



Original

Installation And Service Manual



**Two-post lift
Model: A268C**

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I. PRODUCT FEATURES AND SPECIFICATIONS

Clear-floor Direct-driven TWO POST LIFT Model A268C (See Fig.1)

- Direct-driven design, minimize the lift wear parts and breakdown ratio
- Dual hydraulic cylinders manufactured on USA standards, utilizing imported seals
- 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



Fig. 1

SPECIFICATIONS

Model	Lifting Capacit	Lifting Height	Lifting Time	Overall Height	Overall Width	Minimum Pad	Motor
A268C	6800KG	1892~2180mm	72s	4420/5029mm	3829mm	165mm	4.0HP

Arm Swings View

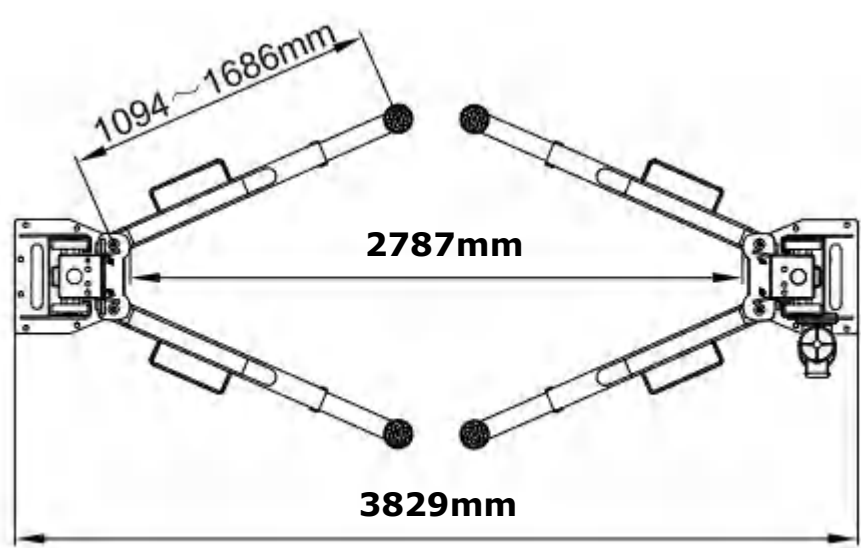


Fig. 2

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#, 30#)



- ✓ Carpenter's Chalk



- ✓ Screw Sets



- ✓ Tape Measure (7.5m)



- ✓ Pliers



- ✓ Socket Head Wrench
(3#, 5#, 8#)



- ✓ Lock Wrench



Fig. 3

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.

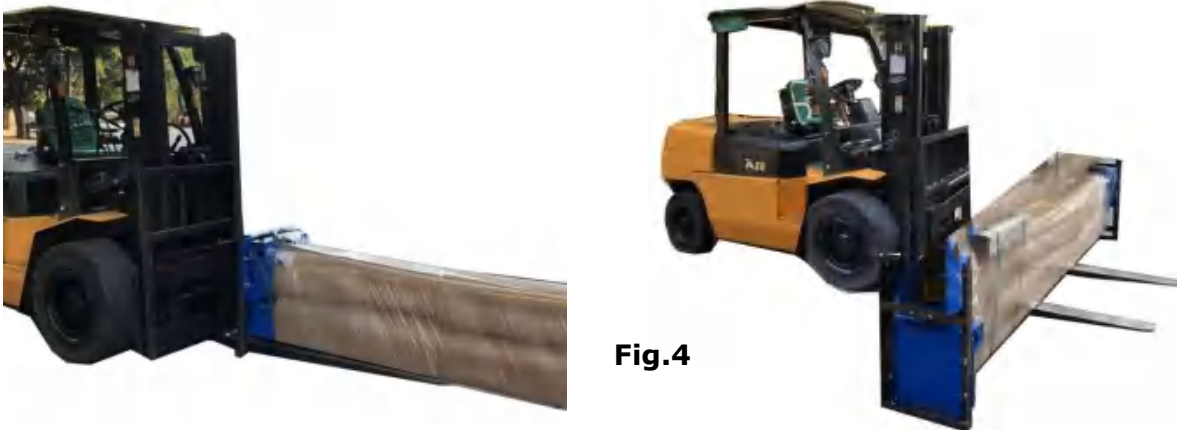


Fig.4

D. SPECIFICATIONS OF CONCRETE (See Fig. 5)

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 120mm minimum and without reinforcing steel bars, and must be totally dry before lift installation.
2. Concrete must be in good condition and must be of test strength 3,500psi (245kg/cm²) minimum.
3. Floors must be level with no cracks or holes.

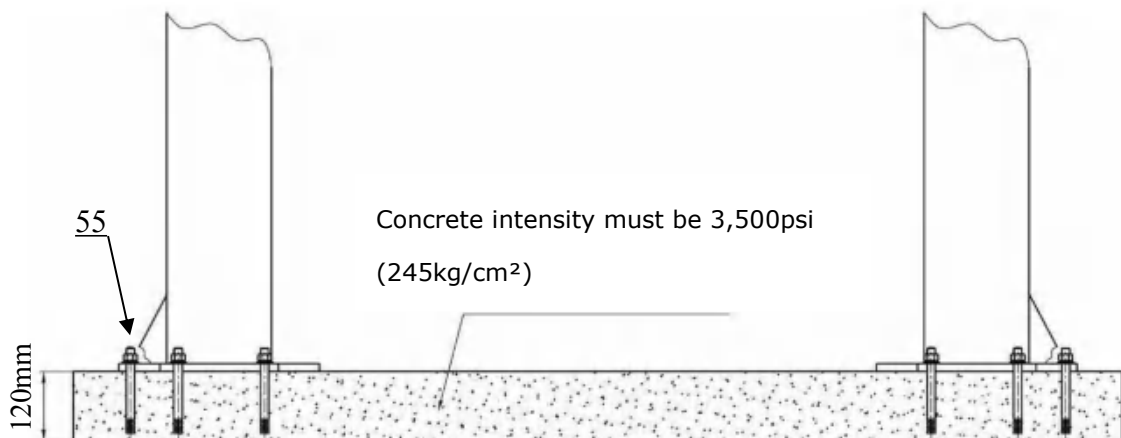


Fig. 5

E. POWER SUPPLY

The electrical source must be 3KW 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 baseplate (See Fig. 6).

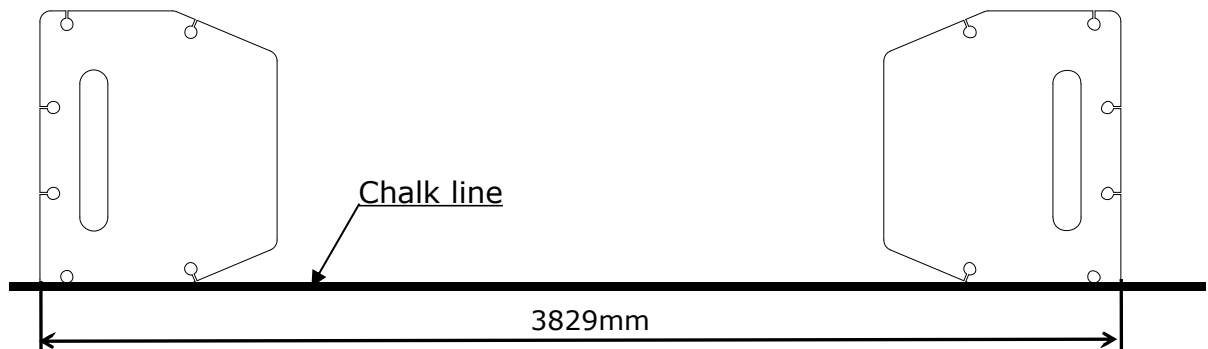


Fig. 6

C. Check the parts before assembly.

1. Packaged lift and hydraulic power unit (See Fig. 7).



Fig. 7

2. Move the lift aside with fork lift or hoist, and open the outer packing carefully (See Fig. 8).

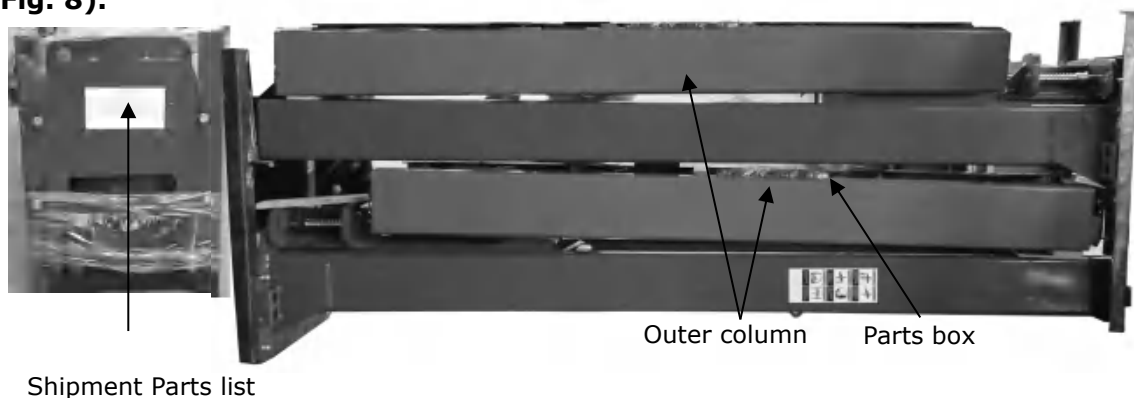


Fig. 8

3. Take out 2pcs outer column, then place the inner column to the installation location.



Fig. 9

4. Lift the upper column with a fork lift or hoist, loose the bolts of the upper package stand, then take out the parts in the inner column (**See Fig. 10**).

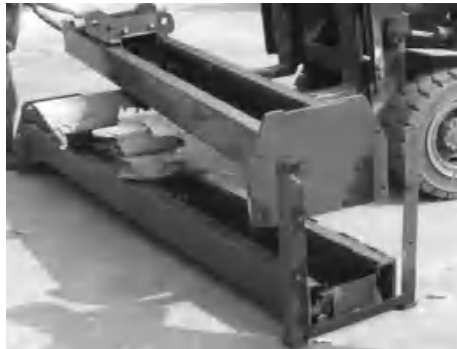


Fig. 10

5. Lift the lower column with a fork lift or hoist, take away the package stand, then take off the lower outer column, take out the parts in the inner column (**See Fig. 11**).

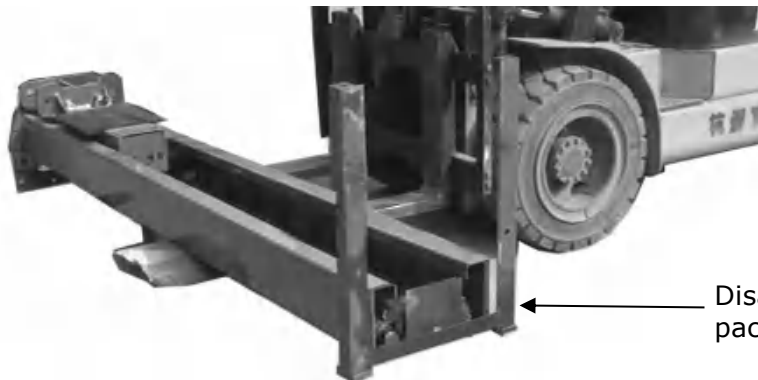


Fig. 11

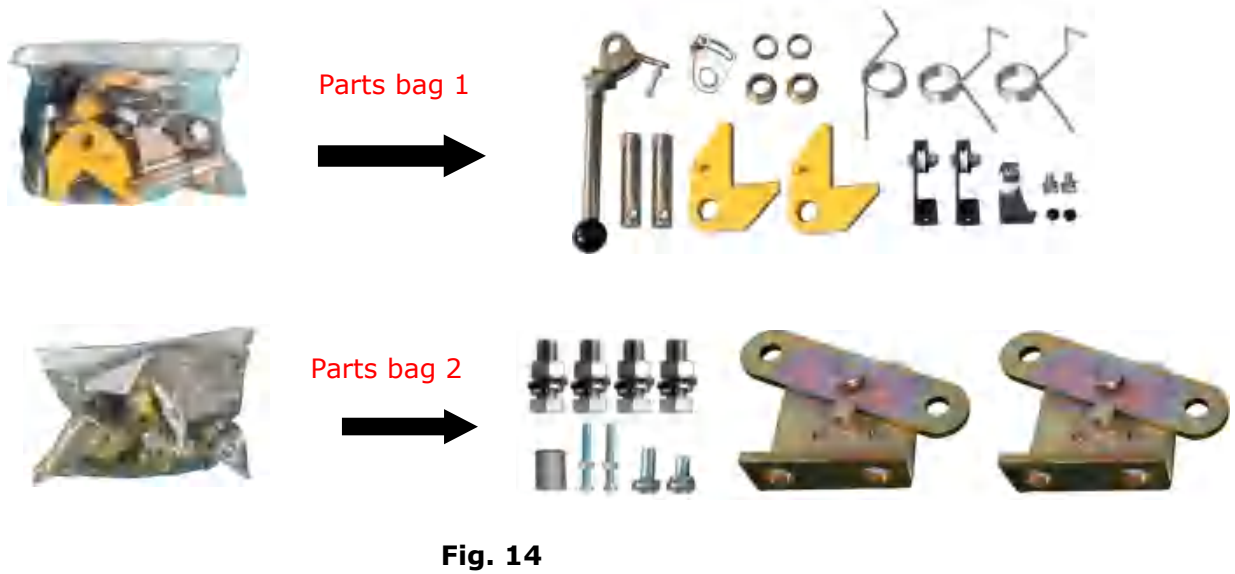
6. Move aside the parts and check the parts according to the shipment parts list (**See Fig. 12, Fig. 12**).



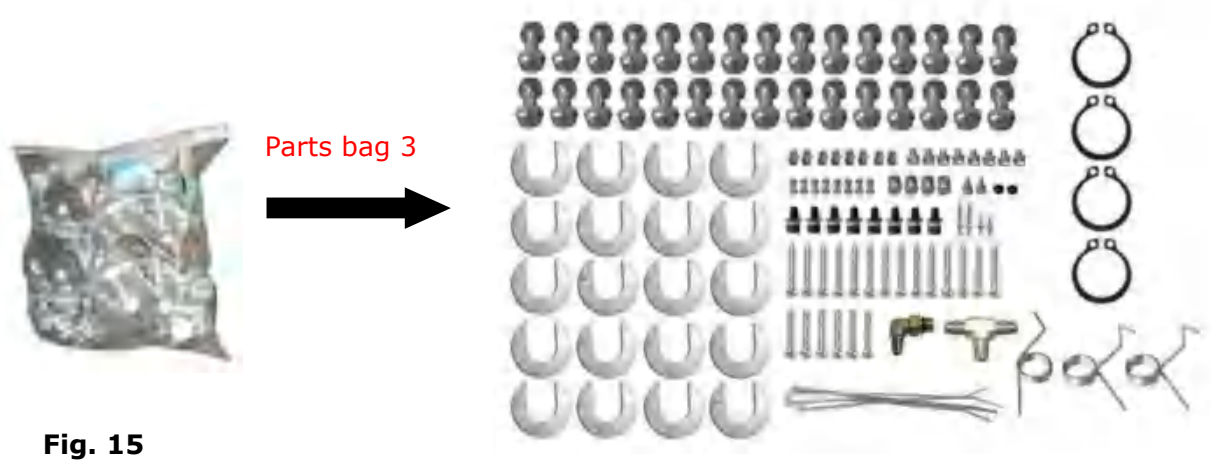
**Shipment Parts list
Fig. 12**



6. Check the parts of the parts bag 1 & 2 according to parts bag list (See Fig. 14).



7. Check the parts of the parts bag 3[#] according to parts bag list (See Fig. 15).



D. Install parts of extension columns(See Fig. 16).

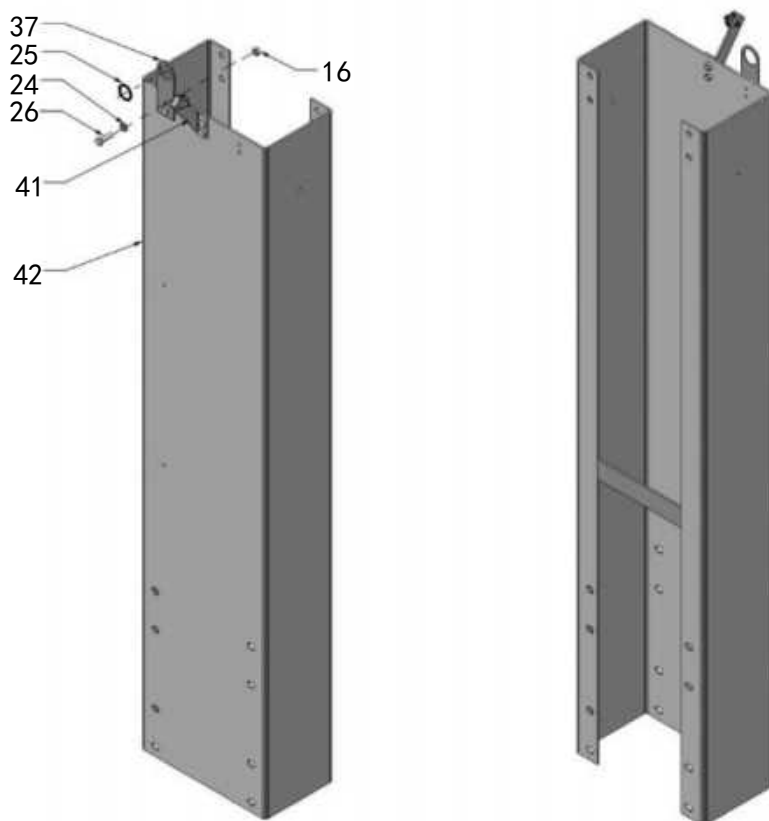


Fig. 16

E.Install hydraulic cylinder

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 side of vehicles driven-in, and then put the cylinder into the carriages. (See Fig. 17).

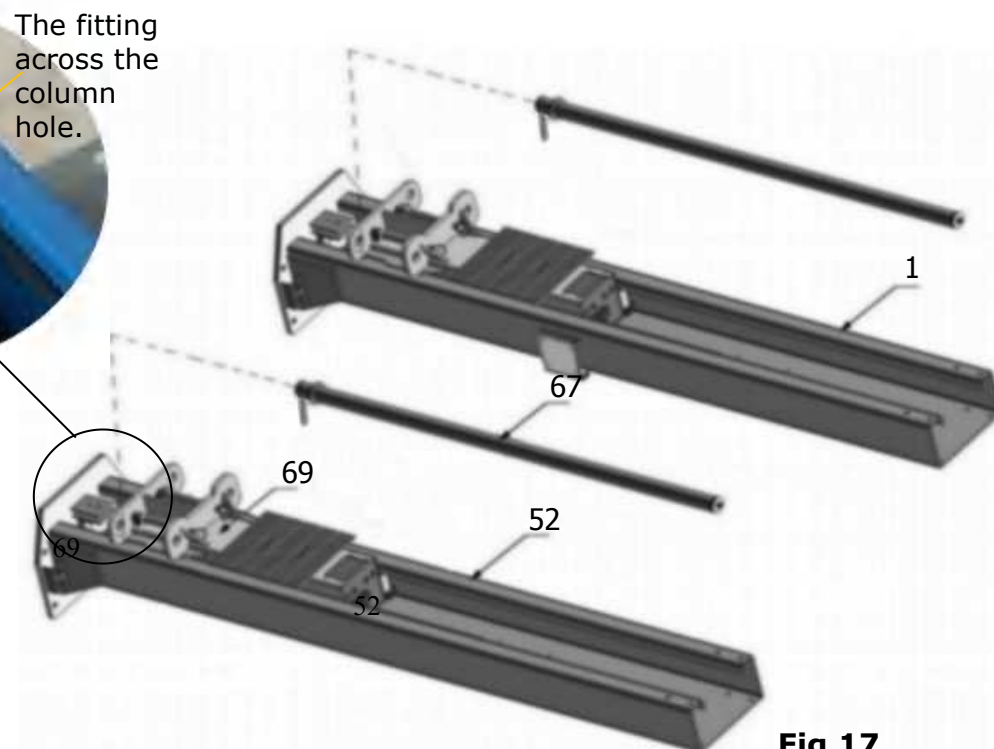


Fig.17

F. Install columns

This lift is designed with 2-Section columns. Adjustable height according to the ceiling height and connecting the inner and outer columns.

If the ceiling height is over 5035mm, it can be installed in a high setting; if the ceiling height between 4430mm-5035mm, it can be installed in the low setting; it is not allowed to install if the ceiling height less than 4430mm.

1. High Setting, connecting the outer columns with the lower hole (**See Fig. 18**).

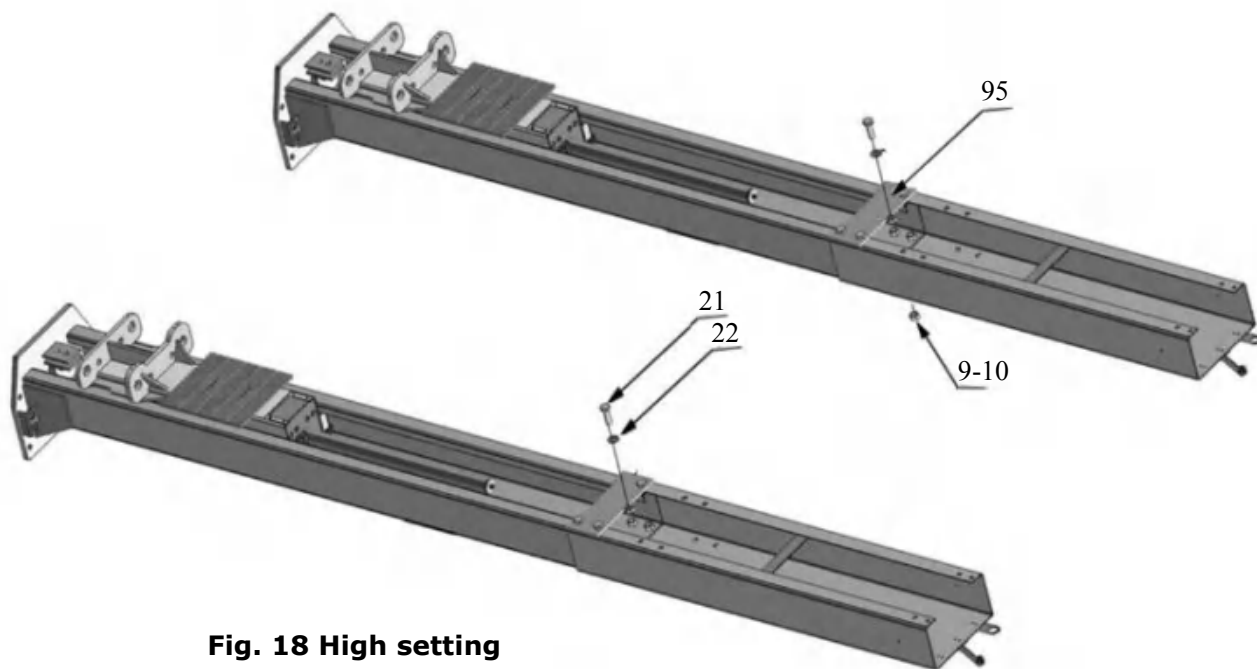
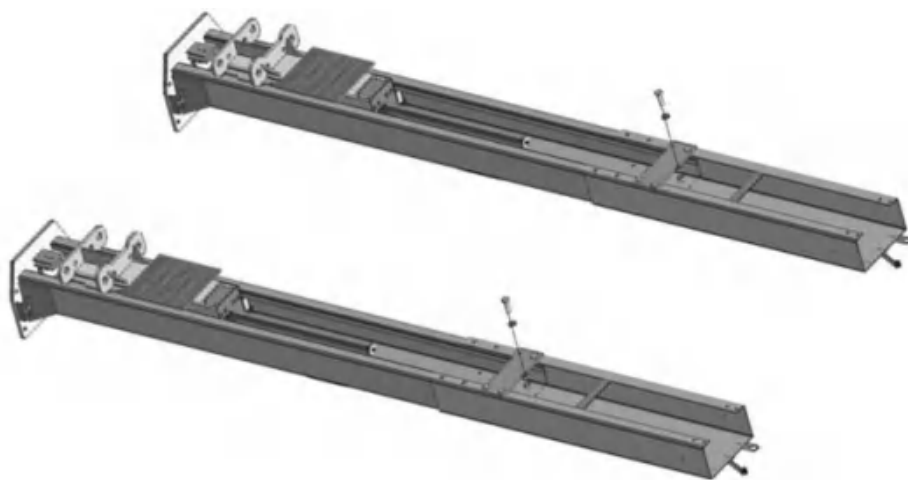


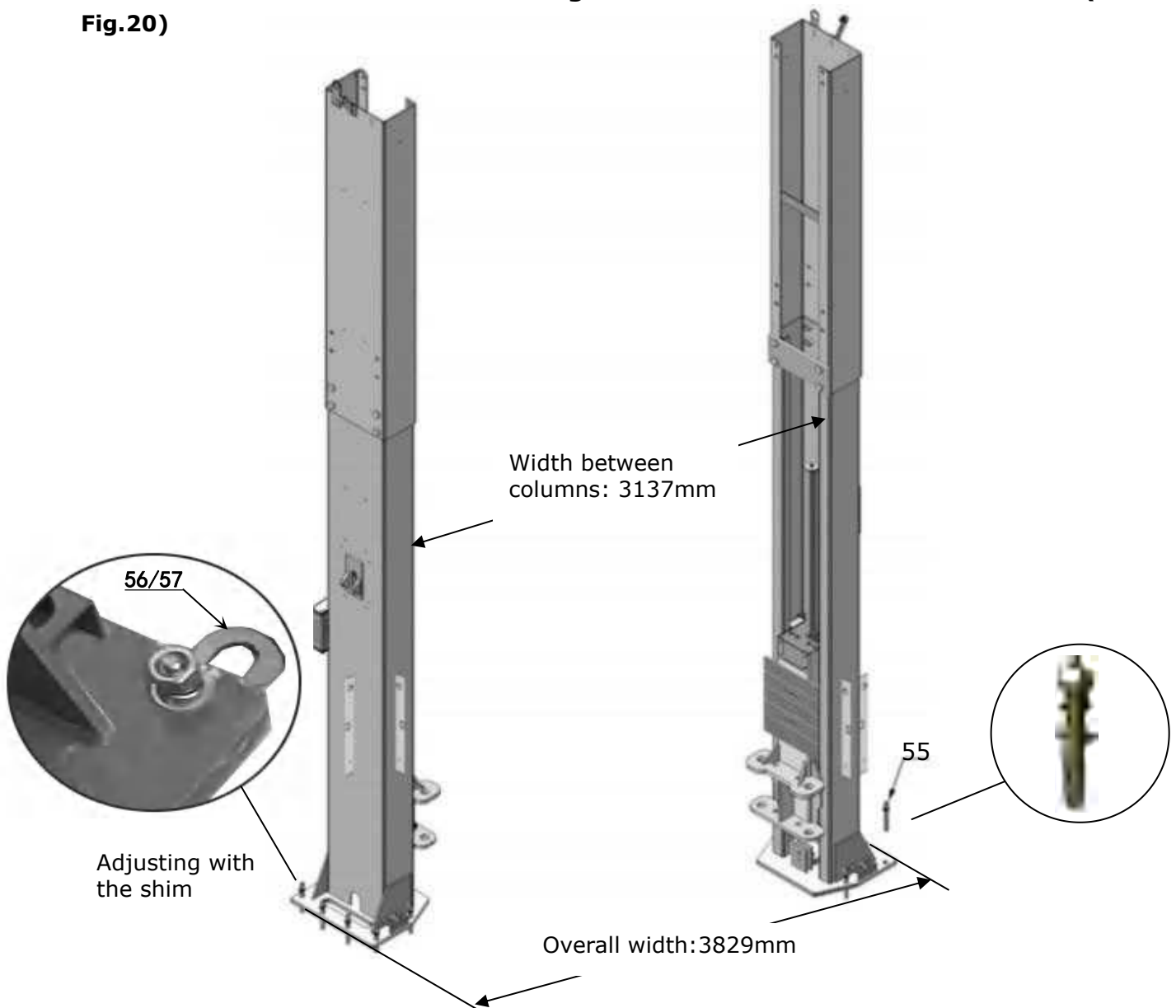
Fig. 18 High setting

2. Low Setting: connecting the extension columns with the upper hole (**See Fig.19**).



**Low setting
Fig. 19**

G. Install anchor bolts. Position the columns on the installation layout. Check the columns verticality with level bar, and adjusting with the shim if the columns are not vertical. Do not tighten the anchor bolts at this time. (See Fig.20)



Note: Minimum embedment of anchors is 110mm.



Fig. 20

H. Install overhead top beam

1. With help of the hook of top beam, put one side of top beam on top of the extension column and connecting the top beam to extension column by bolts, tighten the bolts. Then assemble the connecting bracket (**See Fig. 21**).

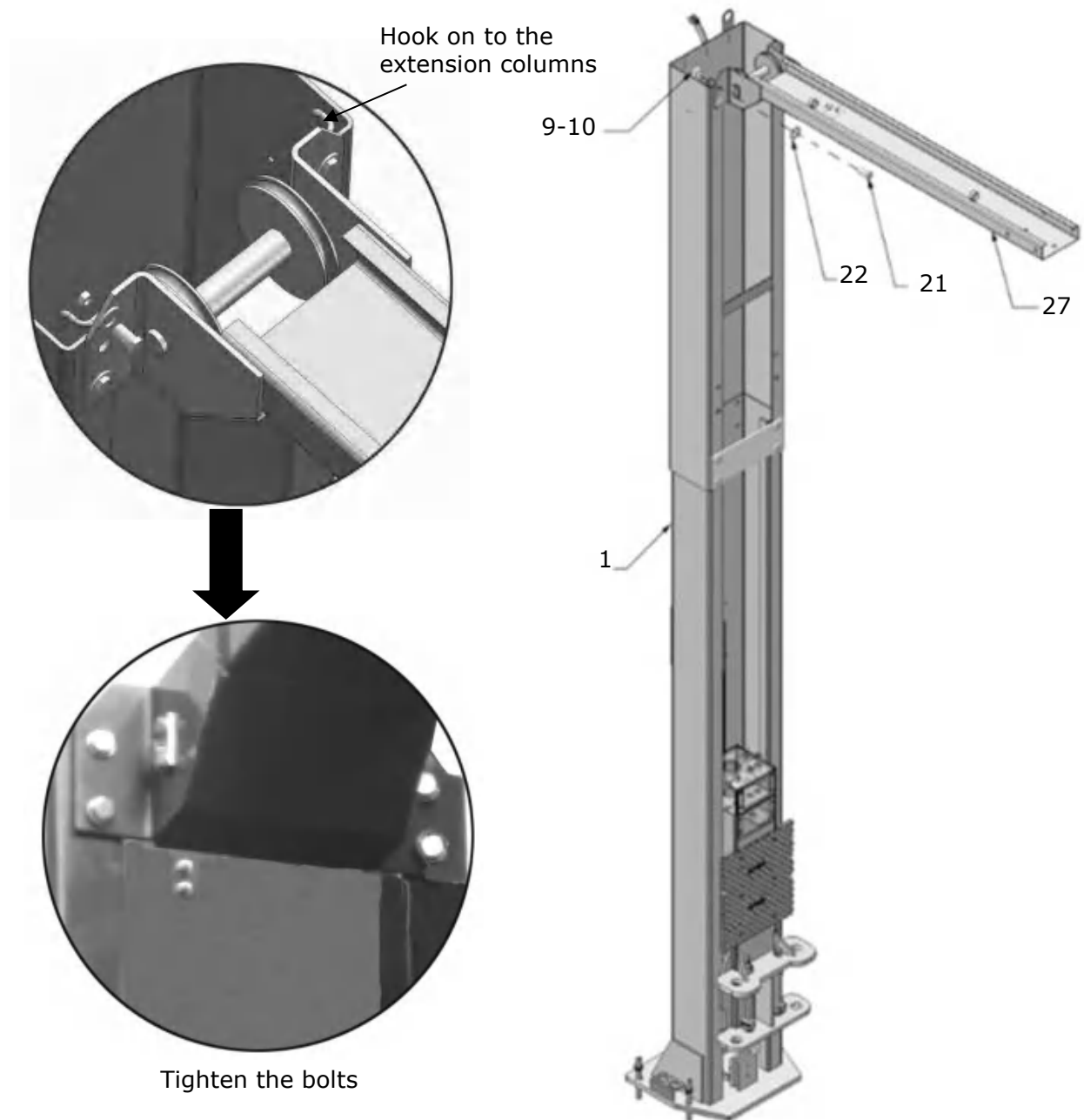


Fig. 21

2. Assemble overhead top beam, tighten the columns anchor bolts (**See Fig. 22**).

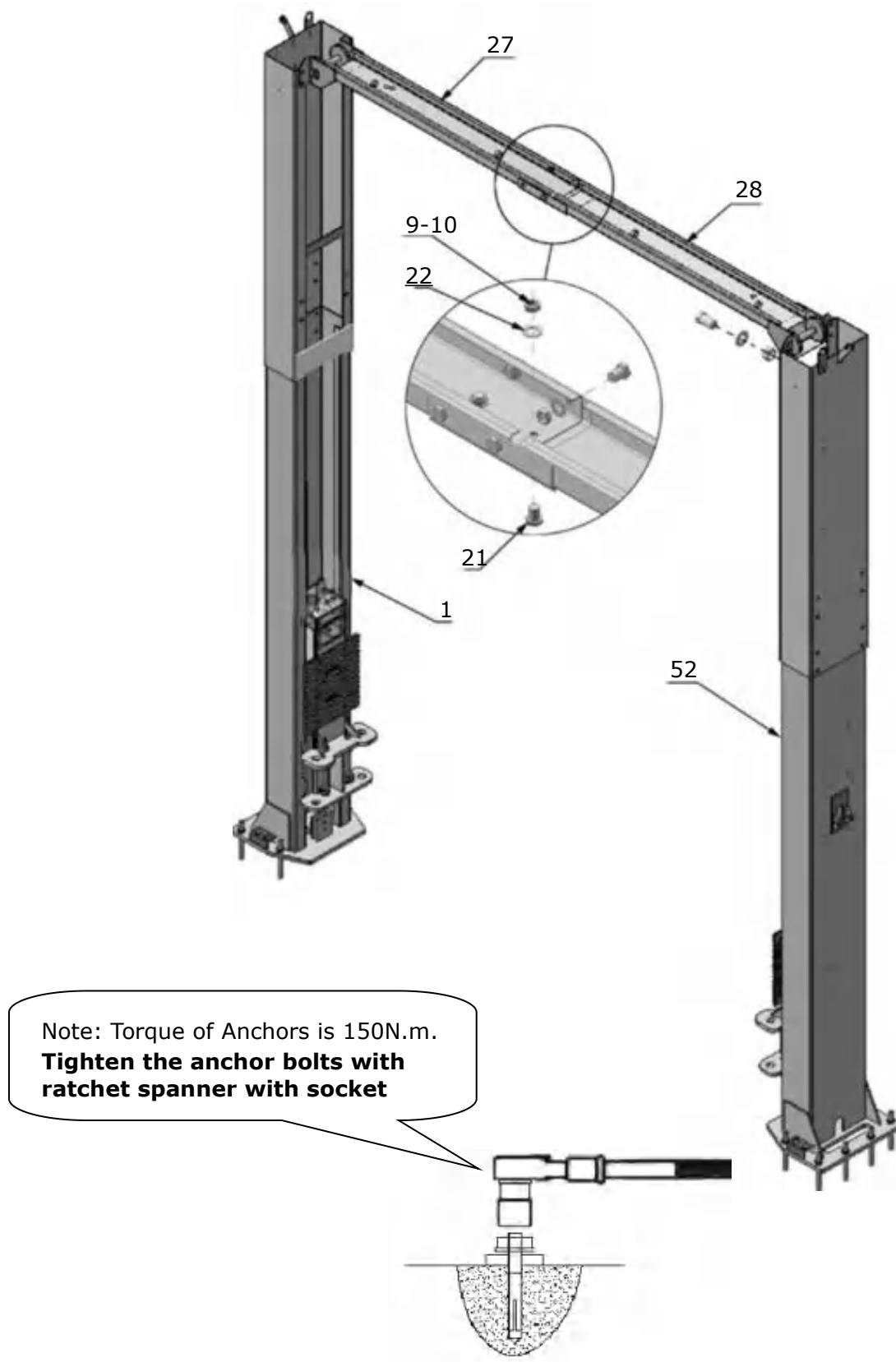


Fig. 22

I. Installing the limit switch control bar and limit switch (See Fig. 23).

1. Fix the control bar to the support bracket.

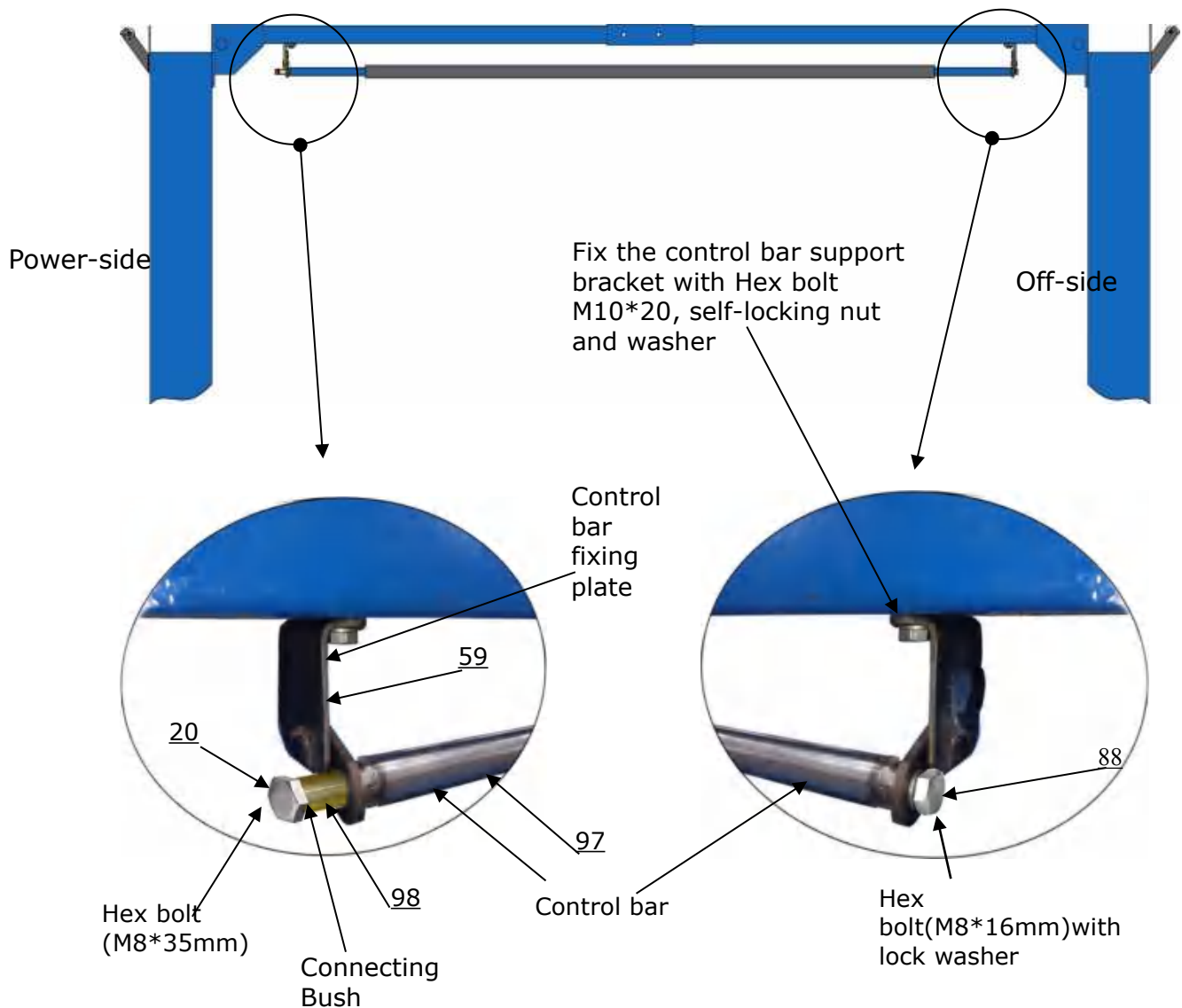


Fig. 23

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.

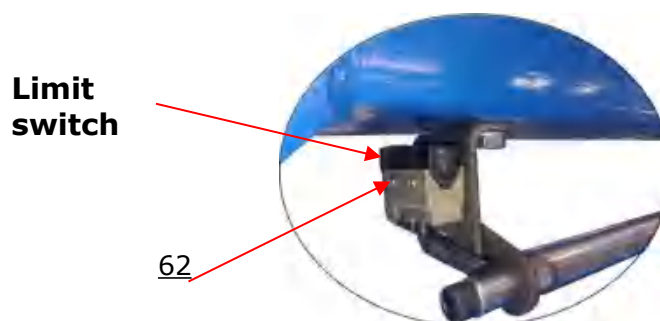
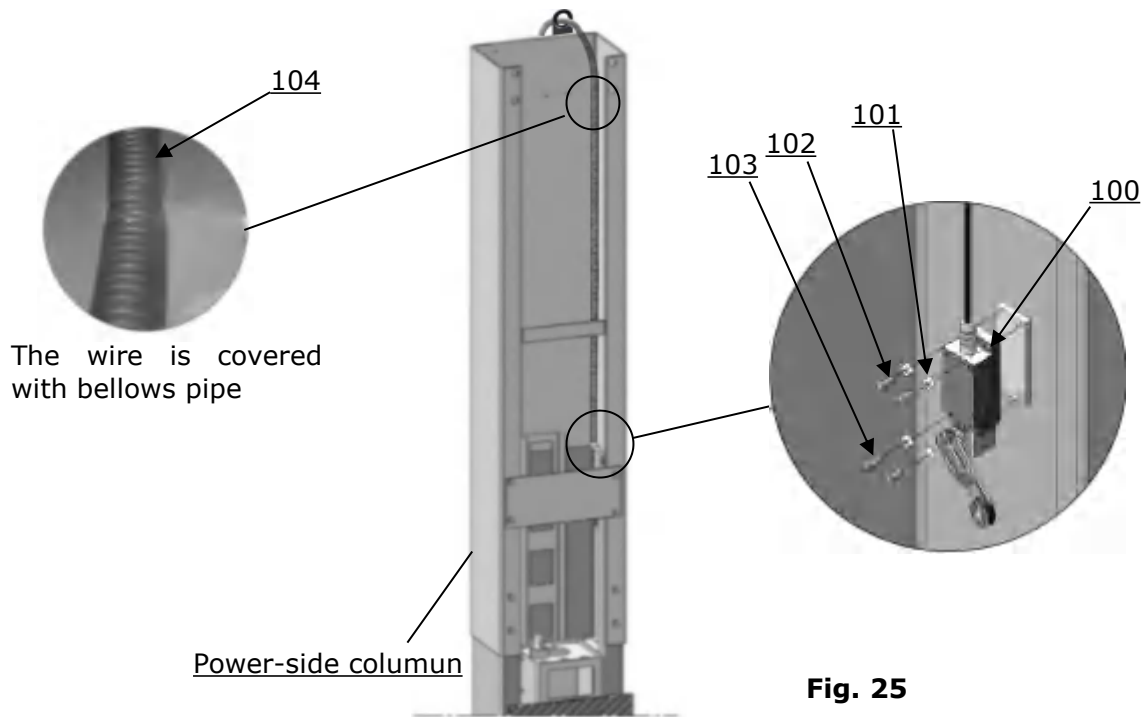


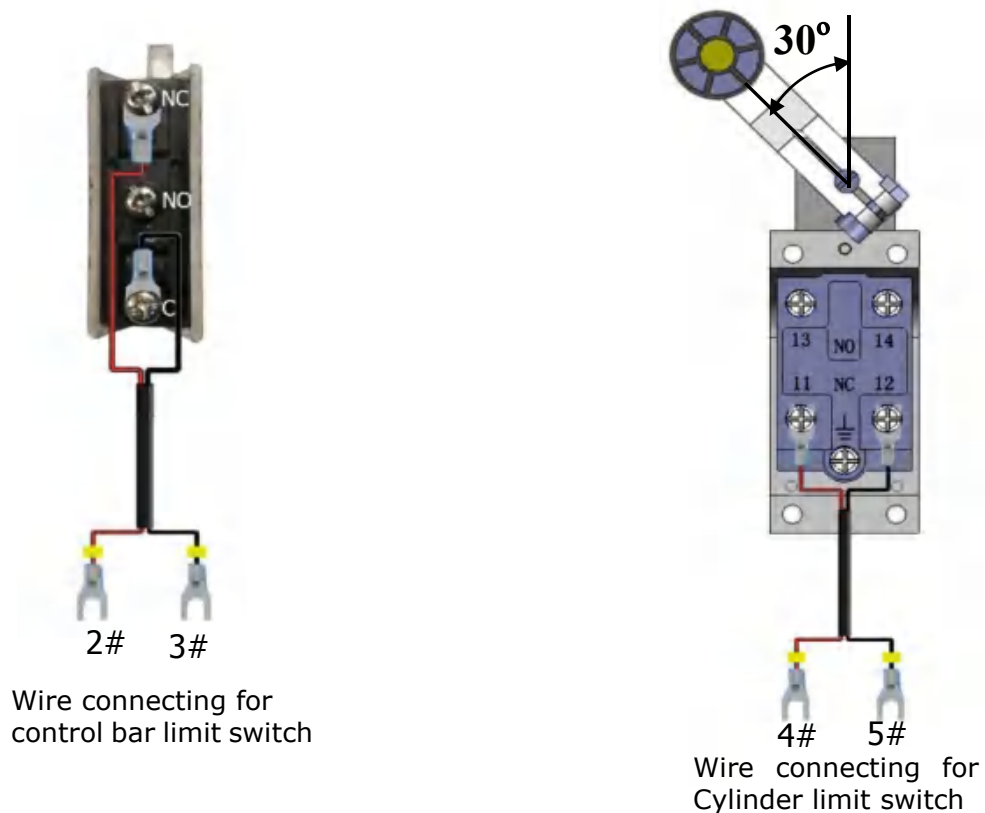
Fig. 24

3. Fix Limit switch for cylinder

Fix limit switch on mounting plate as show. The wire is covered with bellows pipe and it is connected to the electrical control box from the tubing support plate on the top of the column through along the back of the column.



4. Connect the wire of the limit switch to the terminal block as show. Control bar limit switch is connected to terminal 2#, 3#, cylinder limit switch is connected to terminal 4#, 5#.



J. Install safety device (See Fig. 27 & 28).

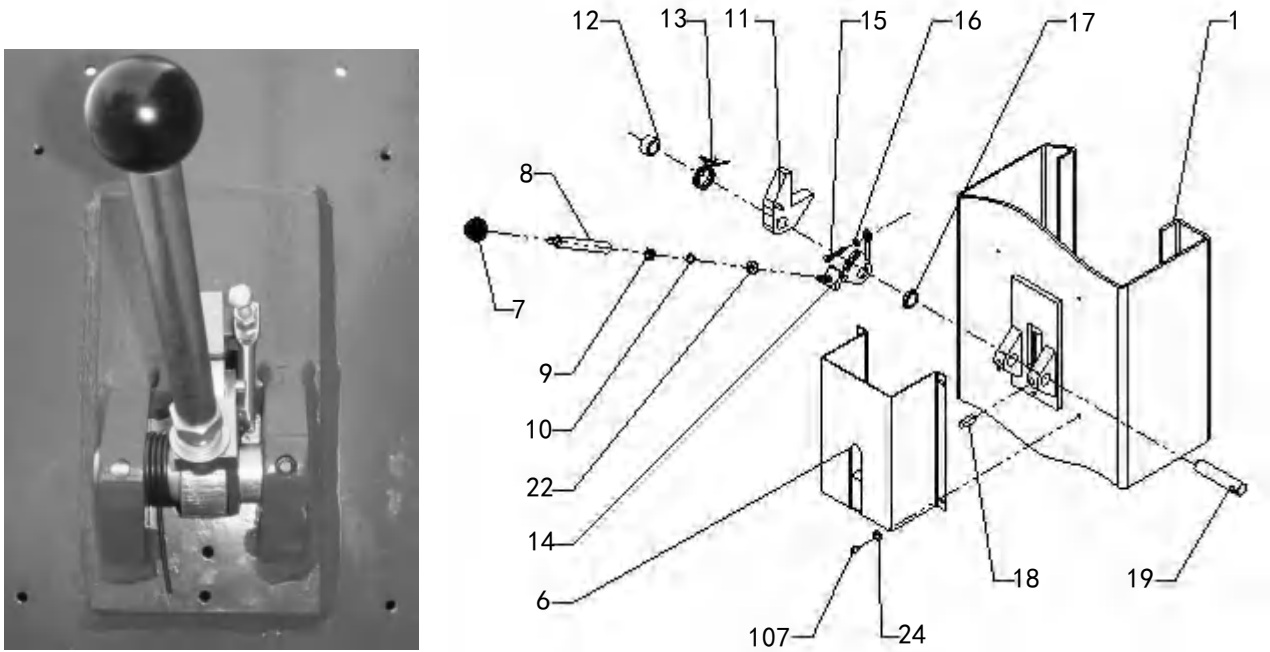


Fig. 27 Power-side safety device

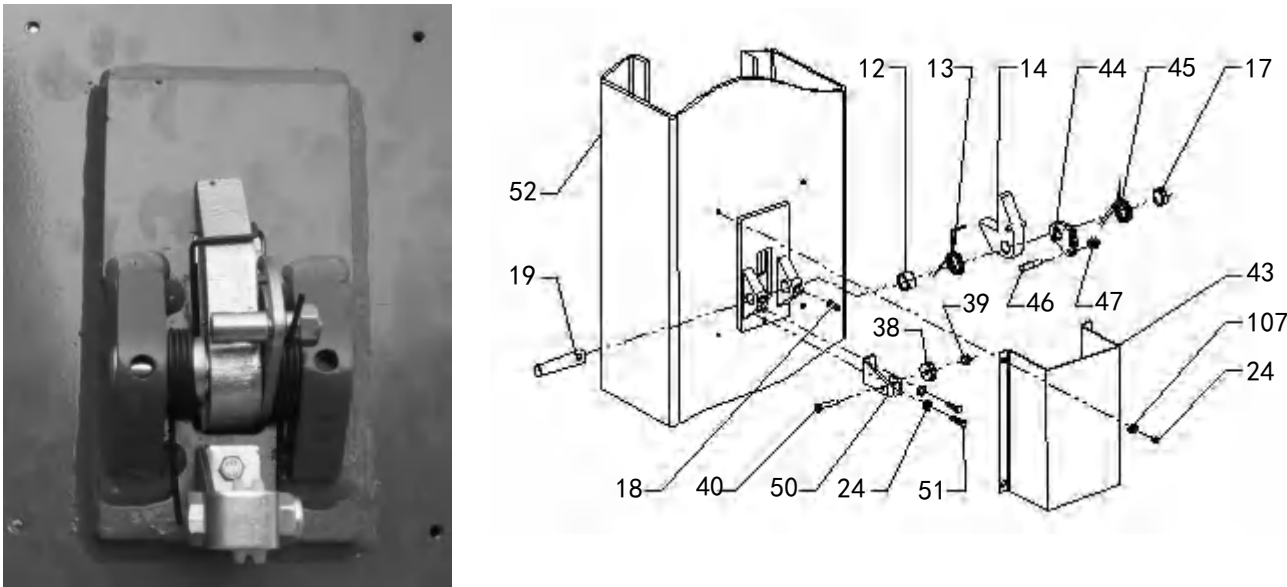


Fig. 28 Offside safety device

K. Install cables

Raise both two carriages to the same level of lock.

1. High setting cable connection.

- 1.1 Take out the carriages plastic cover, cable pass through from the bottom of the carriages and be pulled out from the open of carriages, then screw the two cable nuts (See Fig. 29).

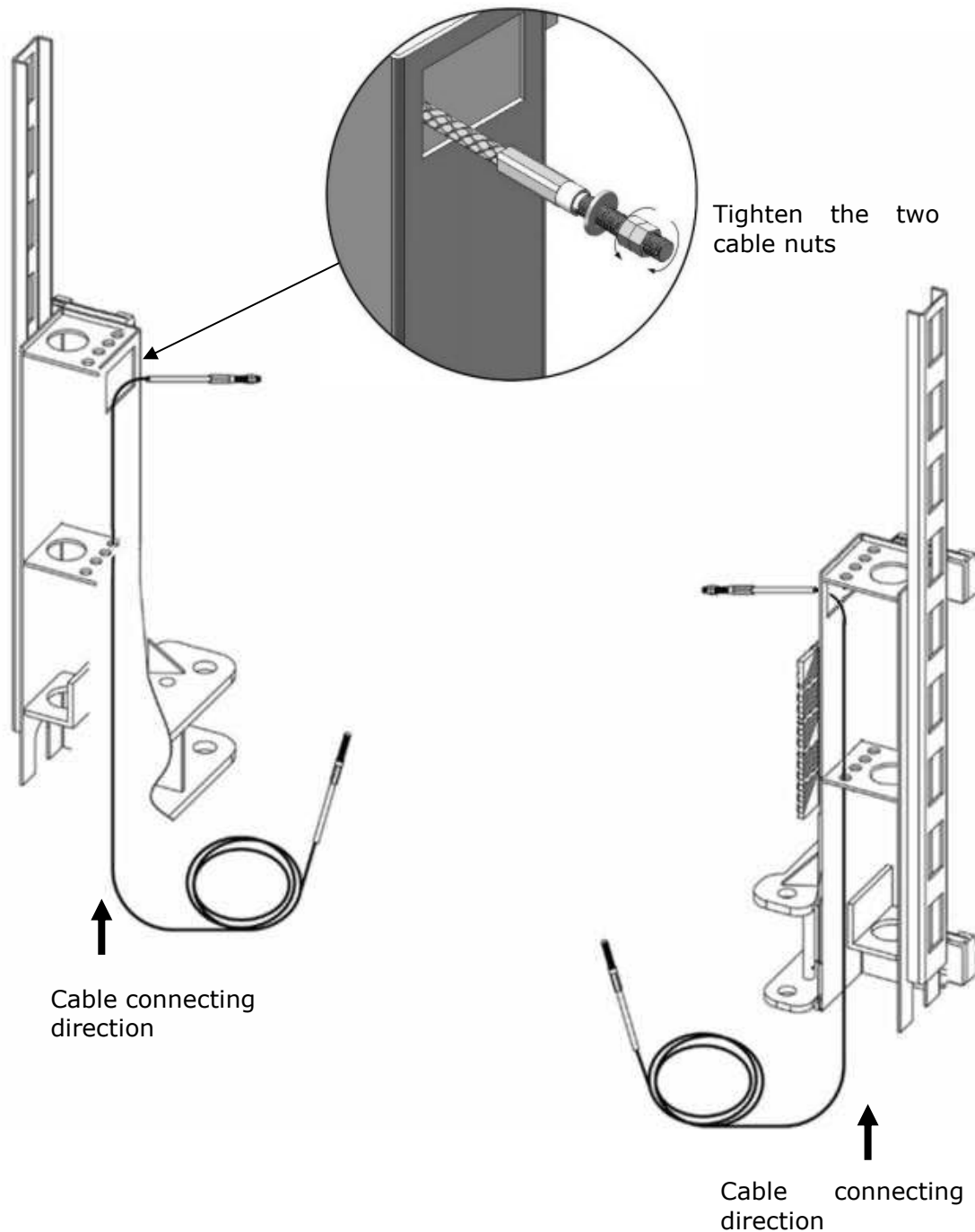


Fig. 29

1.2 Connecting cable for high setting (**See Fig. 30**)

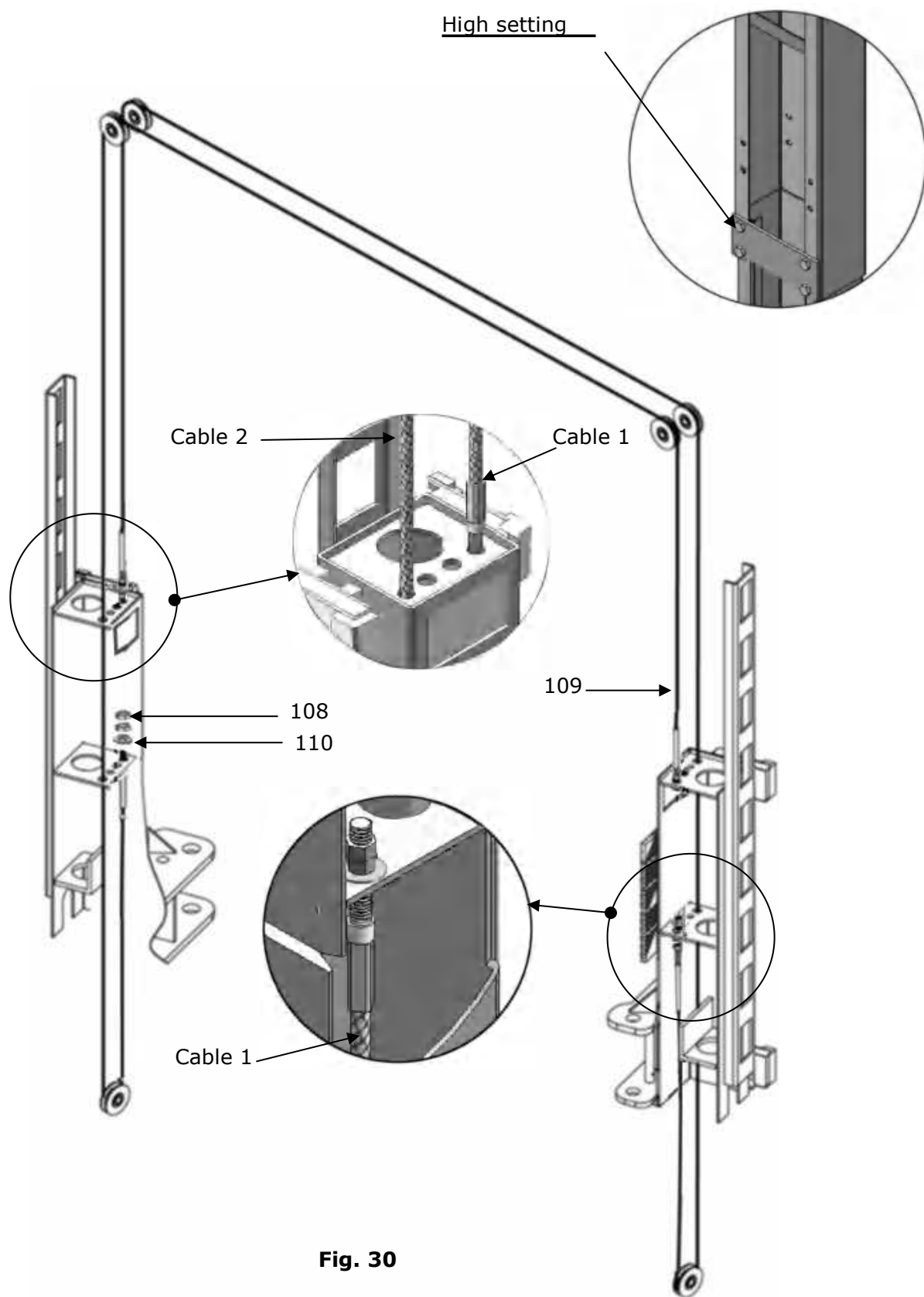


Fig. 30

2. Low setting cable connection(See Fig. 31)

Note: Cable should go inside of the carriage

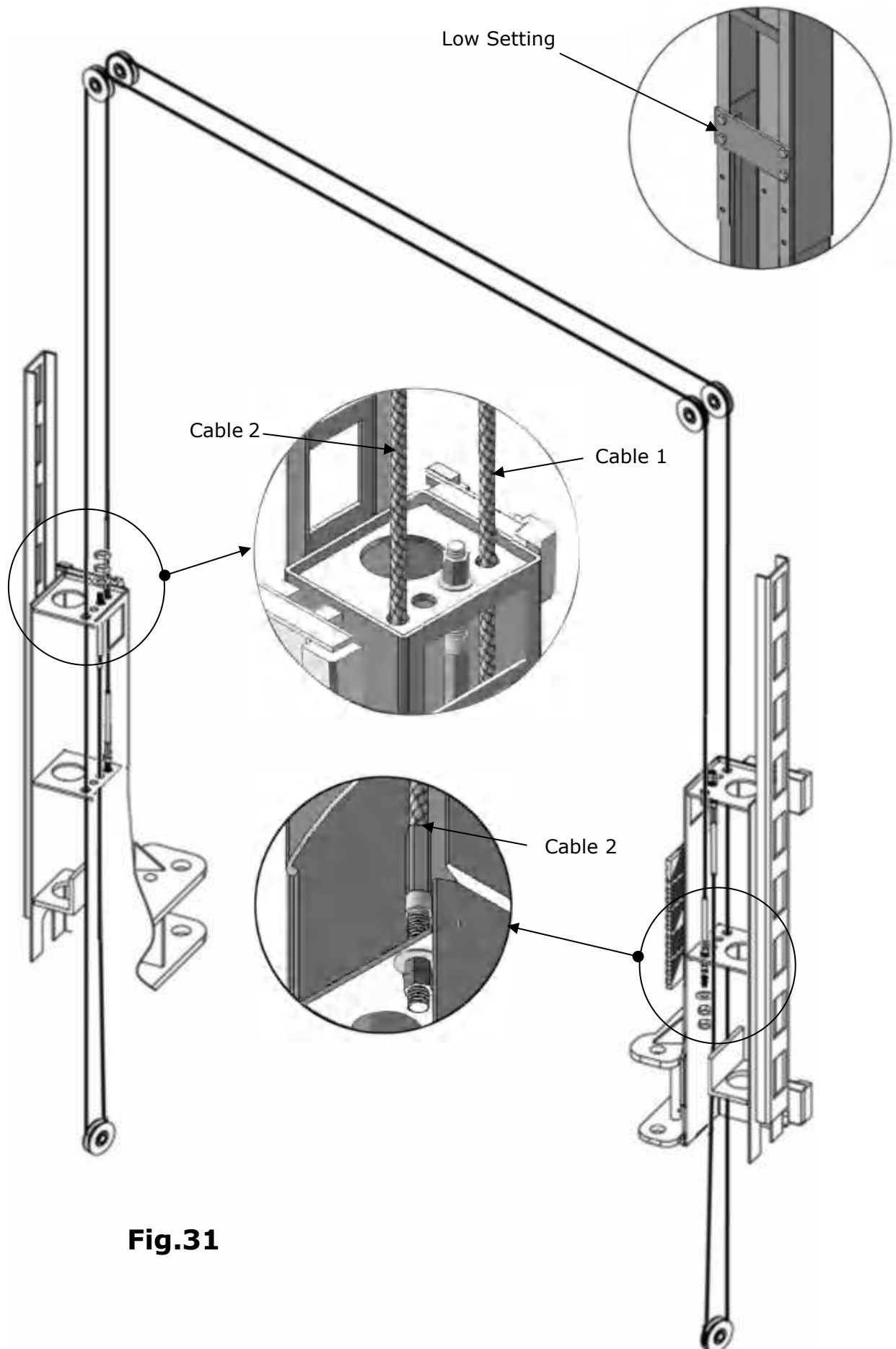


Fig.31

L. Install power unit (See Fig. 32)

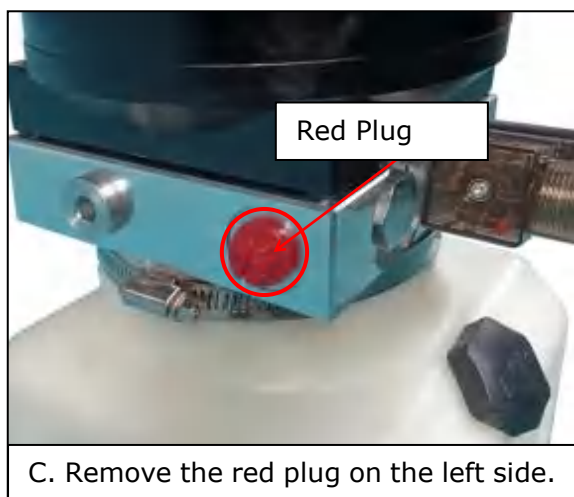
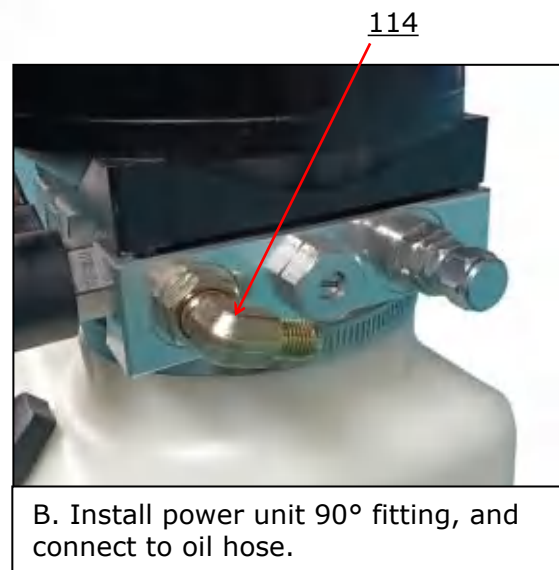
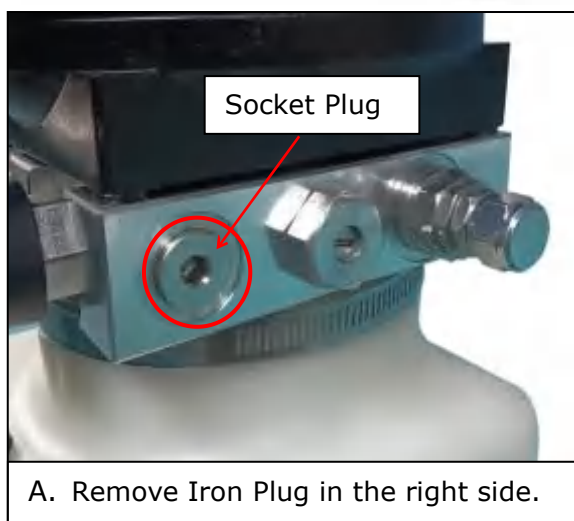
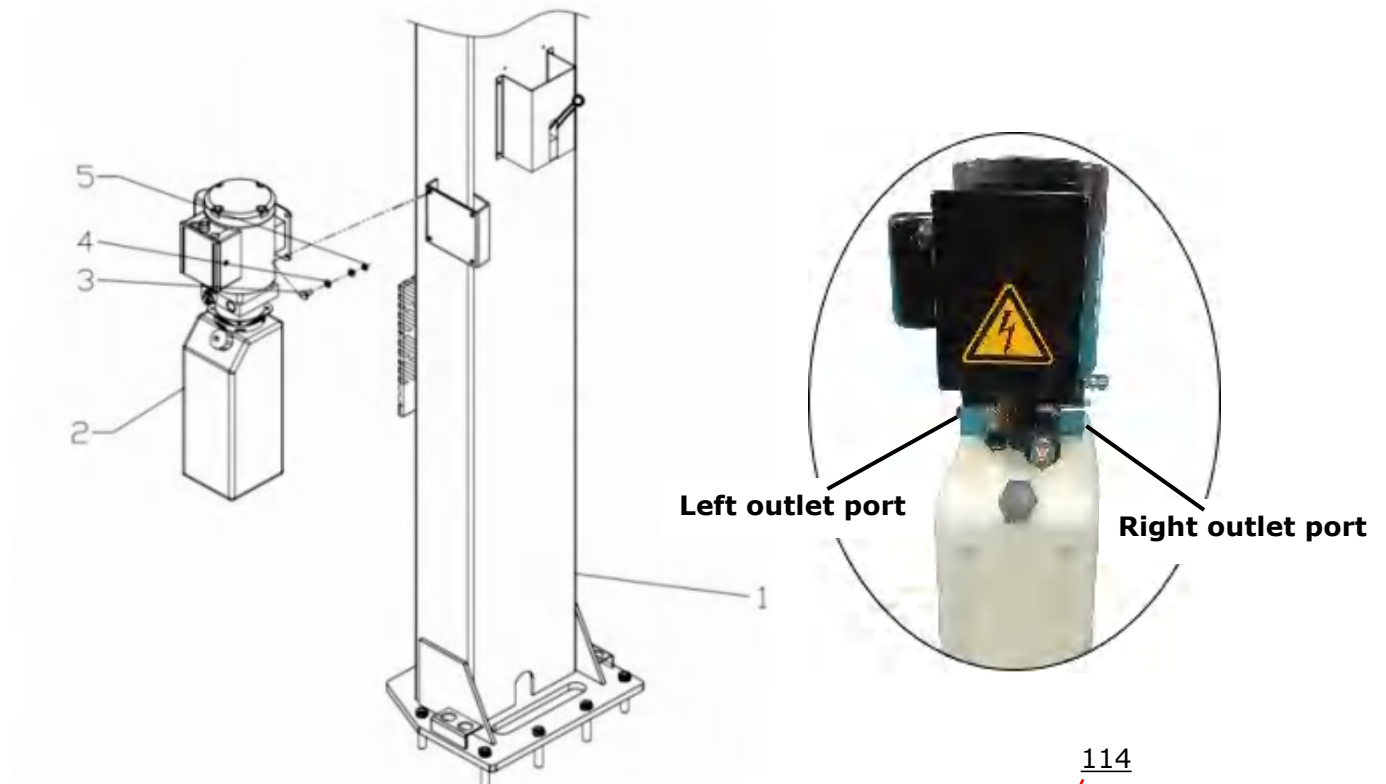


Fig. 32

M. Install oil hose High setting and low setting oil hose installation. (See Fig. 33). (48.49 only for high setting using)

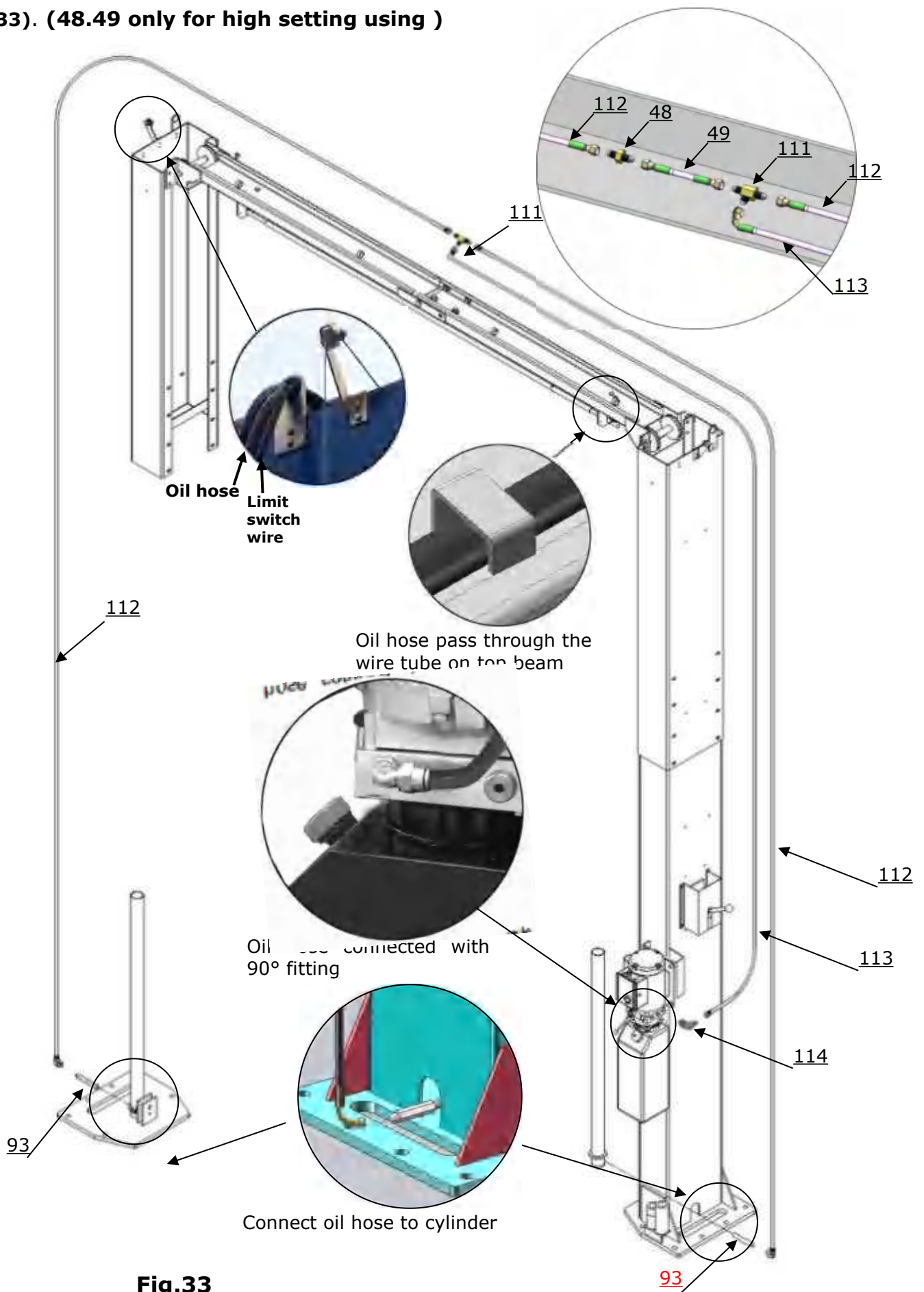


Fig.33

N. Install wire protective cover (See Fig. 34.)

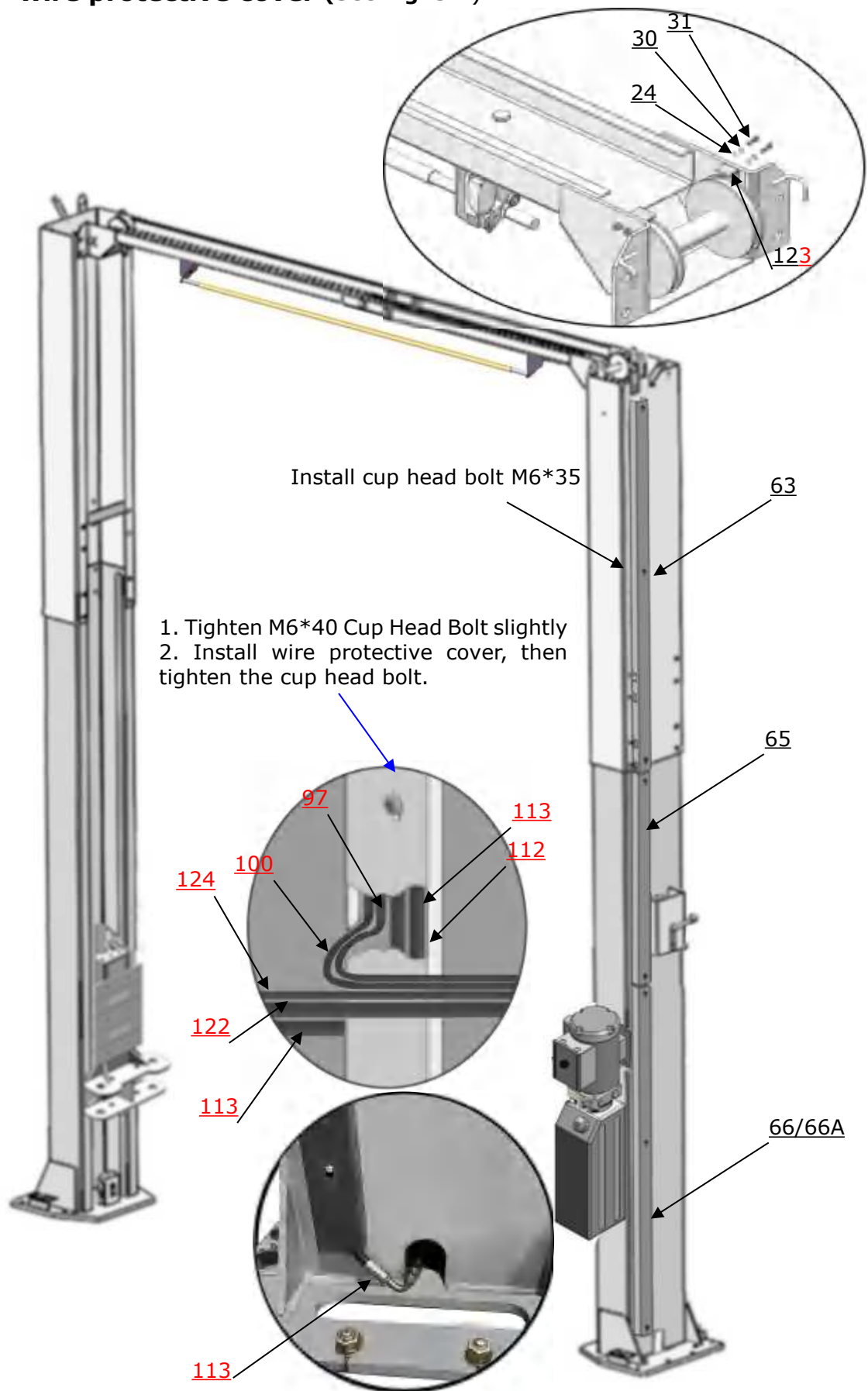


Fig. 34

O. Install safety cable.

Install safety cable from offside safety device to power-side safety device through the top beam bracket (**See Fig. 35**).

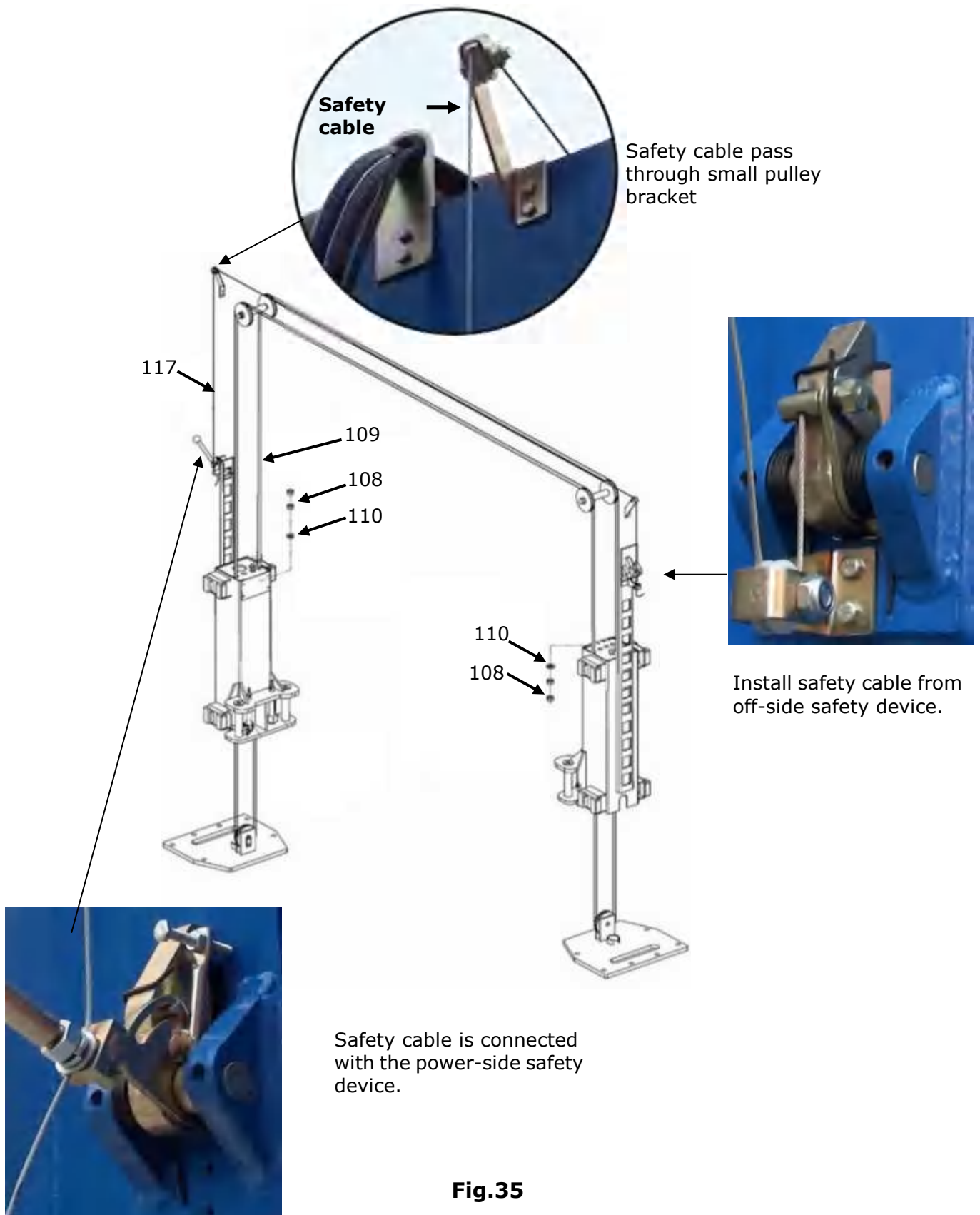


Fig.35

P. Install control box (See Fig. 36).

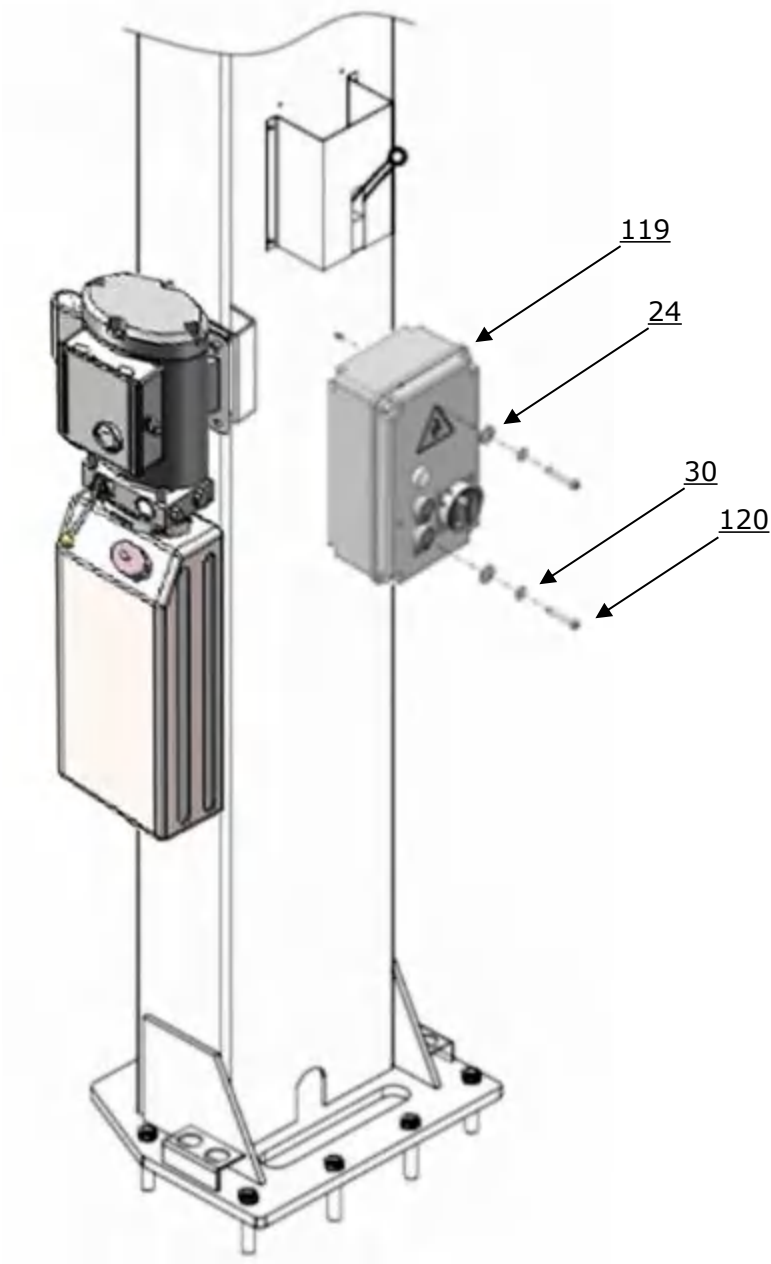


Fig.36

Q. Install electrical system

1. Connecting wire with control box (See Fig. 37).

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

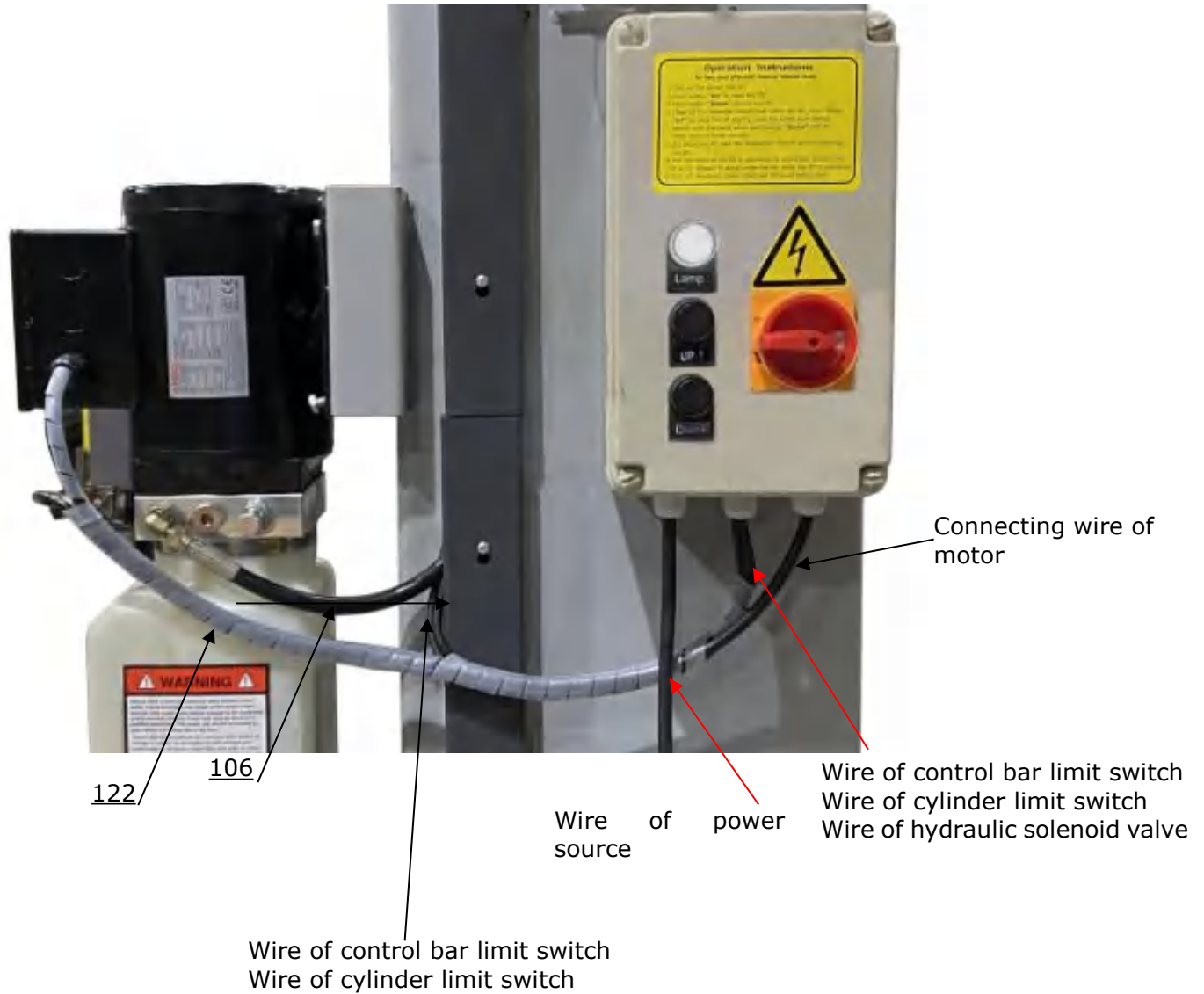


Fig.37

2. 380V Wire connection and circuit diagram

2.1 Wire connection diagram in the control box (See Fig. 38).

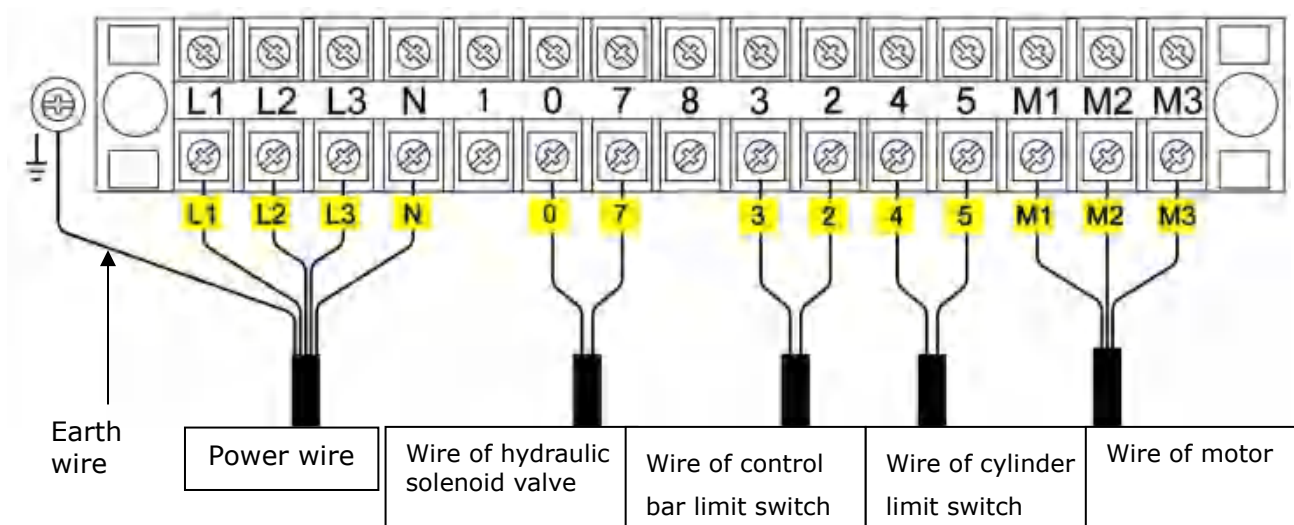


Fig. 38

2.2 380V Wire connection diagram of hydraulic motor (See Fig. 39).

Motor wire (M1,M2,M3) are connected to the right terminal of control box.

Turn on the power, push button **UP**, if motor run but lift does not rise, exchange the wire M1,M2 connection.

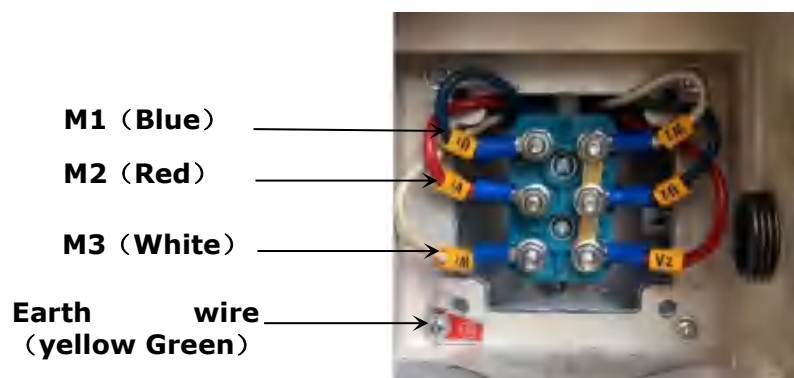


Fig.39

2.3 380V Circuit diagram (See Fig. 40).

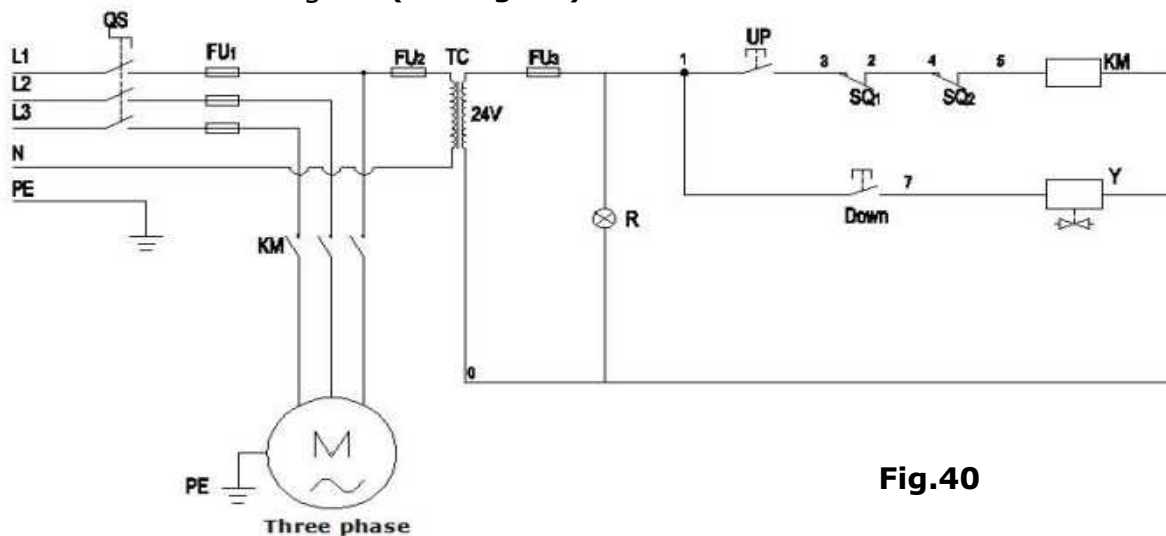


Fig.40

Circuit diagram component list For 380V Power

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power Switch	QS	380V AC	8	Alarm Lamp	R	24V (White)
2	Breaker	FU ₁	3P	9	Push Button	Down	Single
3	Breaker	FU ₂	1P	10	Motor	M	Three phase
4	Breaker	FU ₃	1P	11	Transformer	TC	24V AC
5	AC Contactor	KM	24V AC	12	Limit Switch for cylinder	SQ1	10A
6	Hydraulic Solenoid Valve	Y	24V AC	13	Limit Switch for limit bar	SQ2	10A
7	Push Button	UP	Single				

3. 220V Wire connection and circuit diagram

3.1 Wire Connection diagram in the control box (See Fig.41).

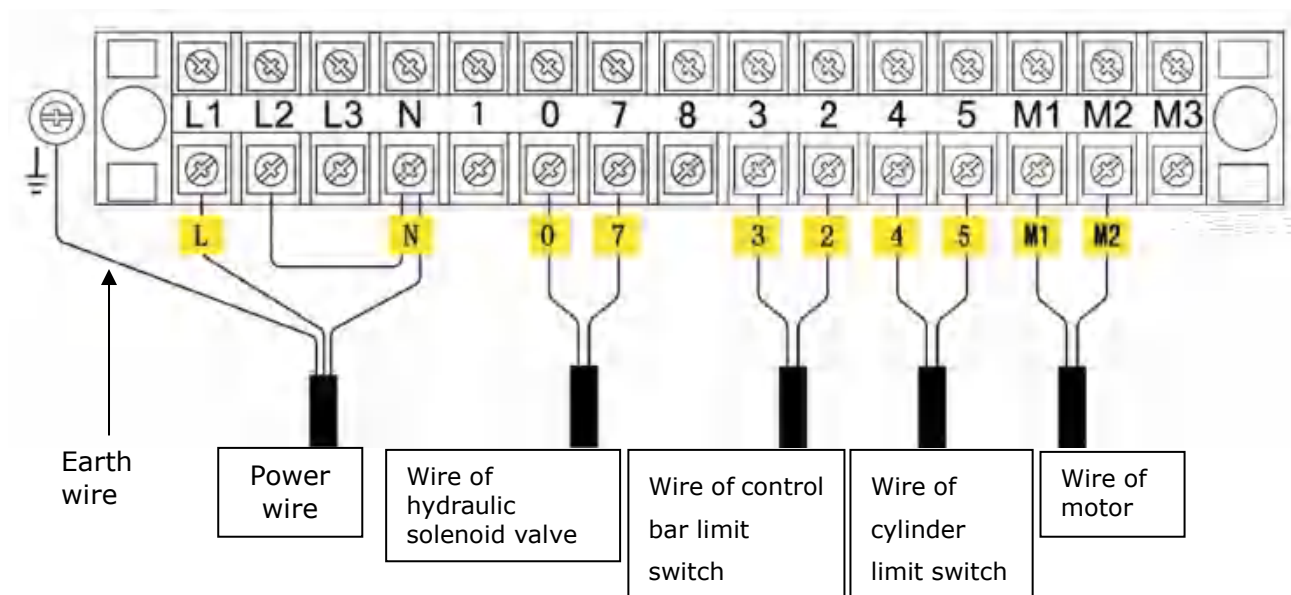


Fig. 41

3.2 220V Wire connection of hydraulic power unit (See Fig. 42).

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

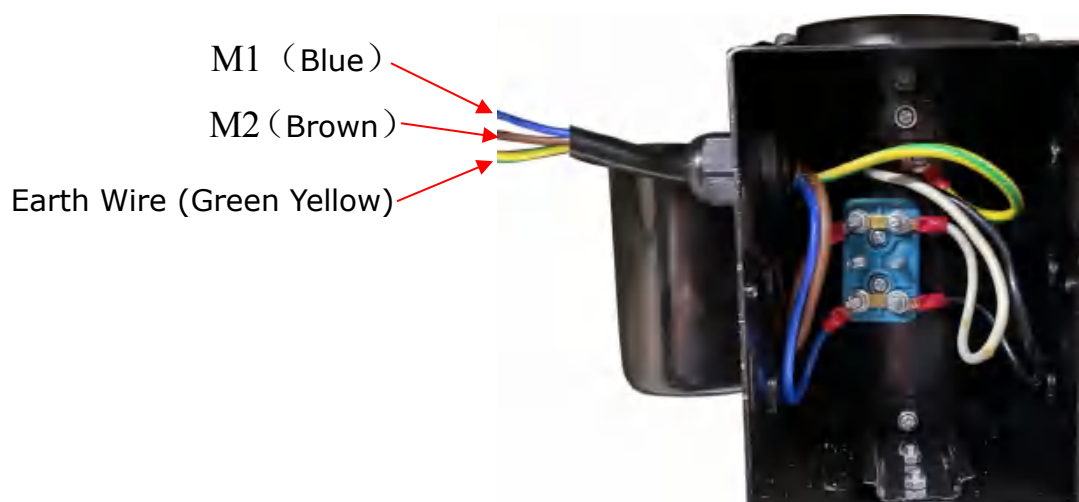


Fig. 42

3.3 220V Circuit diagram (See Fig. 43).

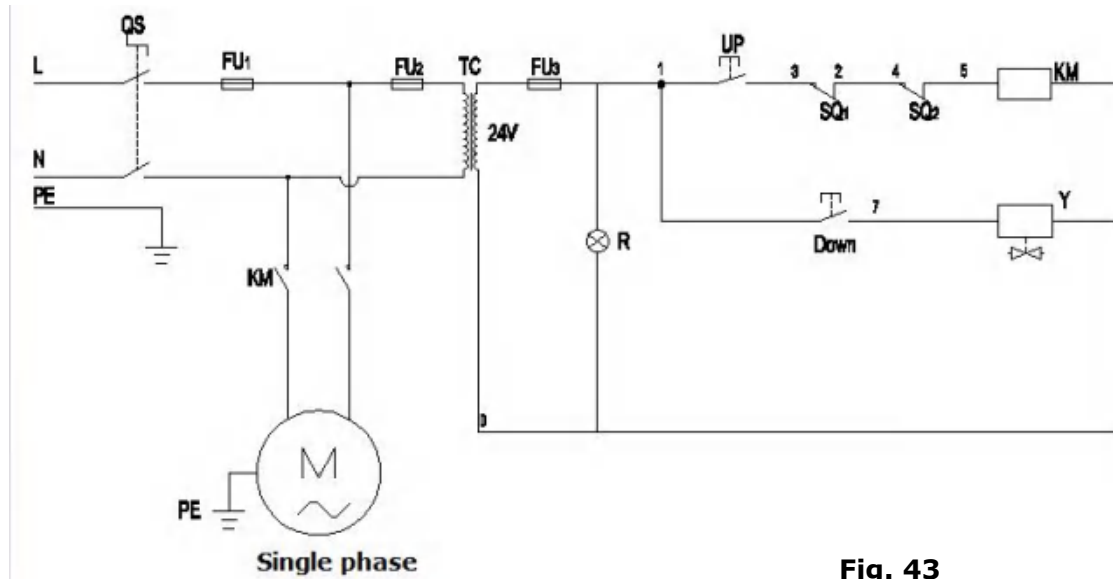


Fig. 43

Circuit diagram component list For 220V Power

Item	Name	Code	Specification
1	Power Switch	QS	380V AC
2	Circuit Breaker	FU ₁	2P
3	Circuit Breaker	FU ₂	1P
4	Circuit Breaker	FU ₃	1P
5	AC Contactor	KM	24V AC
6	Hydraulic Solenoid Valve	Y	24V AC
7	Push Button	UP	Single
8	Power indicator lamp	R	White (24V)
9	Push Button	Down	Single
10	Motor	M	Single phase
11	Transformer	TC	24V AC
12	Limit Switch for cylinder	SQ ₁	10A
13	Limit Switch for limit bar	SQ ₂	10A

R. Install lifting arms and adjust the arm locks

1. Install the lifting arms (**See Fig. 44**).
2. Lowering the carriages down to the lowest position, then use the 10[#] socket head wrench to loosen the socket bolt (**See Fig. 45**).
3. Adjust the arm lock as direction of arrow (**See Fig. 46**)
4. Adjust moon gear and arm lock to make it to be meshed, then tighten the socket bolts of arm lock (**See Fig. 47**).

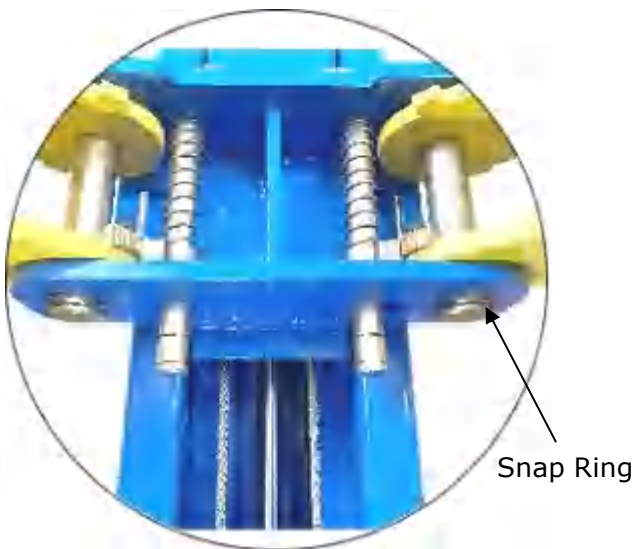


Fig. 44
Install lifting arms

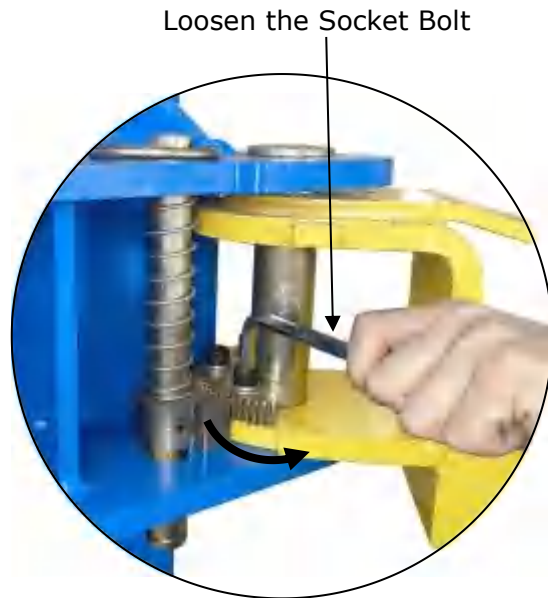


Fig. 45
Use the 10[#] Socket Head Wrench to loosen the Socket Bolt.

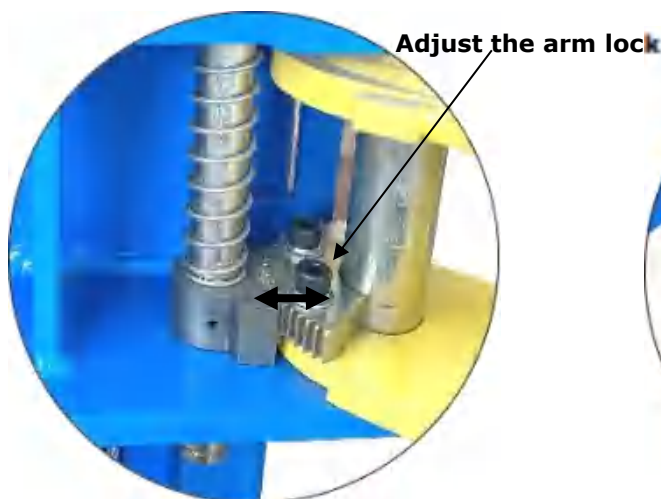


Fig. 46
Adjusting moon gear and arm lock to mesh.

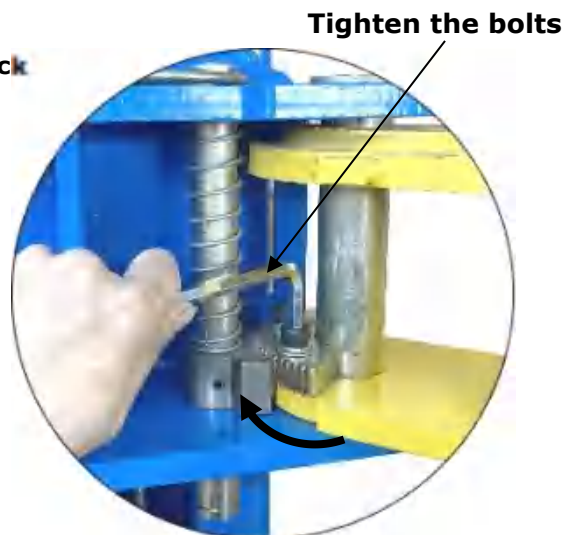


Fig. 47
Locking the bolts after the moon gear and arm lock engaged well.

T. 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#.

IV. EXPLODED VIEW

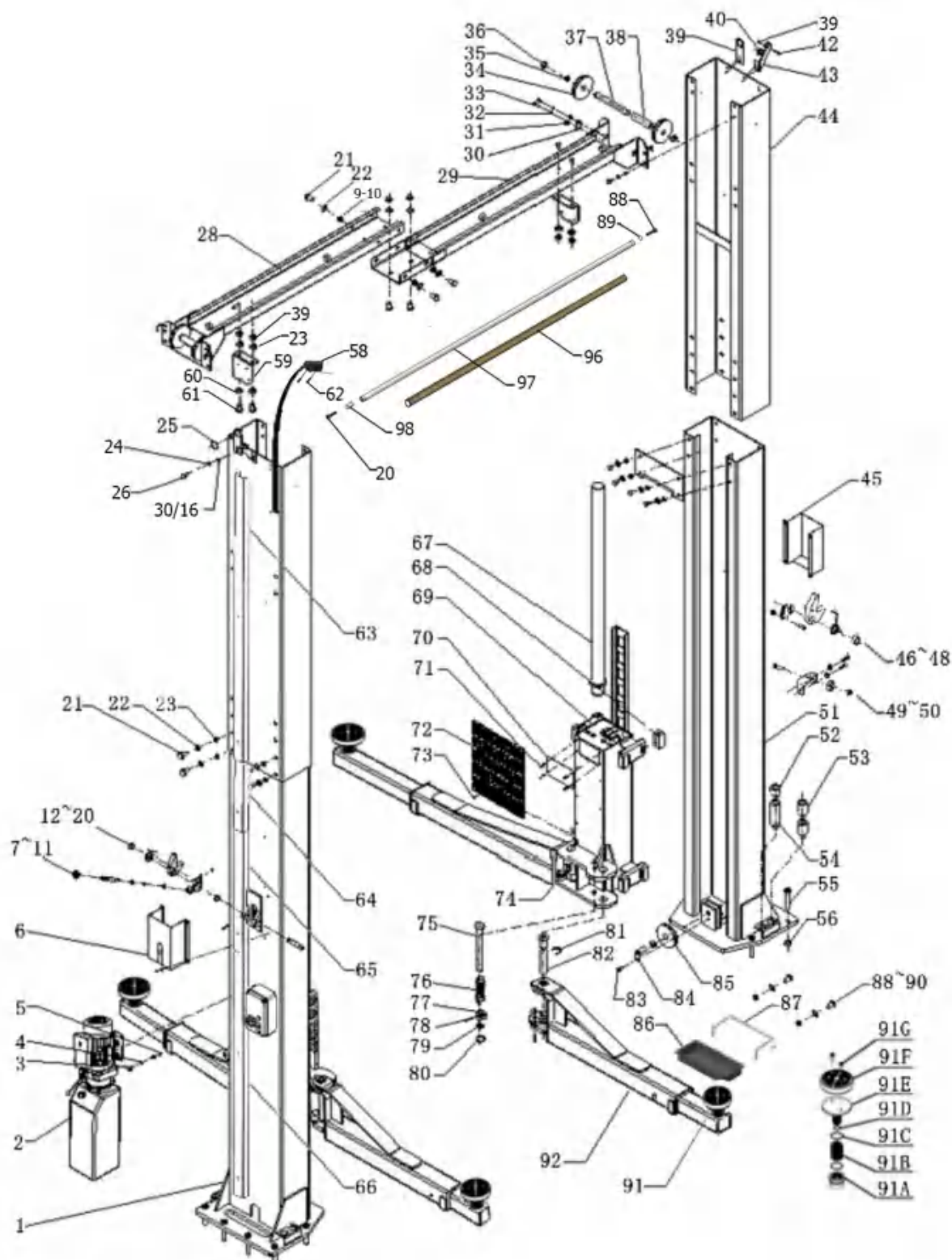


Fig. 48

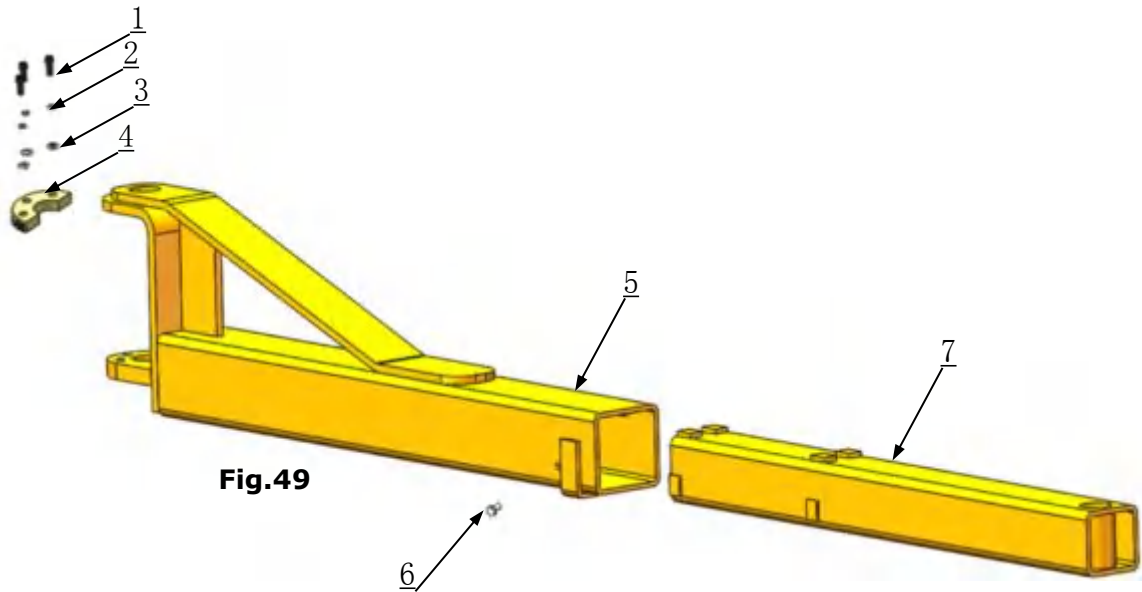
PARTS LIST FOR MODEL A268C

Item	Part#	Description	QTY
1	11217412	Power-side column	1
2	81523003	Power Unit 220V/Single Phase	1/1
	81523004	Power Unit 380V/3 Phase	
3	10209003	Hex Bolt M8*25	4
4	10209033	Washer φ8	4
5	10217002	Hex Nut M8	4
6	11217405	Power-side safety cover	1
7	10217005	Plastic ball	1
8	11217006	Lock handle	1
9	10206023A	Hex nut M12	31
10	10420026	Lock washer φ12	31
11	11217009	Main lock	1
12	11217436	Safety spacer φ36*15.5	2
13	10217030	Safety spring φ2.0*120°	2
14	11217004	Power-side cam lock	1
15	10217010	Hex bolt M6*40	1
16	10217011	Hex nut M6	9
17	11217012	Safety spacer φ27*10	2
18	10217051	Socket bolt M10*10	2
19	11217050	Safety pin	2
20	10201122	Hex bolt M8*35	1
21	10217069	M12*30 Hex Nut	30
22	10206006	φ12 Washer	31
23	10209039	Lock washer φ10	7
24	10420045	Washer φ6	38
25	1061K074	Protective ring	2
26	10217013	Hex bolt M6*20	8
27	11217016B-01	Top Beam Assy. (Left)	1
28	11217015B-01	Top Beam Assy. (Right)	1
29	11420044	Limit plate	2
30	10209149	Lock washer φ6	12
31	10420138	Socket bolt M6*16	12
32	11217019	Top pulley	4
33	10217020	Bronze bush for pulley φ31*φ25.1*16	6
34	11217021	Top Pulley Spacer (Short)	4
35	11217022	Pin for Top Pulley	2
36	11217023	Pin Spacer (Long)	2
37	11217024	Oil Hose Support Plate	2
38	10206009	Plastic Small Pulley	3
39	10209021	Nut M10	7
40	10209046	Hex Bolt M10*35	3
41	11217379	Safety Cable Bracket	2
42	11217471	Outer Column (L=2356mm)	2
43	11217406	Off-side safety cover	1
44	10217008	Safety Spring φ2.5*145°	1
45	11217031	Off-side cam Lock	1

Item	Part#	Description	QTY
46	10217032	Cable connecting pin	1
47	10217033	Self locking nut	1
48	10620079	Straight Fitting 1/4JIC(M)*1/4JIC(M)	1
49	1002185001-01	Oil hose 5/16"*1218mm	1
50	11217029	Small Pulley Bracket	1
51	10217066	Hex Bolt M6*15	3
52	11217413	Off-side Column	1
53	1102504002	Adapter 3"	4
54	1102504001	Adapter 6"	4
55	10201141	Anchor bolt M18*160	12
56	10620065	Shim(2mm)	10
57	10201090	Shim(1mm)	10
58	10217220	Limite switch assy. for Control bar L=4900mm	1
59	1103072003A	Control Bar Support Bracket	2
60	10209022	Washer φ10	4
61	10209125	Hex bolt M10*30	4
62	10420164	Cup Head Bolt M4*30	2
63	11217886	Wire Protective cover 1620mm	2
64	11217882	Wire Protective cover 304mm	2
65	11217881	Wire Protective cover 920mm	2
66	11217880	Wire Protective cover 1320mm	1
66A	11217895	Wire Protective cover 1320mm	1
67	10217056B	Cylinder φ63*1727	2
68	10217188	Slider block	16
69	11217196	Carriage	2
70	11217054	Carriage Plastic Cover	2
71	10209009	Cup Head Bolt M6*8	8
72	10217053	Protective Rubber	2
73	10209019	Flat Head Screw M6*16	12
74	11217046B	Arm Lock Bar(Right) φ30*324.5	2
75	11217046C	Arm Lock Bar(Left) φ30*324.5	2
76	10217045A-01	Spring φ31*φ36*φ2.5*214.5	4
77	1002163001	Arm Lock M1.5*72teeth*24	4
78	10206036-01	Hair pin φ6*45	4
79	1102163002	Washer φ39*4*18	8
80	10610008	Snap ring φ30	4
81	10520023	Snap ring φ38	4
82	11217047B	Arm Pin	4
83	10209038	Hex Bolt M10*16	6
84	11217037	Bottom pulley Pin	2
85	11217036	Bottom Pulley	2
86	10206156	Tool tray	2
87	11206154	Rear guard bar	4
88	10201002	Hex bolt M8*16	9
89	10209034	Lock Washer φ8	9
90	10209033	Washer φ8	8
91	10203054	Rubber pad assy.	4

Item	Part#	Description	QTY
91A	1102175001	Adjustment Adapter	1
91B	10203042	Snap ring	2
91C	11203025	Adjustment Screw	1
91D	10203041	Snap ring	1
91E	11203043	Support cushion mounting plate assy	1
91F	11203026	Rubber Pad Frame	1
91G	10420043	Socket bolt M8*20	2
92	10217327	Lifting Arm Assy.	4
93	1102186001	Extend Straight Fitting 1/4JIC(M)*3/8NPT(M)	2
94	10209153	Handle pull-tab $\phi 70 \times \phi 6$	4
95	11217068	Column Reinforce Plate	2
96	10206025A	Foam tube of control bar $\phi 35 \times \phi 22 \times 1950\text{mm}$	1
97	1102072001A	Control Bar $\phi 22 \times 2400$	1
98	110207007	Connecting Bush $\phi 14 \times 2 \times 20$	1
100	10217219	Cylinder limit switch assy. L=6170mm	2
101	10620095	Hex nut M4	4
102	10620109	Cup Head Bolt M4*18	2
103	10420164	Cup Head Bolt M4*30	2
104	10217457	Plastic hose $\phi 10 \times 1 \times 3130\text{mm}$	1
105	10209152	Tie 3*150	5
106		Corrugated pipe $\phi 10 \times 1 \times \text{mm}$	3
107	10209009	Cup Head Bolt M6*8	8
108	10209066	Cable nut M16	8
109	10217452	Cable Assy. $\phi 9.52 \times 12540\text{mm}$	2
110	10420029	Cable Shim $\phi 16$	4
111	10211016	T Fitting 1/4JIC(M)*1/4JIC(M)*1/4JIC(M)	1
112	10217455-01	Oil hose Assy. 5/16*6125mm	2
113	10217456-01	Oil hose Assy. 5/16*5130mm	1
114	10209060	90 °fitting for power unit	1
115	10206110	Cup Head Bolt M6*35	6
116	10206079	Cup Head Bolt M6*40	12
117	10217453	Safety Cable L=10370mm	1
118	10217506A	Parts box	1
119	10206220	Control Box (Single Phase)	1/1
	10206123	Control Box (Three Phase)	
120	10209145	Cup Head Bolt M6*12	2
121	10217135	Wire of motor	1
122	10217176	White wrap	1
123	1102075001	Limit plate of Cable	4
124	10201070	Wire cable for solenoid valve L=900mm	1
125	10630100	Cup Head Bolt M10*40	1
126	10720002	Cup Head Bolt M10*25	1

1. Lifting Arm Exploded View



Item	Part#	Description	Qty
1	1102163005	Socket bolt M12*48	12
2	10209150	Lock washer $\phi 12$	12
3	10430010	Washer $\phi 12$	12
4	1102163001	Moon gear	4
5	11217122	Outer arm- Rear	4
6	10201149	Flat head screw M8*12	4
7	11217123A	Inner arm - Rear	2

2. Cylinders Exploded View (10217056B)

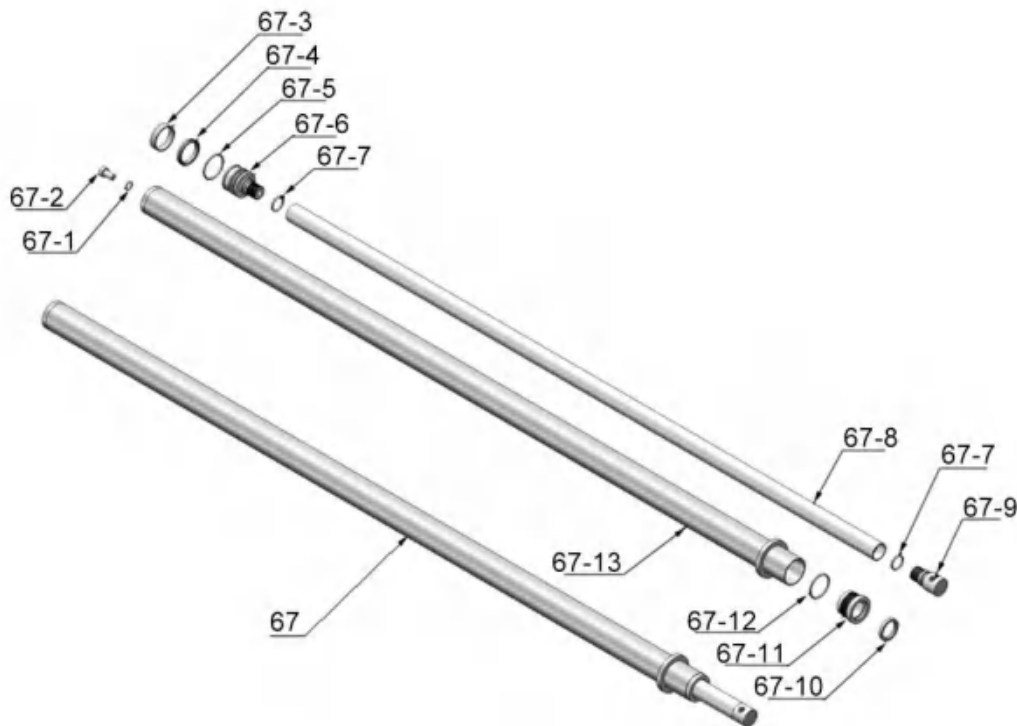


Fig.50

Item	Part#	Description	Qty.
67-1	10209069	O-Ring	2
67-2	10209070	Bleeding Plug	2
67-3	10201029	Support Ring	2
67-4	10201030	Y-Ring OSI	2
67-5	10201031	O-Ring	2
67-6	11217074A	Piston	2
67-7	10217075	O-Ring	2
67-8	11217089	Piston rod	2
67-9	11217077	Piston rod fitting	2
67-10	10217078	Dust ring	2
67-11	11217079	Head cap	2
67-12	10217080	O-Ring	2
67-13	11217091	Bore weldment	2

3. Control box Exploded View

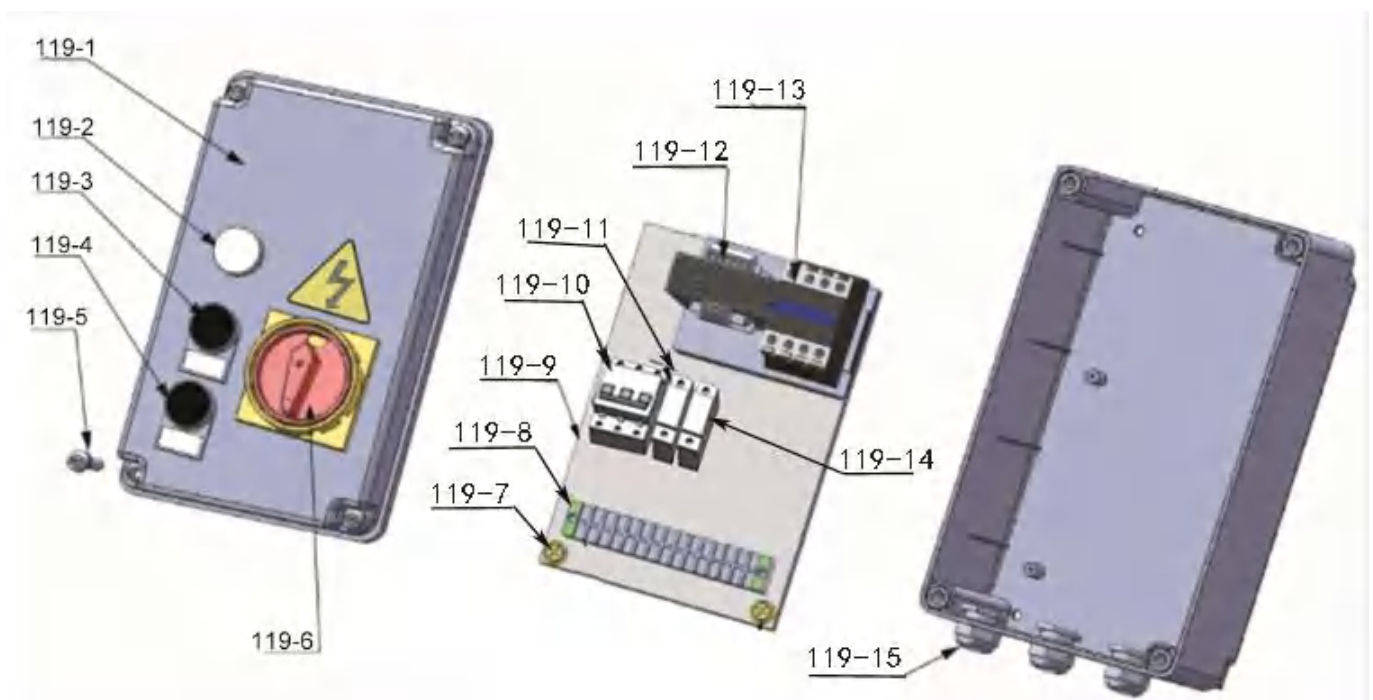


Fig.51

Item	Part#	Description	Qty.
119-1	10420069A	Control panel	1
119-2	10201094	Indicate light (24V white)	1
119-3	10420071	Up button	1
119-4	10420072	Down button	1
119-5	10420139	Screw for control box	4
119-6	41010217	Power switch (QS)	1
119-7	10420073	Cup head bolt	4
119-8	10620082	Wire connecting switch	1
119-9	10420133A	Component mounting plat	1
119-10	10202047	Breaker 3P 16A (Only for 3 phase)	1
	10202046	Breaker 2P 25A (Only for single phase)	1
119-11	10202049	Breaker 1P 6A	1
119-12	10580114	Transformer (TC)	1
119-13	10420084A	24V contractor(KM)	1
119-14	10202049	Breaker 1P	1
119-15	10420088	White power line fittings	3

4. Power unit exploded view (81523003 /81523004)

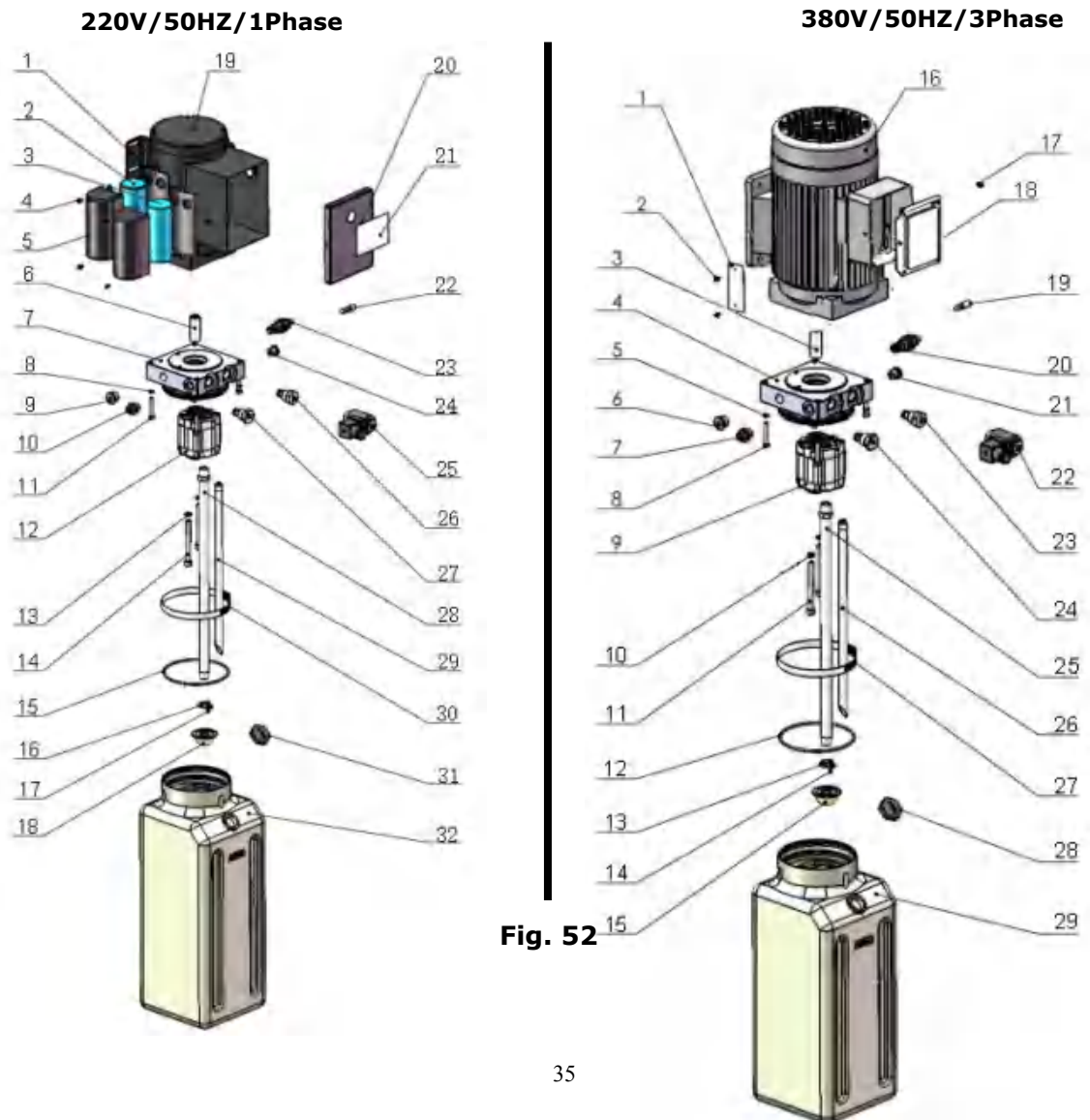


Fig. 52

Parts list for 220V/50Hz, Single Phase

Item	Part#	Description	Qty.
1	81400180	Rubber Pad	2
2	81400250	Starting capacitor	1
3	81400200	Running capacitor	1
4	10420148	Cup Head Bolt with washer	4
5	81400066	Cover of Motor Terminal Box	2
6	81400363	Motor Connecting Shaft	1
7	81400362	Manifold block	1
8	10209149	Washer	4
9	81400276	Iron plug	1
10	81400259	Red rubber plug	1
11	85090142	Socket bolt	4
12	81400292	Gear pump	1
13	10209034	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 terminal box cover	1
21	71111192	AMGO power unit label	1
22	81400560	Throttle valve	1
23	81400266	Relief valve	1
24	81400284	Inner hex iron plug	1
25	81400420	Solenoid valve coil	1
26	81400423	Release valve(electrical)	1
27	81400566	Check valve	1
28	81400366	Oil suction pipe	1
29	81400367	Oil return pipe	1
30	81400364	Clamp	1
31	81400263	Oil tank cap	1
32	81400319	Oil tank	1

Parts lift for 380V/50Hz, Three Phase

Item	Part#	Description	Qty.
1	71111193	AMGO power unit label	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	Socket bolt	4
9	81400307	Gear pump	1
10	10209034	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	81400309	Motor	1
17	10420148	Cup Head Bolt	2
18	80101022	Motor terminal box cover	1
19	81400560	Throttle valve	1
20	81400266	Relief valve	1
21	81400284	Iron plug	1
22	81400420	Solenoid valve coil	1
23	81400423	Release valve(electrical)	1
24	81400566	Check valve	1
25	81400366	Oil suction pipe	1
26	81400367	Oil return pipe	1
27	81400364	Clamp	1
28	81400263	Oil tank cap	1
29	81400319	Oil tank	1

Illustration of hydraulic valve for power unit

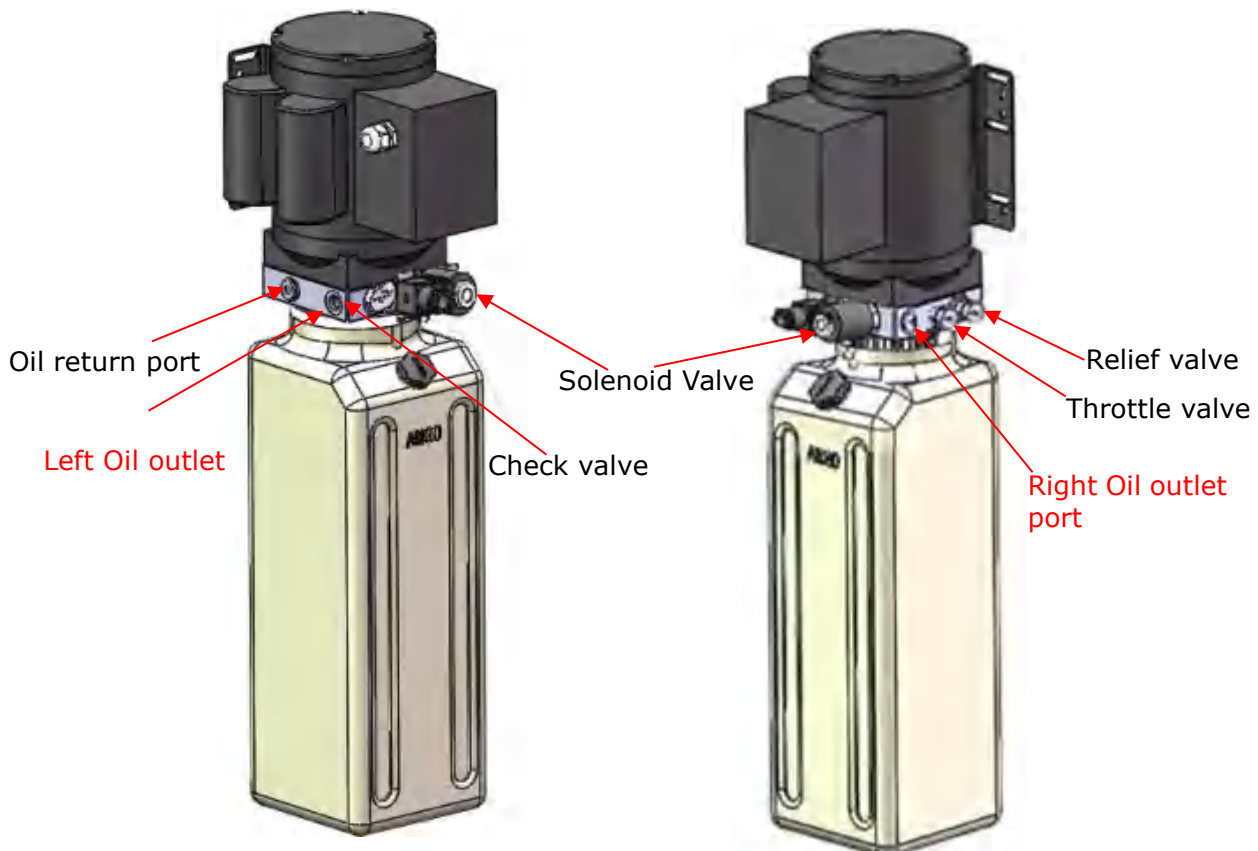


Fig.53

V. TEST RUN

1. Adjustment of synchronous cable (See Fig. 54)

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.

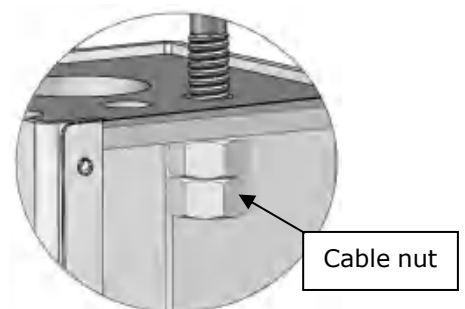


Fig. 54

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 (See Fig. 55)

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.

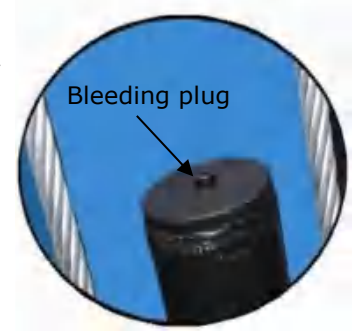
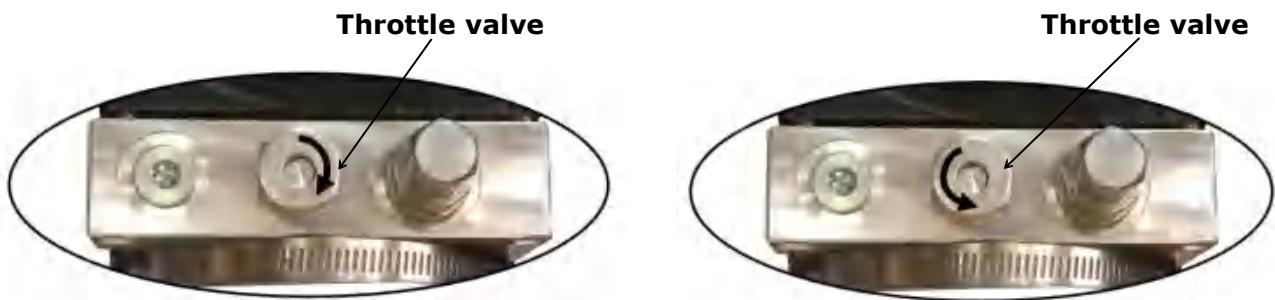


Fig. 55

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. 56

5. 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, lifting it with load for several times, the air would be bled and the vibration would be disappeared automatically.

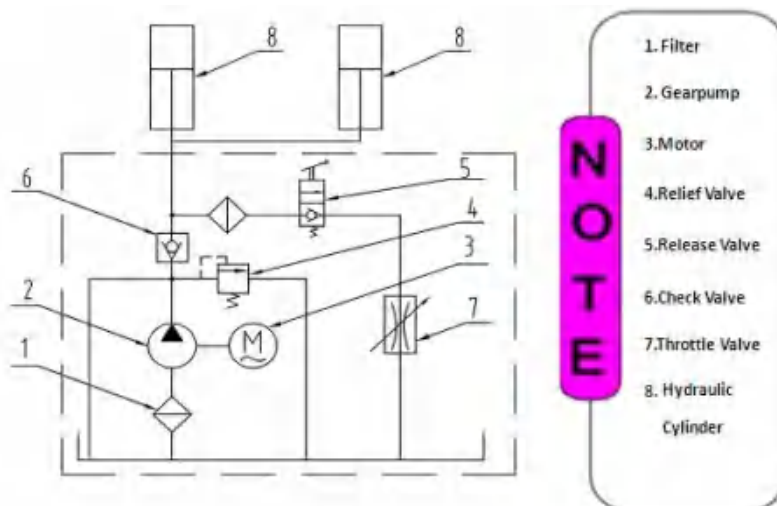


Fig. 57

VI. OPERATION INSTRUCTIONS

Please read the safety tips carefully before operating the lift

To lift vehicle

1. Keep clean of site around the lift
2. Position lifting arms to the lowest position
3. Shorten the arms to the shortest condition
4. Open the lifting arms to allow vehicle driven in
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. Turn on the power switch QS, 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 button **"DOWN"** 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 **"DOWN"** button.
3. Open the arms and position them to the shortest length;
4. Drive away the vehicle.
5. Turn off the power.

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.

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.

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 plumpness.
4. Check rubber pads and replace as necessary.
5. Check safety device and make sure proper condition.

VIII. TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	1. Start Button does not work 2. Wiring connections are not in good condition 3. Motor burned out 4. AC contactor burned out	1. Start Button Replace button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace AC contactor
Motor runs but the lift is not raised	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	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	1. Release valve out of work 2. Relief valve or check valve leakage 3. Cylinder or fittings leaks	Repair or replace
Lift raises slowly	1. Oil line is jammed 2. Motor running on low voltage 3. Oil mixed with air 4. Gear Pump leaks 5. Overload lifting	1. Clean the oil line 2. Check electrical system 3. Fill tank 4. Repair or replace 5. Check load
Lift can not lower	1. Safety device are locking 2. Release valve in damage 3. Safety cable broken 4. Oil system is jammed 5. Hydraulic solenoid valve out of work	1. Release the safeties 2. Repair or replace 3. replace 4. Clean the oil system 5. Repair or replace

IX. CAR LIFT SAFETY TIPS

Put this safety tips in a place where you can always alert the operator. Please reference to the lift manufacturer's manual for specific information about the lift.

1. Check the lift daily. If the machine breaks down or has damaged parts, do not operate, and use the parts of original equipment to repair.
2. Do not overload the lift. The rated weight of the manufacturer design is indicated on the label of the lift.
3. Position control of the vehicle and operation of the lift can only be done by a trained and authorized person.
4. You can not lift a car with people inside. When the lift is working, the customer or other people should not be around the machine.
5. Keep the place around the lift without obstacles, lubricants, grease, garbage and other debris for a long time.
6. Carefully drive the car onto the lift, and the lift should raise to the required height for operation. **Note**, if you are working under a car, raise the lift high enough and make sure the safety mechanism has locked the machine.
7. Note, removing(or installing) parts from a car can cause a sudden shift of gravity that unstable the raised car. Reference to the car manufacturer's service manual as a recommended procedure when removing parts from the car.
8. Before the lift drops, make sure that the tool tray, tool rack, etc. are removed under the car.

X. 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.



PEAK CORPORATION

No. 3 Luomu Road, Shishan Town, Nanhai District, Foshan(528225), Guangdong, China

Tel: 86-757-81102815 81102805

Fax: 86-757-81102809

Email: amgo@peaklift.cn <http://www.amgolift.com>

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