Pro Series Equipment

Manual

PSEOH-1010

2 Post

Automotive Lift

Distributed By;

DWI
POWER SYSTEMS
COMPLETE HYDRAULICS
1.888.736.5094

130 Commerce Dr, Franklin IN 46131

Warning

You must read first before installation!! Never Drill all of the Holes First

2 Post Installation Guideline

1. **Out line on floor and Set Power Unit Column First!!**
2. **We recommend 6” of concrete for overhead lifts & 8” for base plate lifts. See manual for exact thickness.**
3. **DRILL ONLY THE FIRST POST!! The next to last step is to drill and level the 2nd post.**
4. **Drill all the way through concrete unless it is thicker than your drill.**
5. **Insert Anchor Bolts in holes of post 1, tighten down and check level. Losen and install shims to bring to level. This make take several steps. Torque to specifications per manual when level.**
6. **Place 2nd post in appropriate position. Do Not Drill Yet!**
7. **Assemble overhead or base plate, Do not tighten up. DO NOT LEAN LADDER ON 2nd POST!**
8. **Once Assembled, position 2nd post and level then drill holes for Anchors. Install anchors and tighten up and check level. If level is off, loosen bolts and level with shims then tighten. Repeat until post is level.**
9. **Go back and tighten all of the assembled lift. Finish installation.**

CONTENTS

I. PRODUCT FEATURES AND SPECIFICATIONS

CLEAR-FLOOR DIRECT-DRIVED MODEL FEATURES

Model PSEOH-1010 (See Fig. 1)

II. Direct-drived design, minimize the lift spare parts and breakdown ratio

III. Dual hydraulic cylinders, designed and made as standards, utilizing oil seal in cylinder

IV. Self- lubricating UHMW Polyethylene sliders and bronze bush

V. Single-point safety release, and dual safety design

. Clear-floor design, provide unobstructed floor use

. Overhead safety shut-off device prevents vehicle damage

VI. Super-asymmetric arms design can fit extremely wide vehicles, stackable rubber pads . Standard adjustable heights accommodate varying ceiling heights

Fig. 1

PSEOH-1010 **SPECIFICATIONS**

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Width Between Columns	Minimum Pad Height	Motor
PSEOH-1010	Clear-floor Direct-drived	10,000 lbs	56S	71 1/2’ ’ -84 1/2’ ’	142-1/2”/150-1/2”	135”	112 1/4”	3 1/2”-12 1/2”	2.0 HP

Arm Swings View
For Model

PSEOH-910,

PSEOH-1010

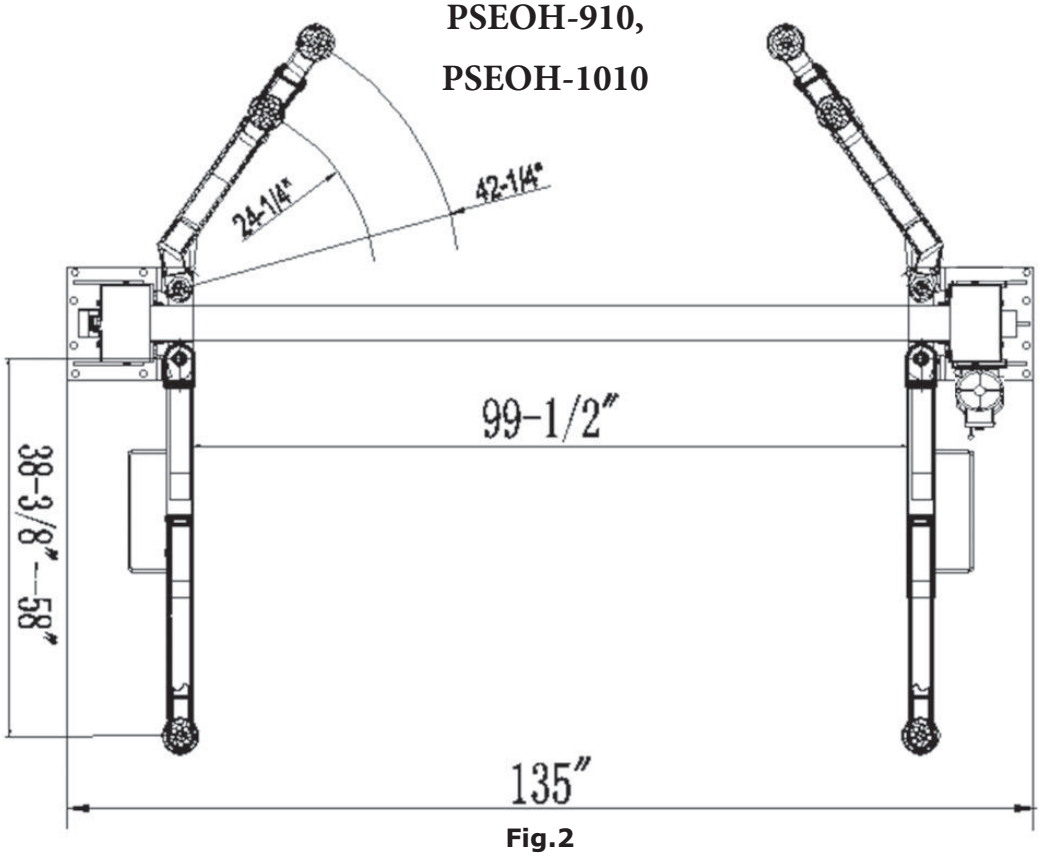


Fig.2

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

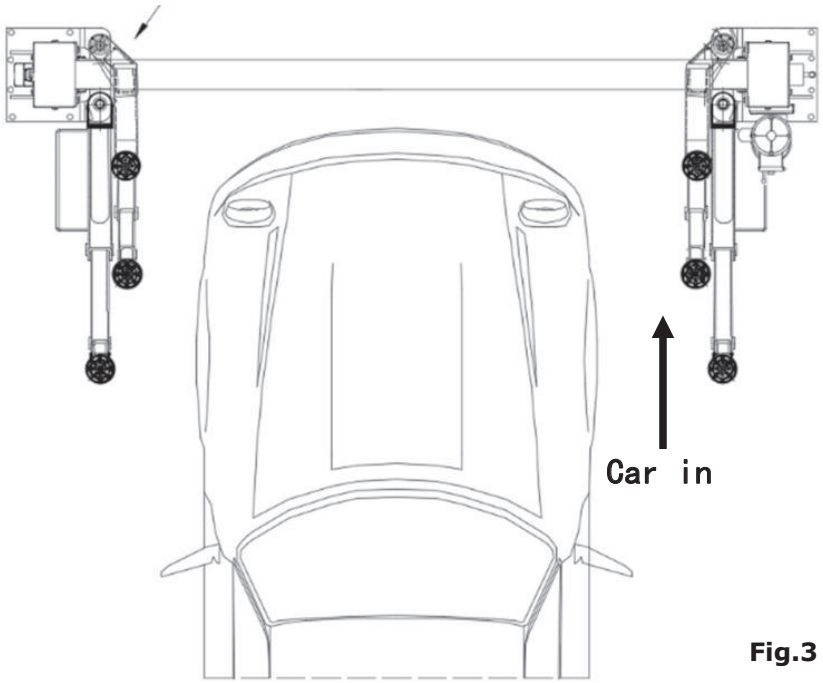


Fig.3

Swing and **extending** the arms to the lifting point of vehicle

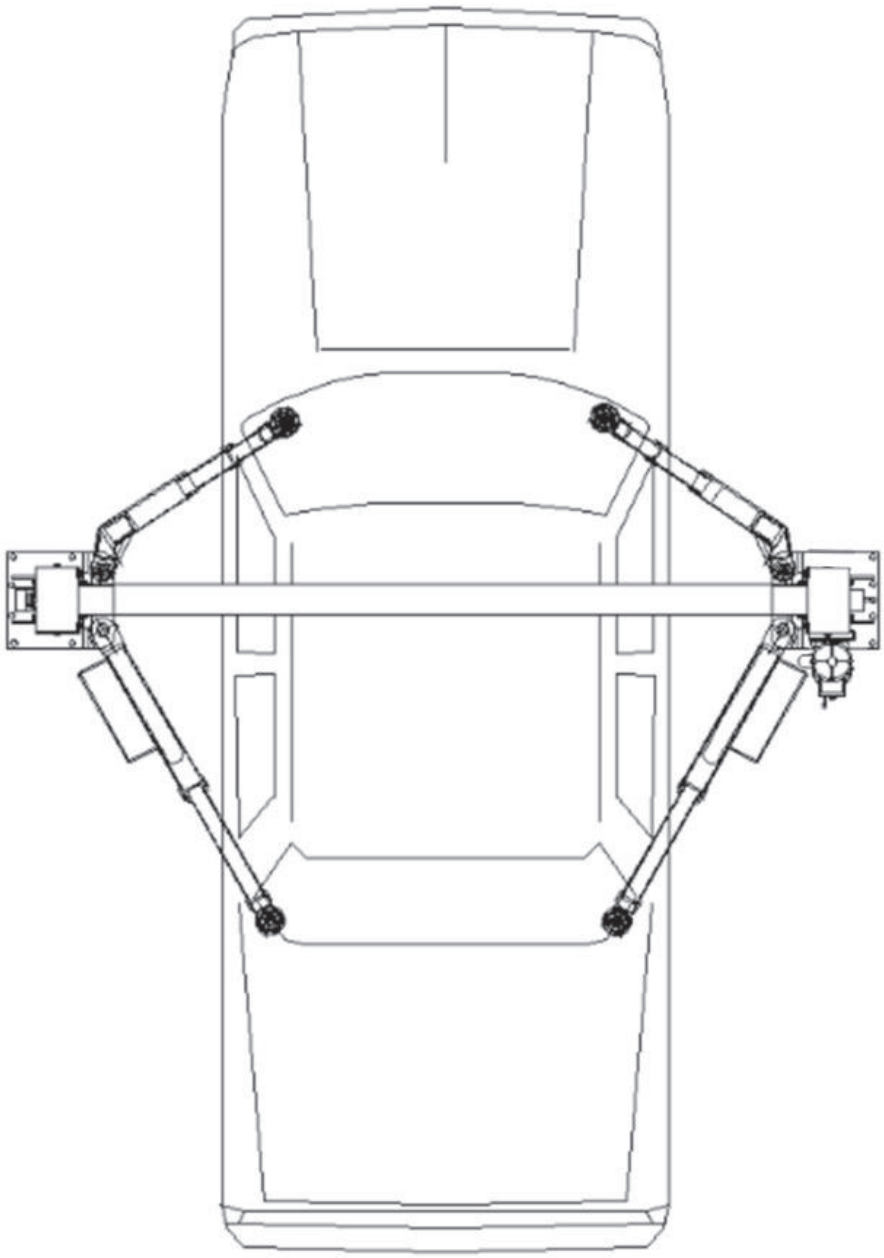


Fig.4

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

✓ Rotary Hammer Drill (Φ19)

✓ Carpenter's **ink marker**

✓ Hammer

✓ Screw Sets

✓ Level Bar

✓ Tape Measure (7.5m)

✓ English Spanner (12")

✓ Pliers

✓ Ratchet Spanner with Socket (28#)

✓ Socket Head Wrench (3#, 5#, 8#)

- Wrench set

(8#, 10#, 13#, 14#, 17#, 19#, 24#)

- Lock Wrench

Fig.5

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.

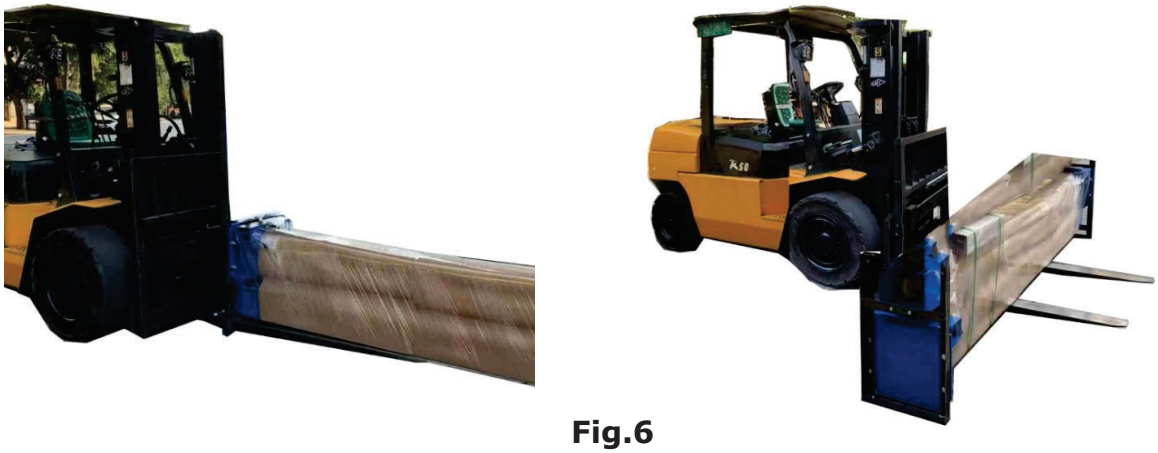


Fig.6

D. SPECIFICATIONS OF CONCRETE (See Fig. 7)

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 4” 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 minimum.
3. Floors must be level and no cracks.

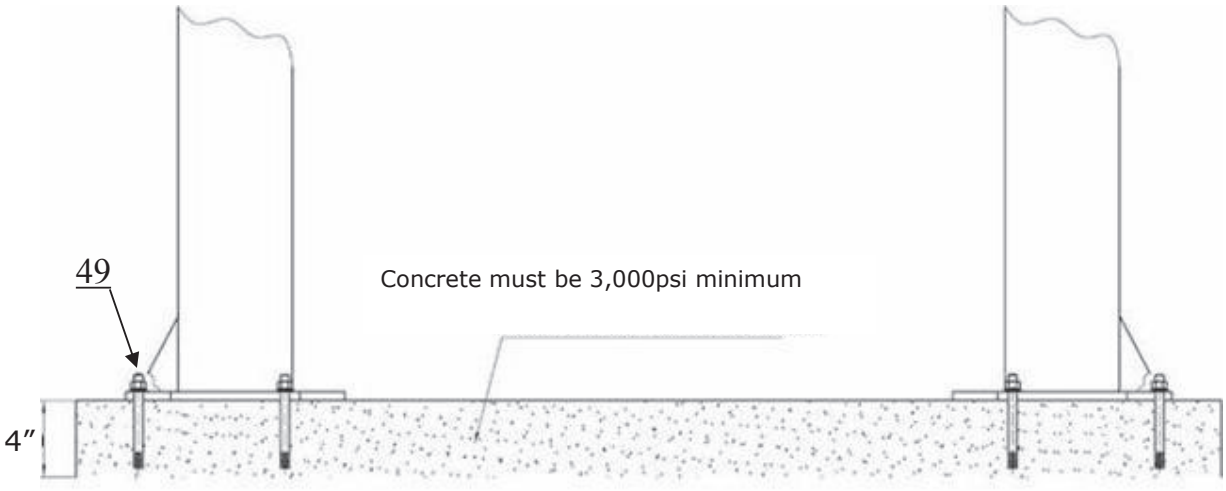


Fig. 7

E. POWER SUPPLY

The electrical source must be 3.0HP 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 **ink marker** line to establish installation layout of base-plate **(See Fig.8)**.

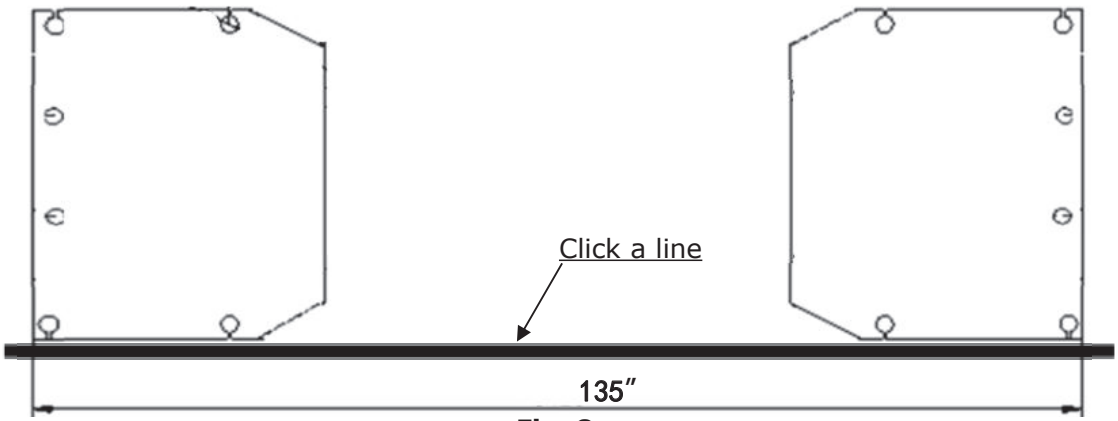


Fig. 8

C. Check the parts before assembly.

1. Packaged lift and power unit **(See Fig. 9).**

Fig. 9

2. Move aside the lift with fork lift or hoist, and open the extension packing carefully, take off the lifting arms and parts box from upper and inside the column, then move them to location nearby installation site, check the parts according to the shipment parts list **(See Fig.10).**

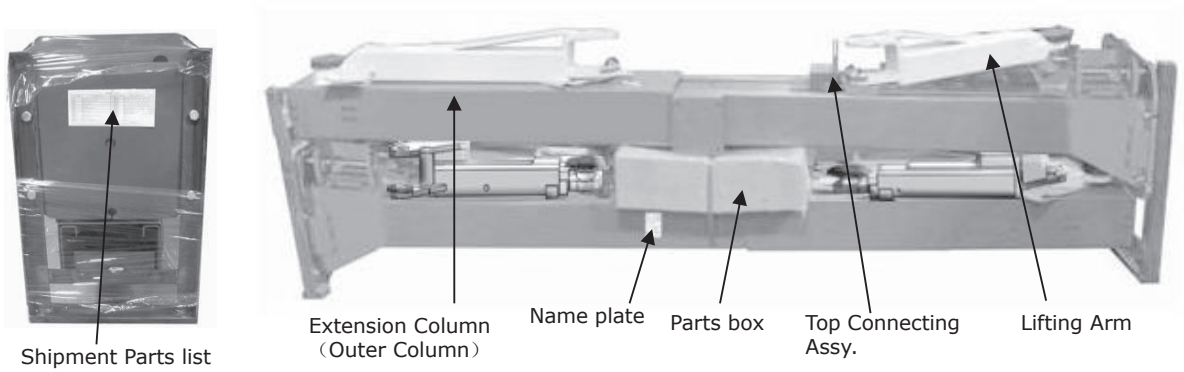


Fig.10

3. Loose the screws of the upper package stand, take off the upper extension columns, take out the parts in the inner column and remove the package stand.
4. Move aside the parts and check the parts according to the shipment parts list. **(See Fig.11, 12).**

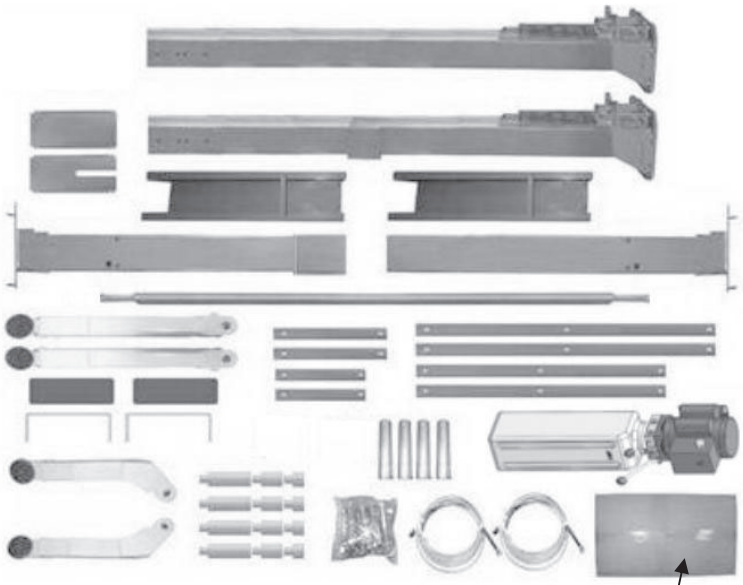


Fig. 11
Parts in the shipment parts list

Fig. 12
Parts in the parts box (50)

5. Open the bag 1 of parts and check the parts according to parts box list **(See Fig. 13).**

Fig. 13

6. Open the bag 2 of parts and check the parts according to parts bag list **(See Fig. 14).**

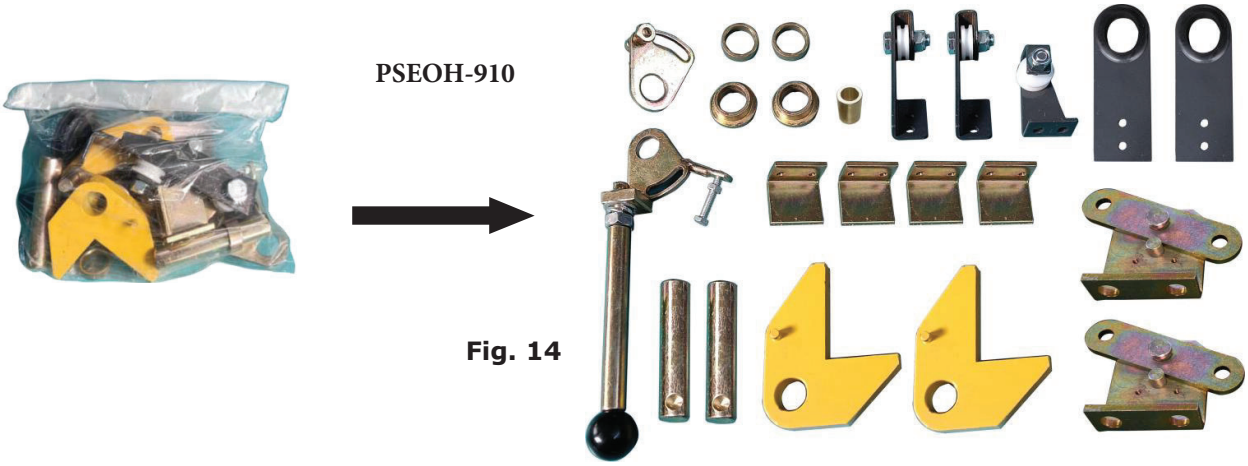


Fig. 14

D. Install parts of extension columns (See Fig. 15).

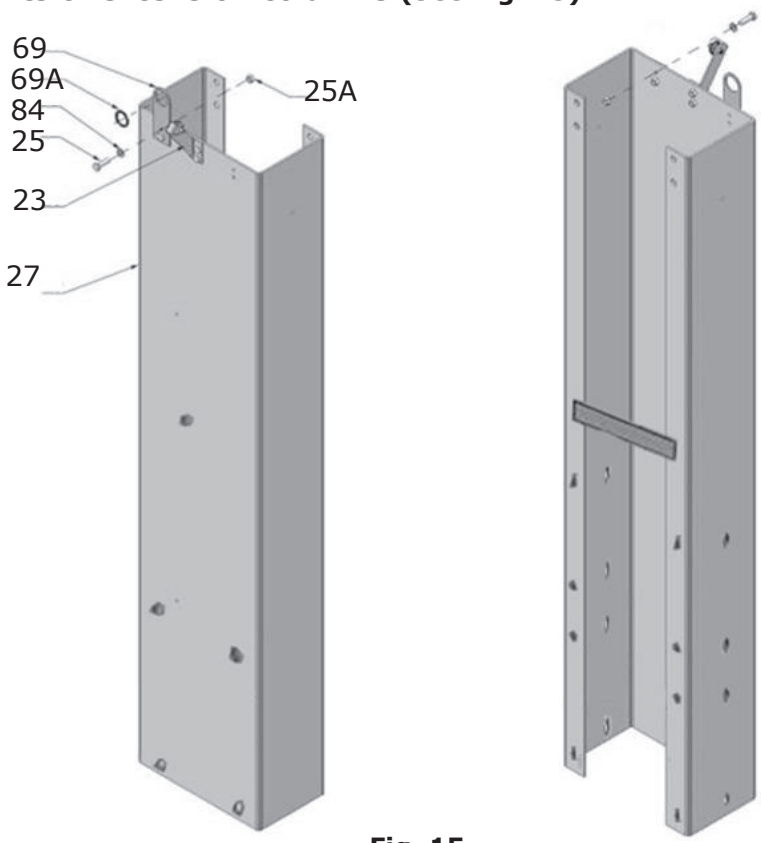


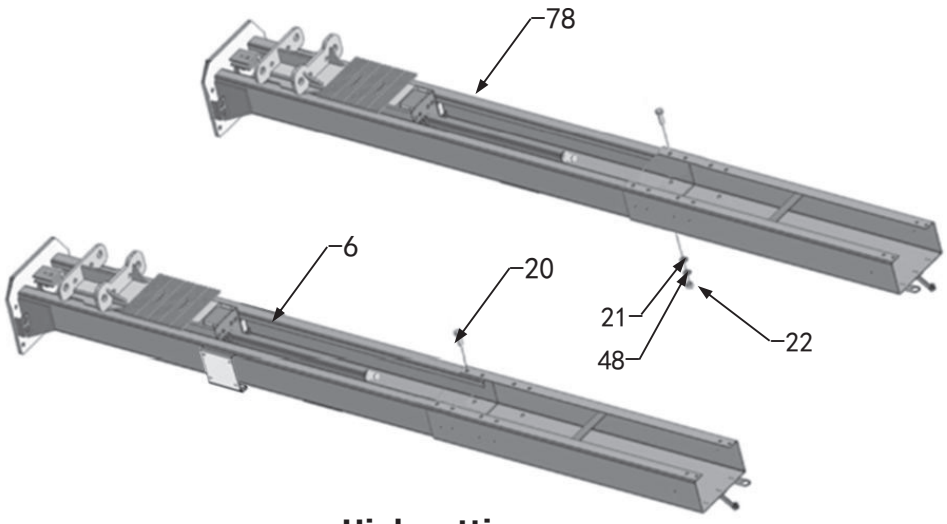
Fig. 15

E. Position power-side column

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 front-right side of the direction which vehicles are driven to the lift. This lift is designed with 2-Section columns. Adjust the height according to the ceiling height and connect the inner and extension columns.

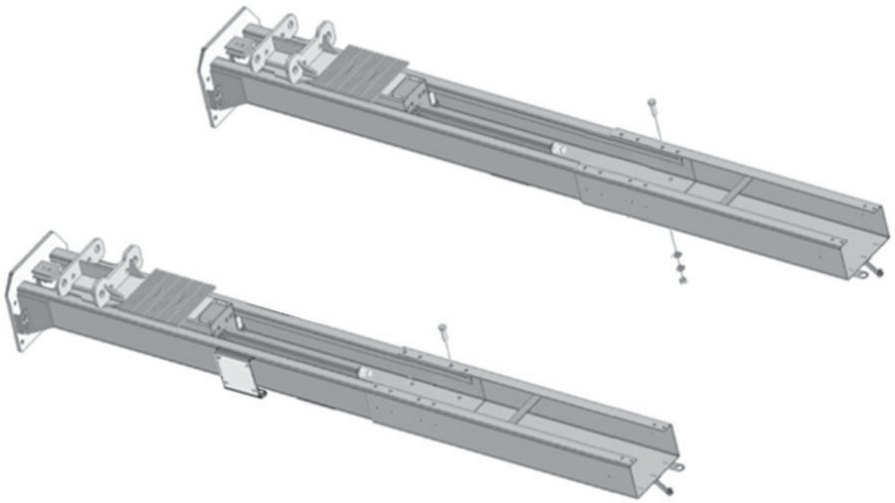
PSEOH-1010, : Not suitable for installation when the height of the workshop is less than 143-3/4"; only low setting installation for height between 143-3/4" - 151-1/2 "; the height of the workshop is greater than 151-1/2", installation can be in both high and low setting;

1. High setting installation, choose the low holes of the outer column and install with the inner column.



High setting
Fig.16

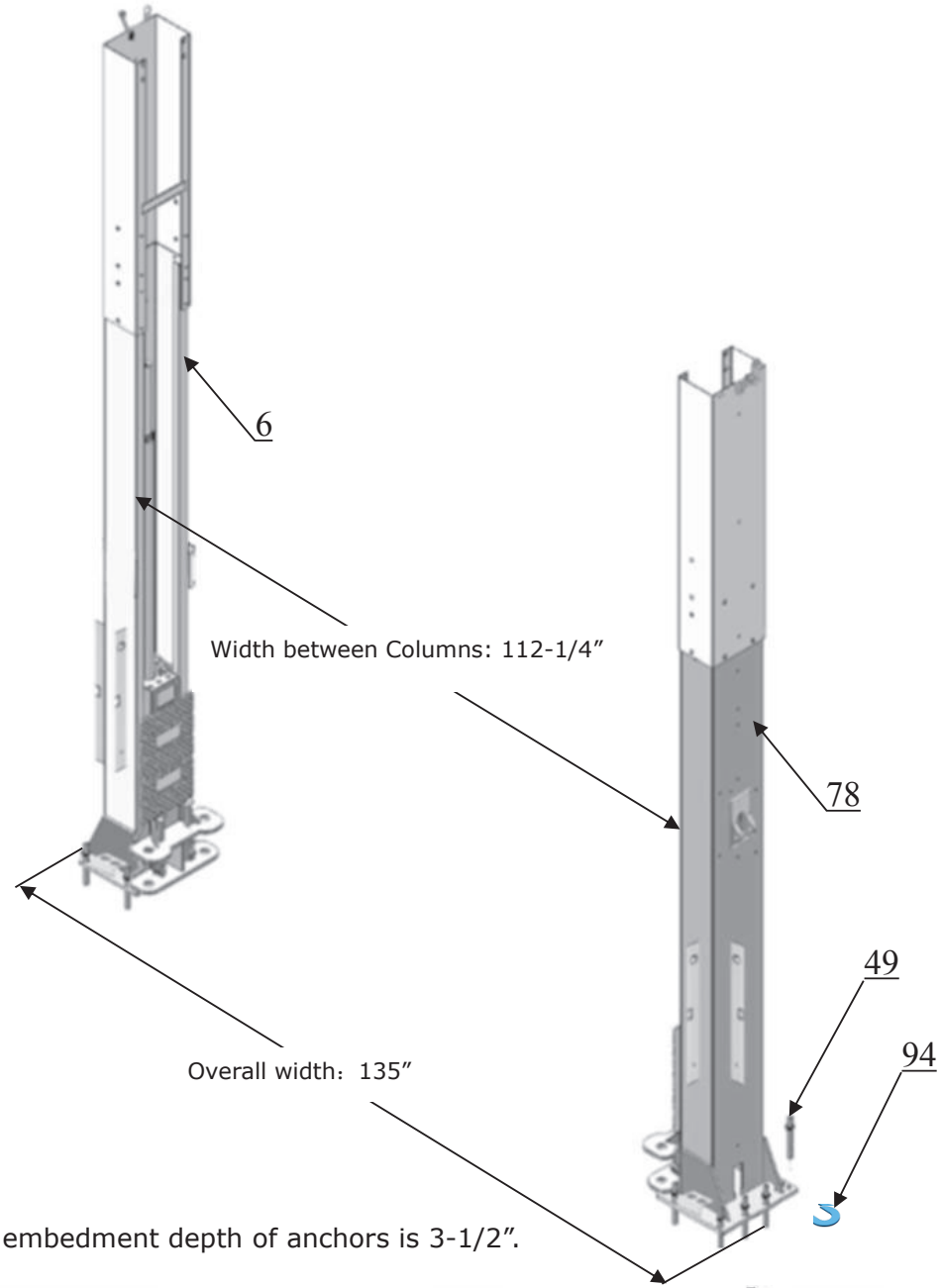
2. Low setting installation, choose the high position holes of the outer column and install with the inner column. (See Fig.17).



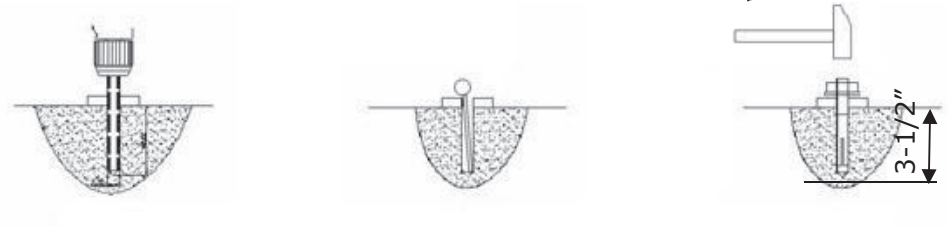
Low setting
Fig.17

F. Position columns (See Fig. 18)

Position the columns on the installation layout of base-plate, Install the anchor bolts. Check the Columns plumpness with level bar, and adjusting with the shims if the columns are not vertical. Do not tighten the Anchor Bolts.



Note: Minimum embedment depth of anchors is 3-1/2”.



Drilling **Cleaning** **Bolting**

Fig. 18

G. Install overhead top beam

1. The hook on the top coupling assembly is hung on the outer column to lock the screws, and then the top beam is installed **(See Fig. 19)**.

Fig. 19

2. Install the top beam, **fix** the anchor bolts.

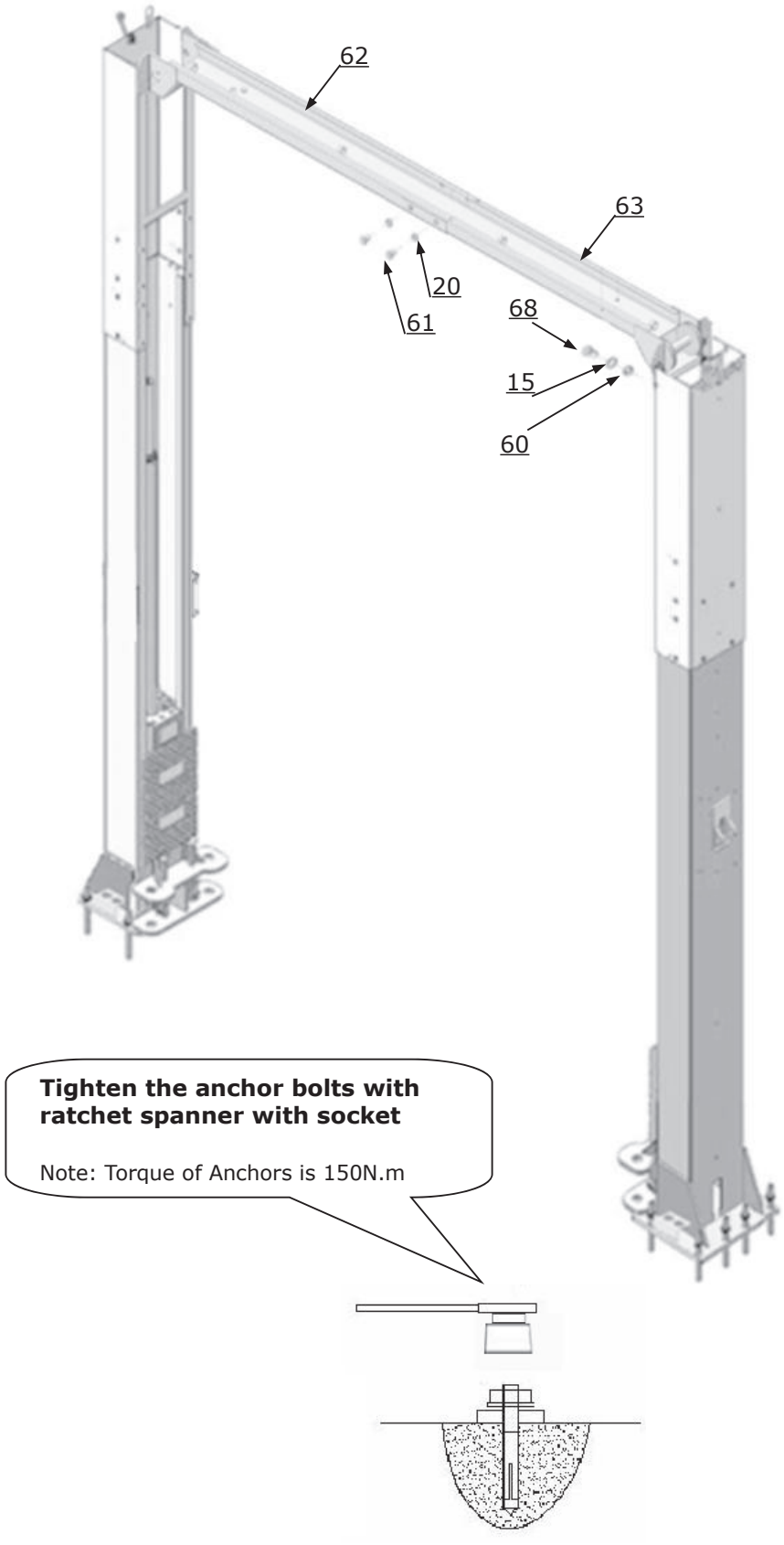


Fig.20

H. Install the limit switch control bar and limit switch (See Fig. 21).

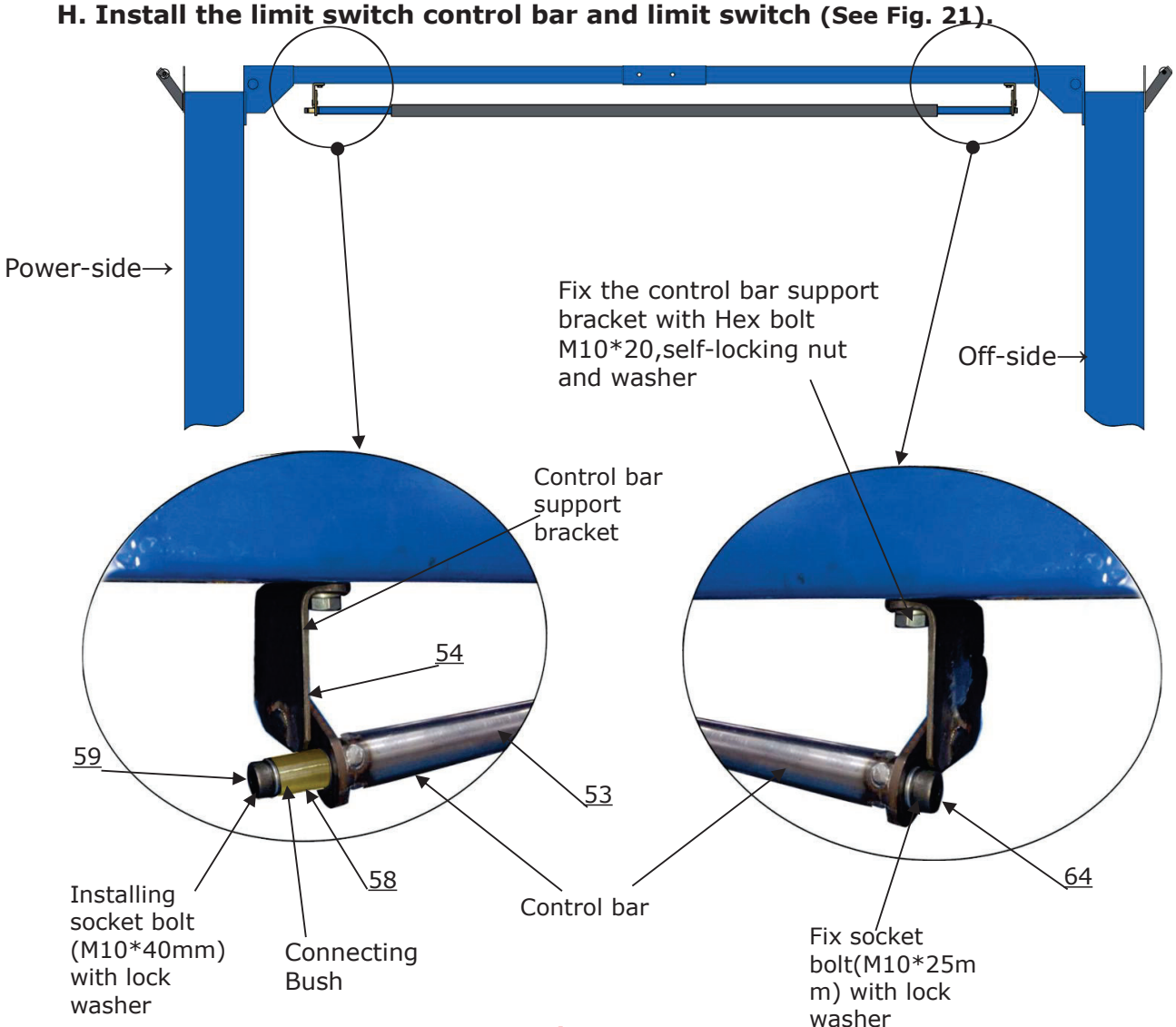
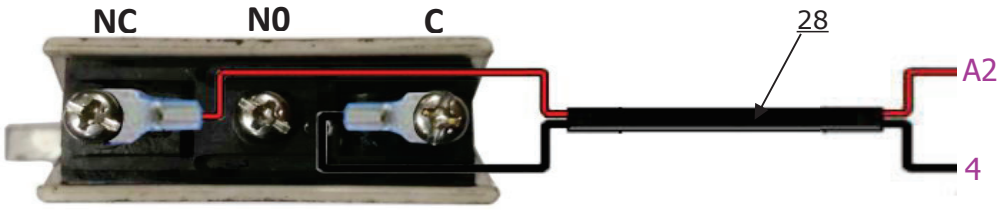


Fig.21

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.



Wire of limit switch

Fig.22

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.

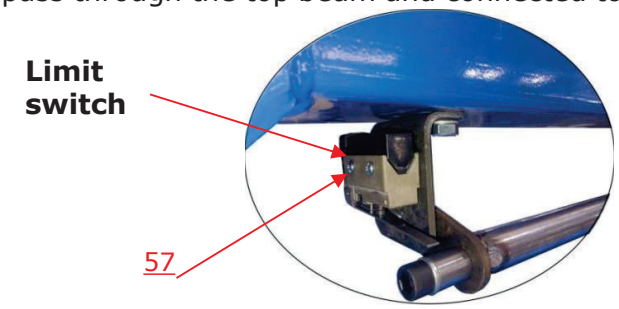
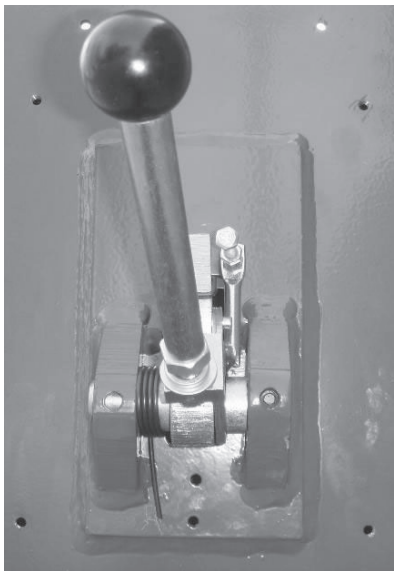
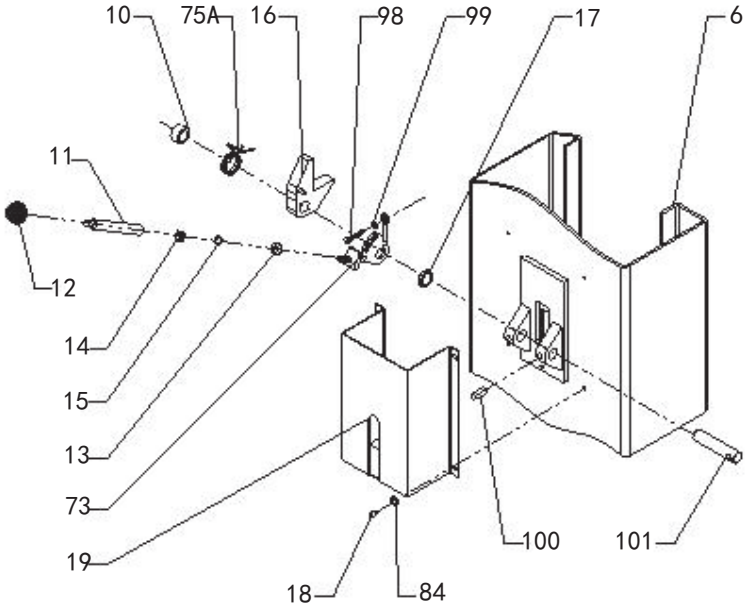


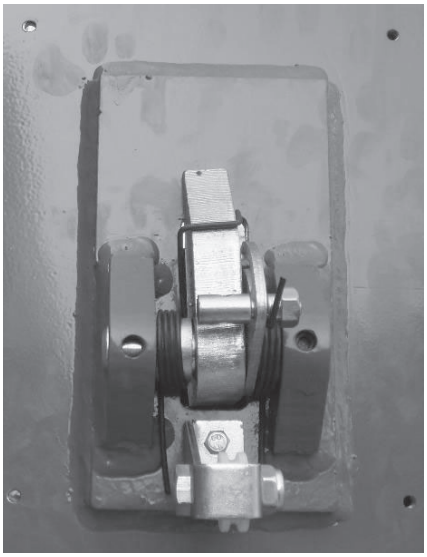
Fig.23

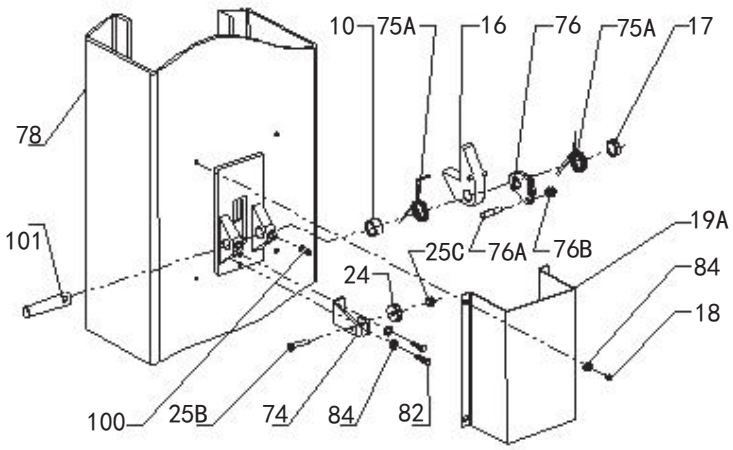
I. Install safety device (See Fig. 24 & Fig. 25).





Power-side safety device
Fig.24





Off-side safety device
Fig.25

J. Install cables.

Lift the carriages up by hand and make them be locked at the same level

1. Low setting cable connection .(See Fig.26) Cable install inside the column.

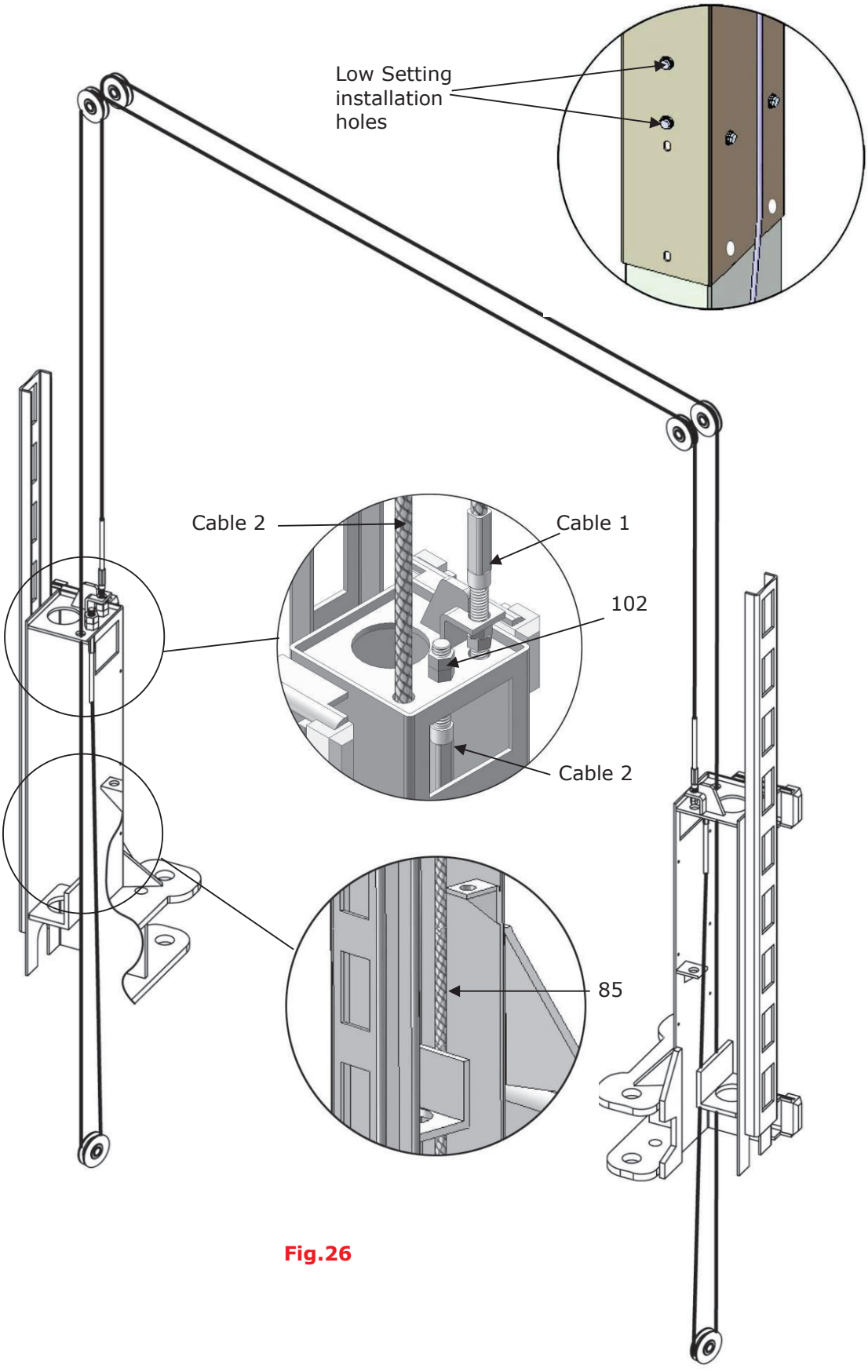


Fig.26

2. High setting cable connection

2.1. Cable cross over from the bottom of the carriages and be pulled out from the open of carriages, then screw the two cable nuts **(See Fig. 27).**

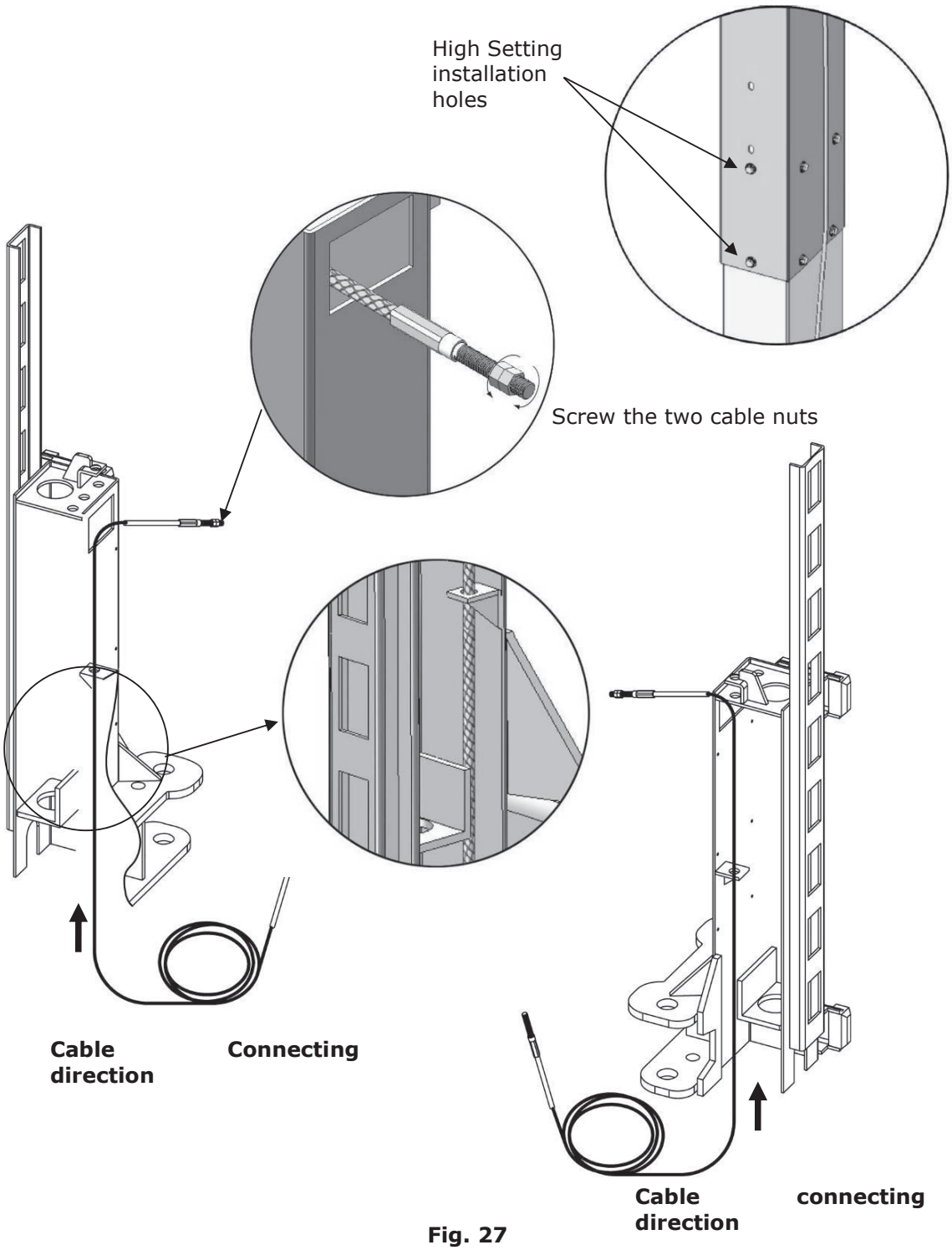


Fig. 27

2.2 Connecting cable for high setting **(See Fig. 28).**

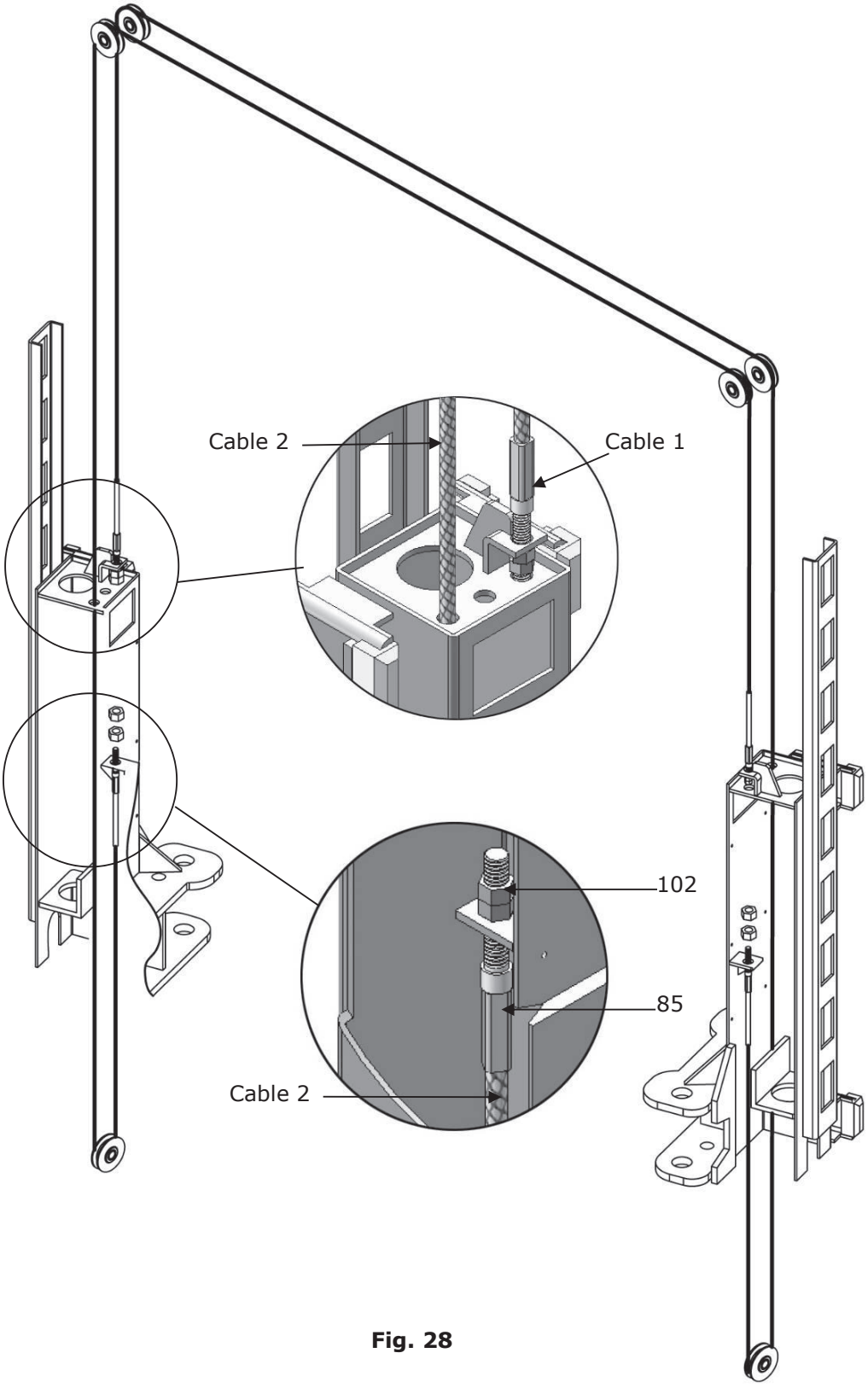


Fig. 28

K. Install oil hose.

1. Oil-line connecting drawing. (See Fig.29)

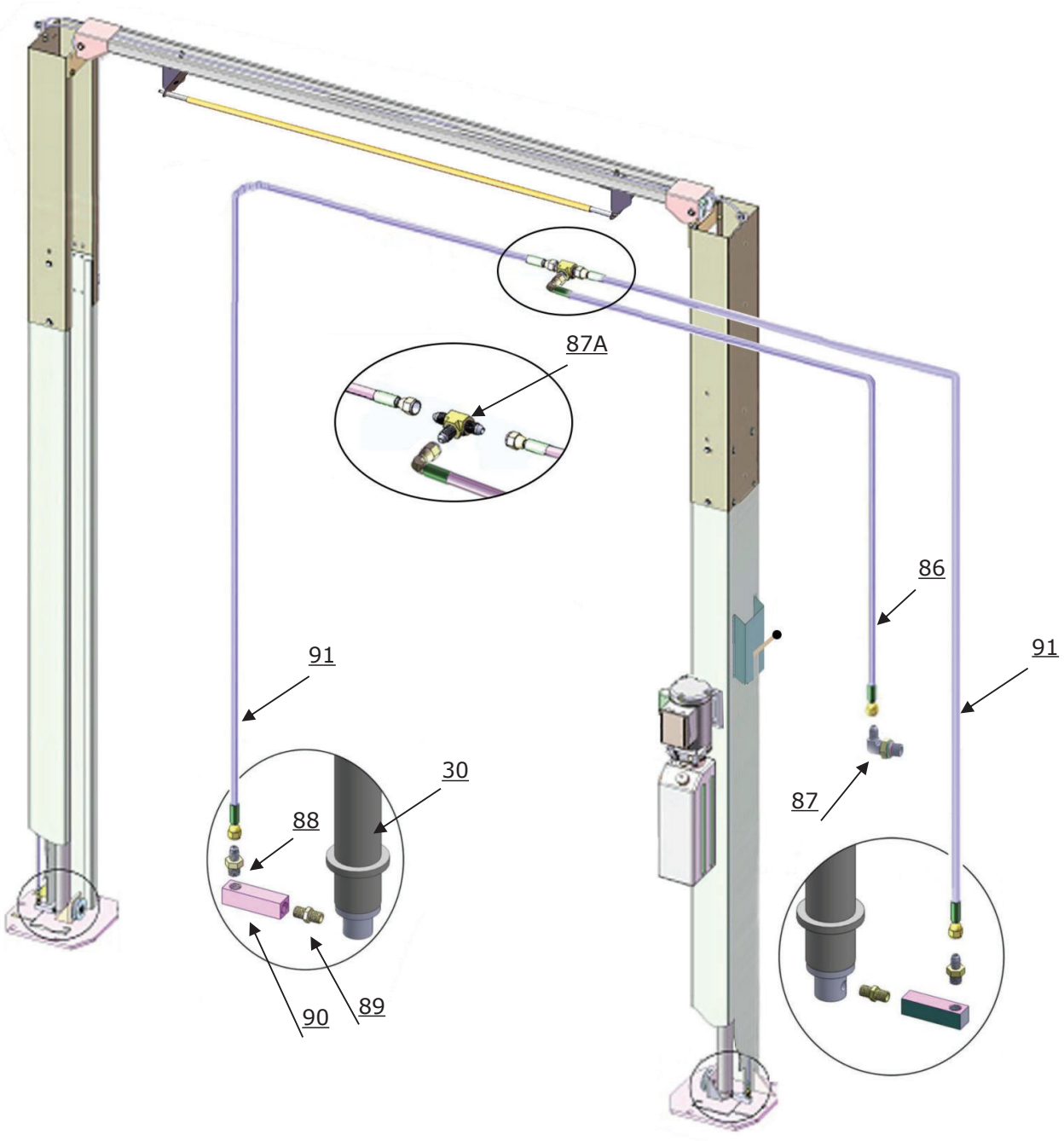
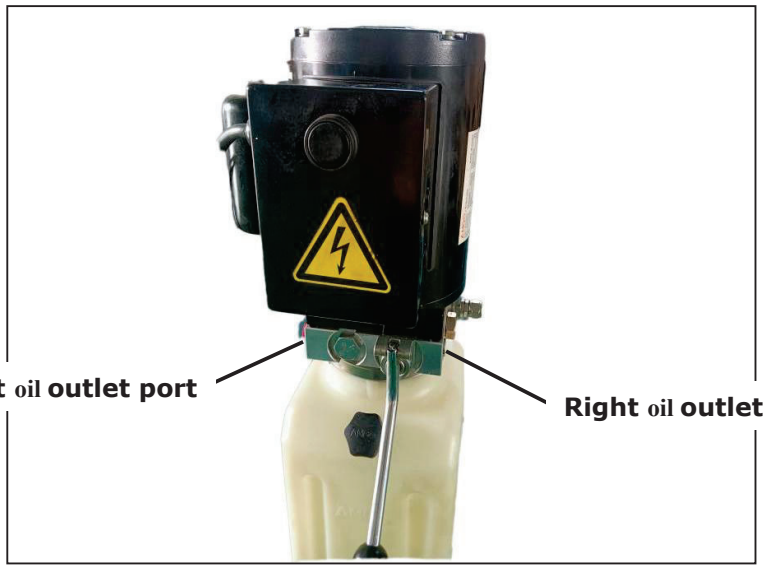
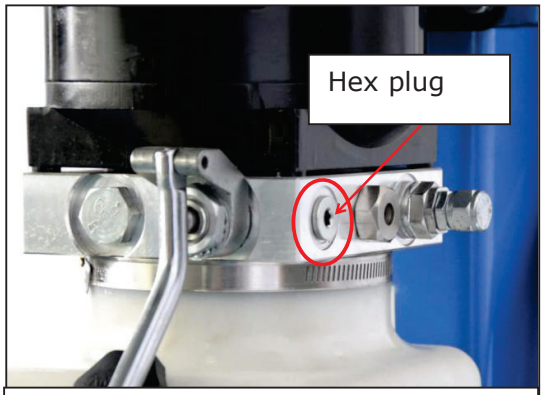


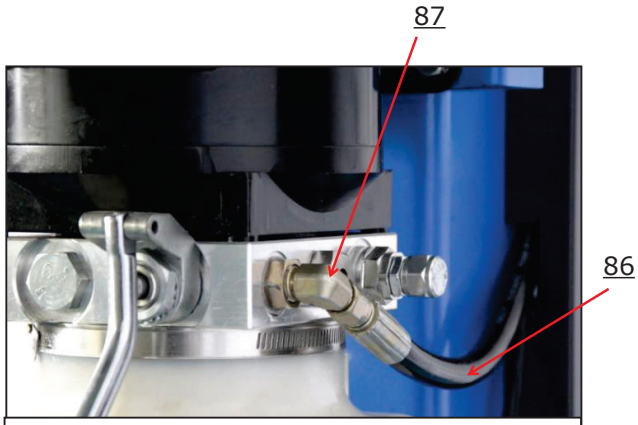
Fig.29

2. Follow these step to connect the oil hose of power unit.

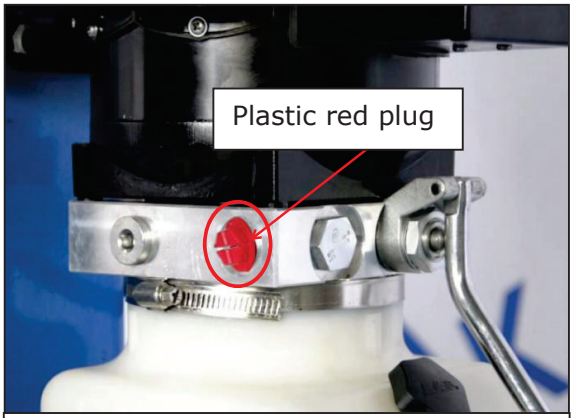




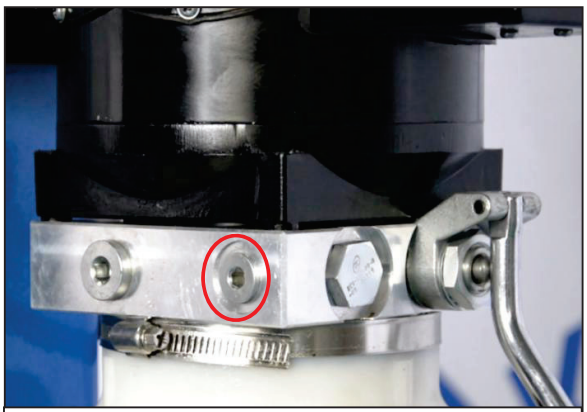
A. Disassemble the hex plug.



B. Assemble 90^0 fitting of power unit, and connecting the oil hose.



C. Disassemble left plastic red plug.



D. Assemble the hex plug by Step A to this left oil inlet port.

Fig.30

L. Install protective cover. (Fig.31)

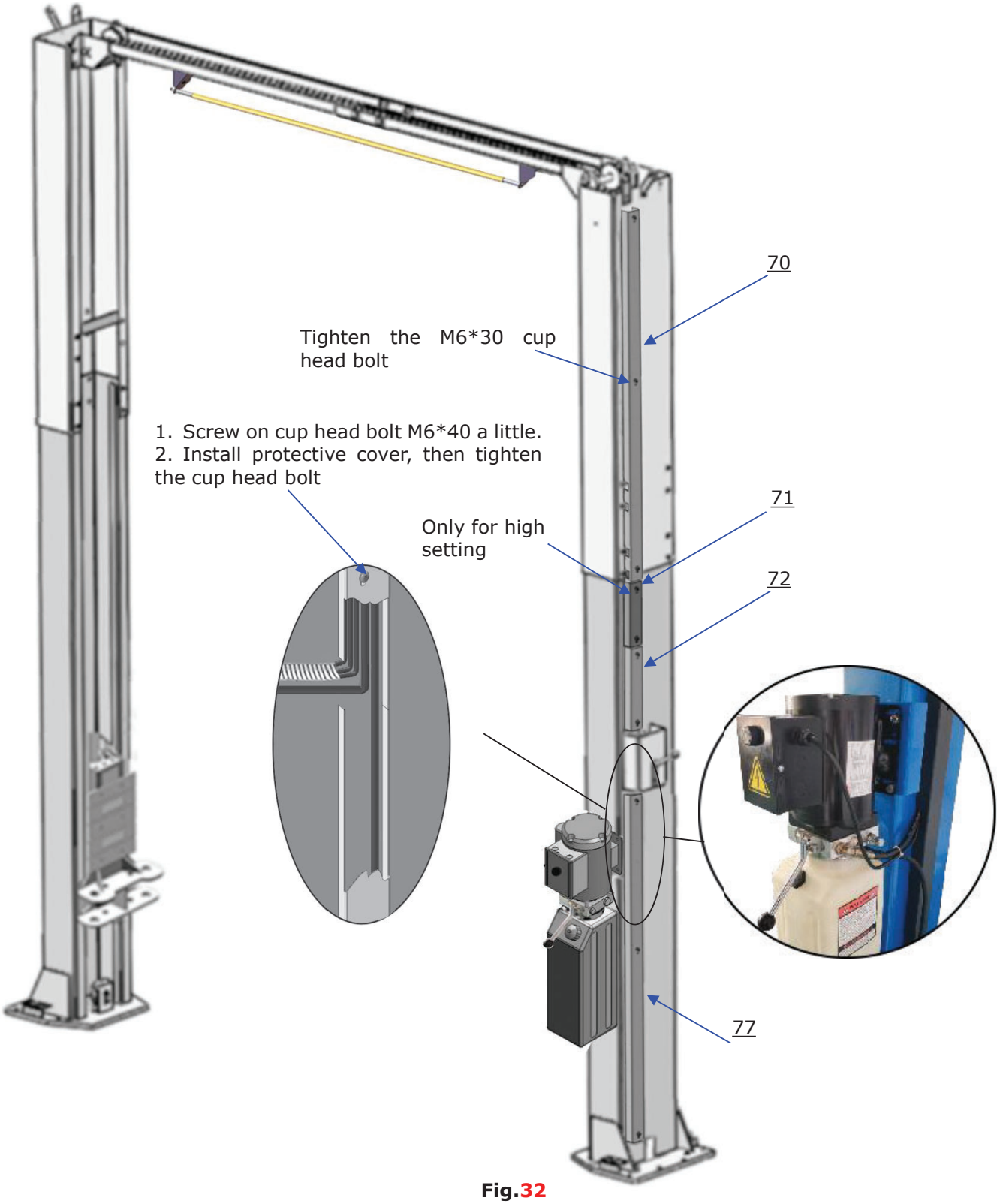


Fig.32

M. Install safety cable (See Fig. 33)

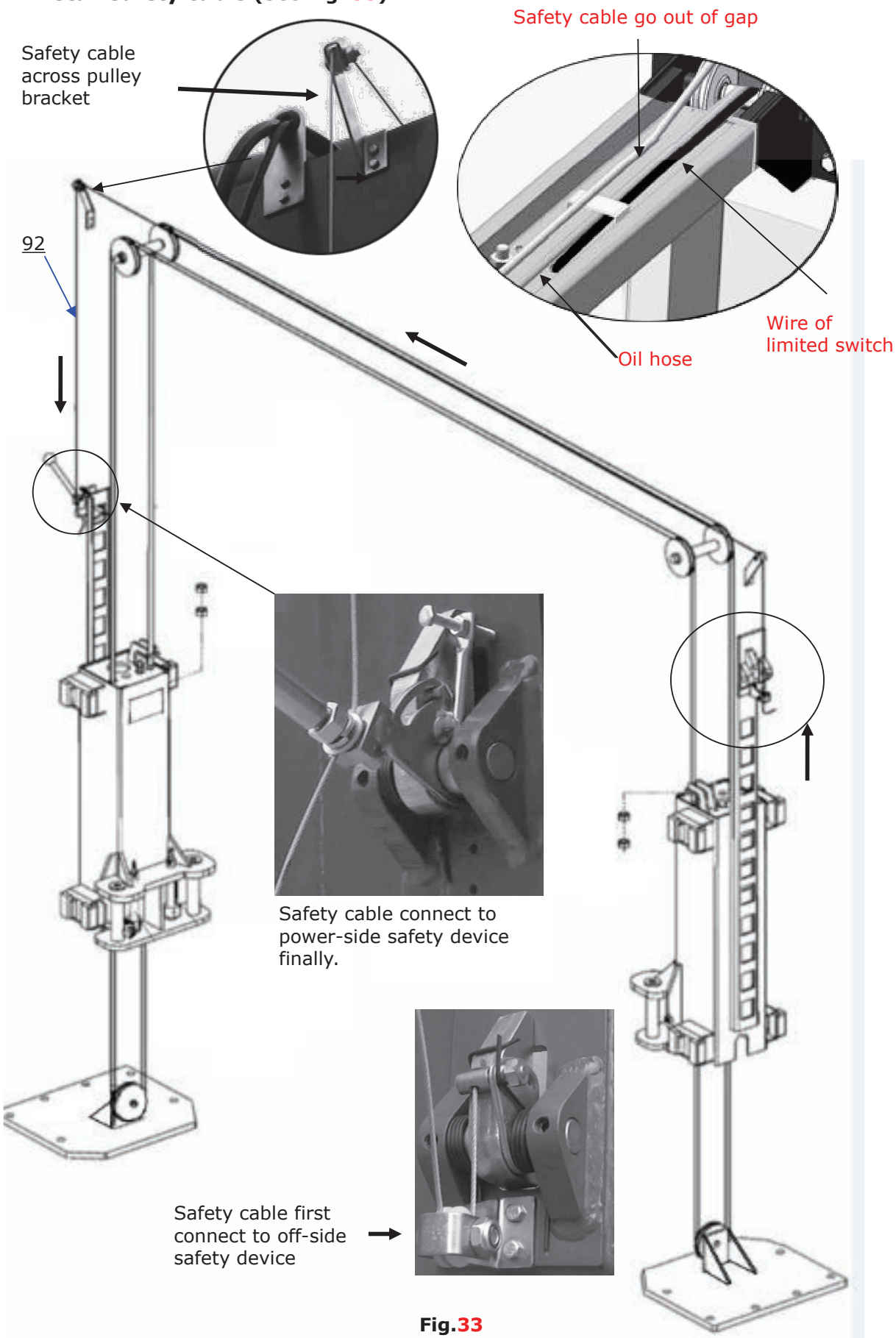
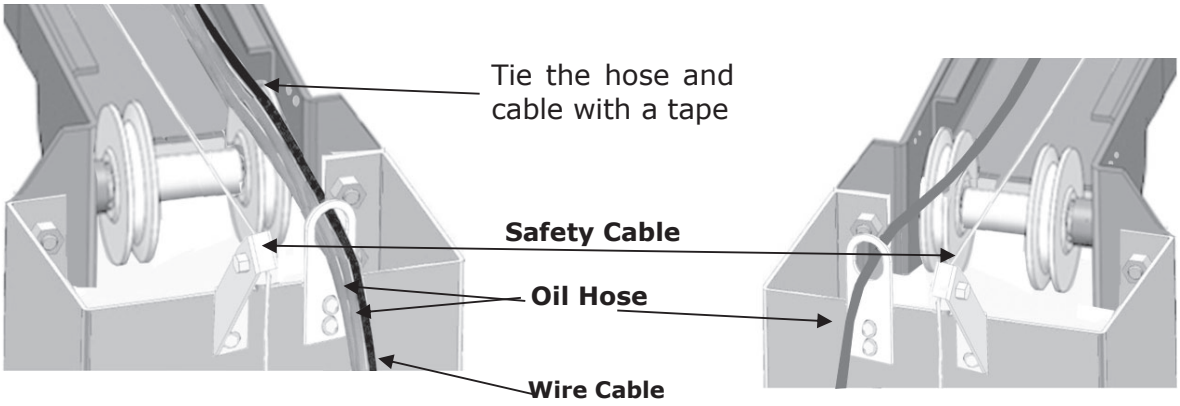


Fig.33

Note: Don't cross the oil hose and safety cable together **(See Fig. 34 & Fig. 35).**



Power-side Safety Device
Fig. 34

Offside Safety Device
Fig. 35

N. Cable limited block Installation.

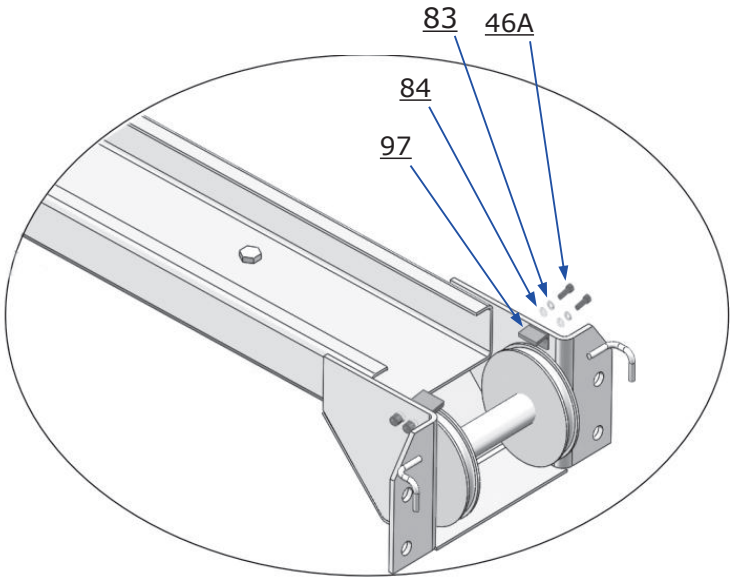


Fig.36

O. Install lifting arms and adjust the arm locks.

1. Install the lifting arms **(See Fig. 37).**
2. Lowing the carriages down to the lowest position, then use the 8# socket head wrench to loosen the socket bolt **(See Fig. 38).**

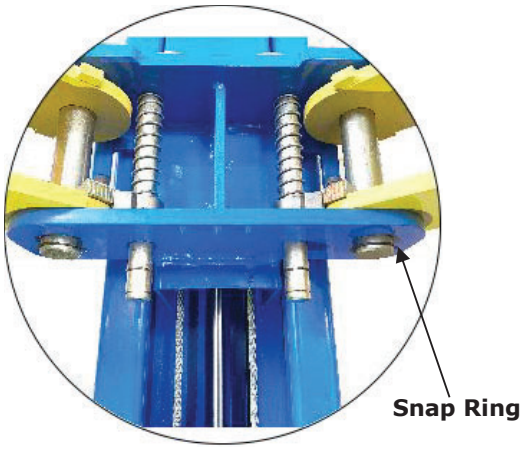


Fig. 37

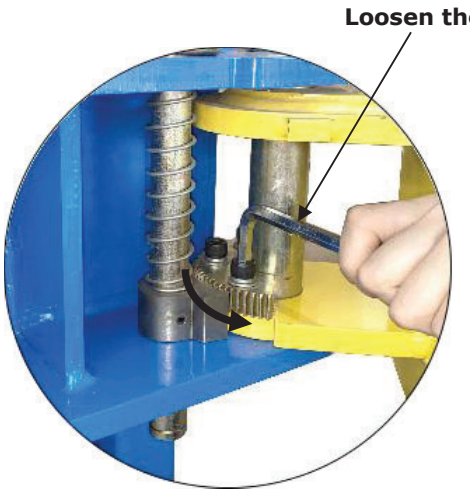


Fig. 38
Use the 8# Socket Head Wrench to loosen the Socket Bolt.

3. Adjust the arm lock as direction of arrow **(See Fig. 39)**

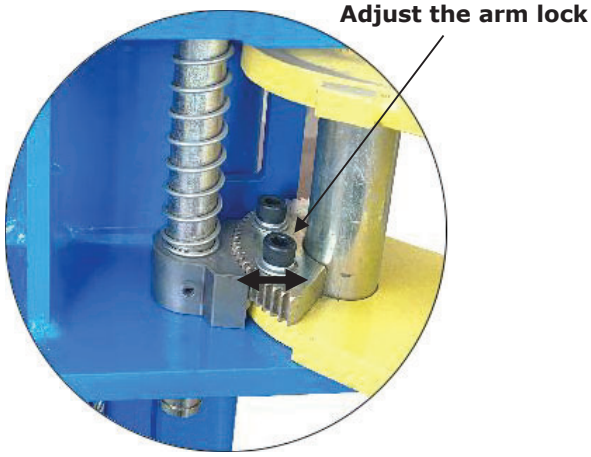


Fig. 39
Adjusting moon gear and arm lock to mesh.

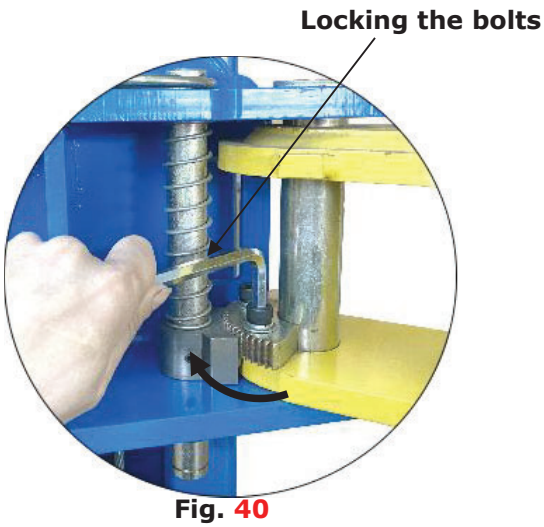


Fig. 40
Locking the bolts after the moon gear and arm lock engaged well.

4. Adjust moon gear and arm lock to make it to be meshed, then tighten the socket bolts of arm lock **(See Fig. 40).**

P. 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 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 wiring (See Fig. 41)

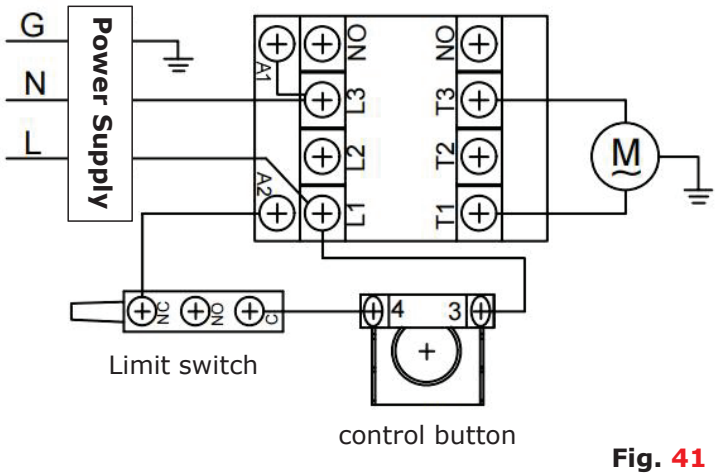
a. When power supply wires are active wire L and neutral wire N ,connecting active wire L to terminals of AC contactor marked L1, connecting neutral wire N to terminals of AC contractor marked L3.

b. When power supply wires are two active wire L ,connecting to terminals of AC contactor marked L1, L3 respectively.

c. Connecting the limit switch: Remove the short wire connecting terminal 4# of control button and A2 of AC contactor firstly (See Fig. 42), 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. 43)

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

Motor wiring diagram of single phase power unit



Circuit diagram

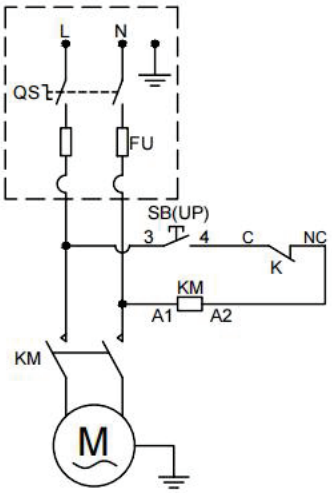


Fig. 41

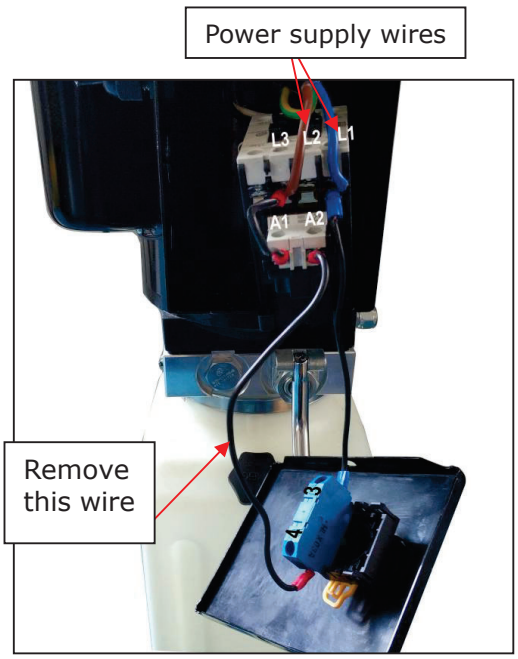


Fig. 42

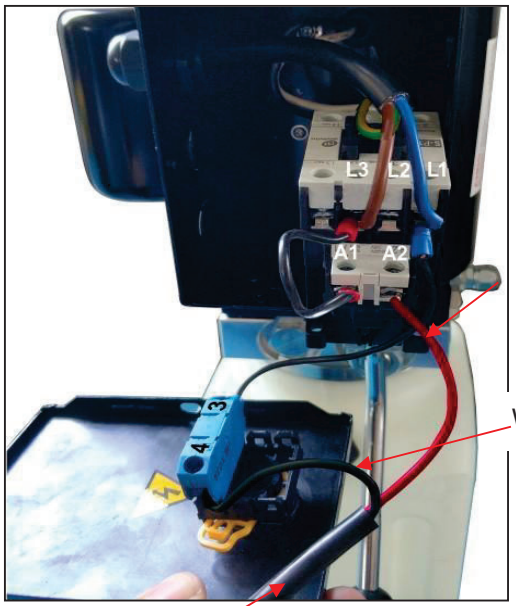


Fig. 43

IV. EXPLODED VIEW

PSEOH-910, PSEOH-1010

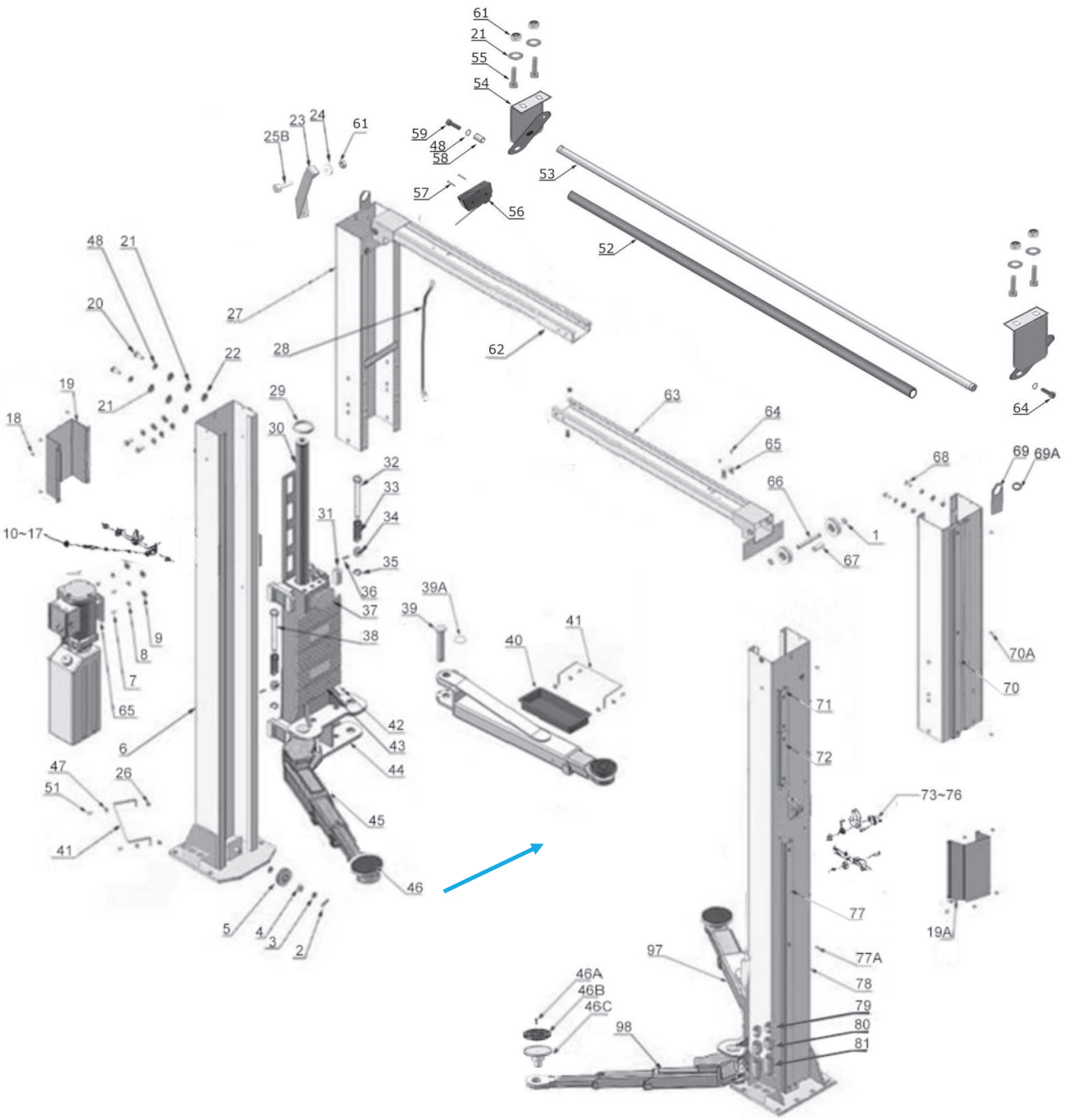


Fig. 44

PARTS LIST PSEOH-910, PSE-1010

Item	Part No.	Description	
1	PSE10206019	Snap Ring φ19	4
2	PSE10209012	Elastic latch φ3.2	2
3	PSE10209128	Washer φ20	4
4	PSE10209057A	Bronzed bush for Pulley Φ*25.4*Φ19.1*14.5	6
5	PSE11206020	Pulley	6
6	PSE11279023	Power-side Inner Column	1
7	PSE10209003	Hex Bolt M8*25	8
8	PSE10209004	Rubber Ring φ8*20*3	4
9	PSE10209005	Self-locking Nut M8	8
10	PSE11217436	Safety device spacer φ27*15	2
11	PSE11217006	Safety device control stick	1
12	PSE10217005	Plastic ball M10	1
13	PSE10206023A	Hex bolt M12	1
14	PSE10420026	Lock Washer φ12	1
15	PSE10206006	Washer φ12	27
16	PSE11217009	Safety device	1
17	PSE11217012	Safety device spacer φ27*10	2
18	PSE10209009	Cap head screw M6*8	10
19	PSE11217405	Cover for power-side safety device	1
19A	PSE11217406	Cover for offside safety device	1
20	PSE10209126	Hex Bolt M10*25	20
21	PSE10209022	Washer φ10	44
22	PSE10209021	Hex Nut M10	20
23	PSE11217379	Safety Cable Bracket	2
24	PSE10206009	Plastic Pulley (white)	3
25	PSE10217013	Hex bolt M6*20	8
25A	PSE10420018	Self-locking nut M6	8
25B	PSE10209046	Hex bolt M10*35	3
26	PSE10209033	Washer φ8	12
27	PSE11206204	Extension Column L=1240mm	2
28	PSE10206137	Wire L=3700	1
29	PSE10209111	Protective Ring for Cylinder	2
30	PSE11217056	Cylinder φ50*1727	2
31	PSE10209015	Slider Block	16
32	PSE11217046A	Arm Lock Bar (left)	2
33	PSE10206050A	Spring	4
34	PSE10217044-01	Arm Lock	4
35	PSE10206032	Snap Ring φ25	4
36	PSE10206036	Hair Pin φ6*40	4
37	PSE10209016	Carriage Plastic Cover	2
38	PSE11217046	Arm Lock Bar (right)	2
39	PSE11217168	Arm pin assy.	4
39A	PSE10520023	Snap Ring φ38	4
40	PSE10206190	Tool tray (Short)	2

Item	Part No.	Description	
41	PSE11206191	Toe guard bar	4
42	PSE10209019	Screw M6*16	12
43	PSE10209018	Protective Rubber	2
44	PSE11279004	Carriage	2
45	PSE10279010	Front right Arm	1
45A	PSE10279009	Front left Arm	1
46	PSE10201046A	Rubber pad assy.	4
46A	PSE10420138	Socket bolt M6*16	12
46B	PSE10209134	Rubber pad	4
46C	PSE11680030C	Rubber pad bracket	4
47	PSE10209034	Lock Washer φ8	14
48	PSE10209039	Lock washer φ10	22
49	PSE10209059	Anchor bolt 3/4*5-1/2	12
50	PSE10206500B	Parts box	1
51	PSE10201002	Hex Bolt M8*16	14
52	PSE10206025A	Foam tube	1
53	PSE110207200A	Control Bar φ22*2400	1
54	PSE1103072003A	Control Bar Support Bracket	2
55	PSE10206017	Hex Bolt M10*20	4
56	PSE1002022001	Limit Switch CZ-7121	1
57	PSE10420164	Cap Head Bolt M4*30	2
58	PSE110207007	Connecting Bush φ14*2*20	1
59	PSE10630100	Socket Bolt M10*40	1
60	PSE10206023	Self-locking Nut M12	14
61	PSE10209056	Self-locking Nut M10	7
62	PSE11206195-01	Top Beam A	1
63	PSE11206196-01	Top Beam B	1
64	PSE10720002	Socket Bolt M10*25	1
65	PSE071101	Power unit	1
66	PSE1127901 6	Pin for Pulley	2
67	PSE11206022	Top Pulley spacer	2
68	PSE102060 24	Hex Bolt M12*25	8
69	PSE11217024	Oil hose retainer	2
69A	PSE1061K074	Wire guard	2
70	PSE11203752	Wire protective cover L=1140	2
70A	PSE10206110	Cap head bolt M6*35	4
71	PSE11279624	Protective Cover(L=200mm)	2
72	PSE11203754-01	Protective Cover(L=385mm)	2
73	PSE11217004	Active safety control block	1
74	PSE11217029	Safety Pulley Bracket	1
75	PSE10217008	Torsion spring φ2.5*145°	1
75A	PSE10217030	Torsion spring φ2.5*120°	2
76	PSE11217031	Driven safety control block	1
76A	PSE10217032	Wire cable connecting pin	1
76B	PSE11217033	Tension nut	1

Item	Part No.	Description	
77	PSE10203778	Protective Cover L=1545	2
77A	PSE10206079	Cap Head Bolt M6*40	14
78	PSE11279024	Offside Inner column	1
79	PSE11209051B	Stackable Adapter (1.5”)	4
80	PSE11209052B	Stackable Adapter (2.5”)	4
81	PSE11209053B	Stackable Adapter (5”)	4
82	PSE10217066	Hex Bolt M6*15	2
83	PSE10209149	Lock Washer φ6	10
84	PSE10420045	Washer φ6	26
85	PSE10206064A	Cable φ9.52*10048mm	2
86	PSE10206132-01	Oil hose 1/4*4470mm	1
87	PSE10209060	90° fitting for power unit	1
87A	PSE10211016	T fitting	1
88	PSE10209064	Straight Fitting	2
89	PSE10206062	Straight Fitting	2
90	PSE10233009	Oil hose straight fitting(square)	2
91	PSE10206130-01	Oil Hose 1/4*5350mm	2
92	PSE10260149	Safety cable φ2.5*7750mm	1
93	PSE10209066	Hex nut M16	8
94	PSE10201090	Shim (1mm)	10
	PSE10620065	Shim (2mm)	10
95	PSE10209152	Ties 3*150mm	4
96	PSE10279011	Rear Arm assy.	2
97	PSE1102075001	Cable limit plate	4
98	PSE10217010	Hex bolt M6*40	1
99	PSE10217011	Hex nut M6	1
100	PSE10217051	Socket bolt M10*10	2
101	PSE11217050	Safety device pin	2
102	PSE10209066	Nut M16	8

4.1 Rear arm assy. (PSE10279011) explosive view

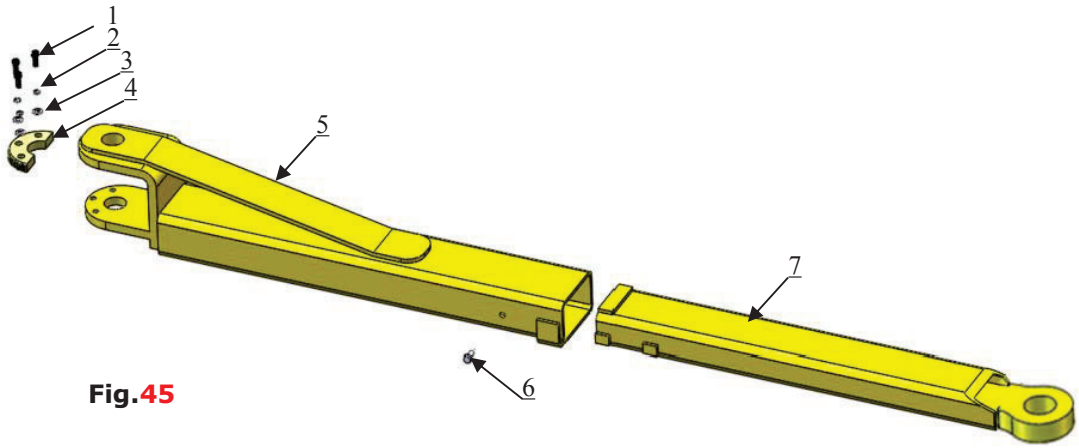


Fig.45

Item	Part No.	Description	QTY.
1	PSE10206048	Hex nut M10*30	6
2	PSE10209039	Washer φ10	6
3	PSE10209022	Washer φ10	6
4	PSE11206049	Moon gear	2
5	PSE11206192	Rear outer arm	2
6	PSE10201149	Cap head bolt M8*12	2
7	PSE11206193	Rear inner arm	2

4.2 Front left arm assy. (PSE10279009) explosive view

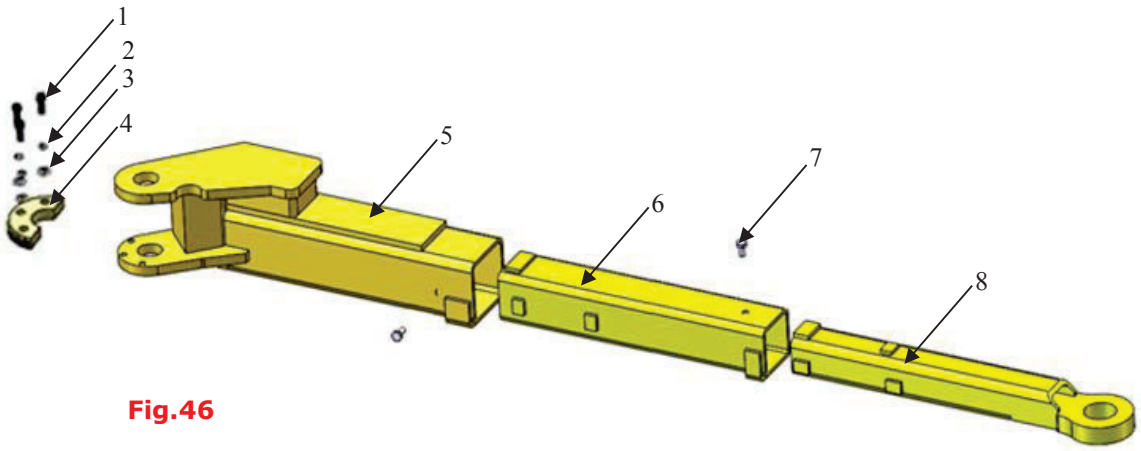


Fig.46

Item	Part No.	Description	QTY.
1	PSE10206048	Hex nut M10*30	3
2	PSE10209039	Lock Washer φ10	3
3	PSE10209022	Washer φ10	3
4	PSE11206049	Moon gear	1
5	PSE11279005	Outer arm - Front left	1
6	PSE11206189	Middle arm - Front	1
7	PSE10201149	Cap head bolt M8*12	2
8	PSE11201049A	Inner arm - Front	1

4.3 Front right arm assy. (PSE10279010) explosive view

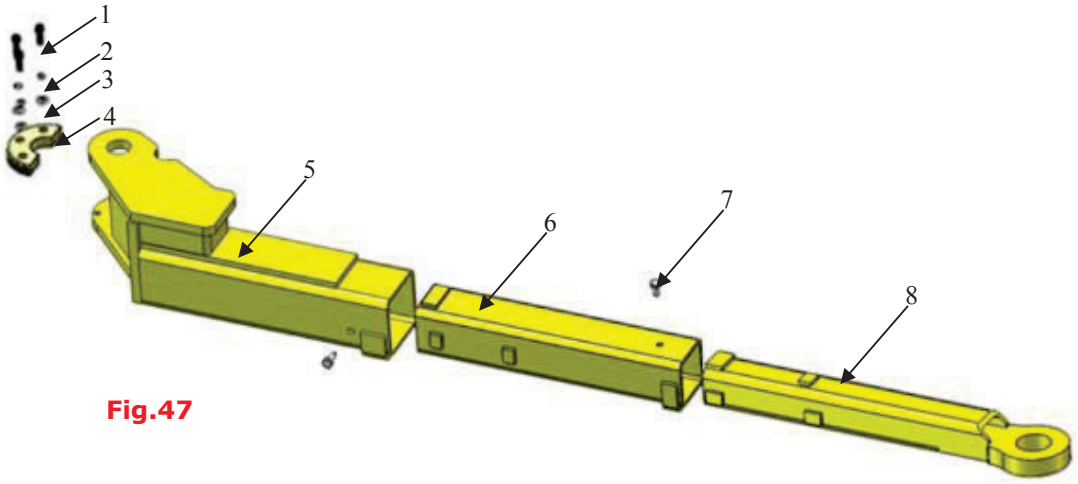


Fig.47

Item	Part No.	Description	QTY.
1	PSE10206048	Hex nut M10*30	3
2	PSE10209039	Lock Washer φ10	3
3	PSE10209022	Washer φ10	3
4	PSE11206049	Moon gear	1
5	PSE11279006	Outer arm - Front right	1
6	PSE11206189	Middle arm - Front	1
7	PSE10201149	Cap head bolt M8*12	2
8	PSE11201049A	Inner arm - Front	1

4.4 Cylinder (PSE11217056) explosive view

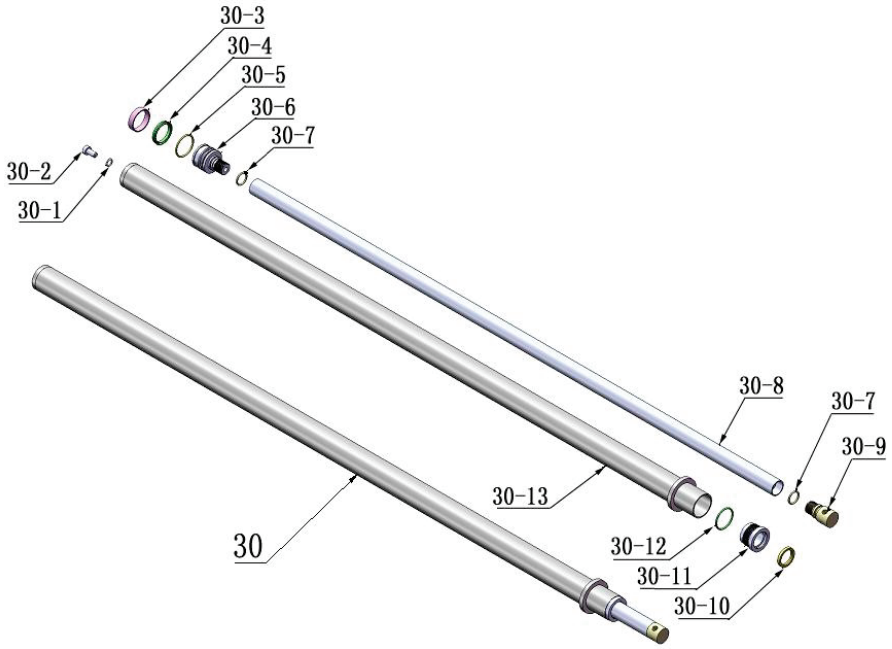


Fig. 48

Part list for cylinder

Item	Part No.	Description	QTY.
30-1	PSE10209069	O-ring	2
30-2	PSE10209070	Bleeding Plug	2
30-3	PSE10209071	Support Ring	2
30-4	PSE10209072	Y-ring OSI	2
30-5	PSE10209073	O-ring	2
30-6	PSE11209074	Piston	2
30-7	PSE10209075	O-Ring	2
30-8	PSE11217076	Piston rod	2
30-9	PSE11209077	Piston Rod Fitting	2
30-10	PSE10209078	Dust ring	2
30-11	PSE11209079	End cap	2
30-12	PSE10209080	O ring	2
30-13	PSE11209081A	Bore Weldment	2

4.5 Power unit (PSE071101) explosive view

single phase,220V/60HZ

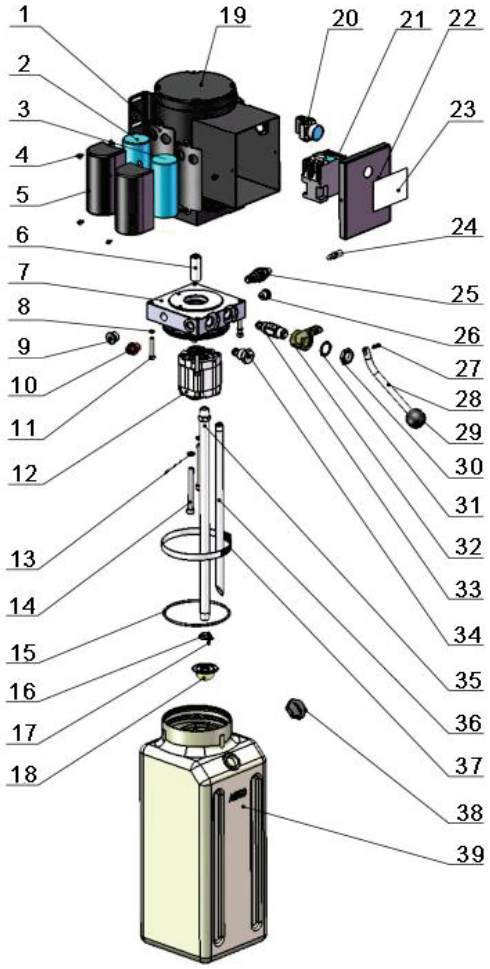


Fig. 49

Part list of power unit (220V/60HZ/single phase)

Item	Part No.	Description	QTY.	Item	Part No.	Description	QTY.
1	PSE81400180	Rubber pad	2	21	41030055	AC contractor	1
2	PSE81400250	Starting capacitor	1	22	81400287	Motor wiring cover	1
3	PSE81400200	Running capacitor	1	23	71111104	AMGO label	1
4	PSE10420148	Screw with washer	4	24	81400560	Throttle valve	1
5	PSE81400066	Capacitor cover	2	25	81400266	Relief valve	1
6	PSE81400363	Motor connector	1	26	81400284	Plug	1
7	PSE80101013	Manifold block	1	27	10720118	Elastic pin	1
8	PSE10209149	Washer	4	28	81400451	Release handle	1
9	PSE81400276	Iron Plug	1	29	10209020	Plastic ball for handle	1
10	PSE81400259	Red rubber plug	1	30	81400421	Release valve nut	1
11	PSE85090142	Hex bolt	4	31	81400422	Self-locking washer	1
12	PSE81400280	Gear pump	1	32	81400449	valve seat(short)	1
13	PSE10209034	washer	2	33	81400567	Release valve	1
14	PSE81400295	Hex nut	2	34	81400566	Check valve	1
15	PSE81400365	O-ring	1	35	81400288	Oil suction hose	1
16	PSE10209152	Ties	1	36	81400289	Oil return hose	1
17	PSE85090167	Magnet	1	37	81400364	Clamp(stainless steel)	1
18	PSE81400290	Filter	1	38	81400263	Oil tank cap	1
19	PSE81400413	Motor	1	39	81400275	Oil tank	1
20	PSE10420070	Button switch	1				

4.6 Illustration of hydraulic valve for hydraulic power unit

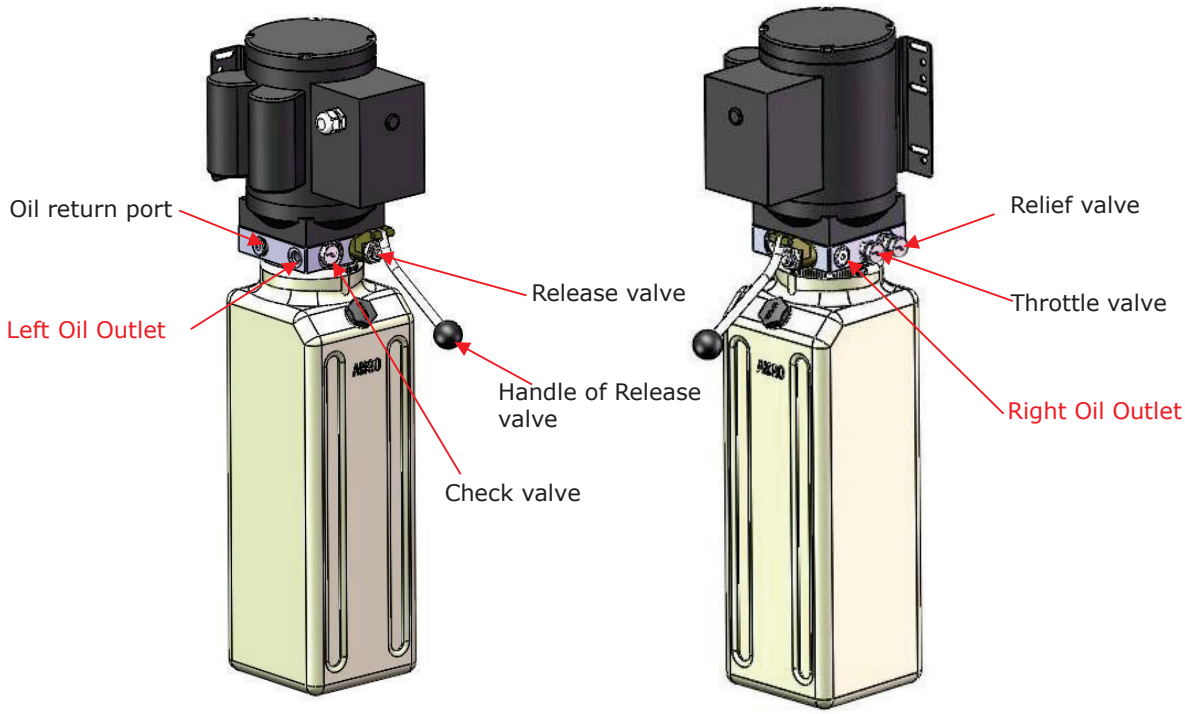


Fig.50

V. TEST RUN

1. Adjustment of synchronous cable (See Fig. 51)

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.

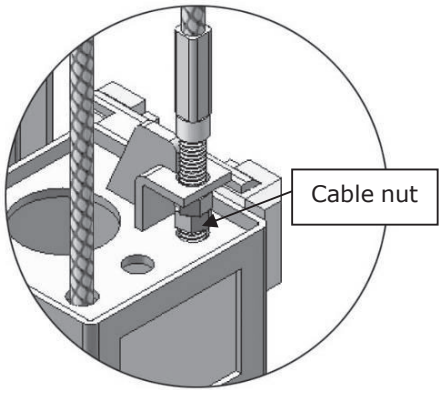


Fig. 51

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. 52)

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.

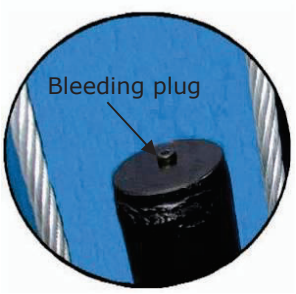
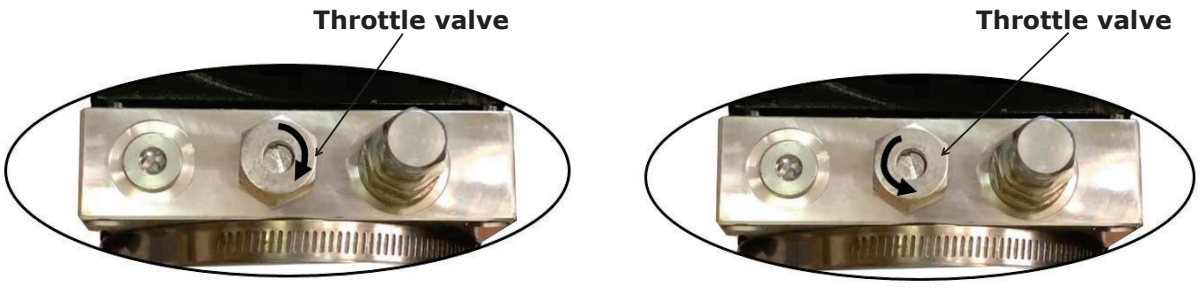


Fig. 52

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. 53

5. Test with load

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

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

Hydraulic System

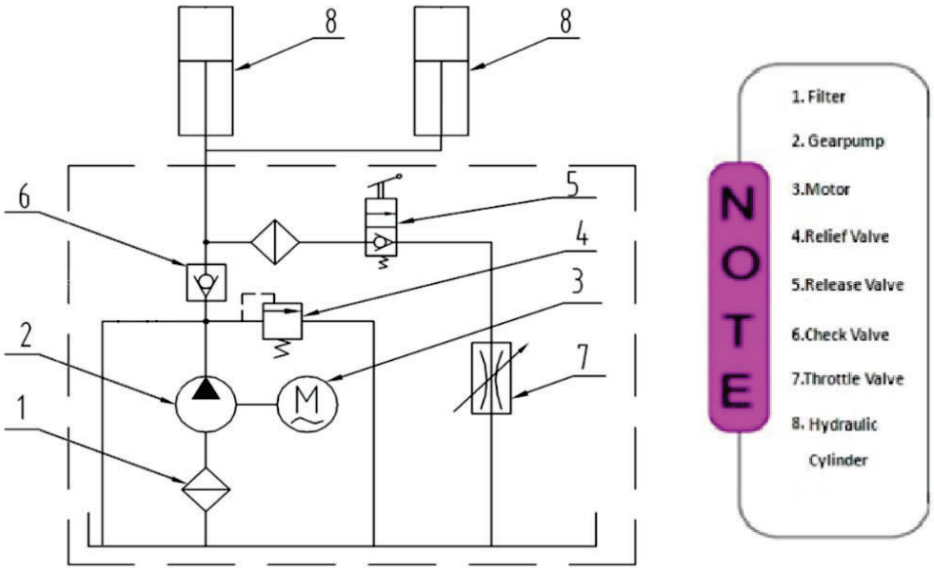


Fig.54

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 contact the vehicle's lifting point at the same time 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 release 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 release handle.
3. Open the arms and position them to the shortest length;
4. Drive away the vehicle.
5. Turn off the power.

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 with 150 N·M;
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 is malfunction for any reason, DO NOT use the lift until the bolt has been replaced.

Every six months:

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

Oil cylinder maintenance:

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

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

VIII.TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	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	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	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 too slow	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. Replace Pump 5. Check load
Lift cannot lower	1. Safety device are in activated 2. Release Valve in damage 3. Safety cable broken 4. Oil system is jammed	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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