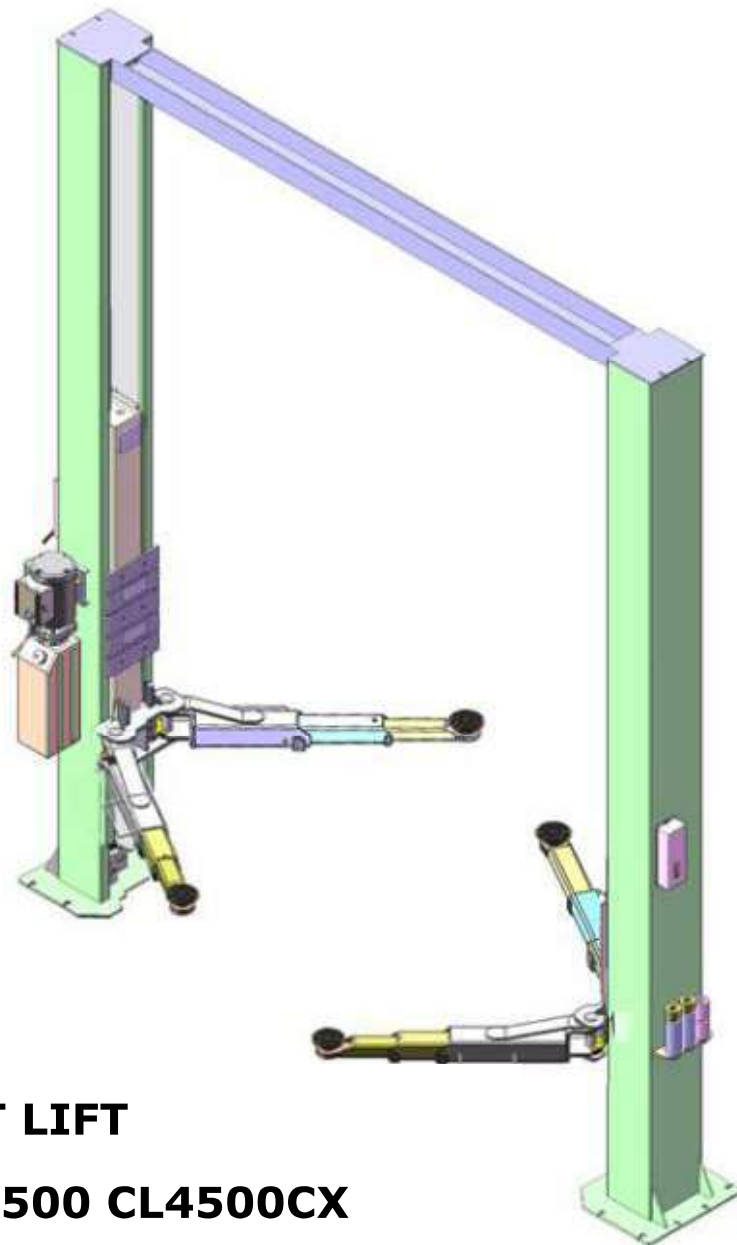


# CLASSICLIFT

## Installation And Service Manual



**TWO-POST LIFT**

**Model: CL4500 CL4500CX**

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# I. PRODUCT FEATURES AND SPECIFICATIONS

## CLEARFLOOR DIRECT-DRIVED MODEL FEATURES

### MODEL CL4500 ,CL4500CX (See Fig.1)

- Direct-driving design, minimize the lift wear parts and breakdown ratio.
- Dual hydraulic direct-drive cylinders, **designed and made as US standard, utilizing imported 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 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.

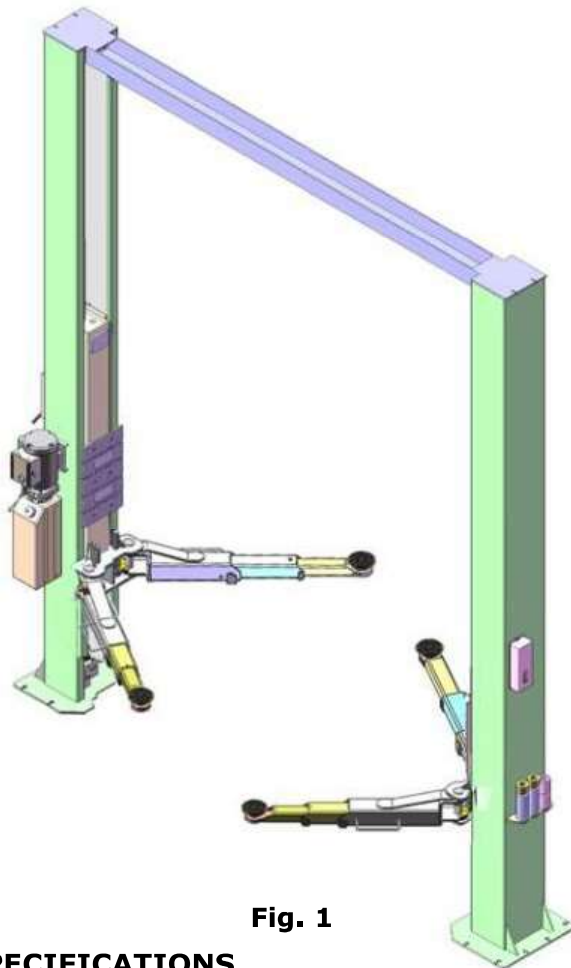


Fig. 1

## MODEL 210C 210CX SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Minimum Pad Height	Motor
CL4500	Clear-floor Direct-drive	10,000lbs	60s	76 3/8"-85 3/8"	151 3/4"	138 3/8"	3 1/2"	3.0HP
CL4500 CX	Clear-floor Direct-drive	10,000lbs	60s	76 3/8"-85 3/8"	151 3/4"	144 3/8"	3 1/2"	3.0HP

## CLEARFLOOR DIRECT-DRIVEN MODEL FEATURES

### MODEL 210SAC (See Fig.2)

- Direct-driving design, minimize the lift wear parts and breakdown ratio.
- Dual hydraulic direct-drive cylinders, **designed and made as USA standard, 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 space.
- Overhead safety shut-off device.
- **With** Super-asymmetric arms
- Stackable adapters 1.5", 2.5", 5" as standard.

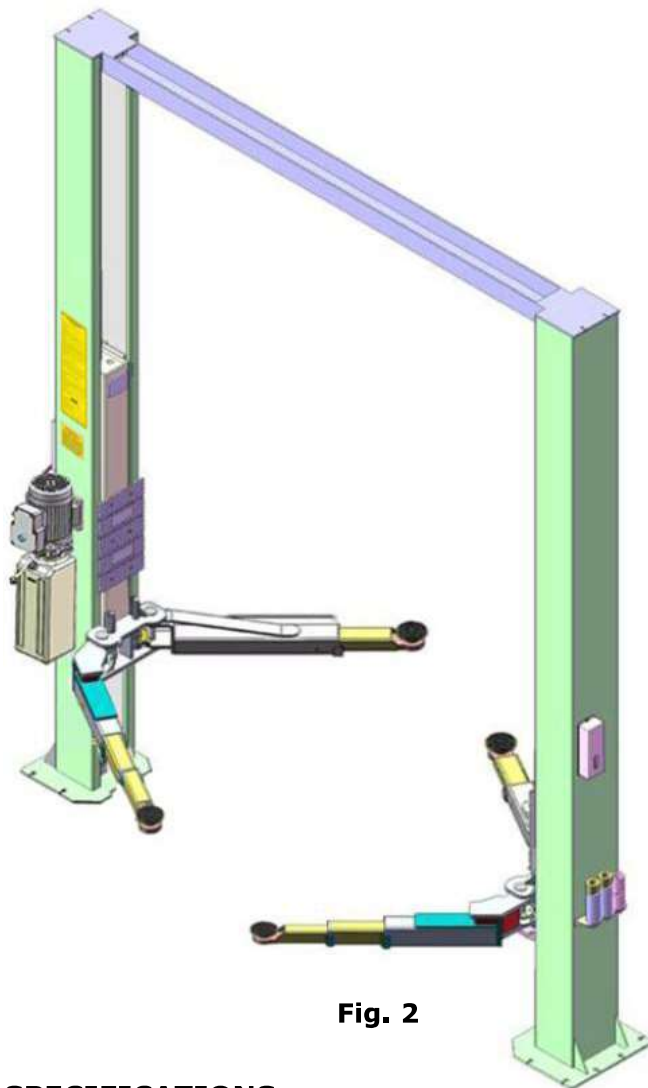


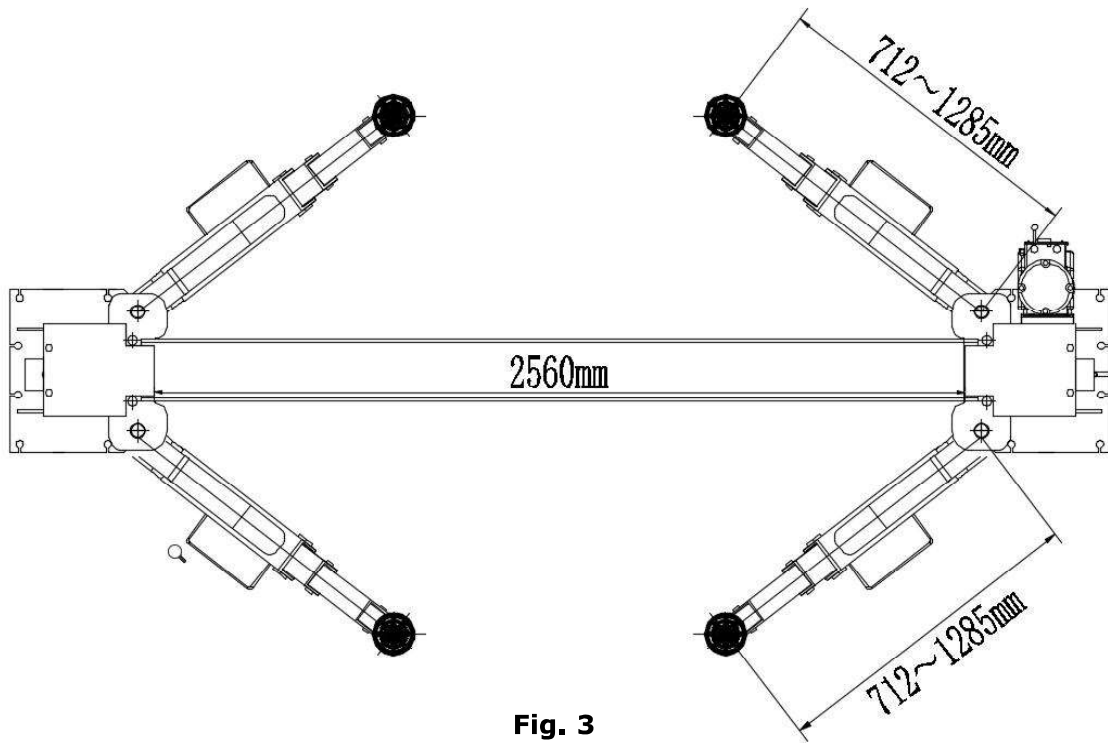
Fig. 2

### MODEL 210SAC SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Minimum Pad Height	Motor
210SAC	Clear-floor Direct-drive	10,000lbs	60S	76 3/8"-85 3/8"	151 3/4"	138 3/8"	3 1/2"	3.0HP

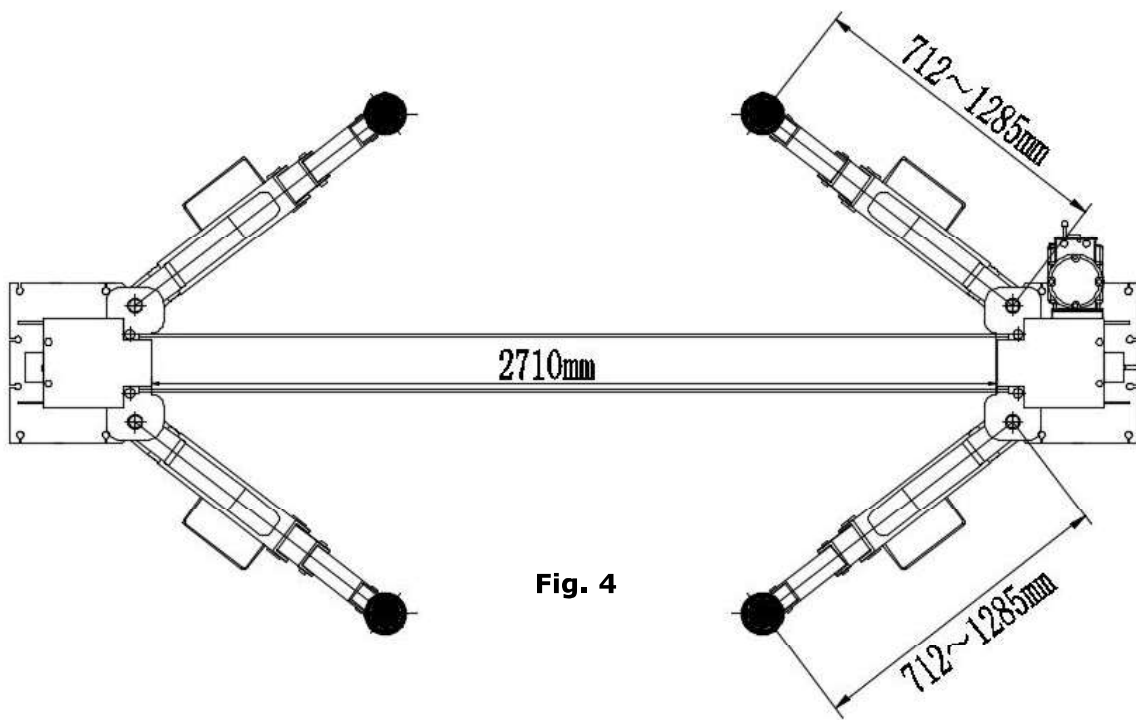
**Arm Swings View**

**For Model CL4500**



**Fig. 3**

**For Model CL4500CX**



**Fig. 4**

## 210SAC Arm Swings View

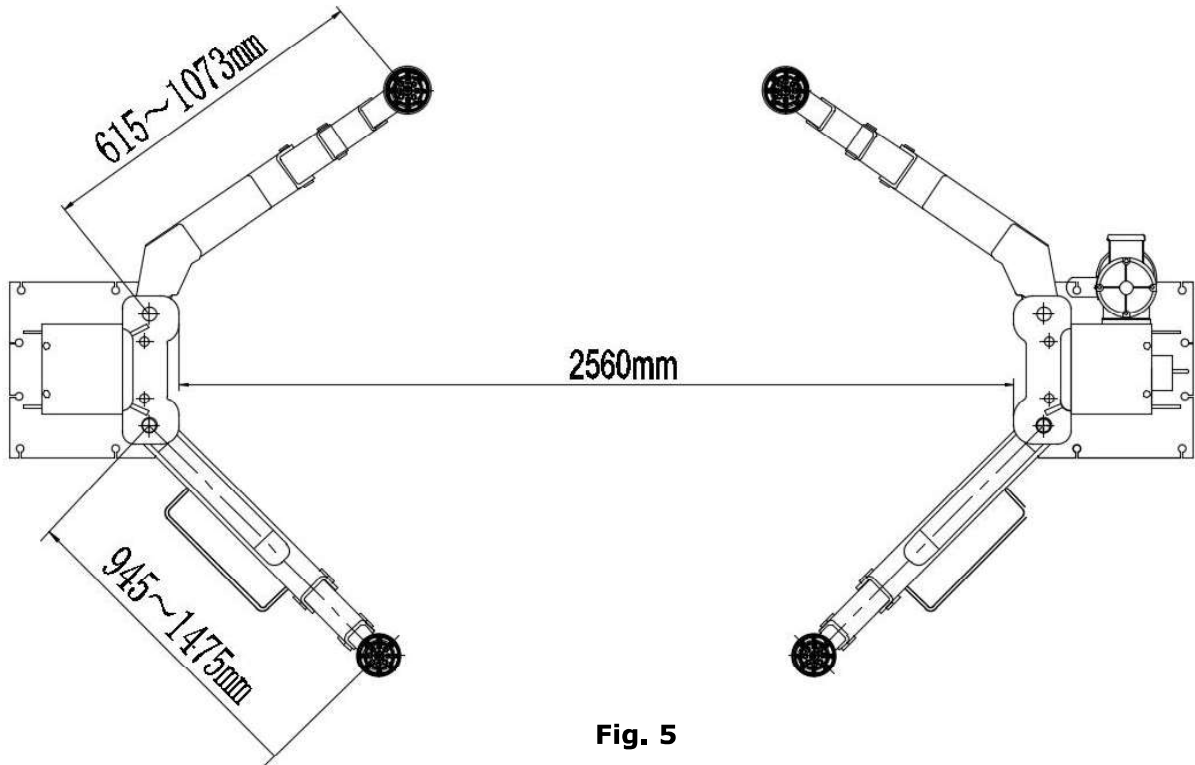
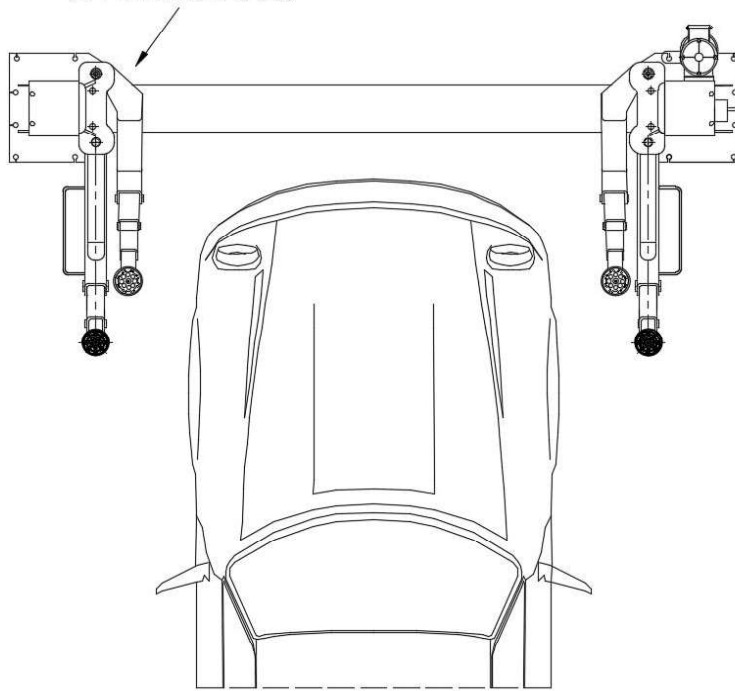


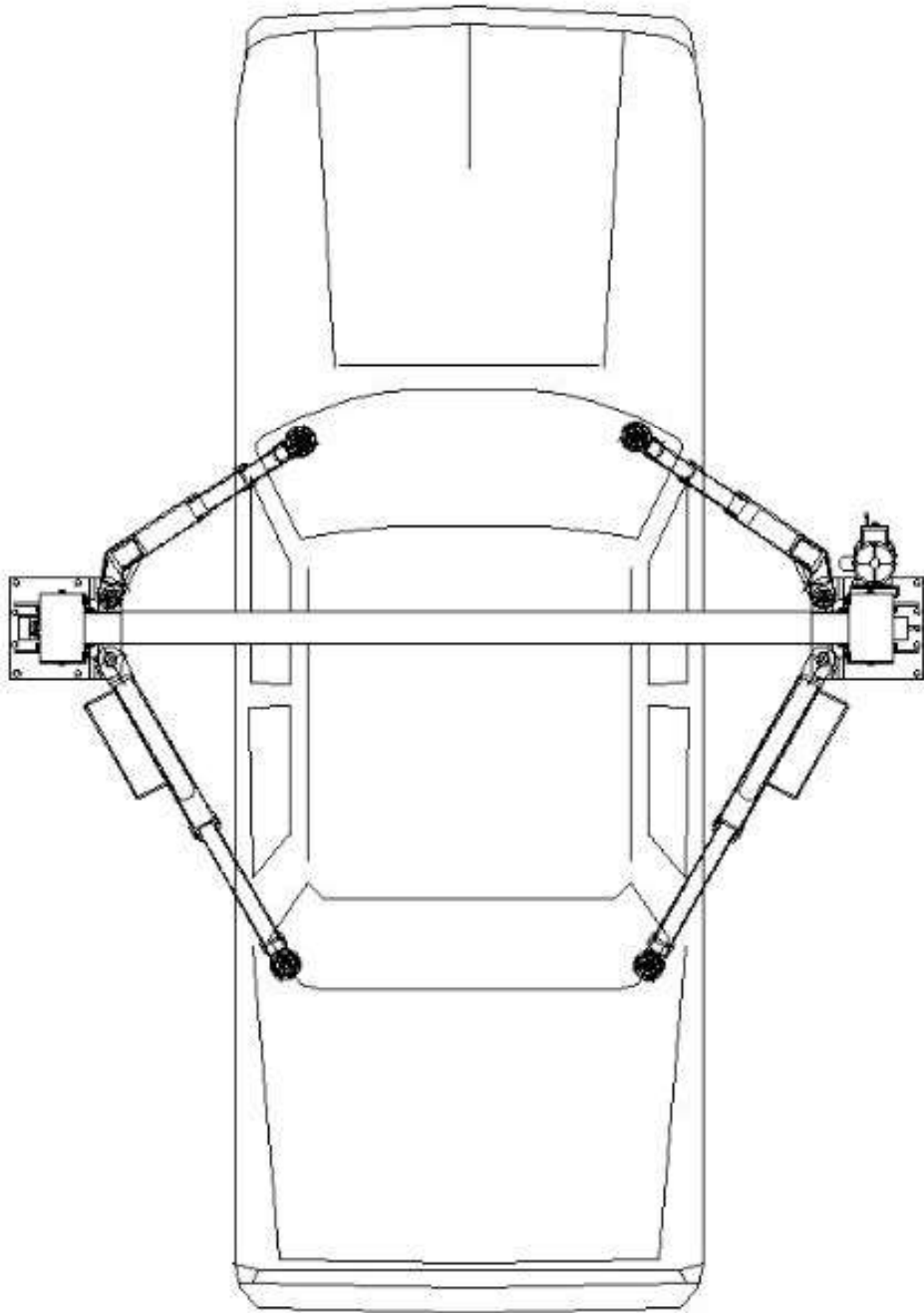
Fig. 5

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



**Fig. 6**

Swing and extending the arms to the lifting point of vehicle



**Fig. 7**



## II. INSTALLATION REQUIREMENT

### A. TOOLS REQUIRED

- ✓ Rotary Hammer Drill ( $\Phi 19$ )



- ✓ Hammer



- ✓ Level Bar



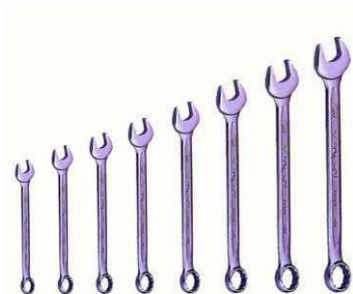
- ✓ English Spanner (12")



- ✓ 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. 8

**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 unloads and transfer by forklift.**



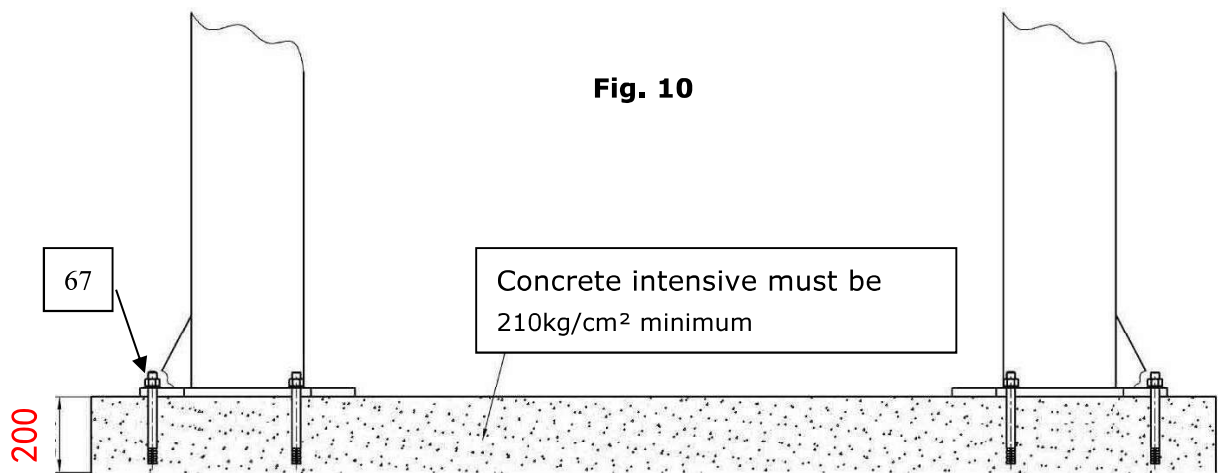
**Fig. 9**

**D. SPECIFICATIONS OF CONCRETE (See Fig. 10)**

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 200mm 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/cm<sup>2</sup>) minimum.
3. Floors must be level without cracks.



**Fig. 10**

**E. POWER SUPPLY**

The electrical source must be 2.2KW minimum. The source cable size must be 2.5mm<sup>2</sup> 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. 11).

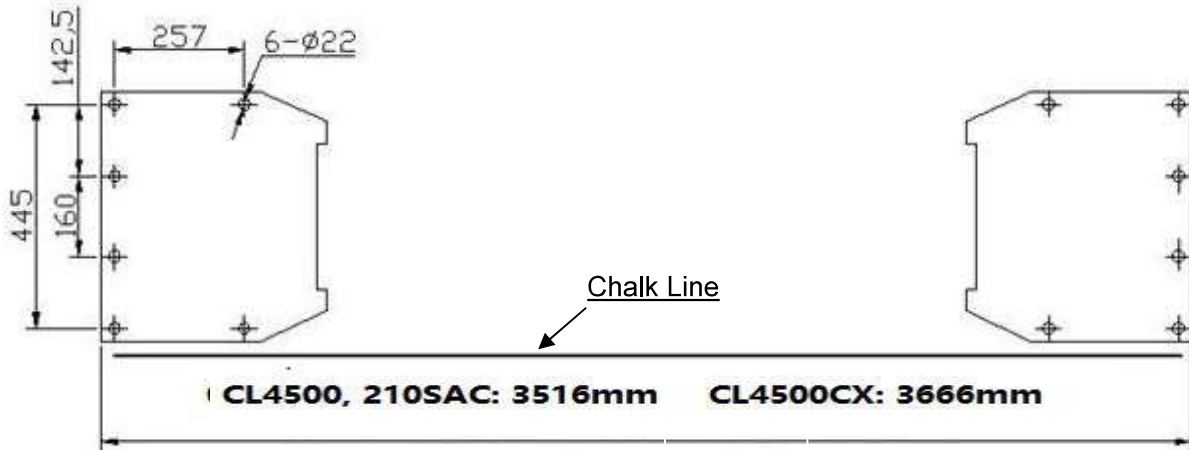


Fig. 11

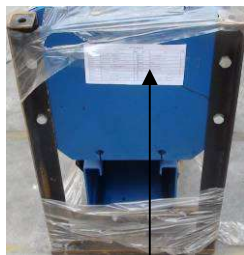
#### C. Check the parts before assembly

1. Packaged lift and hydraulic power unit (see Fig. 12)

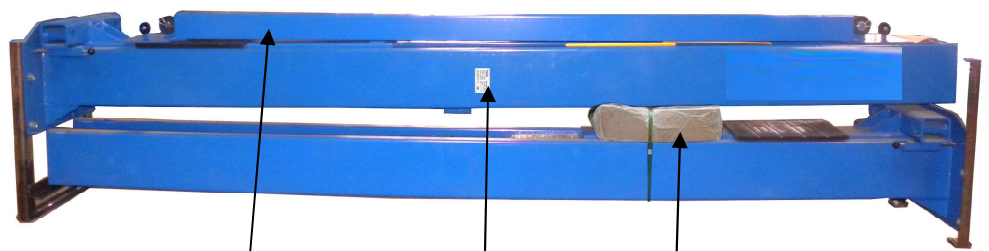


Fig. 12

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. 13).



Shipment Parts



Top beam Serial number Parts box.

Fig. 13

3. Loosen 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 CL4500, CL4500CX (See Fig. 14, 15).



**Fig. 14**  
Parts in the shipment parts list



**Fig. 15**  
Parts in the parts box (37)

- 4.2 For Model 210SAC (See Fig. 16, 17).



**Fig. 16**  
Parts in the shipment parts list



**Fig. 17**  
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. 18).



Fig. 18

**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. 19).

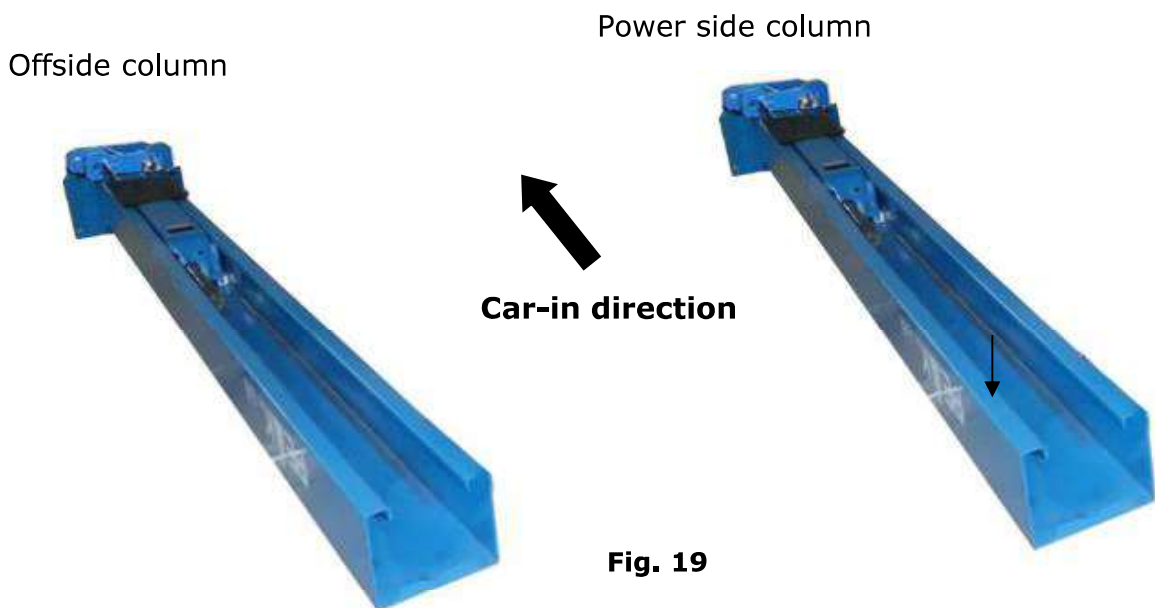
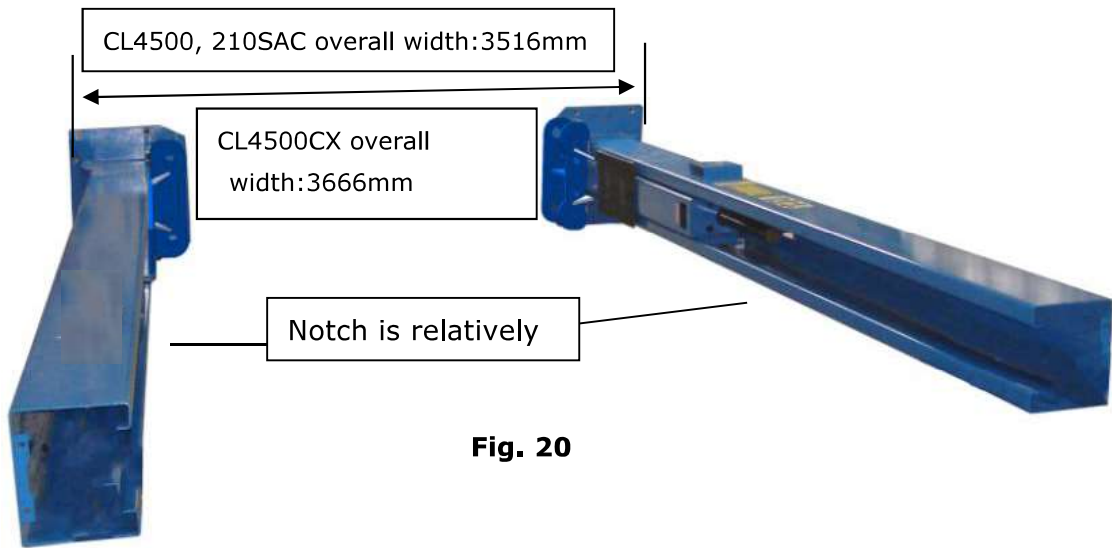


Fig. 19

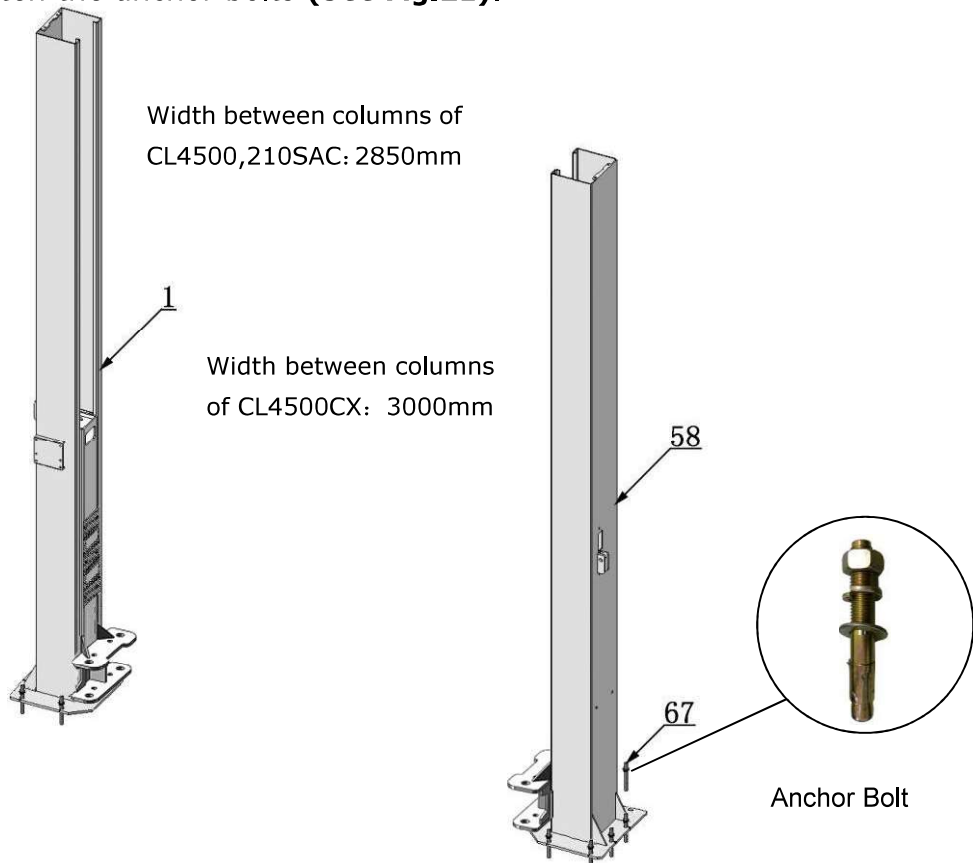
**E. Lay down aside the columns with cables and oil hoses installed, face the open way of each columns. (Fig.20)**



**Fig. 20**

**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.21**).



Note: Minimum embedment of anchors is 110mm.



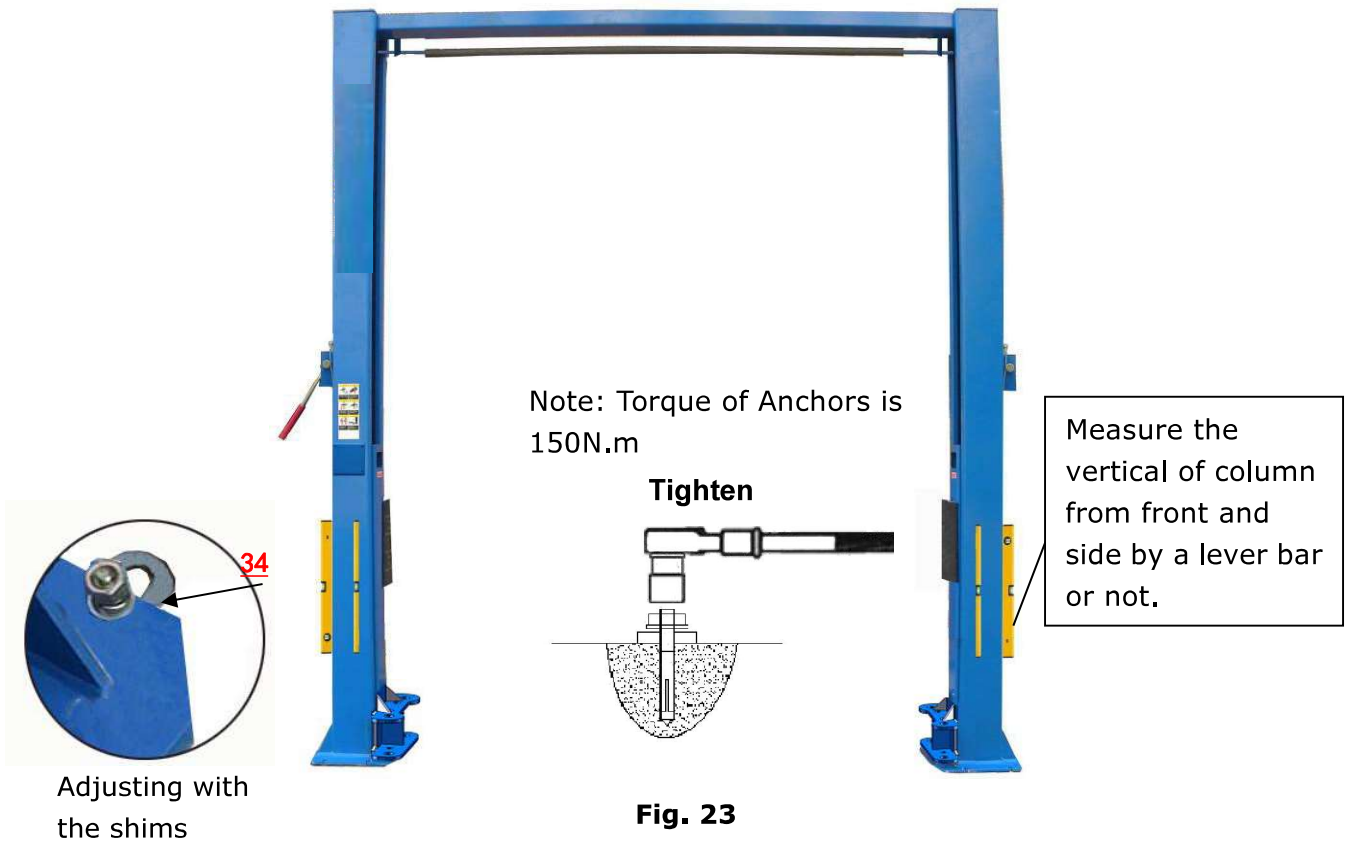
**Fig. 21**

**G. Mounting the top beam by lifting equipment. Fig.22**



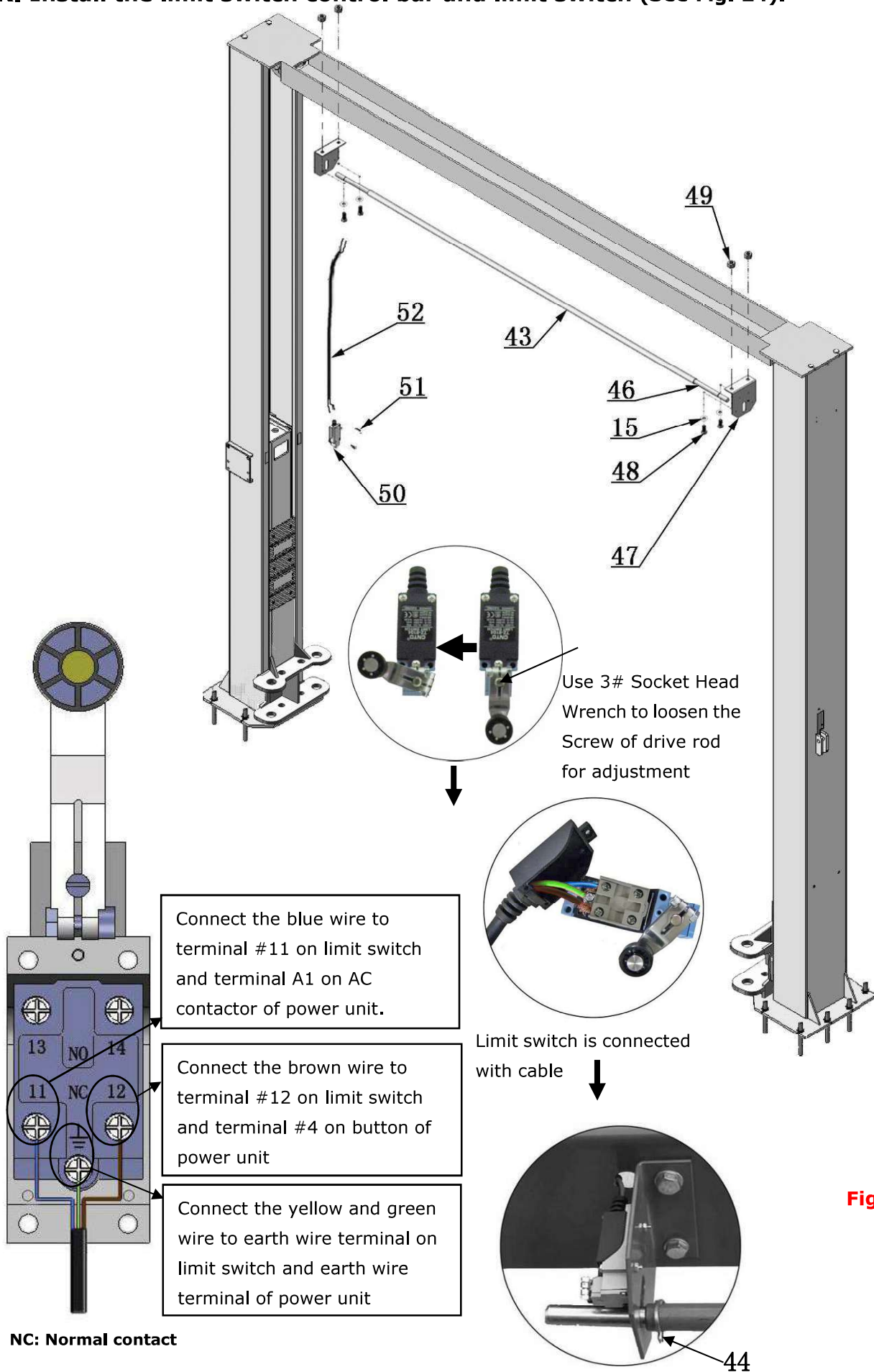
**Fig.22**

**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.23**).





**K. Install the limit switch control bar and limit switch (See Fig. 24).**

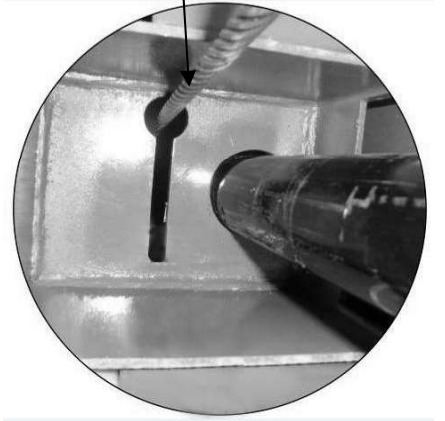
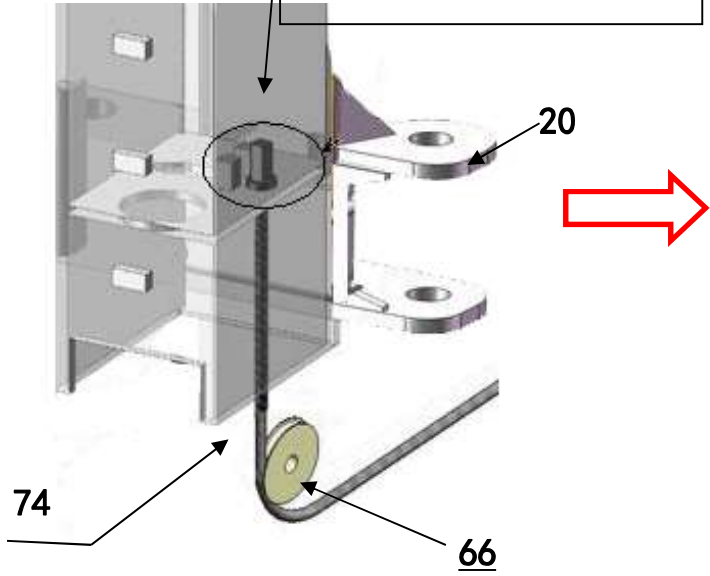


**Fig. 24**

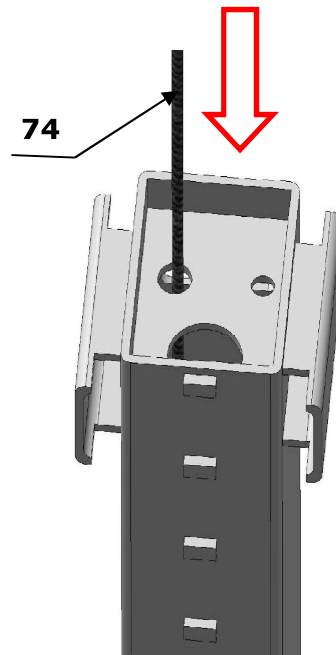
**L. Install safety cable (See Fig. 25).**

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

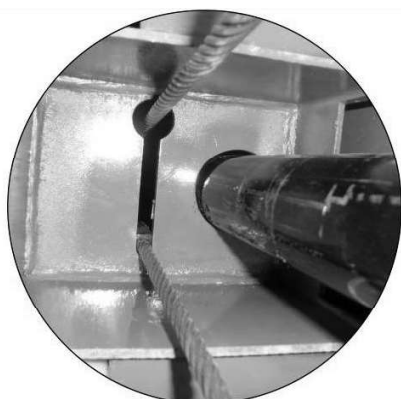
2 Pass the other end of the cable up from the bottom of the other lifting carriage



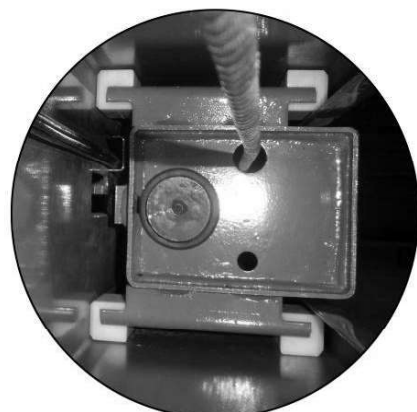
**Cable through the bottom of the carriage**



**Cables pass through the top plate of the carriages**

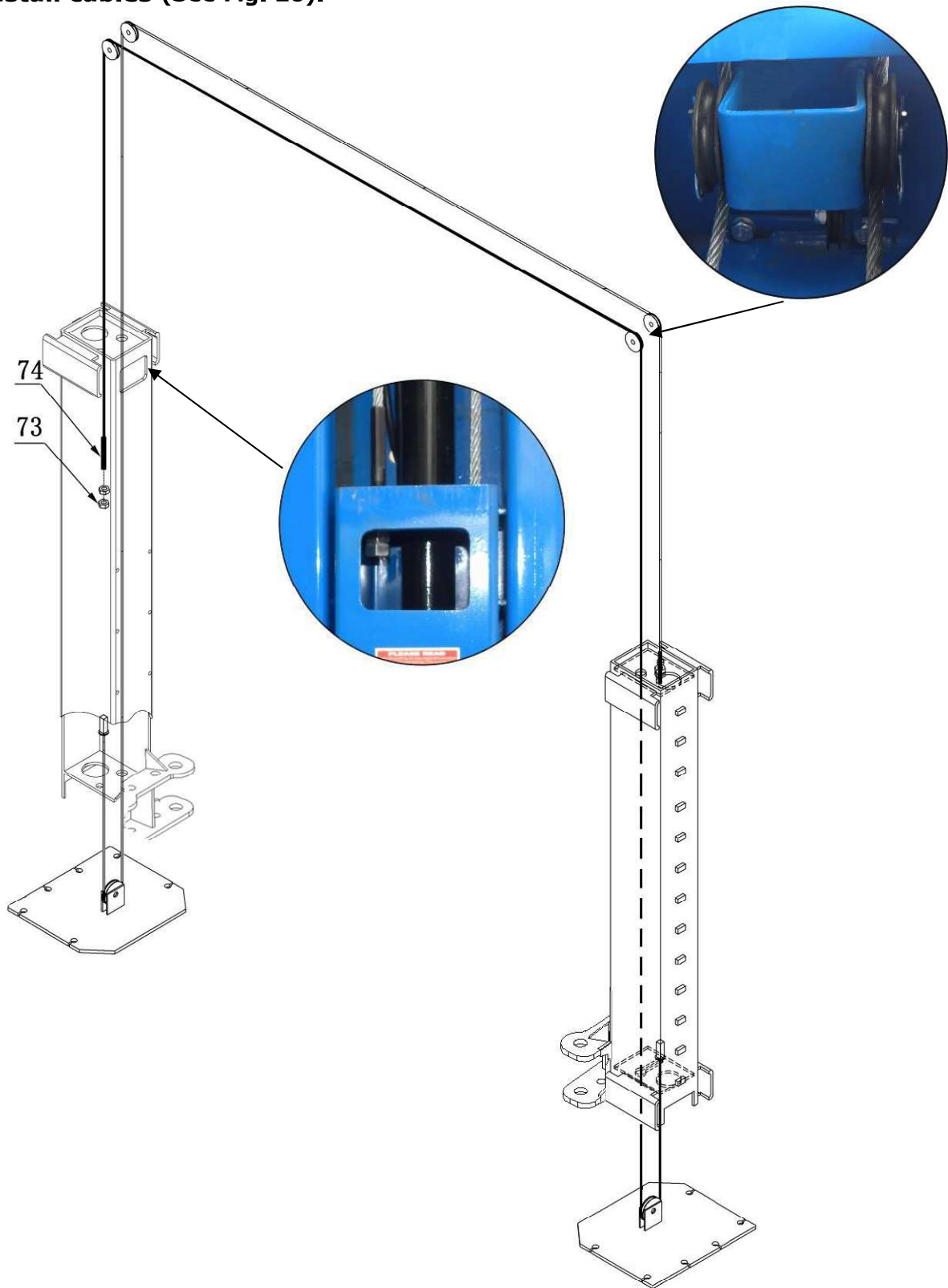


After installation



**Fig. 25**

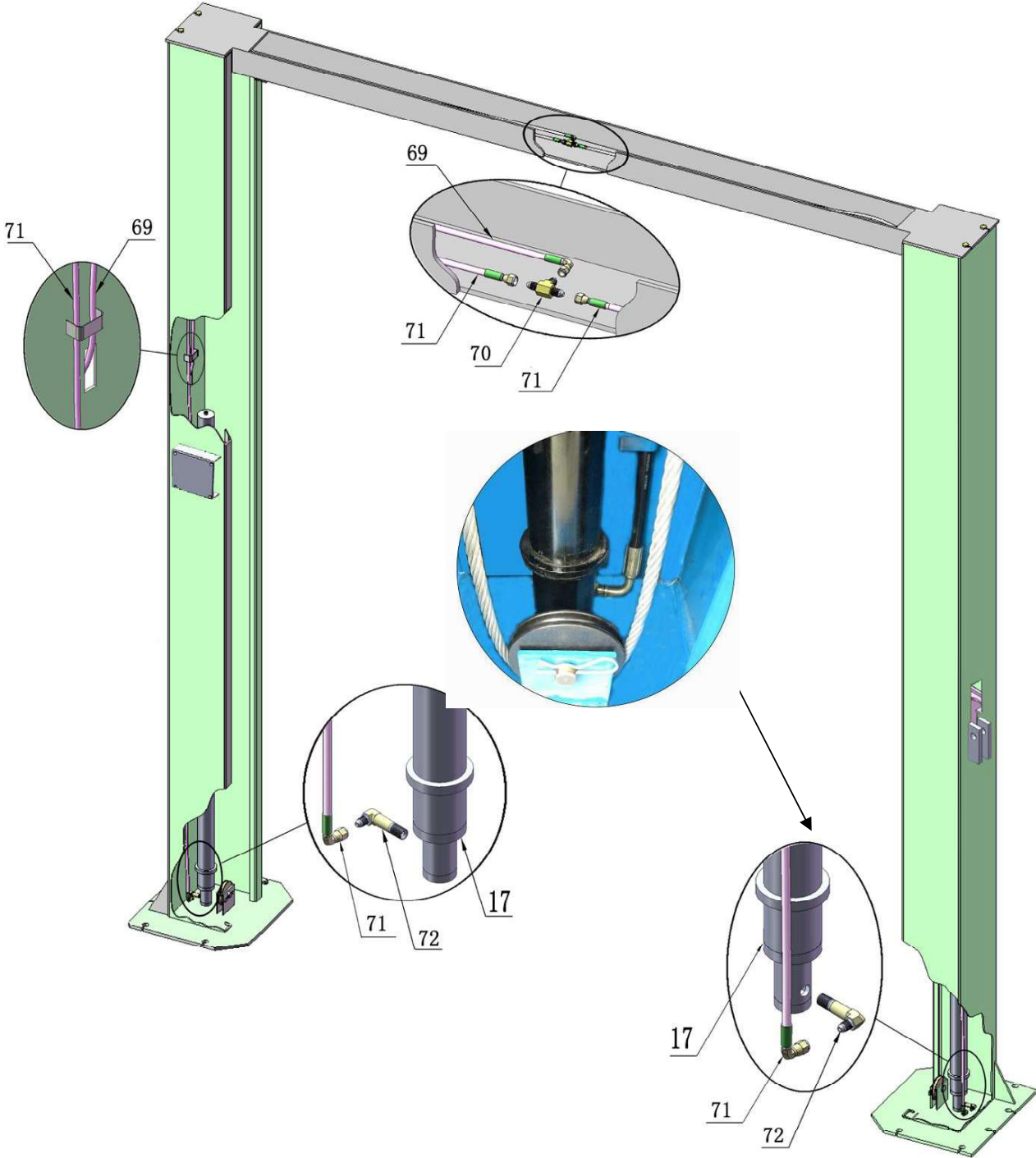
**M. Install cables (See Fig. 26).**



**Fig. 26**

**N. Assembly oil hose.**

**1. For model CL4500, 210SAC (See Fig. 27).**



**Fig. 27**

2. For model CL4500CX (See Fig. 28).

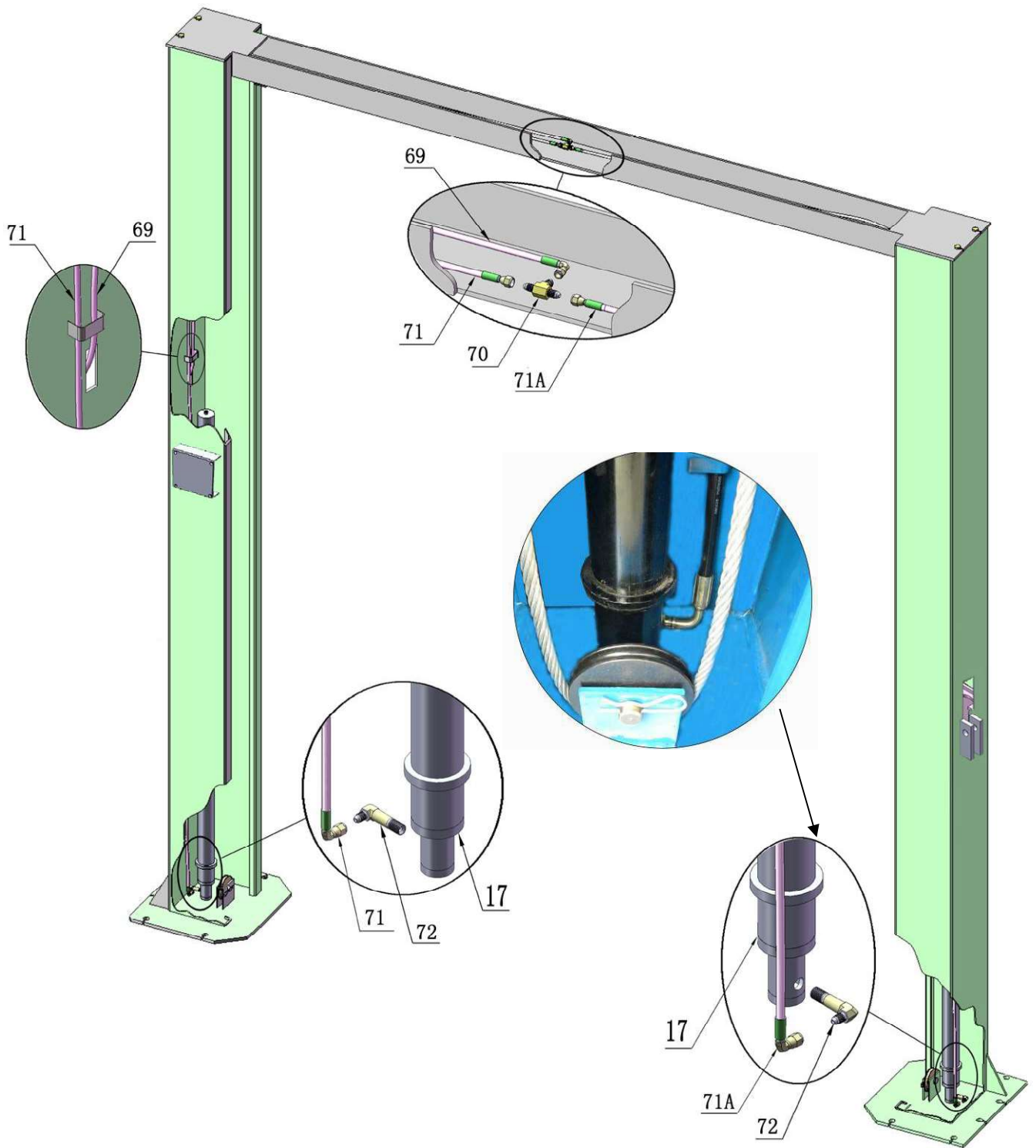
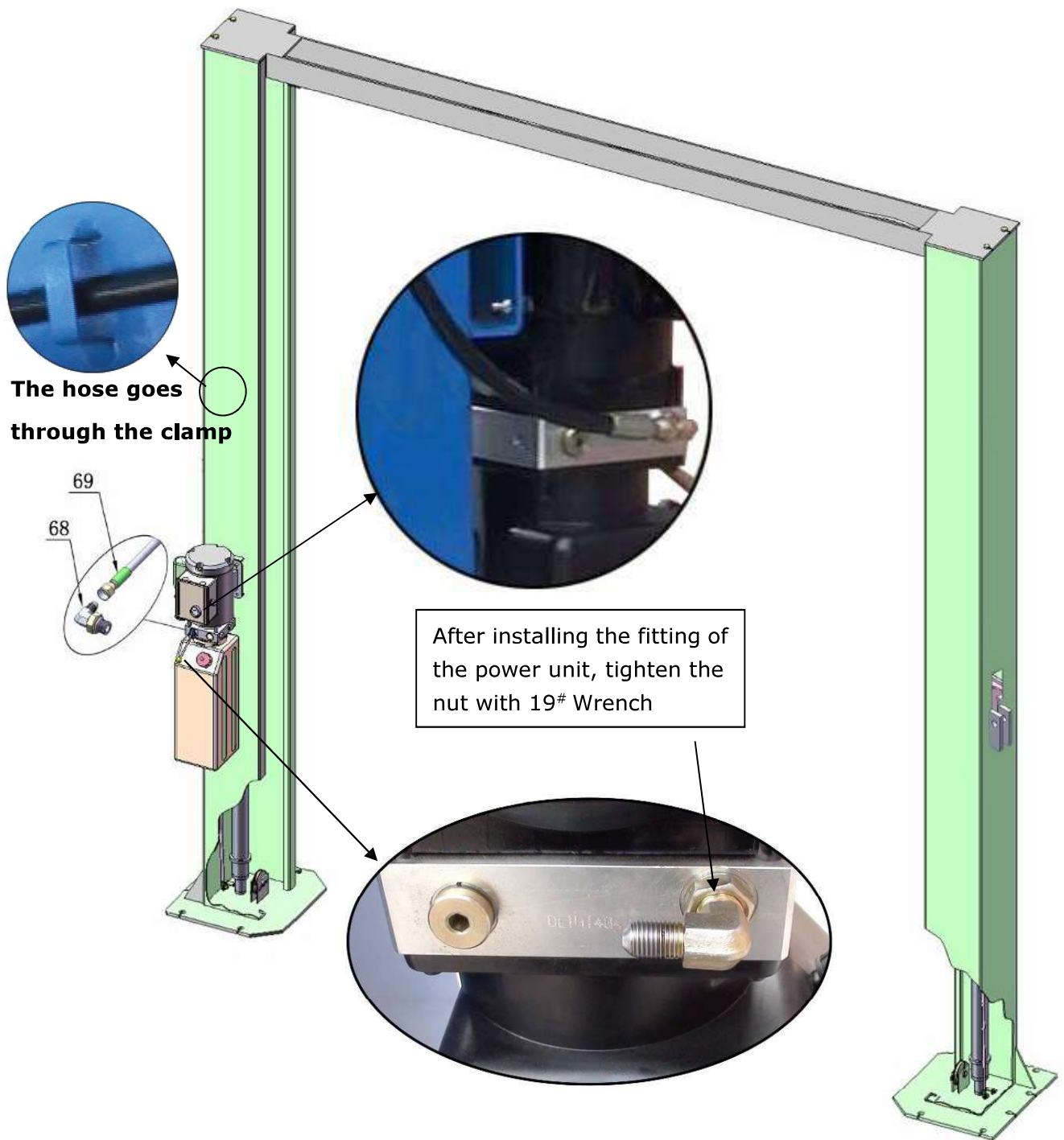


Fig. 28



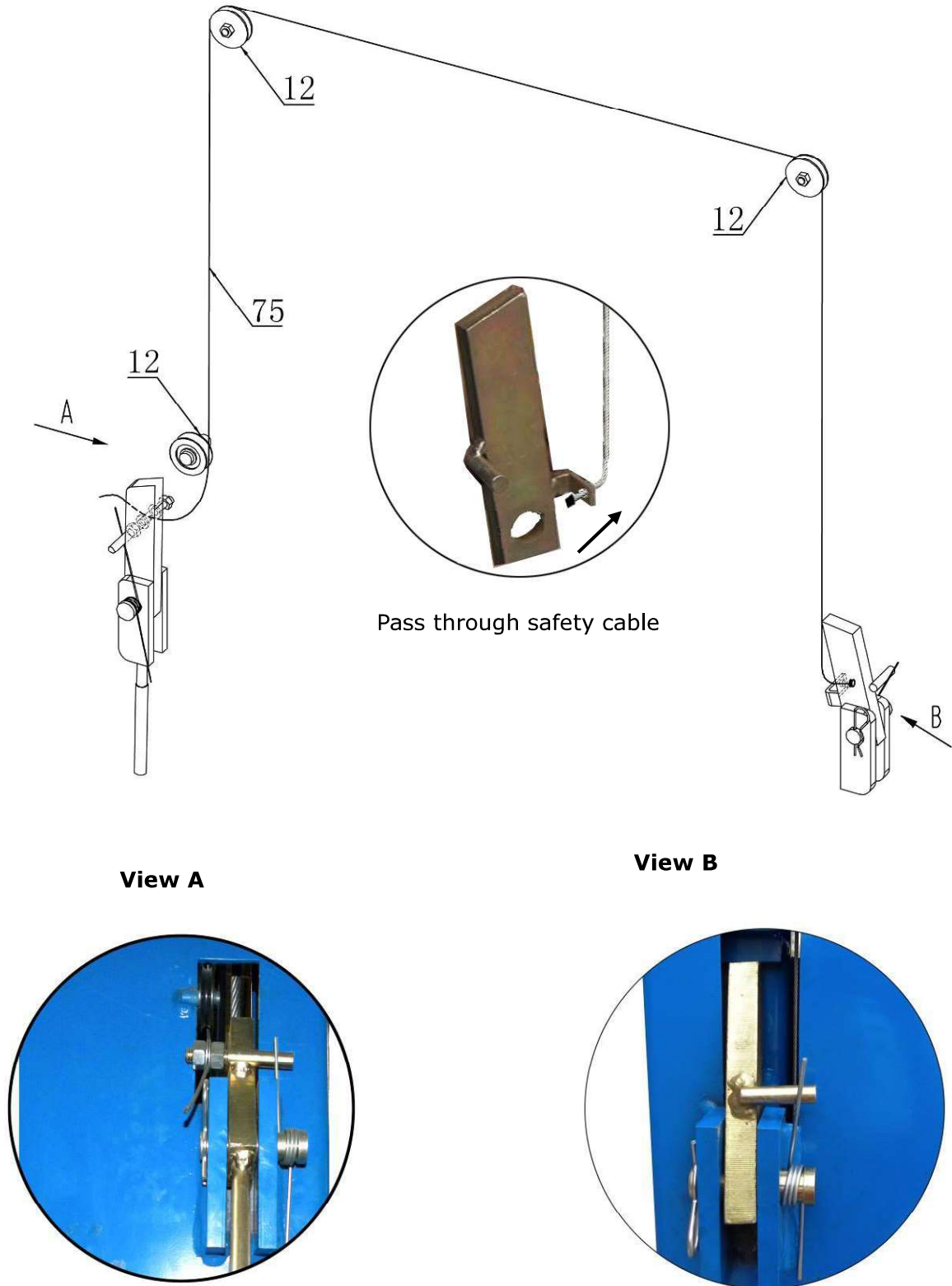
**O. Install power unit and oil hoses (See Fig. 29)**

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



**Fig. 29**

**P. Install safety cable (See Fig. 30).**



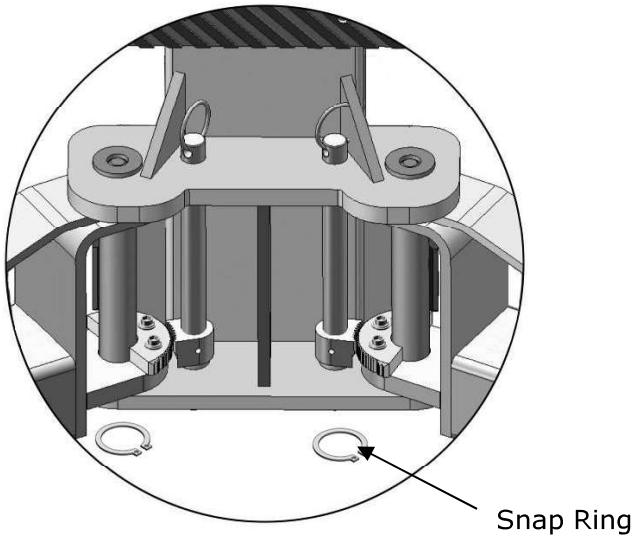
**Fig. 30**

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

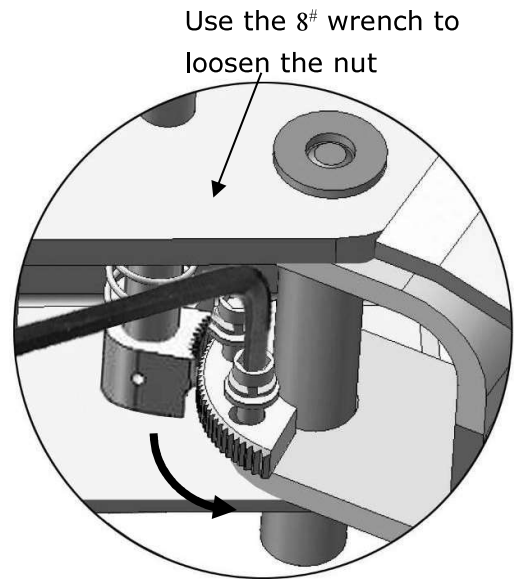
**Note: In consideration of Hydraulic Power Unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#.**

**Q. Install lifting arms and adjust the arm locks**

1. Install the lifting arms (See Fig. 31).
2. Lowering the carriages to the lowest position, then use the 8# wrench to loosen the nut of arm lock (See Fig. 32).



**Fig. 31**

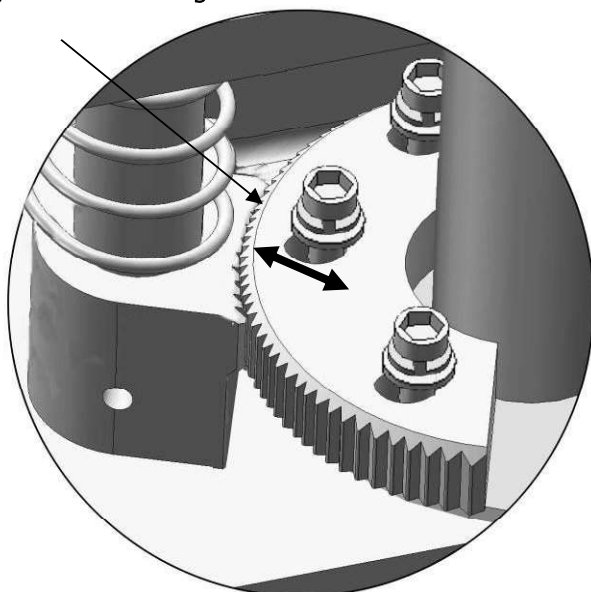


**Fig. 32**

3. Adjust the arm lock as direction of arrow (See Fig. 33)

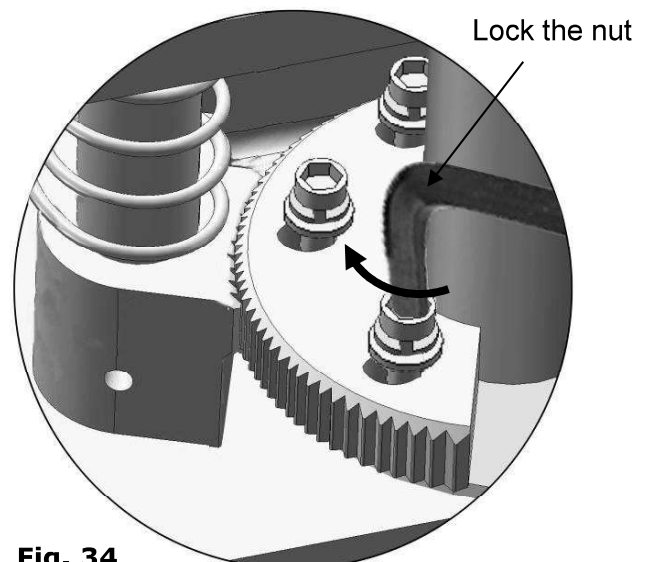
4. Adjust the moon gear and arm lock to make it to be meshed, then tighten the nut of arm lock (See Fig. 34).

Adjust the moon gear



**Fig. 33**

Lock the nuts after the moon gear and arm lock are engaged well



**Fig. 34**



## R. Install electrical system

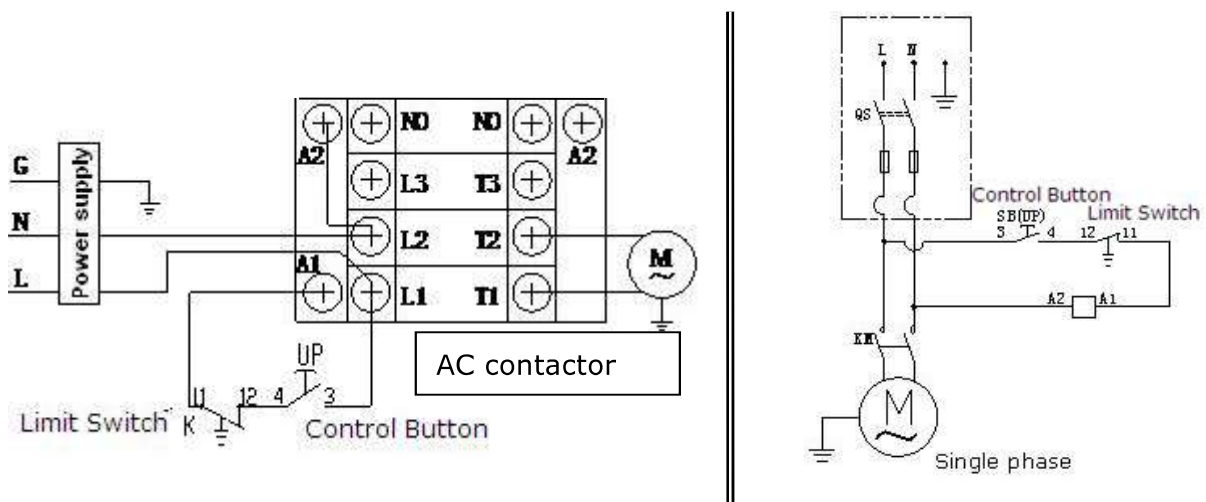
Connect the power source on the data plate of power unit.

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

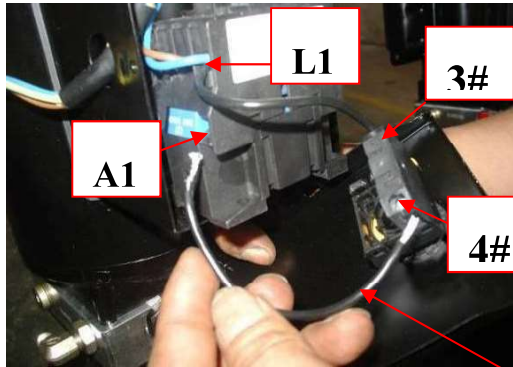
**2. Pay attention to the direction of rotations when using three phase motors.**

### Single phase motor (See Fig. 35).

1. Connecting the two power supply lines (Active **L** and Neutral Wire **N**) to terminals of AC contactor marked **L1, L2** respectively.
2. Connecting the two motor wires to terminals of AC contactor marked **T1, T2**.
3. Connecting **A2** to **L2** of AC contactor.
4. Connecting the Limit Switch: Removing the wire of connecting terminal **4#** on control button and terminal **A1** on AC contactor firstly (See Fig. 36), then connecting wire **12# (brown color)** of the limit switch with terminal **4#** of the control button and connecting wire **11# (blue color)** with terminal **A1** on AC contactor respectively. Connecting the earth wire (green and yellow color) of the limit switch with earth wire terminal on power unit. (See Fig. 37).
5. Connecting terminal **3#** on control button with terminal **L1** of AC contactor.

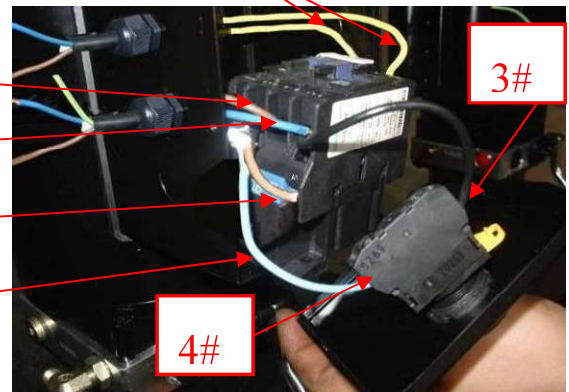


**Fig. 35**



**Fig. 36**

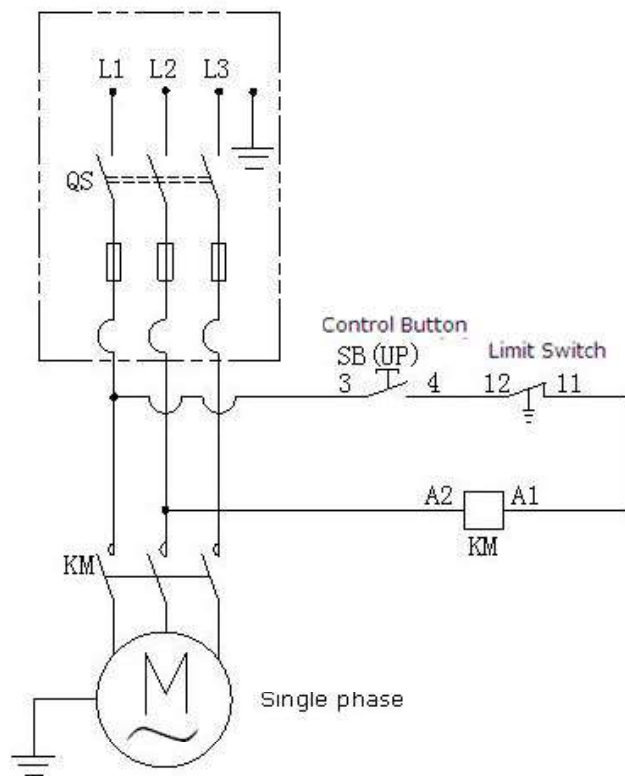
Remove this wire before connecting the Limit Switch



**Fig. 37**

### Three phase motor

1. Circuit diagram (See Fig. 38)



**Fig. 38**

2. Connection step (See Fig. 39)

- a. The source wires (**L1, L2, L3**) connected with terminals of AC contactor marked **L1, L2, L3** respectively.
- b. Terminals **4#** of control button connected with wire **12#** (brown wire) of limit switch; wire **11#** (blue wire) connected with **A1** terminals of AC contactor, Earth wire (yellow and green wire) of limit switch is connected with terminal earth wire of the motor.
- c. Terminals **3#** of control button connected with **L1** terminals of AC contactor.

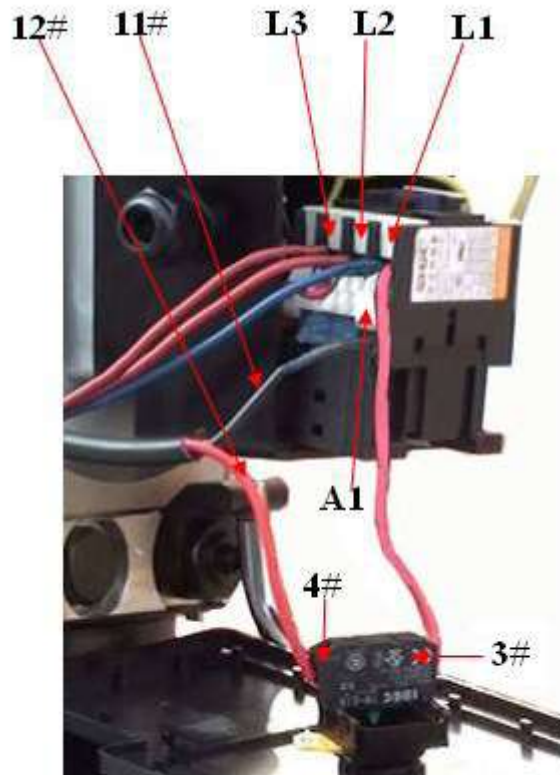
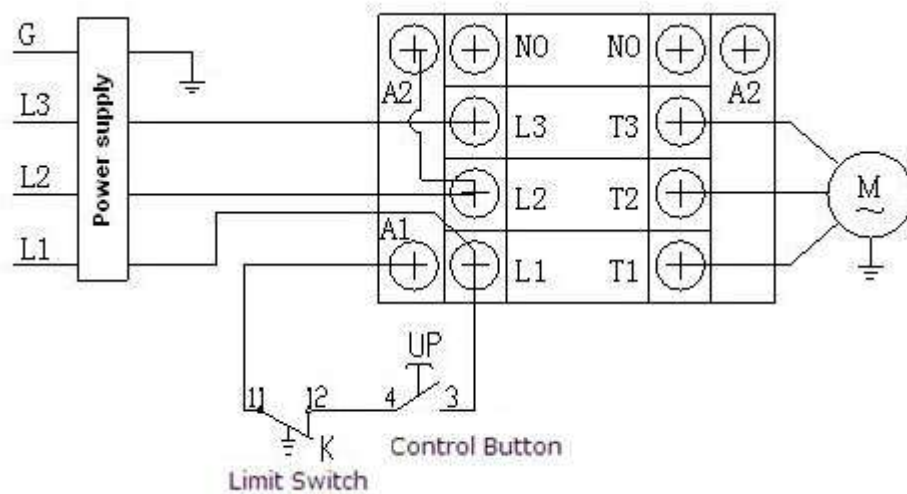


Fig. 39

# IV. EXPLODED VIEW

Model CL4500 CL4500CX

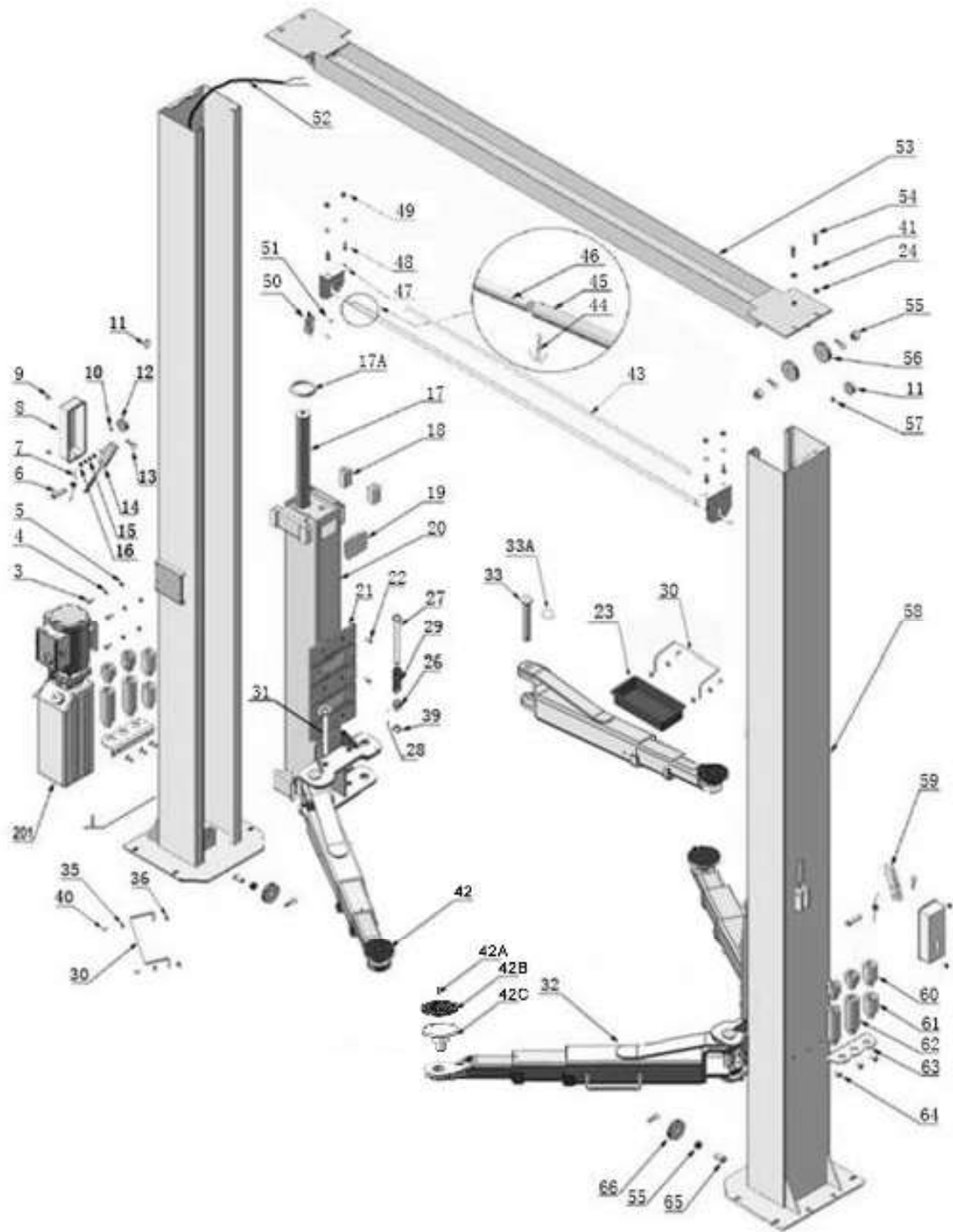


Fig. 40

Model 210SAC

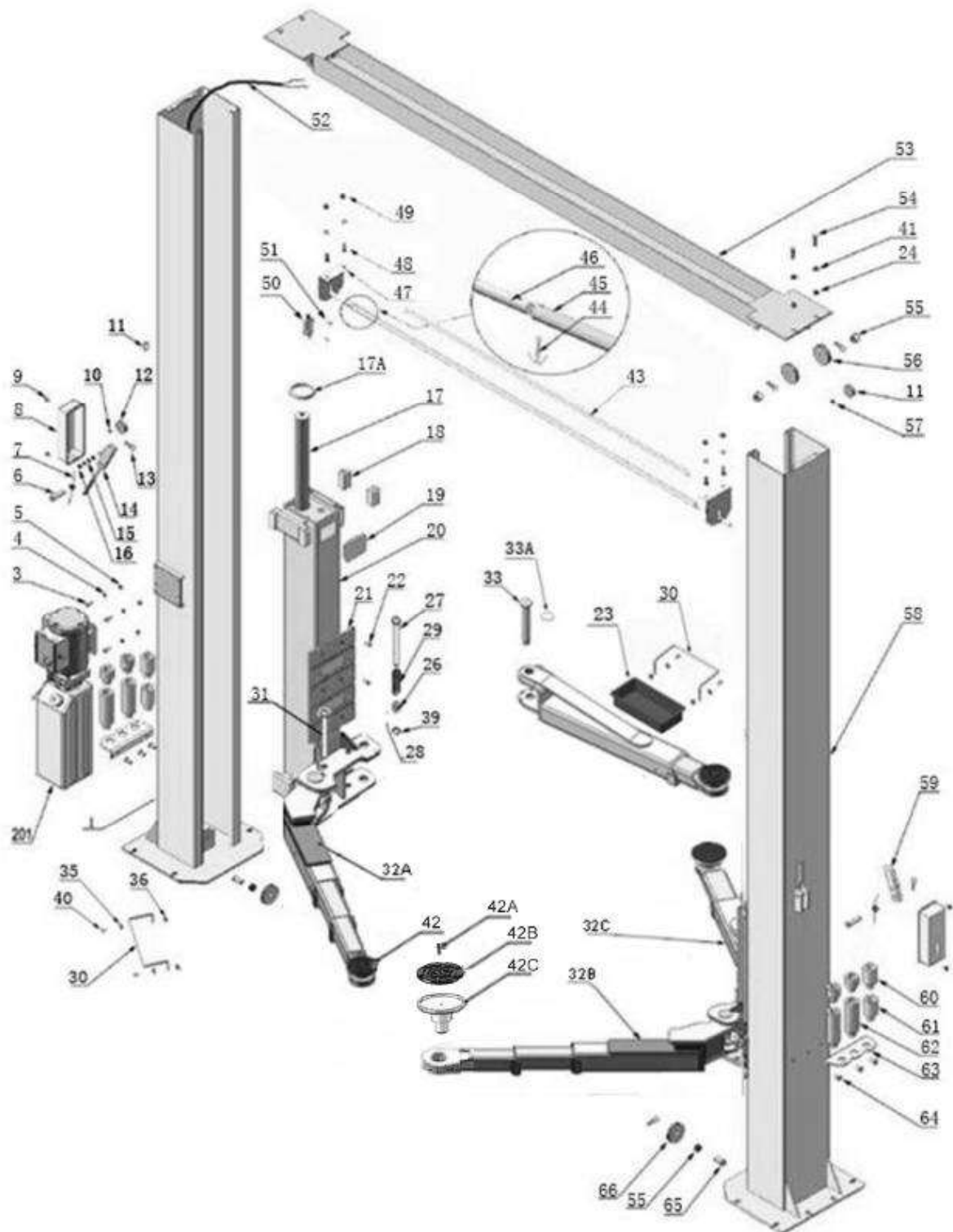


Fig. 41

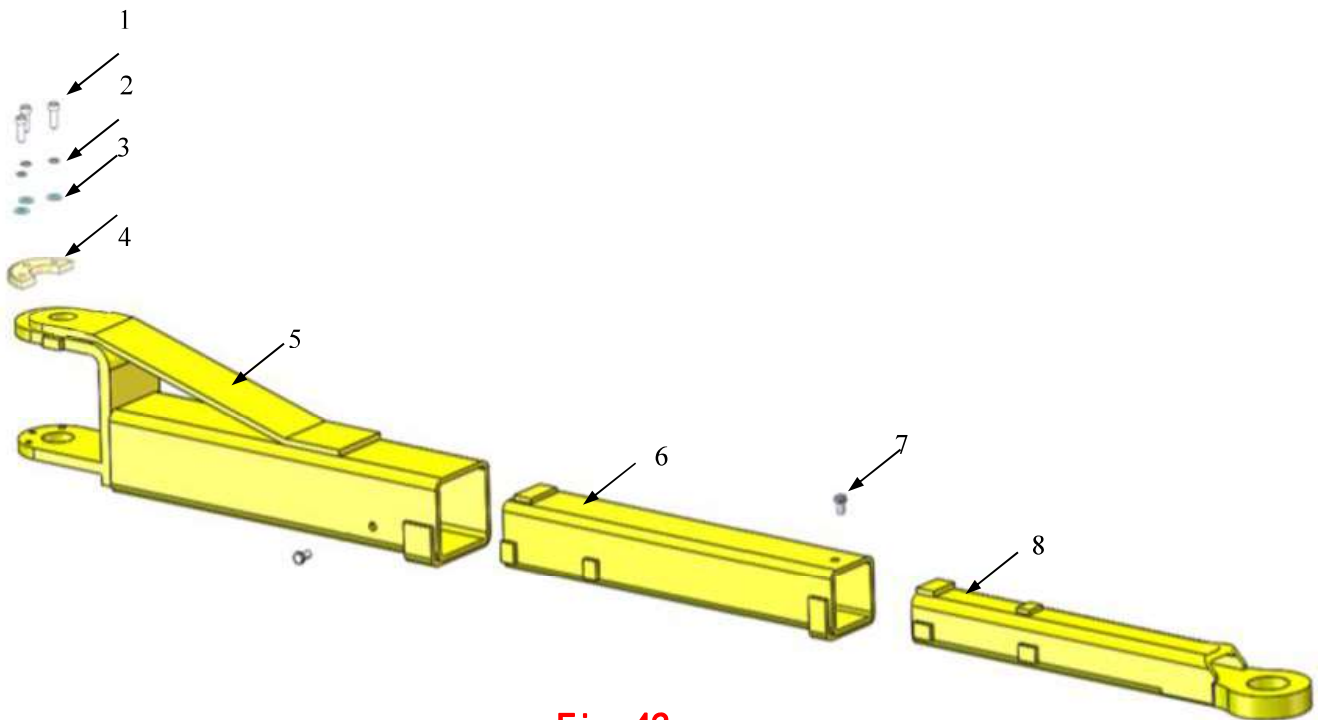
## PARTS LIST

Item	Part#	Description	Qty.		
			CL4500	CL4500CX	210SAC
1	11209206	Power side Column	1	1	1
201	81513001/ 81513002	Power Unit	1	1	1
3	10209003	Hex Bolt	4	4	4
4	10209004	Rubber Ring	4	4	4
5	10209005	Self-locking Nut	4	4	4
6	11206002	Safety Pin	2	2	2
7	10209007	Safety Spring	2	2	2
8	10209008	Safety Cover	2	2	2
9	10209009	Cup Head Bolt	4	4	4
10	10209010	Snap Ring	1	1	1
11	10620059	Protective ring	1	1	1
12	10209049	Plastic small pulley	3	3	3
13	10209012	Hair Pin	8	8	8
14	11209013	Power side Safety Lock	1	1	1
15	10206006	Washer	6	6	6
16	10206023A	Hex Nut	2	2	2
17	11209014	Cylinder	2	2	2
17A	11209111	Protective ring for cylinder	2	2	2
18	10209015	Slider Block	16	16	16
19	10209016	Carriage Plastic Cover	2	2	2
20	11209208	Carriage	2	2	2
21	10209018	Protective Rubber	2	2	2
22	10209019	Screw	12	12	12
23	10206190	Tool tray	2	2	2
24	10209021	Hex Nut	4	4	4
25	10209022	Washer	12	12	12
26	10217044	Arm lock	4	4	4
27	11217046A	Arm lock bar (left)	2	2	2
28	10206036	Hair Pin	4	4	4
29	10217045	Spring	4	4	4
30	11206191	Toe guard bar	4	4	4
31	11217046	Arm lock bar (right)	2	2	2
32	10203156	Front arm	4	4	0
32A	10279010	Right front arm	0	0	1
32B	10279009	Left front arm	0	0	1
32C	10279011	Rear arm	0	0	2

Item	Part#	Description	Qty.		
			CL4500	CL4500CX	210SAC
33	11217168	Arm Pin	4	4	4
33A	10520023	Snap Ring	4	4	4
34	10201090	Shim 1mm	10	10	10
	10620065	Shim 2mm	10	10	10
35	10209034	Lock Washer	10	8	8
36	10209033	Washer	8	8	8
37	10209501B	Part box	1	0	0
	10209502B		0	1	0
	10209501B		0	0	1
38	10209153	Pull tab for arm lock bar	4	4	4
39	10206032	Snap ring	4	4	4
40	10201002	Hex Bolt	10	8	8
41	10209039	Lock Washer	12	12	12
42	11217114A	Rubber Pad Assy.	4	4	4
42A	10420138	Socket bolt	4	4	4
42B	10209134	Rubber Pad	4	4	4
42C	11680030B	Rubber Pad Support Frame	4	4	4
43	10206025A	Foam Cushion for control bar	1	1	1
44	10201005	Split pin	2	2	2
45	11206025C	Connecting Pin for Control Bar	2	2	2
46	11202011	Control Bar	1	1	1
47	11206042	Control Bar Bracket	2	2	2
48	10206041	Hex Bolt	4	4	4
49	10206023	Self-locking Nut	4	4	4
50	10206013	Limit Switch	1	1	1
51	10206011	Cup Head Bolt	2	2	2
52	10209184	Wire Cable	1	1	1
53	11211011	Top Beam	1	0	1
	11211011A		0	1	0
54	10209046	Hex Bolt	4	4	4
55	10209057A	Bronze Bush	6	6	6
56	11209057	Small Pulley	4	4	4
57	10209056	Self-locking Nut	2	2	2
58	11209207	Offside Column	1	1	1
59	11211013	Offside Safety Lock	1	1	1
60	11209051B	Stackable Adapter (1.5")	4	4	4
61	11209052B	Stackable Adapter (2.5")	4	4	4
62	11209053B	Stackable Adapter (5")	4	4	4
63	11209054A	Stackable Adapter Bracket	2	2	2
64	10680003	Hex Bolt	4	4	4

65	11209044	Pin for Pulley	2	2	2
66	11209045	Big Pulley	2	2	2
67	10209059B	Anchor Bolt	12	12	12
68	10209060	90° Fitting for power unit	1	1	1
69	10211014	Oil hose	1	1	1
70	10211016	T- fitting	1	1	1
71	10211015A	Oil hose	2	1	1
71A	10211020	Oil hose	0	1	1
72	10211017	Extend 90° fitting for Cylinder	2	2	2
73	10209066	Hex Nut	4	4	4
74	10211018	Cable	2	0	2
	10211018A		0	2	0
75	10211019	Safety Cable	1	0	1
	10211019A		0	1	0

**4.1 Lifting arm assy. (10203156) explosive view  
Model CL4500 ,CL4500CX**

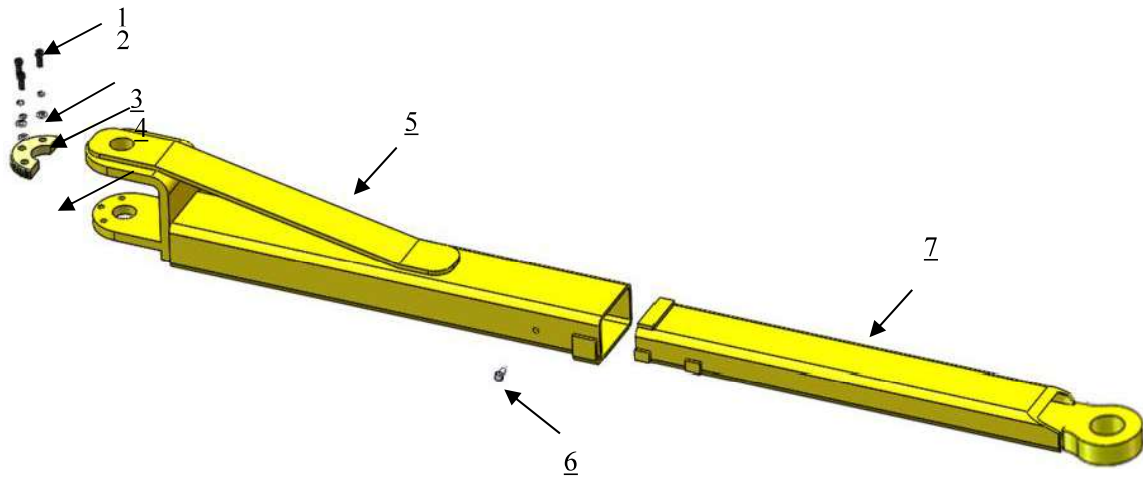


**Fig. 42**

No	Part no	Name	QTY	No	Part no	Name	QTY
1	10206048	Hex nut	12	5	11203146	Outer arm	4
2	10209039	washer	12	6	11203147	Middle arm	4
3	10209022	washer	12	7	10201149	Cup head bolt	8
4	11206049	Moon gear	4	8	11203148	Inner arm	4



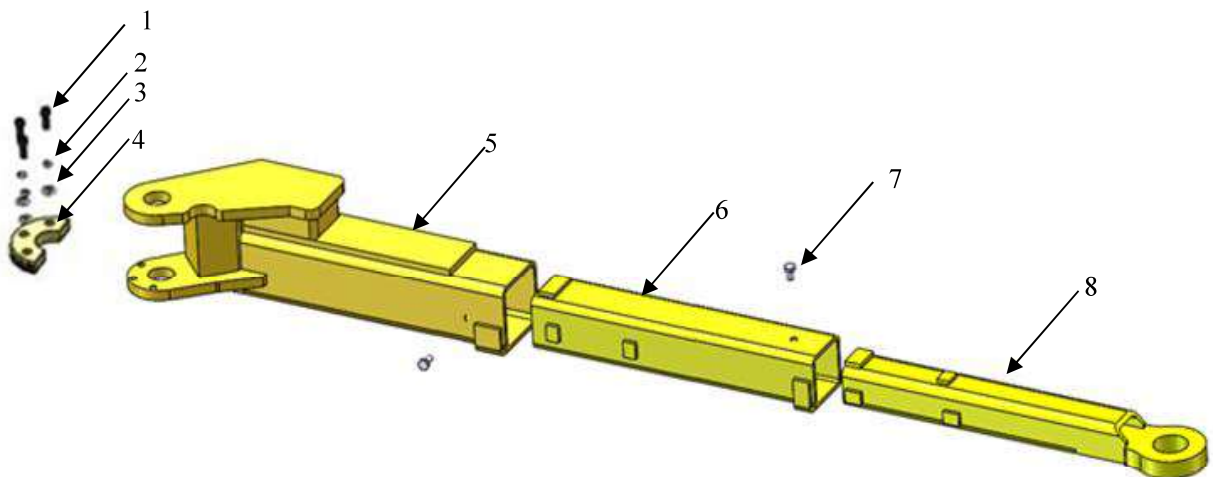
#### 4.2 Rear arm assy. (10279011) explosive view



**Fig. 43**

No	Part no	Name	QTY	No	Part no	Name	QTY
1	10206048	Hex nut	6	5	11206192	Rear outer arm	2
2	10209039	washer	6	6	10201149	Cup head bolt	2
3	10209022	washer	6	7	11206193	Rear inner arm	2
4	11206049	Moon gear	2				

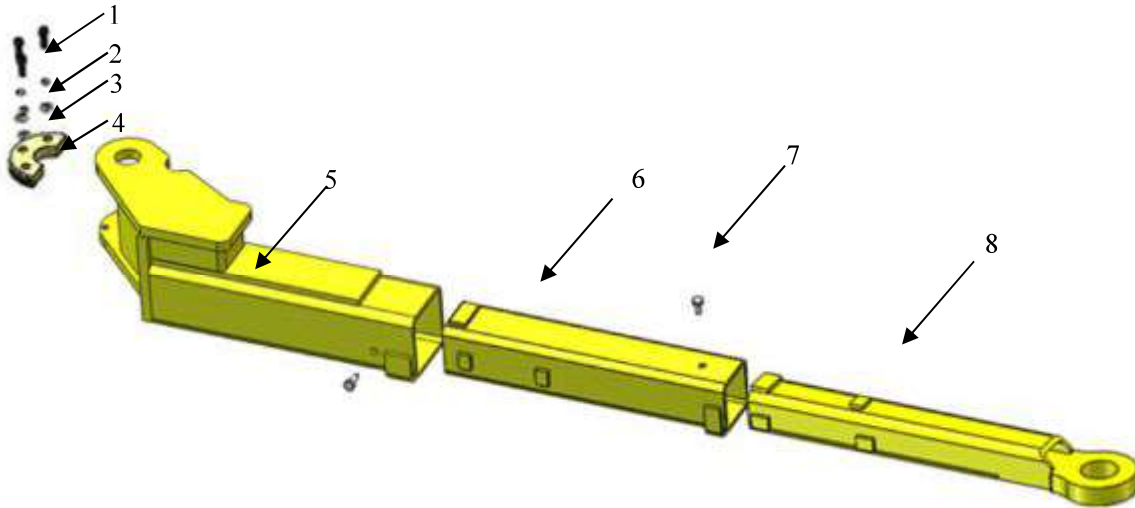
#### 4.3 Left front arm assy. (10279009) explosive view Model 210SAC



**Fig. 44**

No	Part no	Name	QTY	No	Part no	Name	QTY
1	10206048	Hex nut	3	5	11206183	Rear outer arm	1
2	10209039	washer	3	6	11206189	Front middle arm	1
3	10209022	washer	3	7	10201149	Cup head bolt	2
4	11206049	Moon gear	1	8	11201049	Front inner arm	1

**4.4 Right front arm assy. (10279010) explosive view (model 210SAC)**



**Fig. 45**

No	Part no	Name	QTY	No	Part no	Name	QTY
1	10206048	Hex nut	3	5	11206182	Front left outer arm	1
2	10209039	washer	3	6	11206189	Front middle arm	1
3	10209022	washer	3	7	10201149	Cup head bolt	2
4	11206049	Moon gear	1	8	11201049	Front inner arm	1

#### 4.5 Cylinders (10209014) explosive view

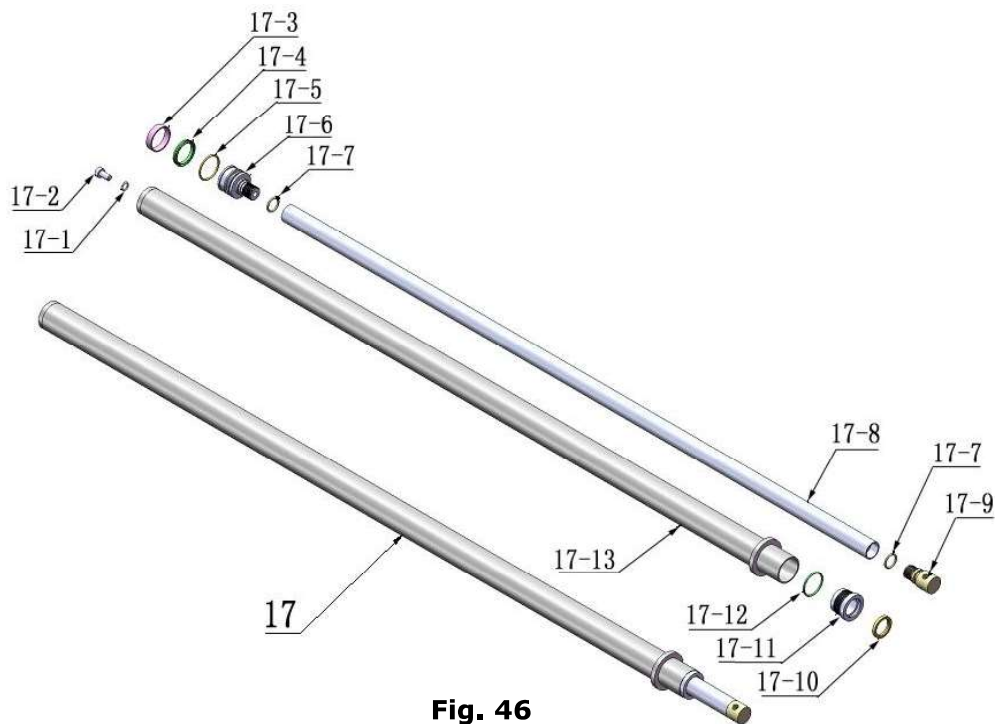


Fig. 46

#### Part list for cylinder

No	Part no	Name	QTY	No	Part no	Name	QTY
17-1	10209069	O-ring	2	17-8	11217076	Piston rod	2
17-2	10209070	Bleeding Plug	2	17-9	11209077	Piston Rod Fitting	2
17-3	10209071	Support Ring	2	17-10	10209078	Dust wing	2
17-4	10209072	Y-ring	2	17-11	11209079	cover	2
17-5	10209073	O-ring	2	17-12	10209080	O ring	2
17-6	11209074	Piston	2	17-13	11209081	Bore Weldment	2
17-7	10209075	O-Ring	4				

#### 4.6 POWER UNIT (81513001/81513002) explosive view

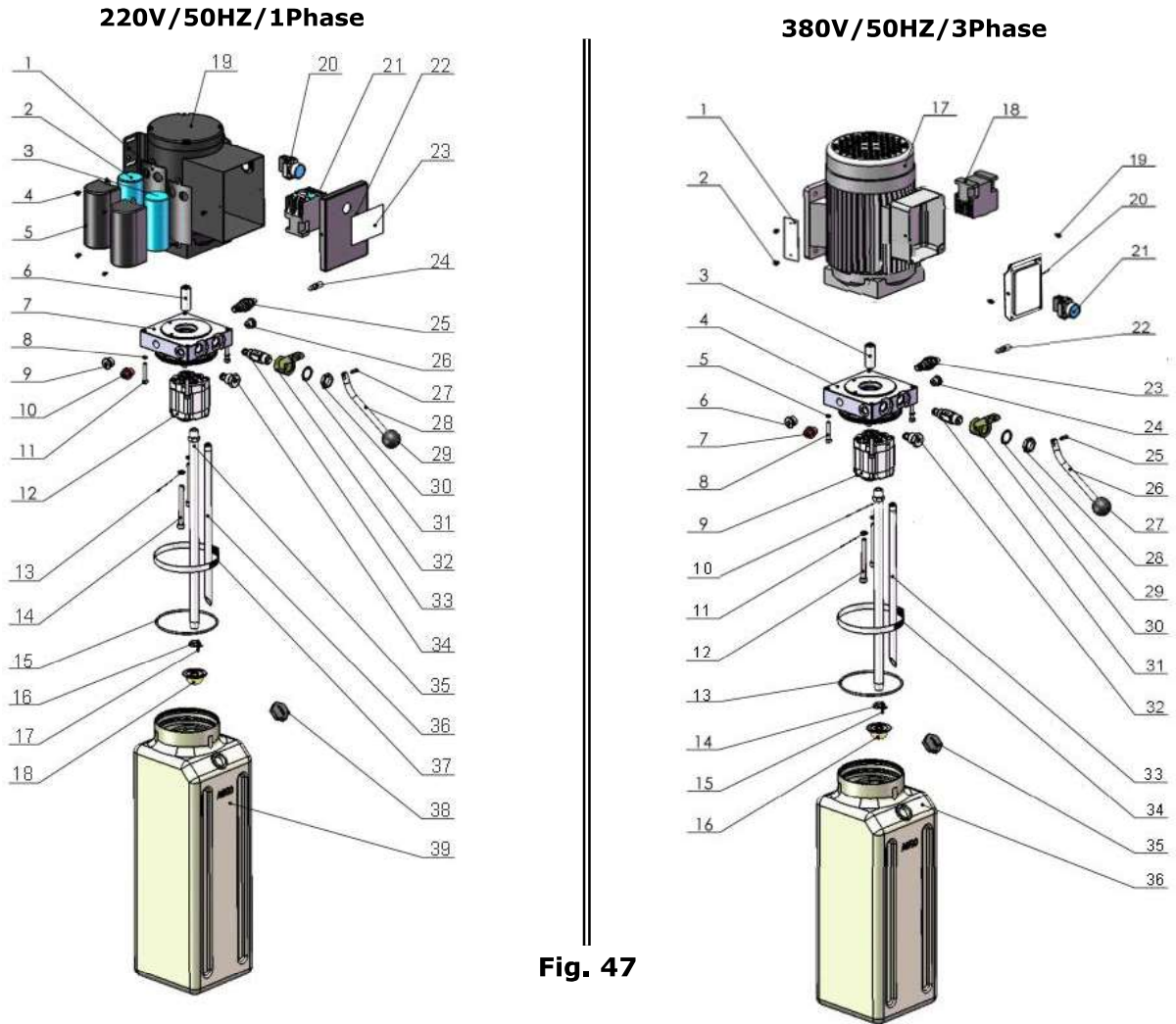


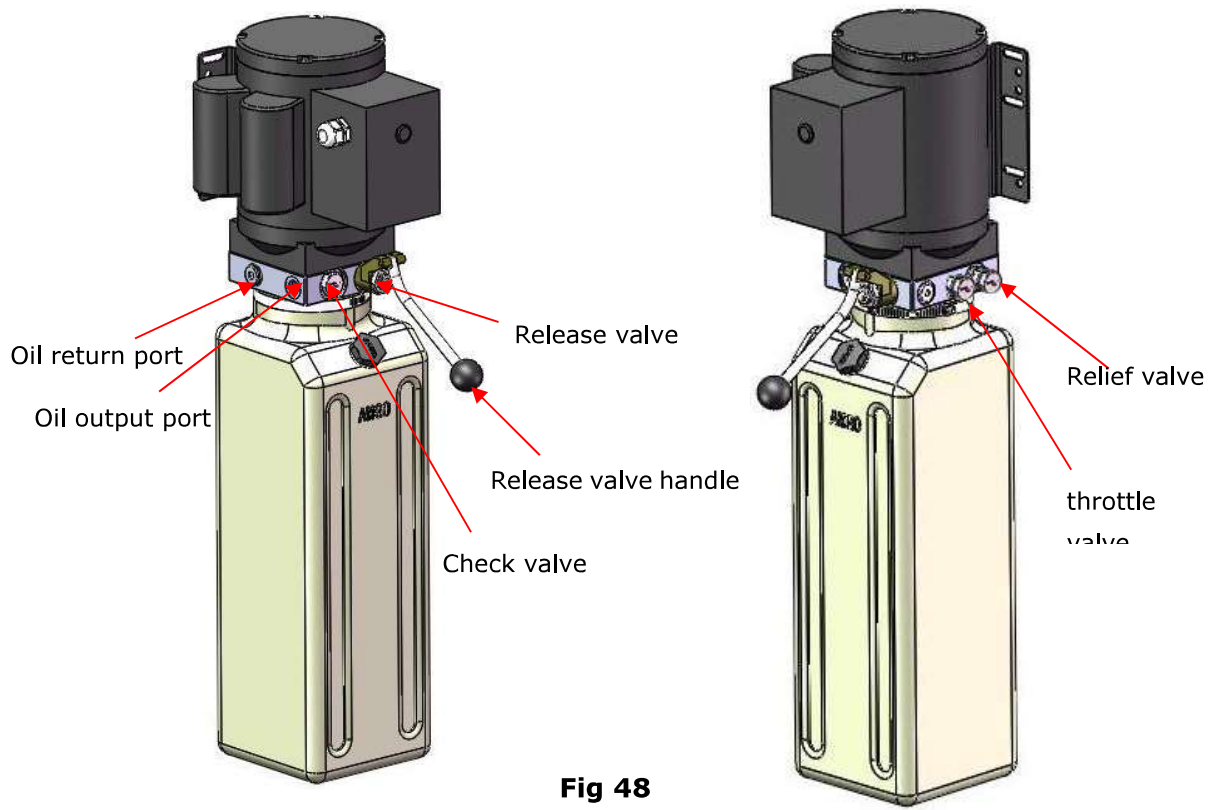
Fig. 47

**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	81400130	Starting capacitor	1	
3	81400088	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	
5	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 lable	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	

<b>Parts for Manual Power Unit 380V/50Hz/3 phase</b>				
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 screw	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

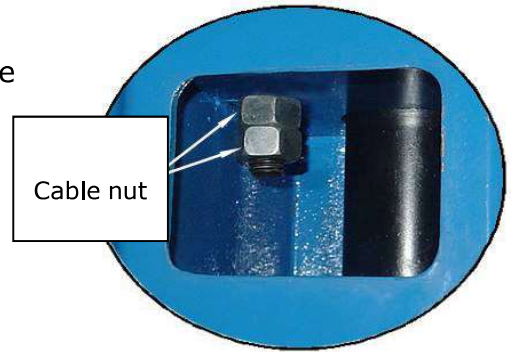
### 1. Adjust synchronous cable (See Fig. 49)

Use wrench to hold the cable fitting, meanwhile use ratchet spanner to tighten the cable nut.

Make sure two cables are with the same tension so that two carriages can work synchronously.

Fit the plastic hole cover on the lifting carriages.

**If the carriages do not synchronize when lifting, Please tighten the cable nut of lower side carriage.**



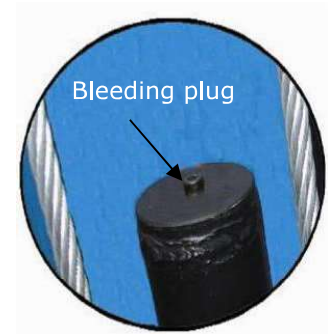
**Fig. 49**

### 2. Adjust safety cable

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

### 3. Bleeding air

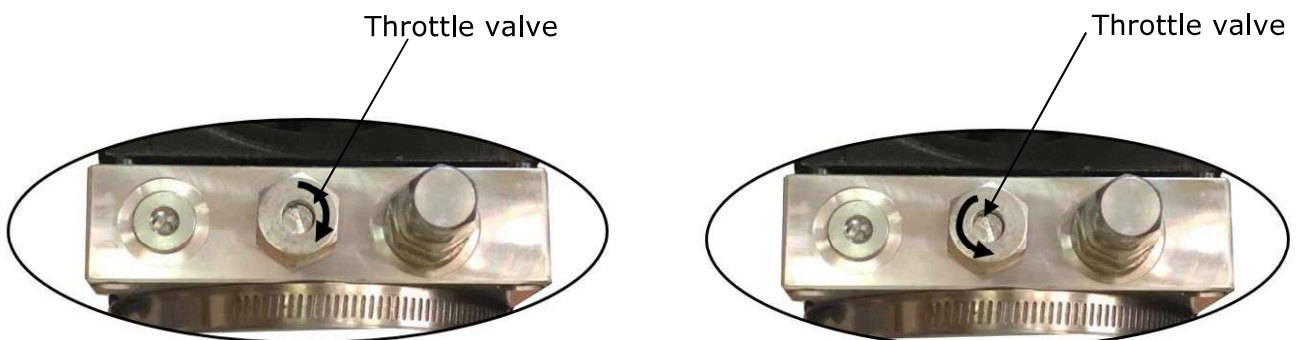
This hydraulic system is designed to bleeding air by loosen the bleeding plug. Lifting the carriages to about 1 meter height, and loose the bleeding plug, the air would be bled automatically, then tighten the plug after bleeding, the lift would work stably and smoothly, otherwise repeat bleeding (See Fig. 50).



**Fig. 50**

### 4. Adjust the lower speed

You can adjust the lower speed of the lift if needing: Turn the Throttle Valve in clockwise direction to decrease the lower speed, or increase the speed in counterclockwise direction.



Clockwise to decrease the down speed

Counterclockwise to decrease the down speed

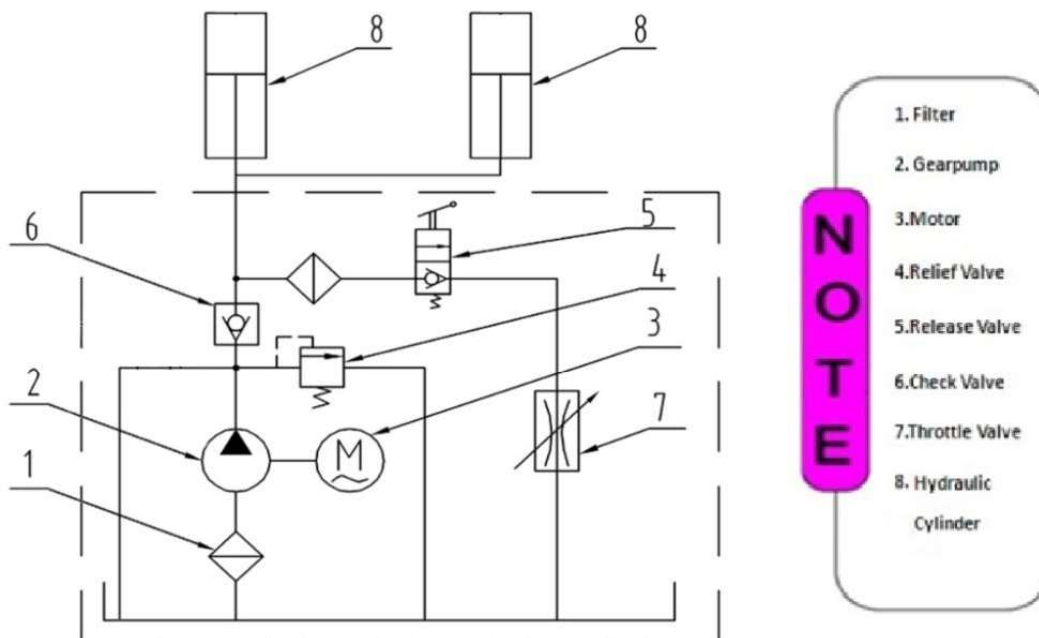
**Fig.51**



## 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**

## **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.

**VIII.TROUBLE SHOOTING**

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

**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.



Classic Lift Australia.  
[classiclift.com.au](http://classiclift.com.au)  
1800 951022.