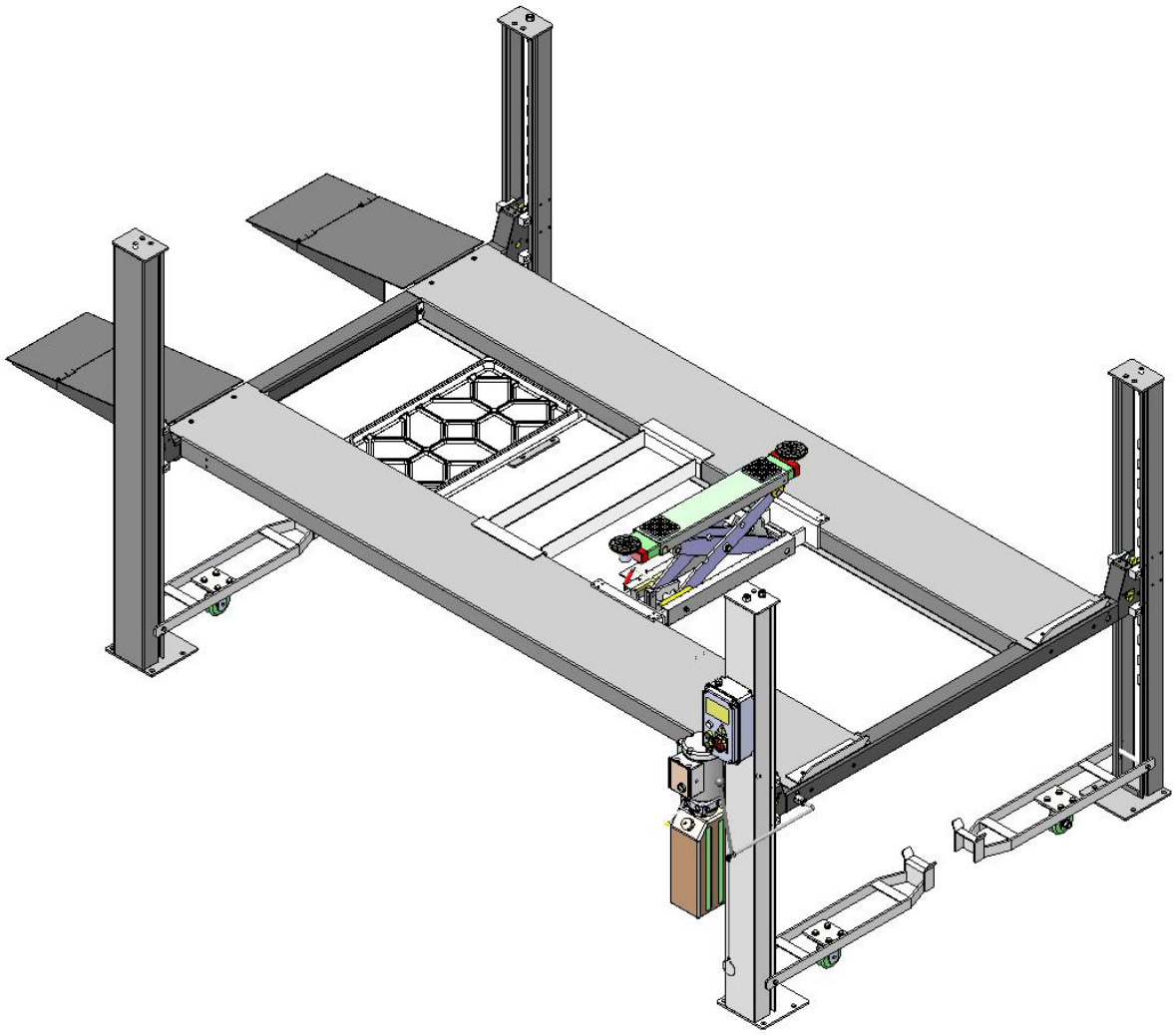
AMGO®

Original

Installation And Service Manual



FOUR-POST PARKING LIFT

Model: A430-HP

CONTENTS

I. PRODUCT FEATURES AND SPECIFICATIONS

4-POST MODEL A430-HP FEATURES

- Single point manual safety release.
- Four mechanical locking devices, each equipped with both primary and secondly safety locks.
- Power-side column can be installed at both side, front or rear.
- Non-skid diamond platforms and adjustable safety lock ladders.
- Optional kits**:** Sliding jack with hand pump, caster kits, Plastic oil tray.

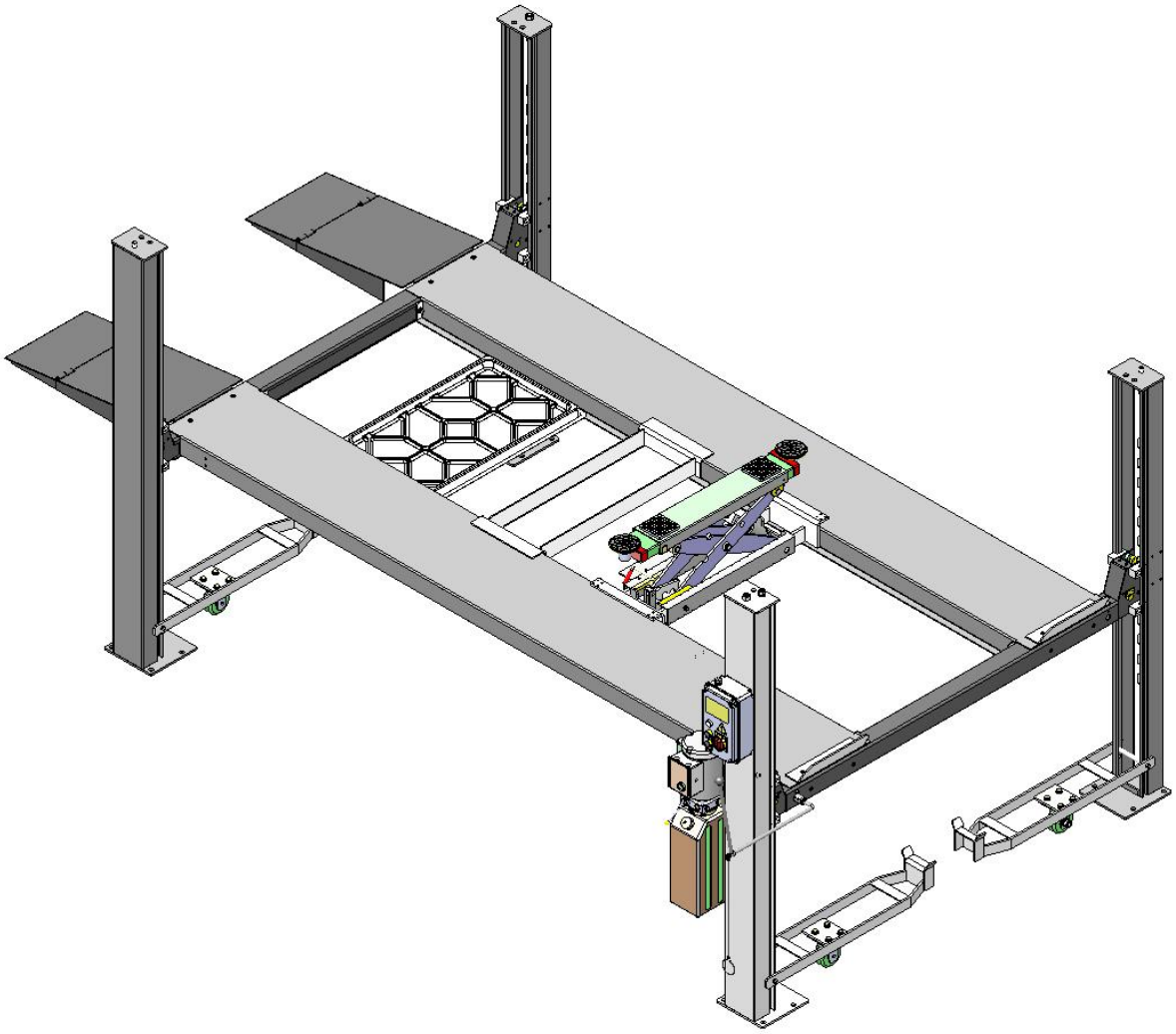


Fig.1

MODEL A430-HP SPECIFICATIONS

Model	Lifting Capacity	Lifting Height	Lifting Time	Overall Length (Inc. Ramps)	Overall Width	Overall height	Width Between Columns	Motor
A430-HP	3000KG	2120mm	35S	5007mm	2409mm	2455mm	2167mm	220V：3.0HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

✓ Tape Measure（7.5m ）

✓ Carpenter's Chalk

✓ Hammer

✓ Screw Sets

✓ Level Bar

✓ Pliers

✓ English Spanner (12")

✓ Lock Wrench

✓ Wrench set：(12#、13#、14#、15#、17#、19#
24#、30#)

✓ Socket Head Wrench：（3#、5#、6#、8#）

Fig.2

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.3

D. SPECIFICATIONS OF CONCRETE (See Fig. 4)

Specifications of concrete must be adhered to the specification as following.

Failure to do so may result in lift and/or vehicle falling.

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

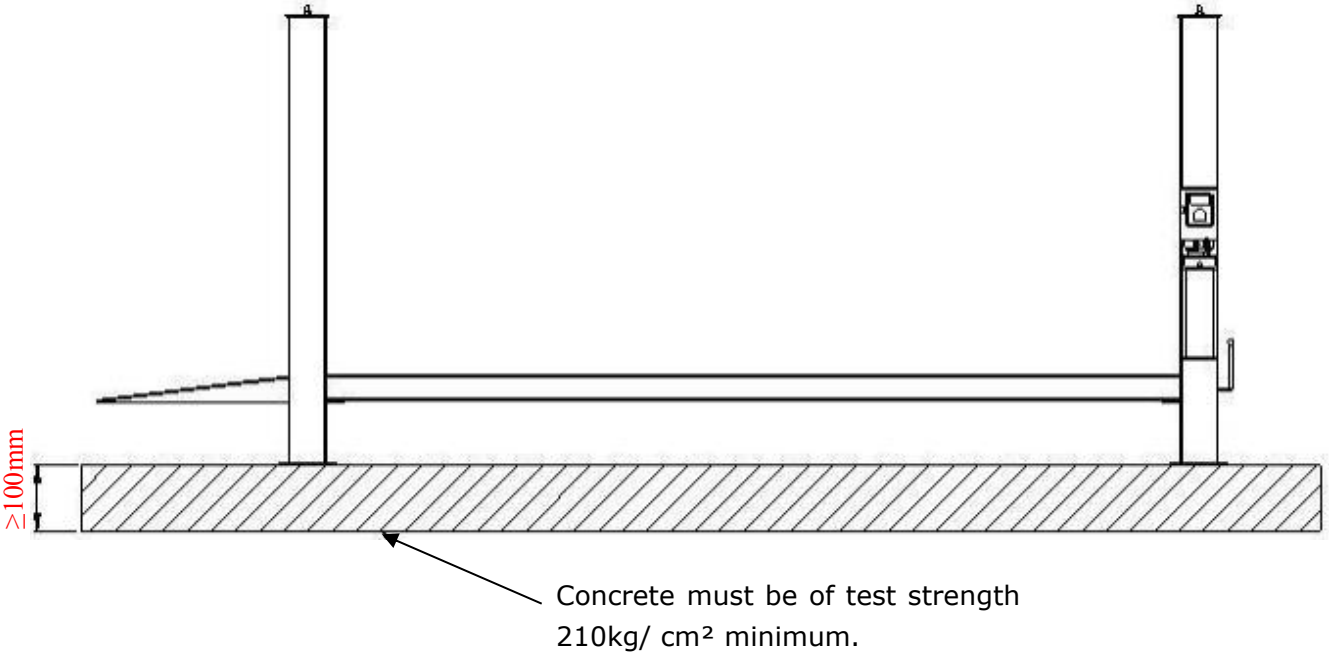


Fig.4

E. POWER SUPPLY

The electrical source must be 2.2KW minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. STEPS OF INSTALLATION

A. Check the parts before assembly

1. Packaged lift and Hydraulic Power Unit **(See Fig. 5)**.

Fig.5

(Optional) Plastic oil tray

2. Open the outer packing carefully, check the parts according to the shipment list. **(See Fig. 6)**.

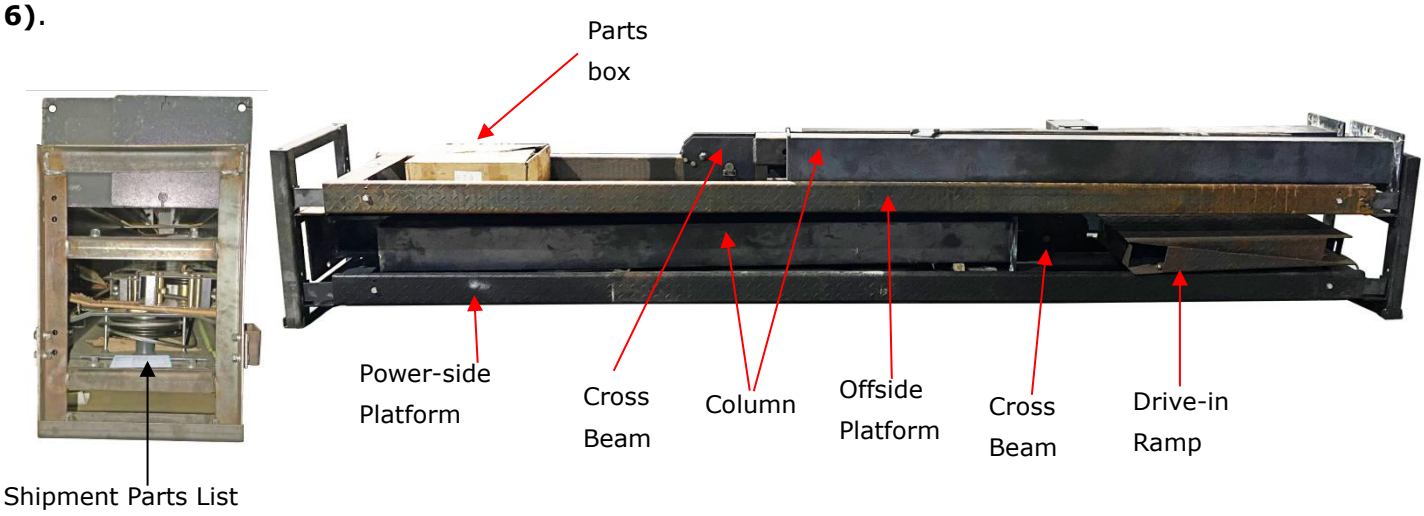


Fig.6

3. Take off the drive-in ramps and columns **(See Fig.7)**.

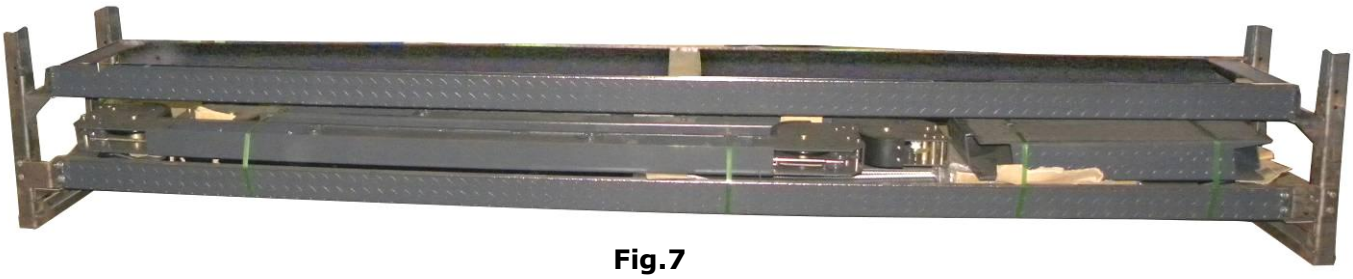


Fig.7

4. Loosen the screws of the upper package stand, take off the offside platform, take out the parts inside the power-side platform, then remove the package stand.

5. Move aside the parts and check the parts according to the shipment parts list **(See Fig. 8).**

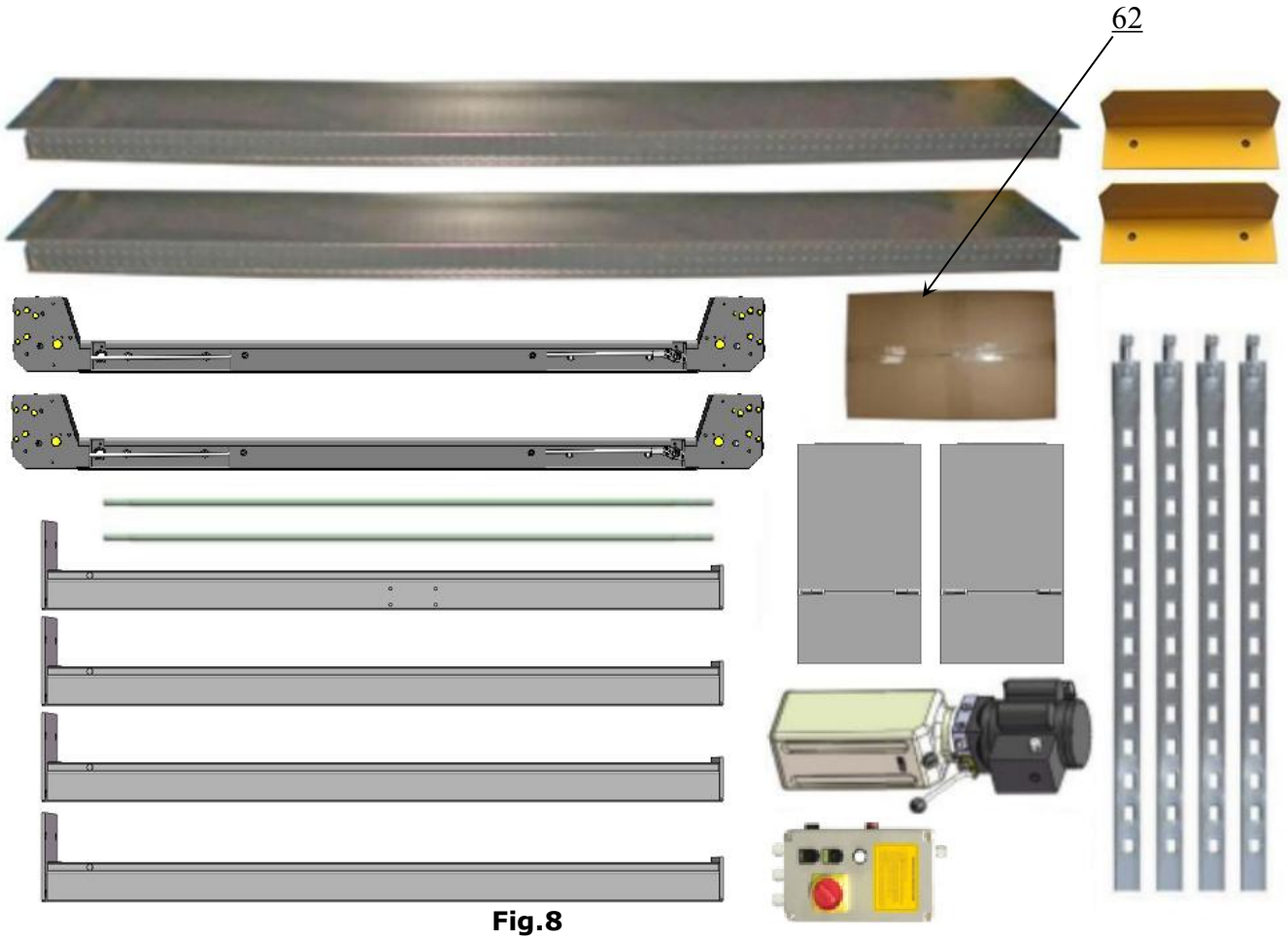


Fig.8

6. Open the carton of parts and check the parts according to the parts box list (**See Fig. 9**).

Fig.9

7. Check the parts of the parts bag according to the parts bag list **(See Fig. 10)**.

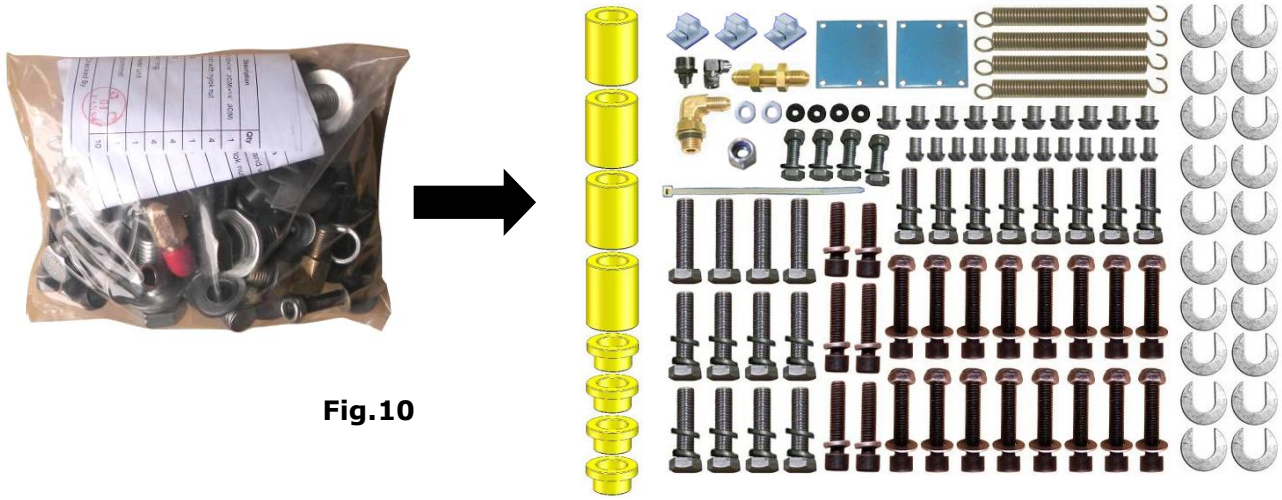


Fig.10

B. Use a carpenter's chalk line to establish installation layout as per Table 1

Make sure the size is right and base is flat **(see Fig. 11).**

Note: Reserve appropriate space in front and behind the installation site.

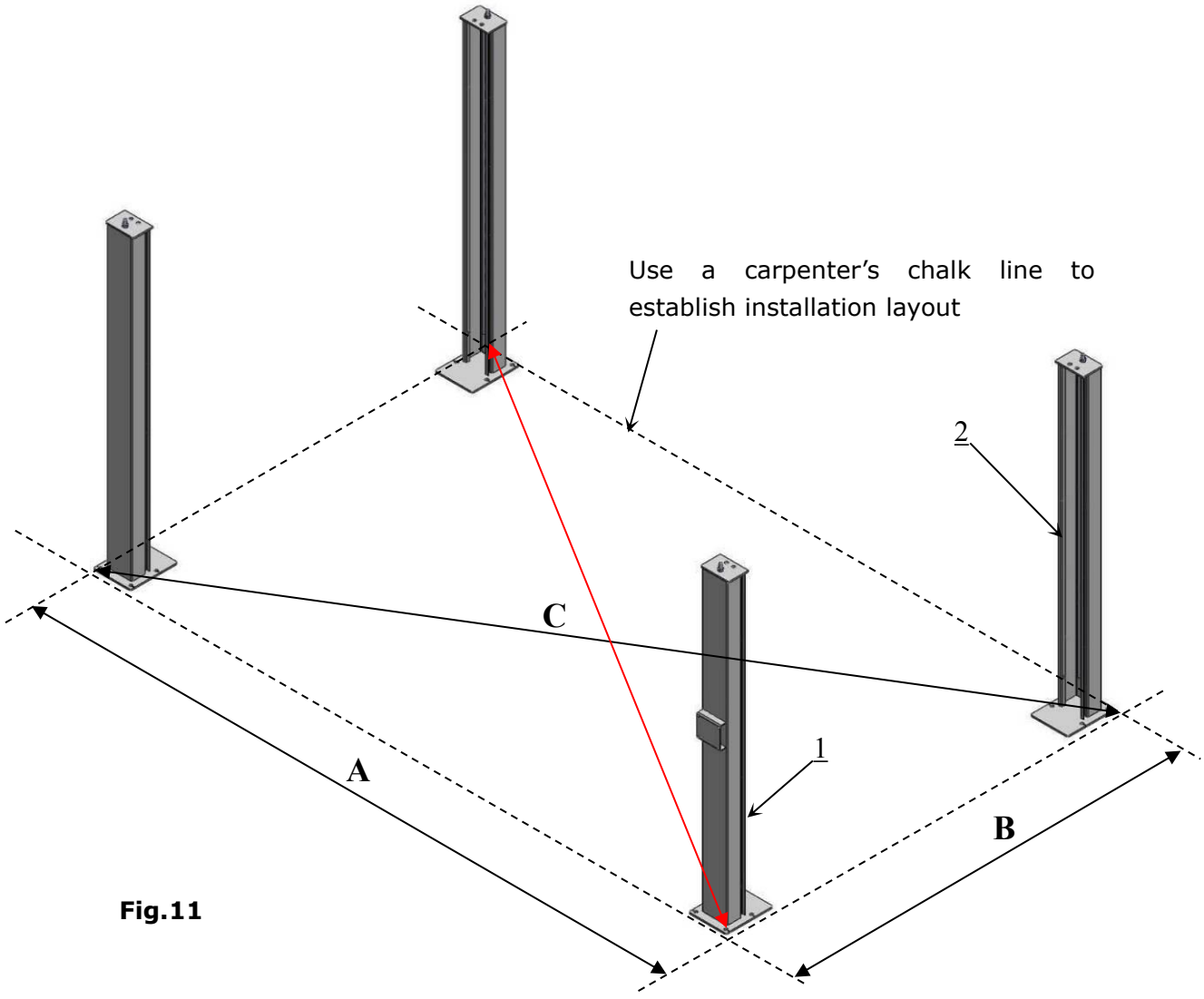
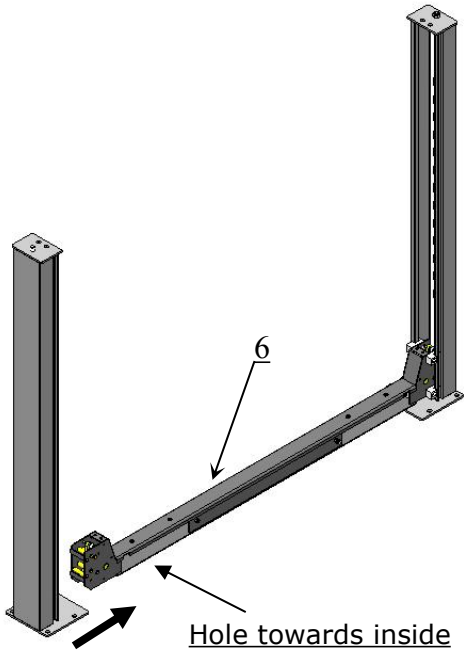


Fig.11

MODEL	A	B	C
A430-HP	4164mm	2409mm	4811mm

C. Install cross beams (See Fig.12, Fig.13).

Note: Pay attention that the cross beam's slot should be positioned towards inward and the safety locks connecting assy. should be adjacent to the power unit column.



The power-side column need to be installed according to the installed position of the safety lock release handle.

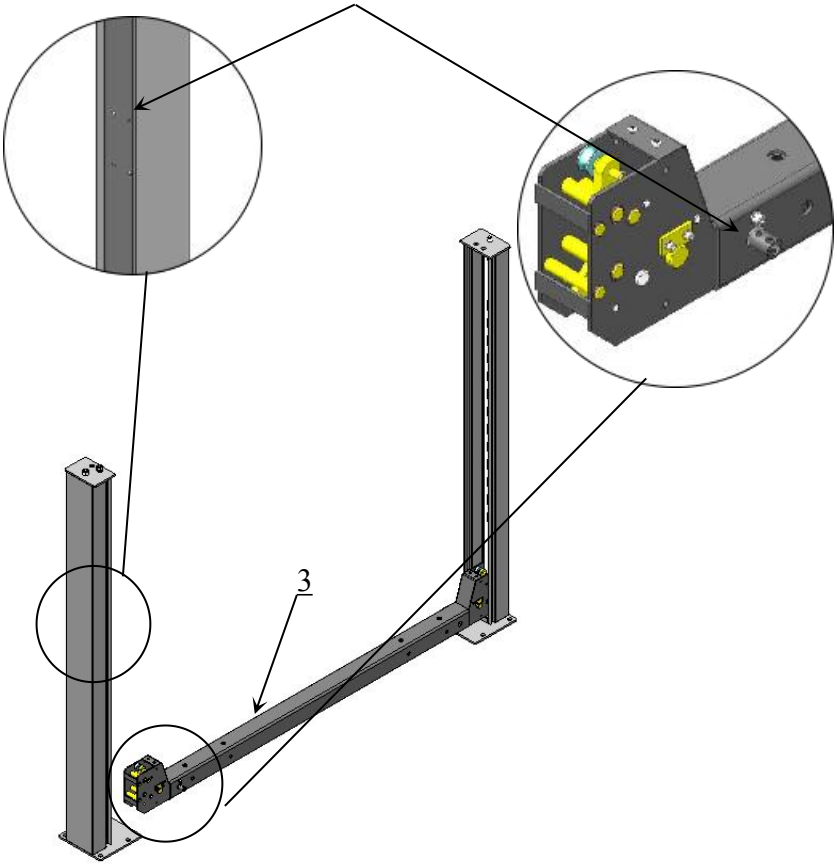


Fig.12

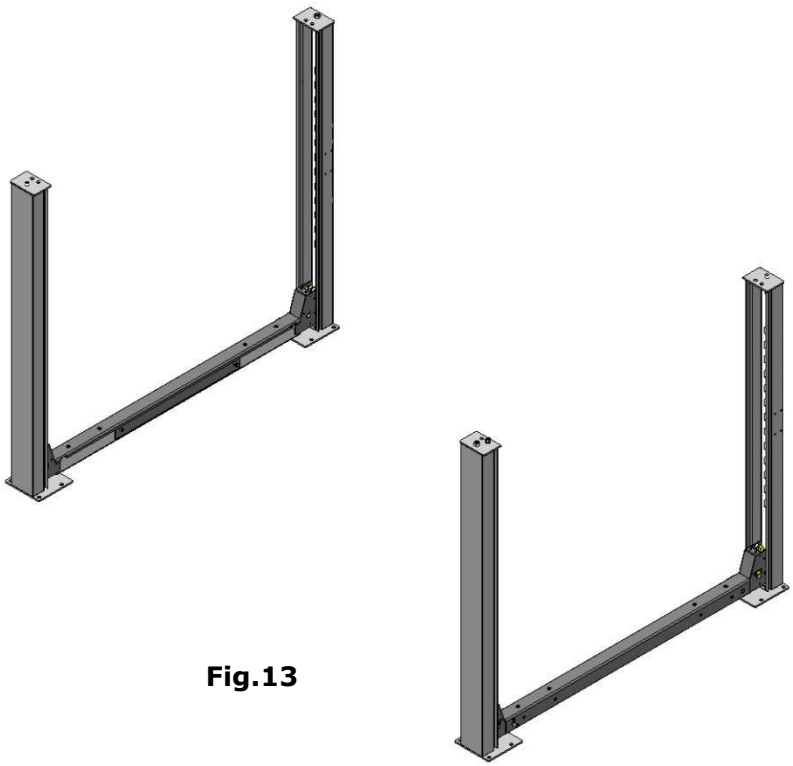


Fig.13

D. Install the Safety Ladders.

1. Take off the pulley safety cover and unscrew the four upper nuts of the safety ladders, and adjust the four lower nuts so they are at the same position. Then insert the safety ladder **(See Fig. 14).**

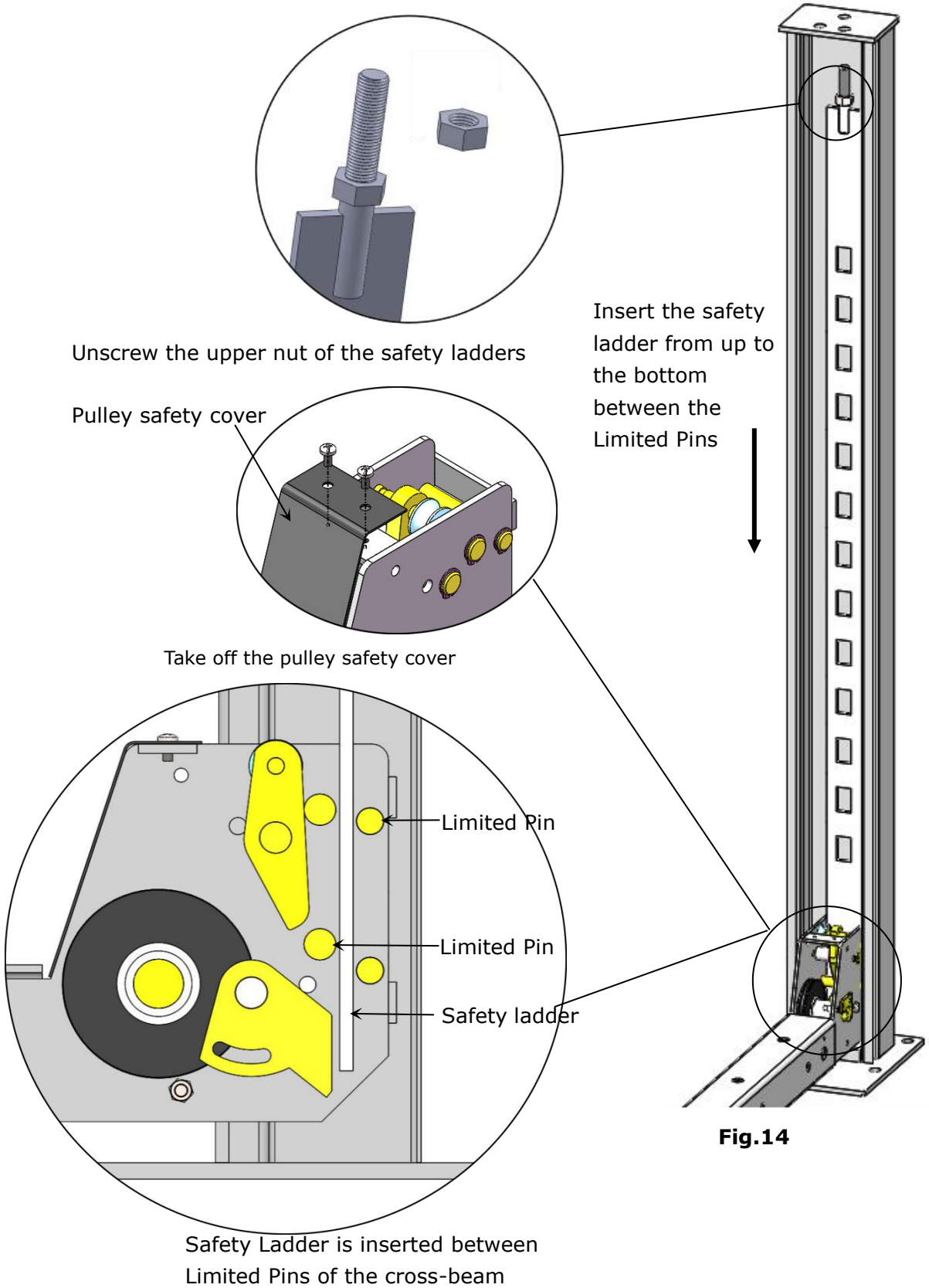
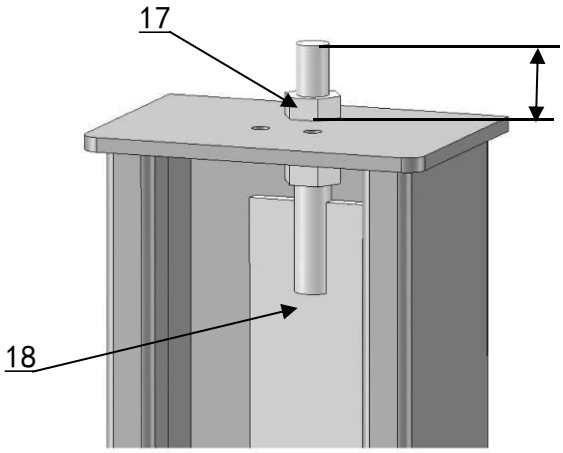


Fig.14

2. Install Safety Ladders **(See Fig. 15)**



Safety ladder pass through the hole of the top plate, then tighten the two nuts

Fig.15

E. Raise the cross beams at the same height and lock them on the safety ladders (See Fig. 16).

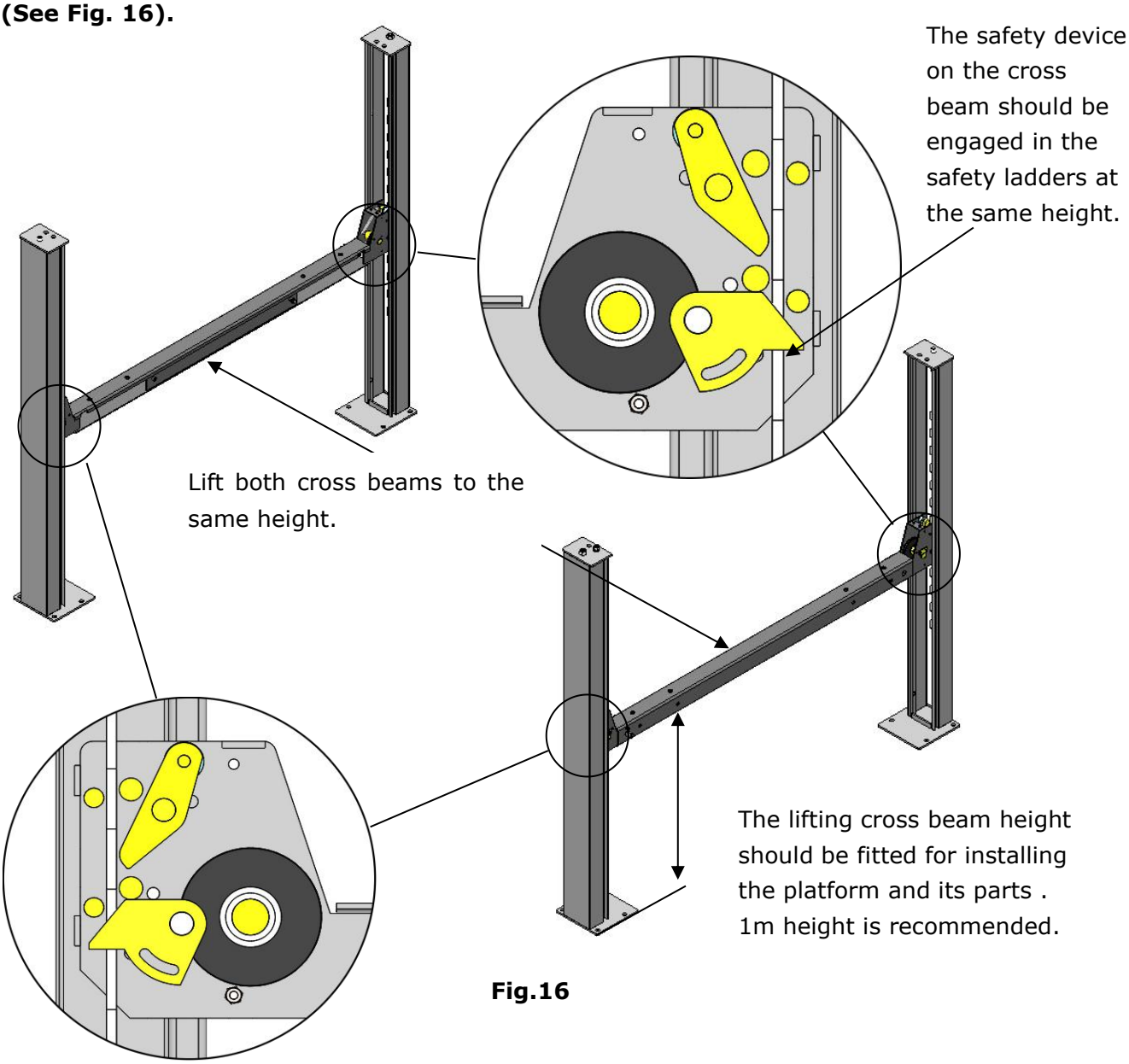


Fig.16

F. Install power-side platform.

1. Raise the power-side platform above the cross beam by a forklift or crane. Then move the cross beam outwards until the pulleys of both platforms can be rested into the cross beams' slots (see **Fig.17**). Tighten the Power-side Platform to the Cross beams by using bolts.

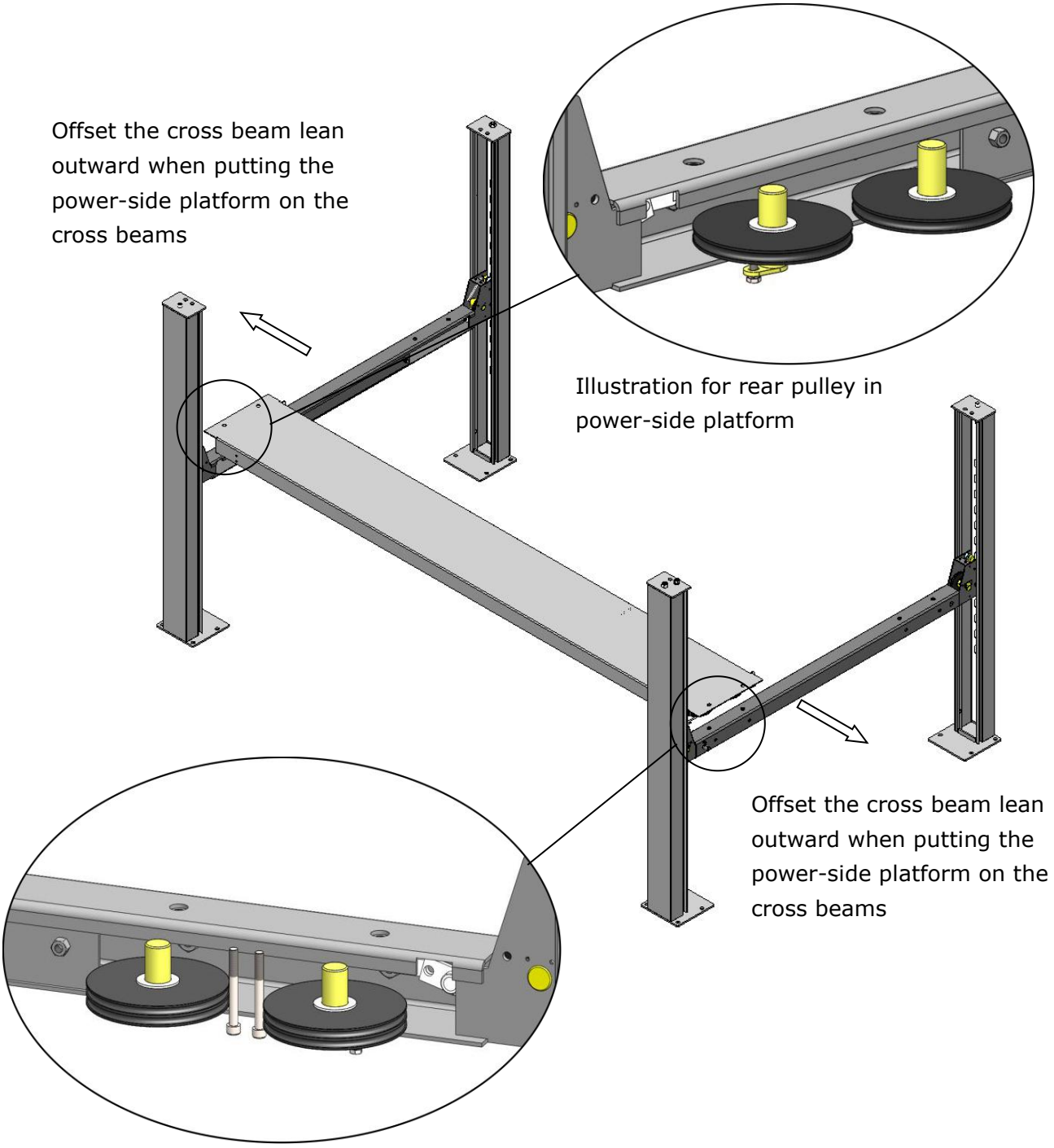


Fig.17

2. Install the tire stop plate and connecting bolts: Tighten the platform and the cross beam **B** with bolts. Tighten the tire stop plate , platform and cross beam **A** with bolt.

Note: Install the tire stop plate on the drive- in position . And the bolts for connecting with tire stop plate is longer, pay attention when choosing the bolts. **(See Fig.18)**

Instruction:

1) This lift is designed to be driven in at any position according to the space. Below is the instruction for the drive -in position on cross beam B. If it is chosen to be driven in from cross beam A, install the tire stop plate to the other side only.
2) Power-side column can be installed at any position accordingly. But the power unit must always be installed adjacent to the safety lock release handle. Pay attention to direction when installed the safety lock release handle, power unit and hydraulic system.

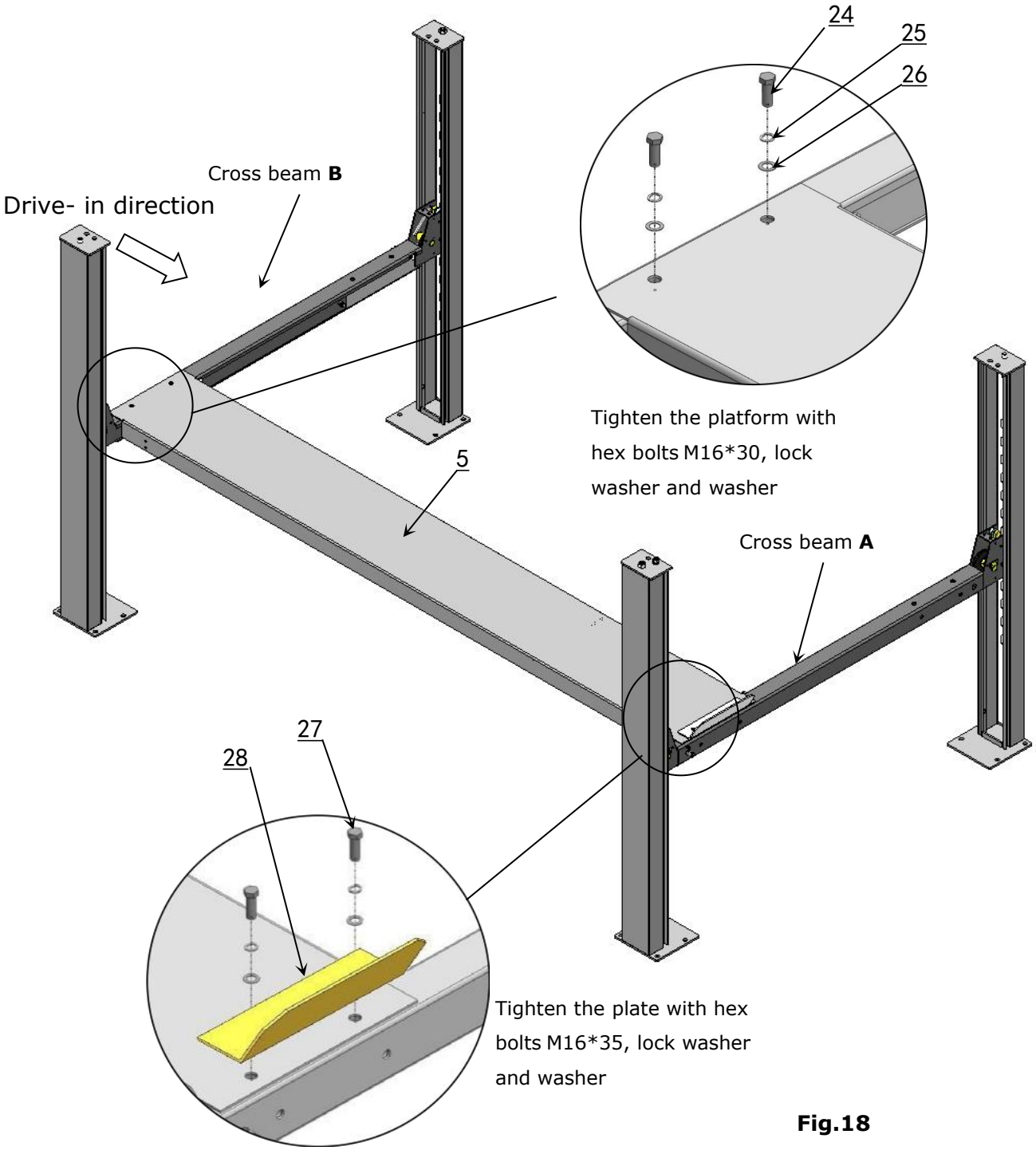
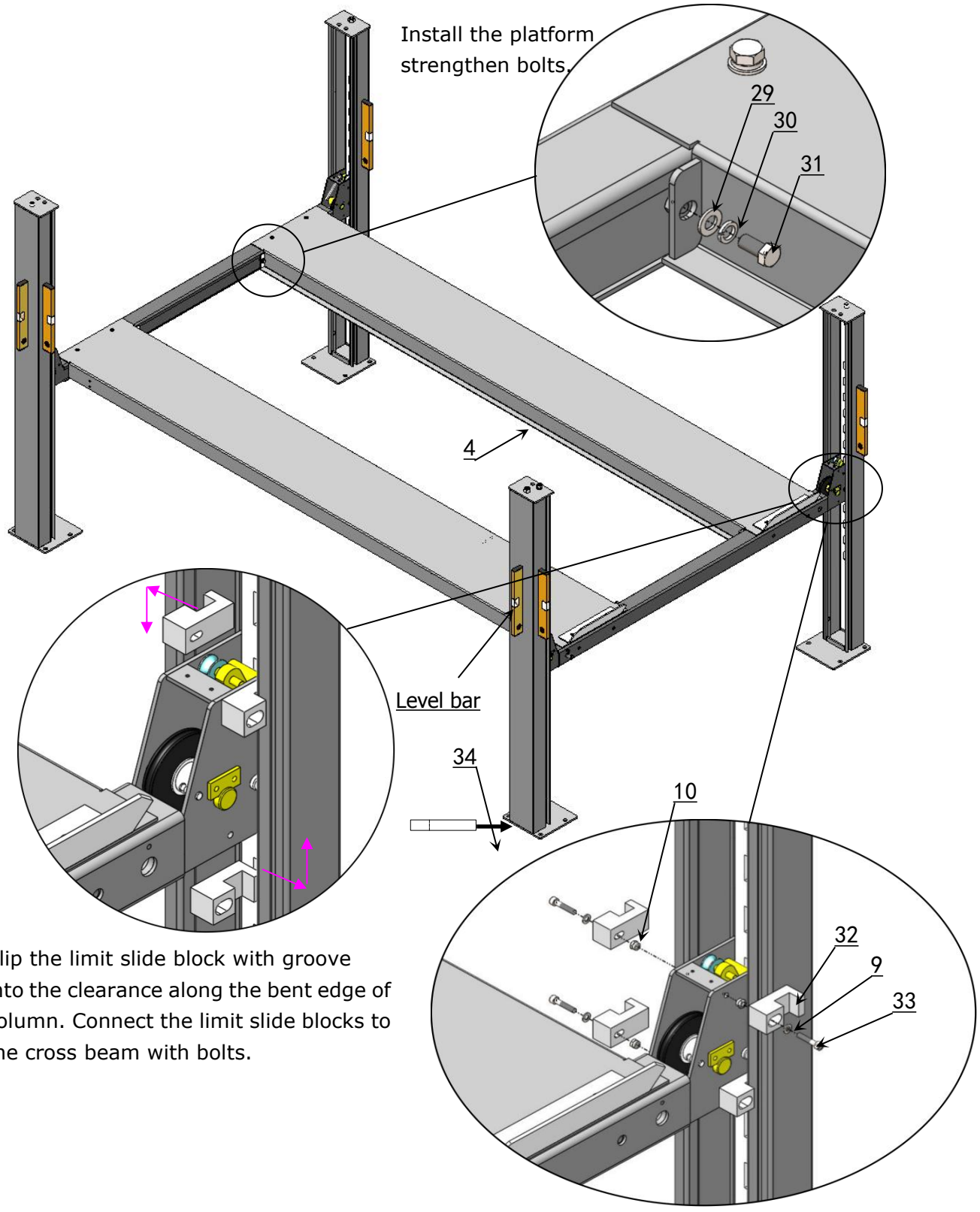


Fig.18

G. Install the offside platform and limit slide block, and platform strengthen bolts. Check the verticality of columns with level bar and adjust with shims. (See Fig. 19)



Slip the limit slide block with groove into the clearance along the bent edge of column. Connect the limit slide blocks to the cross beam with bolts.

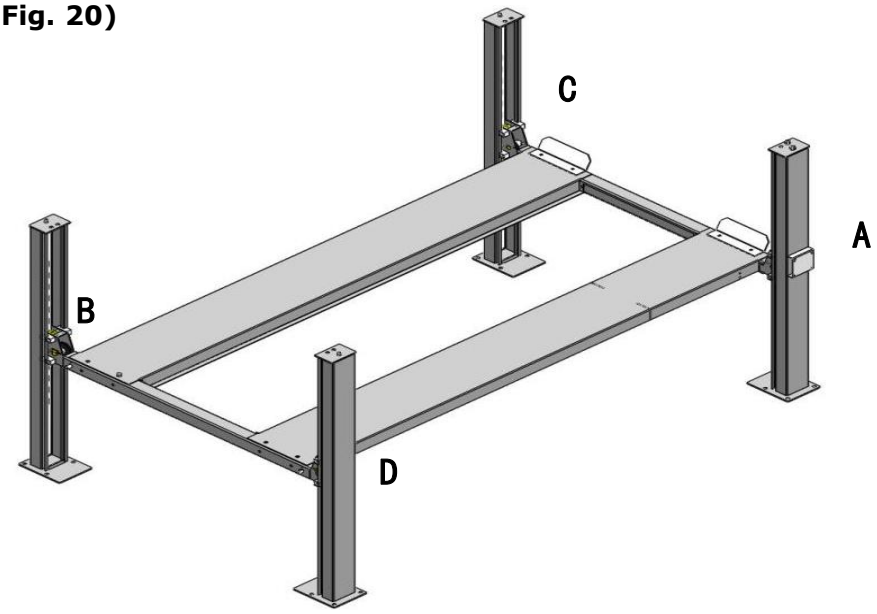
Note: DO NOT completely tighten the limit slide blocks. Loosen 1/4 lap after tightening.

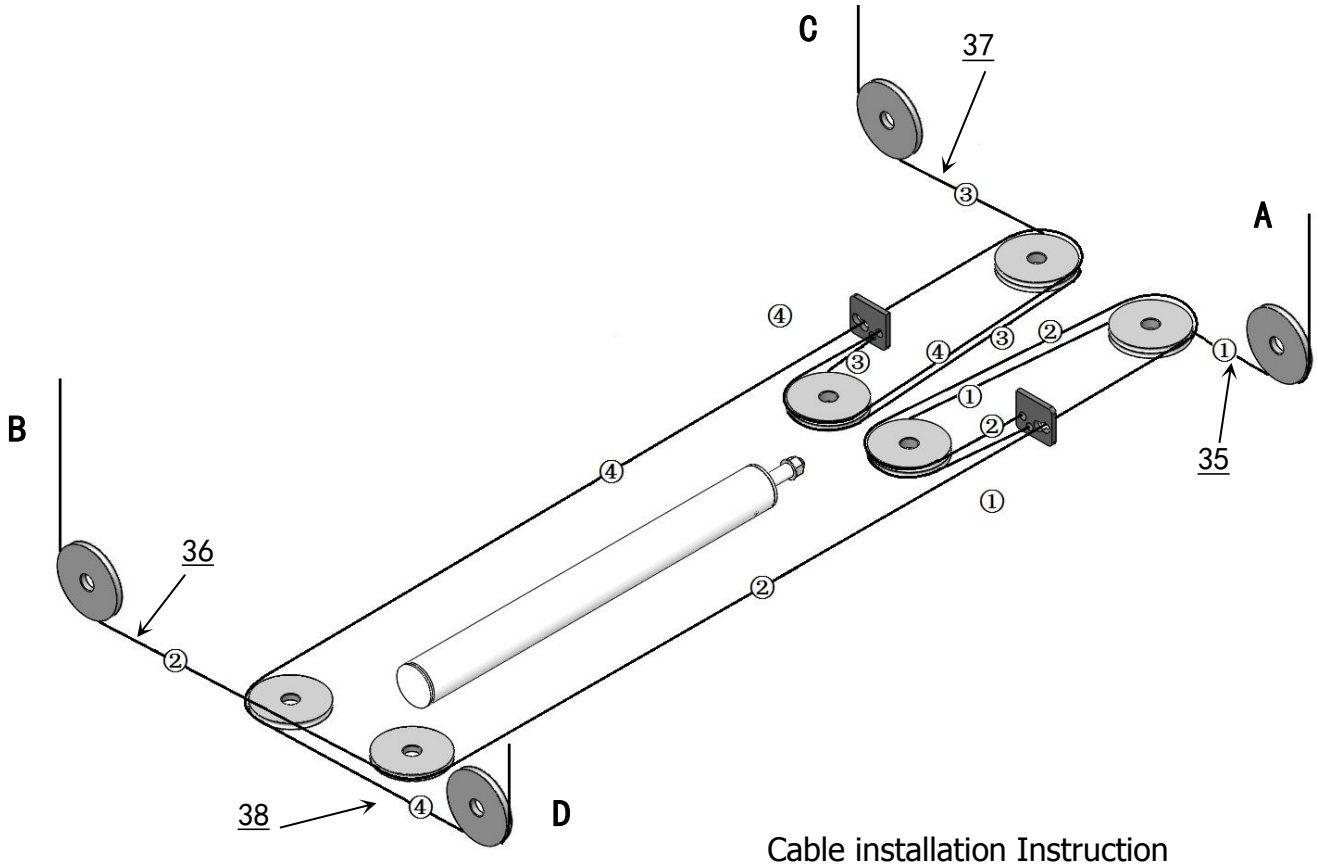
Fig.19

H. Illustration for cable installation

1. Route the cable from the power-side platform via the pulleys according to the number below and then connect them to the columns.

(See Fig. 20)





Cable installation Instruction

Fig.20

Cable \ NO.	①	②	③	④
Length (inc. connecting fitting)	4595mm	10156mm	5997mm	8726mm

2. The cable goes through the cross beam to column top plates and tightened with cable nuts **(See Fig. 21)**

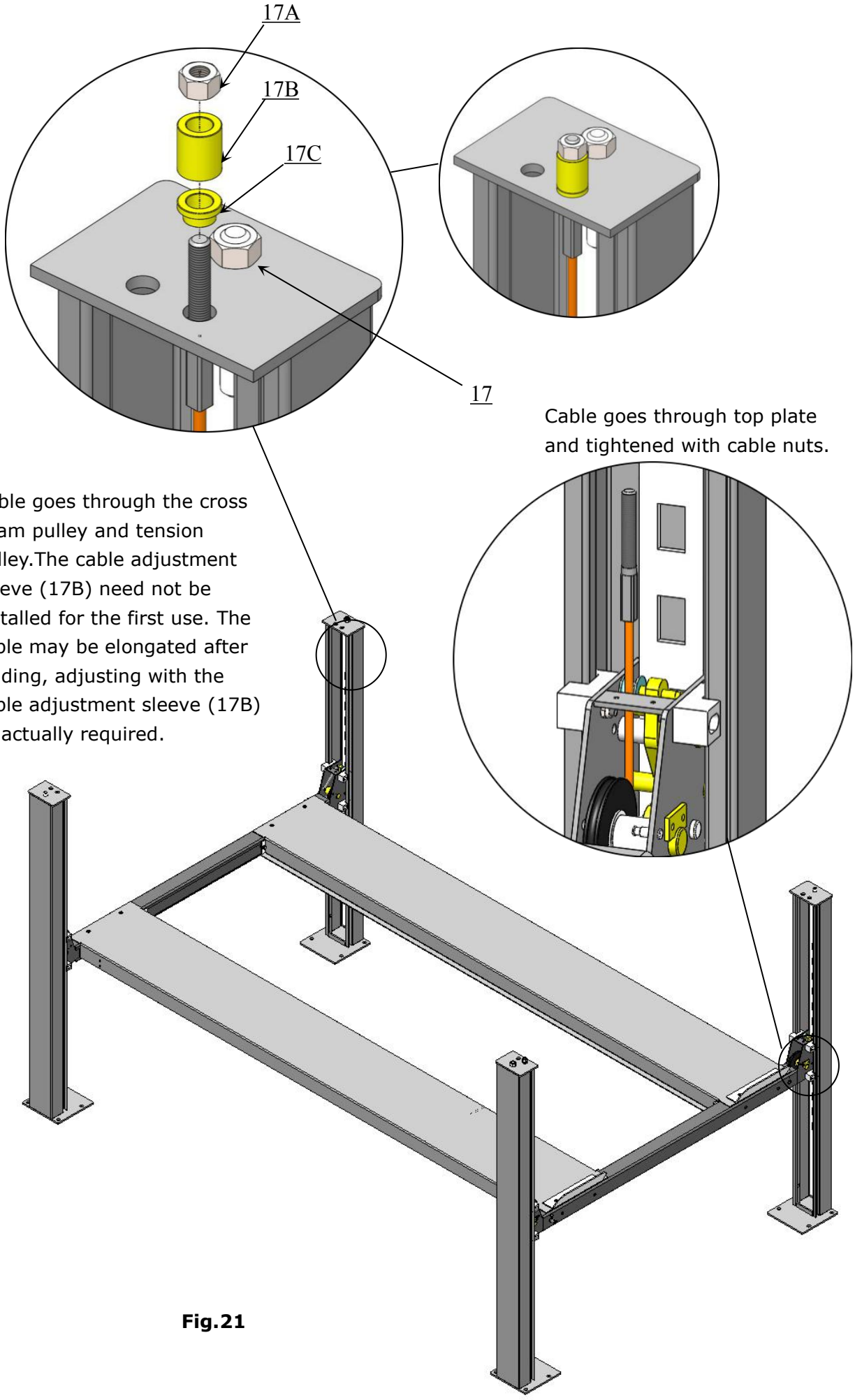
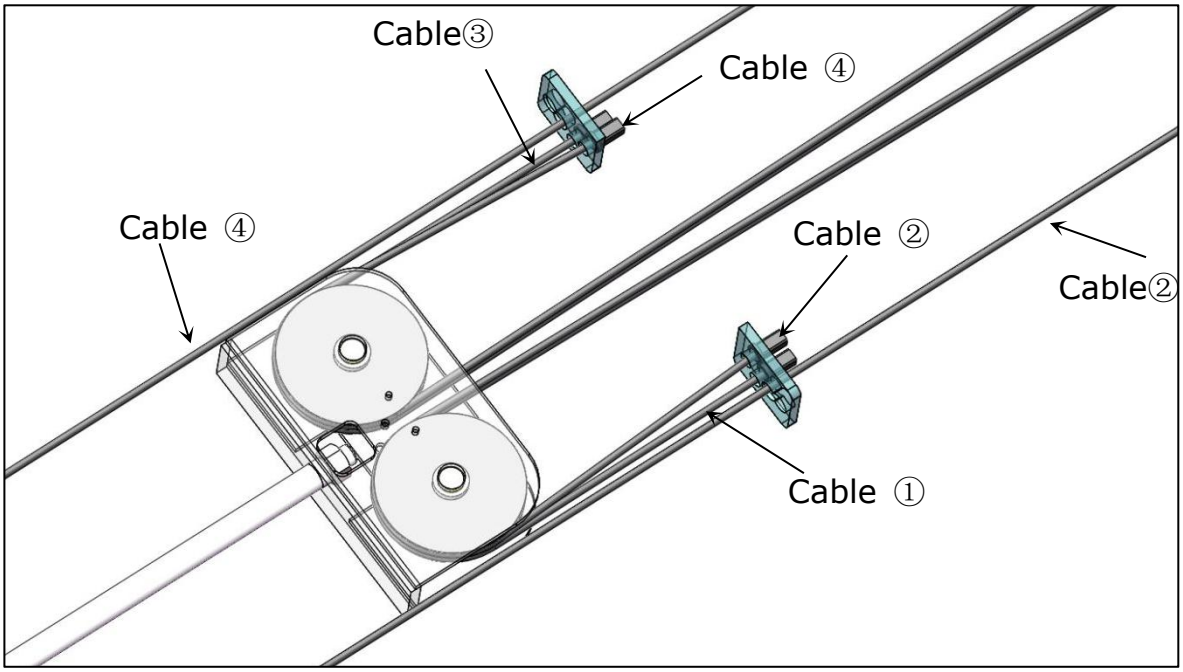
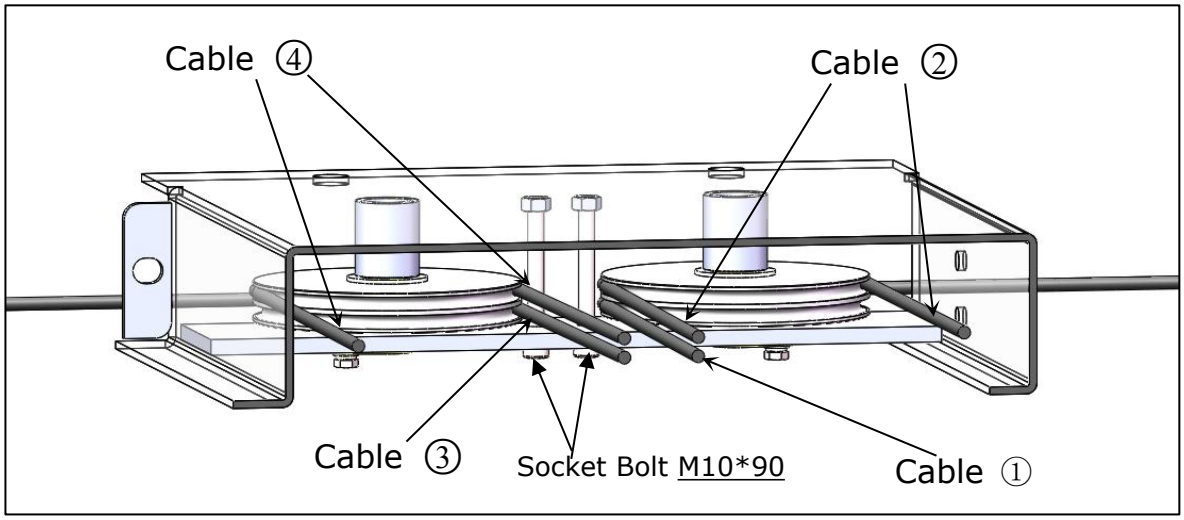


Fig.21

3. Illustration for cables under platform . **(See Fig. 22)**





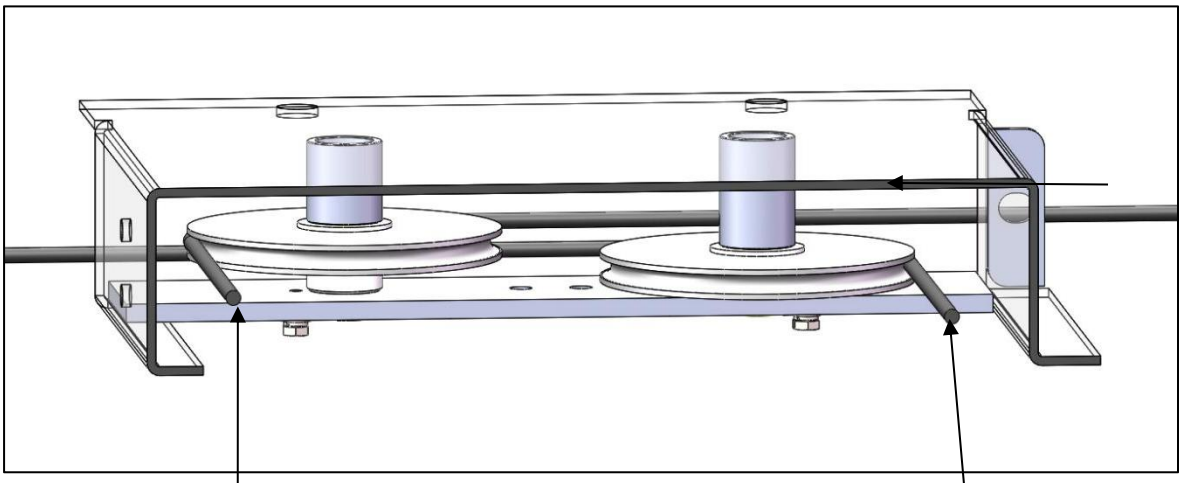


Fig.22

I. Install release handle assy. (See Fig. 23)

Noted: Power unit must be installed near the safety release handle.

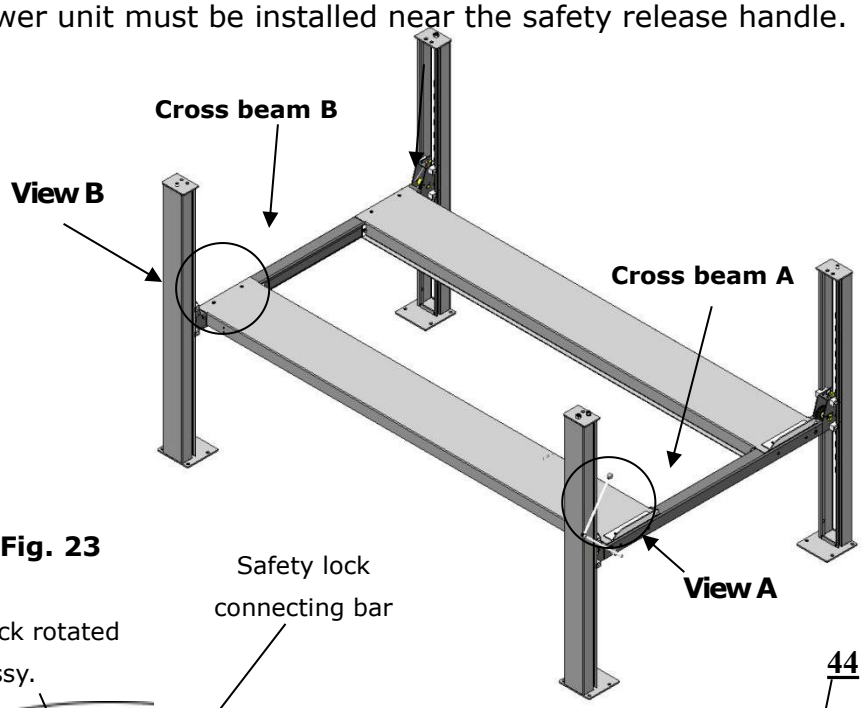
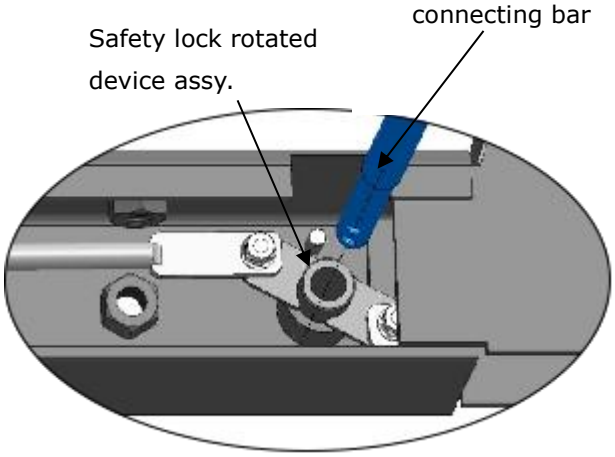
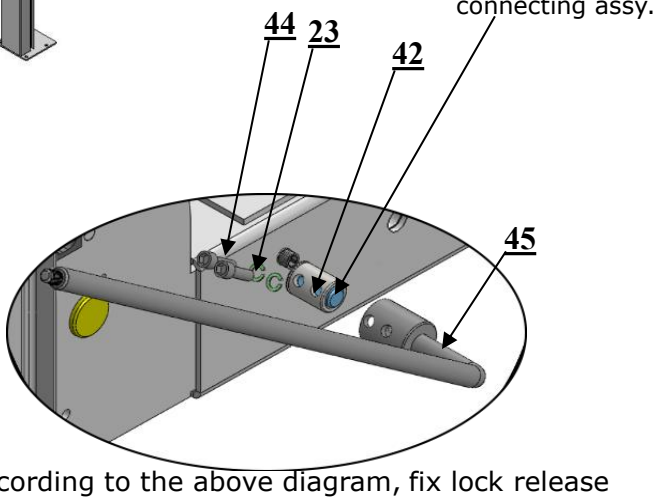


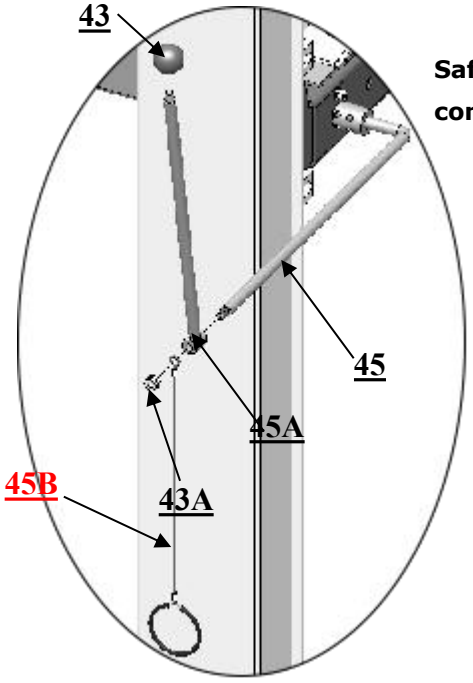
Fig. 23



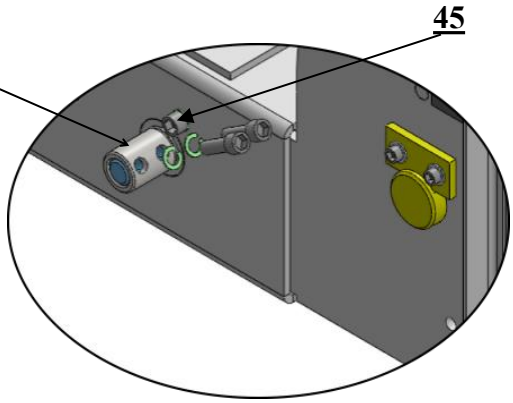
Pass through the connecting bar from the safety lock rotated device of cross beam A/B



According to the above diagram, fix lock release handle and the safety lock connecting assy. with M8*35 bolts and washers on cross beam **A**.



Install extend lock release handle and plastic ball



View B

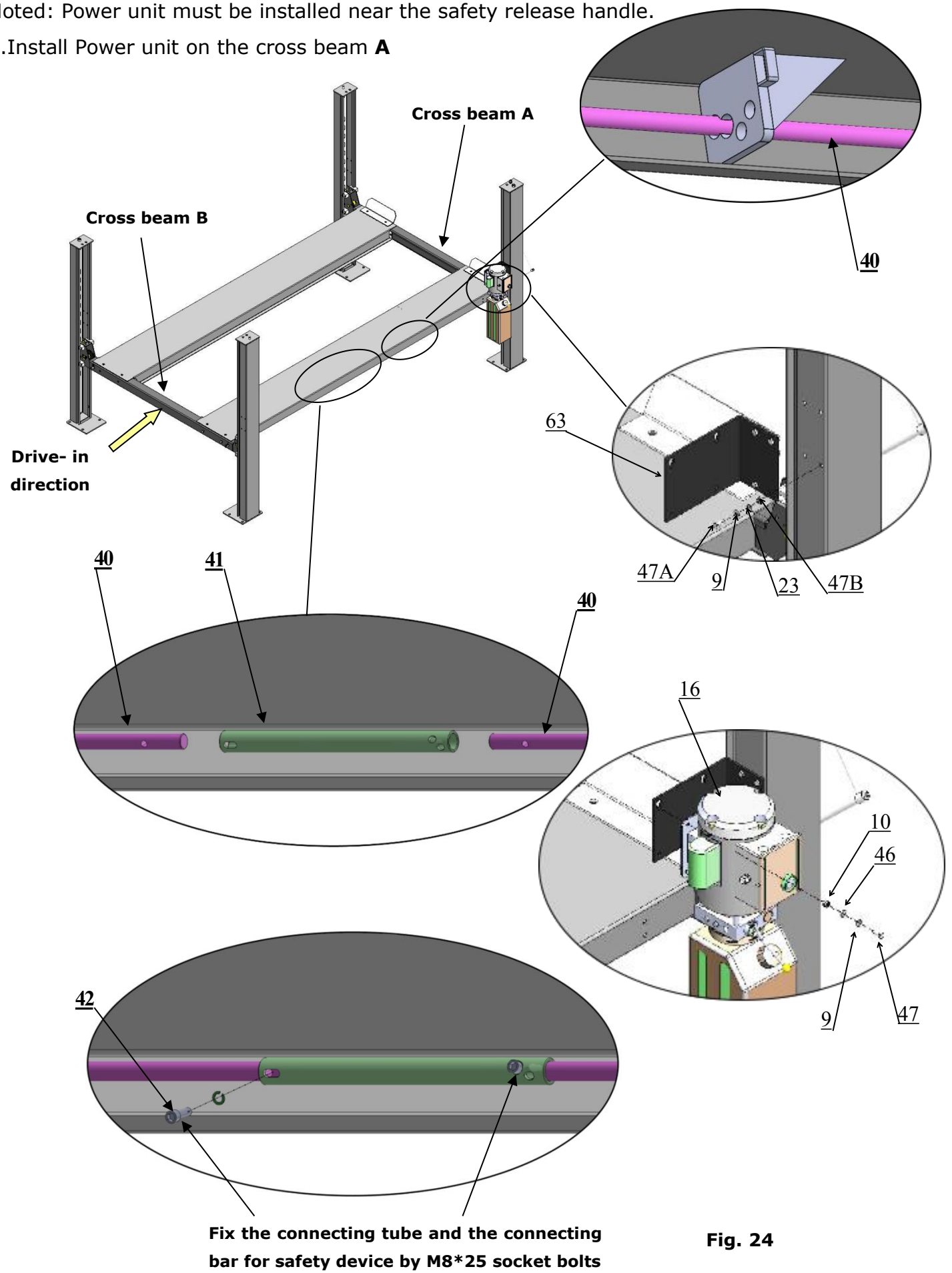
According to the above diagram, fix safety lock connecting bar and safety lock connecting assy. by M8*35 bolts and washers on cross beam B.

Fig.23

J. Install power unit and connecting tube (See Fig. 24).

Noted: Power unit must be installed near the safety release handle.

1.Install Power unit on the cross beam **A**



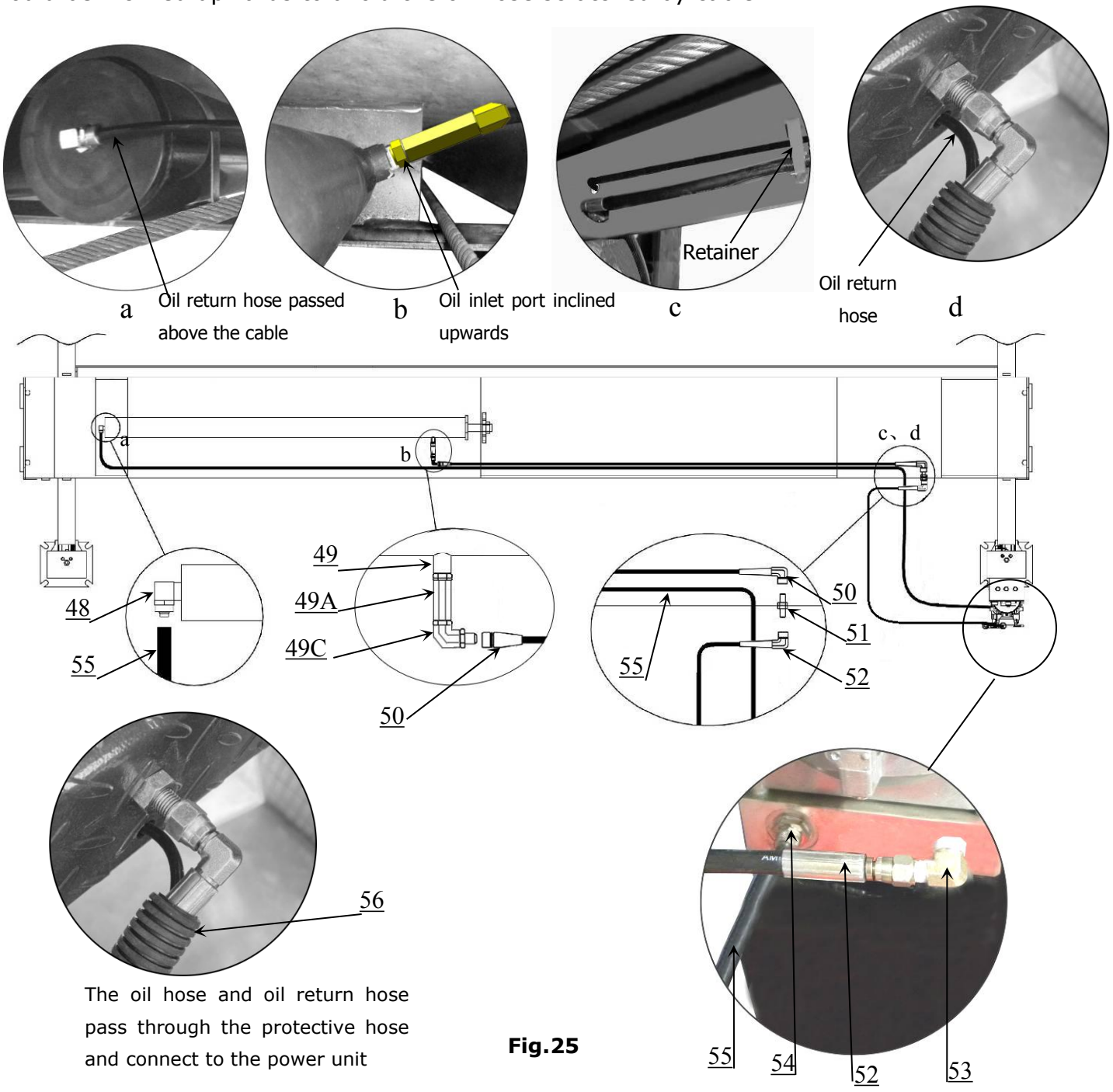
Fix the connecting tube and the connecting bar for safety device by M8*25 socket bolts

Fig. 24

K. Install Hydraulic System

1. For power unit attached to the power-side column for cross beam **A (See Fig. 25)**

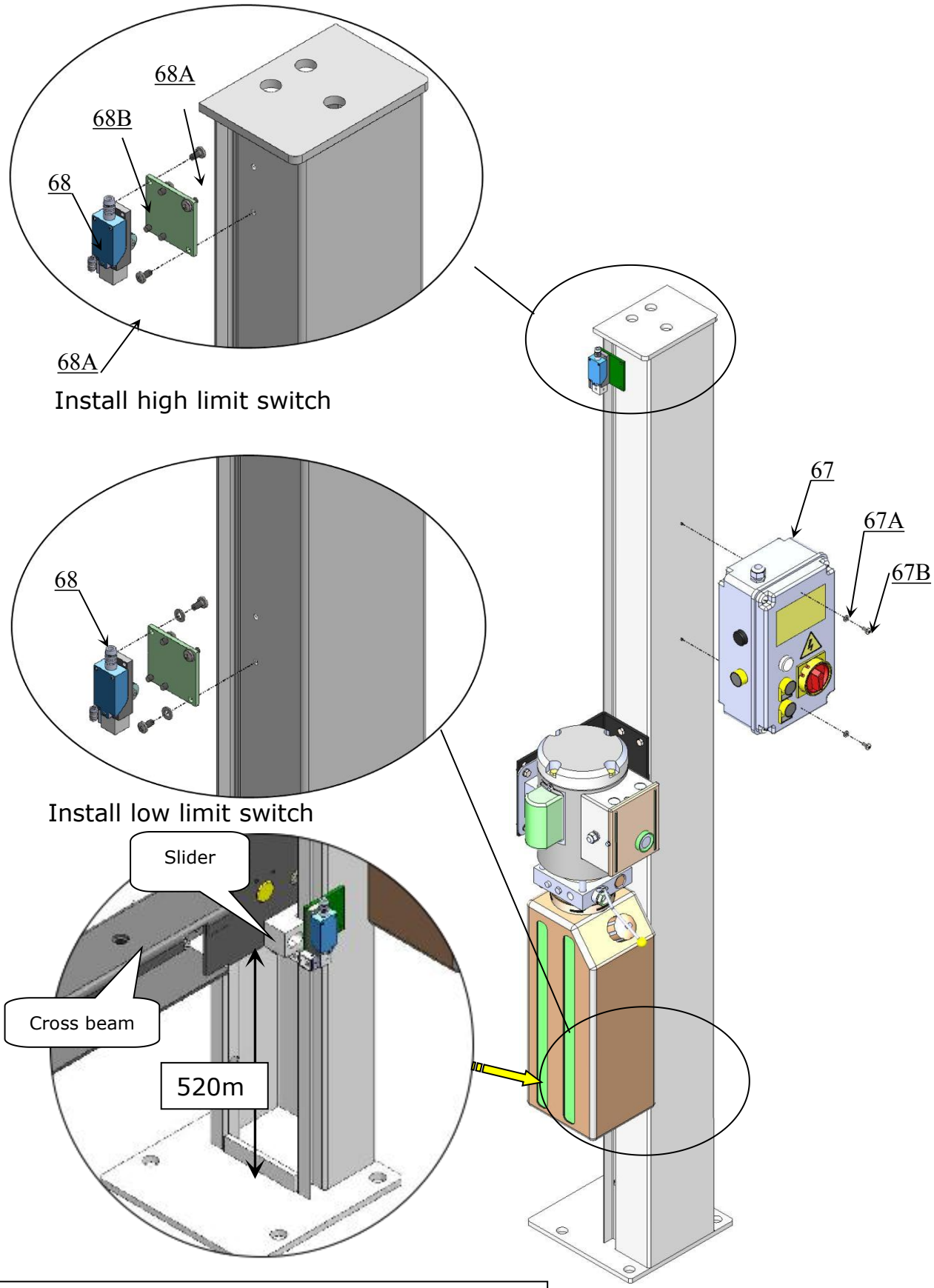
Note: Oil hoses connected to oil cylinder must be passed above the cable and oil inlet port should be inclined upwards to avoid the oil hose scratched by cable.



The oil hose and oil return hose pass through the protective hose and connect to the power unit

Fig.25

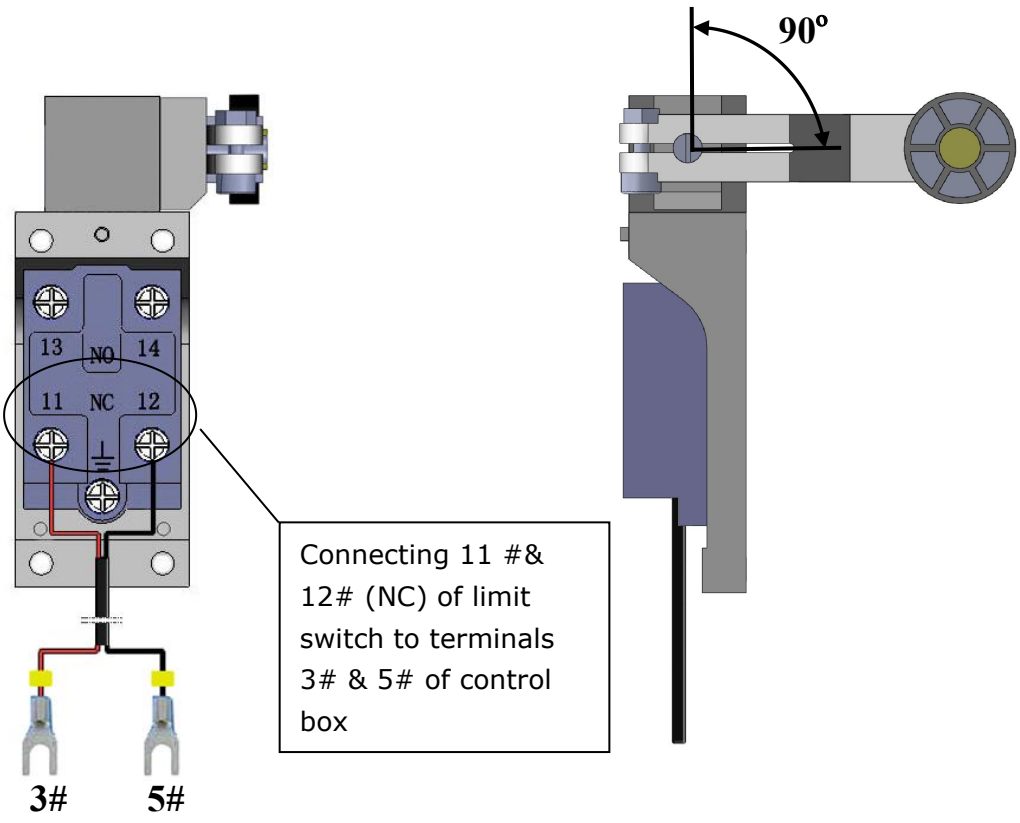
L. Install the control box and limit switch(See. Fig.26)



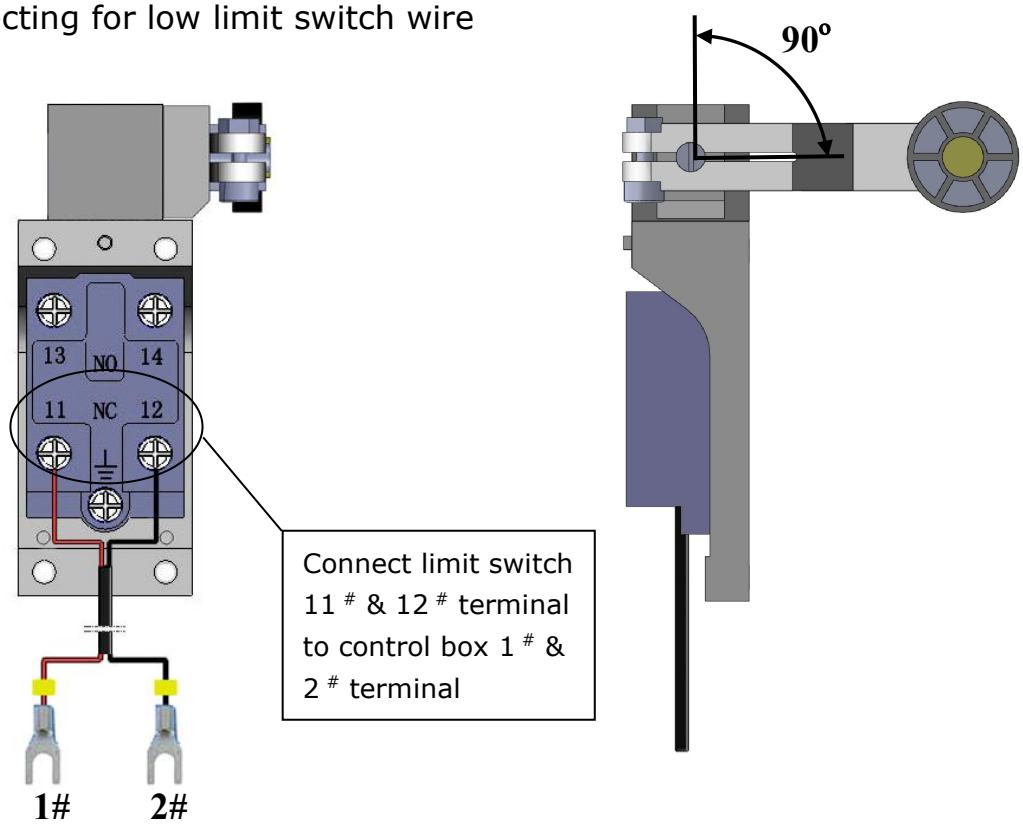
Note: When the cross beam goes to highest place, the cross beam slider touched the high limit switch drive bar and the lift stop rising. When the cross beam lower to 520mm from ground, the cross beam slider touched the low limit switch drive bar and the lift stop lowering.

Fig.26

1. Wire connecting for high limit switch



2. Wire connecting for low limit switch wire



M. Install electrical system

1. Connecting wire with control box. (See. Fig.27)

Note: 1) Specification of wire of limit switch and Air solenoid valve is $2*1^2$.

Specification of power source wire and motor wire : $4*2.5^2$.

2) Using white bobbin to wind around wire.

3) Fix the cable of limit switch on the column with retainer, tie the wire with protective hose by the cable ties.

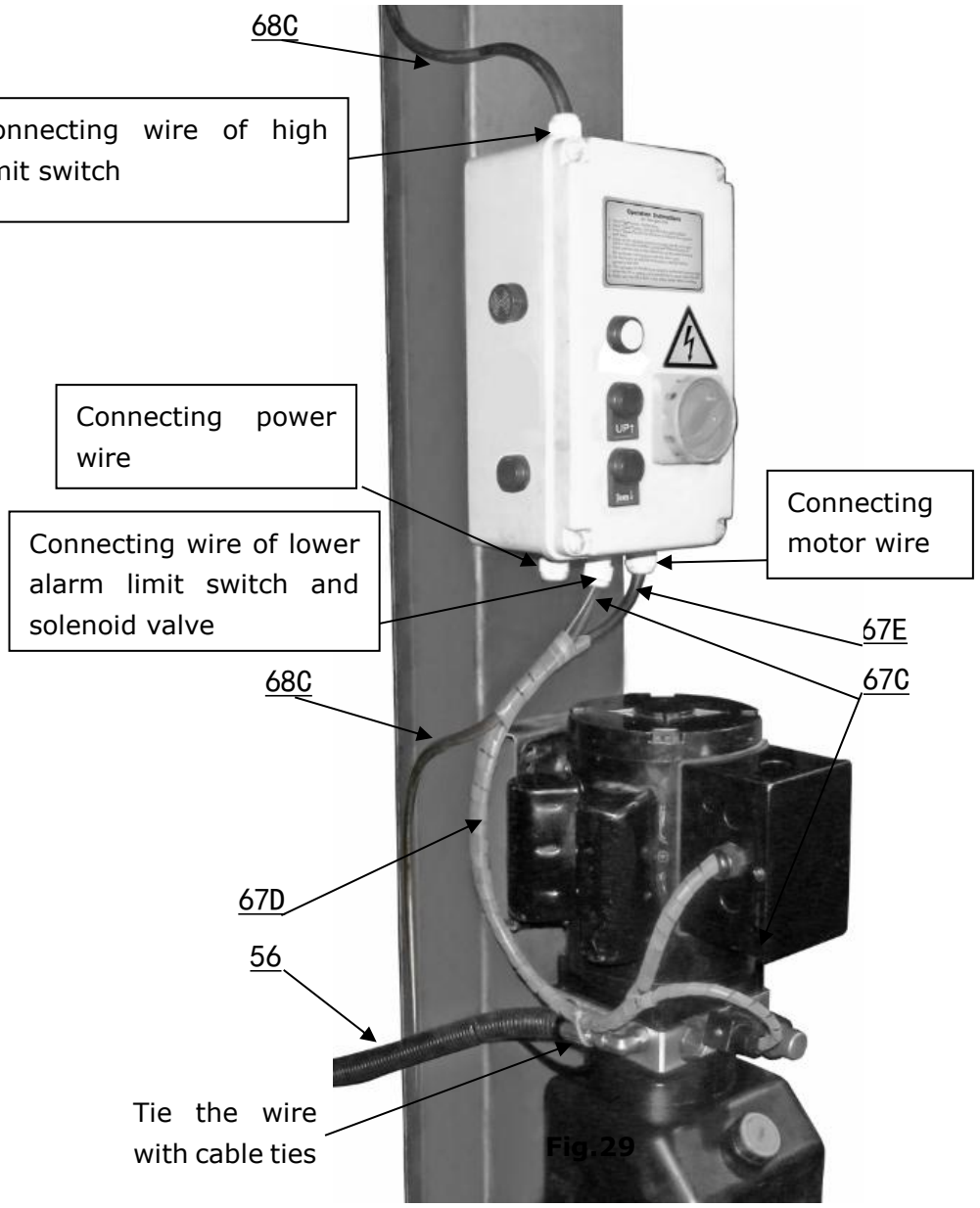


Fig.29

Fig.27

2. 380V Wire connection and circuit diagram

2.1 Wire connection diagram in the control box **(See Fig. 28)**

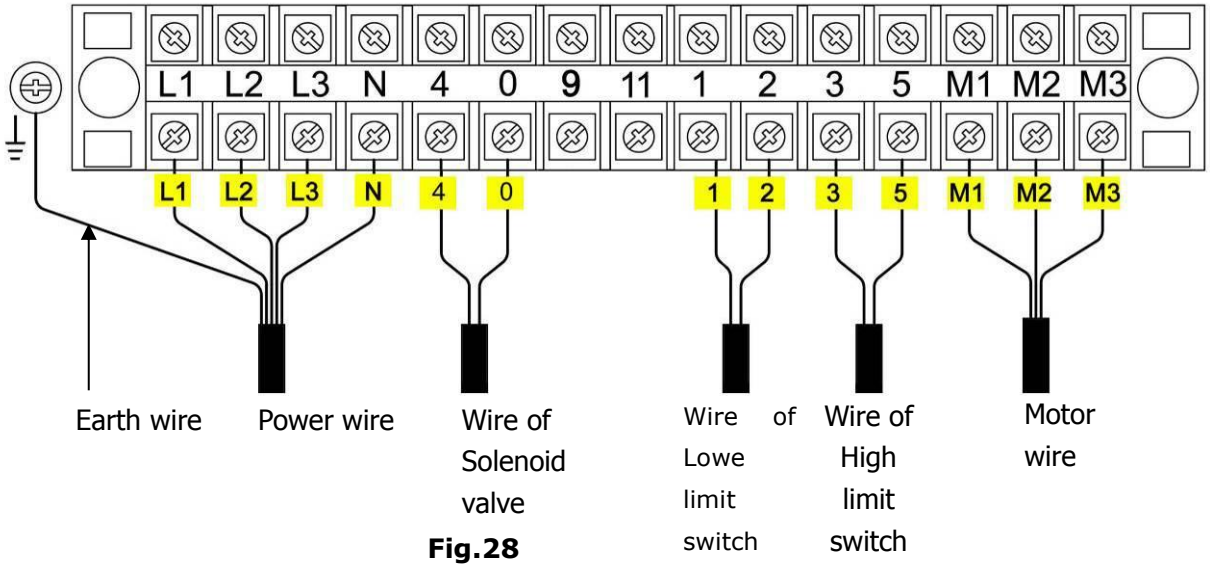


Fig.28

2.2 Wire connection diagram of Three phase hydraulic motor **(See Fig. 29)**.

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

Turn on the power, push button **"UP"**, if motor run but lift do not work, exchange the wire M1 and M2 connection.

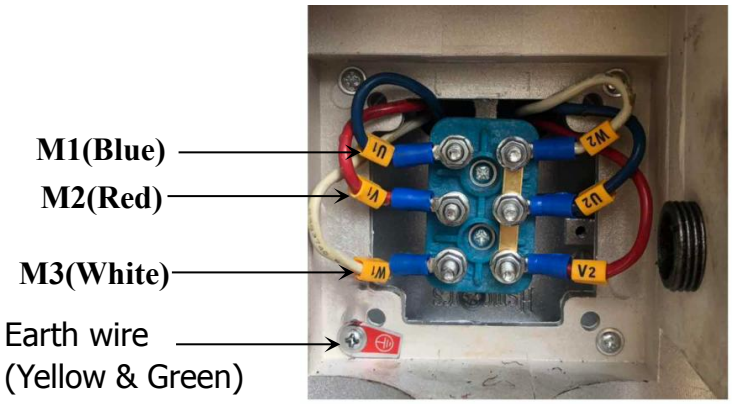


Fig.29

2.3 380V Circuit diagram (See Fig. 30)

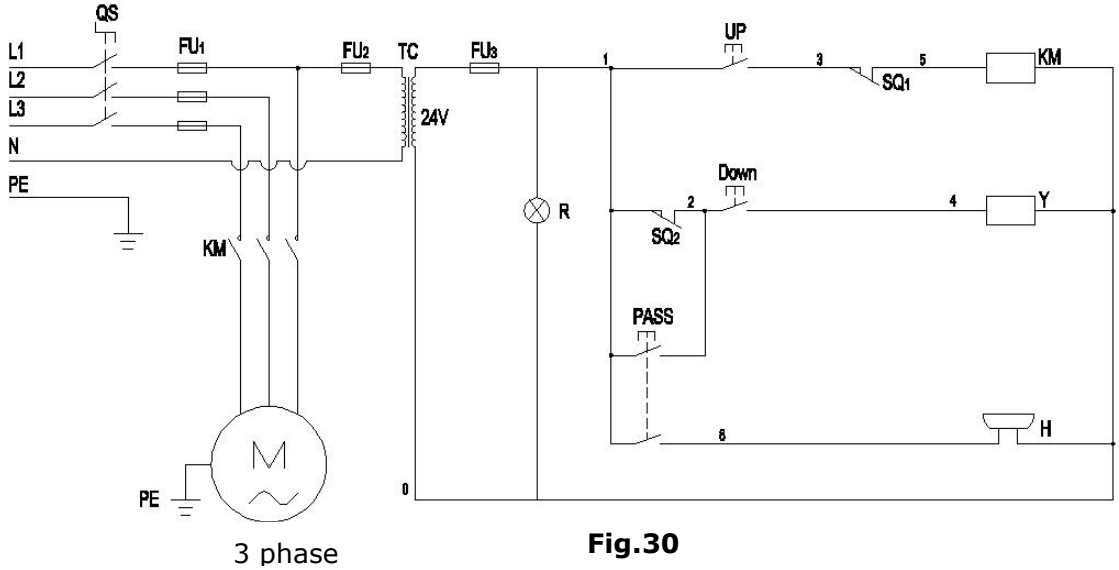


Fig.30

380V Circuit component

Item	Name	Code	Specification		Item	Name	Code	Specification
1	Power switch	QS	380V AC		9	Lowering alarm button	Pass	Duplex
2	Breaker	FU_1	16A		10	Motor	M	3 phase
3	Breaker	FU_2	6A		11	Transformer	TC	24V AC
4	Breaker	FU_3	2A		12	High limit switch	SQ_1	10A
5	AC contactor	KM	24V AC		13	Low limit switch	SQ_2	10A
6	Hydraulic solenoid valve	Y	24V AC		14	Buzzer	H	24V AC
7	Push button	UP	Single		15	Indicator light	R	24V
8	Push button	Down	Single					

3. 220V Wire connection and circuit diagram

3.1 Wire connection diagram in the control box (See **Fig. 31)**

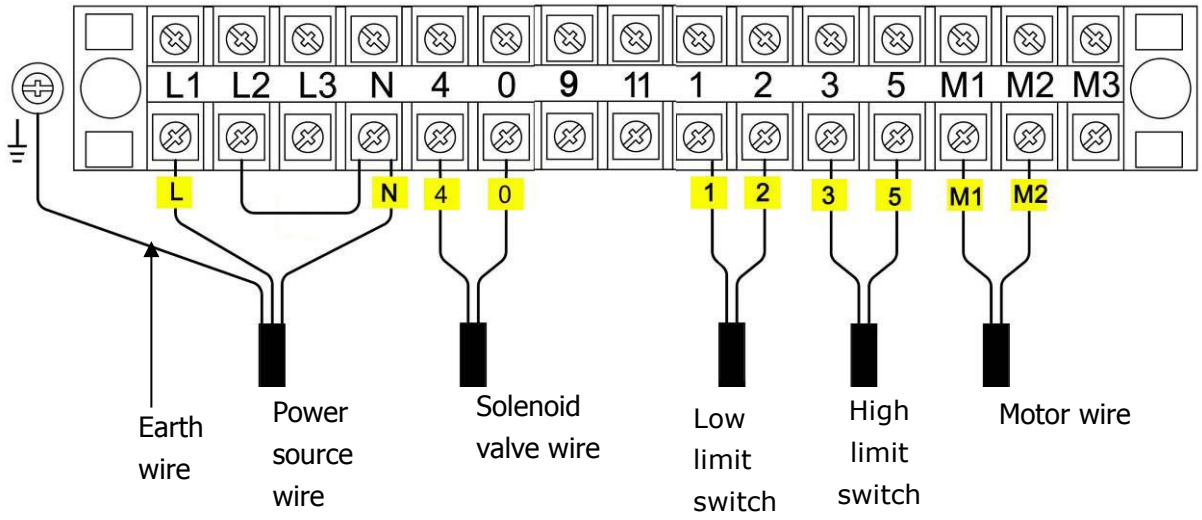


Fig.31

3.2 Wire connection of single phase hydraulic power unit(See **fig.32**)

Motor wire (M1,M2) separately connected to two terminals in the control box.

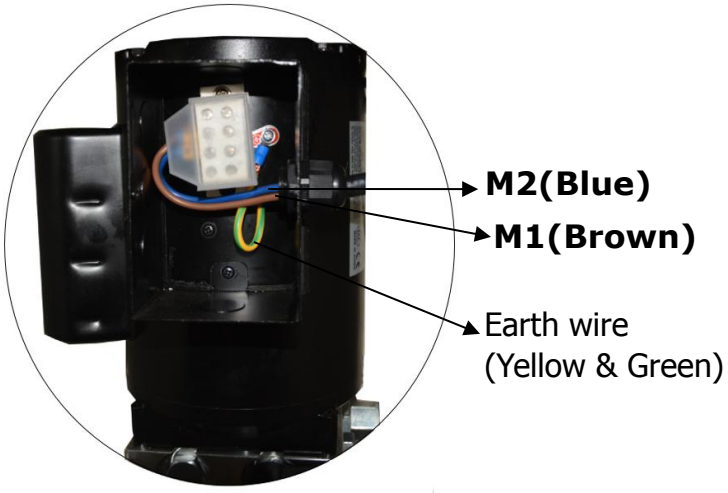
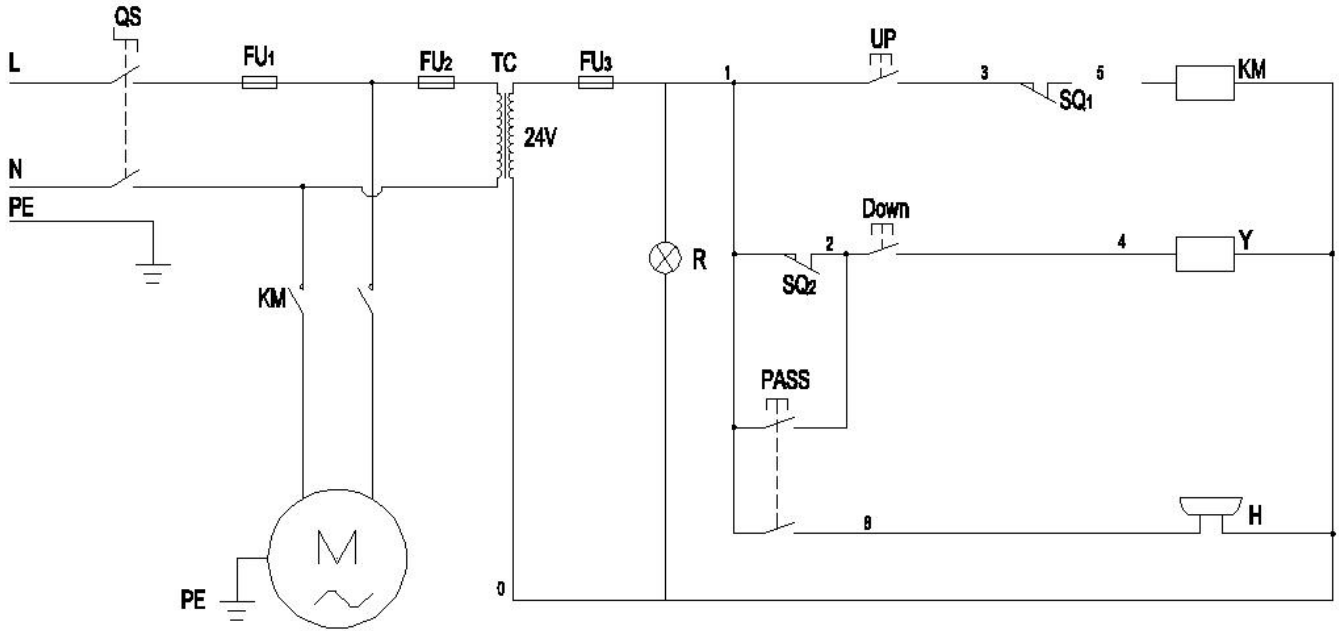


Fig.32

3.3 220V Circuit diagram **(See Fig. 33)**



Single phase

Fig.33

220V Circuit component

Item	Name	Code	Specification		Item	Name	Code	Specification
1	Power switch	QS	380V AC		9	Lowering alarm button	Pass	Duplex
2	Breaker	FU_1	25A		10	Motor	M	3 phase
3	Breaker	FU_2	6A		11	Transformer	TC	24V AC
4	Breaker	FU_3	6A		12	High limit switch	SQ_1	10A
5	AC contactor	KM	24V AC		13	Low limit switch	SQ_2	10A
6	Solenoid valve	Y	24V AC		14	Buzzer	H	24V AC
7	Push button	UP	Single		15	Indicator light	R	24V
8	Push button	Down	Single					

N. Install spring and safety cover of cross beam (See Fig. 34).

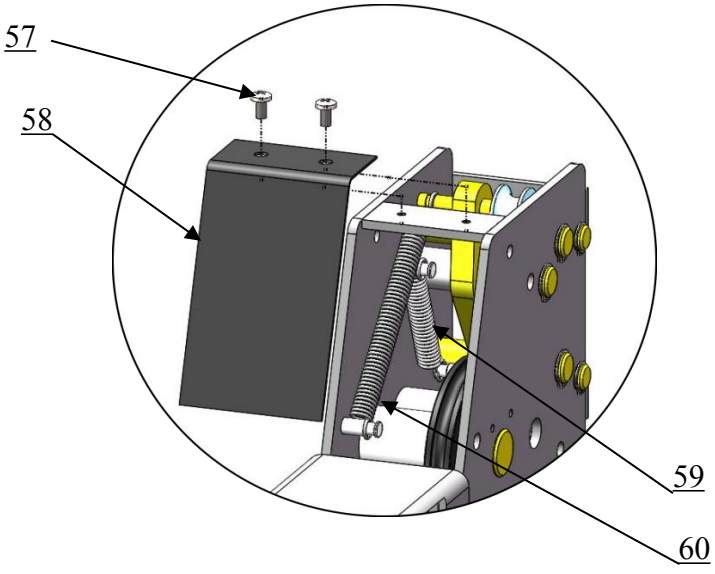


Fig.34

O. Install folding ramp assy. , optional jack tray and optional plastic oil tray (See Fig. 35).

According to the below diagram screw the M16*30 bolts, then attach the folding ramp.

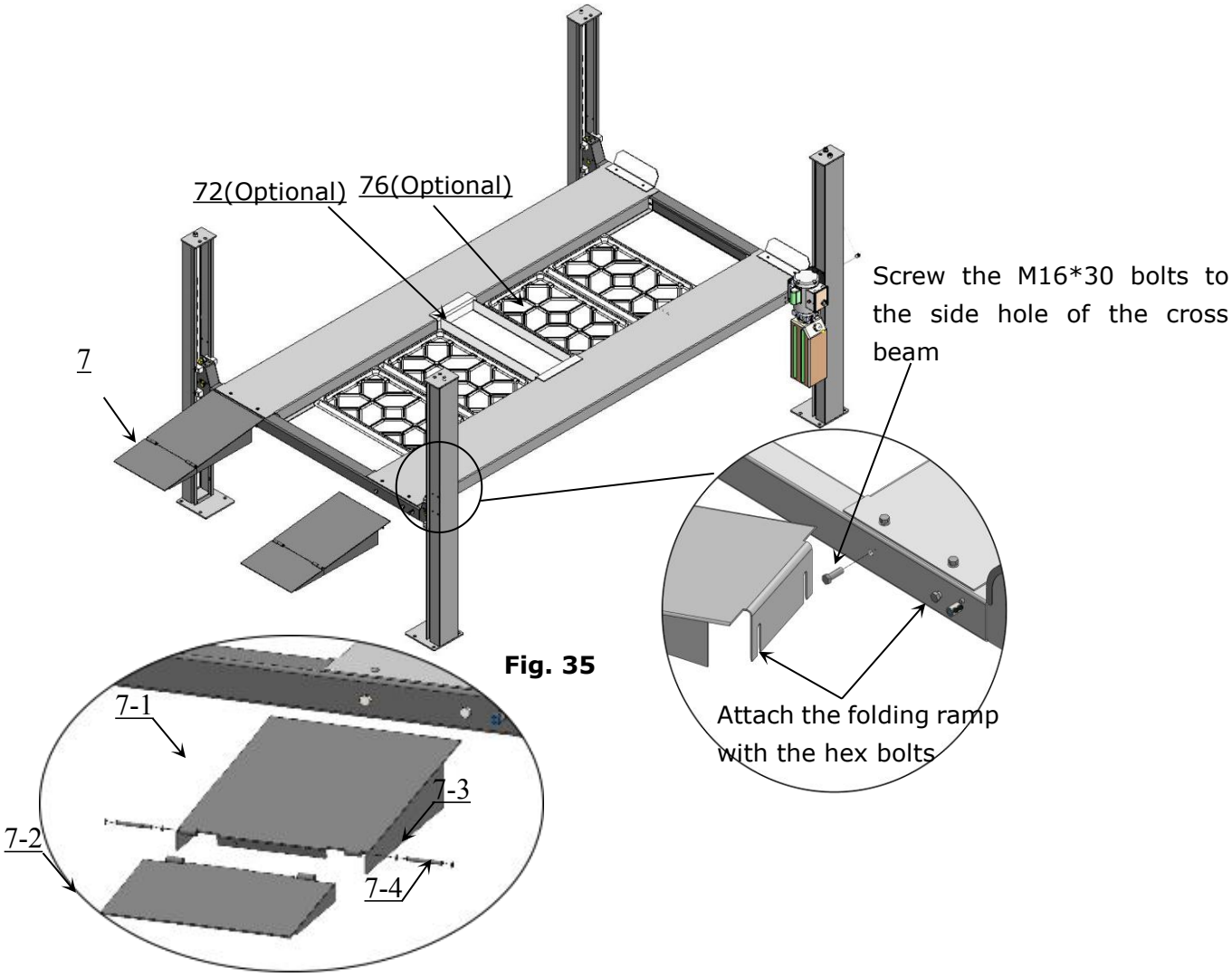


Fig. 35

Item	Part#	Description	QTY.
7-1	1104543020A	Foldable drive-in Ramp assembly ①	2
7-2	1104543021A	Foldable drive-in Ramp assembly ②	2
7-3	1104543021	Connecting pin	4
7-4	10209010	φ10 snap pin	8

P. Install Rear wheel stop plates (See Fig. 36)

After driving the vehicle on the lift, flip up the front part of the drive-in ramps.

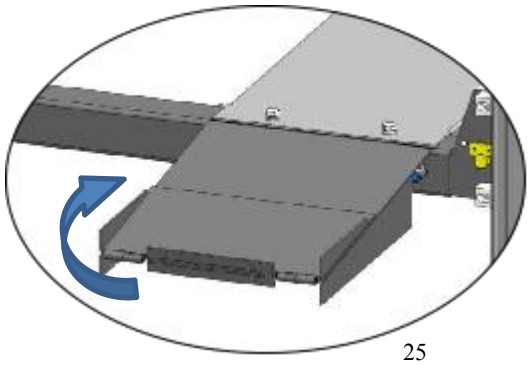


Fig. 36

Q. For optional kits installation.

1. Install optional caster kits or jack **(See Fig. 37)**

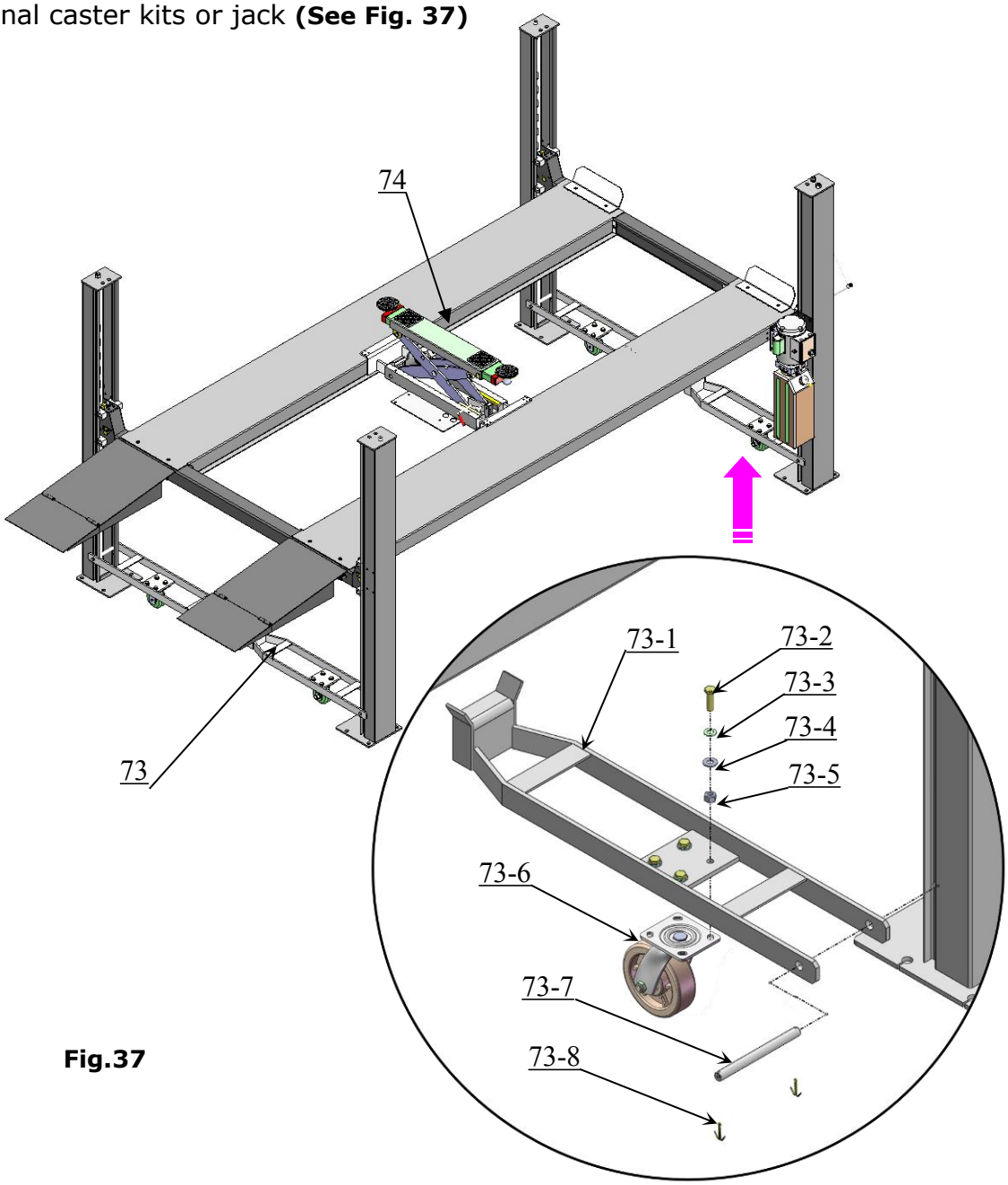


Fig.37

Past list

Item	Part#	Description	QTY.	Note
73-1	11410042A	Caster kits	4	
73-2	10209125	Hex bolt M10*30	16	
73-3	10209039	Lock washerφ10	16	
73-4	10209022	Washerφ10	16	
73-5	10209021	Lock washer M10	16	
73-6	10410035	Universal wheel	4	
73-7	10410034	Connecting pinφ19*216	4	
73-8	10209012	Spring pinφ3.2	8	

R. Fix the anchor bolts

1. Prepare the anchor bolts **(See Fig. 38)**

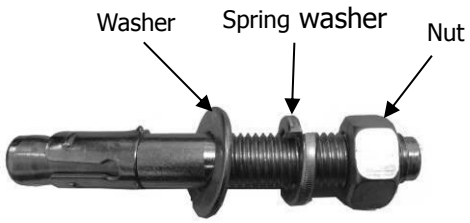


Fig.38

2. Adjust the column with the leveling bar and leveling pad , drill the anchor hole and install the anchor bolts. Tap the anchor bolts into the anchor hole with a hammer and tighten the bolts.(See **Fig.39**)

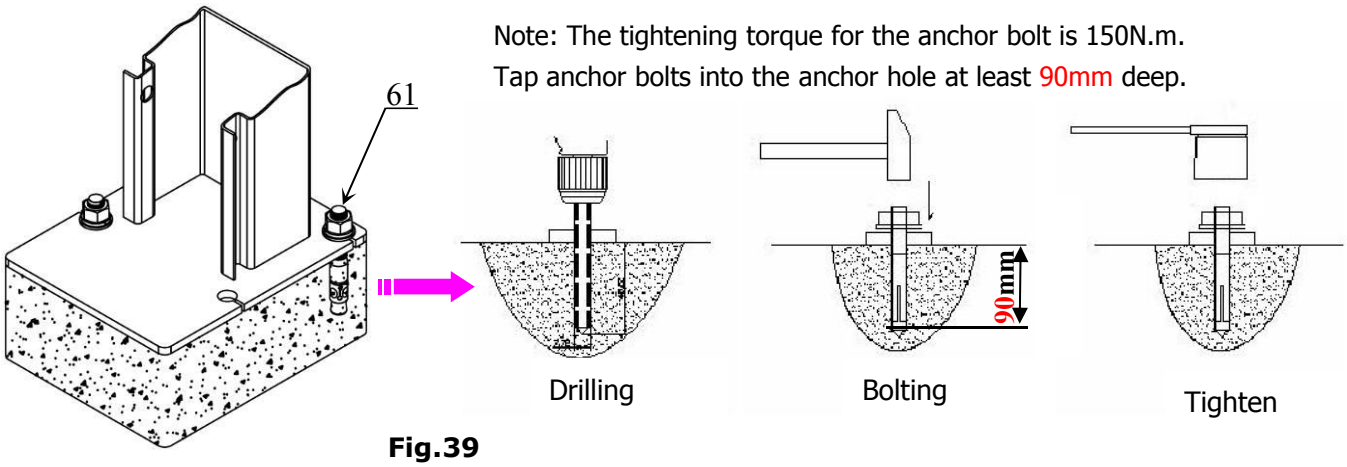


Fig.39

IV. EXPLODED VIEW

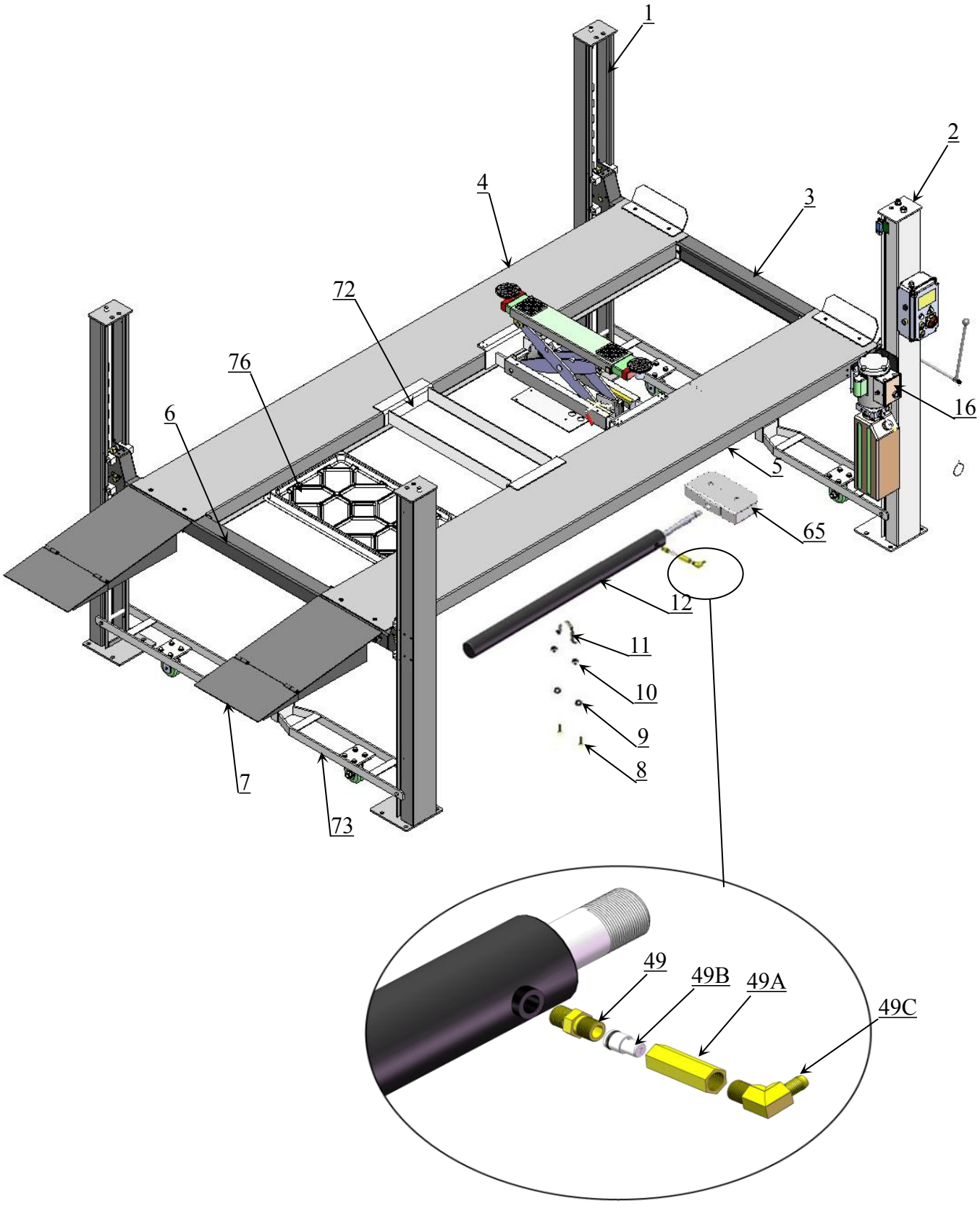
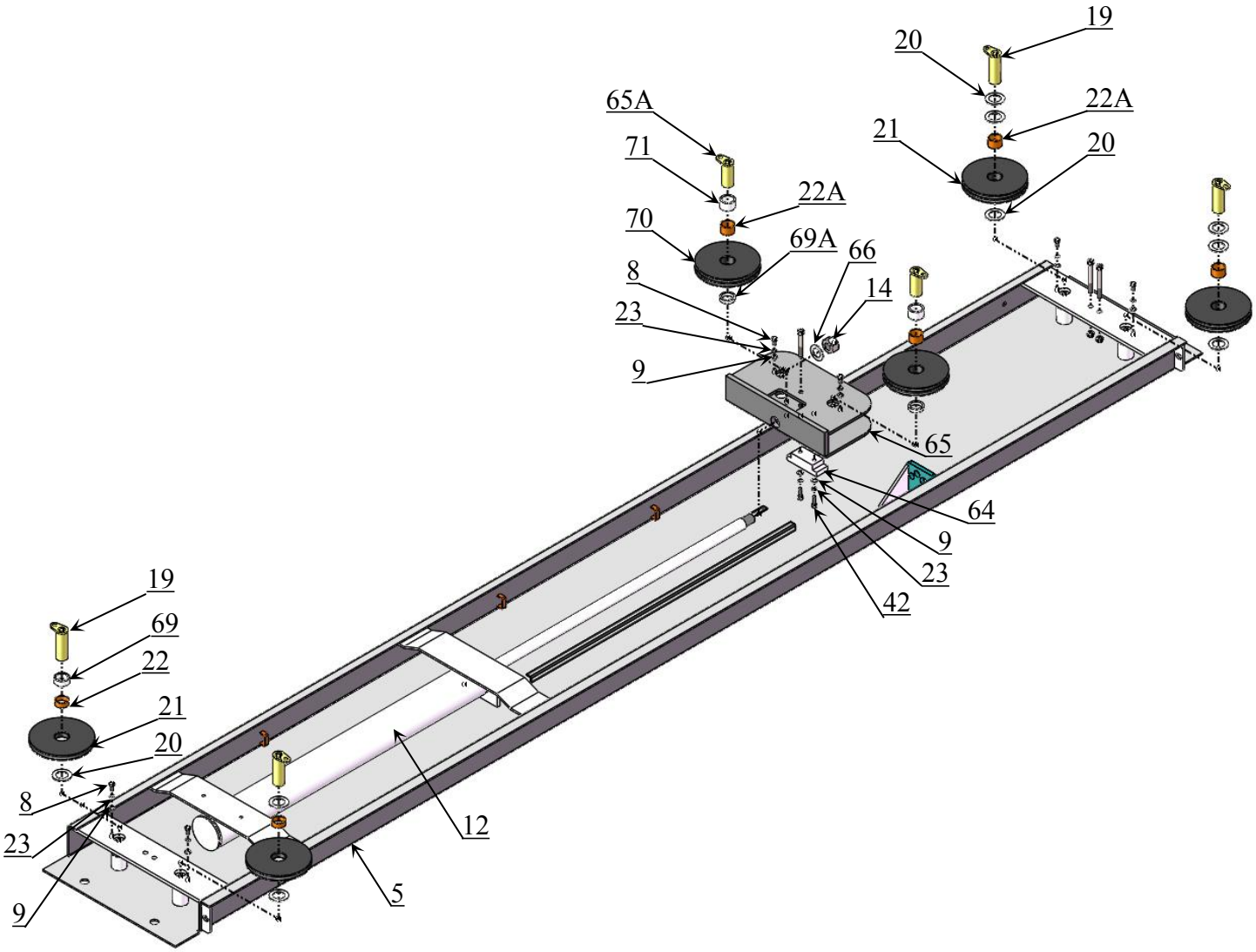


Fig.40


19
20
65A
22A
71
21
20
22A
70
69A
66
8
14
23
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64
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42
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12
5

Fig.41

PARTS LIST FOR MODEL A430-HP

Item	Part#	Description	QTY	Note
1	11410075	Offside Column	3	
2	11410074	Power-side Column	1	
3	1104542001B	Cross Beam A	1	
4	1104553001B	Offside Platform	1	
5	1104553001A	Power-side Platform	1	
6	1104542001B	Cross Beam B	1	
7	1104543020C	Folding ramp	2	
8	10201002	Hex Bolt M8*16	6	
9	10209033	Washer φ8	44	
10	10209005	Self locking Nut	28	
11	11423004	Cylinder fixed ring	1	
12	1004536000	Cylinder φ80*1041	1	
13	1104533013A-01	Cable connecting plate	1	
14	10410012	Hex NutM24	1	
15	10201005	Split Pin φ4*50	1	
16	81523021	Electric power unit	1	
17	10420175A	Hex nut M20	8	
17A	10209066	Hex nut M16	8	
17B	1104541002	Cable adjustment sleeve	4	
17C	1104541001	Cable cushion cover	4	
18	11410073-01	Safety ladder L=2324	4	
19	1104543009A	Pulley pin φ30*86.5	2	
20	10481005	Washer φ30	21	
21	1104543011	Pulley φ167*16	2	
22	1004542002	Lock washer φ36*φ30.1*15	6	
22A	10620141	Washer φ36*φ30.1*24	4	
23	10209034	Lock washer φ8	22	
24	10410013	Hex Bolt M16*30	8	
25	10420137	Lock washer φ16	8	
26	10420029	Washer φ16	8	
27	10410014	Hex Bolt M16*35	4	
28	11410015-1	Tire stop plate	2	
29	10206006	Washer φ12	4	
30	10420026	Lock washer φ12	4	
31	10410105	Hex Bolt M12*20	4	
32	10410016A	Plastic block 81*38*38mm	16	
33	10410017	Socket bolt M8*40	16	
34	10201090	Shim(1mm)	20	
	10620065	Shim (2mm)	20	
35	1004553003	Cable ① 8*4595mm	1	
36	1004553004	Cable ② 8*10156mm	1	
37	1004553002	Cable ③ 8*5997mm	1	
38	1004553001	Cable ④ 8*8726mm	1	
39	85090099	Socket Bolt M10*90	2	
39A	85090332	Socket Bolt M10*70		
40	1104552001	Connecting bar for safety device	2	
41	11410024	Connecting tube	1	
42	10209032	Socket bolt M8*25	4	
43	10217005	Plastic ball M10	1	
43A	10209056	Self locking Nut M10	1	
44	10410025	Socket bolt M8*35	4	

Item	Part#	Description	QTY.	Note
45	11410026	Safety release handle	1	
45A	11410100	Extension lock release handle	1	
45B	1004554006	Handle rope	1	
46	10209004	Rubber ring φ8*φ20*3	4	
47	10209003	Hex Bolt M8*25	8	
47A	10209043	Hex Bolt M8*20	4	
47B	10217002	Hex nut M8	4	
48	10420166	90^0 Screw joint fitting	1	
49	11420243	Straight Fitting 3/8NPT(M)*G3/8(M)	1	
49A	11420245	Straight Fitting G3/8(F)*3/8NPT(F)	1	
49C	11209119	Pressure compensated flow restrictor	1	
49C	10201020	90^0 Fitting	1	
50	1004553005	Oil hose1/4*2318mm	1	
51	10420120	Extend straight fitting with nut	1	
52	1004543008-01	Oil hose 1/4*1420mm	1	
53	10209060	90^0 Fitting for power unit	1	
54	10420095	Straight fitting	1	
55	1004553006	Oil return hose	1	
56	1004533008	Protective hoseφ20*1*1400mm	1	
57	10209145A	Cup head bolt with washer	8	
58	1104542012	Plastic cover for cross beam	4	
59	1004542001	Spring φ14*2.0*50	4	
60	10410146	Spring φ14*2.0*75	4	
61	10209059	Anchor bolt 3/4*5-1/2	16	
62		Parts box	1	
63	1104551003	90° installing plate	1	
64	1004543006	Limit block106*40*29	1	
65	1104533013A-01	Cable connecting plate	1	
65A	1104533017A-01	Pulley pin φ30*77.5	2	
66	10640109	Washer Φ25.5*44*2	1	
67	10410114	Control box(Single phase)	1	
67A	10420045	Washer	2	
67B	10209145	Cup head bolt M6×12	2	
67C	10410107	Wire of solenoid valve	1	
67D	10420168	White strap	1	
67E	10217135	Motor wire	1	
68	10206013	Limit Switch	2	
68A	10206011	Cup head bolt M5×12	12	
68B	11420010A	Fixing Plate For Limit Switch	2	
68C	10410108	Wire of Limit switch 2*1²*1200mm	2	
69	1104543016	Adjusting sleeve ϕ40*4*18	1	
69A	1104543019	Adjusting sleeve ϕ40*4*9	2	
70	1104543017	Pulley ϕ167*25	4	
71	1104533024	Sleeve ϕ40*4*23	2	
Optional kits				
72	11410040	Jack tray	1	
73	1040801	Caster kits	4	
74	96600002	Sliding jack J5H	1	
75	1140802B	Motor fixing bracket	1	
76	10410039	Plastic oil tray	4	

Control box (Parts No.: 10410114(Three phase) & 10410178(Single phase))

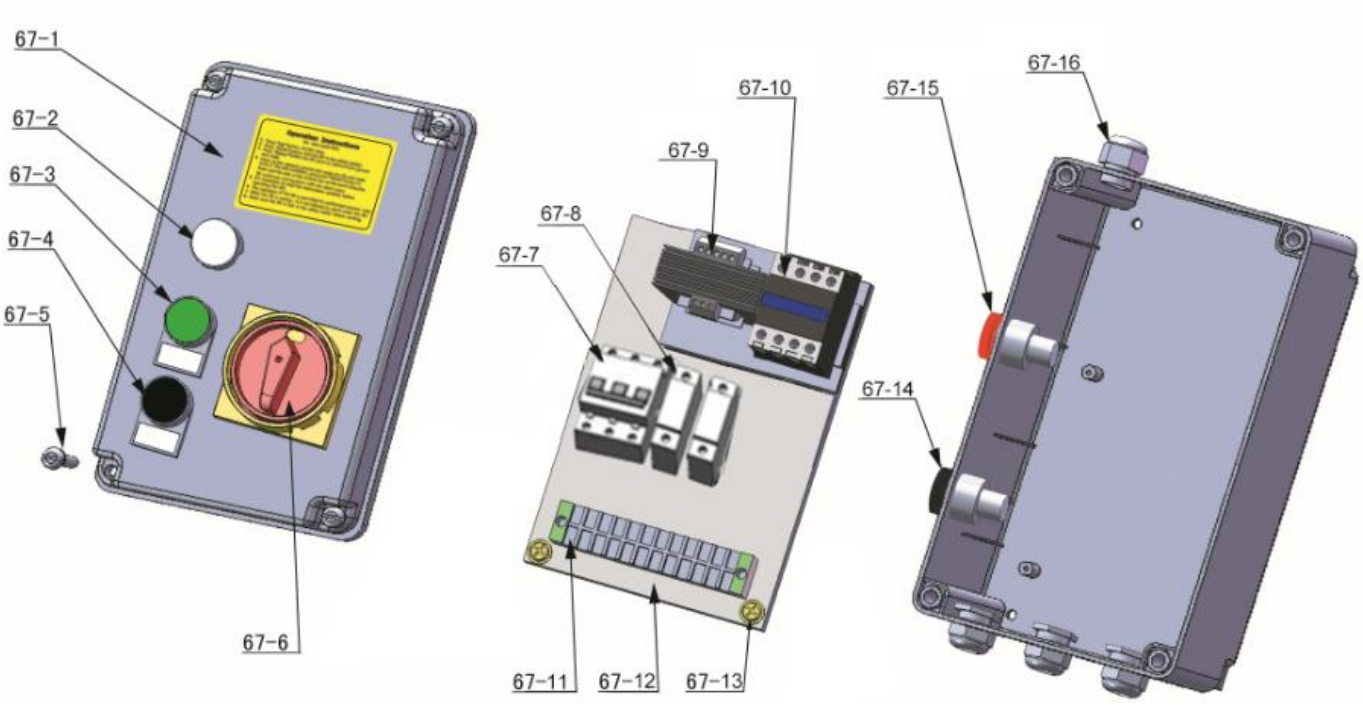


Fig.42

Item	Part#	Description	QTY.	Note
67-1	10420069A	Cover Of Control Box	1	
67-2	10201094	Power Indicator	1	
67-3	10420070	Button **UP**	1	
67-4	10420070	Button **Down**	1	
67-5	10420139	Screw	4	
67-6	10420074	Power Switch (QS1)	1	
67-7	10202047	Breaker 3P(three phase)	1	
	10202046	Breaker 2P(Single phase)	1	
67-8	10202049	Breaker 2P	2	
67-9	10420134	Transformer (TC)	1	
67-10	10420084A	24V AC Contactor (KM)	1	
67-11	10620082	Connecting terminal	1	
67-12	10420133A	Panel for Installing Element	1	
67-13	10420073	Cup Head Bolt	4	
67-14	10420142	Lowering alarm button Pass	1	
67-15	10420143	Buzzer	1	
67-16	10420088	Fitting For White Wire Cable	4	

CYLINDERS(1004536000)

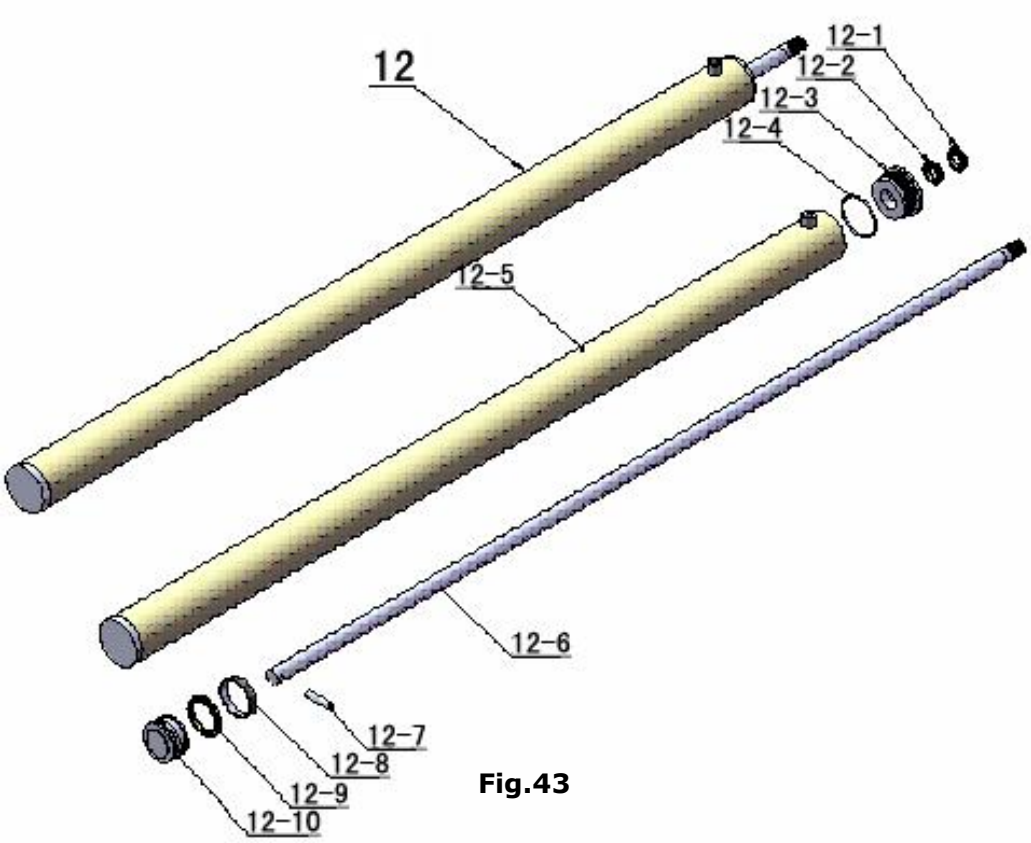


Fig.43

Item	Part#	Description	QTY.	Note
12-1	10420059	Dust Ring	1	
12-2	10420060	Y- Ring	1	
12-3	11420061	Head Cap	1	
12-4	10420062	O- Ring	1	
12-5	1004536001A	Bore Weldment	1	
12-6	1104536002	Piston Rod	1	
12-7	11420065	Pin	1	
12-8	10420066	Support Ring	1	
12-9	10420067	Y- Ring	1	
12-10	11420068	Piston	1	

CROSS BEAM（1104542001B）

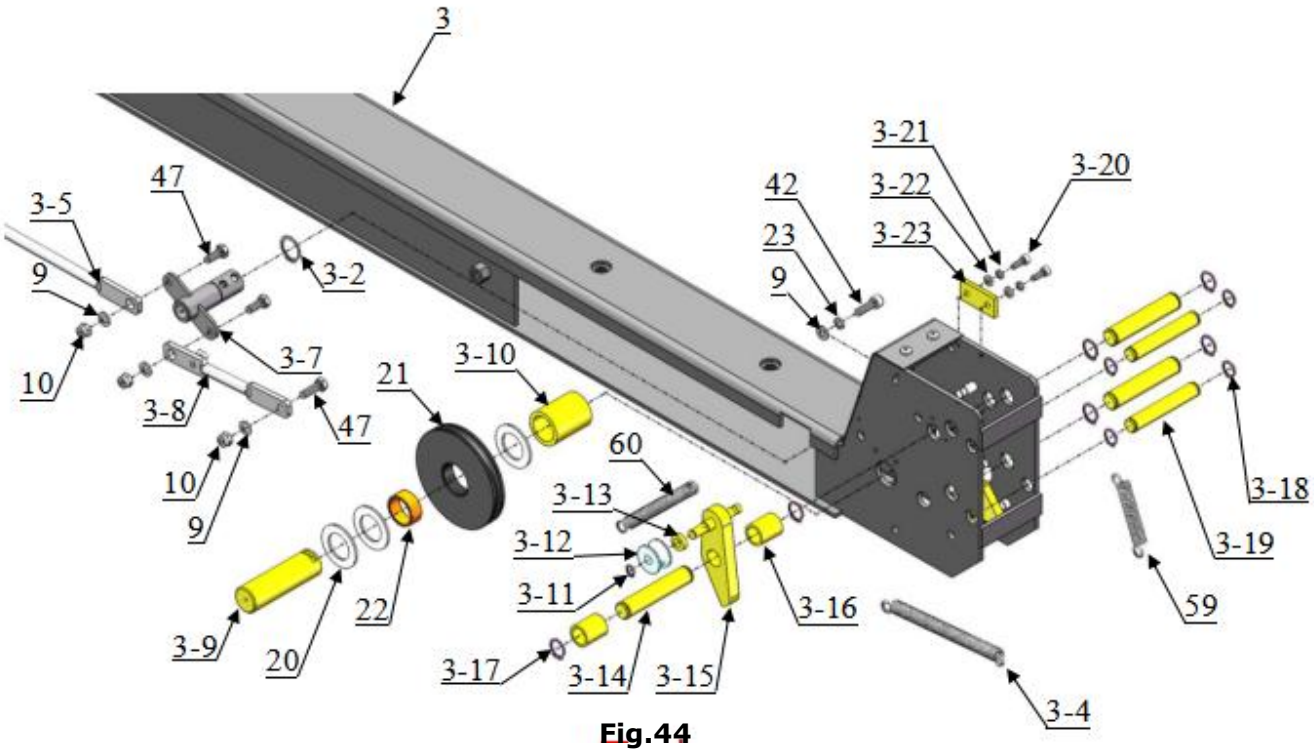


Fig.44

Item	Part#	Description	QTY.	Note
3-2	10206032	Snap ring Φ25	2	
3-3	10217020	Bronze bush Φ31* Φ25.1*16	2	
3-4	10410099	Spring Φ14* Φ2.5*100	2	
3-5	1104542008-01	Connecting bar for safety lock	2	
3-6	1104572003A	Self locking Nut M12	2	
3-7	1104542011A-01	Safety locks connecting	2	
3-8	1104542011A	Connecting bar for safety lock	2	
3-9	1104542006-01	Pulley Pin Φ30*100	4	
3-10	1104542007	sleeve Φ40*4*51.5	4	
3-11	10209010	Snap ring Φ10	4	
3-12	10420035	Tension pulley	4	
3-13	11420174	Spacer Φ18*4*5.5	4	
3-14	11420171	Pin Φ19*98	12	
3-15	11420175	Slack-cable safety lock (Left & Right)	2/ea.	
3-16	11420172	Pin Bush For Slack-cable safety lock	8	
3-17	10206019	Snap ring	24	
3-18	10420037	Snap ring	16	
3-19	11420038	Pin Φ16*98	8	
3-20	10420138	Socket Bolt M6*16	8	
3-21	10209149	Lock washer Φ6	8	
3-22	10420045	Washer Φ6	8	
3-23	11420044	Stop block	4	

ELECTRIC POWER UNIT EXPLOSION VIEW (81523021)

220V/50HZ/1Phase

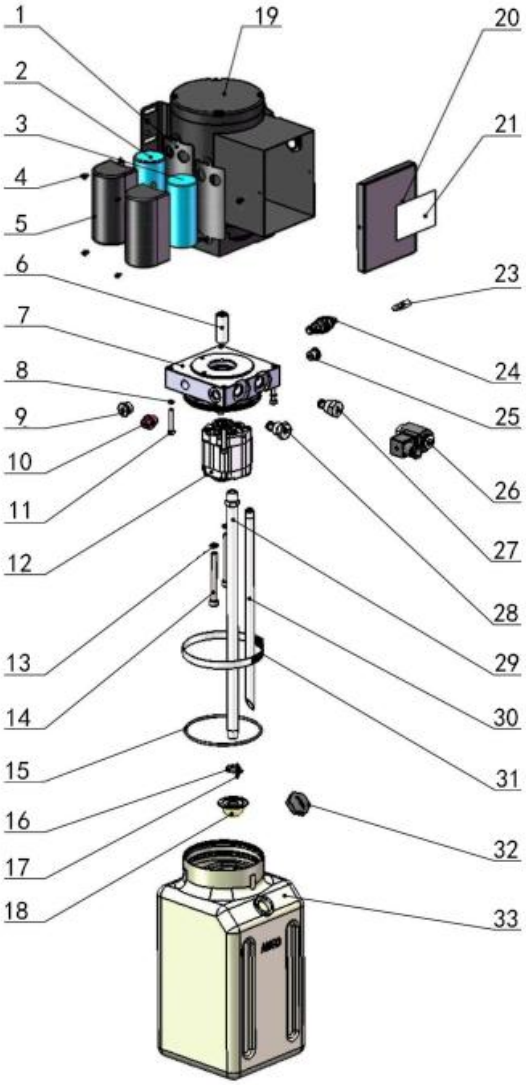


Fig. 45

220V/50HZ /1Phase Electric Power Unit Parts list

Item	Part#	Description	Qty.	Note
1	81400180	Rubber Pad	2	
2	81400250	Start capacitor	1	
3	81400200	Run Capacitor	1	
4	10420148	Cup head bolt with washer	6	
5	81400066	Protective cover for capacitor	2	
6	81400363	Motor Connecting Shaft	1	
7	81400362	Manifold Block	1	
8	10209149	Lock Washer	4	
9	81400276	Hex iron plug	1	
10	81400259	Red Plastic Plug	1	
11	85090142	Socket bolt	4	
12	81400292	Gear pump	1	
13	10209034	Lock Washer	2	
14	81400295	Socket bolt	2	
15	81400365	O Ring	1	
16	10209152	Ties	1	
17	85090167	Magnet	1	
18	81400290	Filter net	1	
19	81400287	Motor	1	
20	81400287	Cover of Motor Terminal Box	1	
21	71111108	AMGO Nameplate	1	
22	81400560	Throttle valve	1	
23	81400266	Relief Valve	1	
24	81400284	Iron plug	1	
25	81400420	Solenoid valve coil	1	
26	81400423	Release valve(electrical)	1	
27	81400566	Check valve	1	
28	81400288	Inlet pipe	1	
29	81400289	Oil return pipe	1	
30	81400364	Hose clamp	1	
31	81400263	Oil tank cap	1	
32	81400320	Oil tank	1	

Illustration of hydraulic valve

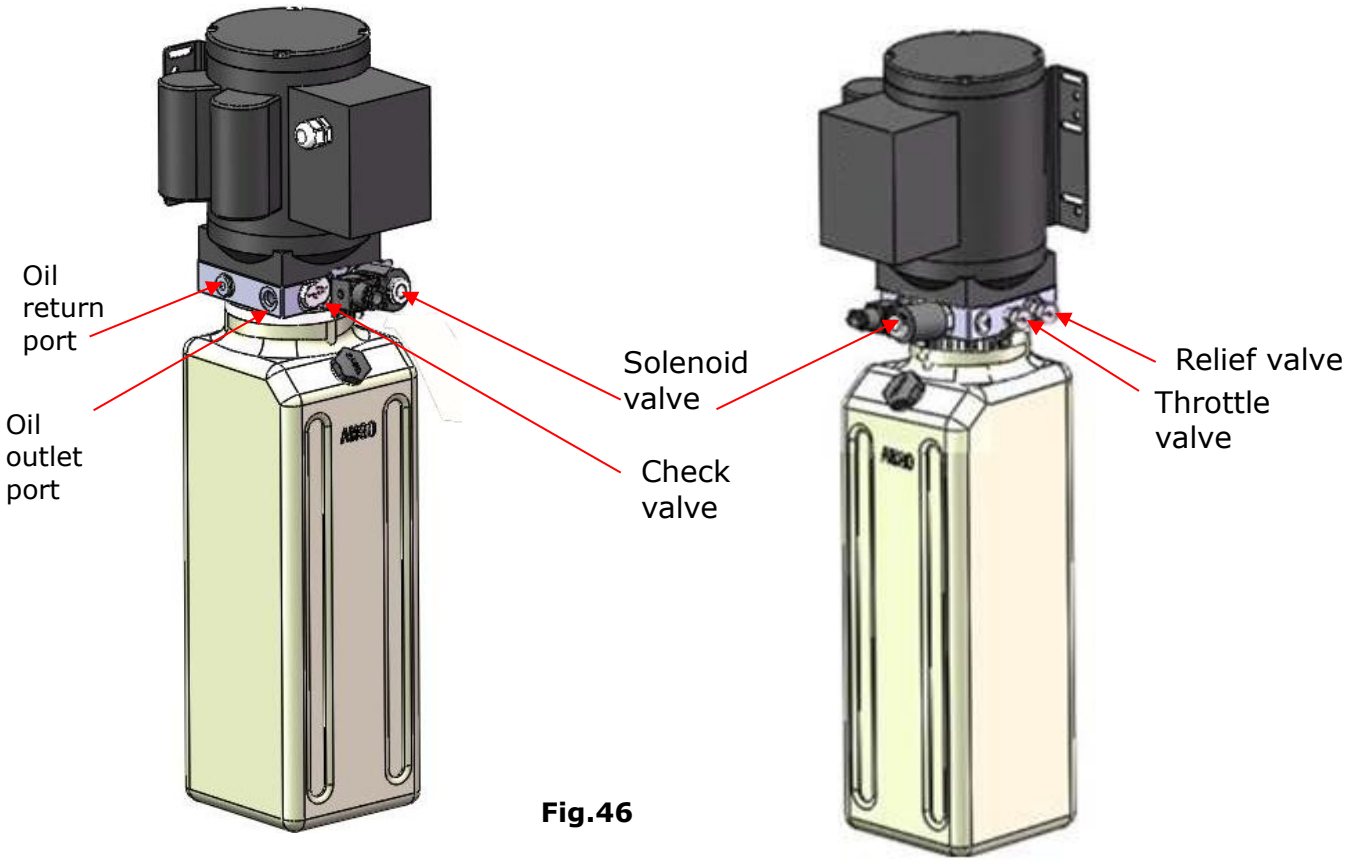
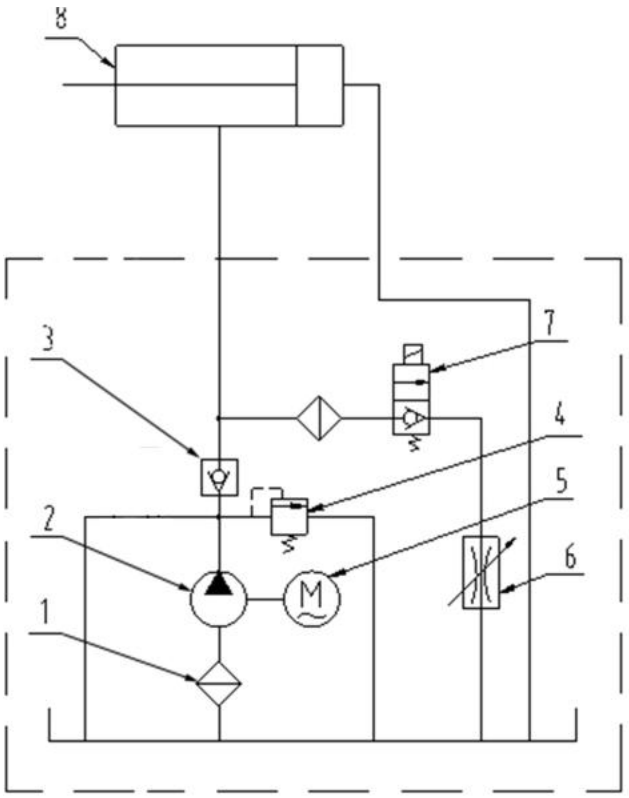


Fig.46

V. TEST RUN

1. Fill the reservoir with approximately 6L Hydraulic Oil (**Note**: In consideration of Power Unit's durability，please use **Hydraulic Oil 46#**);
2. Press button UP ↑ till the cables are strained. Check the cables and confirm they are in the proper pulley position. Make sure the cables are not across.
3. Press button Down1 ， the cross beam will be locked to the safety ladders ; and then adjust the platforms to be level by adjusting the nuts of safety Ladder. Tighten the nuts above and under the safety ladder top plate after leveling.
4. Adjust the cable fitting hex nuts to make platforms and four safety locks work synchronously. You need to run the lift up and down for several times, meanwhile do the synchronous adjustment till the four safety devices can lock and release at the same time.
5. Adjust the clearance between the column and the slide block of cross-beam, Do not tighten the bolts of the slide block, let the sliding block can be turned smoothly after installing the bolts.
6. After finishing the above adjustment, test running the lift with load. Run the lift with platforms in low position first, make sure the platforms can rise and lower synchronously and 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.

Circuit Diagram of Hydraulic System



NOTE

1. Filter
2. Gear pump
3. Check valve
4. Relief valve
5. Motor
6. Throttle valve
7. Solenoid valve
8. Cylinder for 4 post

Fig.47

VI. OPERATION INSTRUCTIONS

A. To lift vehicle

1. Keep work area clean around and near the lift;
2. Drive vehicle to the Platform and put on the brake;
3. Take off the drive-in ramp and install rear wheel stop plates to the drive-in ramp position.
4. Turn on the power source switch , press button **UP** ↑ and rise the lift to the working position.

Note: when the lift is rising make sure the vehicle is steady.

5. Press button **Down** , lock the lift on the safety ladder and make sure the lift is locked on the same position on the ladder before start to work.

B. To lower vehicle

1. Be sure the clearance of around and under the lift, only leaving operator in lift area;
2. Press button **UP** ↑, and rise the lift for 3-5 seconds, then pull down the safety release handle, make sure the safety device released, and then keep pressing the safety release handle by one hand and press button **Down** by another hand, the lift will fall down slowly. The lift will be stopped automatically when coming down to about 400 mm to ground. Check around and make sure it is safety and no any obstacle under the lift, then push both **DOWN** and **Lowering alarm button K** (the one on the side) at the same time, the lift would be lowered with the tone alarm;
3. After the lift lower to the lowest position, take off the rear stop plate, install the drive-in ramp and drive away the vehicle.

4. Turn off the power source.

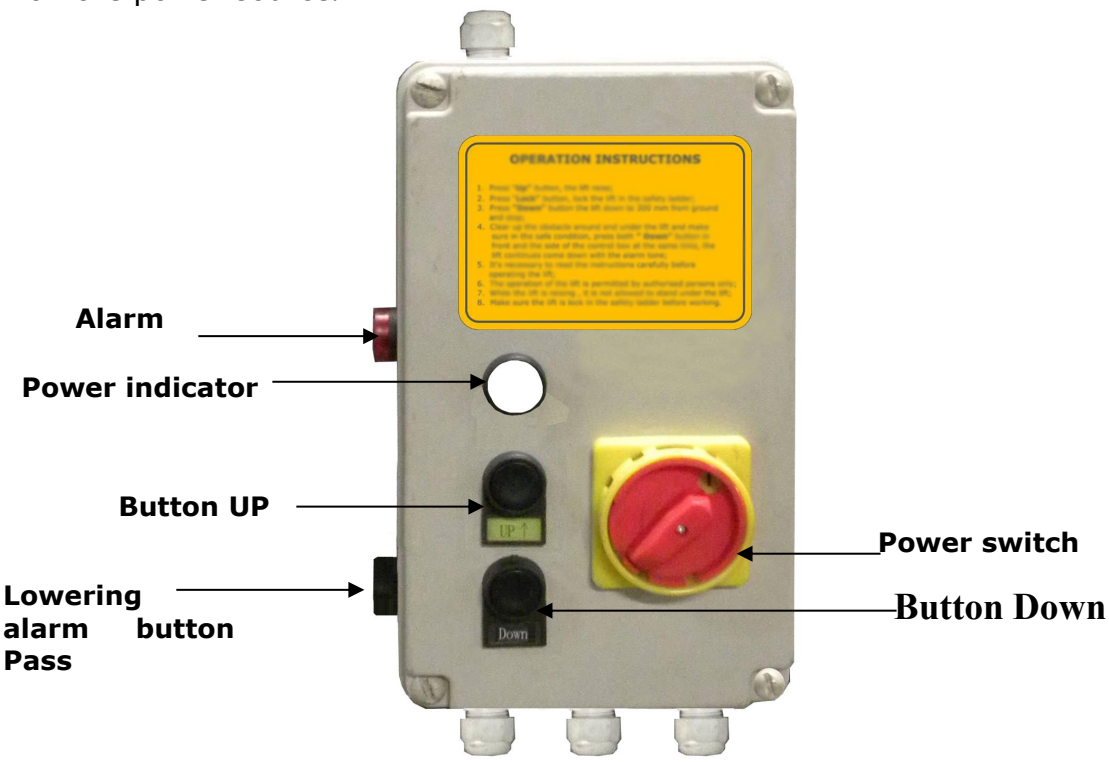


Fig.48

VII. MAINTENANCE

Monthly:

1. Lubricate cable with lubricant;
2. Inspect if there is crack for all the cables;
3. Make a visual inspection if abrasion and leakage for all the hydraulic hose/lines;
4. Lubricate the pulley and safety device with gear oil.

Every six months:

5. Make a visual inspection for all the possible abrasion, interference and damage for the moving part;
6. Inspect and adjust the tension for cable accordingly to make sure the lift is level;
7. Inspect if the column is plumb to ground.

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. AC contactor burned out	1.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. Release valve in damage 3. Gear pump 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.Pump leaks 5.Overload lifting	1.Clean the oil line 2.Check electrical system 3. Fill tank 4. Repair or replace pump 5.Check load
Lift cannot lower	1. Safety device are not in activated 2. Release valve damaged	1. Operate again 2. Repair or replace

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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