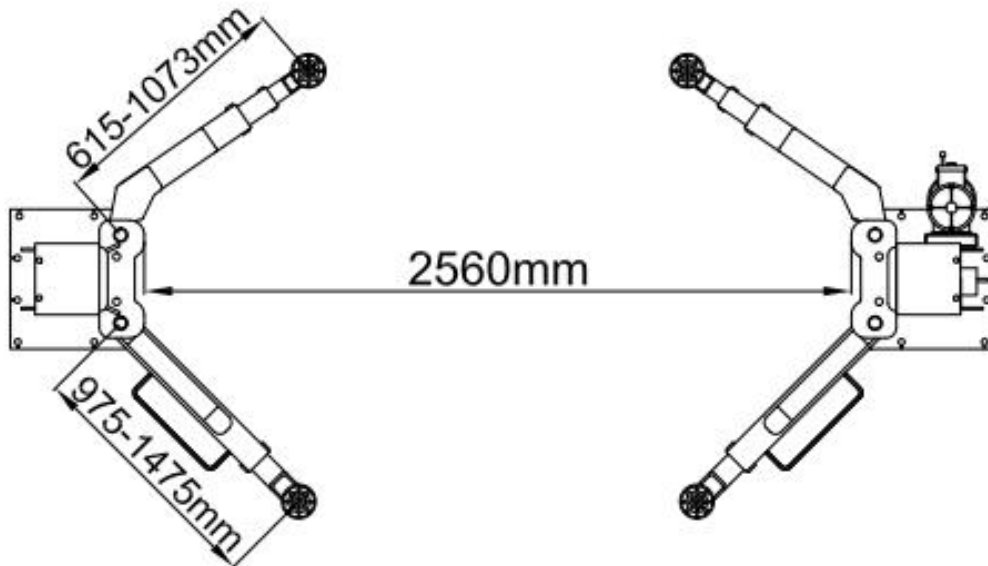


Fig. 4

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

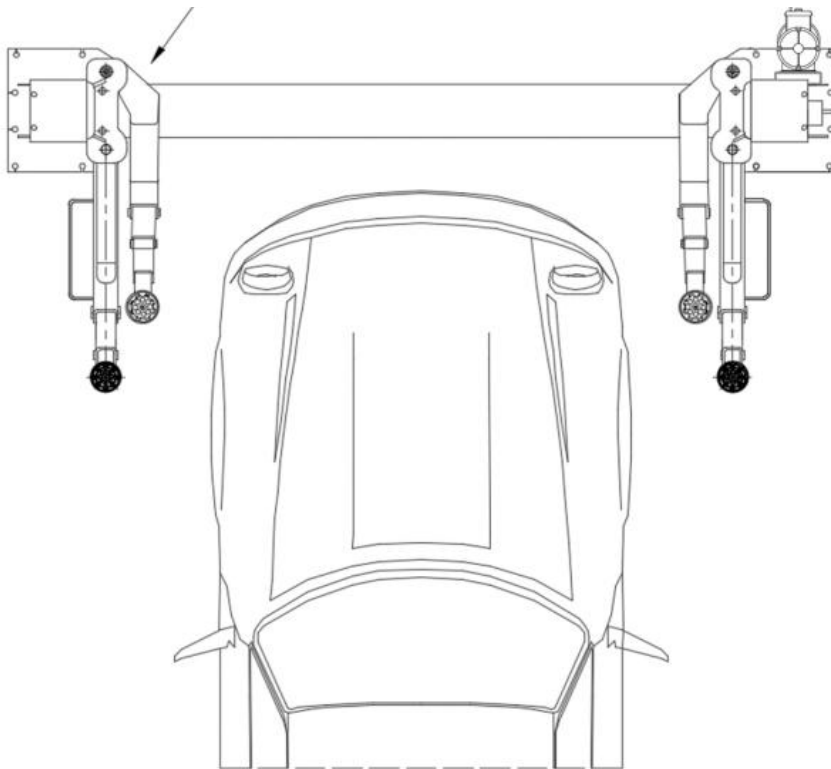


Fig. 5

Swing and extending the arms to the lifting point of vehicle

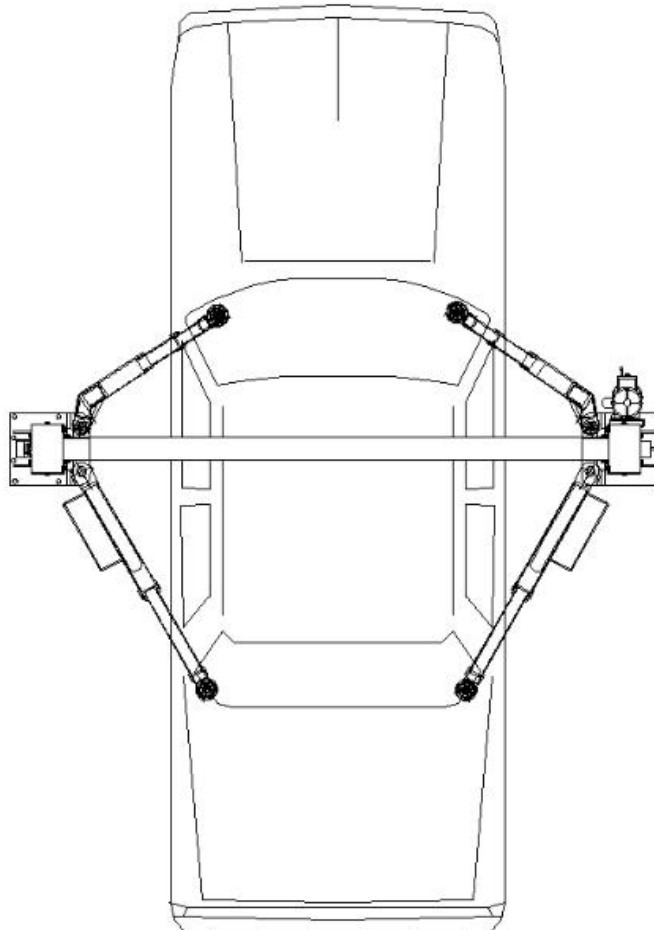


Fig. 6

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#, 15#, 17#, 19#, 24#, 27#)



- ✓ Carpenter's Chalk



- ✓ Screw Sets



- ✓ Tape Measure (7.5m)



- ✓ Pliers



- ✓ Socket Head Wrench (3#, 6#)



- ✓ Lock Wrench



Fig. 7

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.8

D. SPECIFICATIONS OF CONCRETE (See Fig. 9)

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 without cracks.

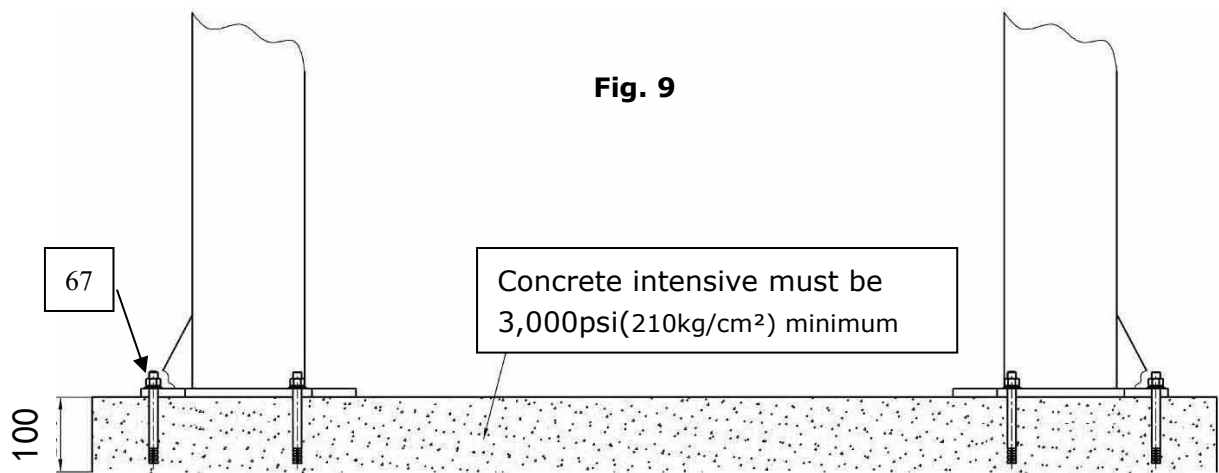


Fig. 9

E. POWER SUPPLY

The electrical source must be 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. 10).

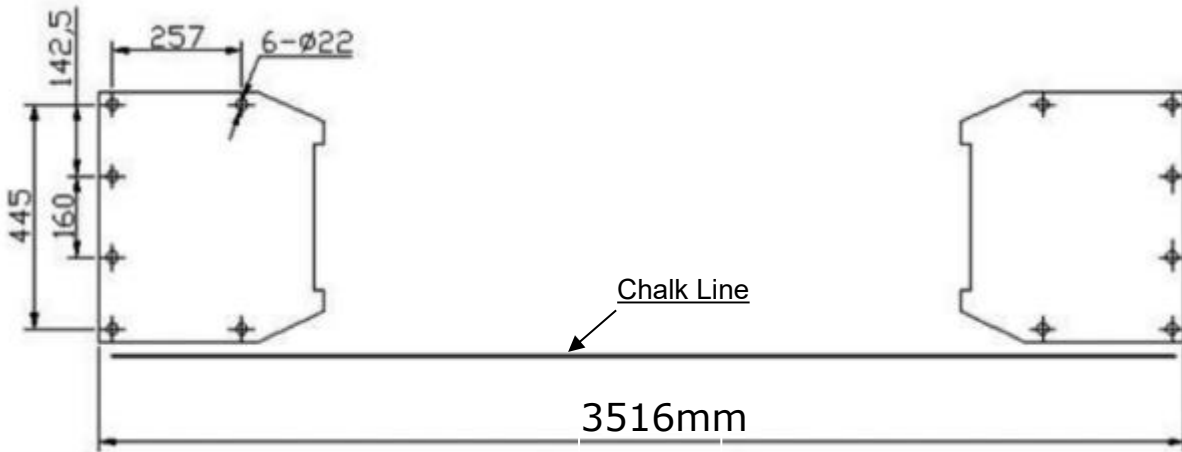


Fig. 10

C. Check the parts before assembly

1. Packaged lift and hydraulic power unit (see Fig. 11)

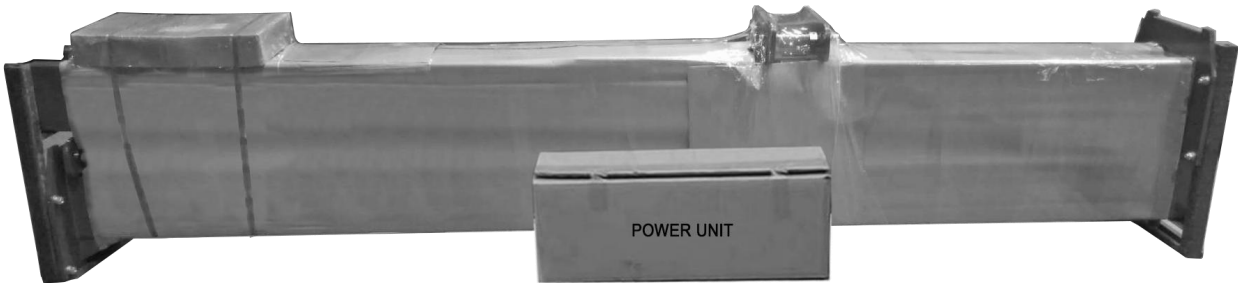
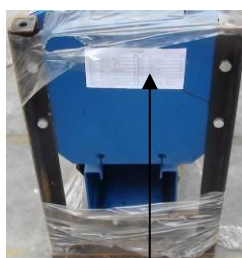
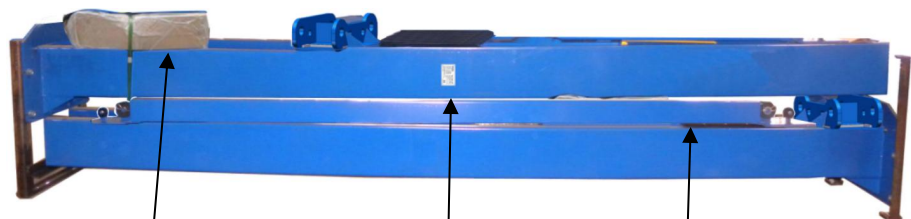


Fig. 11

2. Move the lift aside with a fork lift or hoist, and open the outer packing carefully, take off the parts from upper and inside the column, take out the parts box, check the parts according to the shipment parts list (See Fig. 12).



Shipment Parts



Parts box. Serial number Top beam

Fig. 12

3. Loose the screws of the upper package stand, take off the upper column and remove the package stand.

4. Move aside the parts and check the parts according to the shipment parts list

4.1 For Model 210C, (See Fig. 13, 14).



Fig. 13

Parts in the shipment parts list



Fig. 14

Parts in the parts box (37)

4.2 For Model 210SAC (See Fig. 15, 16).



Fig. 15

Parts in the shipment parts list



Fig. 16

Parts in the parts box (37)

5. Open the bag of parts and check the parts of the parts bag according to parts bag list (See Fig. 17).

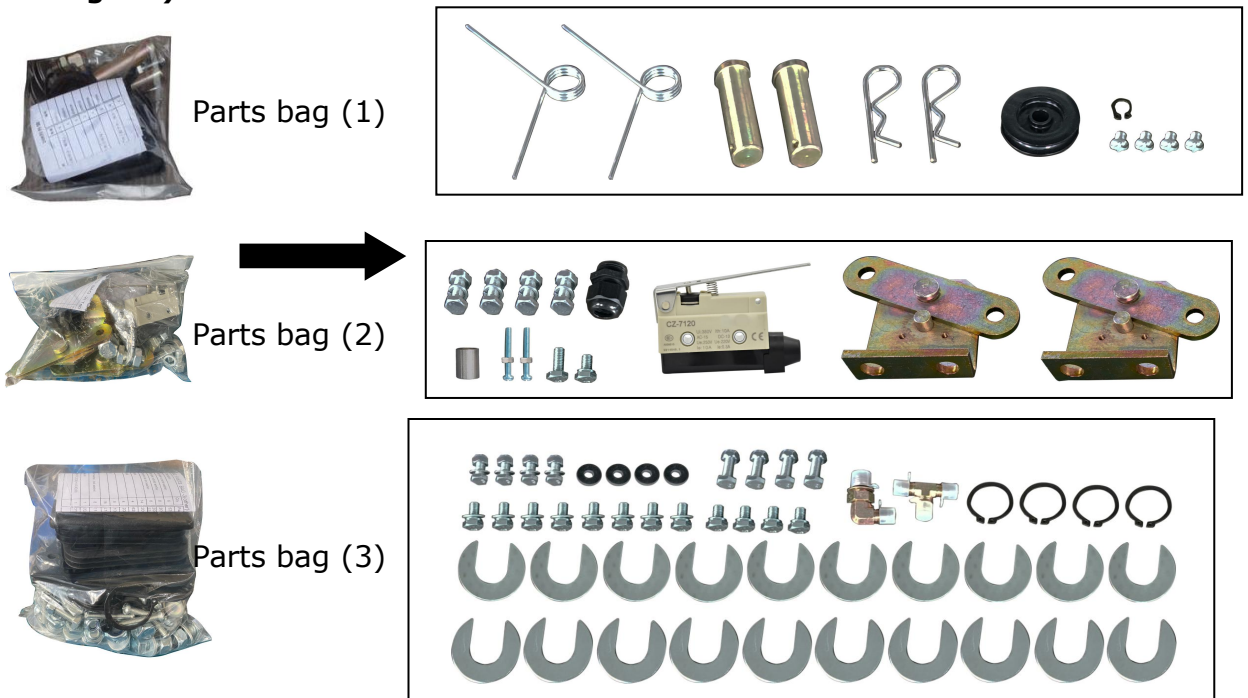


Fig. 17

D. Position power side column

Lay down two columns on the installation site parallel, position the power side column according to the actual installation site. Usually, it is suggested to install power side column on the front-right side from which vehicles are driven to the lift (See Fig. 18).

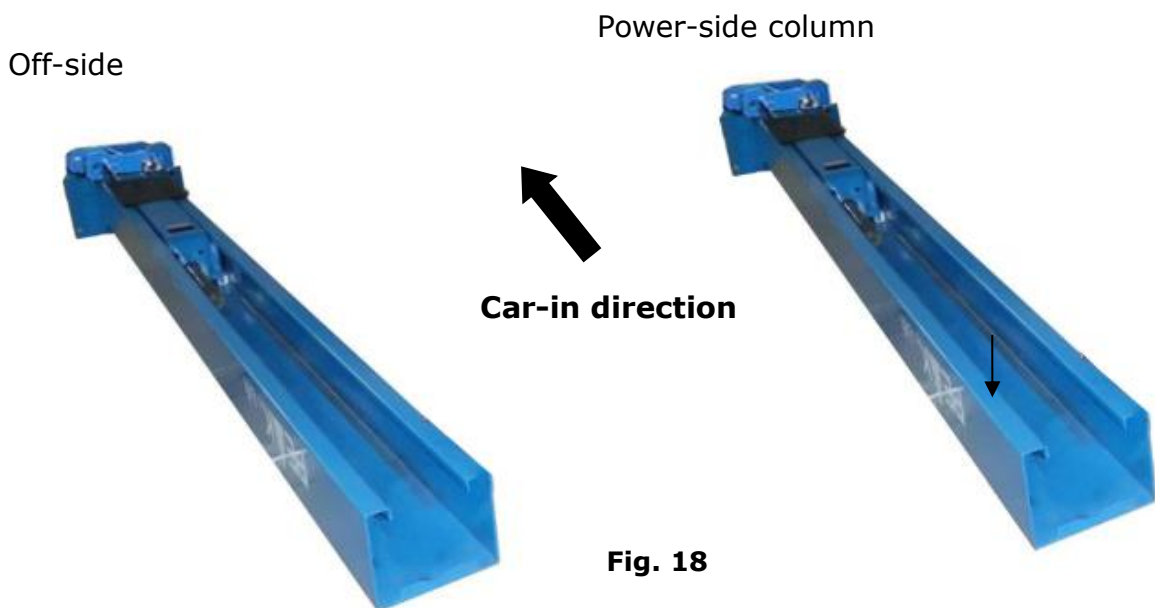


Fig. 18

E. Lay down aside the columns with cables and oil hoses installed, face the open way of each columns. (Fig.19)

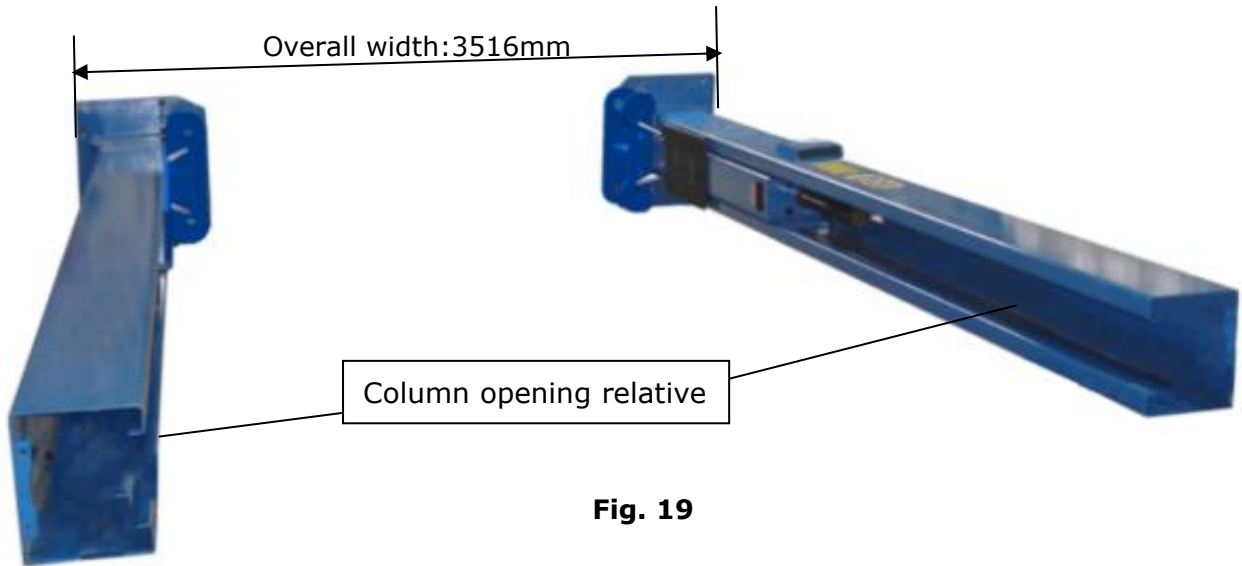
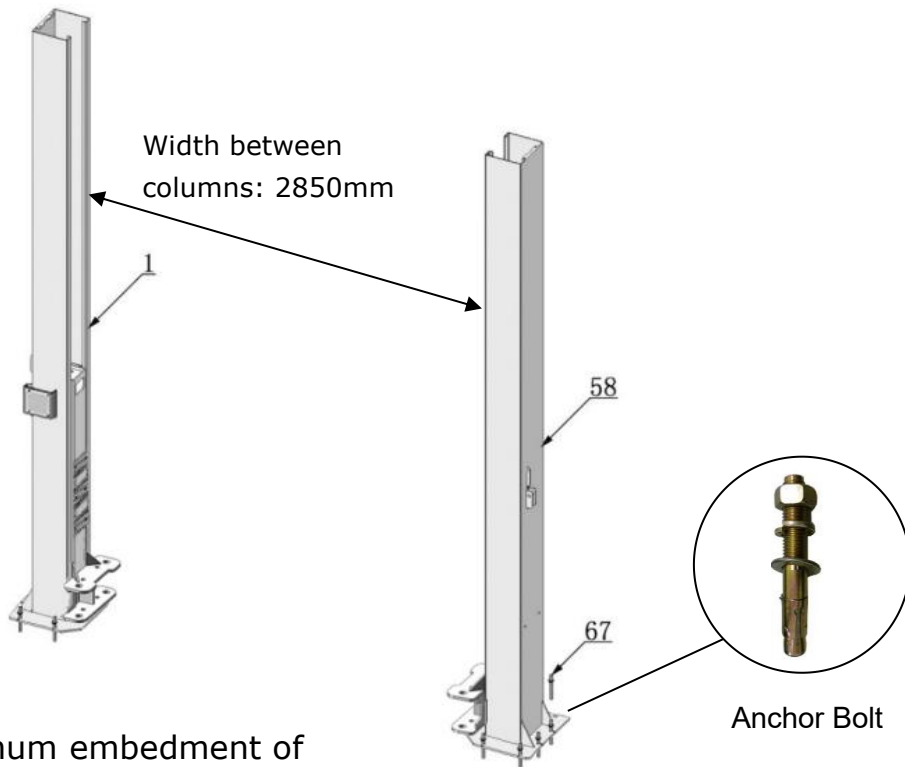


Fig. 19

F. Position columns

Place the columns on the installation layout of base plate. Install the anchor bolts. Do not tighten the anchor bolts (See Fig.20).



Note: Minimum embedment of anchors is 90mm.



Fig. 20

G. Mounting the top beam by lifting equipment, and attention to distinguish the direction when installing the top beam. (Fig.21)

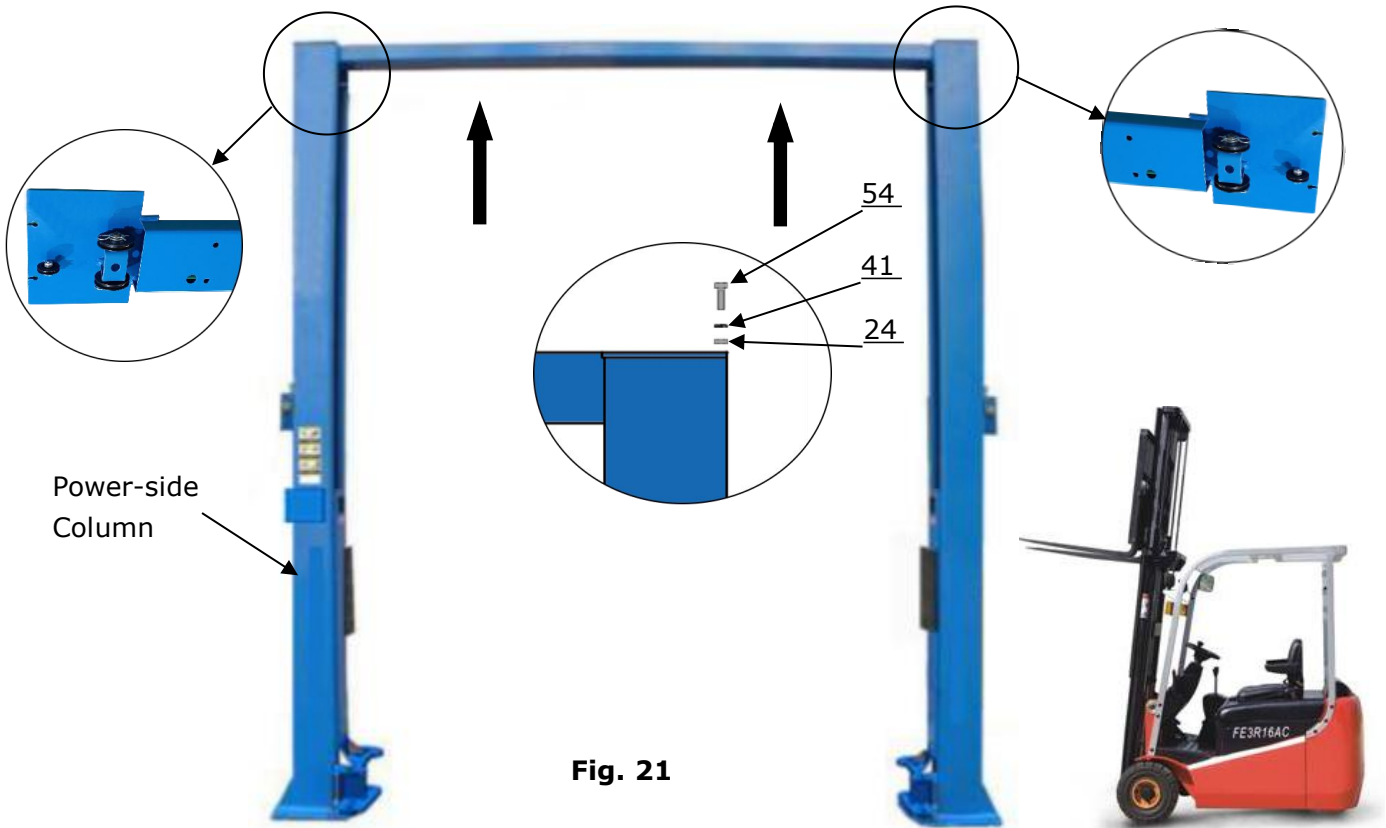


Fig. 21

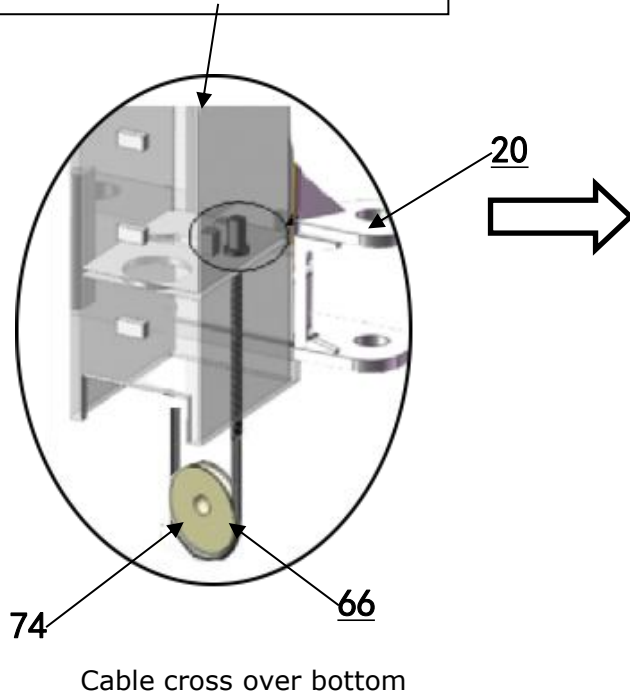
H. Check the vertical of the columns with level bar, and adjusting with the shims if the columns are not vertical. Tighten the anchor bolts (See Fig.22).



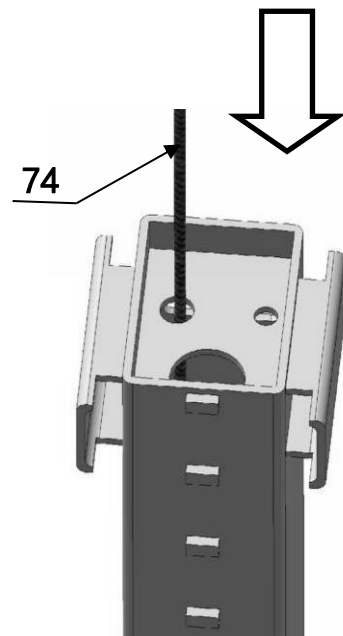
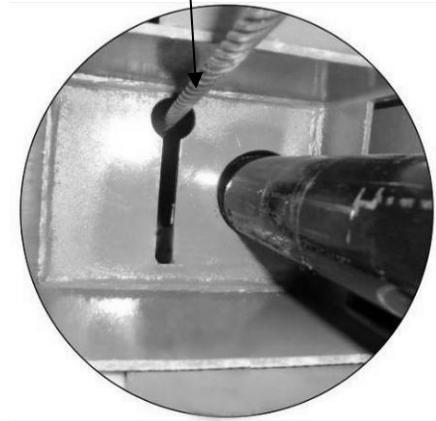
Fig. 22

I. Pull out the carriage, cross the cable.

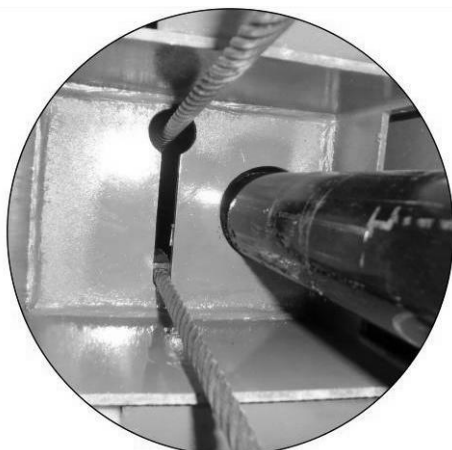
1. Pass one end of the cable through the bottom of the carriage and clamp it on the slot.



2. Pass the other end of the cable from the bottom of the other lifting carriage



View from the top of carriage



Finished installation

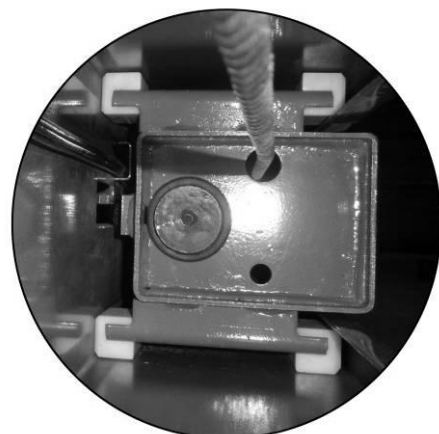


Fig. 23

J. Install cables (See Fig. 24).

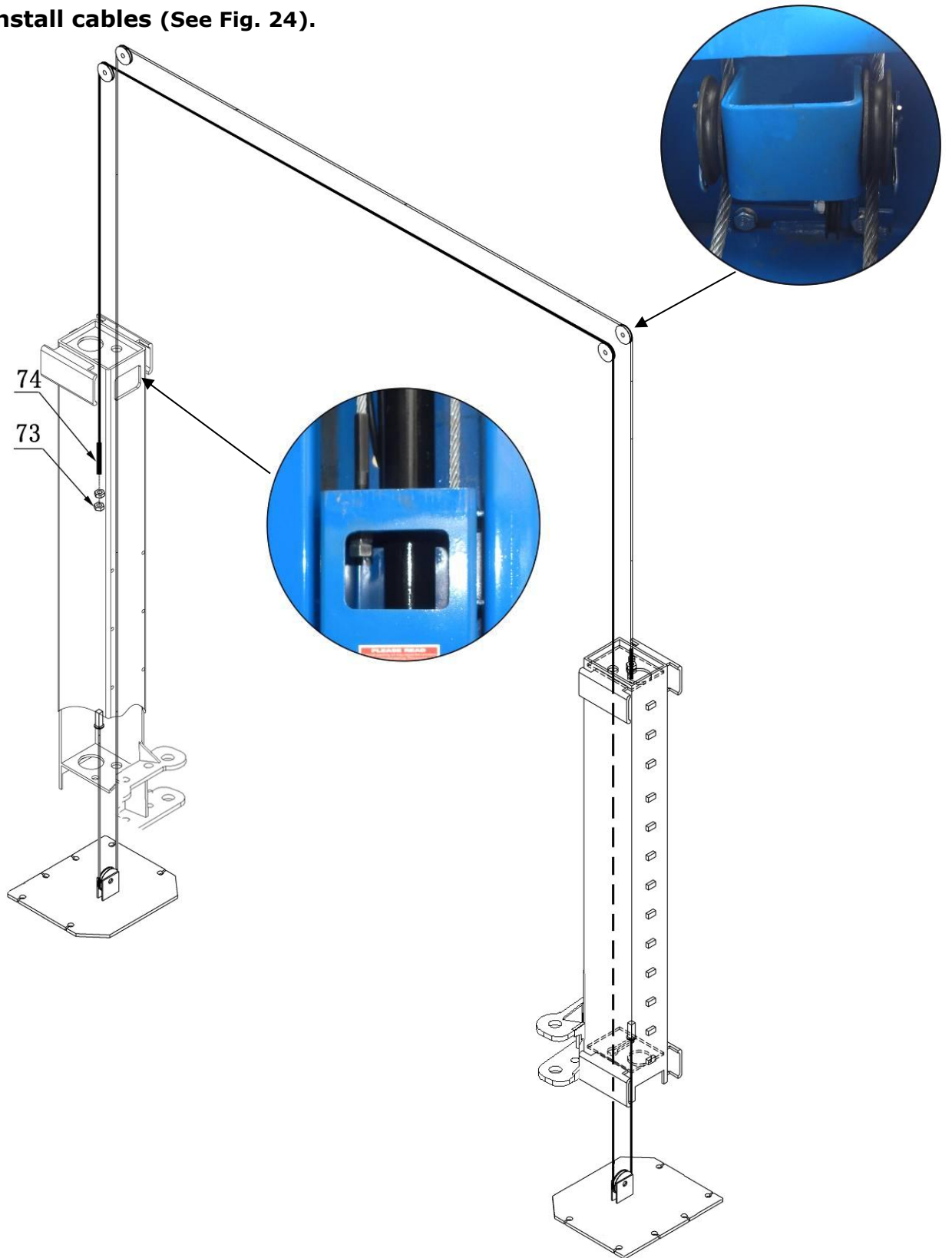


Fig. 24

K. Install Oil Hose, Tighten all oil hose fittings.

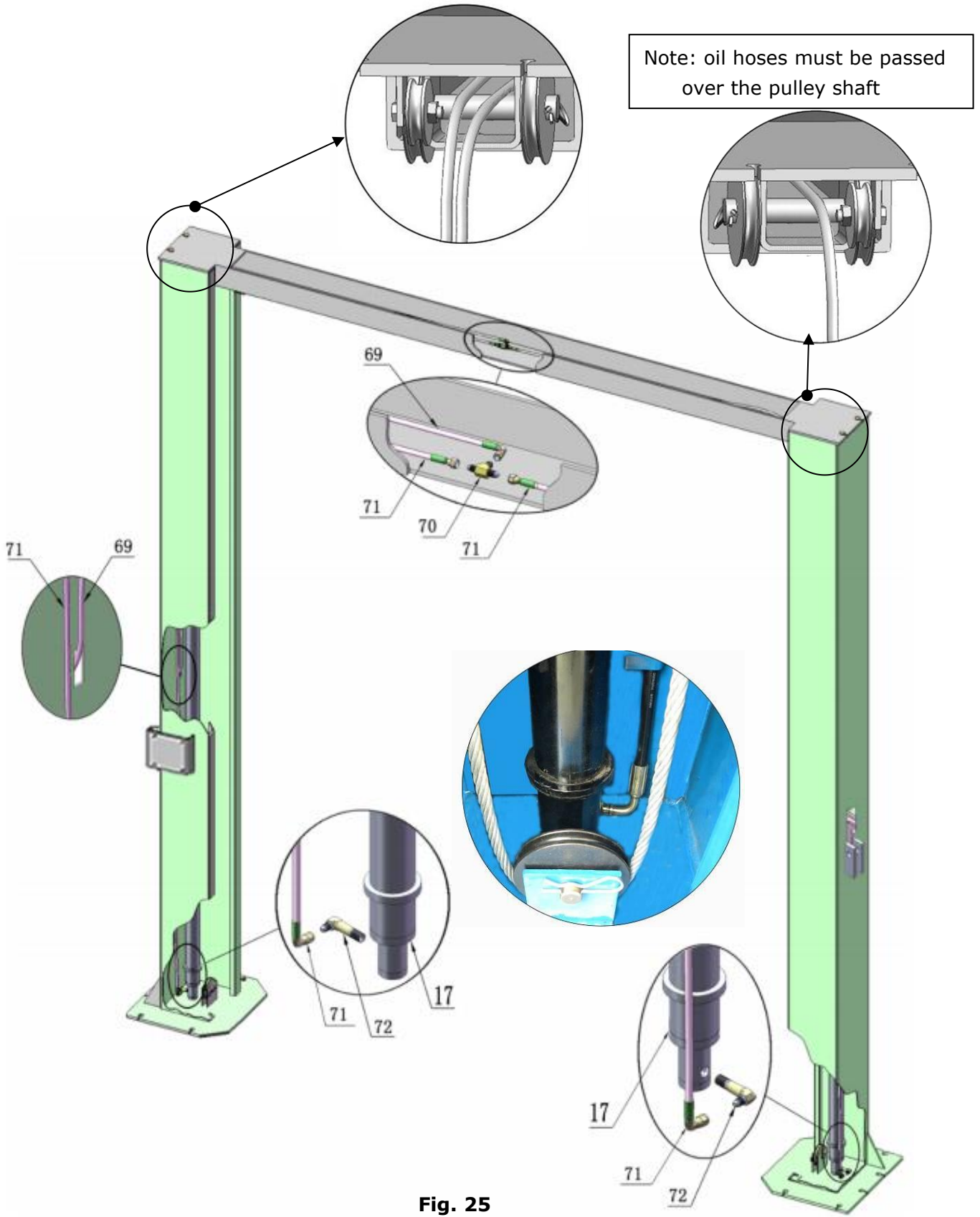


Fig. 25

L. Install power unit and oil hoses (See Fig. 26)

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

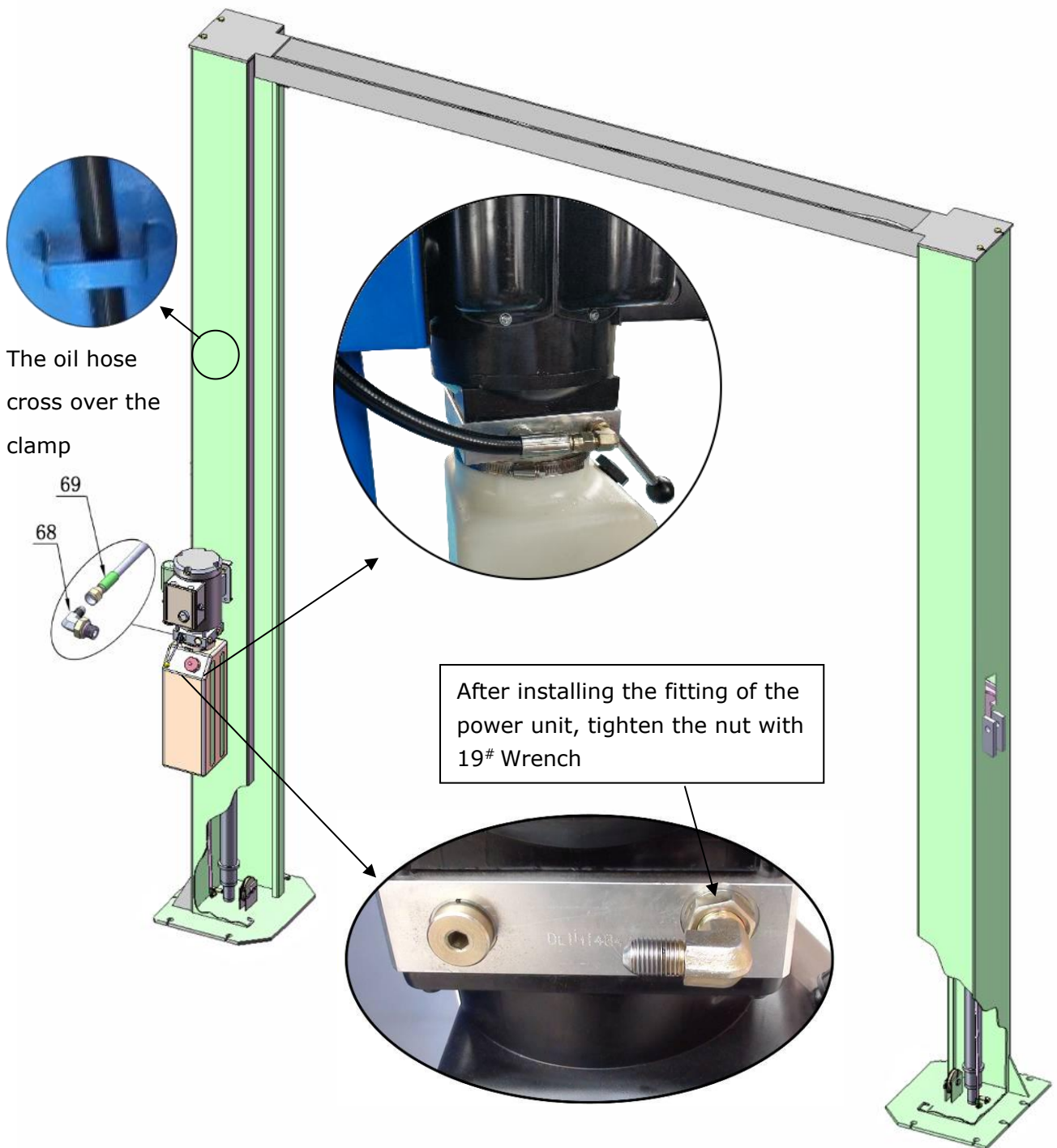


Fig. 26

M. Install safety cable (See Fig. 27).

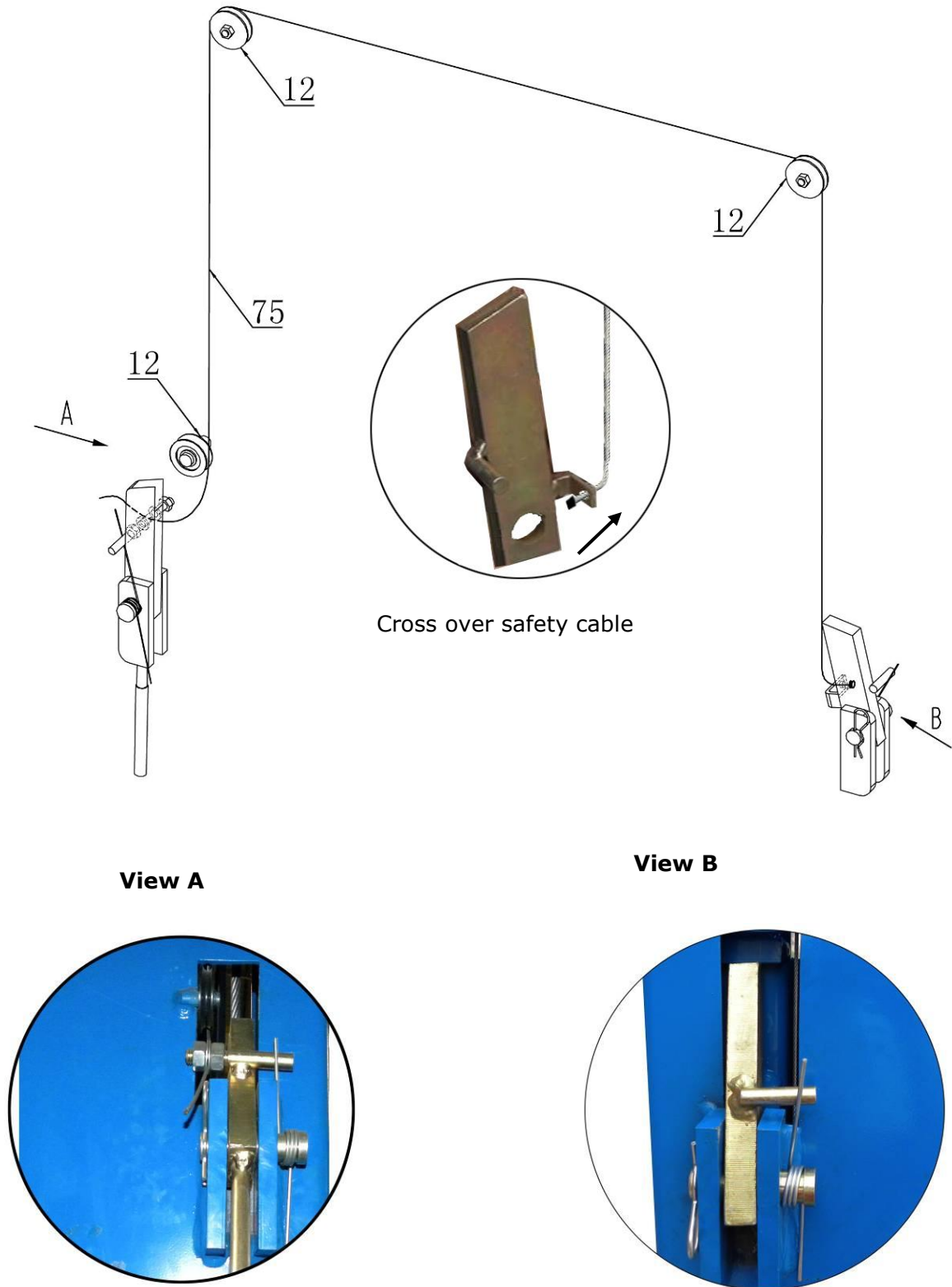
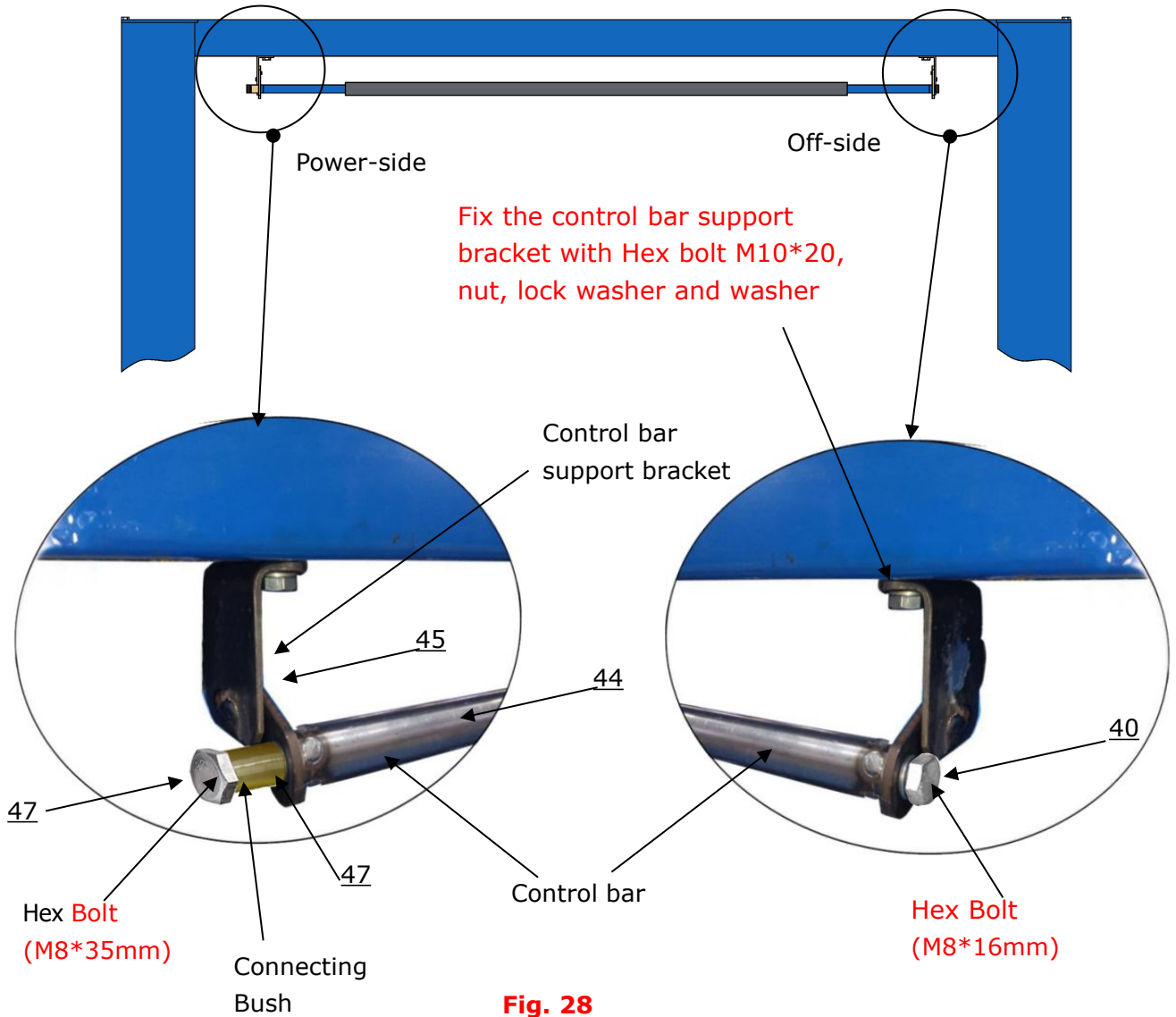


Fig. 27

M. Install control bar for limit switch (See Fig. 28)

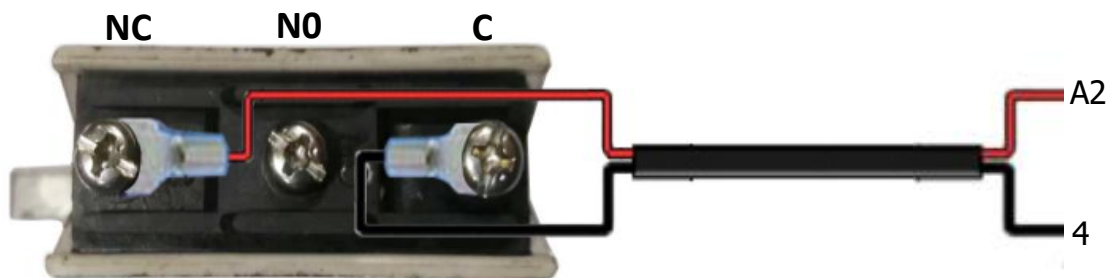


N. Installing the limit switch and wire.

1. Connect the wire:

Connect the red wire to terminal NC#, another side of the wire connect to the terminal A2 on AC contactor of power unit.

Connect the black wire to terminal C#, another side of the wire connect to the terminal 4 on control button of power unit.



2. Tighten 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.

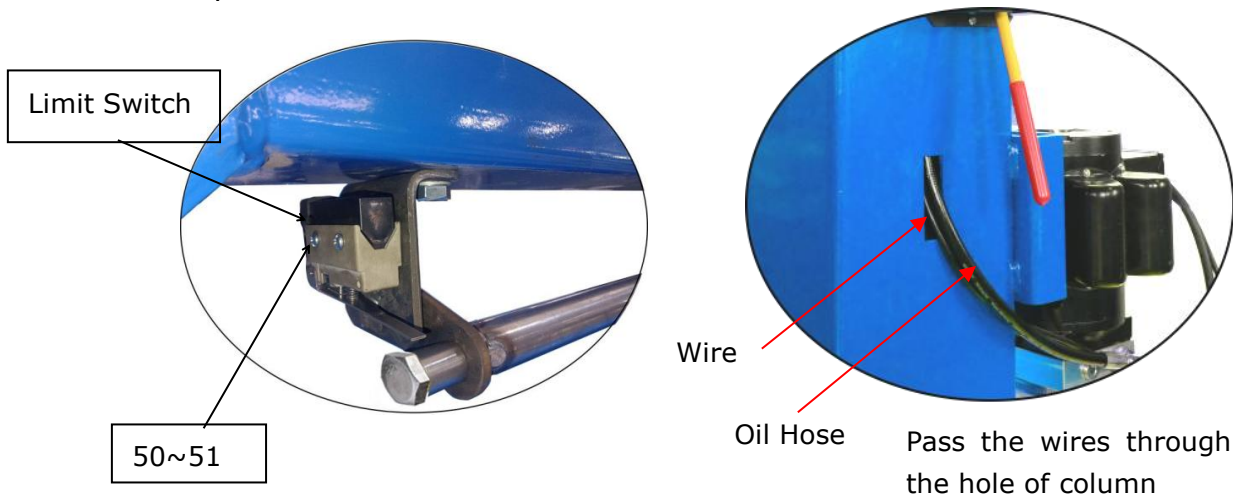


Fig.30

O. Tighten all the oil pipe joints and fill the hydraulic station with hydraulic oil (to ensure the service life of the hydraulic system and ensure the best operation of the equipment, please add No. 46 high-quality anti-wear hydraulic oil).

P. Connect the power with schematic circuit diagram according to the requirement on the motor plate. Note: 208C need to install limit switch, to ensure the safety of operator, the lift must be grounded, please pay attention to the Positive & Negative rotation of the motor

Install electrical system

Connect the power source on the data plate of power unit.

Note: 1. For safety of operators, the power wiring must contact the floor well.

2. Pay attention to the direction of rotations when using three phase motors.

Single phase motor (See Fig.31)

1. Connecting the two power supply lines (fire wire **L** and zero wire **N**) to terminals of AC contactor marked **L1, L3** respectively.
2. Connecting Limit switch: Remove the short wire connecting terminal 4# of control button and A2 of AC contactor firstly (See Fig. 32). Then connect wire C#(black wire) of limit switch with terminal 4# of control button and connecting wire NC#(red wire) with terminals A2 of AC contactor respectively. (See Fig. 33)

The interior wire of limit switch connecting NC# and C#, refer to Step N.

Single Phase Circuit diagram

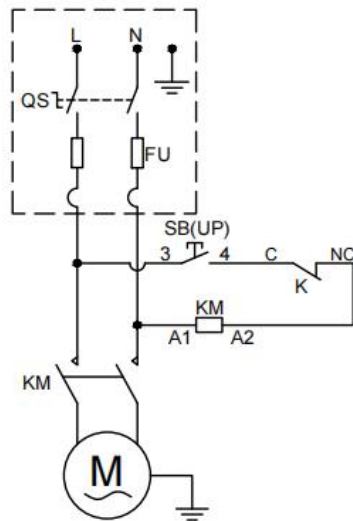
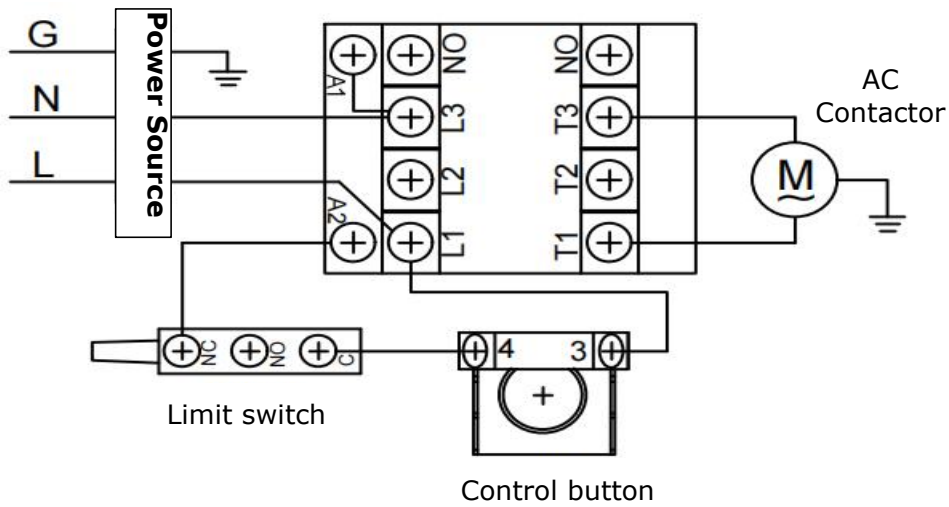


Fig. 31

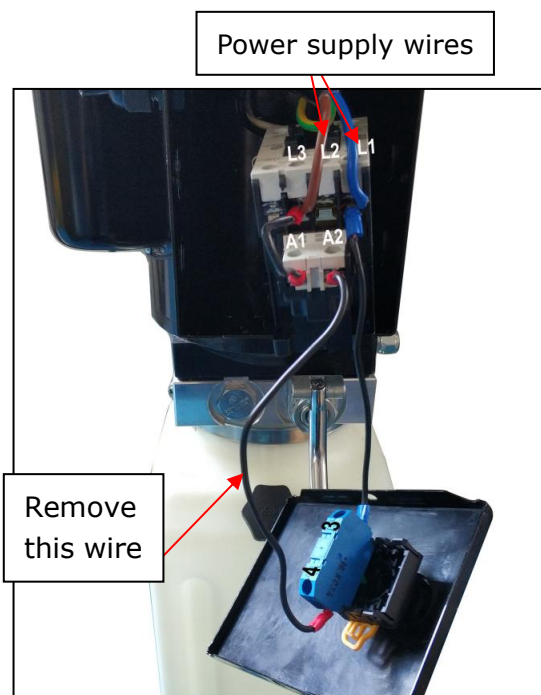


Fig. 32

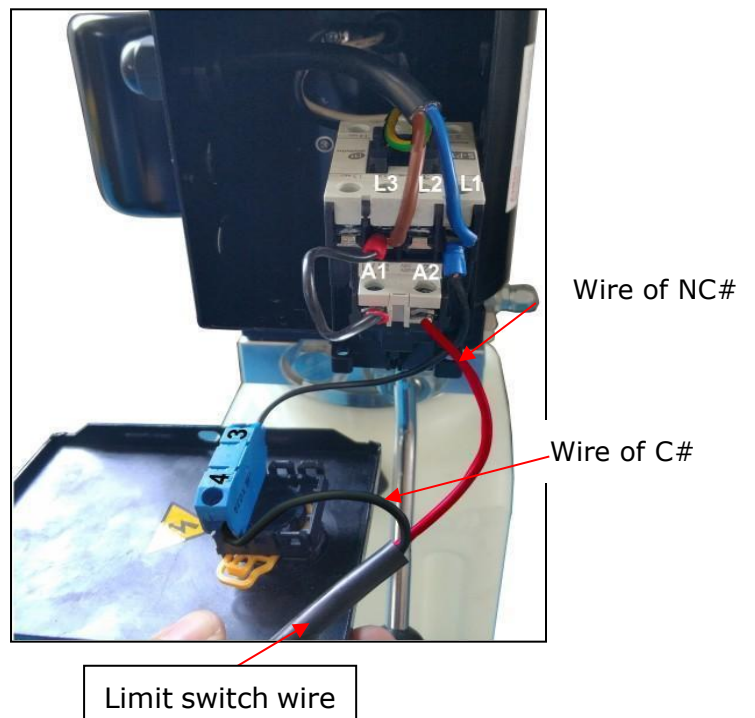


Fig.33

Three phase motor

1. Circuit diagram (See Fig. 34)

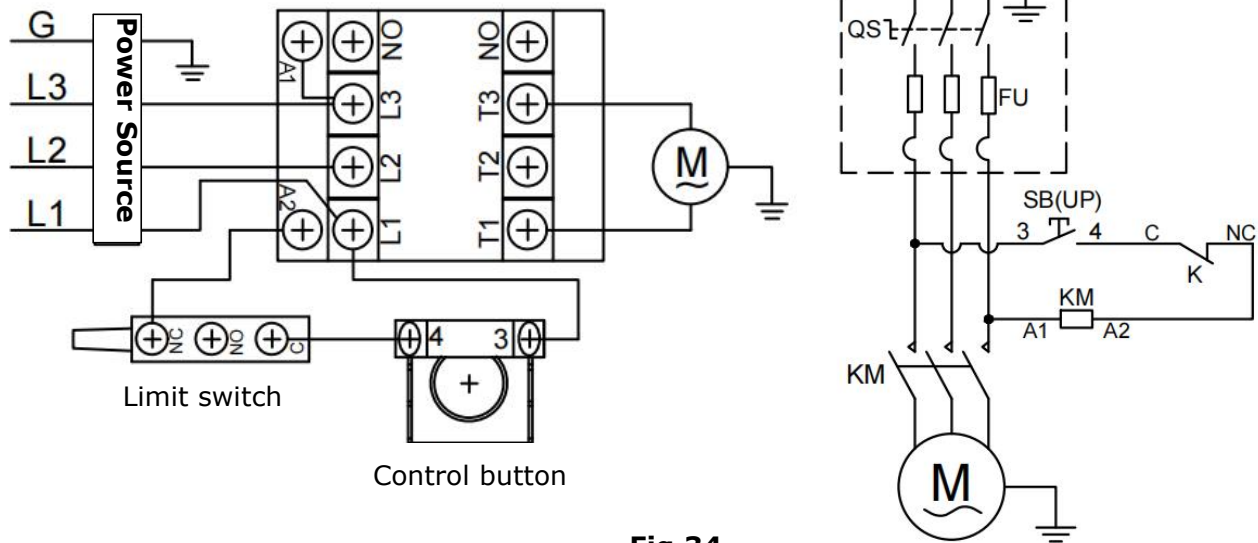


Fig.34

2. Connection step (See Fig.35)

- The power supply three fire wires (L1, L2, L3) are connected with terminals of AC contactor marked L1, L2, L3 respectively.
- Remove the jumper wire which connect with terminal 4# of switch button and terminal A2# of AC contactor.
- Wire of limit switch C#(Black wire) connect to terminal 4# of switch button. Wire NC#(Red wire) connect to terminal A2# of AC contactor.
- Terminals 3# of switch button connect with L1 terminals of AC contactor.

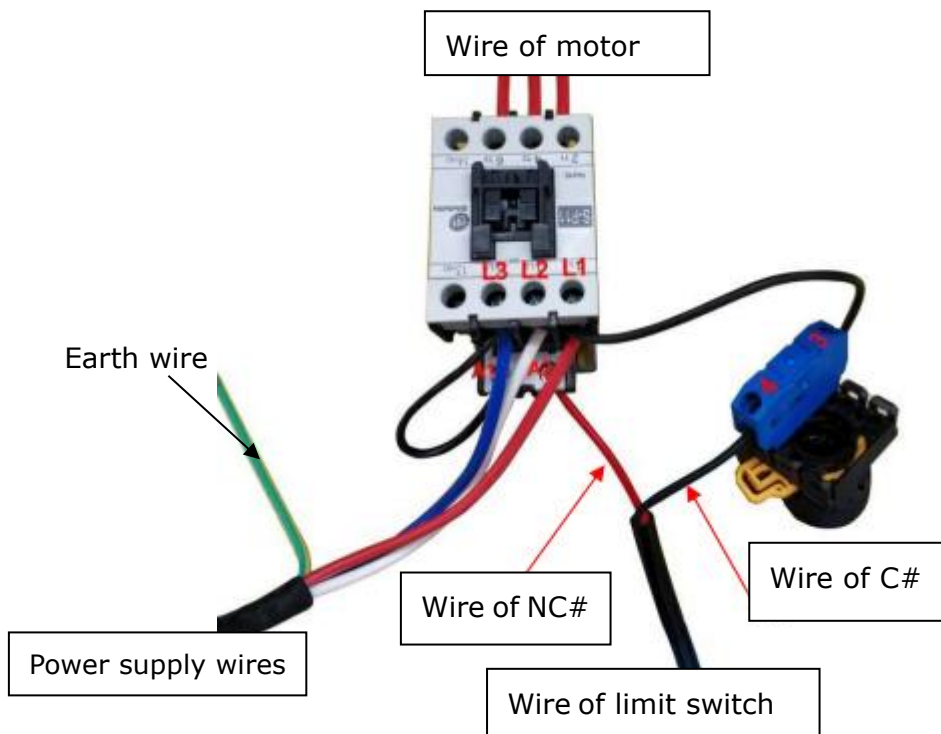


Fig. 35

Q. Install lifting arms and adjust the arm locks

1. Install the lifting arms (See Fig. 36).
2. Lowering the carriages to the lowest position, then use the 8# wrench to loosen the nut of arm lock (See Fig. 37).

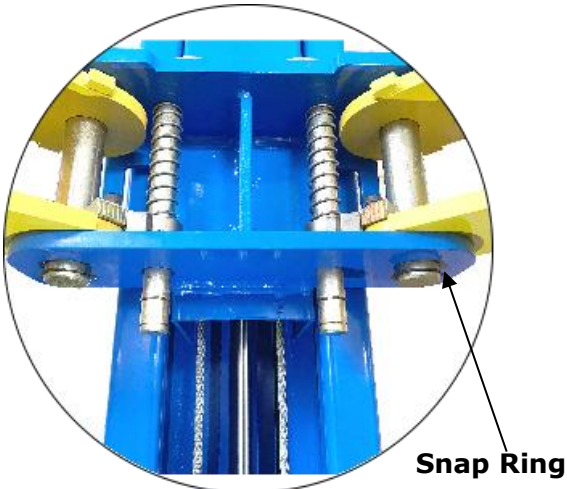


Fig. 36

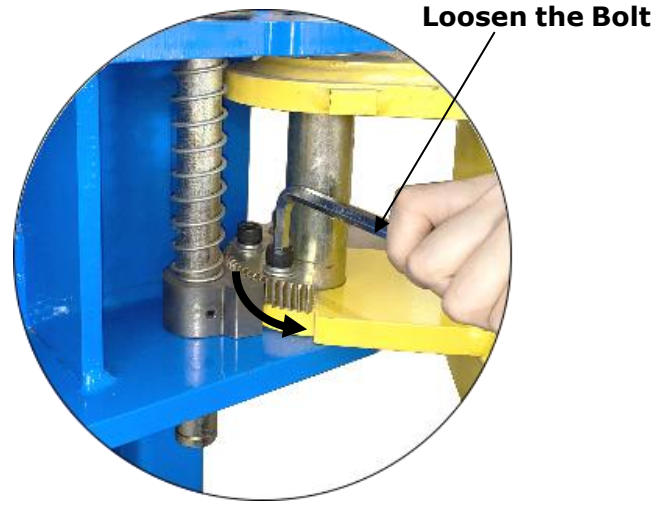


Fig. 37

3. Adjust the arm lock as direction of arrow (See Fig. 38)
4. Adjust the moon gear and arm lock to make it to be meshed, then tighten the nut of arm lock (See Fig. 39).

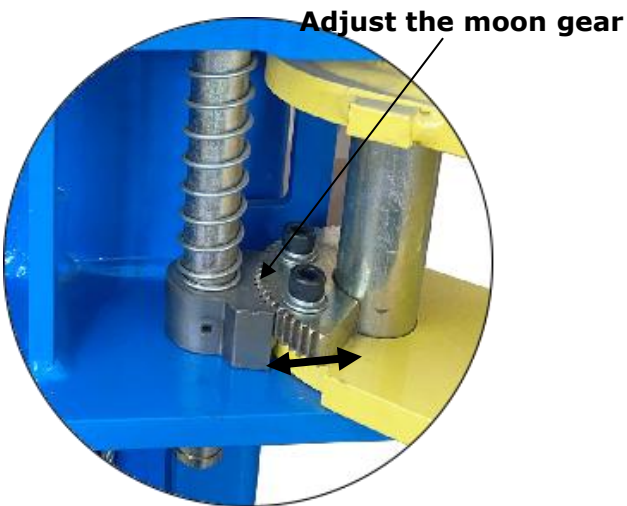


Fig. 38

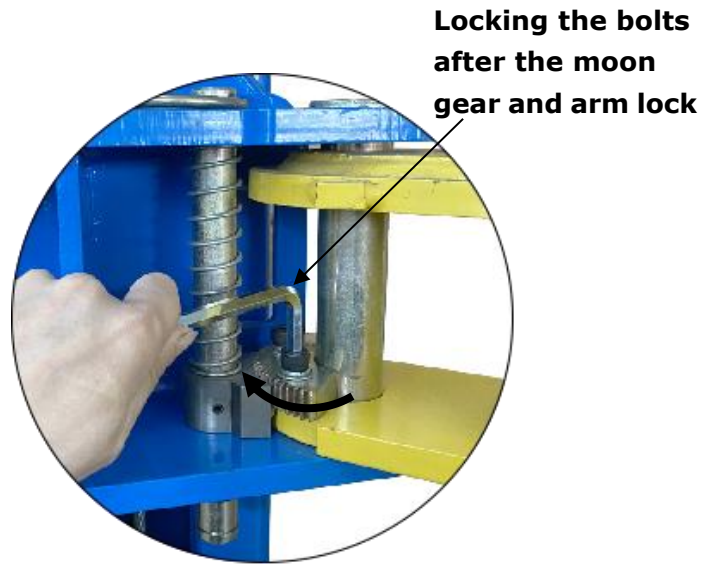


Fig. 39

IV. EXPLODED VIEW

Model 210C

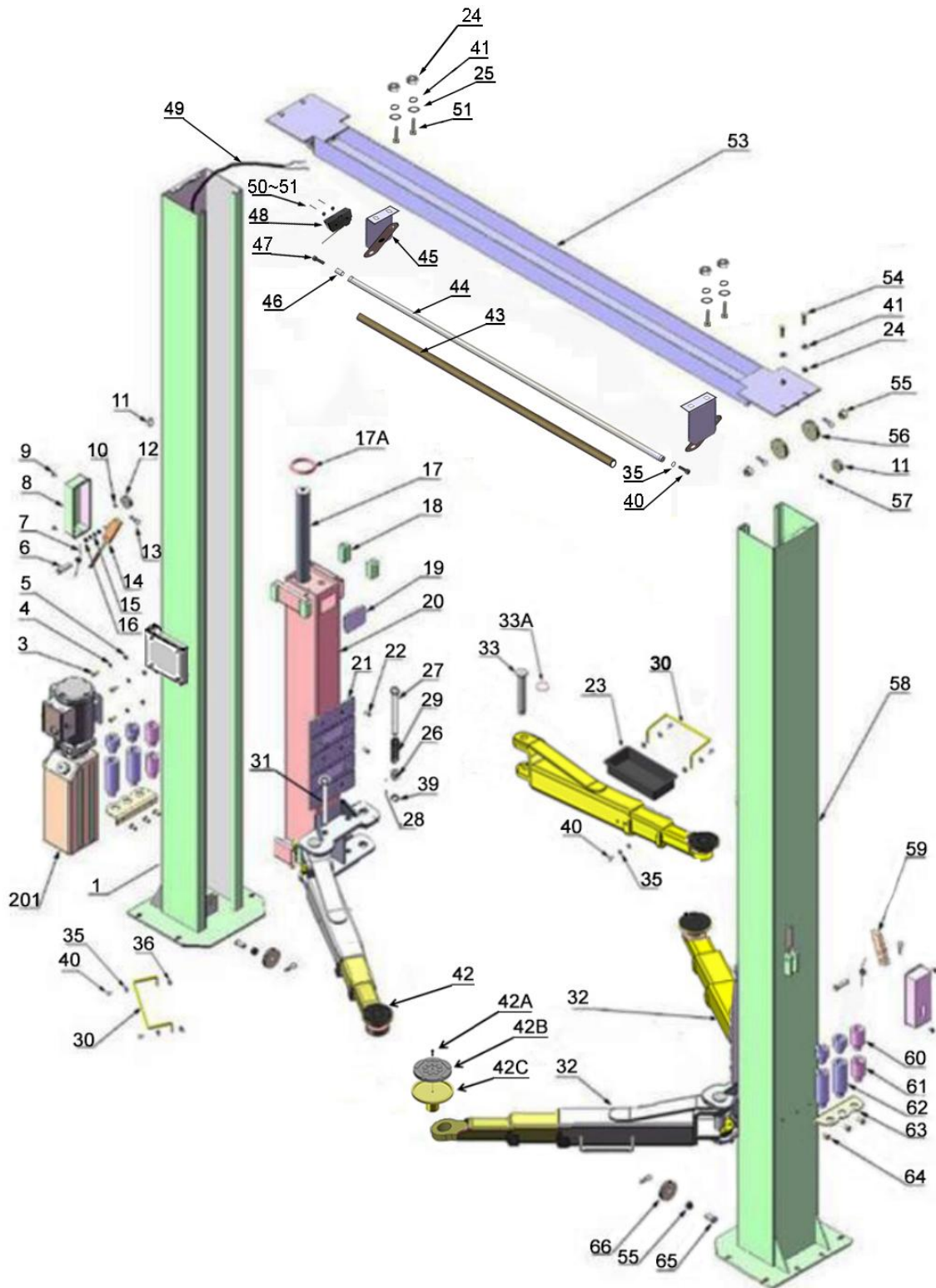


Fig. 40

Model 210SAC

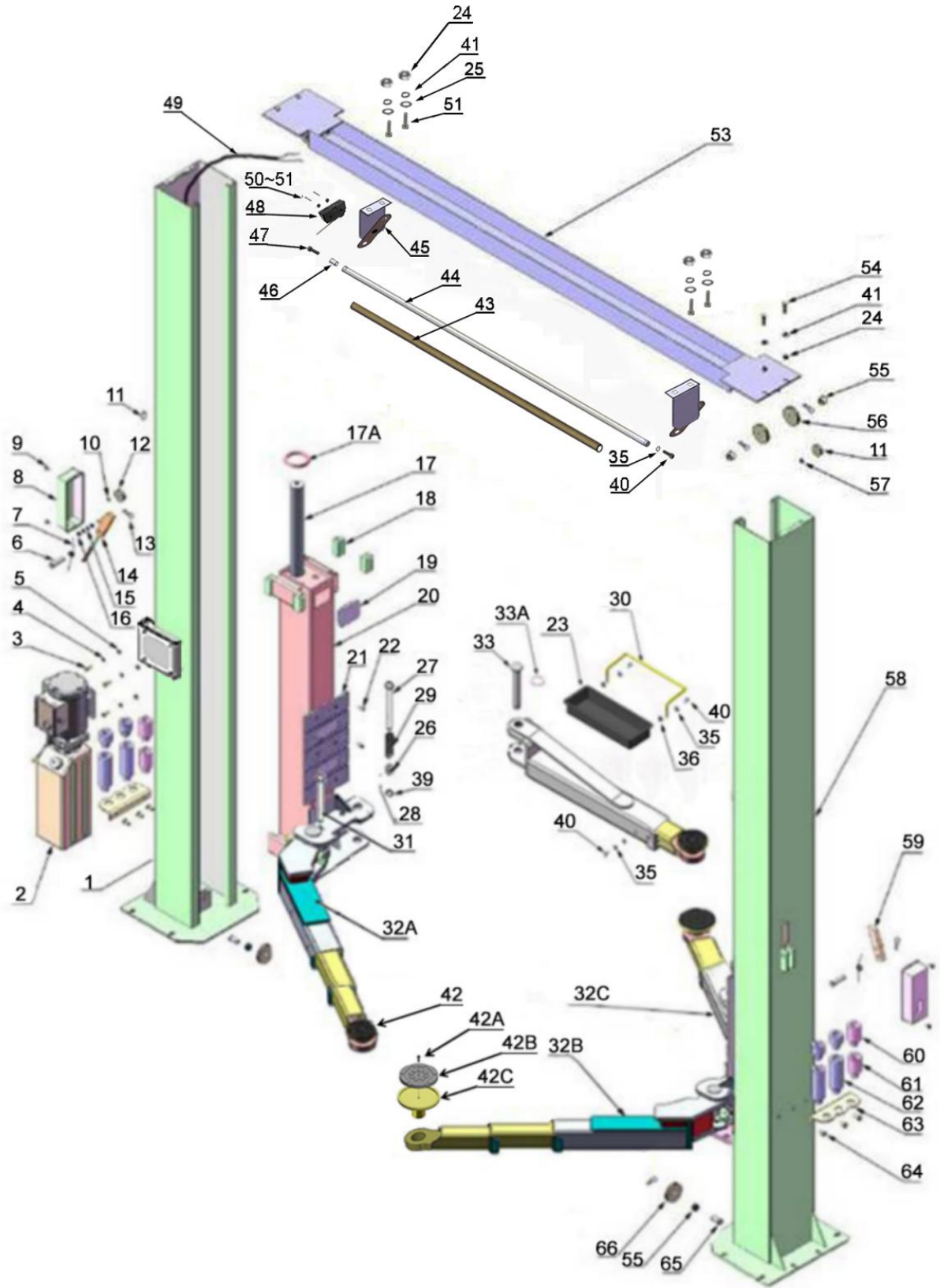


Fig.41

PARTS LIST FOR MODEL 210C

Item	Part#	Description	QTY.	
			210C	210SAC
1	11209206	Power side Column	1	1
2	81513001	Power Unit 220V/50Hz/1Phase	1/1	1/1
	81513002	Power Unit 380V/50Hz/3Phase		
3	10209003	Hex Bolt M8*25	4	4
4	10209004	Rubber Ring φ8*20*3	4	4
5	10209005	Self-locking Nut M8	4	4
6	1102011004A	Safety Pin	2	2
7	10209007	Safety Spring	2	2
8	10209008	Safety Cover	2	2
9	10209009	Cup Head Bolt M6*8	4	4
10	10209010	Snap Ring φ10	1	1
11	10620059	Protective ring φ12	1	1
12	10209049	Plastic small pulley	3	3
13	10209012	Hair Pin φ3.2	8	8
14	11209013	Power side Safety Lock	1	1
15	10206006	Washer φ12	2	2
16	10206023A	Hex Nut M12	2	2
17	11209014-02	Cylinder	2	2
17A	11209111	Protective ring for cylinder	2	2
18	10209015	Slider Block	16	16
19	10209016	Carriage Plastic Cover	2	2
20	11209208	Carriage	2	2
21	10209018	Protective Rubber	2	2
22	10209019	Screw M6*16	12	12
23	10206190	Tool tray	2	2
24	10209021	Hex Nut M10	8	8
25	10209022	Washer φ10	4	4
26	10217044-01	Arm lock	4	4
27	11217046A	Arm lock bar (Left)	2	2
28	10206036	Hair Pin φ6*40	4	4
29	10217045	Spring φ26*φ31*φ2.5	4	4
30	11206191	Toe guard bar	4	4
31	11217046	Arm lock bar (Right)	2	2
32	10203156	Front arm	4	0
32A	10279010	Right front arm	0	1
32B	10279009	Left front arm	0	1
32C	10279011	Rear arm	0	2
33	11217168	Arm Pin	4	4
33A	10520023	Snap Ring φ38	4	4
34	10201090	Shim 1mm	10	10
	10620065	Shim 2mm	10	10
35	10209034	Lock Washer φ8	13	9
36	10209033	Washer φ8	8	4

Item	Part#	Description	QTY.	
			210C	210SAC
37	10209501B	Part box	1	0
	10209502B		0	1
38	10209153	Pull tab for arm lock bar	4	4
39	10206032	Snap ring ϕ 25	4	4
40	10201002	Hex Bolt M8*16	9	5
41	10209039	Lock Washer ϕ 10	8	8
42	11217114A	Rubber Pad Assy.	4	4
42A	10420138	Socket bolt	4	4
42B	10209134	Rubber Pad	4	4
42C	11680030B	Rubber Pad Support Frame	4	4
43	10206025A	Foam Cushion	1	1
44	1102072001-01	Control Bar	1	1
45	1103072003A-01	Control Bar Support Bracket	2	2
46	110207007	Connecting bush ϕ 14*20	1	1
47	10201122	Hex Bolt M8*35	1	1
48	1002022001	Limit Switch CZ-7120 10A	1	1
49	10209250-01	Wire 2*1 ² *3505mm	1	1
50	10420164	Cup Head Bolt M4*30	2	2
51	10620095	Hex nut M4	2	2
52	10206017	Hex Bolt M10*20	4	4
53	11211011-01	Top Beam	1	1
54	10209046	Hex Bolt	4	4
55	1002011001	Steel Bush	6	6
56	1102011001	Small Pulley ϕ 80	4	4
57	10209056	Self-locking Nut M10	6	6
58	11209207	Offside Column	1	1
59	11211013	Offside Safety Lock	1	1
60	11209051B	Stackable Adapter (1.5")	4	4
61	11209052B	Stackable Adapter (2.5")	4	4
62	11209053B	Stackable Adapter (5")	4	4
63	11209054A	Stackable Adapter Bracket	2	2
64	10680003	Hex Bolt	4	4
65	1102011005A	Pin for Pulley	2	2
66	1102012001	Big Pulley ϕ 100	2	2
67	10209059	Anchor Bolt 3/4*5-1/2	12	12
68	10209060	90° Fitting for power unit	1	1
69	10211014-01	Oil hose 1/4"×4280mm	1	1
70	10211016	T- fitting	1	1
71	10211015A-02	Oil hose 1/4"×5343mm	2	1
72	10211017	Extend 90° fitting for Cylinder	2	2
73	10209066	Hex Nut	4	4
74	10211018-01	Cable ϕ 9.52×9402mm	2	2
75	10211019	Safety Cable	1	1

1. Lifting arm assy. (10203156) explosive view

MODEL:210C

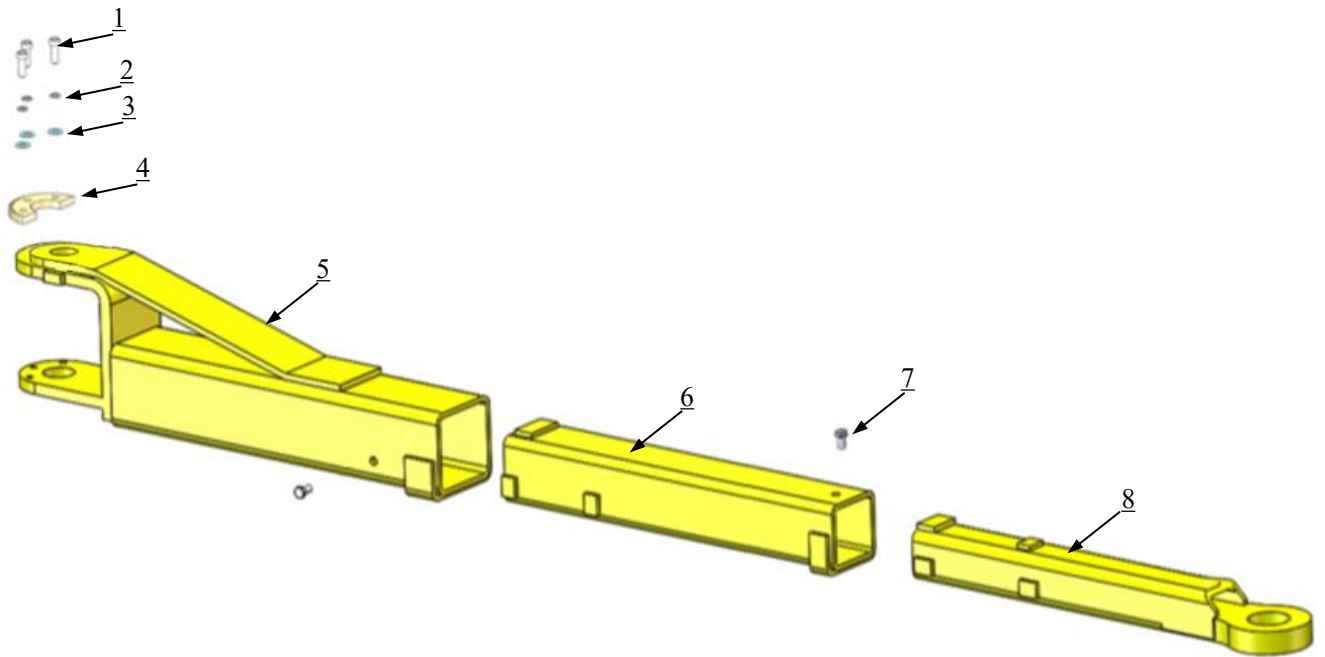


Fig.42

Item	Part#	Description	QTY.
1	10206048	Socket bolt M10*30	12
2	10209039	Lock Washer φ10	12
3	10209022	Washer φ10	12
4	11206049	Moon gear	4
5	11203146	Outer arm	4
6	11203147	Middle arm	4
7	10201149	Cup head bolt M8*12	8
8	11203148	Inner arm	4

2. Rear arm assy. (10279011) explosive view

MODEL:210SAC

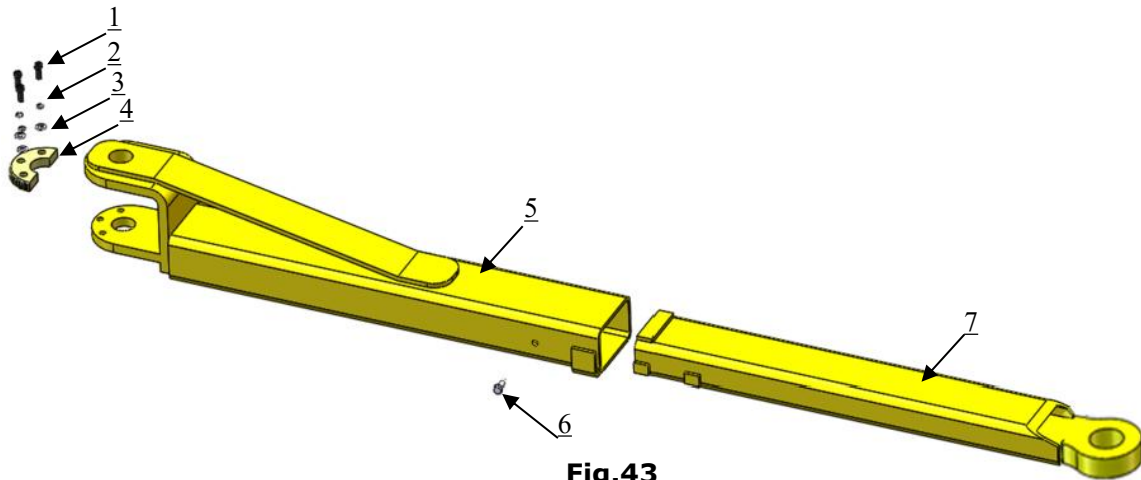


Fig.43

Item	Part#	Description	QTY.
1	10206048	Socket bolt M10*30	6
2	10209039	Lock Washer ϕ 10	6
3	10209022	Washer ϕ 10	6
4	11206049	Moon gear	2
5	11206192	Outer arm - Rear	2
6	10201149	Cup head bolt M8*12	2
7	11206193	Inner arm - Rear	2

3. Front-left arm assy. (10279009) explosive view

MODEL:210SAC

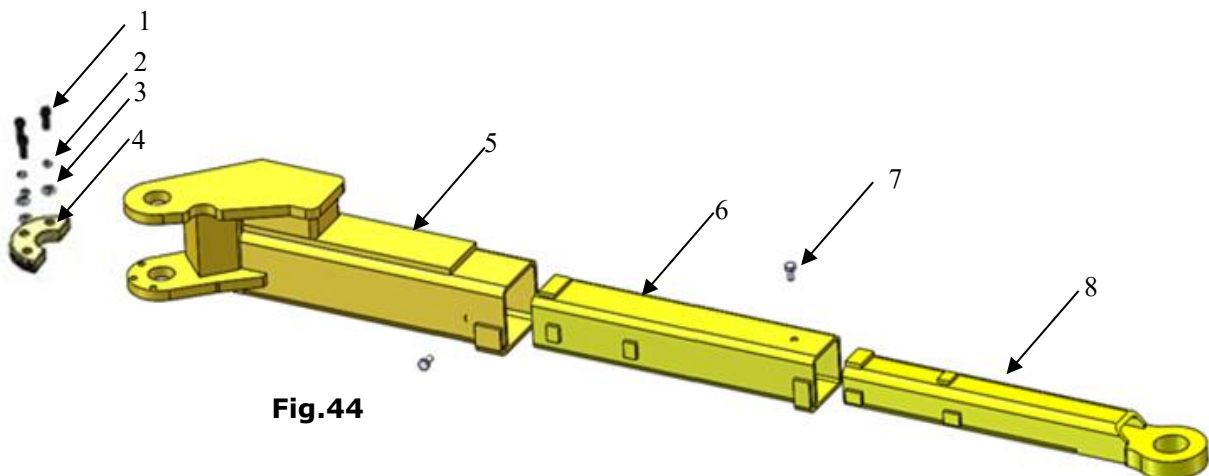


Fig.44

Item	Part#	Description	QTY.
1	10206048	Socket bolt M10*30	3
2	10209039	Lock washer φ10	3
3	10209022	Washer φ10	3
4	11206049	Moon gear	1
5	11279005	Outer arm - Front left	1
6	11206189	Middle arm - Front	1
7	10201149	Cup head bolt M8*12	2
8	11201049A	Inner arm - Front	1

4. Front-right arm assy. (10279010) explosive view

Model: 210SAC

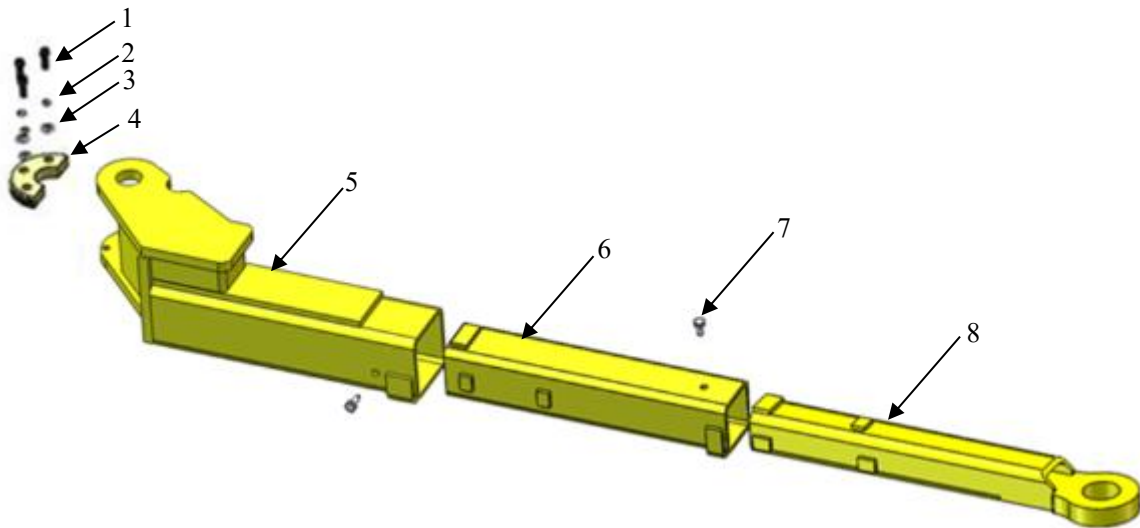


Fig.45

Item	Part#	Description	QTY.
1	10206048	Socket bolt M10*30	3
2	10209039	Lock Washer φ10	3
3	10209022	Washer φ10	3
4	11206049	Moon gear	1
5	11279006	Outer arm-Front right	1
6	11206189	Middle arm - Front	1
7	10201149	Cup head bolt M8*12	2
8	11201049A	Inner arm - Front	1

5. Cylinders (10209014-02) explosive view

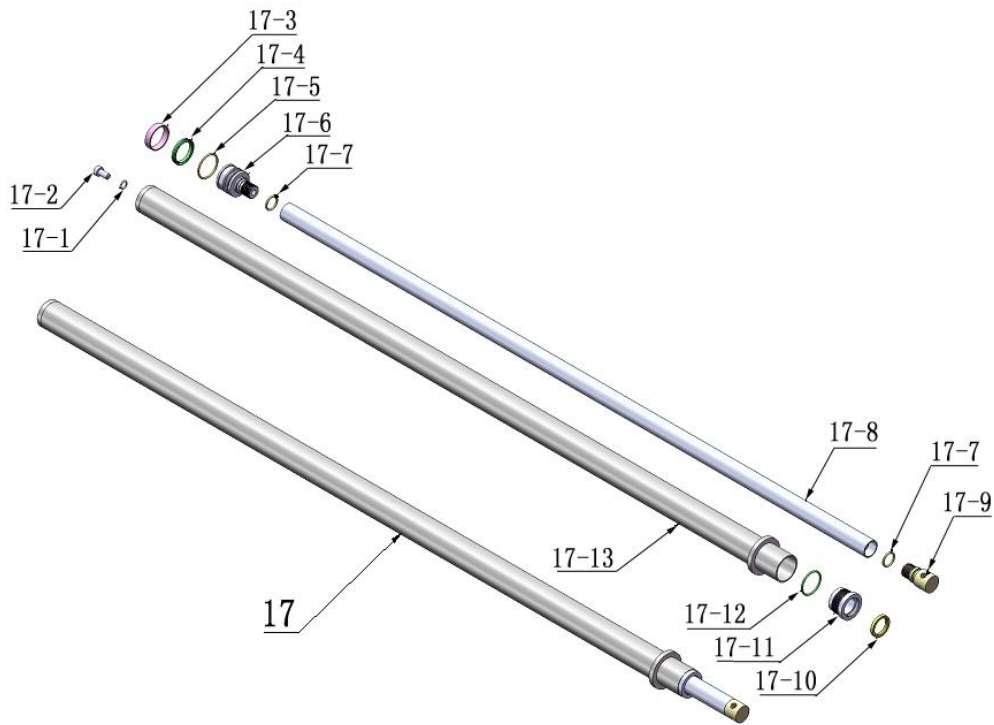


Fig. 46

Part list for cylinder

Item	Part#	Description	QTY.
17-1	10209069	O-ring	2
17-2	10209070	Bleeding Plug	2
17-3	10209071	Support Ring	2
17-4	10209072	Y-ring OSI	2
17-5	10209073	O-ring	2
17-6	11209074	Piston	2
17-7	10209075	O-Ring	4
17-8	11217076-01	Piston rod	2
17-9	11209077	Piston Rod Fitting	2
17-10	10209078	Dust wing	2
17-11	11209079	cover	2
17-12	10209080	O ring	2
17-13	11209081-01	Bore Weldment	2

6. POWER UNIT (81513001/81513002) explosive view

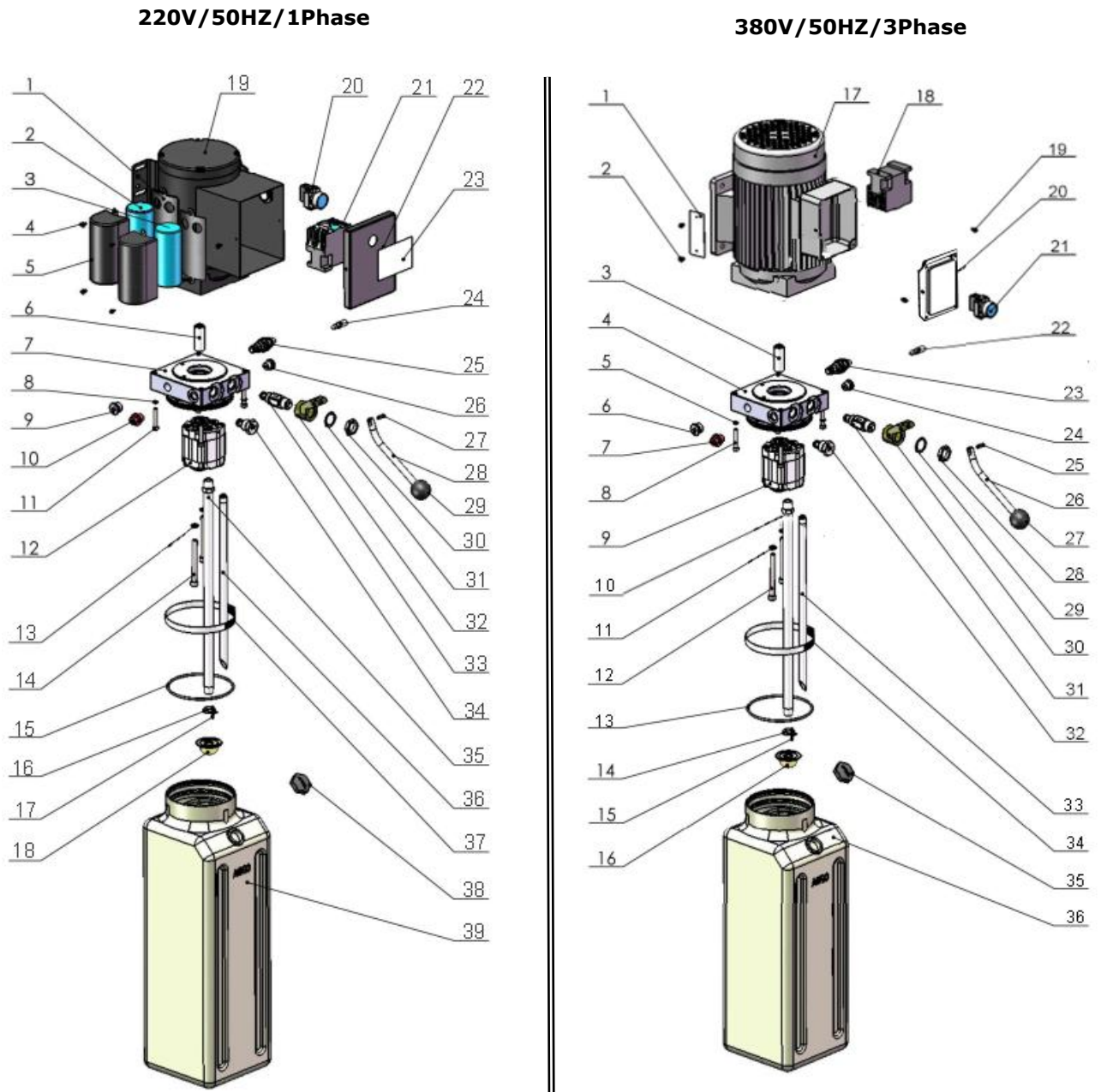


Fig. 47

PARTS LIST FOR MANUAL POWER UNIT

Parts for Manual Power Unit, 220V/50Hz/1 phase				
Item	Part#	Description	Qty.	Note
1	81400180	Rubber pad	2	
2	81400250	Starting capacitor	1	
3	81400200	Running capacitor	1	
4	10420148	Screw with washer	6	
5	81400066	Capacitor cover	2	
6	81400363	Motor connector	1	
7	80101013	Manifold block	1	
8	10209149	Washer	4	
9	81400276	Plug	1	
10	81400259	Red plug	1	
11	85090142	Hex bolt	4	
12	81400280	Gear pump	1	
13	10209034	washer	2	
14	81400295	Hex nut	2	
15	81400365	O-ring	1	
16	10209152	Tape	1	
17	85090167	Magnet	1	
18	81400290	Filter	1	
19	81400413	Motor	1	
20	10420070	Button switch	1	
21	41030055	AC contractor	1	
22	81400287	Motor box cover	1	
23	71111170	AMGO label	1	
24	81400560	Throttle valve	1	
25	81400266	Relief valve	1	
26	81400284	Plug	1	
27	10720118	Elastic pin	1	
28	81400451	Release handle	1	
29	10209020	Plastic ball	1	
30	81400421	Release valve nut	1	
31	81400422	Release handle	1	
32	81400449	valve seat(short)	1	
33	81400567	Release valve	1	
34	81400566	Check washer	1	
35	81400288	Oil suction hose	1	
36	81400289	Oil return hose	1	
37	81400364	Hose clamp	1	
38	81400263	Oil tank cap	1	
39	81400275	Oil tank	1	

Parts for Manual Power Unit 380V/50Hz/3 phase				
1	71150055	AMGO Name plate	1	
2	81400300	Cup Head Bolt	2	
3	81400363	Motor Connecting Shaft	1	
4	81400362	Manifold block	1	
5	10209149	Washer	4	
6	81400276	Iron plug	1	
7	81400259	Red rubber plug	1	
8	85090142	Hex bolt	4	
9	81400292	Gear pump	1	
10	81400288	Oli pipe	1	
11	10209034	Washer	2	
12	81400295	Socket bolt	2	
13	81400365	O ring	1	
14	10209152	Ties	1	
5	85090167	Magnet	1	
16	81400290	Filter	1	
17	81400439	Motor	1	
18	81400348	AC connector	1	
19	10420148	Cup head bolt	2	
20	80101022	Cover of Motor Terminal Box	1	
21	10420070	Switch	1	
22	81400560	Throttle valve	1	
23	81400266	Relief valve	1	
24	81400284	Plug	1	
25	81400452	Elastic pin	1	
26	81400451	Release handle	1	
27	10209020	Plastic ball	1	
28	81400421	Release valve nut	1	
29	81400422	Self-locking shim	1	
30	81400449	Valve seat(short)	1	
31	81400567	Release valve	1	
32	81400566	Check valve	1	
33	81400289	Oil return pipe	1	
34	81400364	Pipe ring	1	
35	81400263	Oil tank cap	1	
36	81400275	Oil tank	1	

Illustration of hydraulic valve for hydraulic power unit

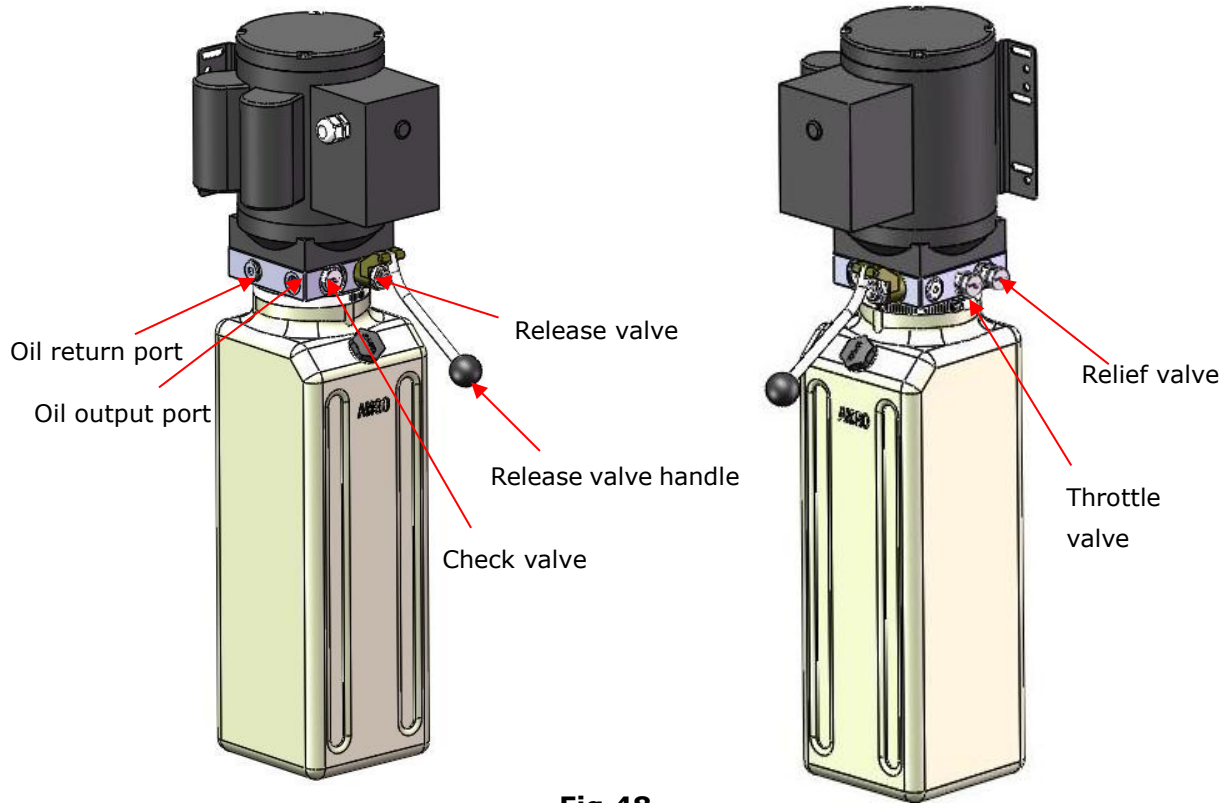


Fig.48

V. TEST RUN

1. Adjustment of synchronous cable (See Fig. 49)

Use wrench to hold the cable fitting, meanwhile using ratchet 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. 49

2. Adjust safety cable

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.

3. Bleeding air from oil cylinder

This hydraulic system is designed with a bleeding plug, located at the top of the cylinder, Raise the carriages to about 1 meter height and loose the bleeding plug, the air would be discharged automatically, then tighten the plug after bleeding air, the lift would work stably and smoothly, otherwise, repeat bleeding air. (See Fig. 50).

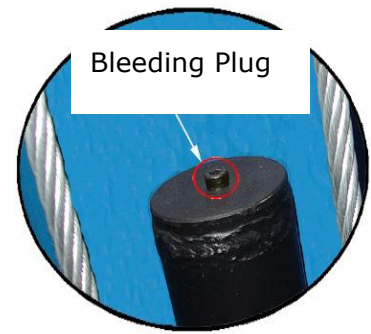
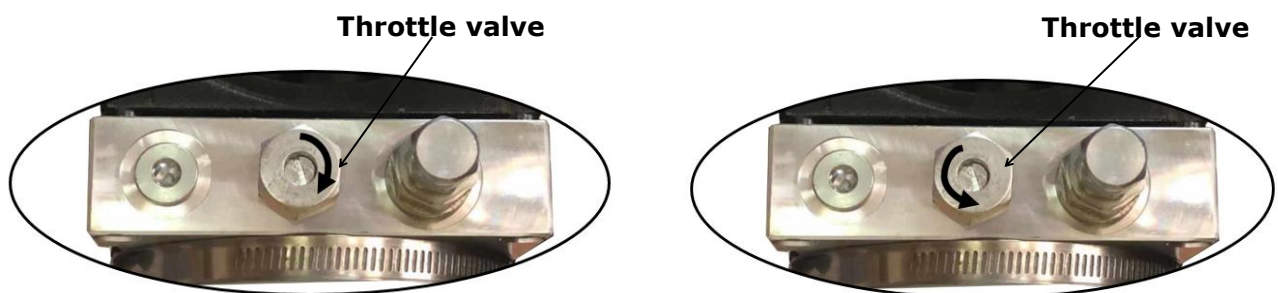


Fig.50

4. 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. 51

5. Test with load

After finishing the above adjustment, test the lift with load. Raise the lift in low position for several times firstly, make sure the lift can be raised and lowered synchronously, and the safety device can be locked and released synchronously. And then raise the lift to the top position completely. If there is anything improper, repeat the above adjustment.

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

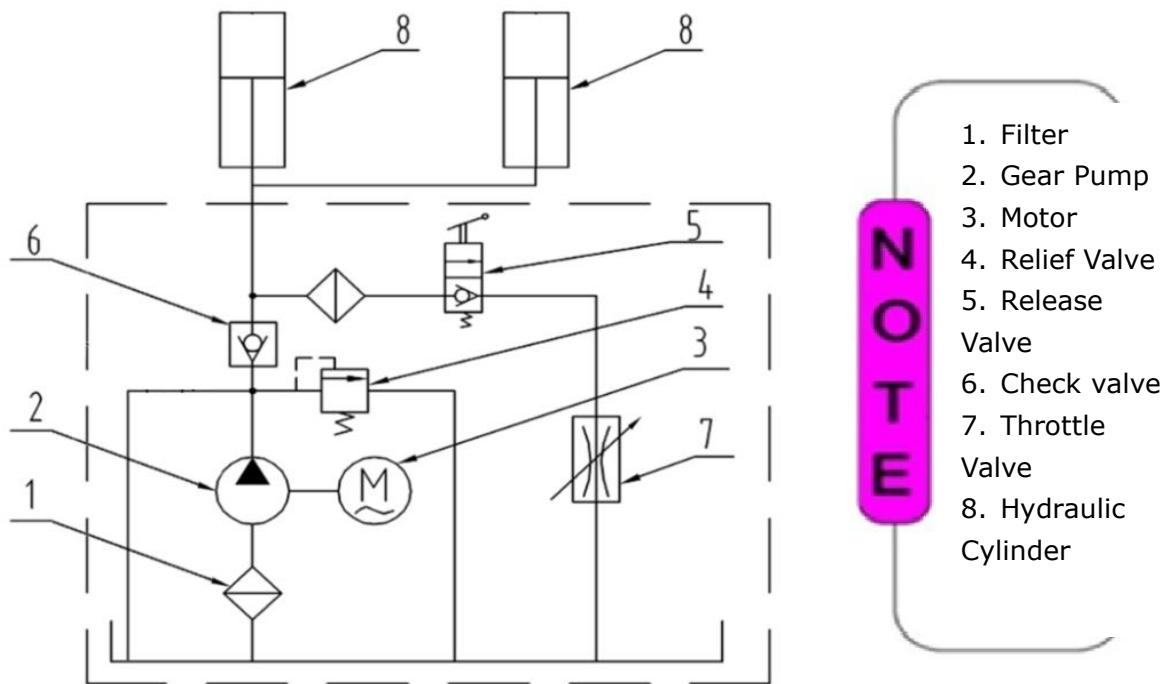


Fig. 52 Hydraulic System

- NOTE**
1. Filter
 2. Gear Pump
 3. Motor
 4. Relief Valve
 5. Release Valve
 6. Check valve
 7. Throttle Valve
 8. Hydraulic Cylinder

VI. 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 at the same time contact the vehicle's lifting point where manufacturers recommended

7. Push button **UP** until the lift pads contact underside of vehicle totally. 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 lowering handle to lower lift onto the nearest safety. The vehicle is ready to repair.

To lower vehicle

1. Be sure clear of around and under the lift, only leaving operator in lift area;
2. Push button **UP** to raise the vehicle slightly, and then release the safety device, lower vehicle by pushing lowering handle.
3. Open the arms and position them to the shortest length;
4. Drive away the vehicle.

Note: In order to extend the service life of the cylinder and seals, raise the machine to top at least once a day

VII. 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 the vertical of columns.
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.

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.

VIII. TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	<ol style="list-style-type: none"> 1. Button does not work 2. Wiring connections are not in good condition 3. Motor burned out 4. Height Limit Switch is damaged 5. AC Contactor burned out 	<ol style="list-style-type: none"> 1. Replace button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace the Limit Switch 5. 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. Replace Pump 5. Check load
Lift cannot lower	<ol style="list-style-type: none"> 1. Safety device are locking 2. Release Valve in damage 3. Safety cable broken 4. Oil system is jammed 	<ol style="list-style-type: none"> 1. Release the safeties 2. Repair or replace 3. Replace 4. Clean the oil system

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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