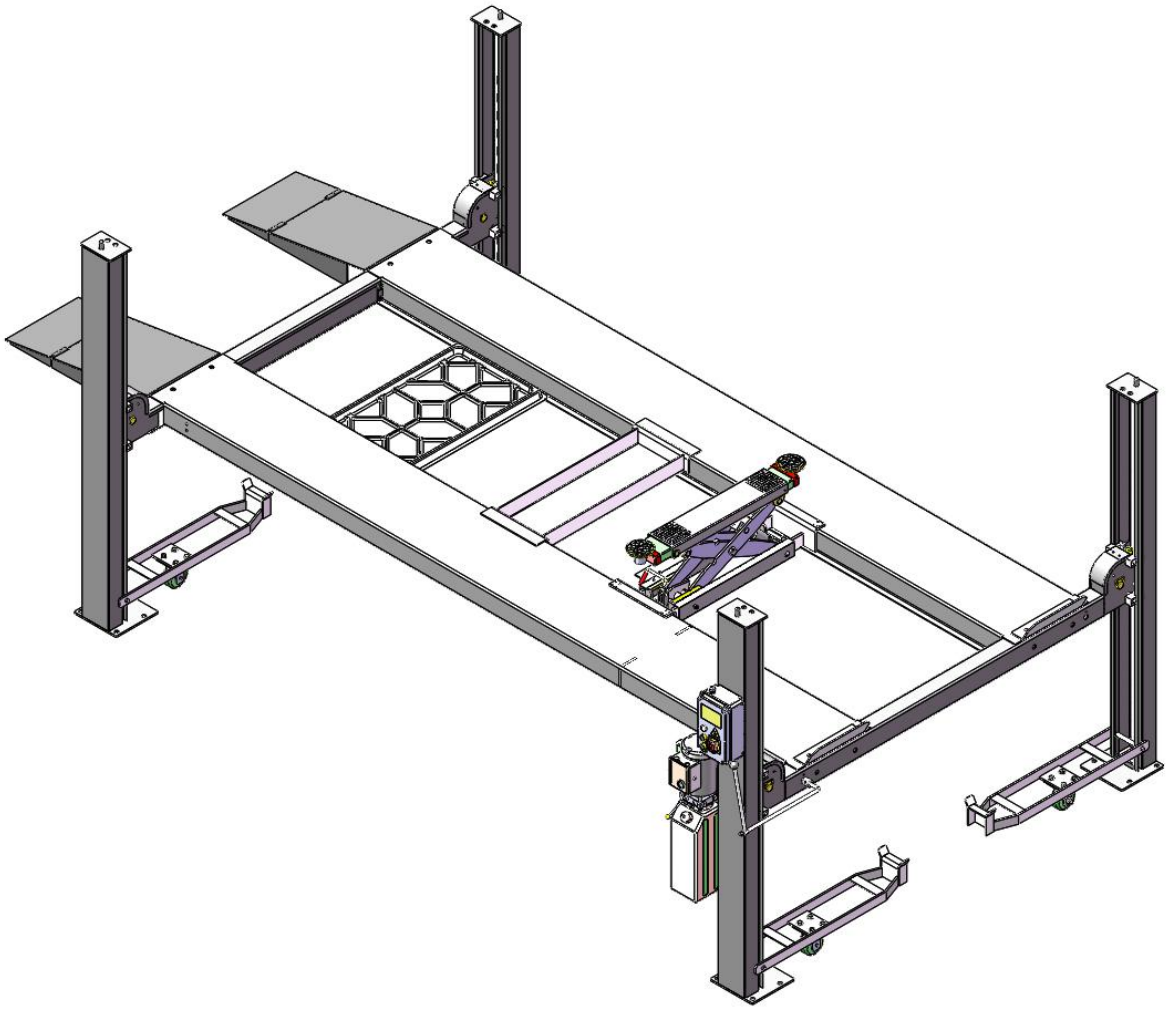
AMGO®

Original

Installation And Service Manual



FOUR-POST PARKING LIFT

Model: A435-P

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I. PRODUCT FEATURES AND SPECIFICATIONS

4-POST MODEL A435-P 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, Jack tray, Plastic oil tray.

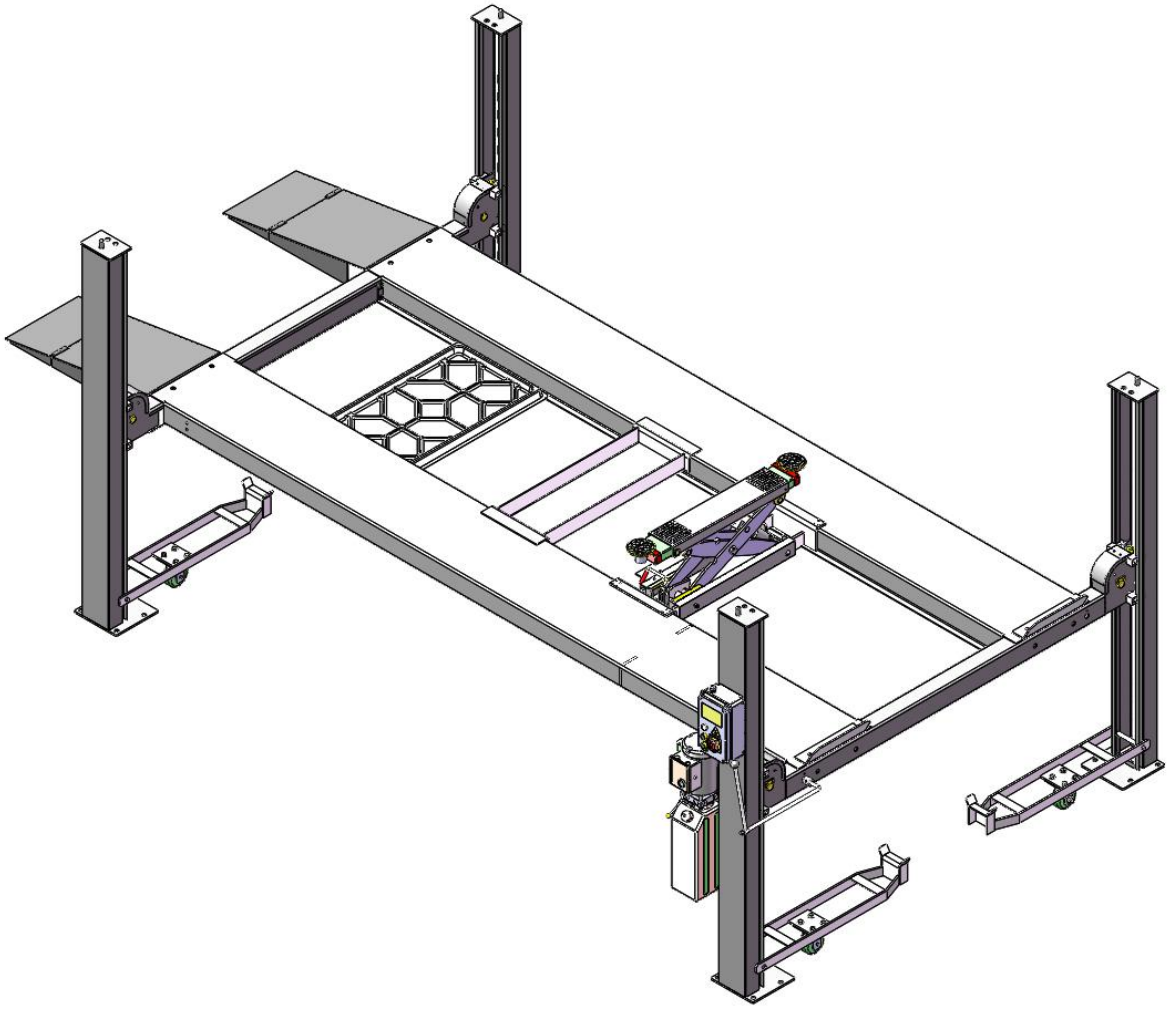


Fig.1

MODEL A435-P SPECIFICATIONS

Model	Lifting Capacity	Lifting Height	Lifting Time	Overall Length (Inc. Ramps)	Overall Width	Width Between Columns	Gross Weight	Motor
A435-P	3500KG	1864mm	46S	5257mm	2680mm	2438mm	820kg	220V:3.0HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

- Tape Measure（7.5m ）

- Carpenter's Chal

- 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.

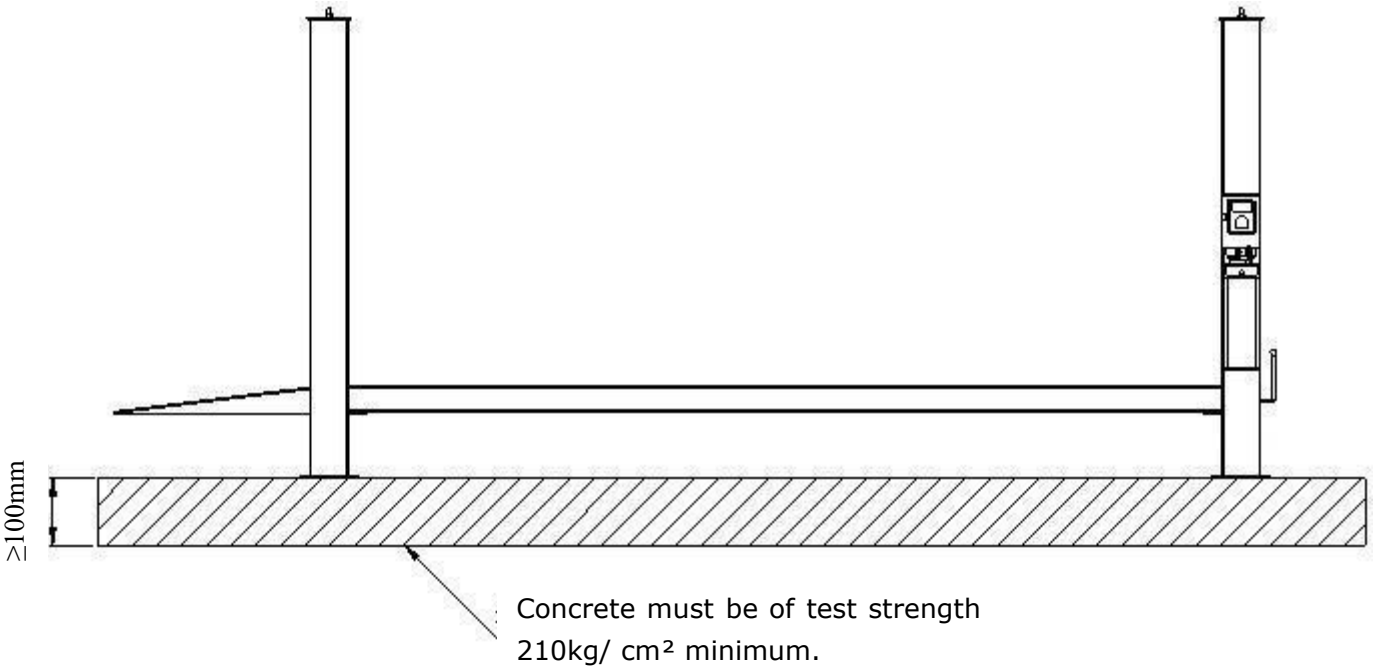


Fig.4

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

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

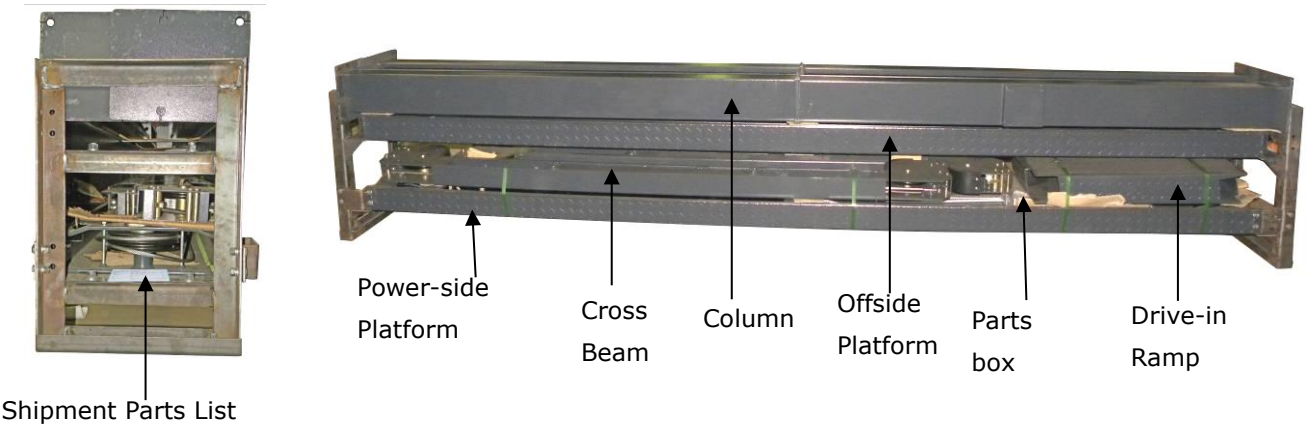


Fig.6

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

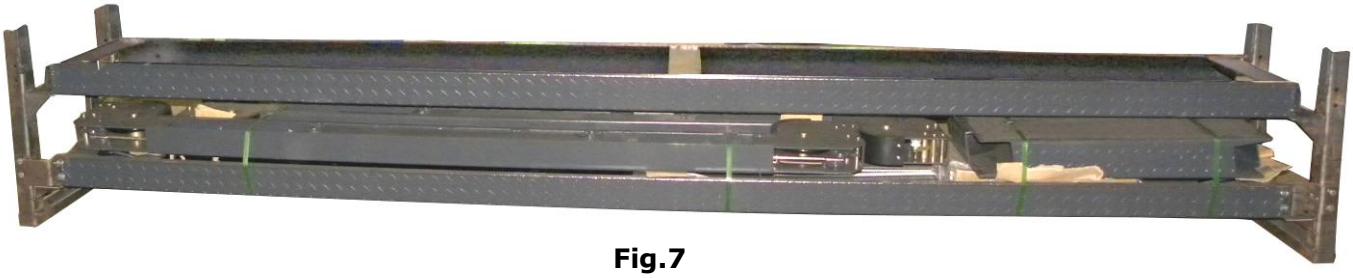


Fig.7

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.

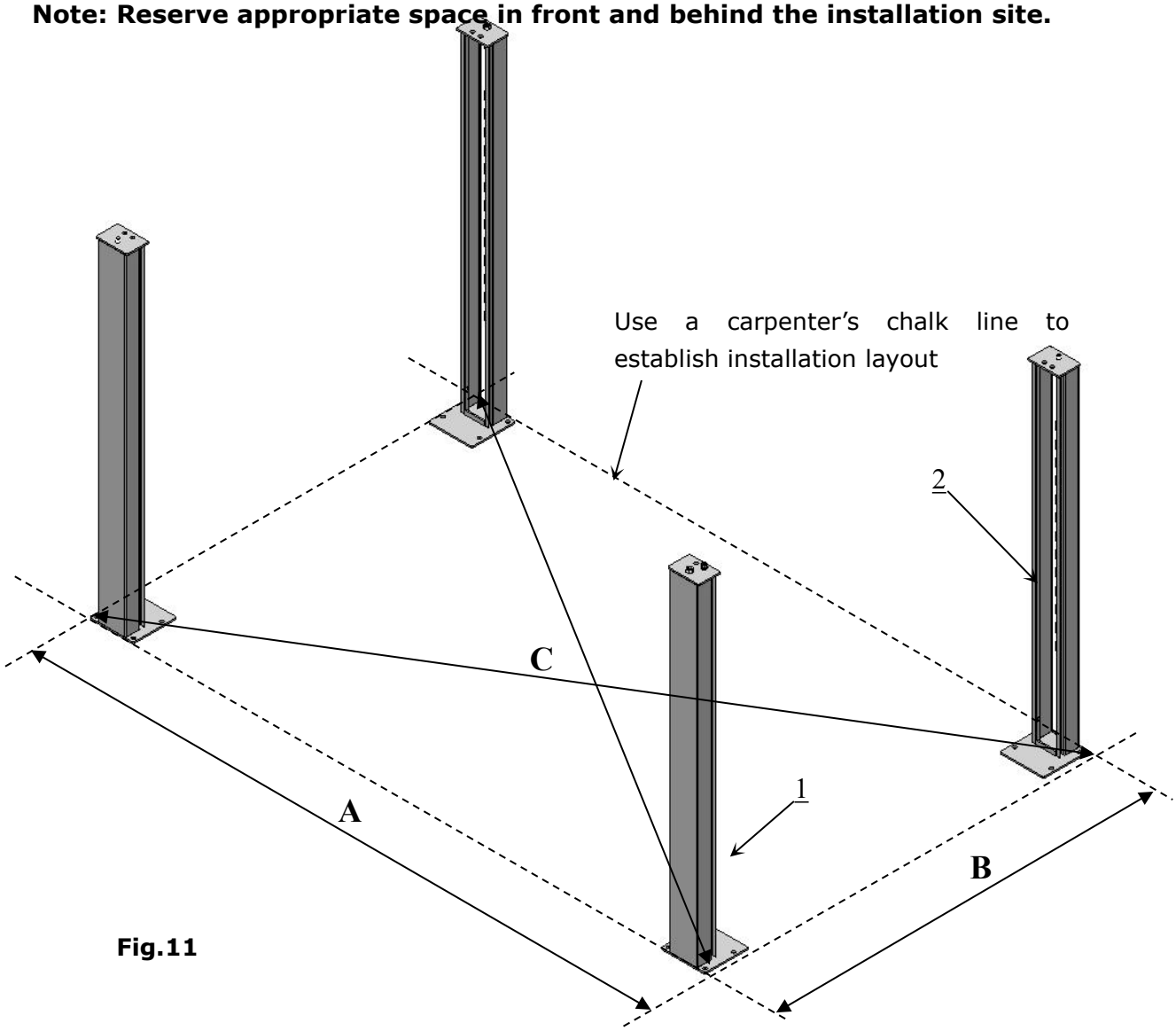


Fig.11

MODEL	A	B	C
A435-P	4415mm	2680mm	5165mm

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.

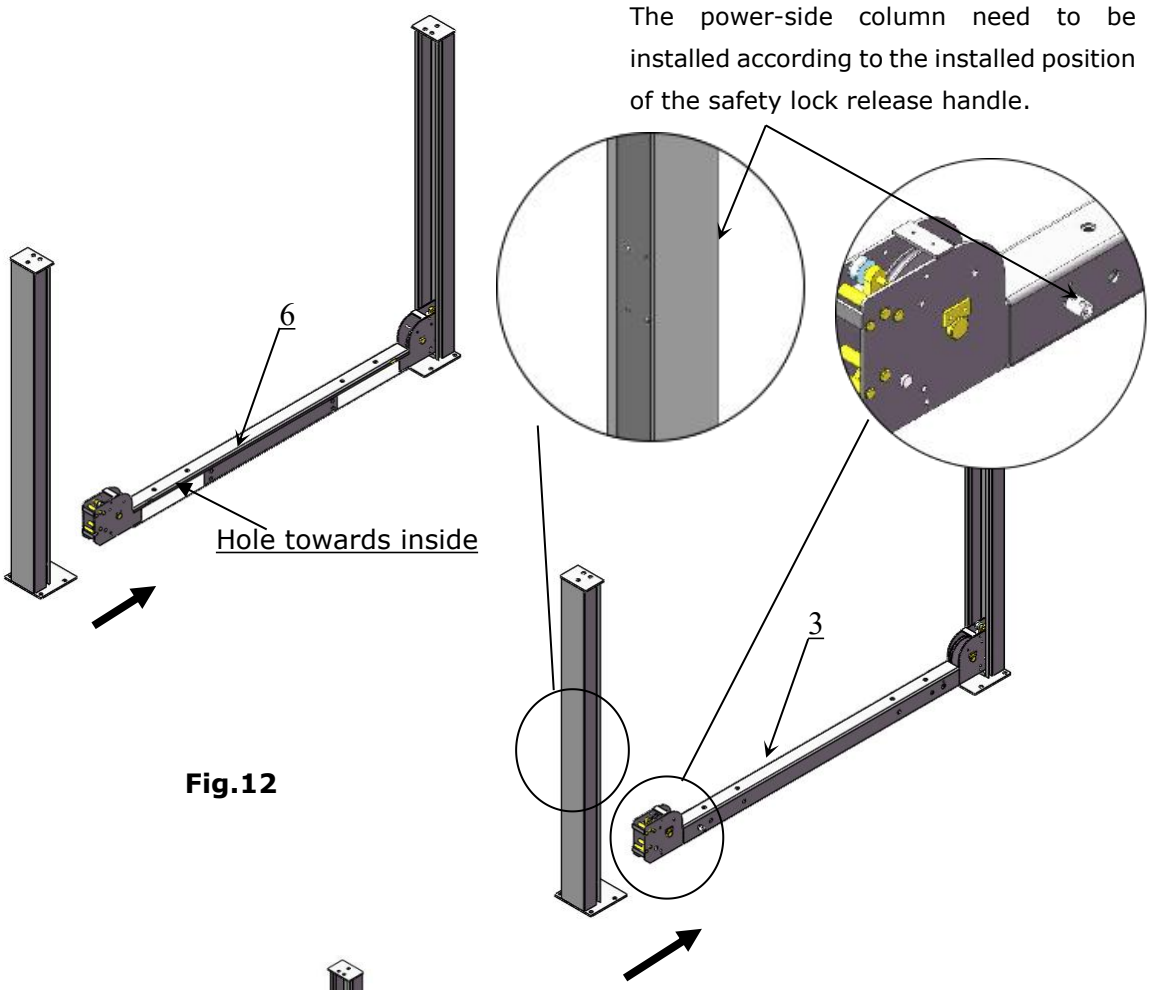


Fig.12

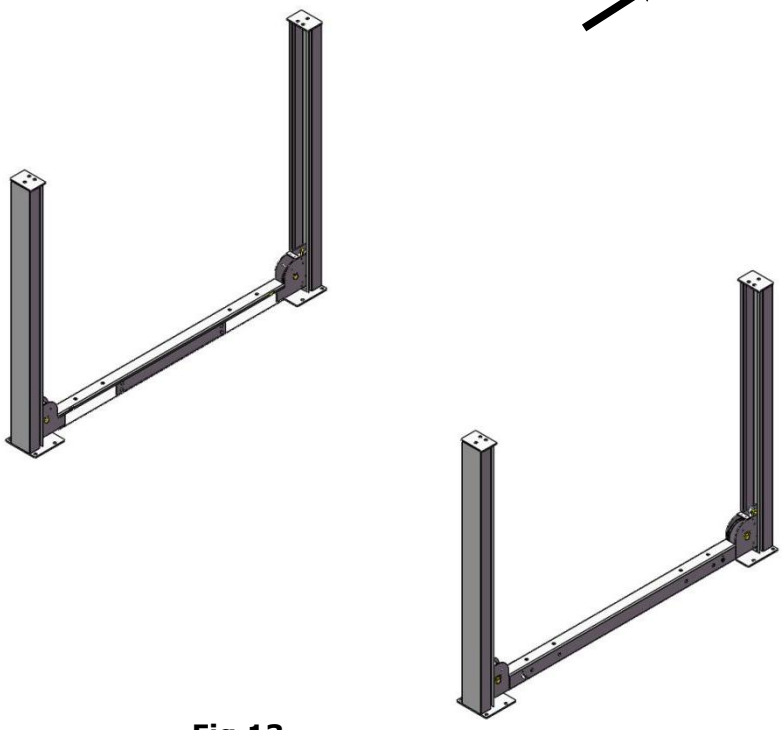


Fig.13

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).**

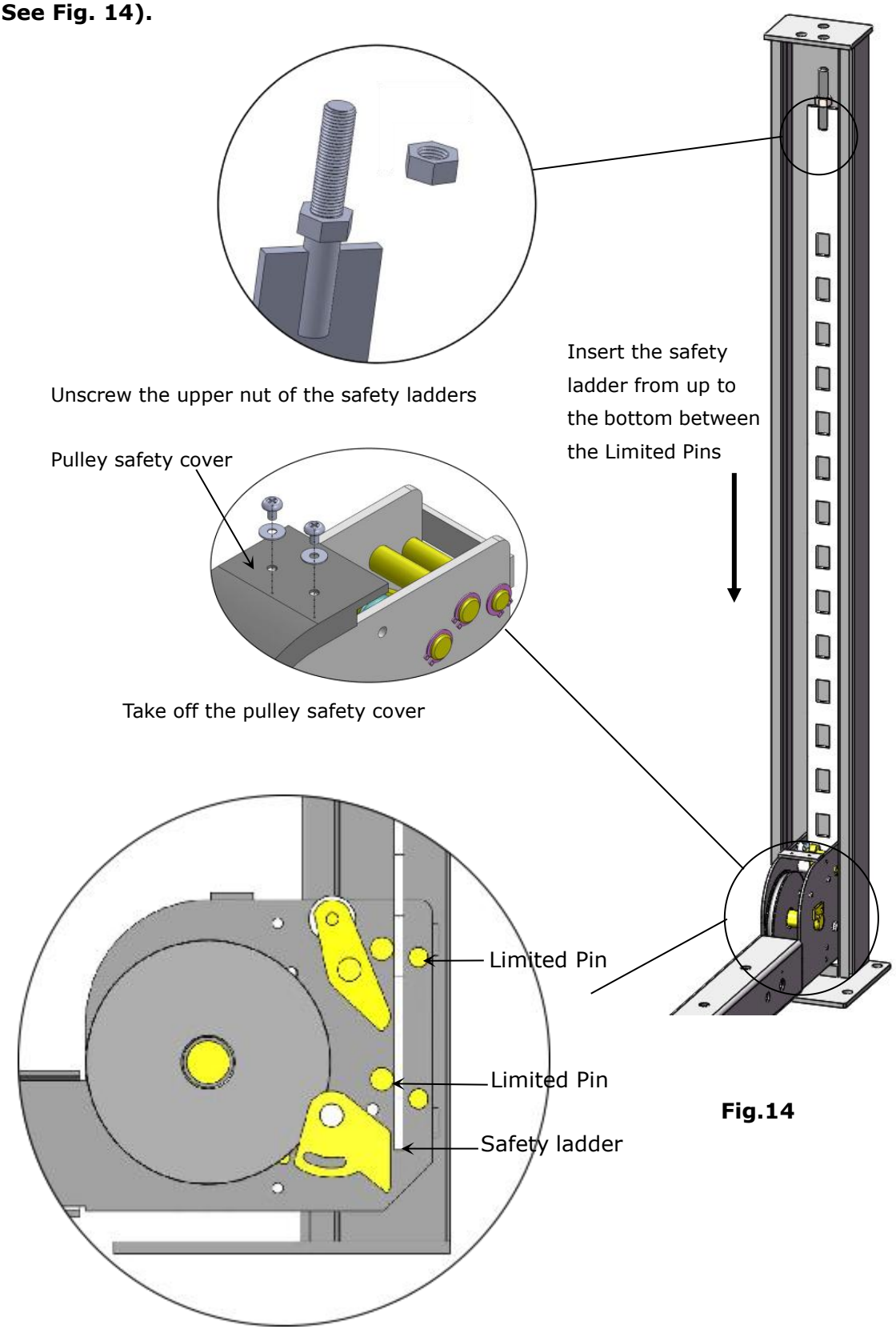
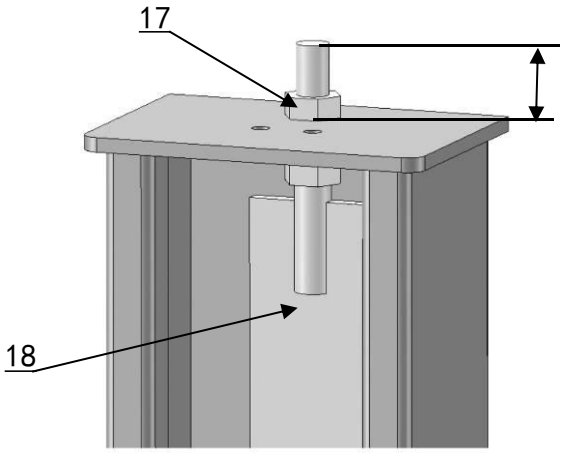


Fig.14

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).

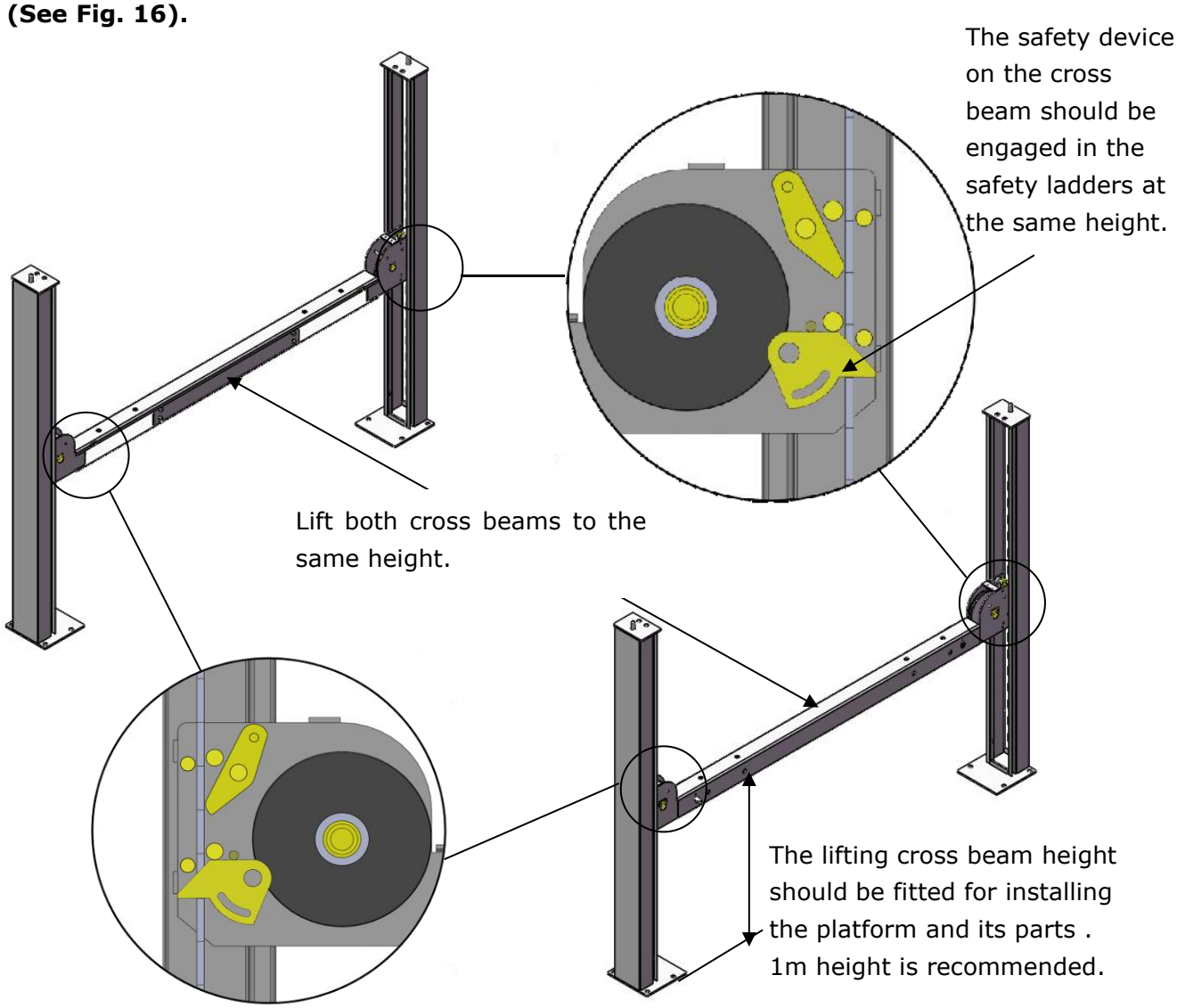


Fig.16

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.

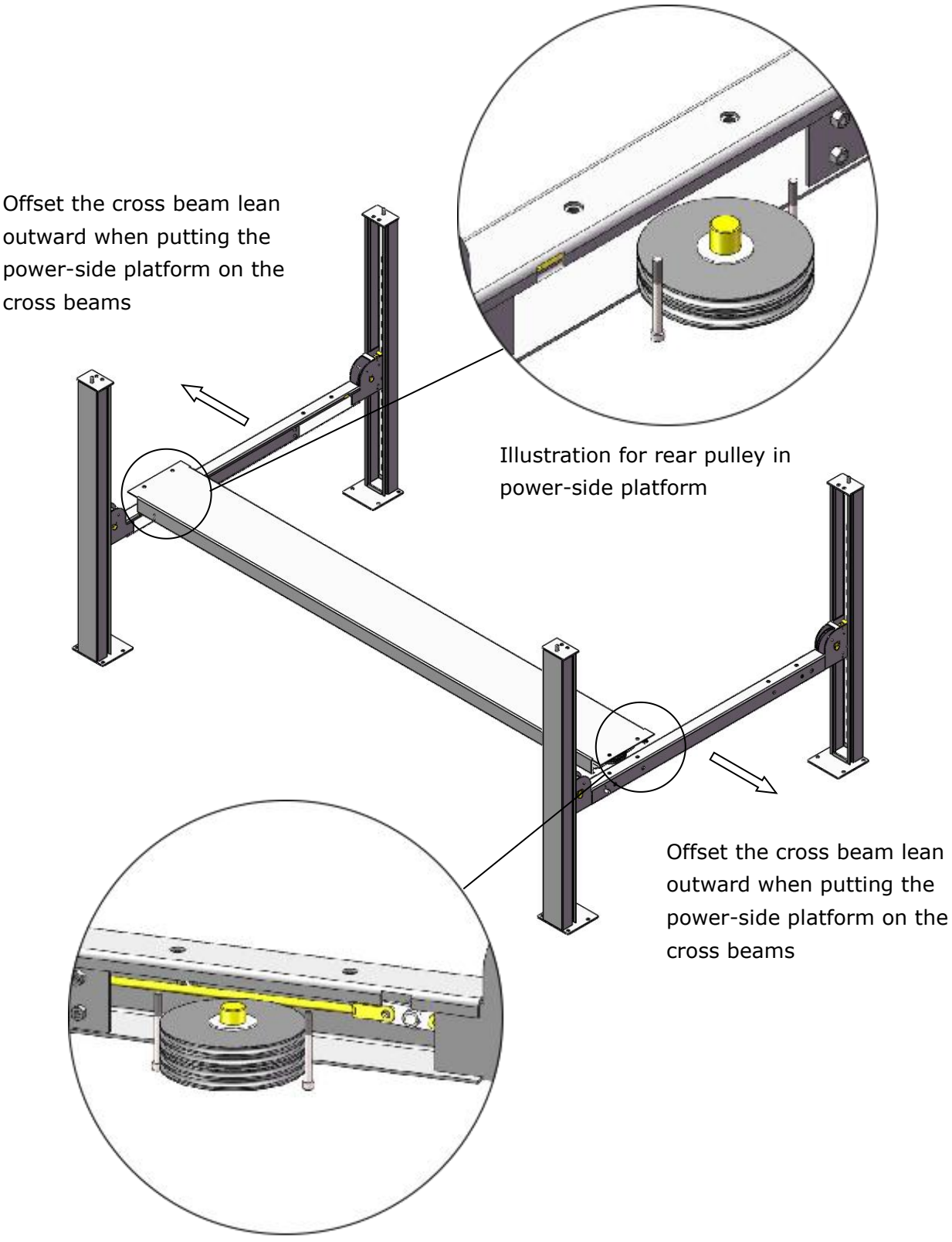


Fig.17

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)**

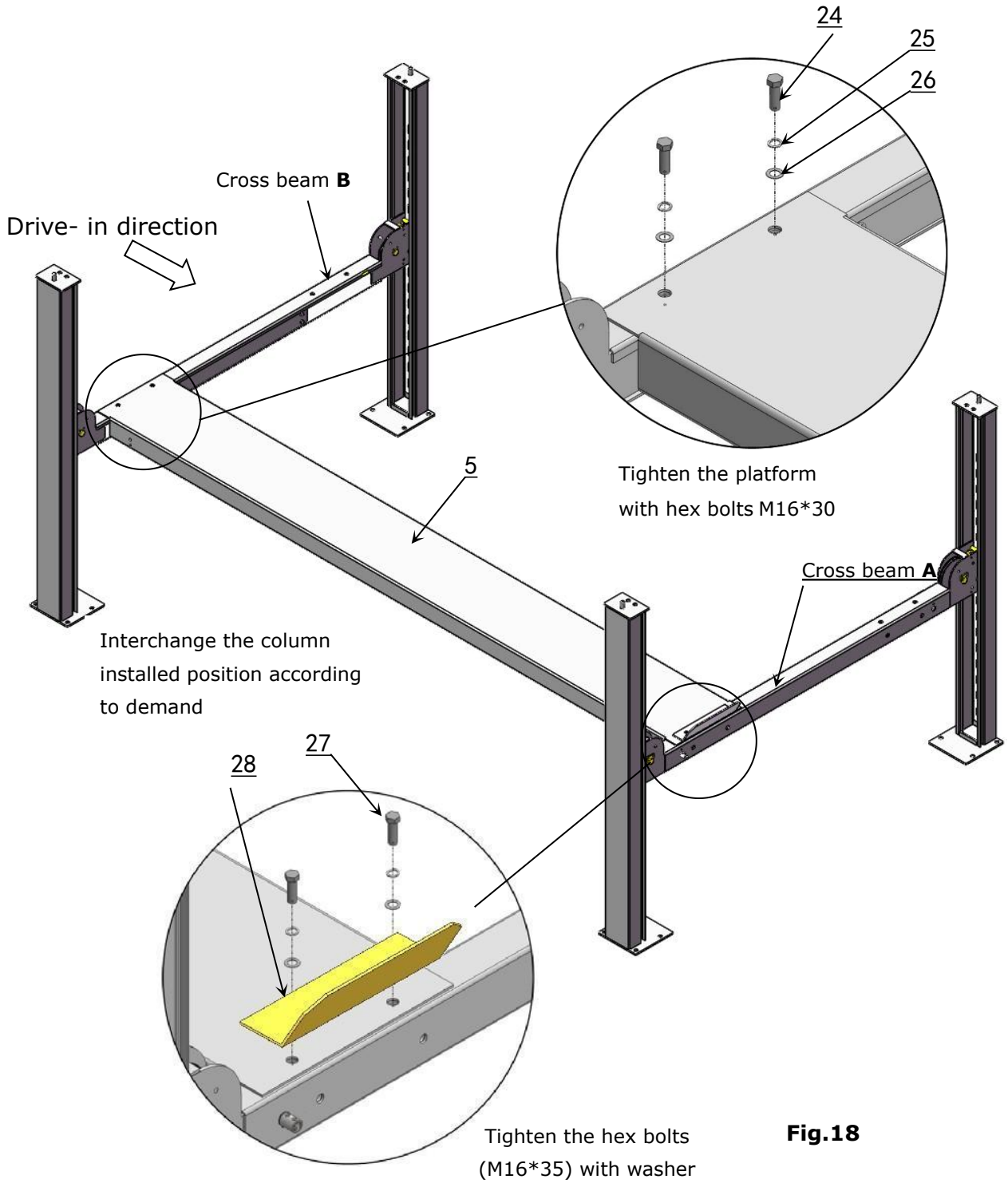
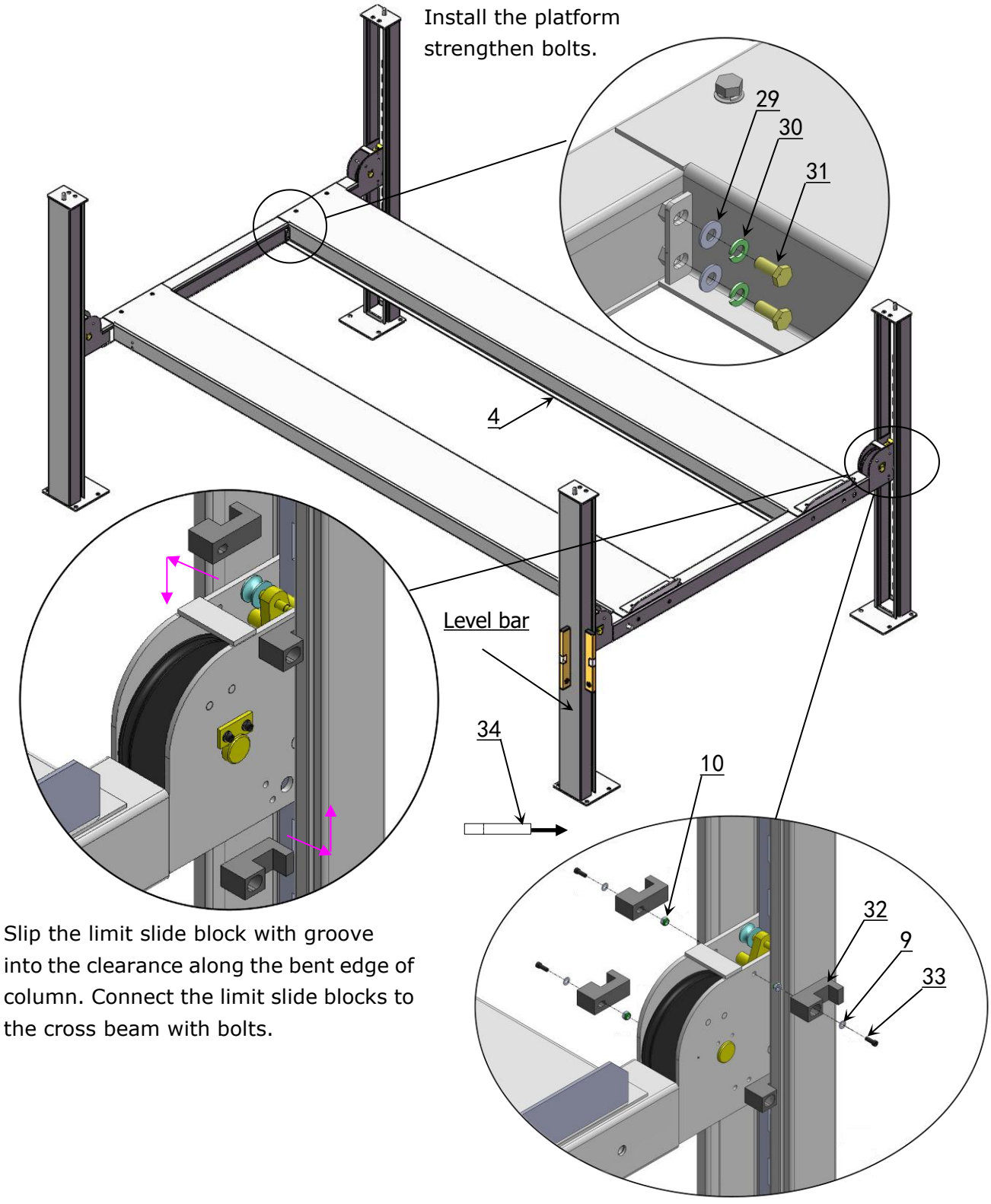


Fig.18

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.

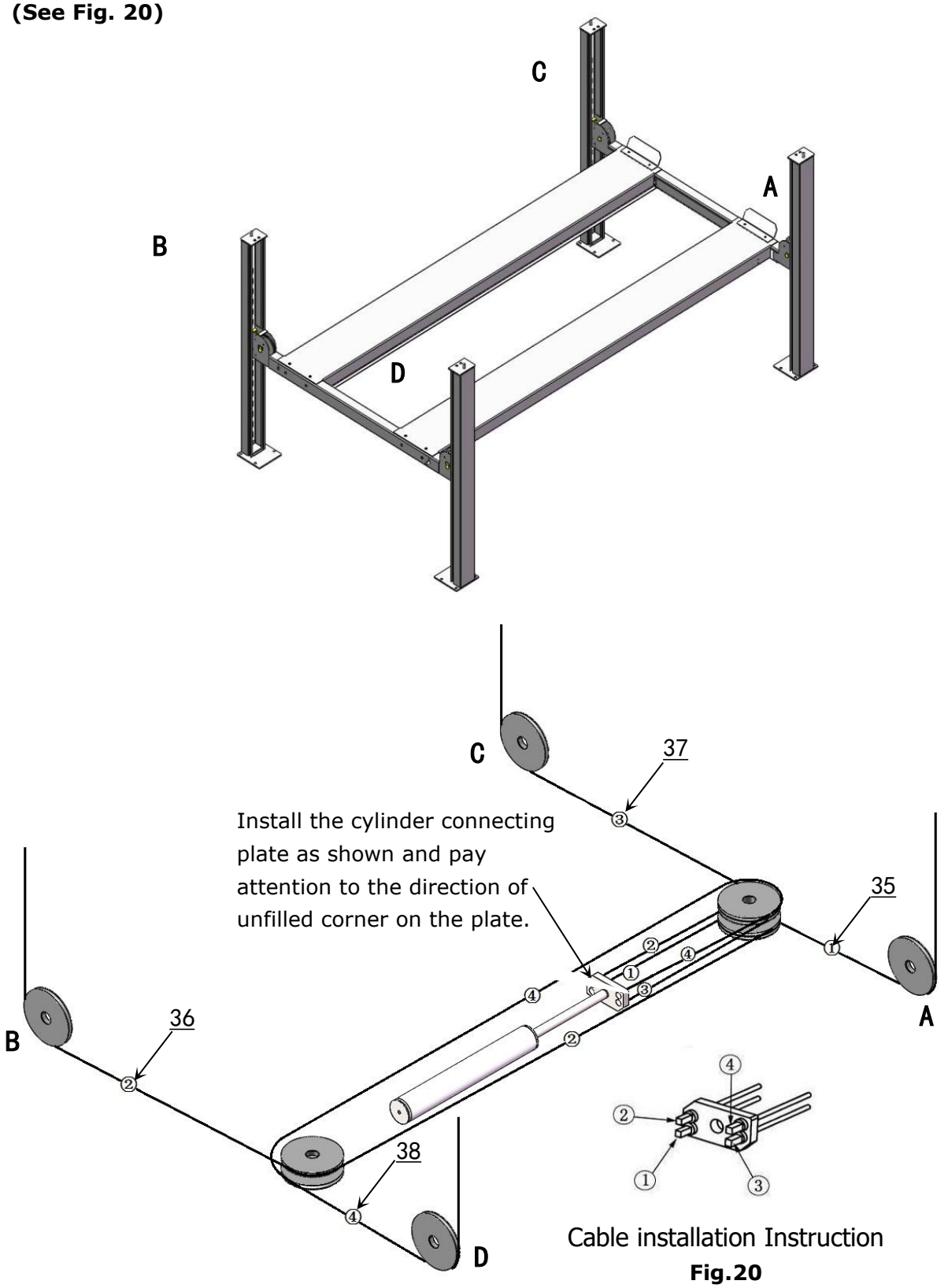
Note: DO NOT completely tighten the limit slide blocks. Loosen 1/4 lap after tightening.

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

NO. / Cable	①	②	③	④
Length (inc. connecting fitting)	2940mm	8535mm	4350mm	7120mm

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

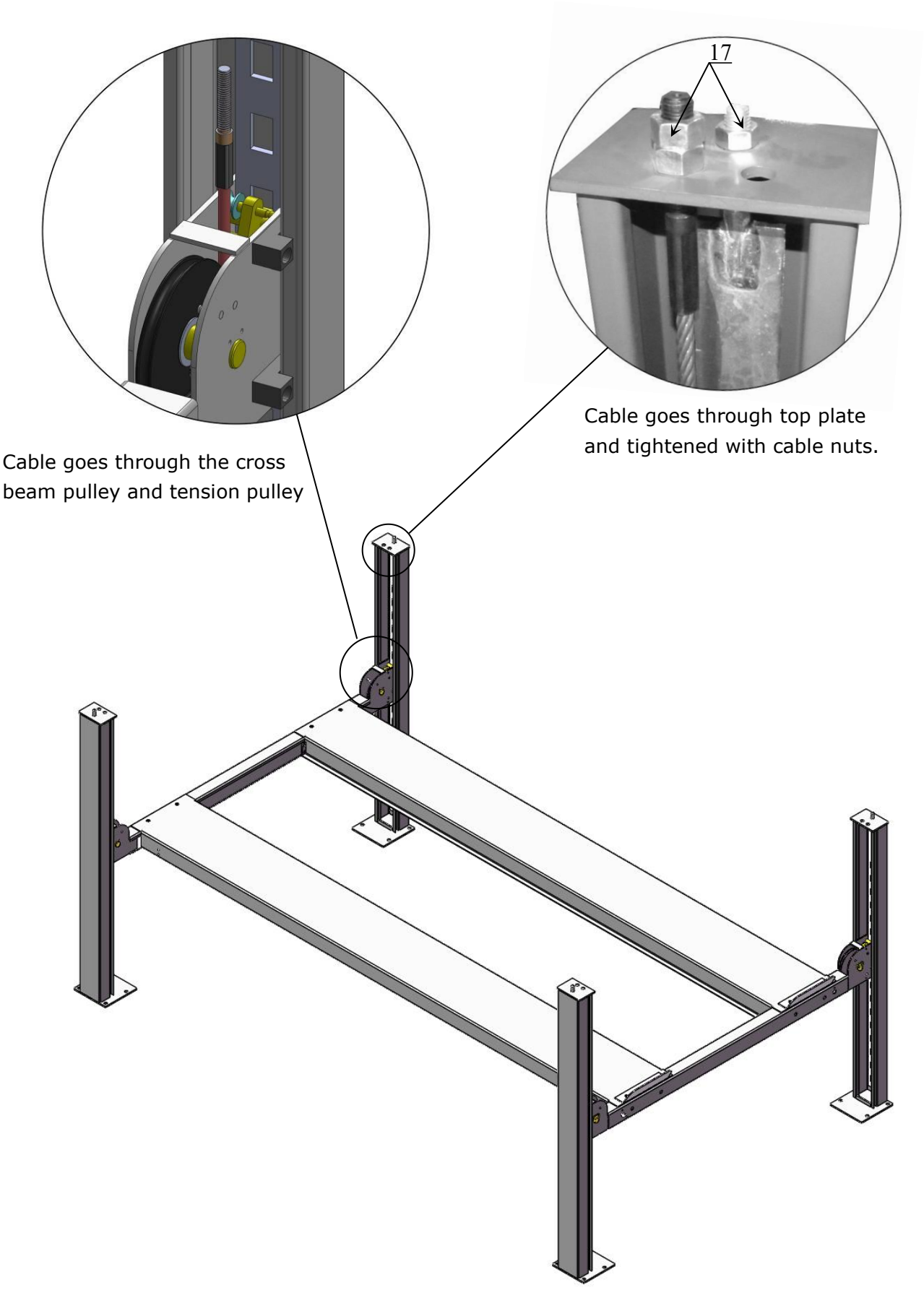


Fig.21

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

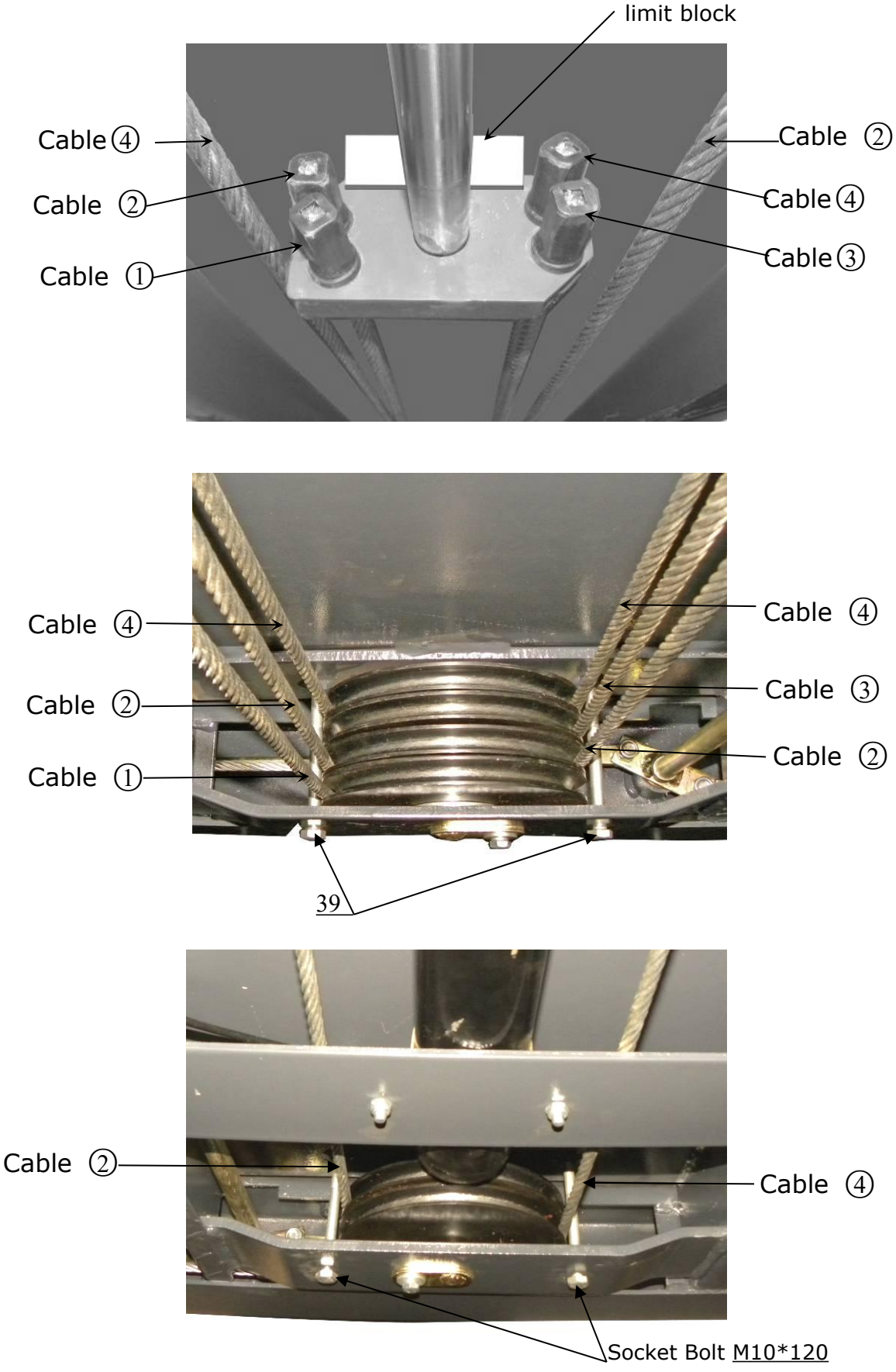


Fig.22

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

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

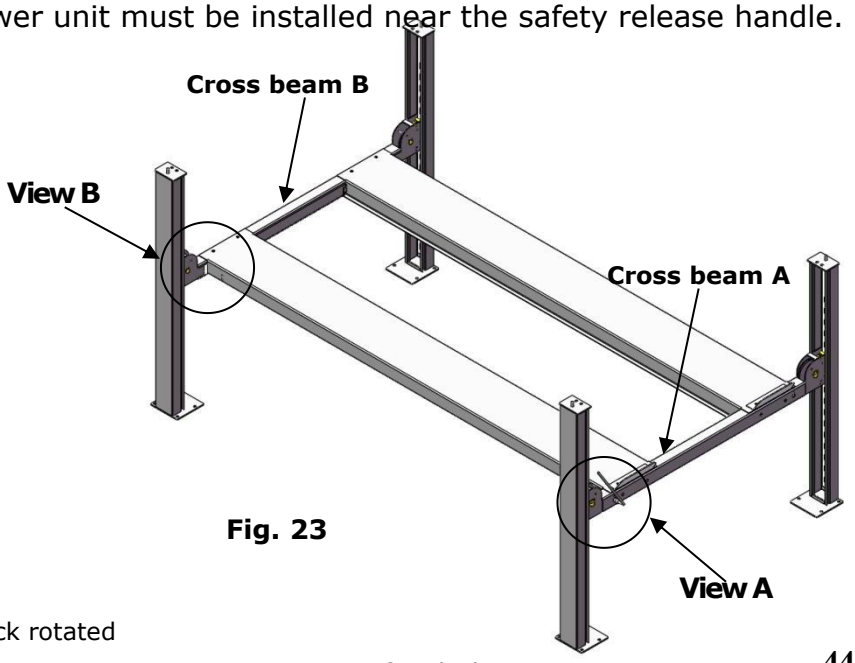
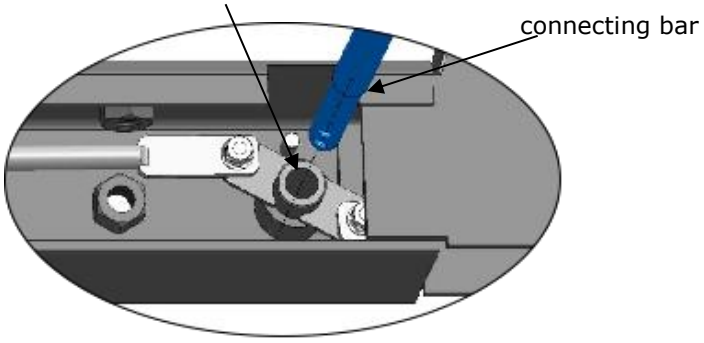
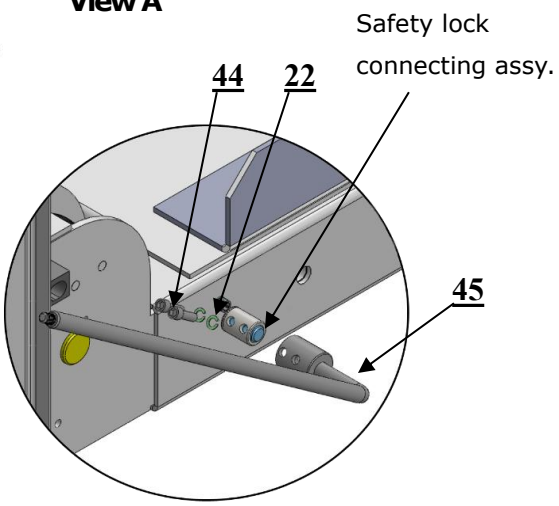


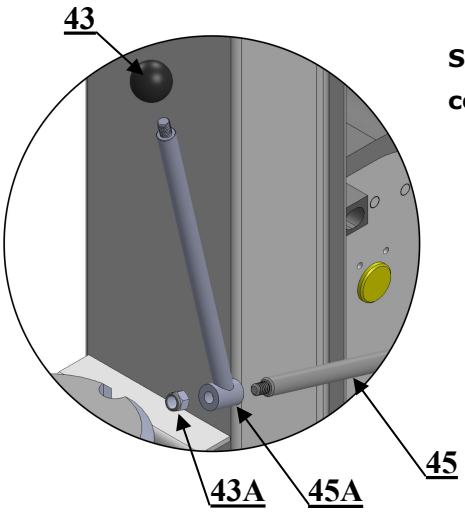
Fig. 23



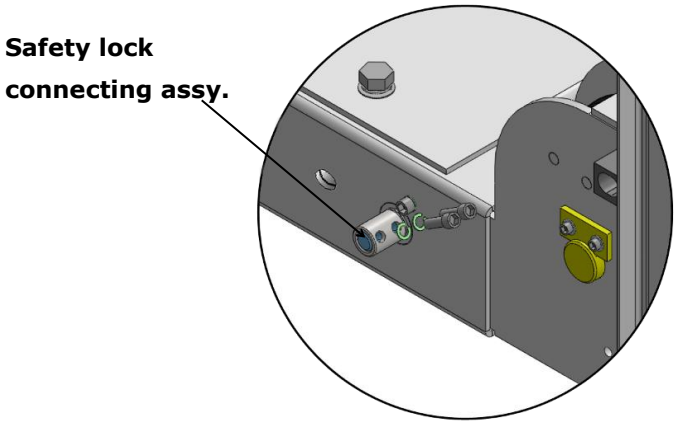
Pass through the connecting bar from the safety lock rotated device of cross beam A/B



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**

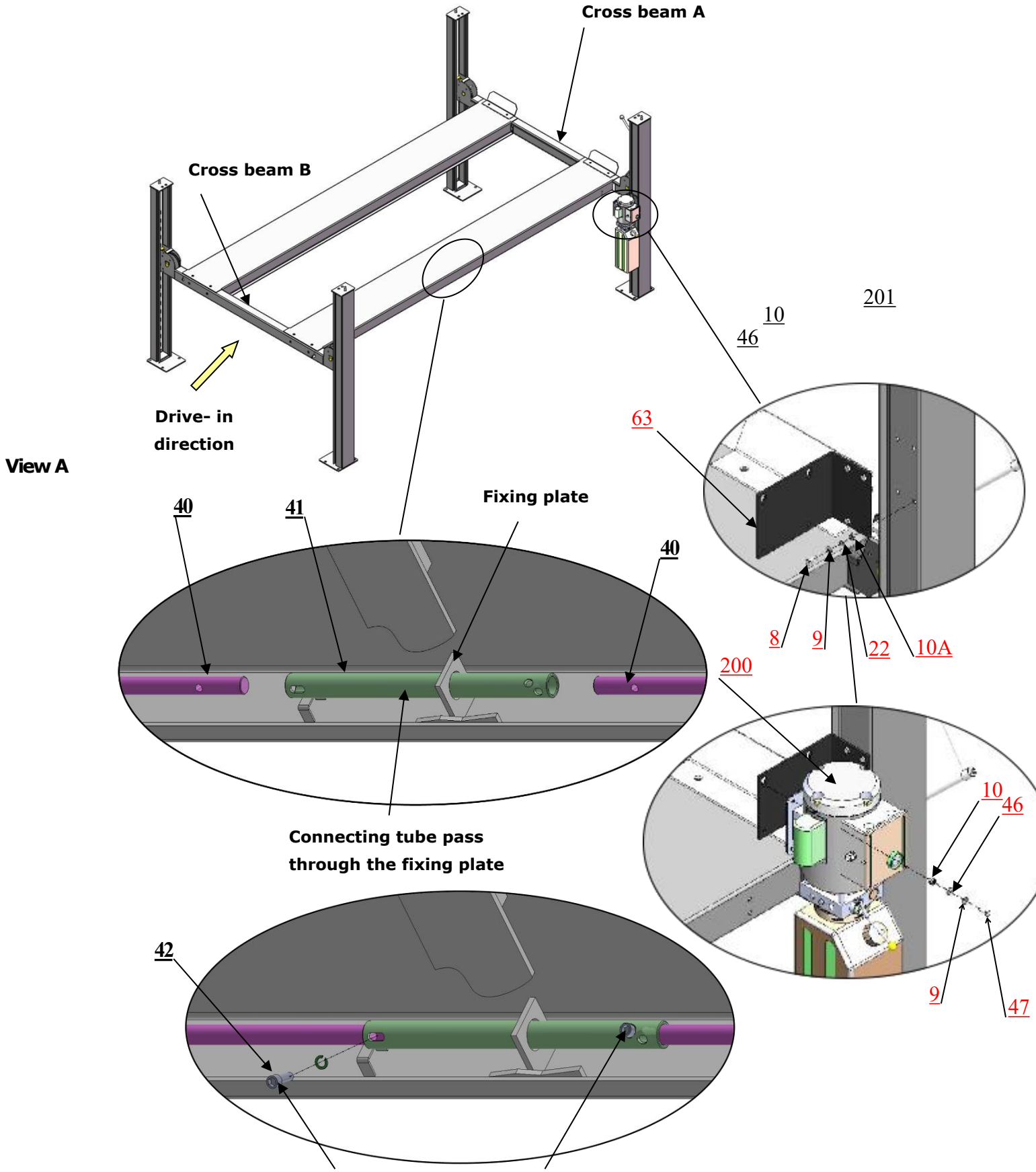
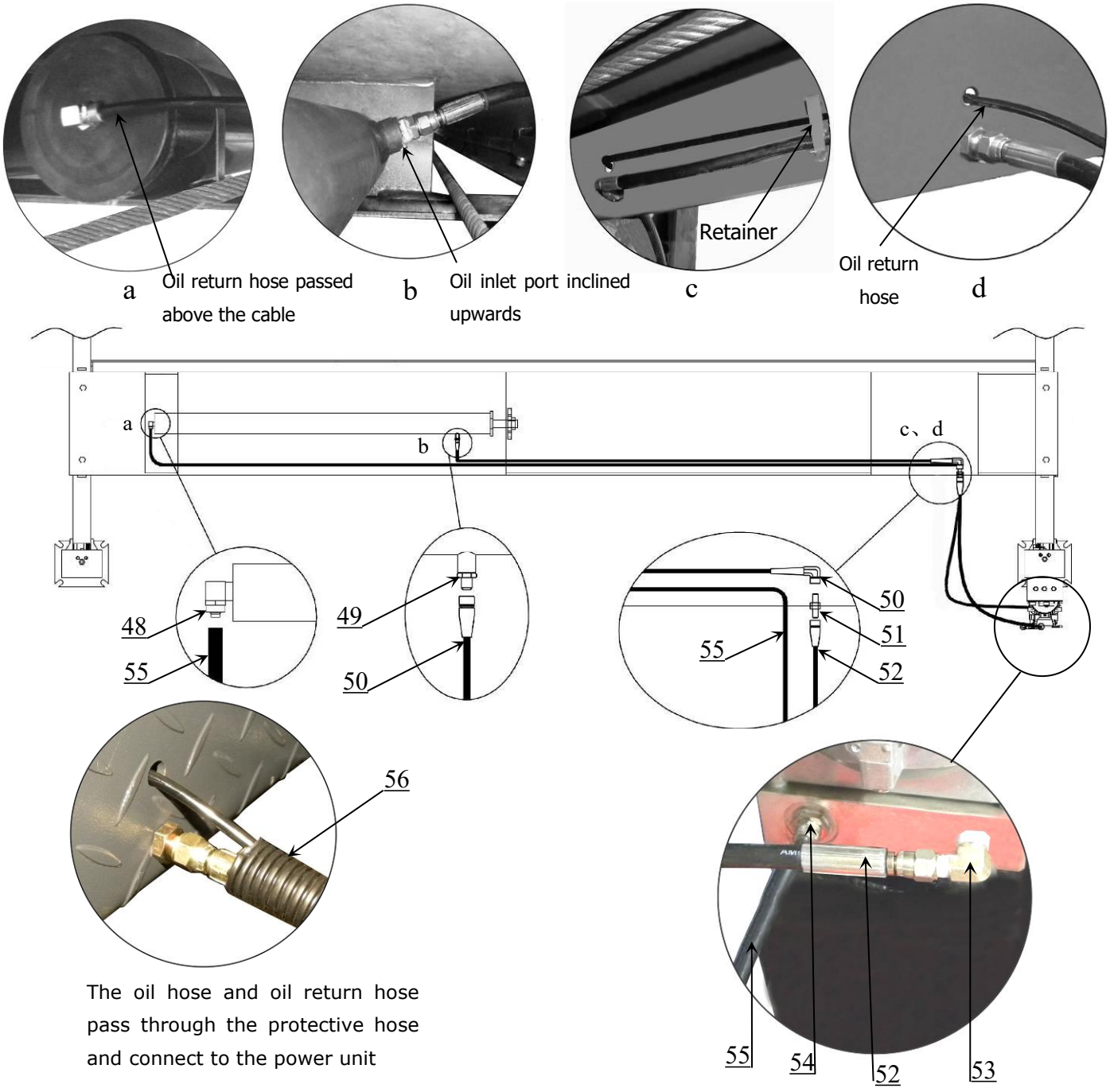


Fig. 24

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.

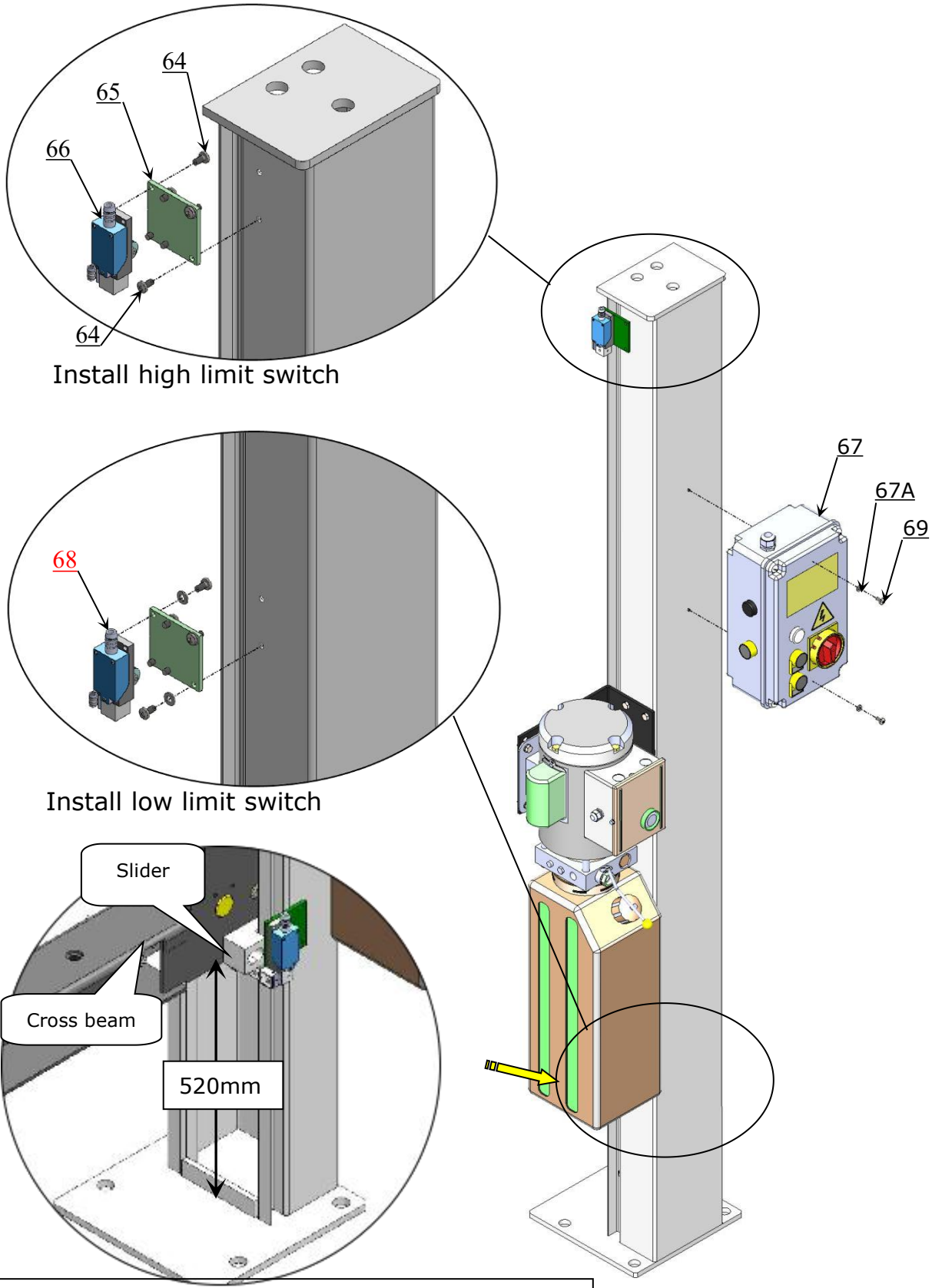


The oil hose and oil return hose pass through the protective hose and connect to the power unit

Fig.25

Fig.27

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

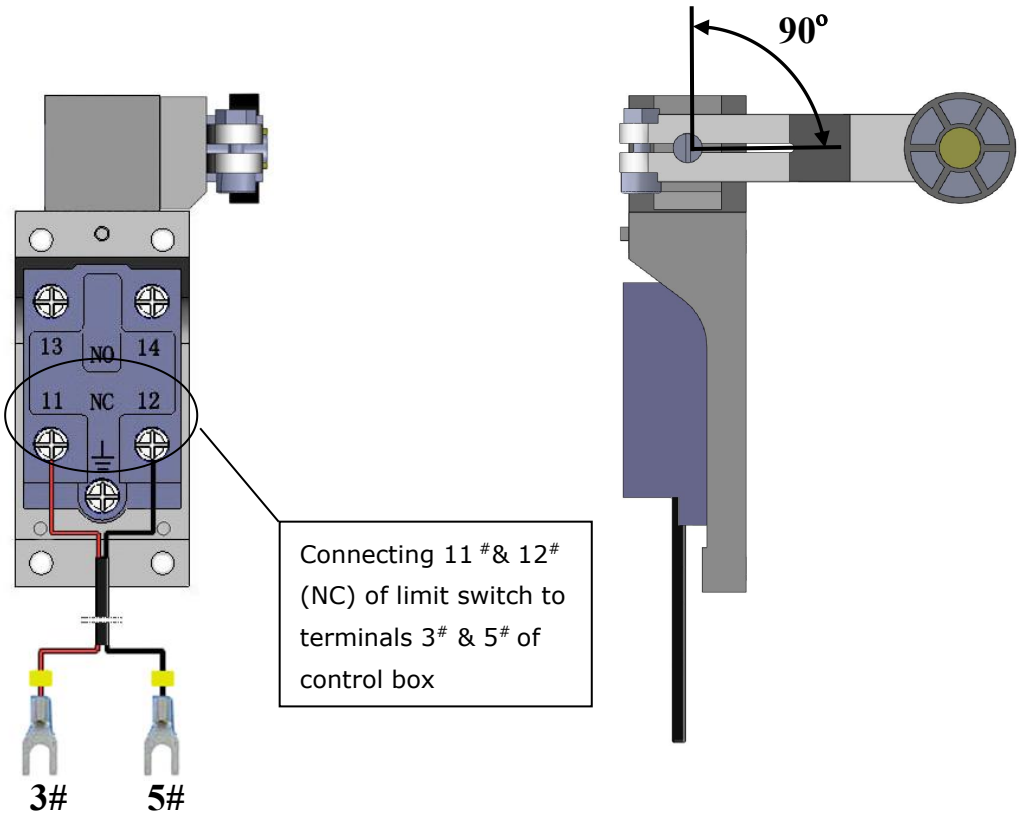


Note: When the cross beam goes to highest place, the cross beam slide block touched the high limit switch drive bar and the lift stop rising. When the cross beam lower to 520mm from ground, the cross beam slide block touched the low limit switch drive bar and the lift stop lowering.

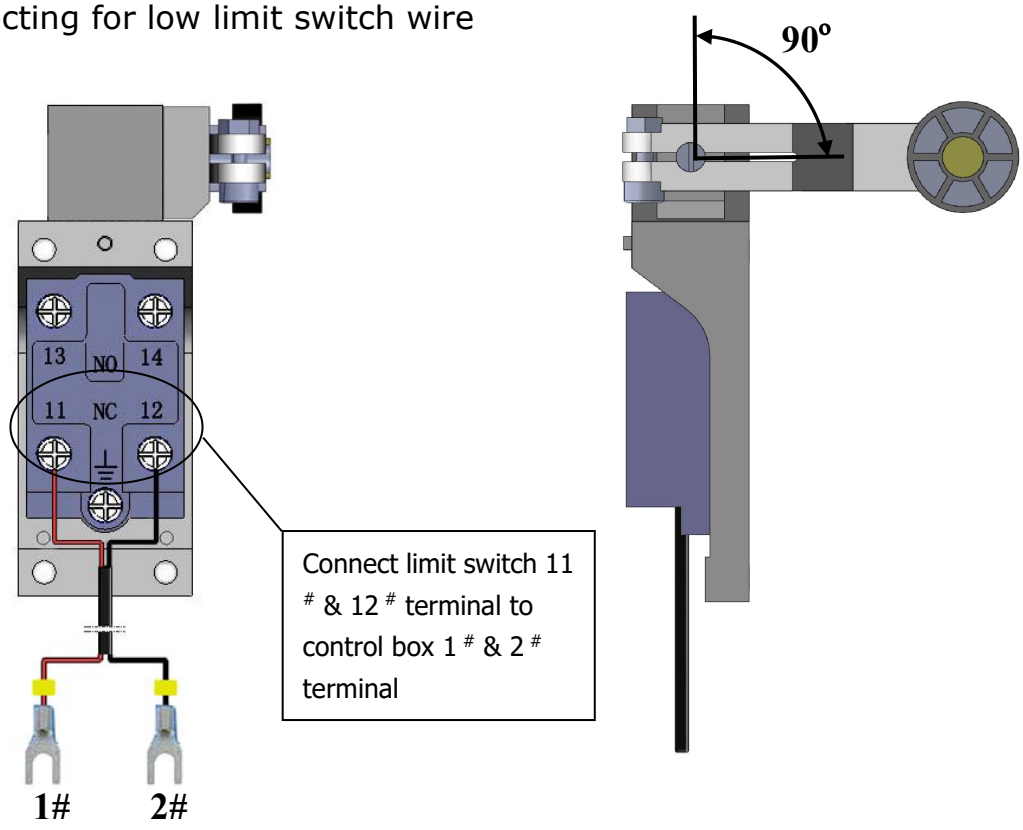
Fig.26

Instruction of limit switch wire connecting

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.

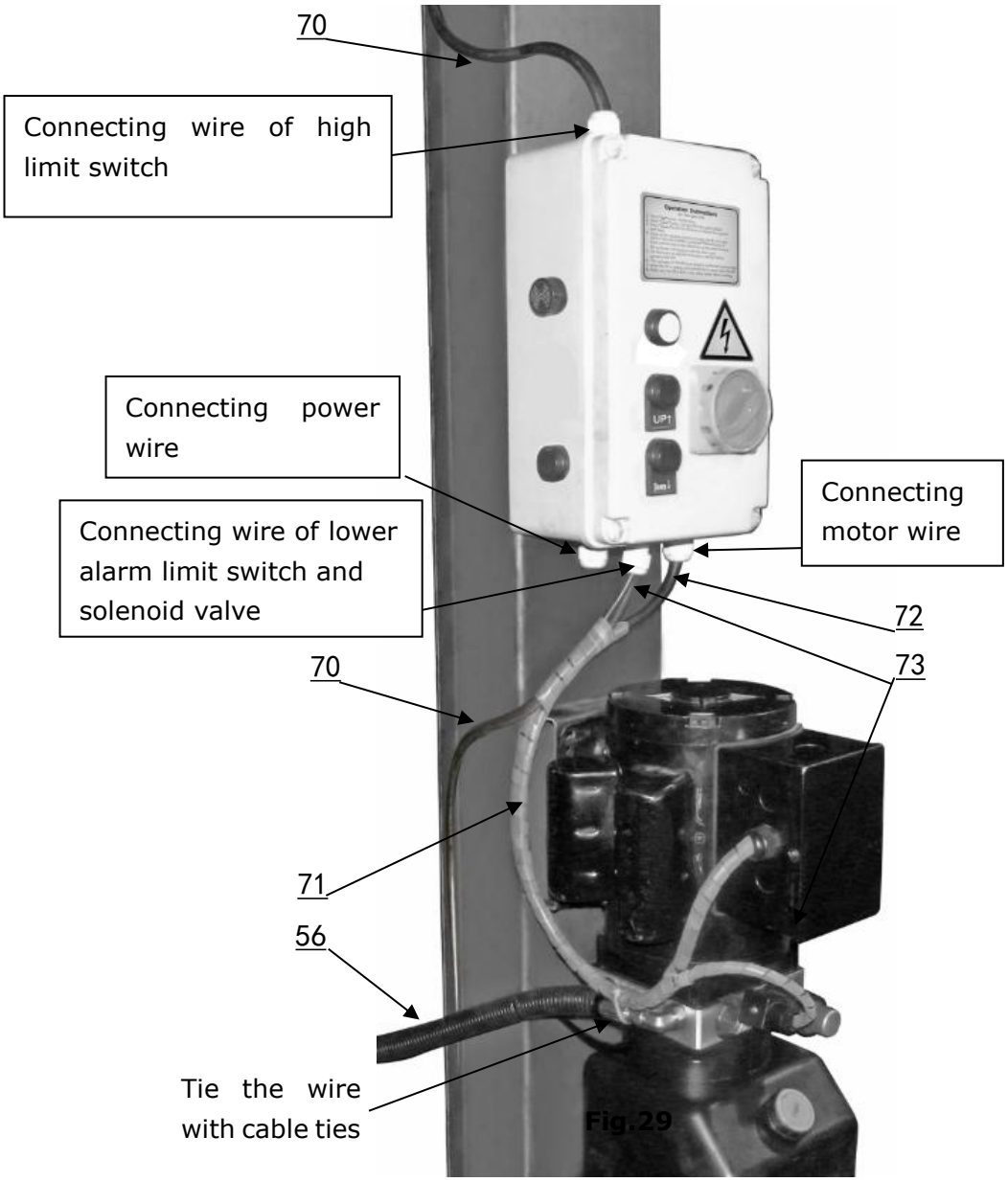


Fig.27

2. 380V Wire connection and circuit diagram

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

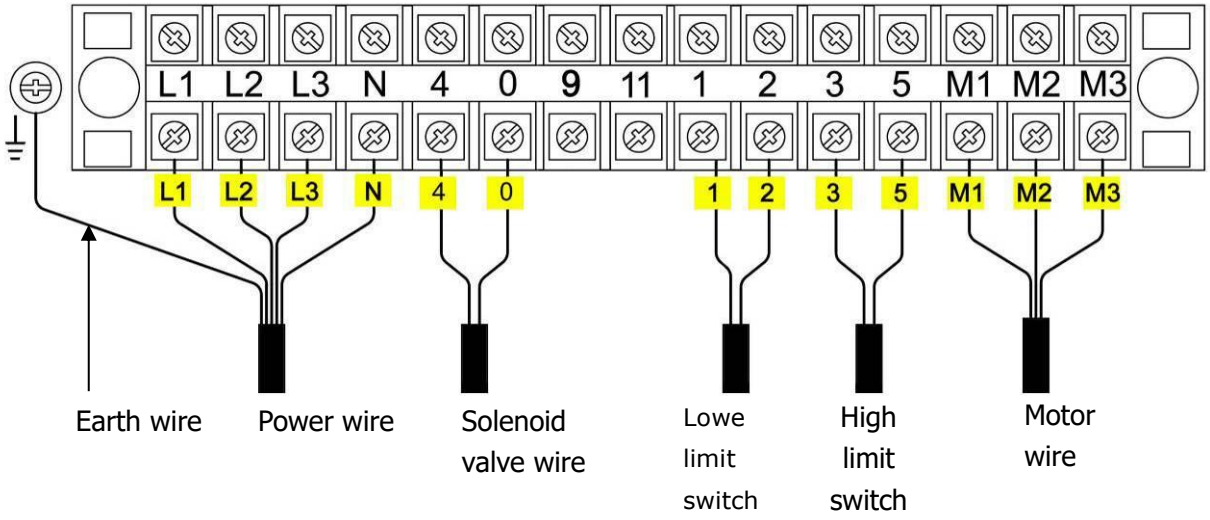


Fig.28

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.

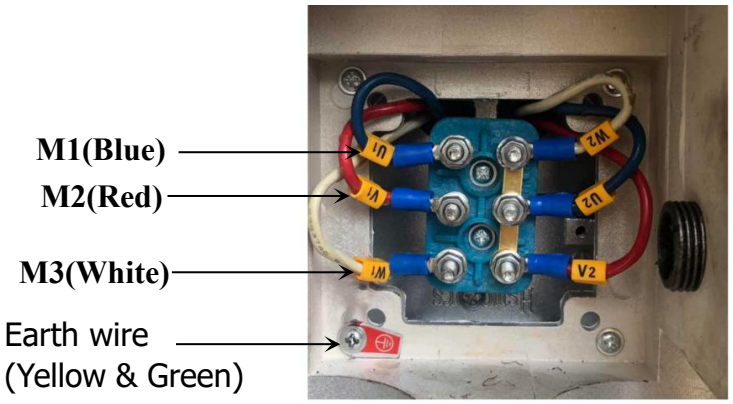


Fig.29

2.3 380V Circuit diagram (See Fig. 32)

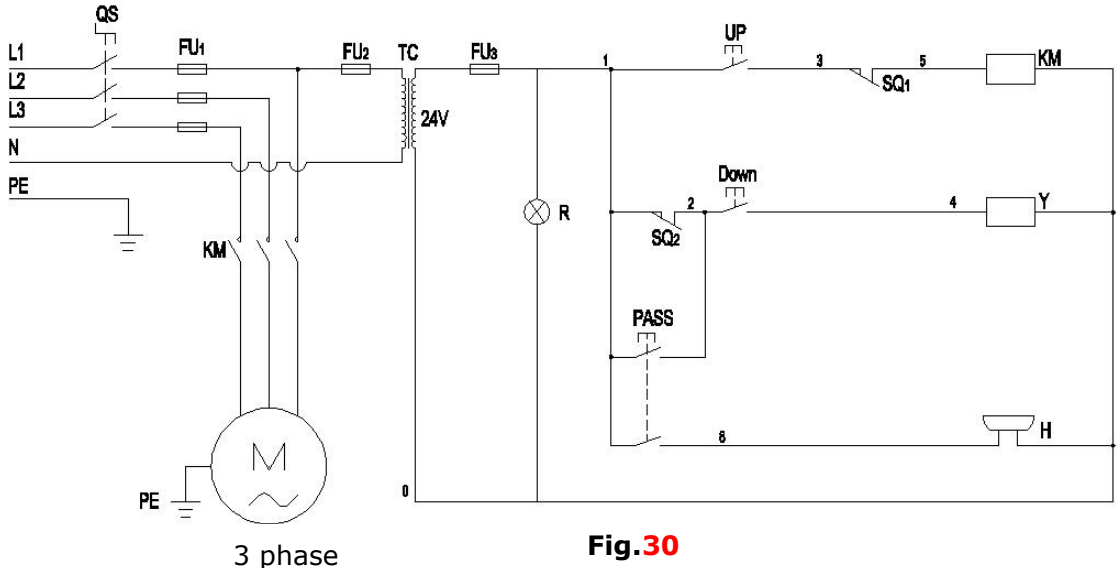


Fig.30

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	3P		10	Motor	M	3 phase
3	Breaker	FU_2	1P		11	Transformer	TC	24V AC
4	Breaker	FU_3	1P		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**)

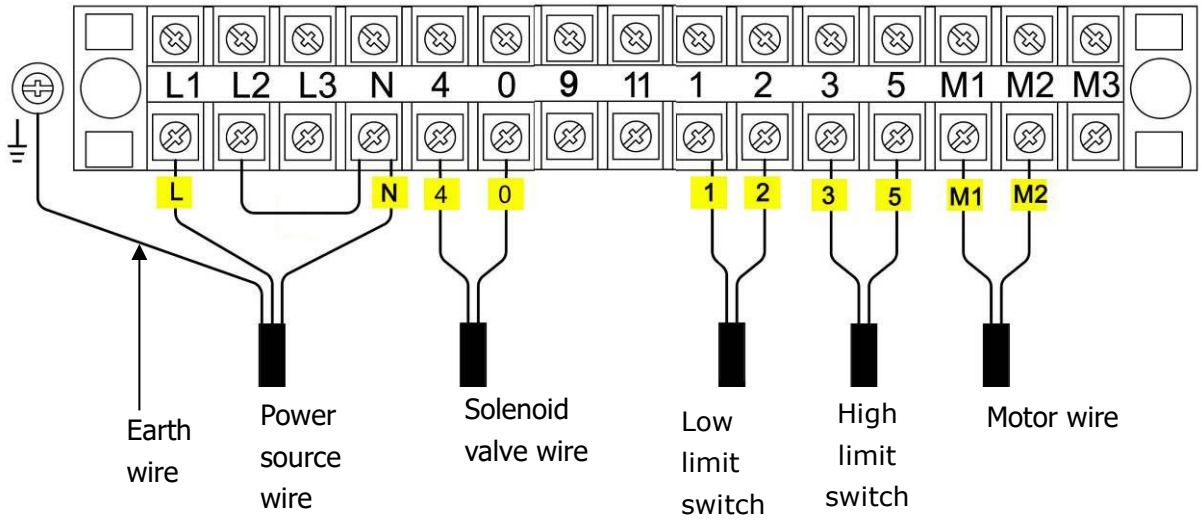


Fig.31

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.

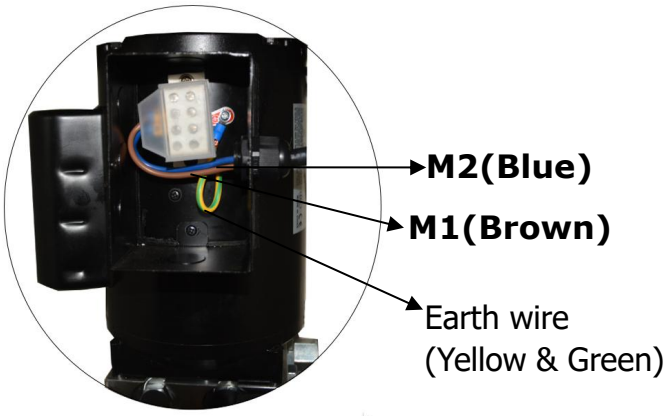
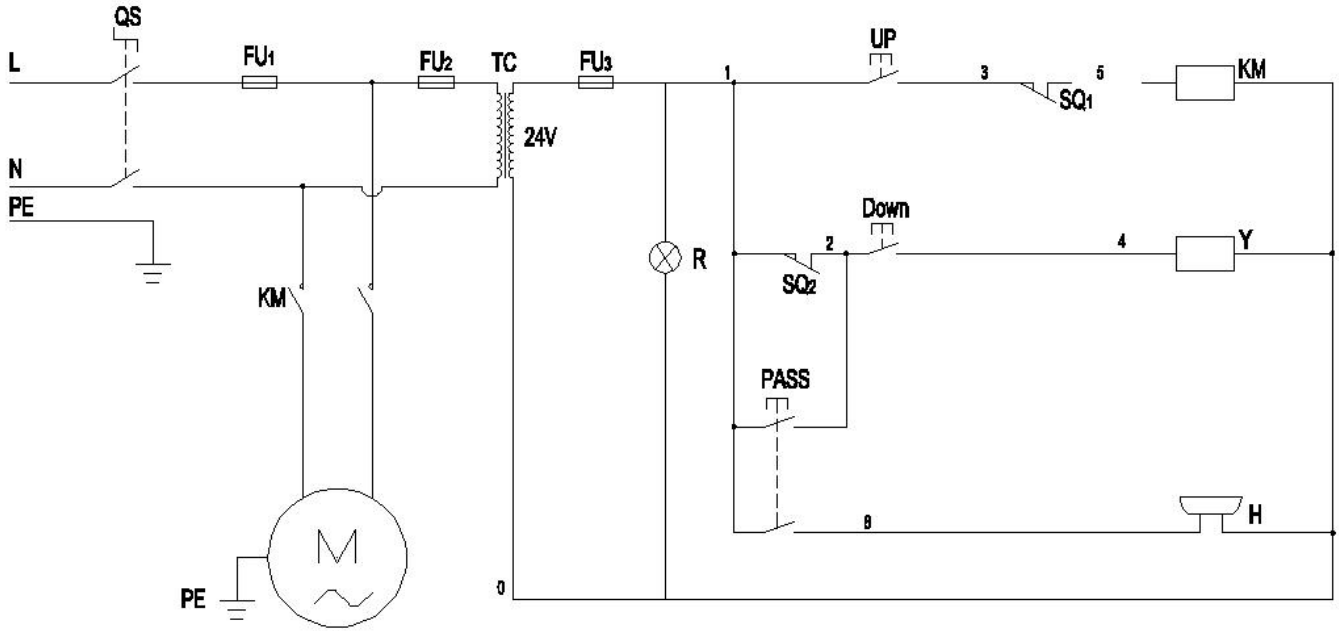


Fig.32

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	2P		10	Motor	M	3 phase
3	Breaker	FU_2	1P		11	Transformer	TC	24V AC
4	Breaker	FU_3	1P		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).

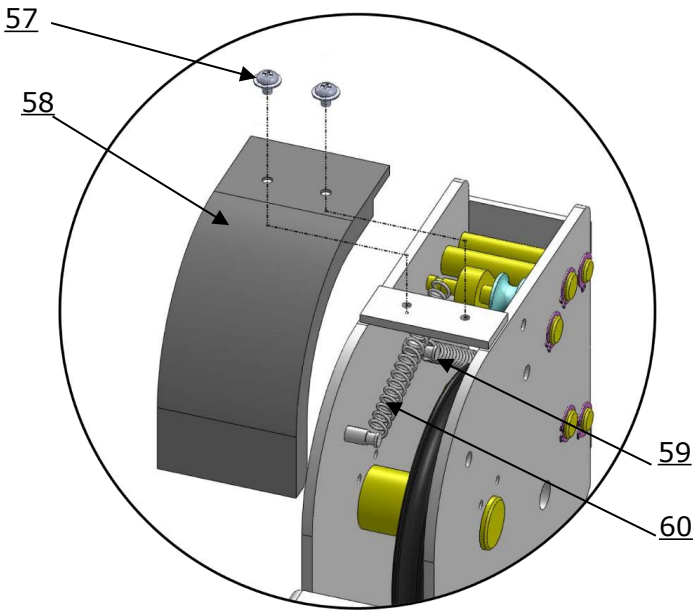
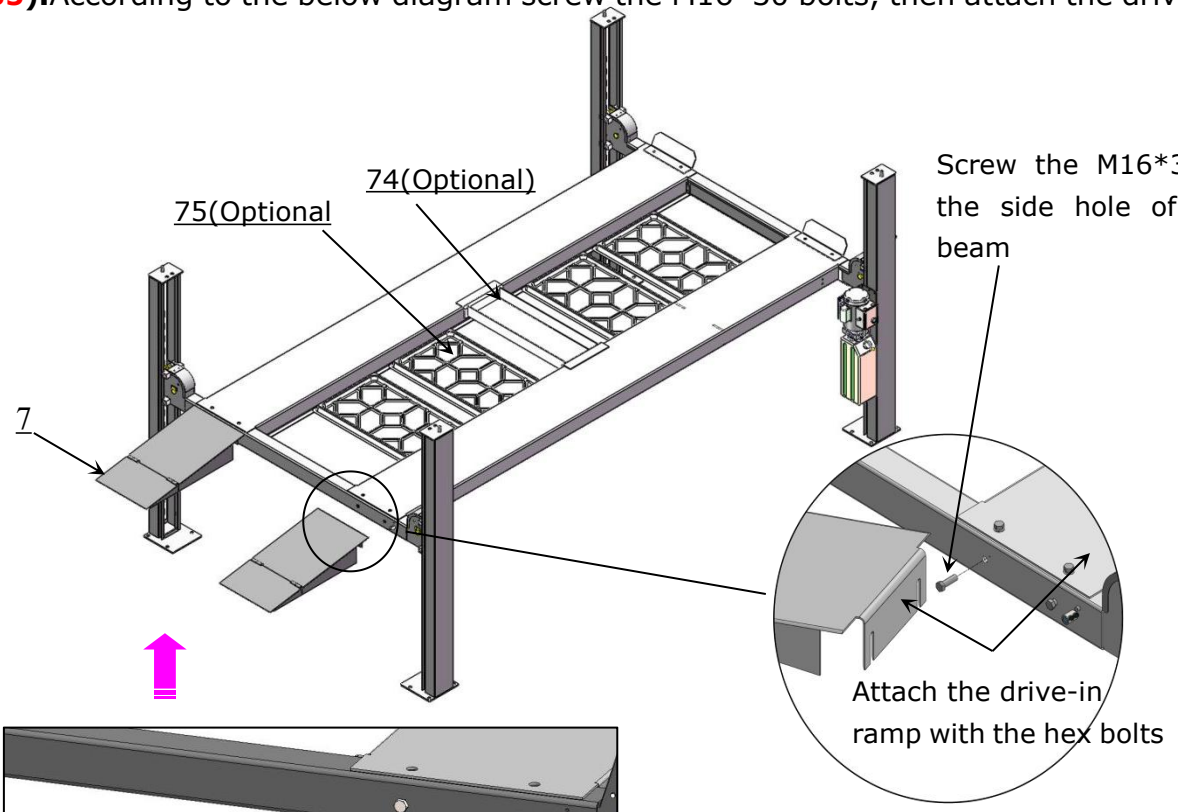


Fig.34

O. Install drive-in ramp, optional jack tray and optional plastic oil pans (See Fig. 35). According to the below diagram screw the M16*30 bolts, then attach the drive-in ramp.



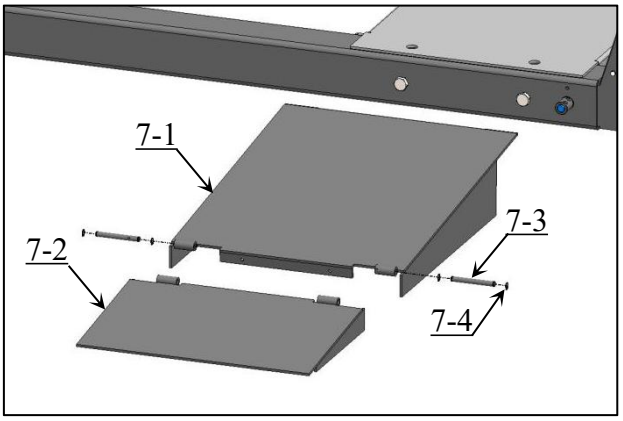


Fig.35

Part List

Item	Part#	Description	QTY
7-1	1104533025A	Drive-in ramp part 1	2
7-2	1104533026A	Drive-in ramp part 2	2
7-3	1104543021	Drive-in ramp Connecting pin	4
7-4	10209010	φ10 Shaft Snap Ring	8

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

After driving the vehicle on the lift, fold the front of the drive-in ramp board up.

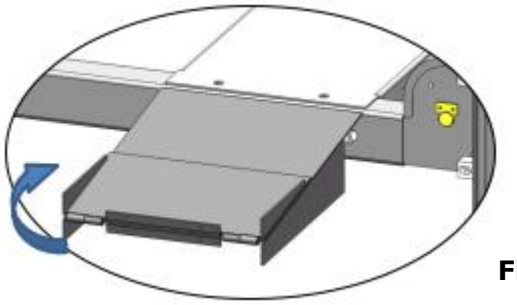


Fig.36

Q. For optional kits installation.

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

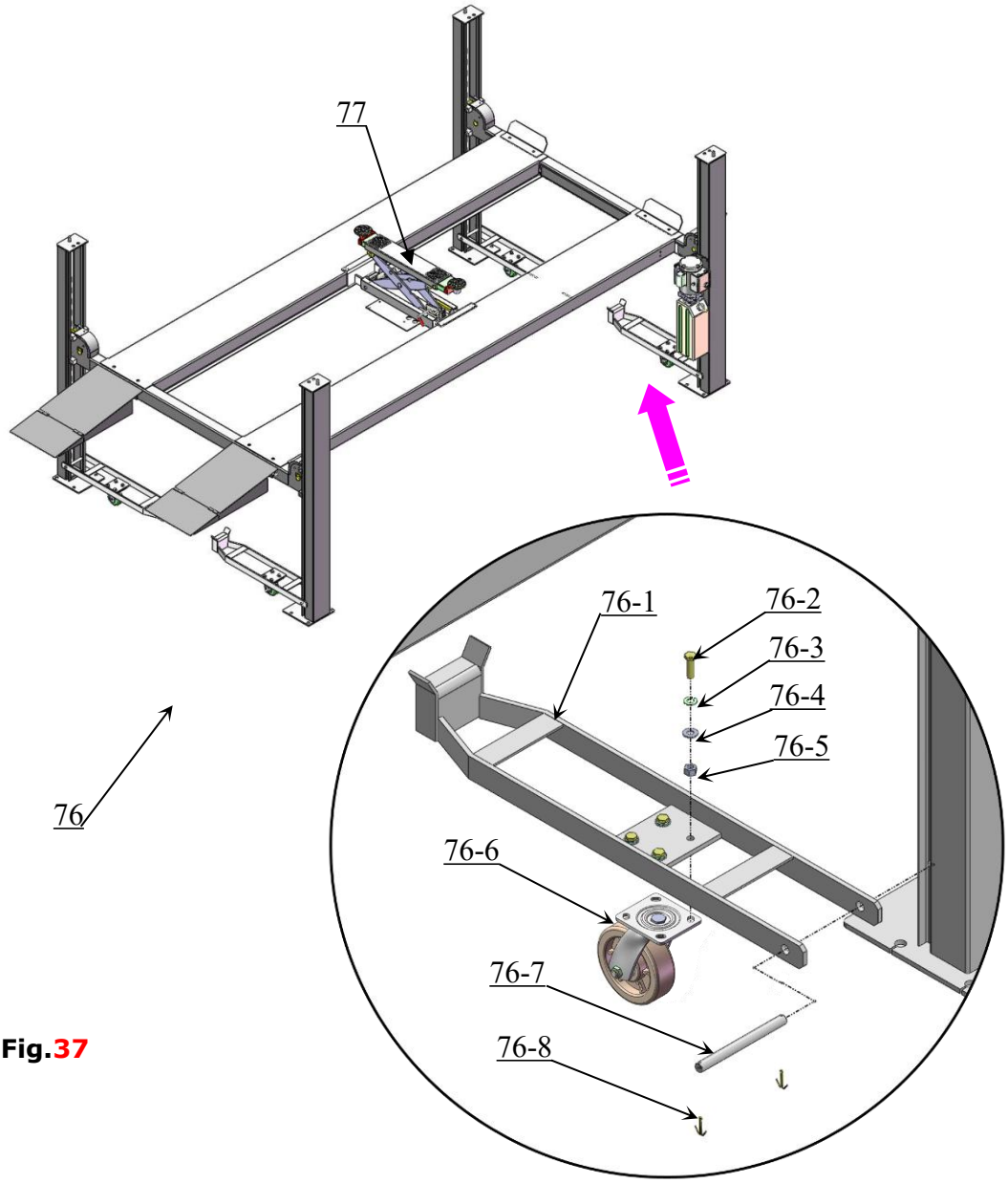


Fig.37

Past list

Item	Part#	Description	QTY.	Note
76-1	11410042A	Caster kits	4	
76-2	10209125	Hex bolt	16	
76-3	10209039	Lock washer	16	
76-4	10209022	Washer	16	
76-5	10209021	Lock washer	16	
76-6	10410035	Universal wheel	4	
76-7	10410034	Connecting pin	4	
76-8	10209012	Spring pin	8	

R. Fix the anchor bolts

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

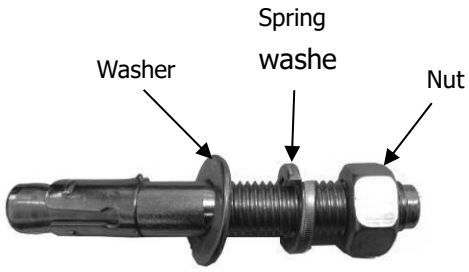


Fig.38

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)**

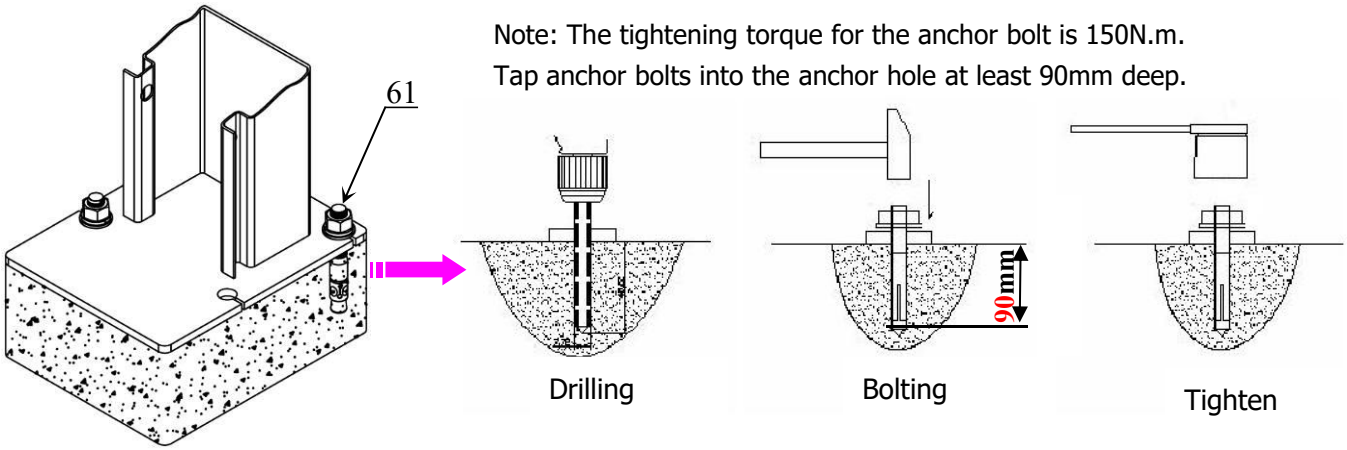


Fig.39

IV. EXPLODED VIEW

Model: A435-P

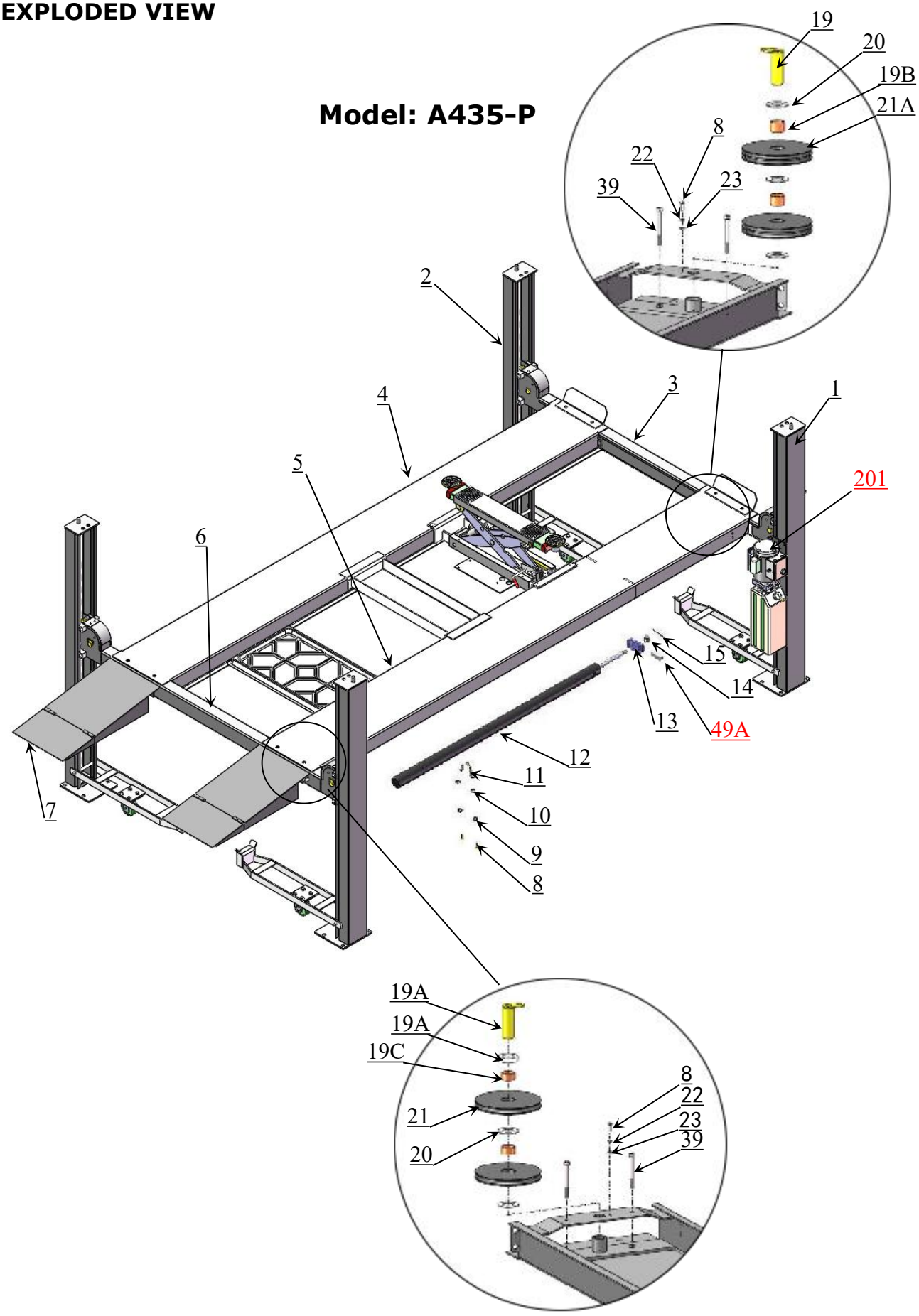


Fig.40

PARTS LIST FOR MODEL A435-P

Item	Part#	Description	QTY.	Note
1	11410110	Power-side Column	1	
2	11410002	Offside Column	3	
3	11410003	Cross Beam **A**	1	
4	11410004	Offside Platform	1	
5	11410005	Power-side Platform	1	
6	11410006	Cross Beam **B**	1	
7	1104533025C	Folding ramp assy.	2	
8	10209043	Hex Bolt M8*20	8	
9	10209033	Washer φ8	36	
10	10209005	Self locking Nut M8	28	
10A	10217002	Hex Nut M8	4	
11	11410008	Cylinder fixed ring	1	
12	10410009	Cylinder	1	
13	11410642	Cable connecting plate	1	
14	10410012	Hex Nut M24	1	
15	10201005	Split Pin φ4*50	1	
200	81523021	Electric power unit	1	
17	10420175A	Hex nut M20	16	
18	11410022	Safety ladder	4	
19	11420022A	Pulley pin	2	
19A	11410106	Cushion cover φ60*12*13	1	
19B	10530042	Bronze Bush φ41.3*φ35.1*28	2	
19C	10420132A	Bronze Bush φ41.3*φ35.1*20	2	
20	10420023A	Washer	13	
21	11420024B	Pulley	6	
21A	1104533023	Pulley (Dual groove)	2	
22	10209034	Lock washer	4	
23	10420144	Washer φ8	2	
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	8	
30	10420026	Lock washer φ12	8	
31	10410105	Hex Bolt M12*20	8	
32	10410016A	Slider 81*38*38	16	
33	10410017	Socket bolt M8*4	16	
34	10620065/10201090	Shim(1mm, 2mm)	20/20	
35	10410019	Cable ①	1	
36	10410020	Cable ②	1	
37	10410018	Cable ③	1	
38	10410021	Cable ④	1	
39	10600015	Socket Bolt M1*120	4	

Item	Part#	Description	QTY.	Note
40	11410023	Connecting bar for safety device Φ 19*2060mm	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	
45	11410026	Safety release handle	1	
45A	11410100	Extension lock release handle assy	1	
46	10209004	Rubber ring Φ8*Φ20*3	4	
47	10209003	Hex Bolt M8*25	8	
48	10420166	90^0 Fitting	1	
49	10420119	Straight Fitting for cylinder	1	
49A	10410135	Limit slider	1	
50	10410027	Oil hose L=2000mm	1	
51	10420120	Extend straight fitting with nut	1	
52	1004533007	Oil hose 1/4*1420mm(straight)	1	
53	10209060	90^0 Fitting for power unit	1	
54	10420095	Straight fitting	1	
55	10410028	Oil return hose	1	
56	1004533008	Protective hose Φ20*1*1400mm	1	
57	10209145A	Cup head bolt with washer M6*12	8	
58	10410029	Plastic cover for cross beam	4	
59	10410146	Spring Φ14*2.0*75	4	
60	10420033	Spring Φ14*1.8*100	4	
61	10209059	Anchor bolt 3/4*5-1/2	8	
62	10410503	Parts box	1	
63	1104551003	Motor fixing plat	1	
64	10206011	Cup Head Bolt M5*12	12	
65	11420010A	Fixing Plate For Limit Switch	2	
66	10206013	Limit Switch	2	
67	10410178	Control box (Single phase)	1	
68	10420045	Washer Φ6	2	
69	10209145	Cup head bolt M6×12	2	
70	10410108	Wire of Limit switch $2*1^2*1200$mm	2	
71	10420168	White strap Φ10×2000mm	1	
72	10217135	Motor wire $4*2.5^2*900$mm	1	
73	10410107	Solenoid valve wire $2*1^2*900$mm	1	
Optional kits				
74	11410040	Jack tray	1	
75	10410039	Plastic oil tray	4	
76	1040801	Caster kits	4	
77	96600002	Sliding jack J5H	1	

CROSS BEAM

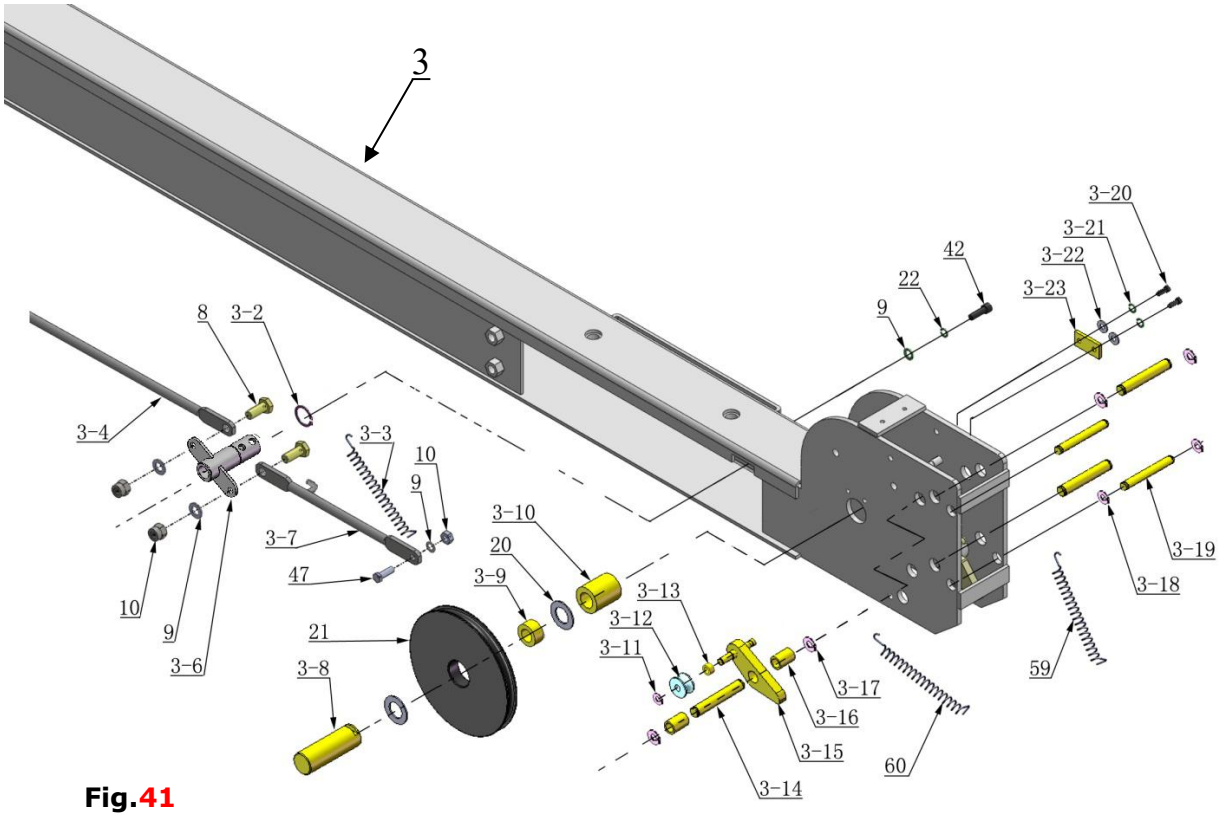


Fig.41

Item	Part#	Description	QTY.	Note
3-2	10206032	Snap ring	2	
3-3	10410099	Spring	2	
3-4	11410031-02	Connecting bar for safety lock	2	
3-6	1104572003A	Safety locks connecting	2	
3-7	11410033-02	Connecting bar for safety lock	2	
3-8	11420041A	Pulley Pin	4	
3-9	10420132A	Pulley Bush	4	
3-10	11420040A	Pulley pin sleeve	4	
3-11	10209010	Snap ring	4	
3-12	10420035	Tension pulley	4	
3-13	11420174	Spacer	4	
3-14	11420171	Pin	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 φ19	24	
3-18	10420037	Snap ring φ16	16	
3-19	11420038	Pin	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	

Control box (Parts No.: 10410178)

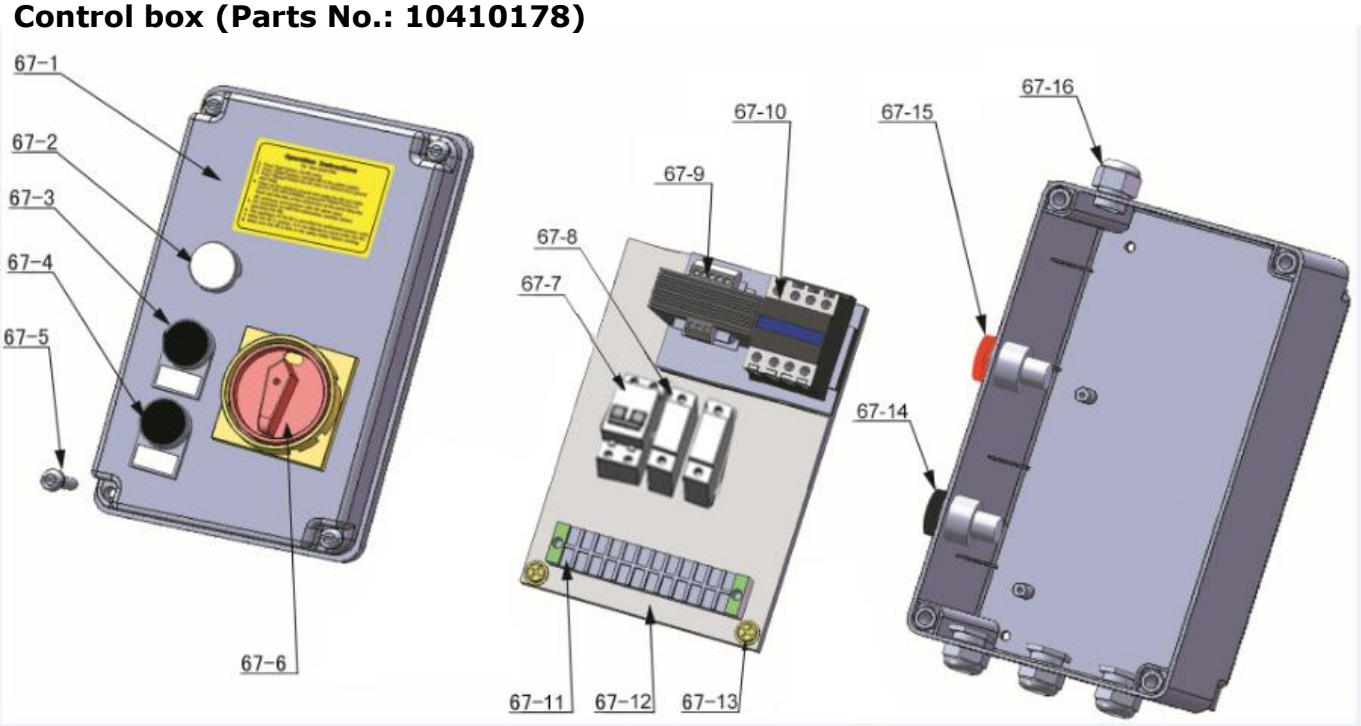


Fig.42

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	41010217	Power Switch (QS1)	1	
67-7	10202046	Breaker 2P	1	
67-8	10202049	Breaker 2P	2	
67-9	10580114	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

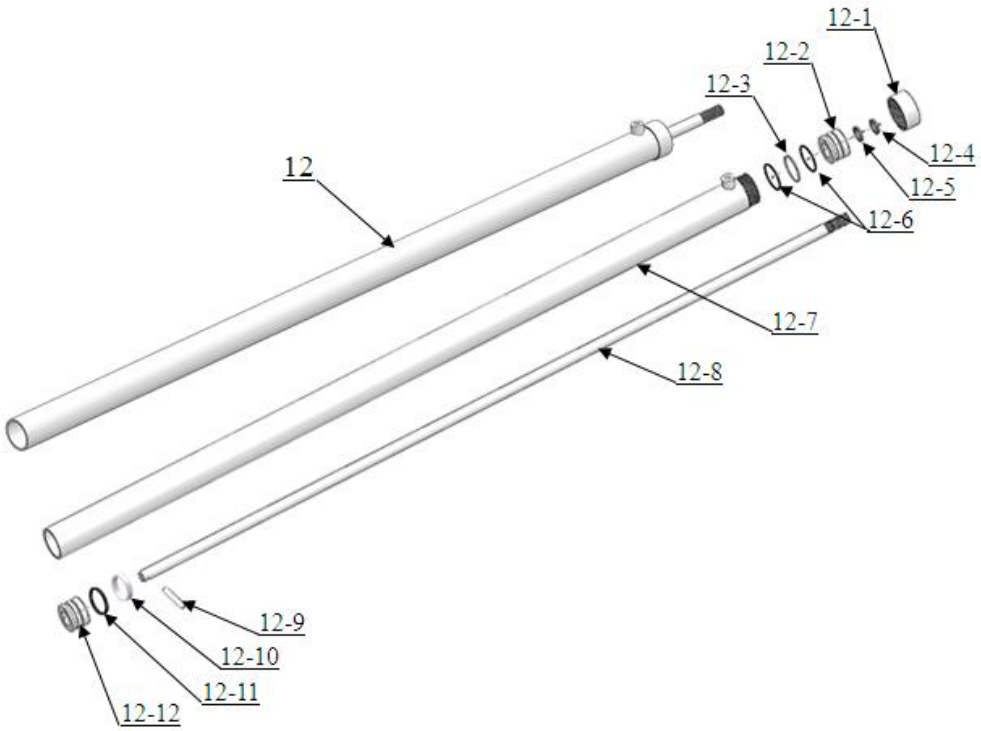


Fig.43

Item	Part#	Description	QTY.	Note
12-1	11410143	Head Cap	1	
12-2	11410144	Head Cap cover	1	
12-3	10410142	Support Ring	1	
12-4	10410080	Dust Ring	1	
12-5	10410104	Y- Ring	1	
12-6	10201031	O- Ring	2	
12-7	11410145	Bore Weldment	1	
12-8	11410047	Piston Rod	1	
12-9	11410049	Pin	1	
12-10	10520052	Support Ring	1	
12-11	10201030	Y- Ring	1	
12-12	11410048	Piston	1	

ELECTRIC POWER UNIT EXPLOSION VIEW (81523021)

220V/50HZ/1Phase

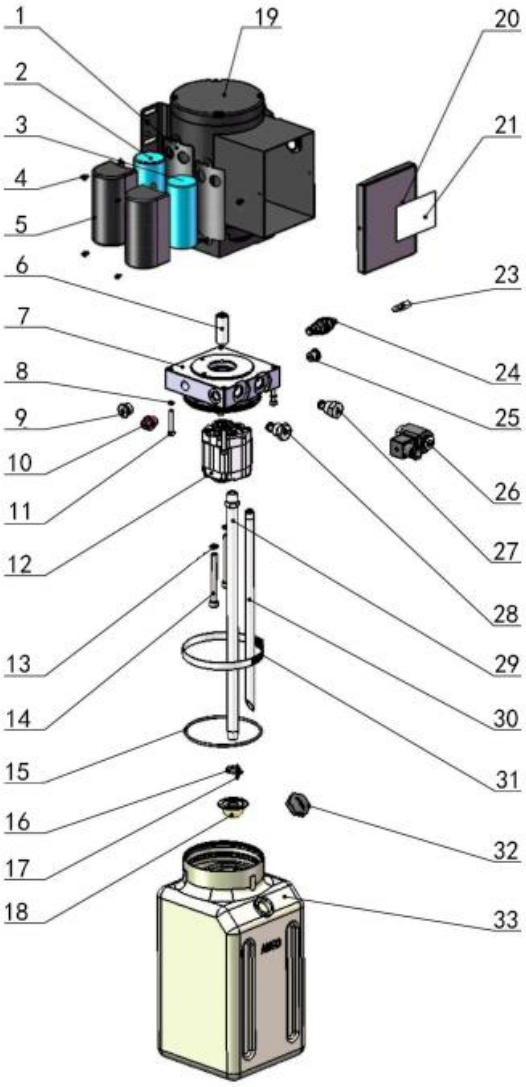


Fig. 44

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	4	
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

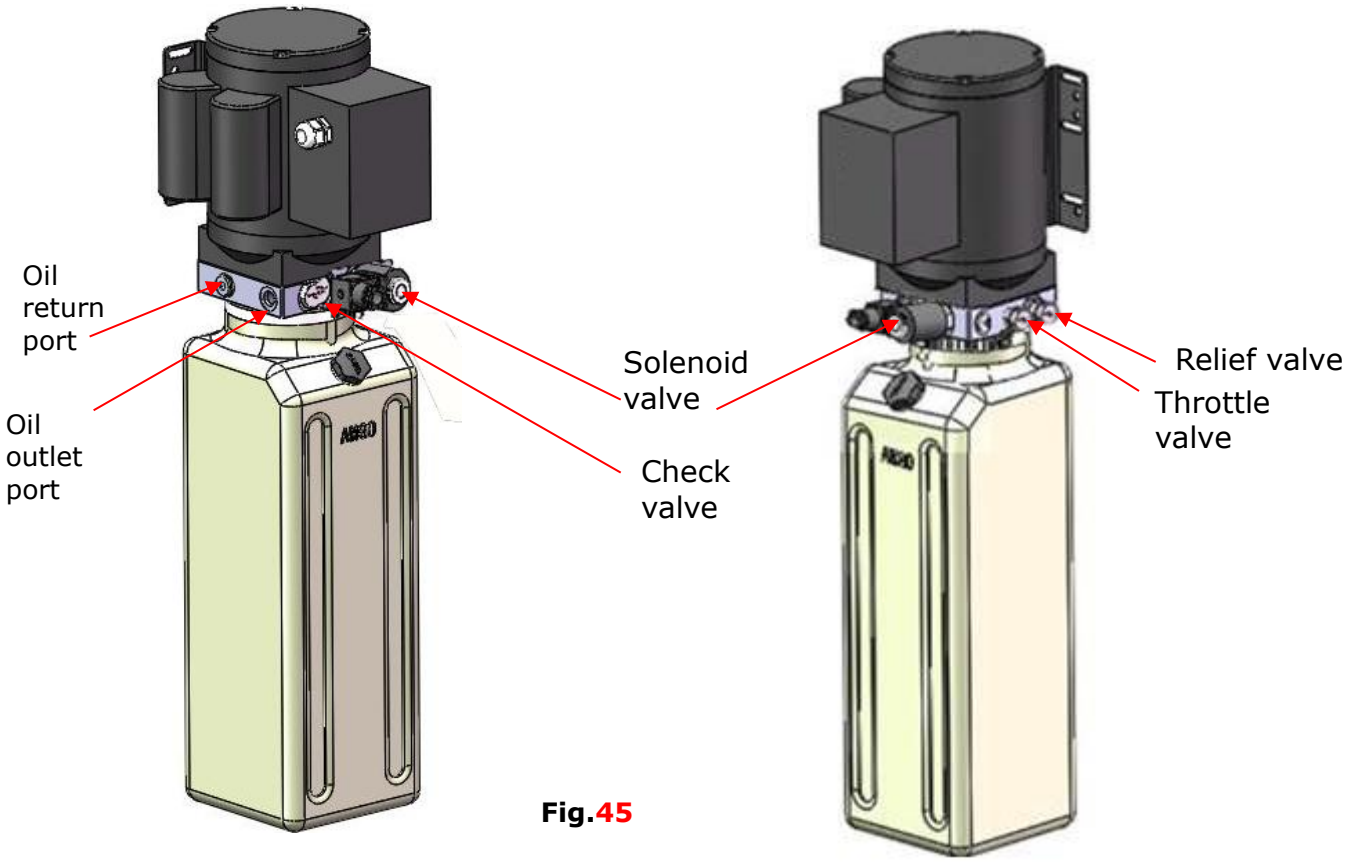
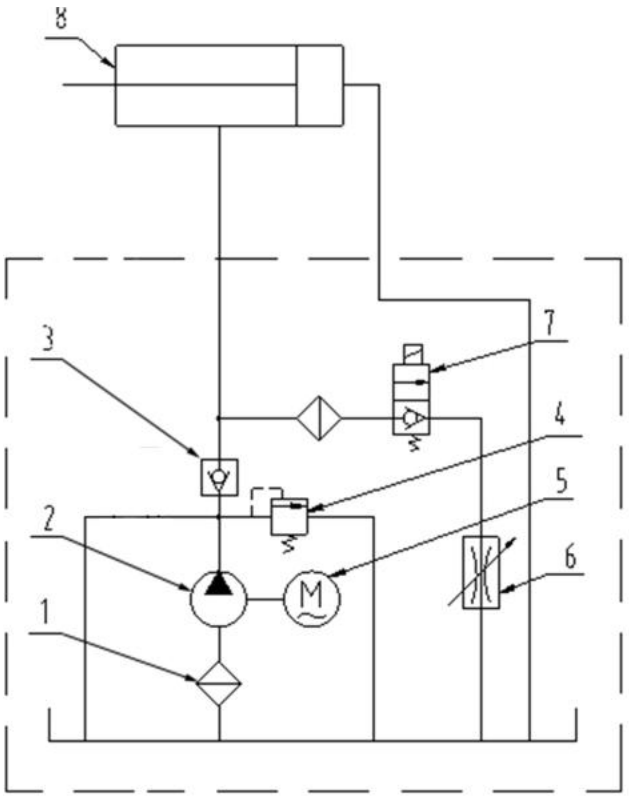


Fig.45

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.50

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.

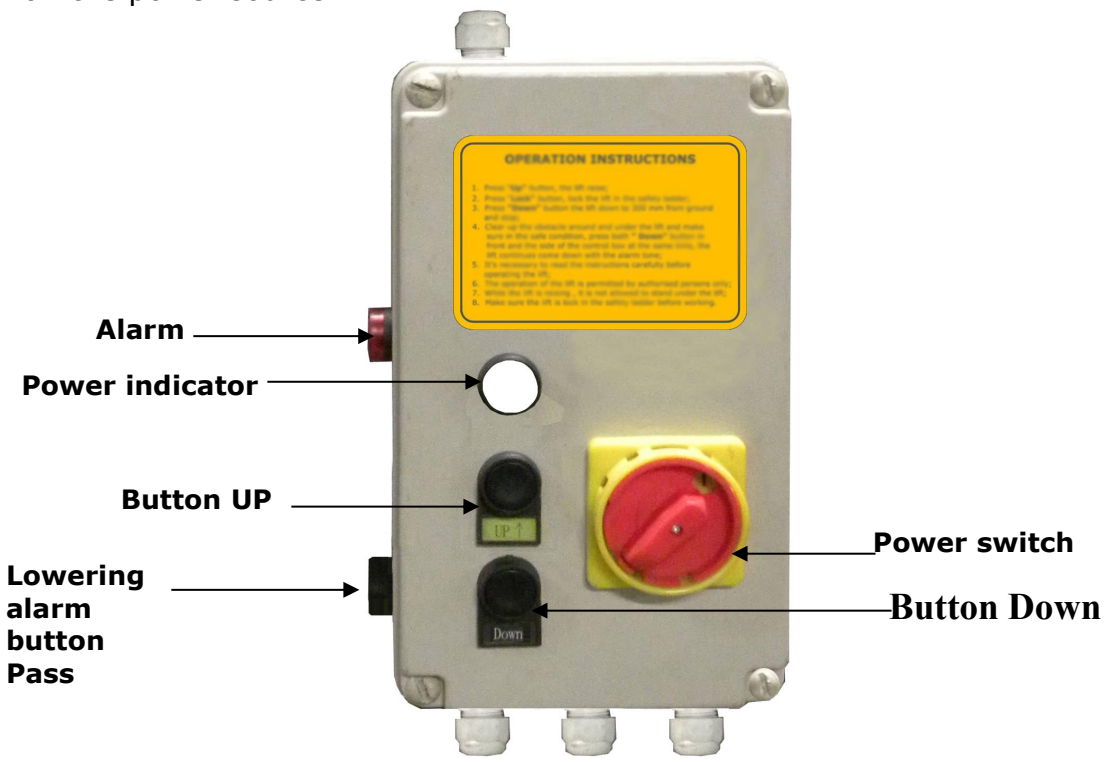


Fig.51

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. 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 mare 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.

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