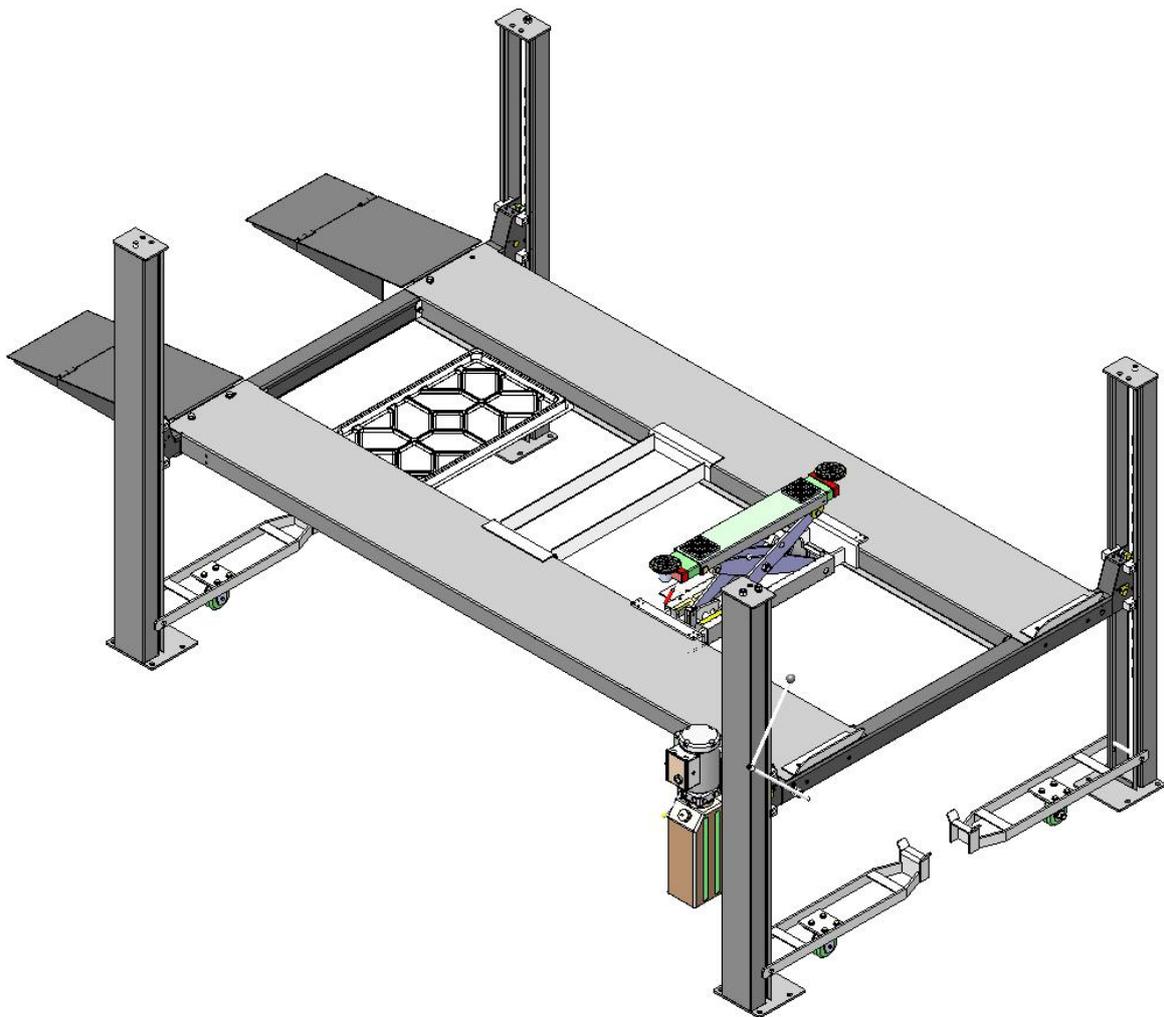


Original

AMGO  [®] **Hydraulics**

Installation And Service Manual



Four Post Parking lift
Model: 407-P

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I. PRODUCT FEATURES AND SPECIFICATIONS

4-POST MODEL 407-P FEATURES

- Single cylinder drive, Cable drive.
- Single point manual safety release.
 - The primary safety device of automatic machinery and the secondary safety device of cable breaking in the process of rising ensure the safety of the vehicle.
- 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.

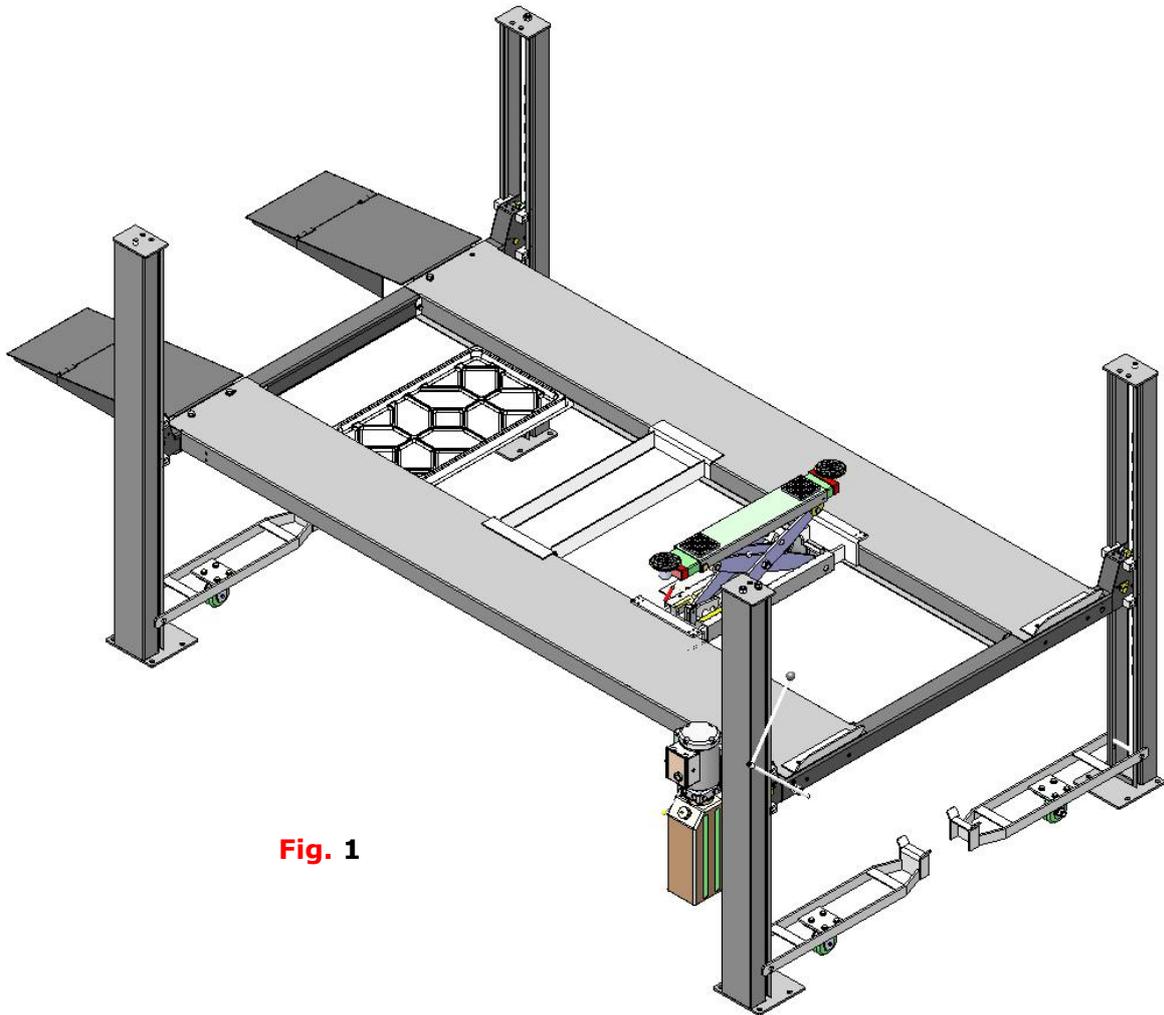


Fig. 1

MODEL 407-P SPECIFICATIONS

| Model | Lifting Capacity | Lifting Height | Lifting Time | Overall Length (Inc. Ramps) | Overall Width | Overall high | Width Between Columns | Motor |
|-------|------------------|-------------------|--------------|-----------------------------|-------------------|-------------------|-----------------------|---------------------------|
| 407-P | 7000lbs | 73 5/8" 1862mm | 31S | 185 7/8" 4720mm | 94 7/8" 2409mm | 82 7/8" 2105mm | 85 3/8" 2167mm | 110V: 1.0HP 220V:3.0HP |

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

↳ Tape Measure (7.5m)



↳ Hammer



↳ Level Bar



↳ English Spanner



↳ Wrench set: (12#, 13#, 14#, 15#, 17#, 19#, 24#, 30#)



↳ Carpenter's Chalk



↳ Screw Sets



↳ Pliers



↳ Lock Wrench



↳ Socket Head Wrench: (3#, 5



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 lift installation.
2. Concrete must be in good condition and must be of test strength 210kg/cm^2 (3,000psi) minimum.
3. Floors must be level and no cracks.

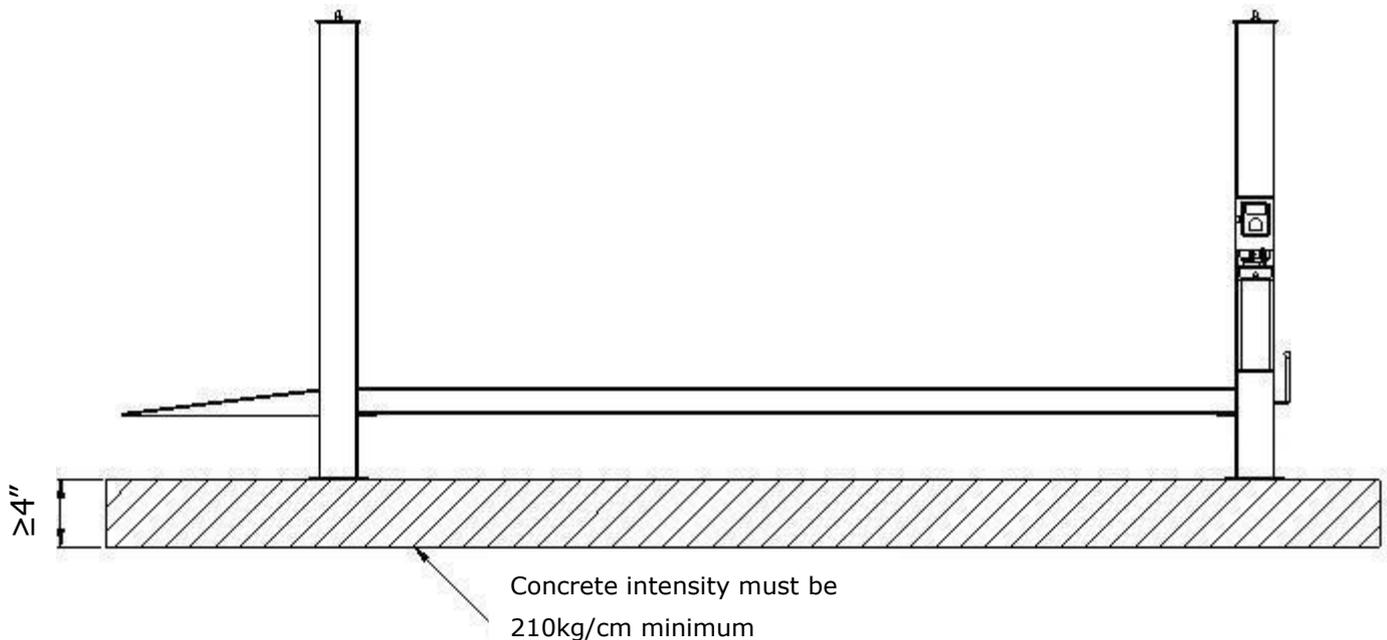


Fig.4

E. POWER SUPPLY

The electrical source must be 3.0HP minimum. The source cable size must be 2.5mm^2 minimum 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)

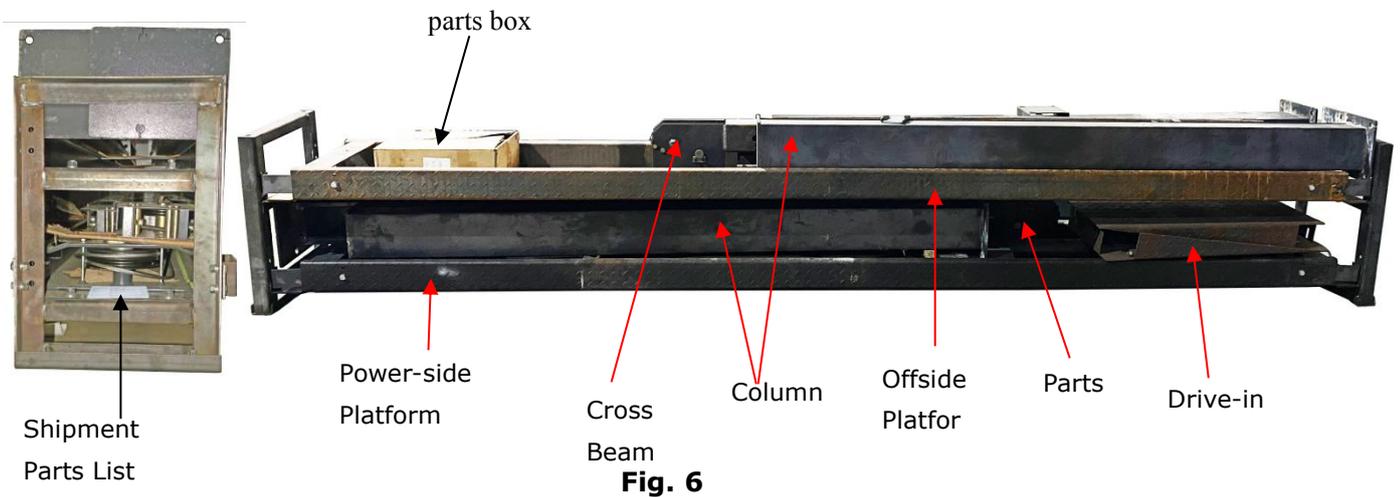


Fig. 6

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



Fig.7

4. Loose 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).

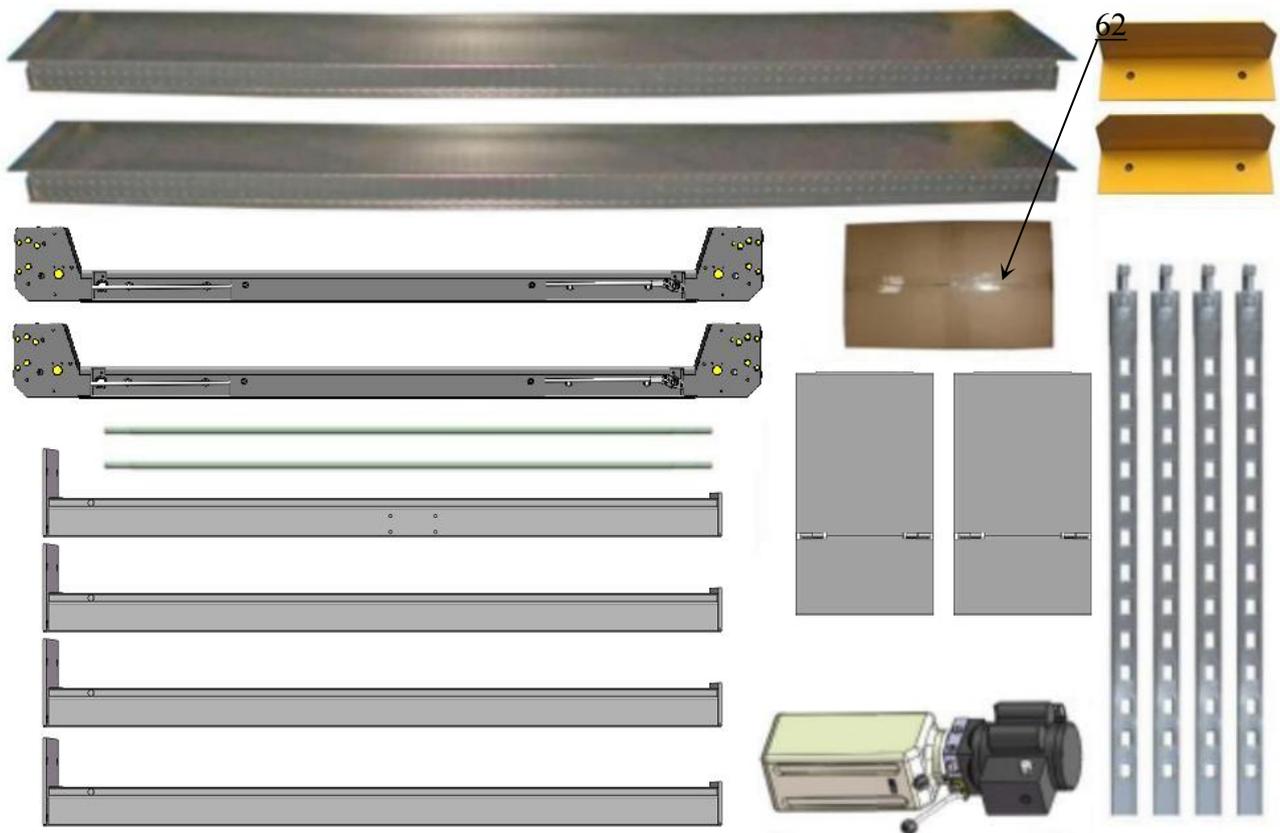


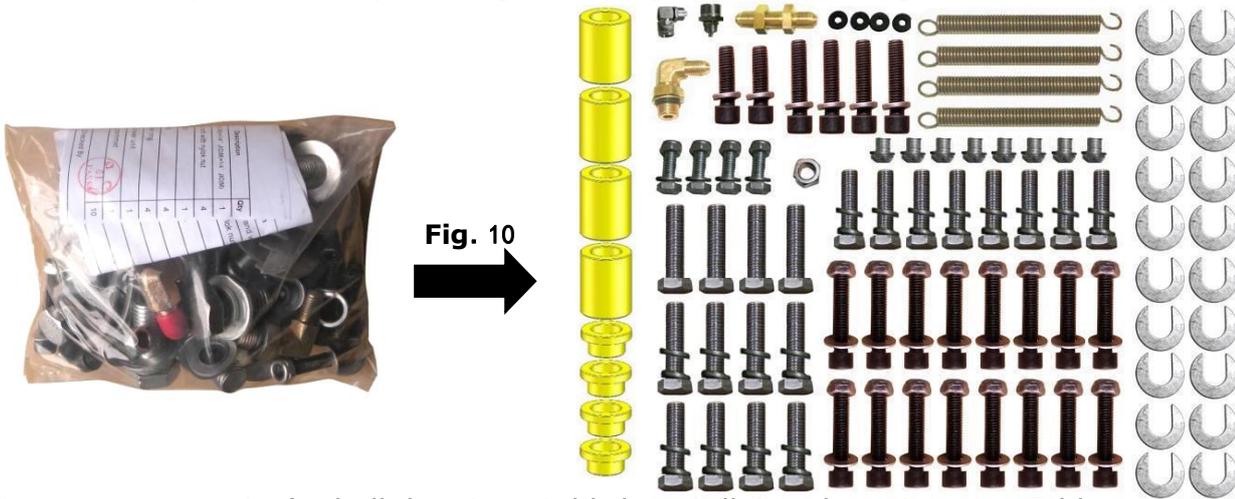
Fig. 8

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



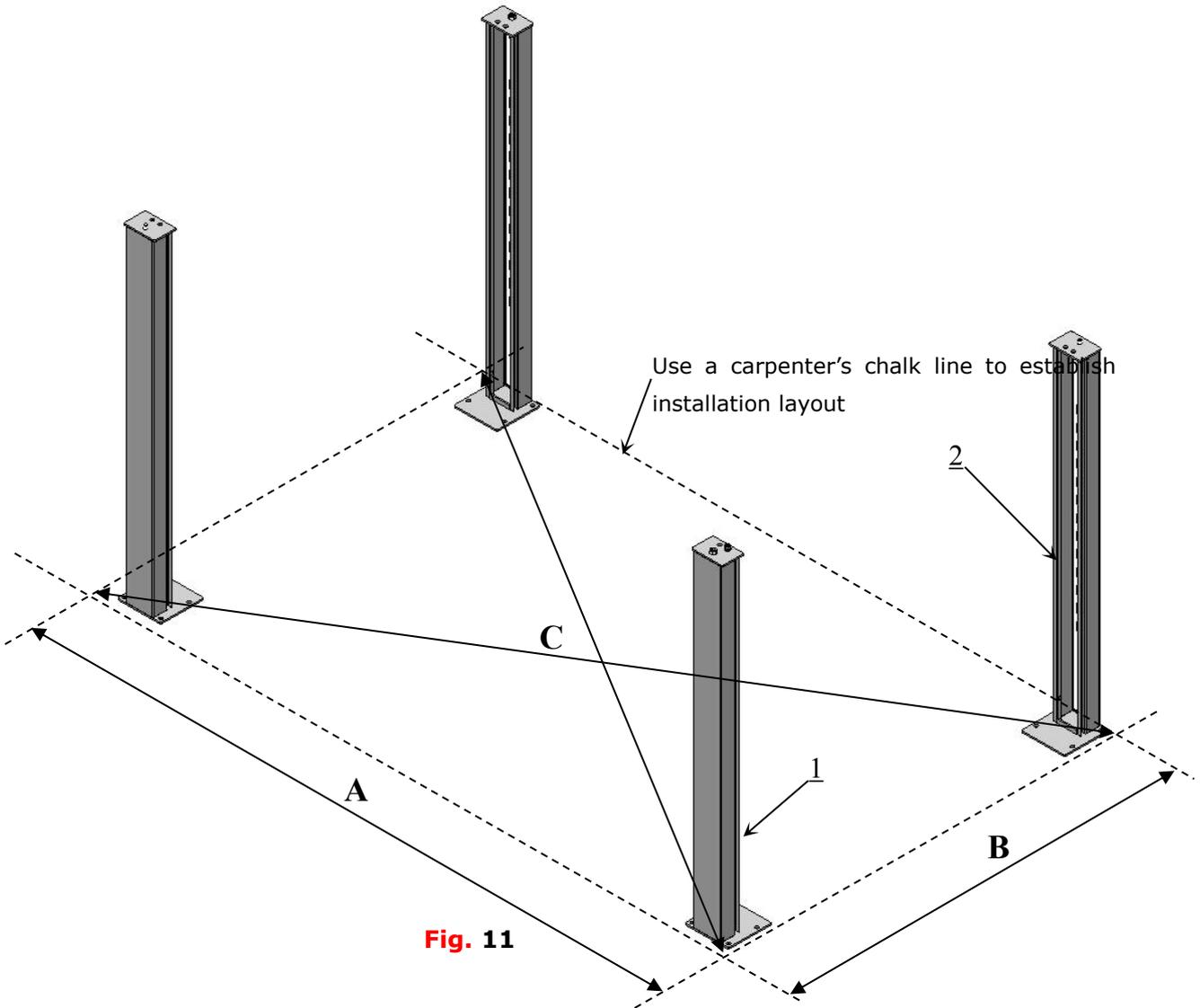
Fig. 9

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



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 space front and behind the installation site.



| MODEL | A | B | C |
|-------|----------------------|---------------------|----------------------|
| 407-P | 3877mm (152 5/8") | 2409mm (94 7/8") | 4564mm (179 5/8") |

C. Install cross beams (Note that Hole of the beam towards inside and the side with the rotating component of the safety mechanism should be the same side as the column where the power unit is installed. See Fig.12 & 13)

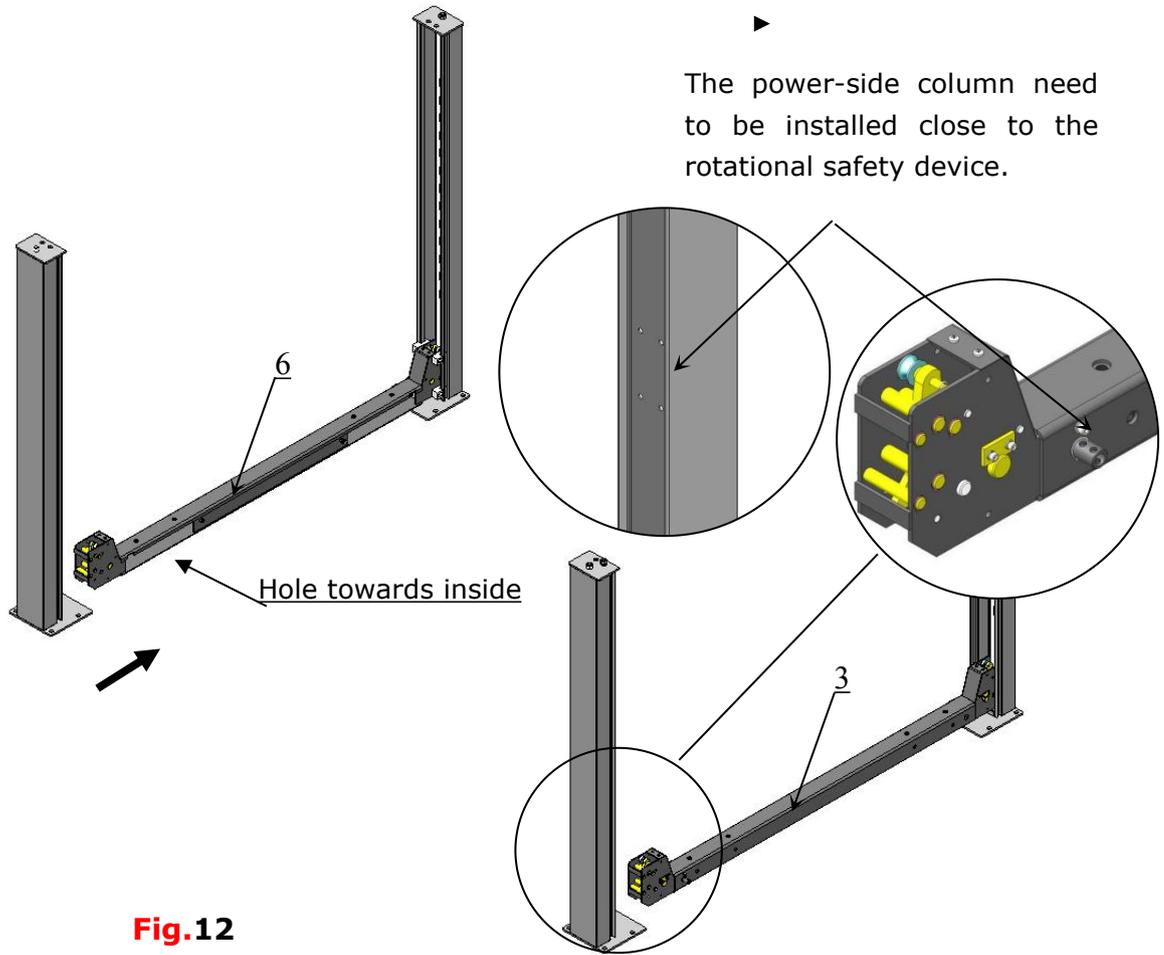


Fig.12

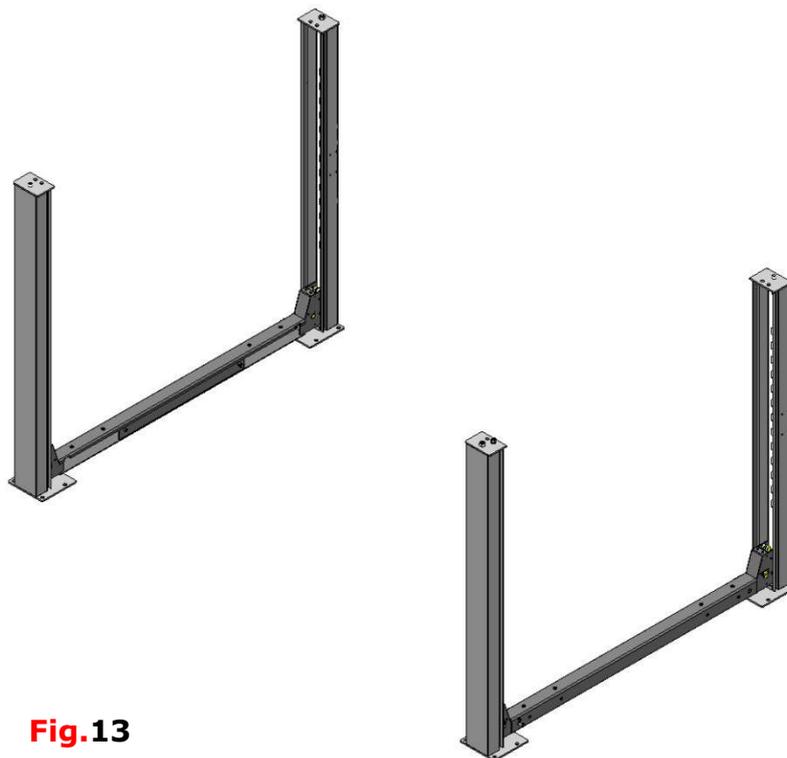
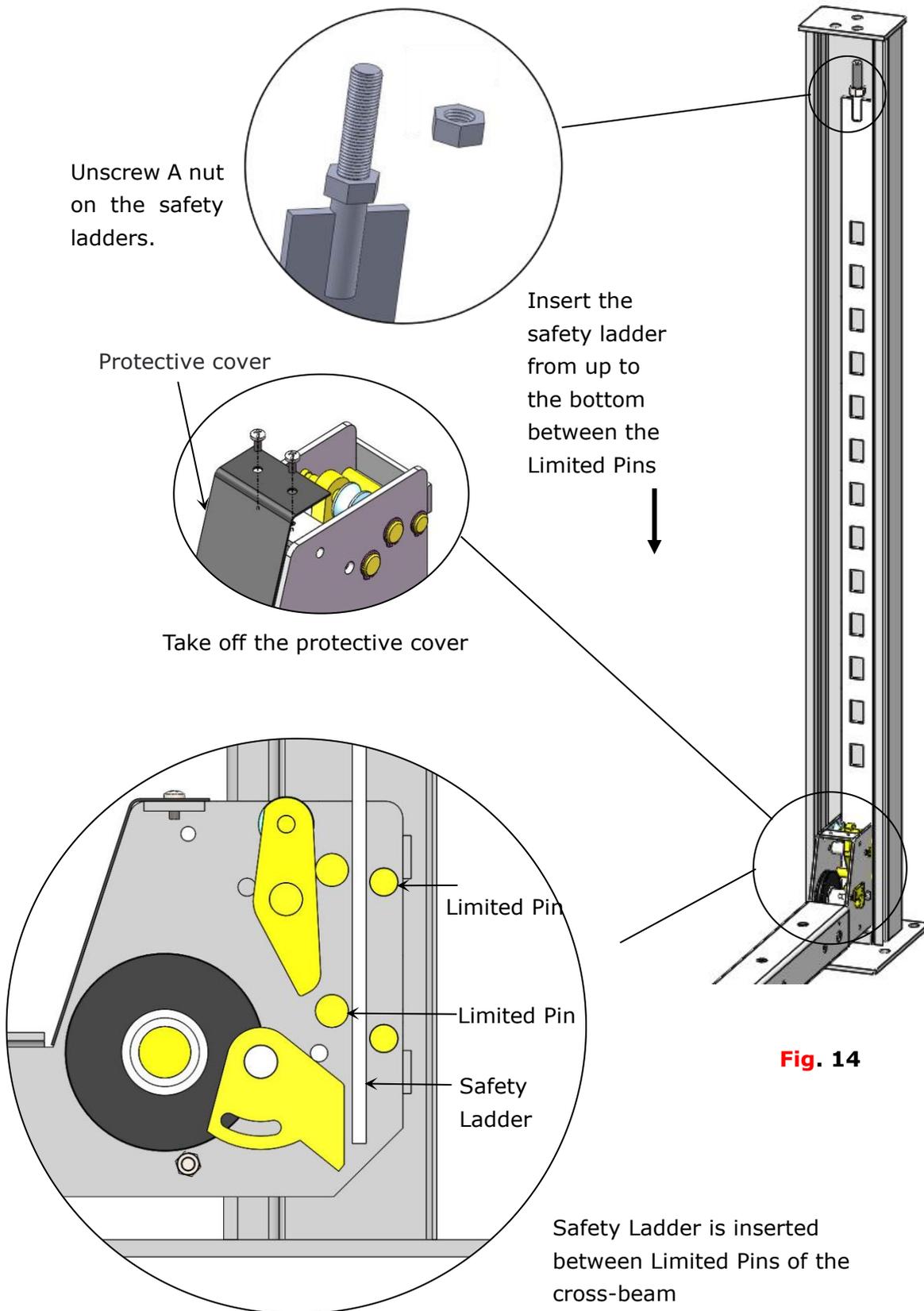


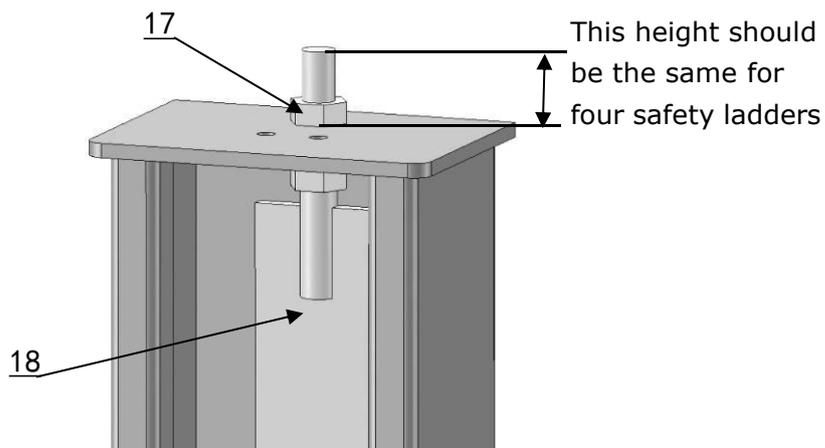
Fig.13

D. Install the Safety Ladders.

1. Take off the pulley safety cover and unscrew a nut of the safety ladders, and then adjust the four lower nuts to be at the same position. Then install the safety ladder (**See 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. Put the cross beams at the same height and lock on the safety ladder (See Fig. 16).

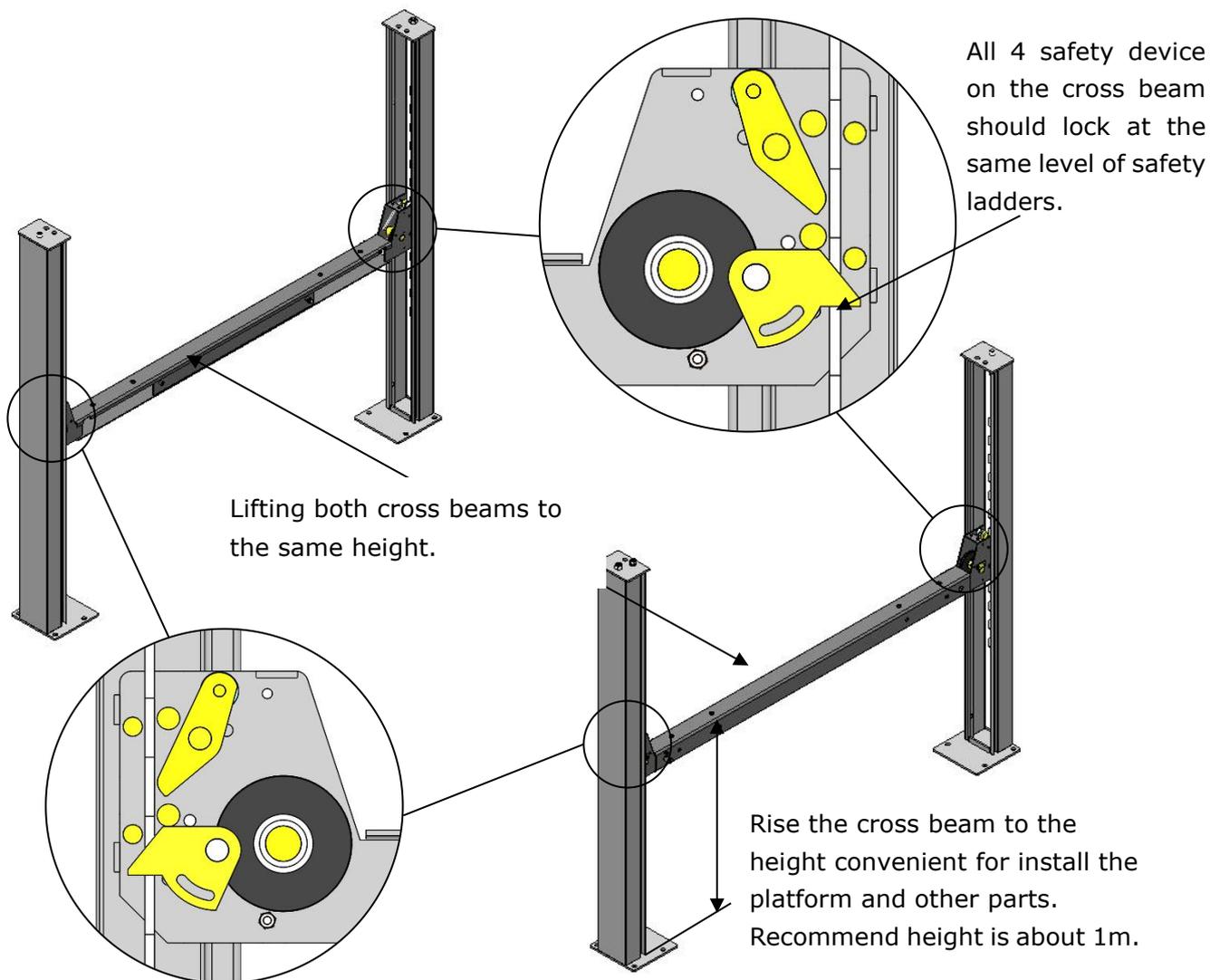
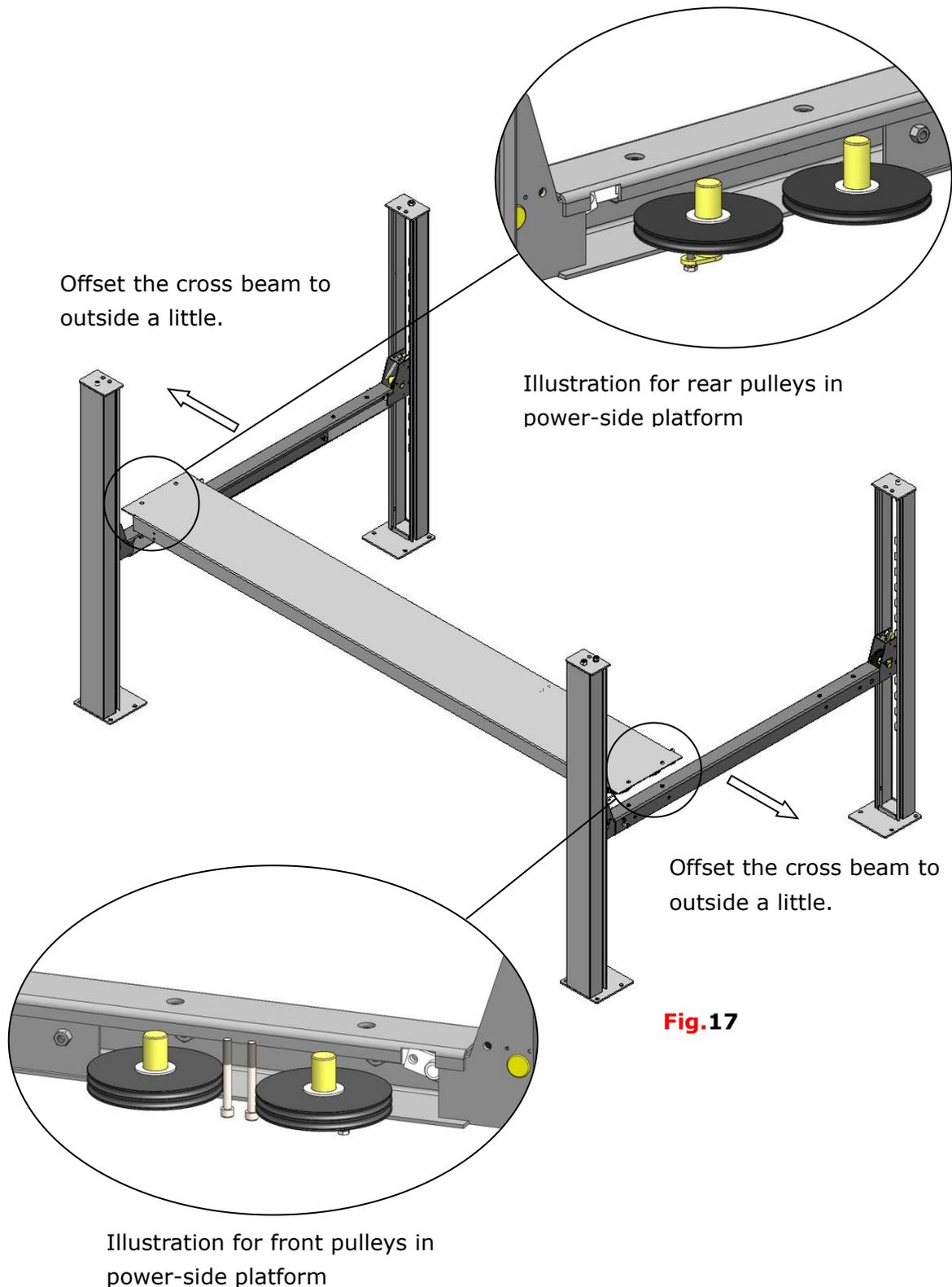


Fig. 16

F. Install power side platform.

1. Install the power-side platform on the cross beams by a fork lift or manual, offset the cross beams to outside a little until the pulleys of both platforms enter into the cross beams opening (**See Fig.17**). Aligning holes on the power-side platform and cross beam, then screw up the bolts.



2. Install tire stop plate with bolts and washer on the platform: Tighten the platform on cross beam **B** with bolts, tighten the tire stop plate on cross beam **A** with bolts

Note: The bolts for the side with tire stop plate is longer, pay attention when choosing the bolts (**See Fig.18**)

Instruction: 1). This lift is designed in both side (cross beam **A** and cross beam **B**) car in direction, user can install the lift according to the location. Below is the installation for the side of cross beam **B** car in direction. If choosing the side of cross beam **A** car in direction, then install the tire stop plate to the other side.

2). Power-side column can be installed at any position on customers' requirement, but the power unit must be installed near the side with the safety lock release handle.

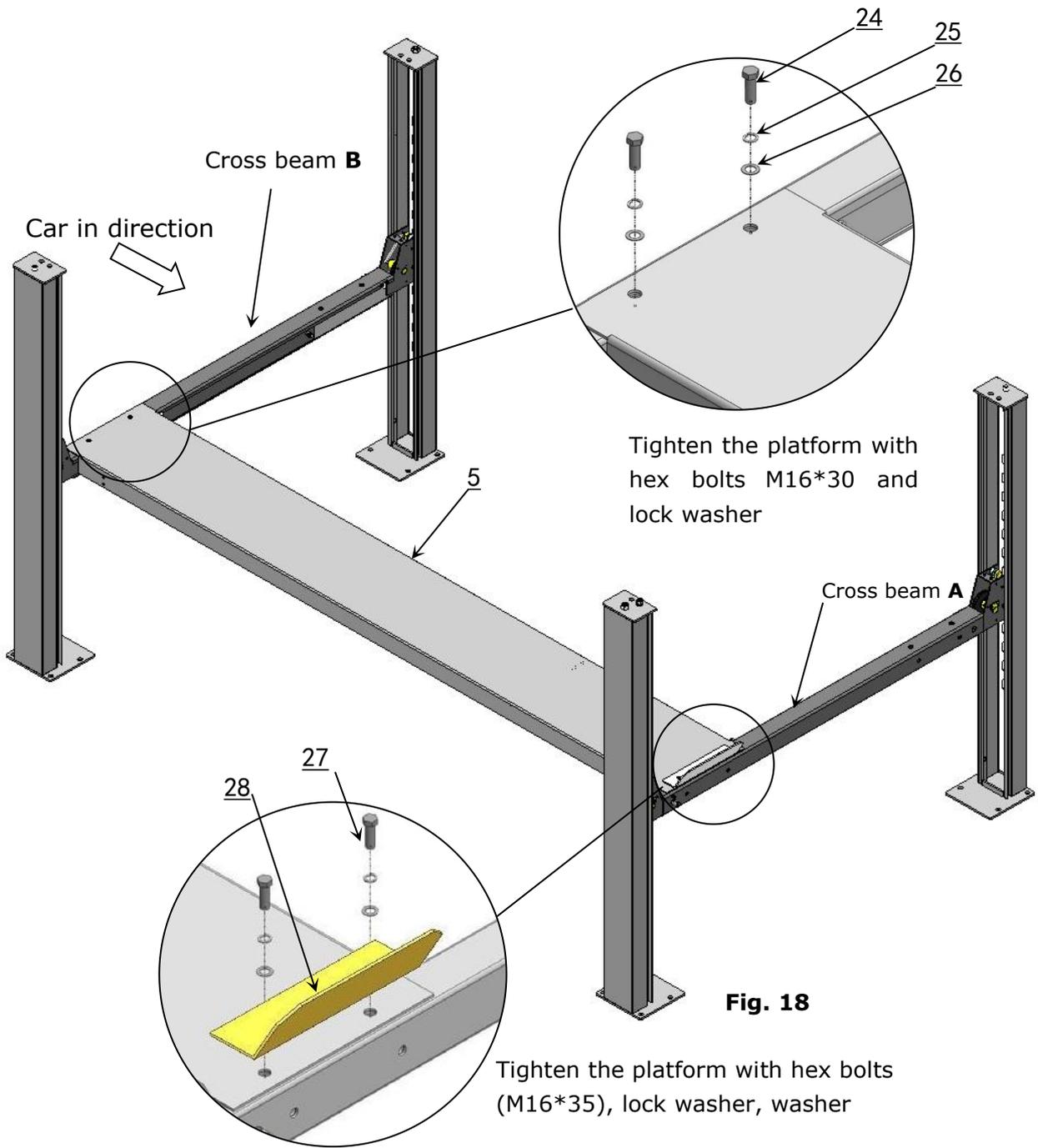
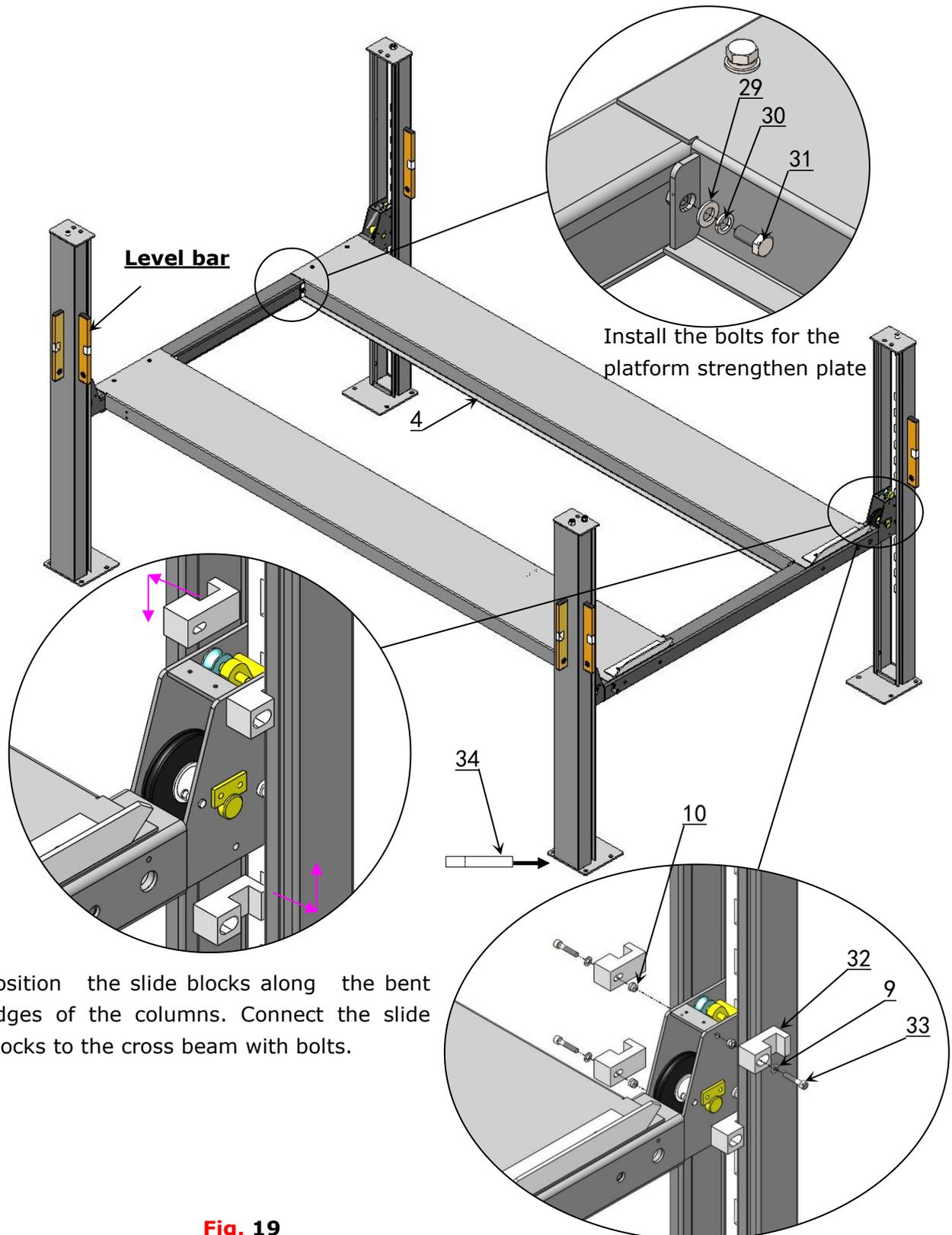


Fig. 18

G. Install offside platform and plastic block, then install the bolts for the platform strengthen plate, check the plumbness of columns with level and adjusting with the shims (See Fig. 19)



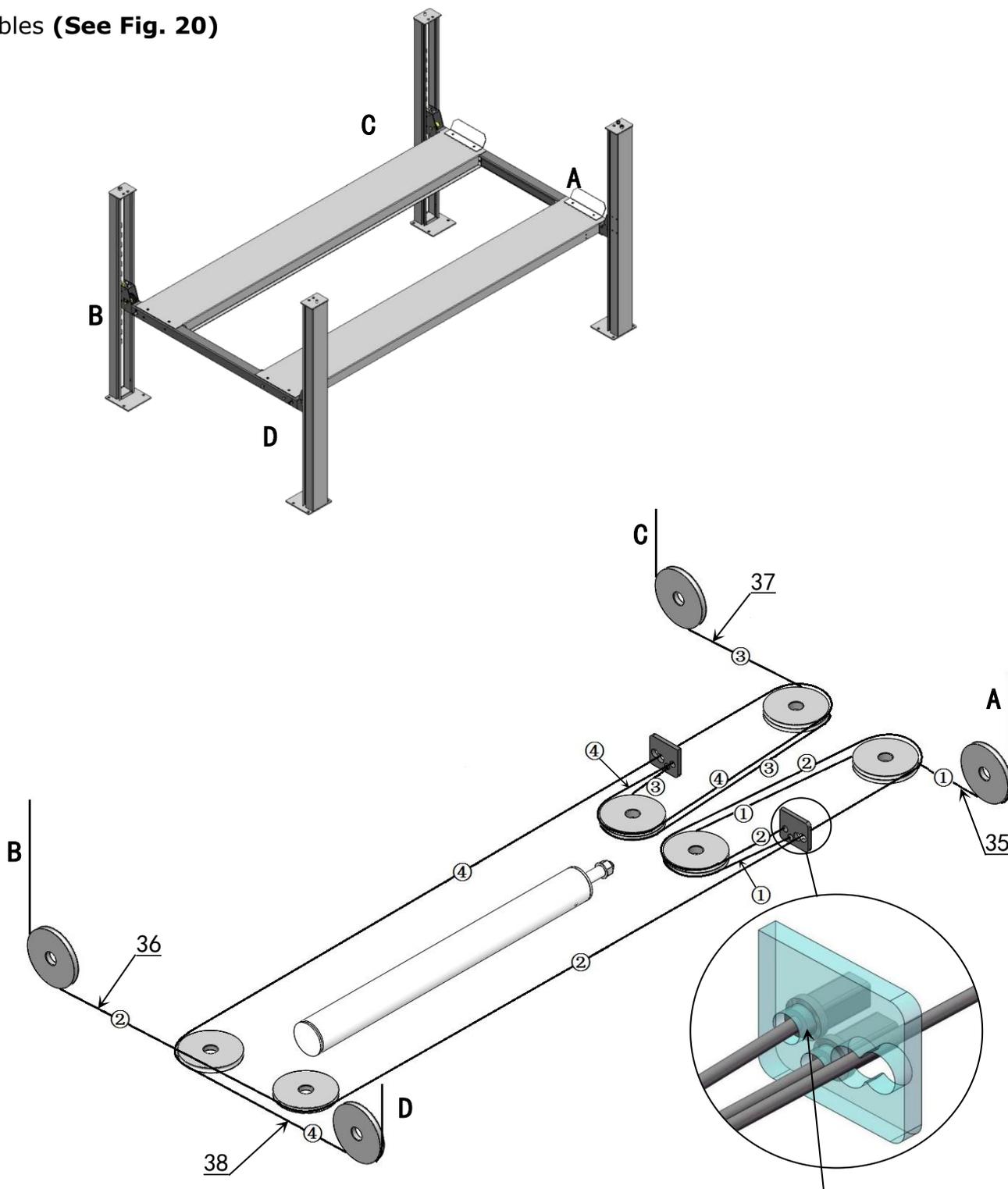
Position the slide blocks along the bent edges of the columns. Connect the slide blocks to the cross beam with bolts.

Fig. 19

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

H. Illustration for cable installation

1. Pass through the cables from the platform to the columns according to the number of the cables (**See Fig. 20**)



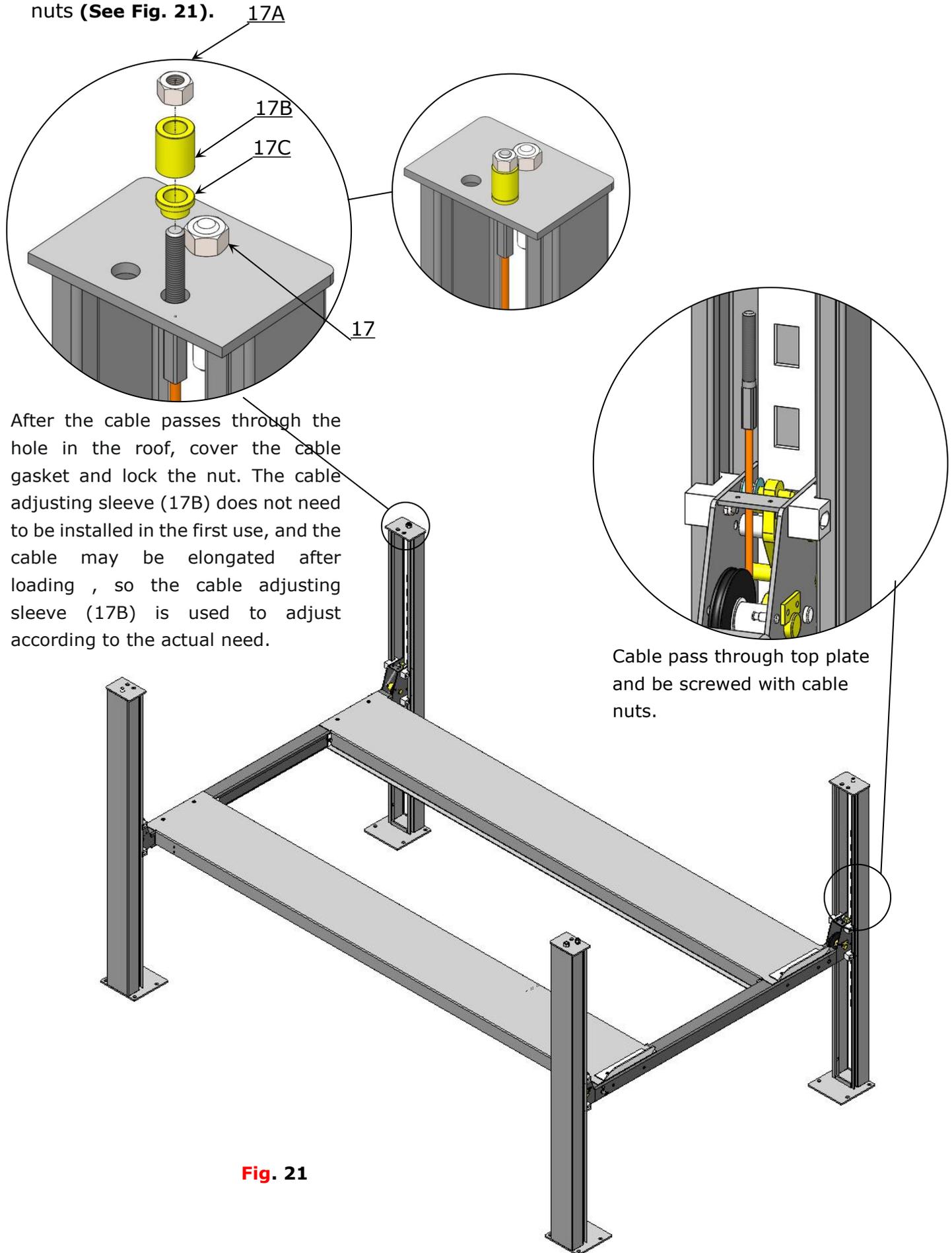
Cable installation diagram

Fig. 20

Make sure the cable coupling steps is in the hole when the cable tightened

| NO. | ① | ② | ③ | ④ |
|-------------------------------------|--------|--------|--------|--------|
| Cable | | | | |
| Length (inc. connecting fitting) | 4264mm | 9529mm | 5684mm | 8112mm |

2. The cable goes through the cross beam to top plate of columns and be screwed with cable nuts (**See Fig. 21**).



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

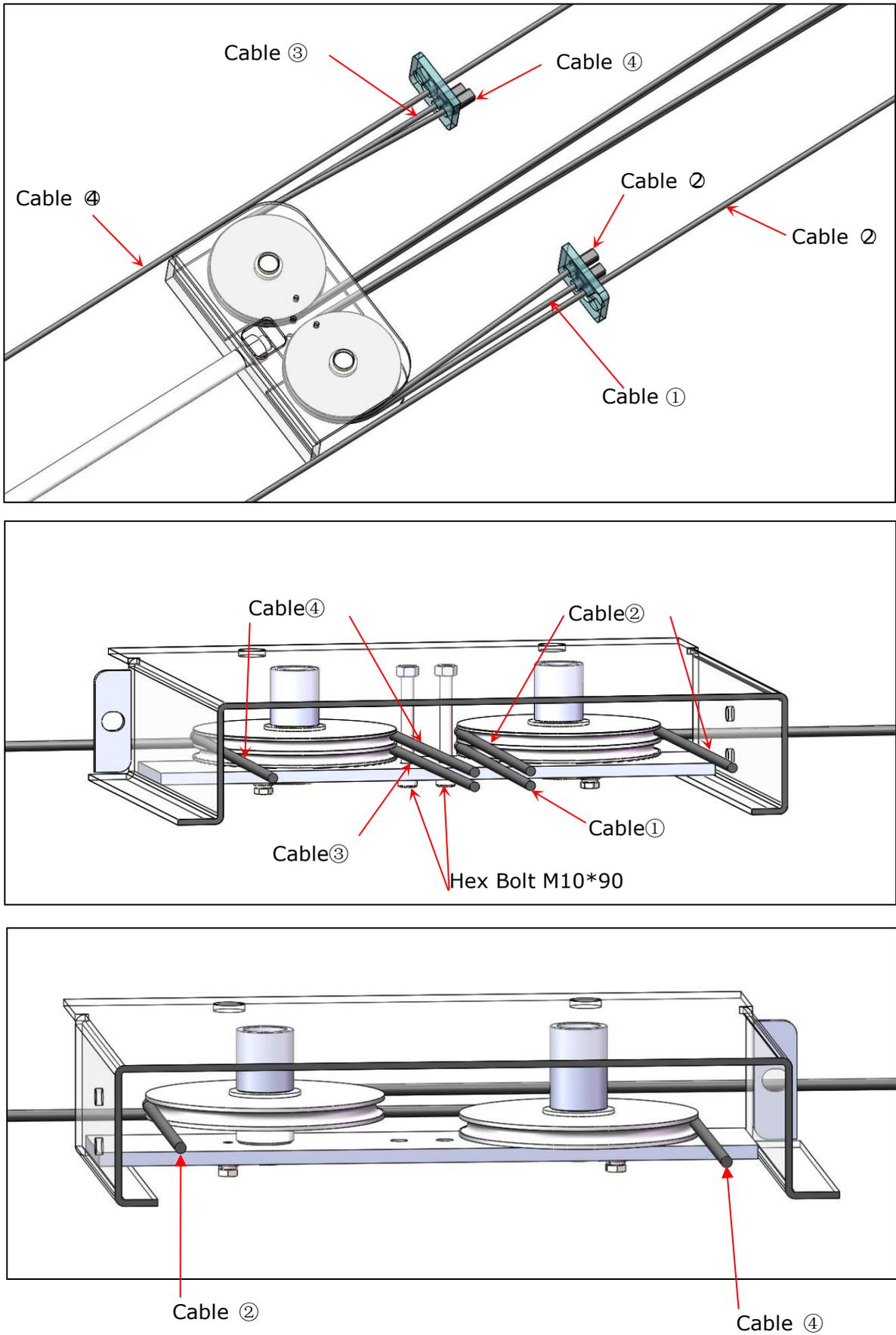


Fig. 22

I. Install release handle assy. See Fig.23

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

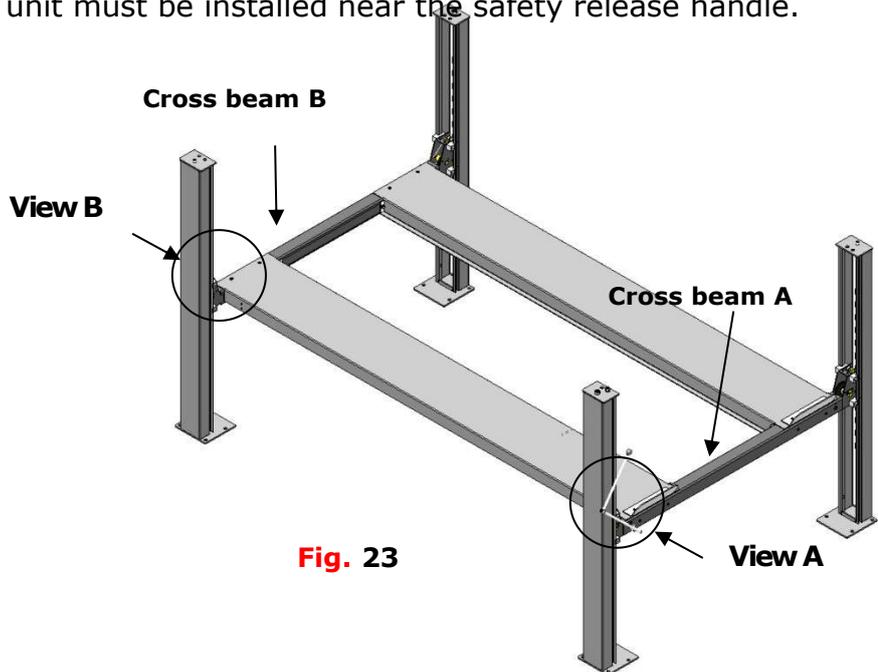
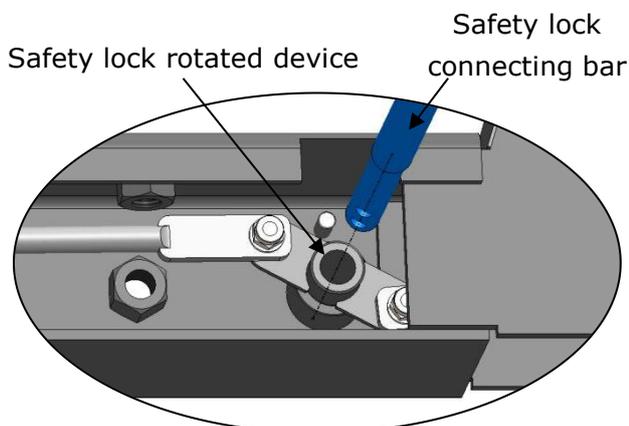
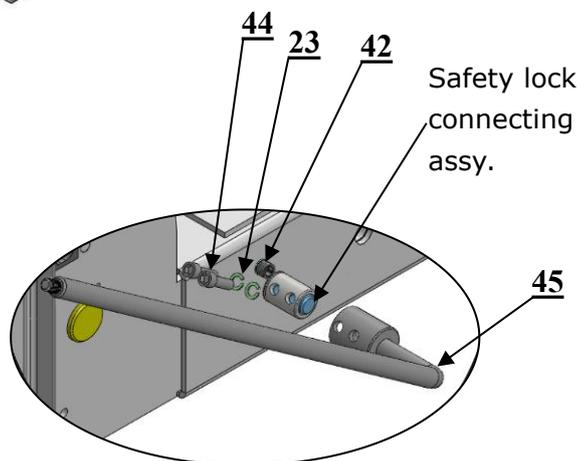


Fig. 23

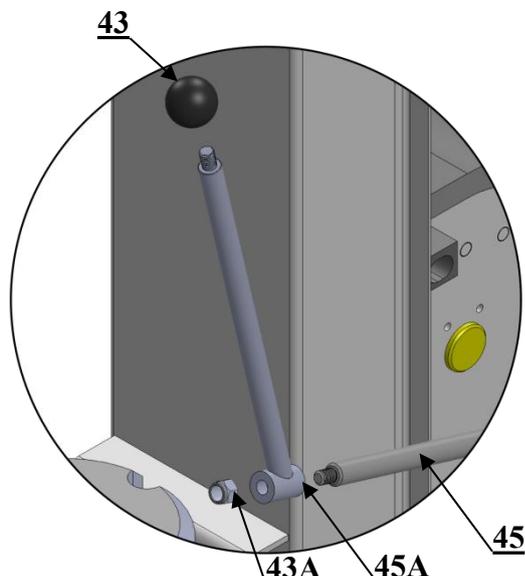


Pass through the connecting bar from the safety lock rotated device of cross beam **A/B**

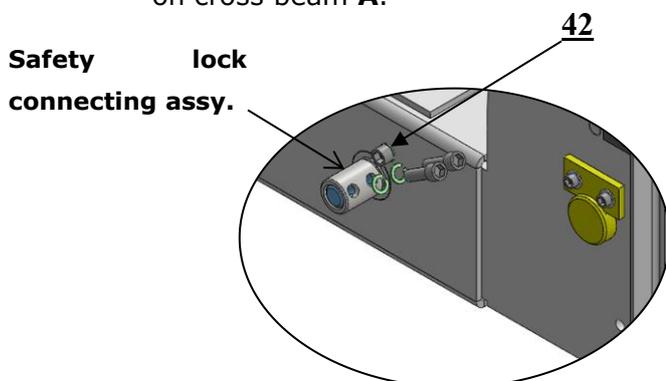


View A

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



Install extend lock release handle and plastic ball



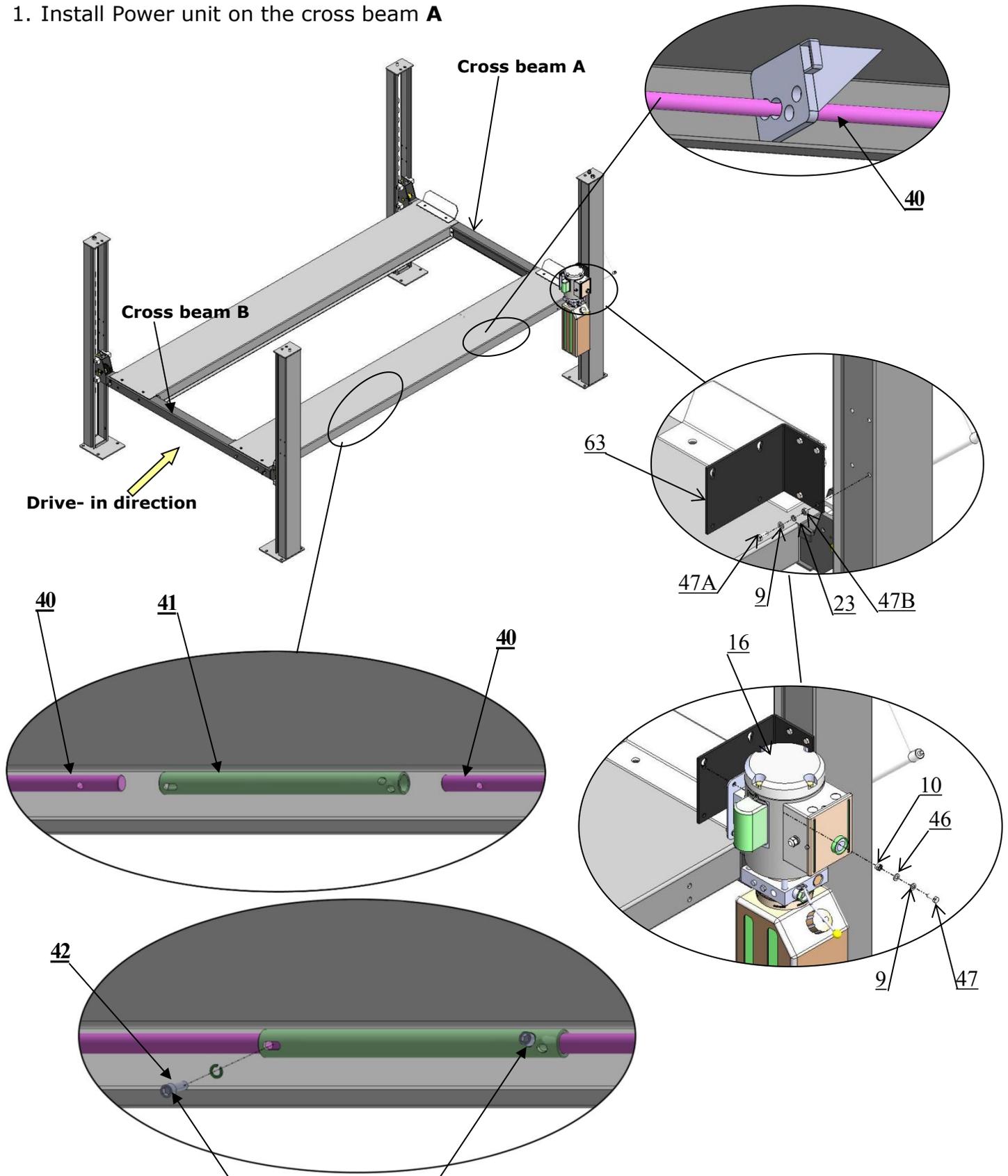
View B

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

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
(Connecting tube pass through the fixing plate)

Fig. 24

K. Install Hydraulic System

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

Note: Oil hoses connected to oil cylinder must be passed above the cable to avoid the oil hose scratched by cable.

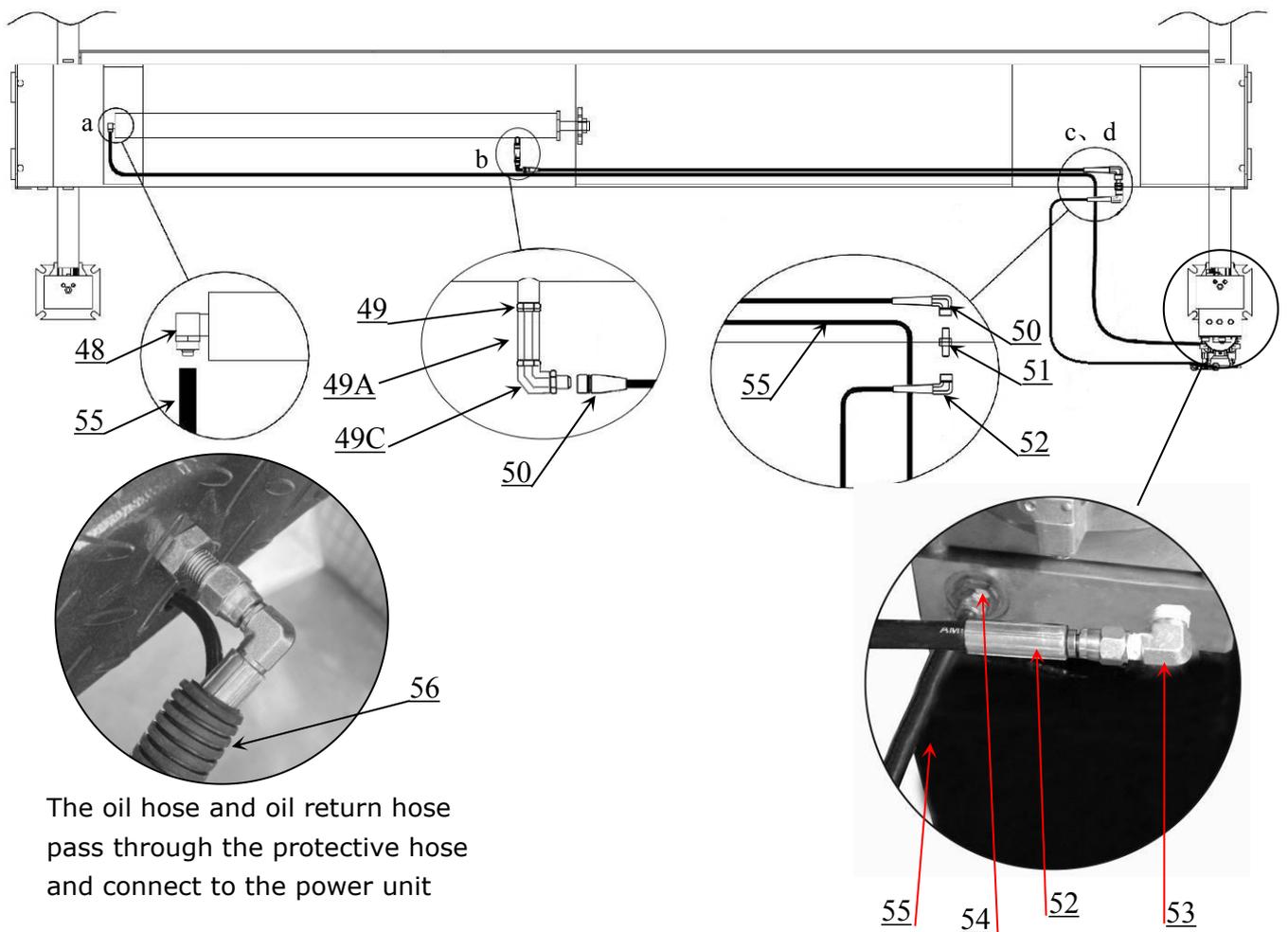
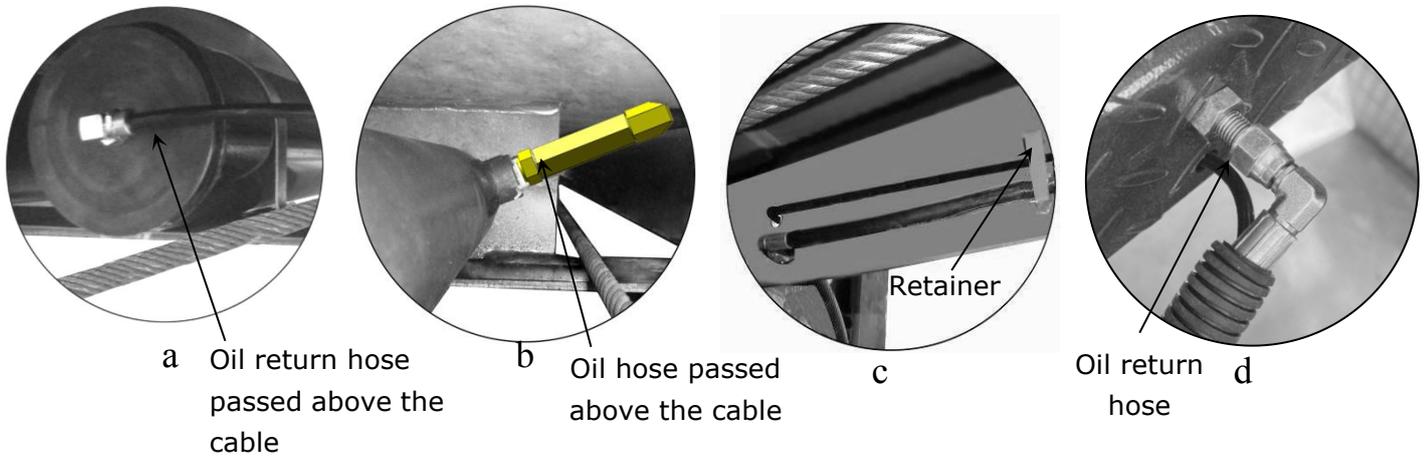


Fig. 25

L. Install Electrical System

Connect the power source on the data plate of Power Unit.

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

Single phase motor (See Fig. 26).

1. Connecting the two power supply lines (active wire **L** and neutral wire **N**) to terminals of AC contactor marked **L1**, **L3** respectively.
2. Connecting the two motor wires to terminals of AC contactor marked **T1**, **T3**.
3. Connecting **A2** to **L3** of AC contactor.
4. Connecting the two wire of the button switch to the terminals of AC contactor marked **A2**, **L1**.

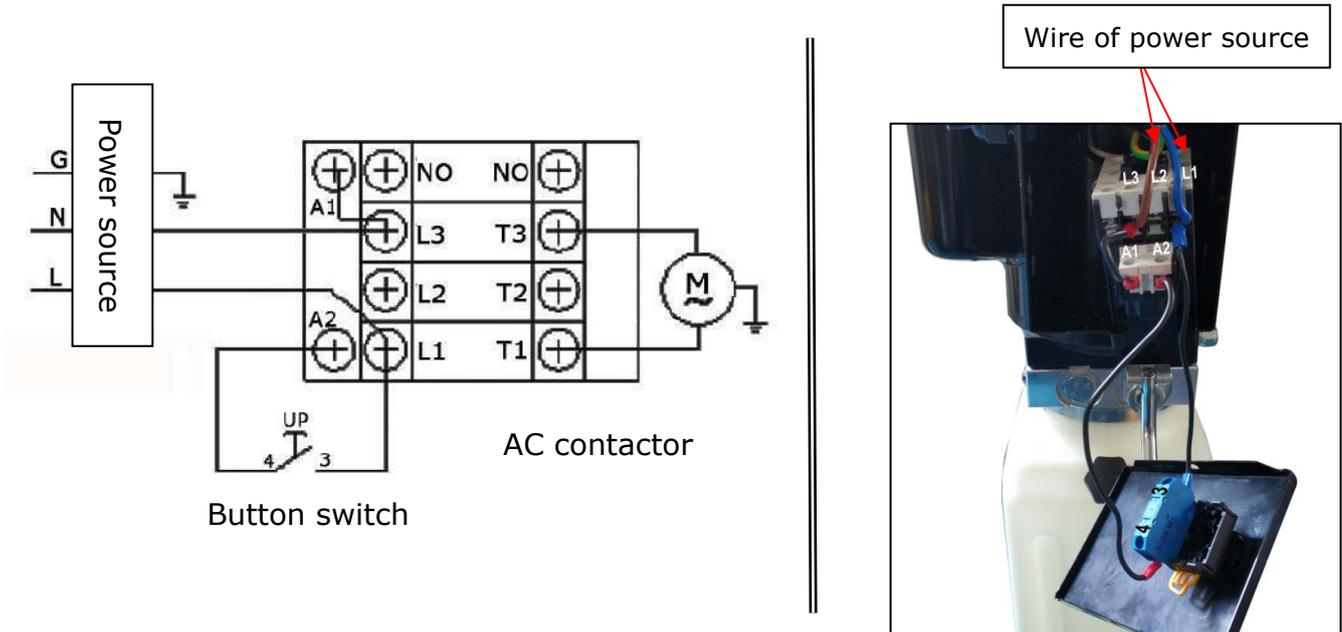


Fig.26

M. Install spring and safety cover of cross beam (See Fig. 29).

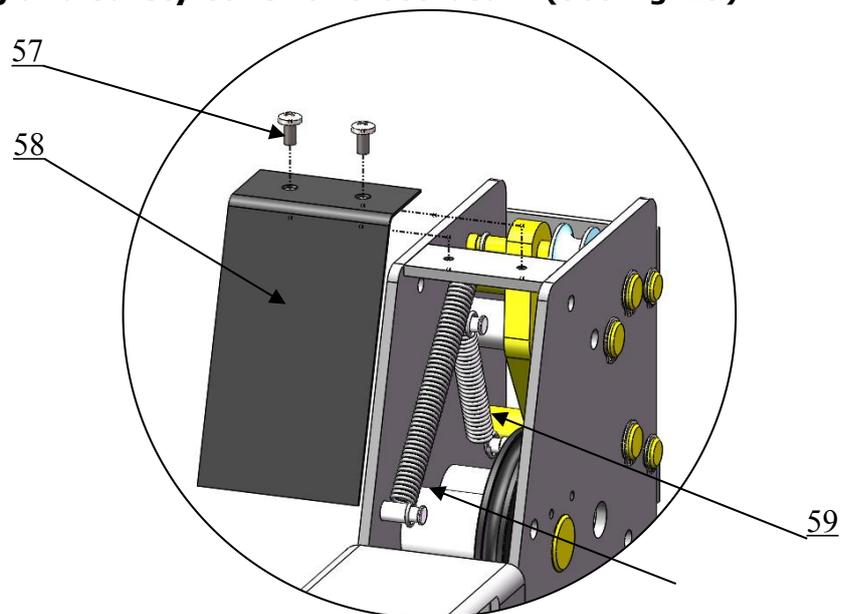


Fig.27

N. Install Folding drive-in ramp, optional jack tray and optional plastic oil pans
(See Fig. 28).

According to the below diagram screw up the M16*30 bolts, then attach the drive-in ramp.

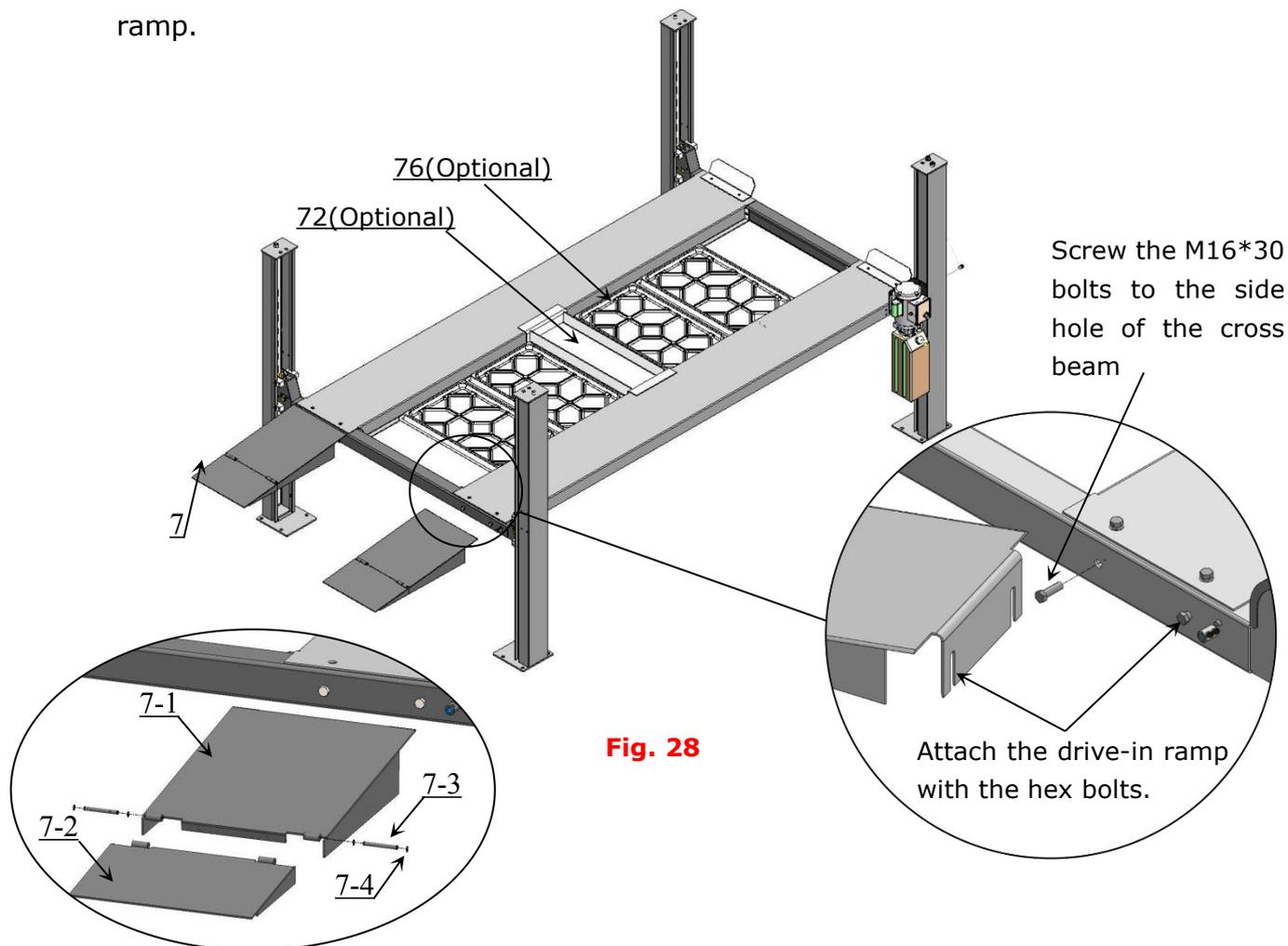


Fig. 28

Folding Drive-in ramps Part List

| Item | Part# | Description | QTY. |
|------|-------------|-----------------|------|
| 7-1 | 1104543020A | Folding Ramps 1 | 2 |
| 7-2 | 1104543021A | Folding Ramps 2 | 2 |
| 7-3 | 1104543021 | Connecting Pin | 4 |
| 7-4 | 10209010 | φ10 Snap Ring | 8 |

O. Install Rear wheel stop plates (See Fig. 31)

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

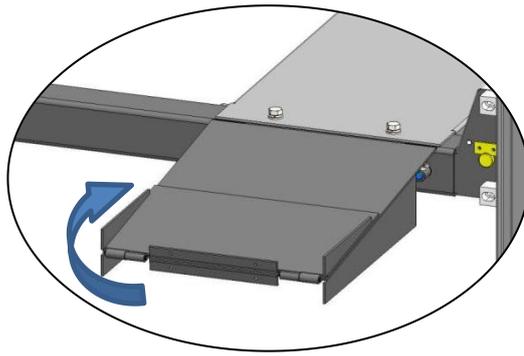


Fig. 29

P. For optional kits installation.

1. Install optional caster kits (See Fig. 30)

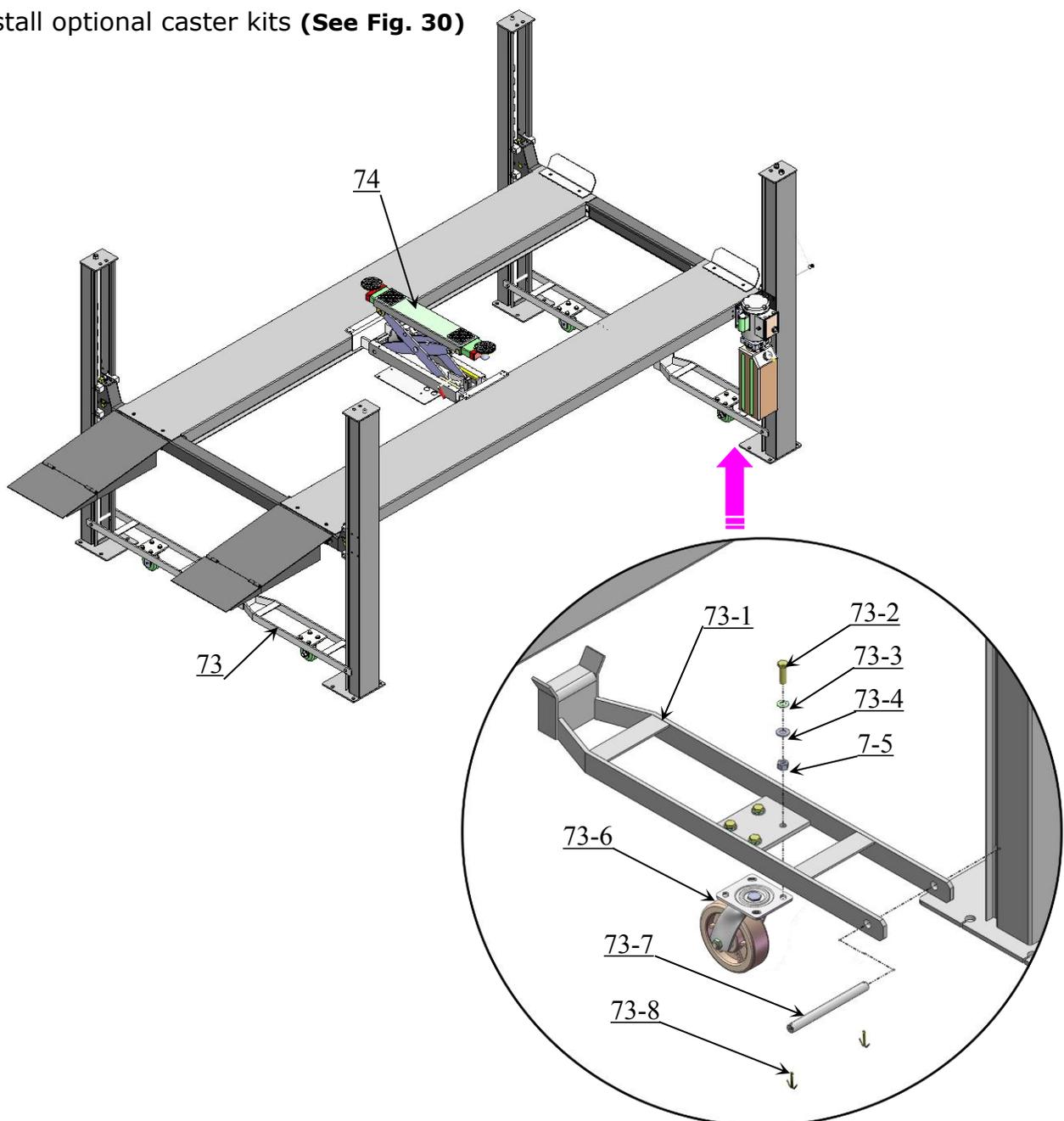


Fig. 30

| Item | Part# | Description | QTY. | Note |
|------|-----------|-------------------------------------|------|------|
| 73-1 | 11410042A | Support bracket | 4 | |
| 73-2 | 10209125 | Hex bolt | 16 | |
| 73-3 | 10209039 | Lock washer $\phi 10$ | 16 | |
| 73-4 | 10209022 | Washer $\phi 10$ | 16 | |
| 73-5 | 10209021 | Hex nut M10 | 16 | |
| 73-6 | 10410035 | Plastic wheel | 4 | |
| 73-7 | 11410034 | Connecting pin $\phi 19 \times 216$ | 4 | |
| 73-8 | 10209012 | Hair Pin $\phi 3.2$ | 8 | |

P. Fix the anchor bolts

1.1 Prepare the anchor bolts (See Fig. 31).

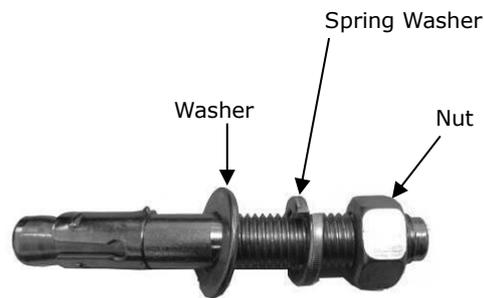


Fig. 31

1.2 Using the prescribed rotary hammer drill, and drill all the anchor holes and install the anchor bolts. Do not tighten the anchor bolts (See Fig. 36).

Note: The tightening torque for the anchor bolt is 150N.m ,Anchor bolts driven into the ground at least 90mm

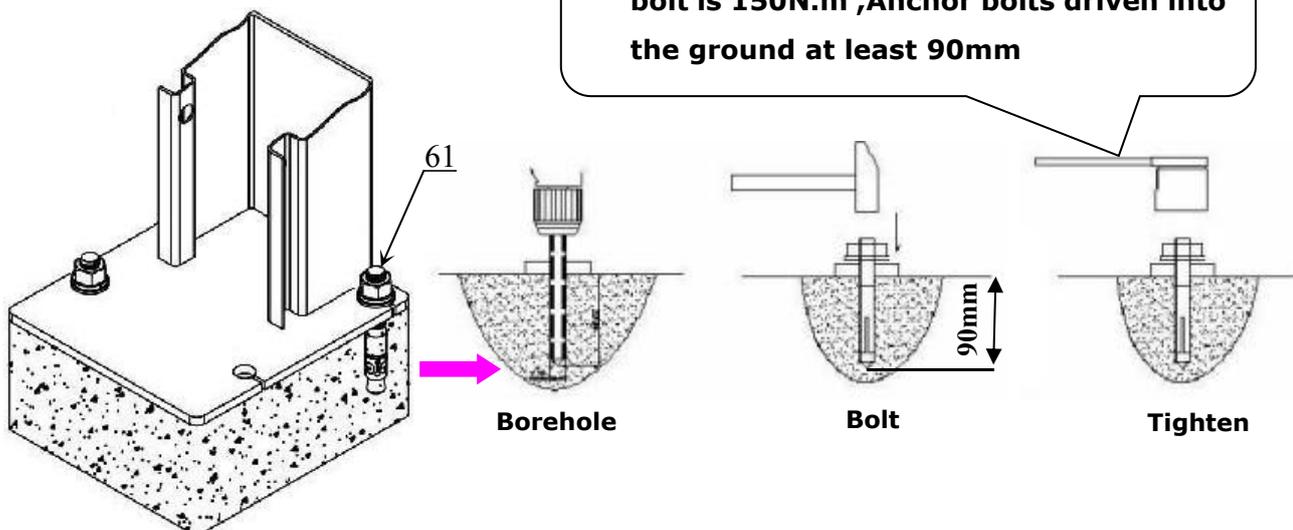


Fig. 32

IV. EXPLODED VIEW

Model 407-P

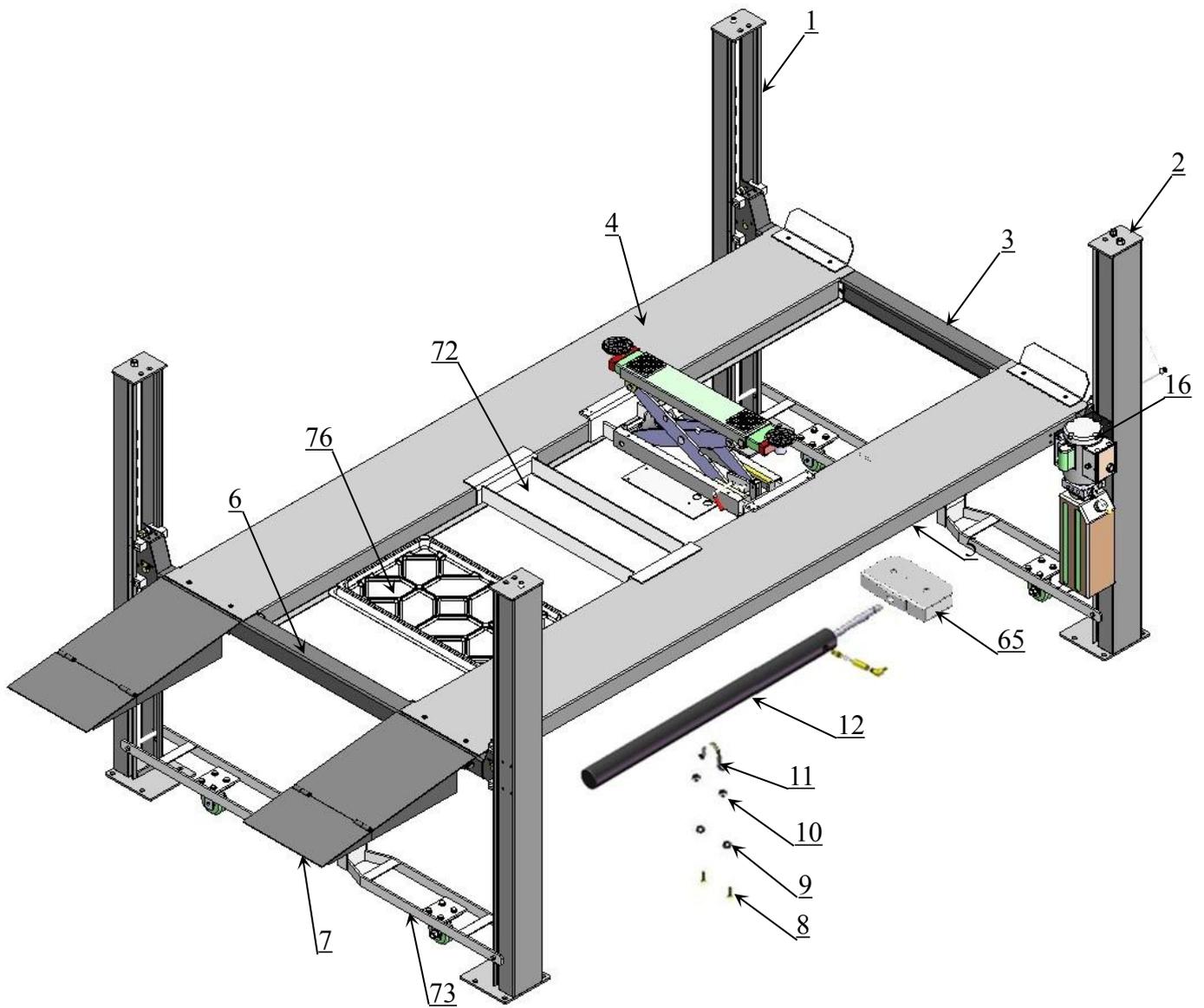
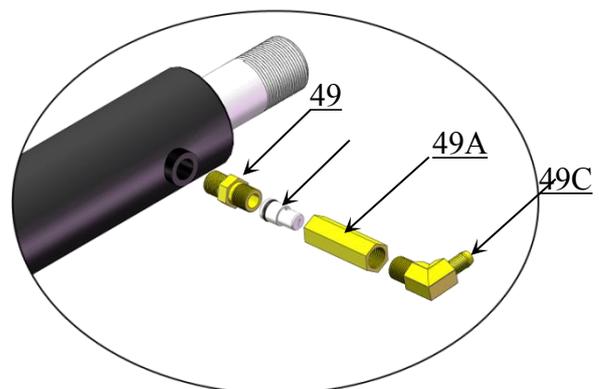


Fig. 33



Power-side platform

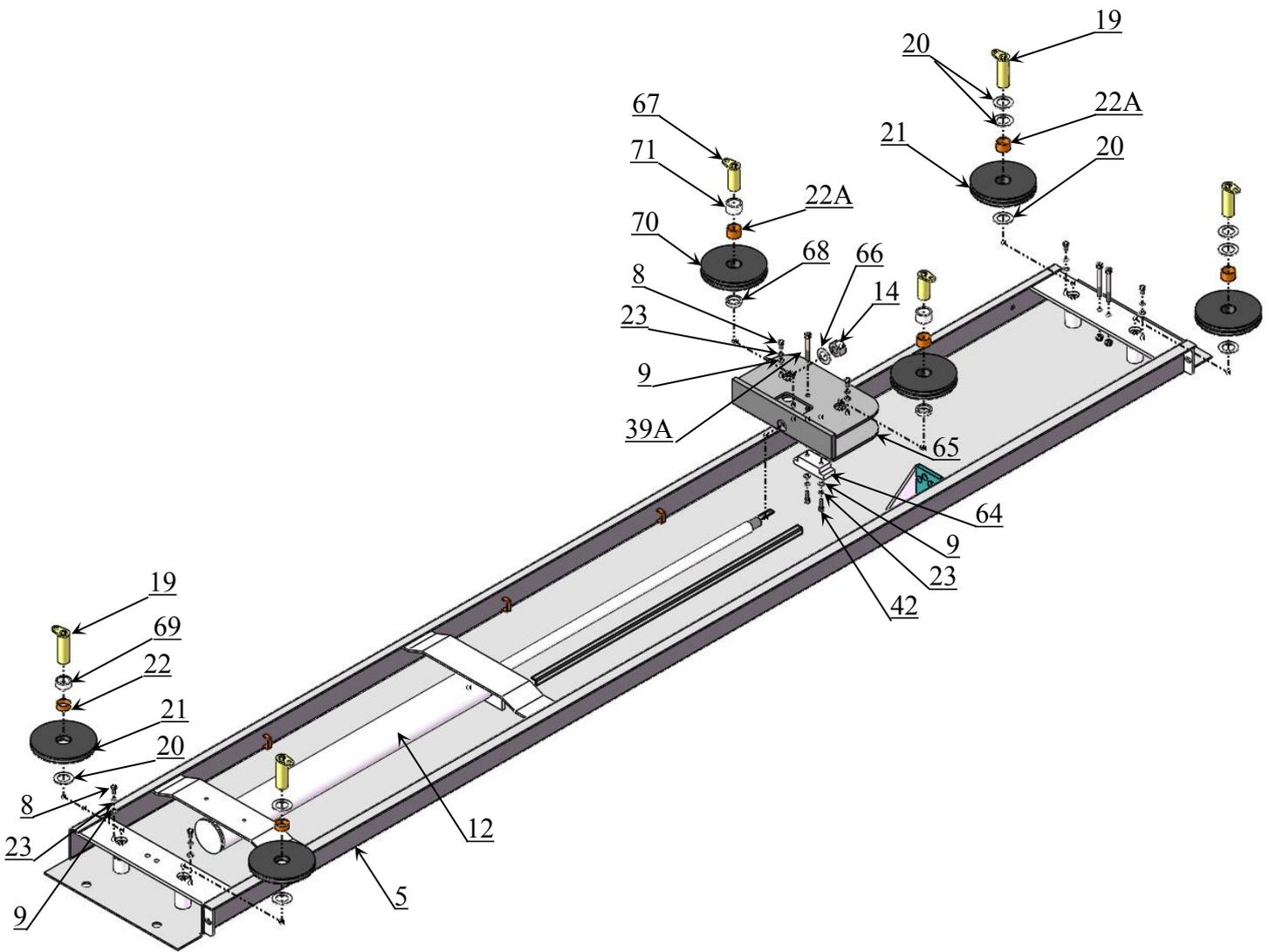


Fig. 34

PARTS LIST FOR MODEL 407-P

| Item | Part# | Description | QTY. | Note |
|------|-------------|-----------------------|------|------|
| 1 | 11410002 | Power-side Column | 3 | |
| 2 | 11410001 | Offside Column | 1 | |
| 3 | 1104542001B | Cross Beam A | 1 | |
| 4 | 1104543001B | Offside Platform | 1 | |
| 5 | 1104543001A | Power-side Platform | 1 | |
| 6 | 1104542001B | Cross Beam B | 1 | |
| 7 | 1104543020C | Folding Drive-in ramp | 2 | |
| 8 | 10201002 | Hex Bolt M8*16 | 6 | |
| 9 | 10209033 | Washer φ8 | 44 | |
| 10 | 10209005 | Self locking Nut M8 | 28 | |
| 11 | 11423004 | Cylinder fixed ring | 1 | |

| Item | Part# | Description | QTY. | Note |
|------|----------------|--|------|------|
| 12 | 1004546000 | Cylinder φ80*876 | 1 | |
| 13 | 1104533013A-01 | Piston rod connecting seat | 1 | |
| 14 | 10410012 | Hex Nut M24 | 1 | |
| 15 | 10201005 | Split Pin φ4*50 | 1 | |
| 16 | 071103 | Manual Power Unit | 1 | |
| 17 | 10420175A | Hex nut M20 | 8 | |
| 17A | 10209066 | Hex nut M16 | 8 | |
| 17B | 1104541002 | Adjusting sleeve of cable | 4 | |
| 17C | 1104541001 | Cable gasket | 4 | |
| 18 | 11410022 | Safety ladder L=1974 | 4 | |
| 19 | 1104543009A | Pulley pin φ30*86.5 | 4 | |
| 20 | 10481005 | Washer φ30 | 21 | |
| 21 | 1104543011 | Pulley φ167*16 | 2 | |
| 22 | 1004542002 | Bronze bush for pulley φ36*φ30.1*15 | 6 | |
| 22A | 10620141 | Bronze bush φ36*φ30.1*24 | 4 | |
| 23 | 10209034 | Lock Washer φ8 | 16 | |
| 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 | 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 | 1004543003 | Cable ① | 1 | |
| 36 | 1004543004 | Cable ② | 1 | |
| 37 | 1004543002 | Cable ③ | 1 | |
| 38 | 1004543001 | Cable ④ | 1 | |
| 39 | 85090099 | Socket Bolt M10*90 | 2 | |
| 39A | 85090332 | Socket Bolt M10*70 | 1 | |
| 40 | 1104542009 | Connecting bar for safety device φ19*1791mm | 2 | |
| 41 | 11410024 | Connecting tube | 1 | |
| 42 | 10209032 | Socket bolt M8*25 | 6 | |
| 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 | 1 | |

| Item | Part# | Description | QTY. | Note |
|----------------------|----------------|--|------|------|
| 46 | 10209004 | Rubber ring $\phi 8 * \phi 20 * 3$ | 4 | |
| 47 | 10209003 | Hex Bolt M8*25 | 8 | |
| 47A | 10209043 | Hex Bolt M8*20 | 4 | |
| 47B | 10217002 | Hex Nut M8 | 4 | |
| 48 | 10420166 | 90° Fitting | 1 | |
| 49 | 11420243 | Straight Fitting for cylinder | 1 | |
| 49A | 11420245 | Limit block | 1 | |
| 49B | 11209119 | Compensation Valve | 1 | |
| 49C | 10201020 | 90°degree fitting | 1 | |
| 50 | 1004543005 | Oil hose | 1 | |
| 51 | 10420120 | Extend straight fitting with nut | 1 | |
| 52 | 1004543008-01 | Oil hose 1/4*1420mm | 1 | |
| 53 | 10209060 | 90° Fitting for power unit | 1 | |
| 54 | 10420095 | Straight fitting | 1 | |
| 55 | 1004543007 | Oil return hose L=4962mm | 1 | |
| 56 | 1004533008 | Protective hose $\phi 20 * 1 * 1400$ mm | 1 | |
| 57 | 10209145A | Cup head bolt with washer M6*12 | 8 | |
| 58 | 1104542012 | Plastic cover for cross beam | 4 | |
| 59 | 1004542001 | Spring $\phi 14 * 2.0 * 50$ | 4 | |
| 60 | 10410146 | Spring $\phi 14 * 2.0 * 75$ | 4 | |
| 61 | 10209059 | Anchor bolt 3/4*5-1/2 | 16 | |
| 62 | | Parts box | 1 | |
| 63 | 1104551003 | 90 degree installation plate | 1 | |
| 64 | 1004543006 | Slider block 106*40*29 | 1 | |
| 65 | 1104533013A-01 | Piston rod connecting seat | 1 | |
| 66 | 10640109 | Washer $\Phi 25.5 * 44 * 2$ | 1 | |
| 67 | 1104533017A-01 | Pulley Pin $\phi 25 * 77.5$ | 2 | |
| 68 | 1104543019 | Adjusting sleeve of pulley $\phi 40 * 4 * 9$ | 2 | |
| 69 | 1104543016 | Adjusting sleeve of pulley $\phi 40 * 4 * 18$ | 1 | |
| 70 | 1104543017 | Pulley $\phi 167 * 25$ | 4 | |
| 71 | 1104533024 | Pad tube $\phi 40 * 4 * 23$ | 2 | |
| Optional kits | | | | |
| 72 | 11410040 | Jack tray | 1 | |
| 73 | 1040801 | Caster kits | 4 | |
| 74 | 96600002 | Jack J5H | 1 | |
| 76 | 10410039 | Plastic oil tray | 4 | |

4.1 CYLINDERS (1004536000)

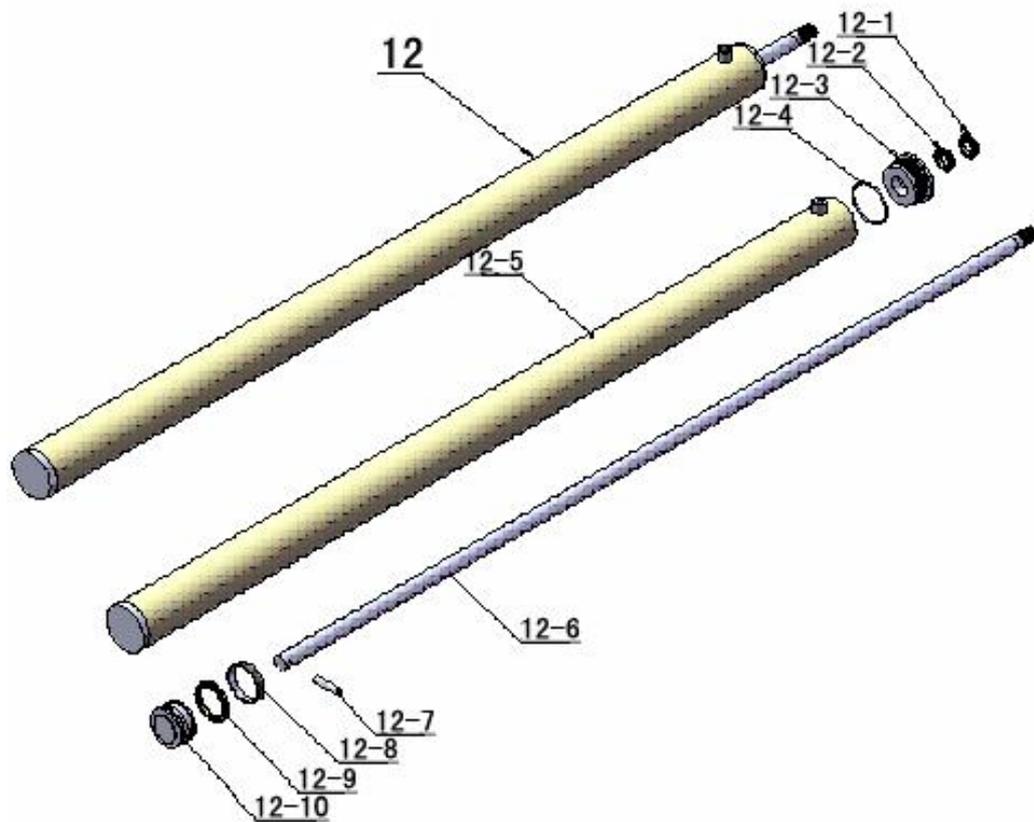


Fig. 35

Parts For Cylinder

| Item | Part# | Description | QTY. | Note |
|-------|-------------|--|------|------|
| 12-1 | 10420059 | Dust ring $\Phi 30 * \Phi 38 * (5 \sim 6.5)$ | 1 | |
| 12-2 | 10420060 | Y- Ring IDI $\Phi 30 * \Phi 40 * 8$ | 1 | |
| 12-3 | 11420061 | End cover | 1 | |
| 12-4 | 10420062 | O- Ring $\Phi 81.5 * 3.55$ | 1 | |
| 12-5 | 1004546001A | Cylinder components | 1 | |
| 12-6 | 1104546002 | Piston Rod | 1 | |
| 12-7 | 11420065 | Cylindrical pin | 1 | |
| 12-8 | 10420066 | Support Ring $\Phi 74 * \Phi 80 * 15 * 3$ | 1 | |
| 12-9 | 10420067 | Y- Ring OSI $\Phi 70 * \Phi 80 * 6$ | 1 | |
| 12-10 | 11420068 | Piston | 1 | |

4.2 CROSS BEAM (10410003/10410006)

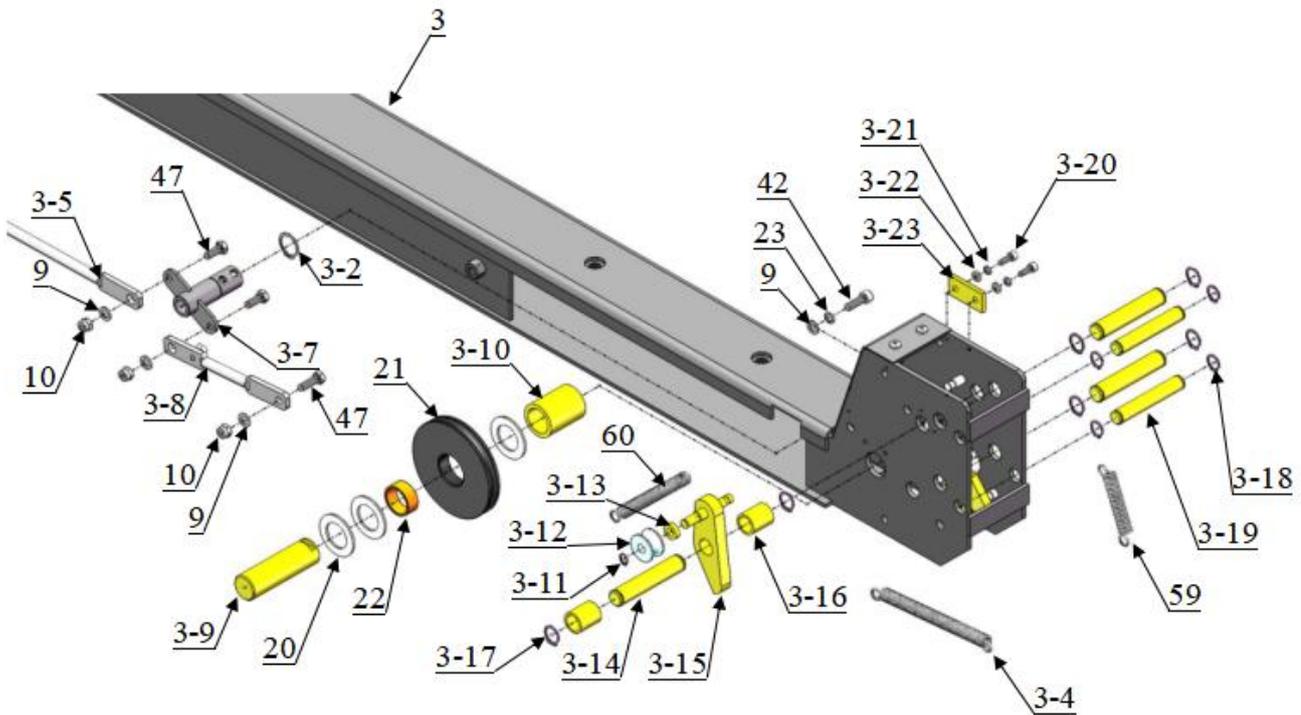


Fig.36

Parts For cross beam

| Item | Part# | Description | QTY. | Note |
|------|----------------|--|--------|------|
| 3-2 | 10206032 | Snap Ring $\phi 25$ | 2 | |
| 3-3 | 10410099 | Spring $\phi 14 * \phi 2.5 * 100$ | 2 | |
| 3-5 | 1104542008-01 | Connecting bar for safety lock | 2 | |
| 3-7 | 1104572003A | Safety lock rotated device assy. | 2 | |
| 3-8 | 1104542011A-01 | Connecting bar assy. for safety lock | 2 | |
| 3-9 | 1104542006-01 | Pulley Bush $\phi 30 * 100$ | 4 | |
| 3-10 | 1104542007 | Pulley pin sleeve $\phi 40 * 4 * 51.5$ | 4 | |
| 3-11 | 10209010 | Snap ring $\phi 10$ | 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 each | |
| 3-16 | 11420172 | Pin Bush For Slack-cable safety lock | 8 | |
| 3-17 | 10206019 | Snap ring $\phi 19$ | 24 | |
| 3-18 | 10420037 | Snap ring $\phi 16$ | 16 | |
| 3-19 | 11420038 | Pin $\phi 16 * 98$ | 8 | |
| 3-20 | 10420138 | Socket Bolt M6*16 | 8 | |
| 3-21 | 10209149 | Lock washer $\phi 6$ | 8 | |
| 3-22 | 10420045 | Washer $\phi 6$ | 8 | |
| 3-23 | 11420044 | Stop block | 4 | |
| | | | | |

4.3 Manual Power Unit (071103)

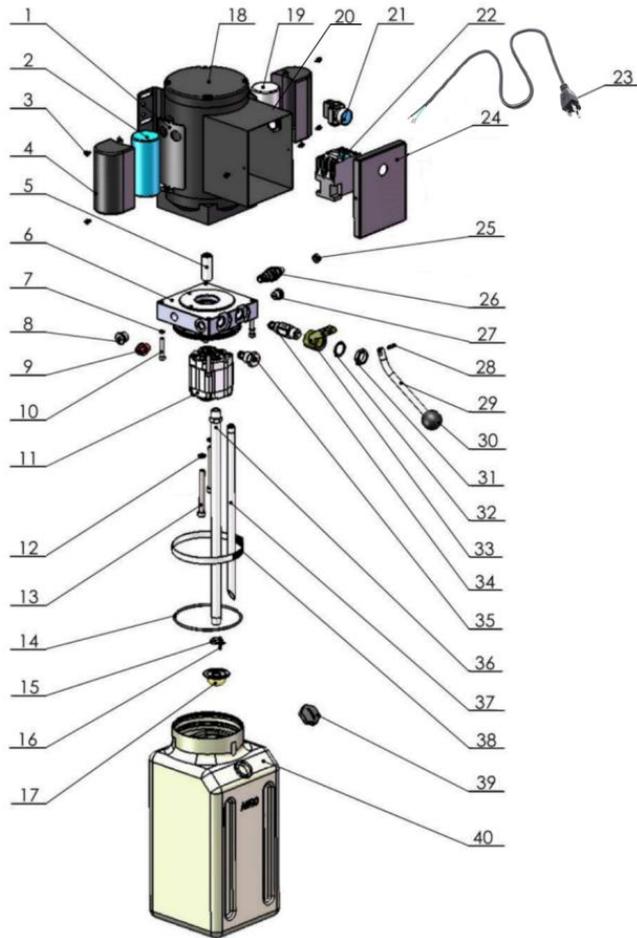


Fig. 37

Parts list for 110V/60Hz, Single Phase

| Item | Part No. | Description | Qty |
|------|----------|--------------------------------|-----|
| 1 | 81400180 | Rubber Pad | 2 |
| 2 | 80101034 | Starting capacitor | 1 |
| 3 | 10420148 | Cup head bolt with washer | 1 |
| 4 | 81400527 | Protective cover for capacitor | 6 |
| 5 | 81400363 | Motor Connecting Shaft | 1 |
| 6 | 80101013 | Manifold block | 1 |
| 7 | 10209149 | Lock Washer | 4 |
| 8 | 81400276 | Iron plug | 1 |
| 9 | 81400259 | Red rubber plug | 1 |
| 10 | 85090142 | Socket bolt | 4 |
| 11 | 81400312 | Gear pump | 1 |
| 12 | 10209034 | Lock Washer | 2 |
| 13 | 81400295 | Socket bolt | 2 |
| 14 | 81400365 | O ring | 1 |
| 15 | 10209152 | Ties | 1 |
| 16 | 85090167 | Magnet | 1 |
| 17 | 81400290 | Filter | 1 |
| 18 | 81400412 | Steel Motor | 1 |
| 19 | 80101035 | Running capacitor | 1 |

| | | | |
|----|----------|--------------------------|---|
| 20 | 81400530 | Motor terminal box | 1 |
| 21 | 10420070 | Switch button | 1 |
| 22 | 81400559 | AC contactor | 1 |
| 23 | 80101039 | America wire and plug | 1 |
| 24 | 81400528 | Motor terminal box cover | 1 |
| 25 | 81400560 | Throttle valve | 1 |
| 26 | 81400266 | Relief valve | 1 |
| 27 | 81400284 | Socket iron plug | 1 |
| 28 | 81400452 | Hair pin | 1 |
| 29 | 81400451 | Release valve handle | 1 |
| 30 | 10209020 | Plastic ball | 1 |
| 31 | 81400421 | Release valve nut | 1 |
| 32 | 81400422 | Shim | 1 |
| 33 | 81400449 | Valve Seat | 1 |
| 34 | 81400567 | Release Valve | 1 |
| 35 | 80203001 | Check Valve | 1 |
| 36 | 81400375 | Oil suction pipe | 1 |
| 37 | 81400376 | Oil return pipe | 1 |
| 38 | 81400364 | Clamp | 1 |
| 39 | 81400263 | Oil tank cap | 1 |
| 40 | 81400275 | Oil tank | 1 |

Illustration of hydraulic valve for hydraulic power unit

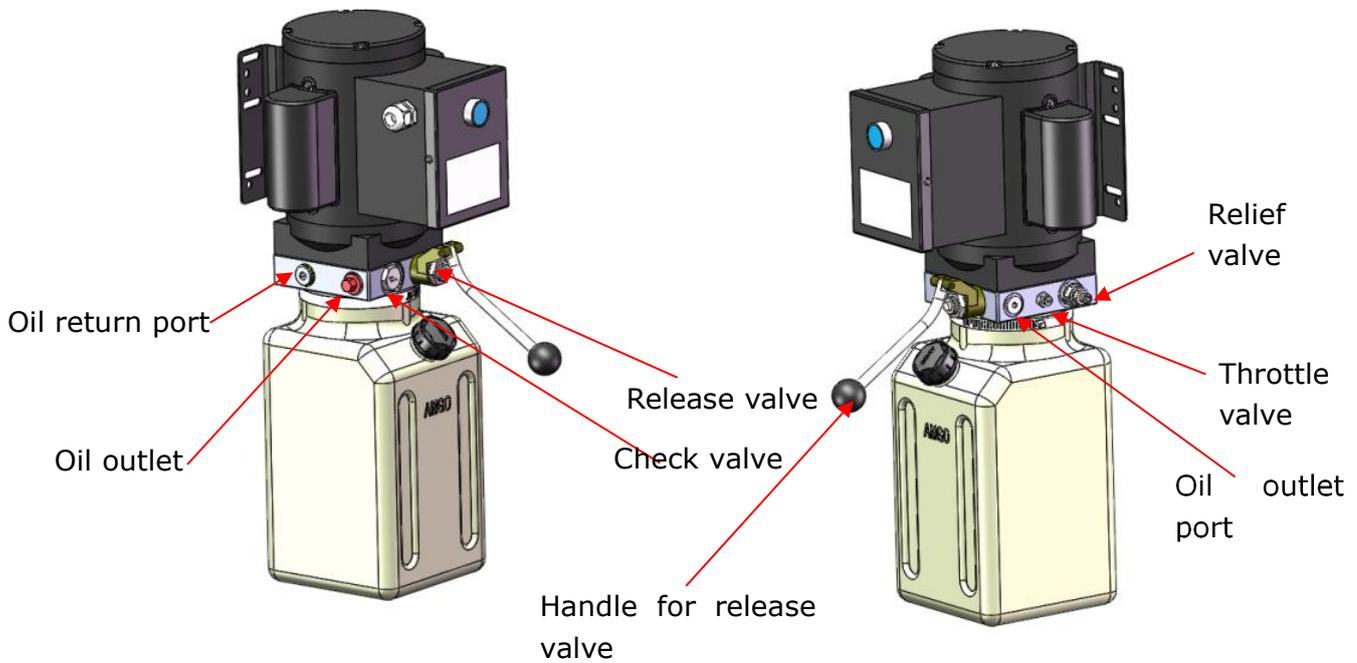


Fig. 38

V. TEST RUN

1. Fill the reservoir with Hydraulic Oil (**Note:** In consideration of Power Unit's durability, please use **Hydraulic Oil 46#**).
2. Press the control button on the power unit 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 the release valve handle on the power unit to lock the cross-beam on the safety ladders, and then adjust the platforms to be level by adjusting the nuts of safety ladders. 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 plastic slider of cross-beam, make sure the plastic slider can be slid in the column smoothly. Do not tighten too much of the sliding block.
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.

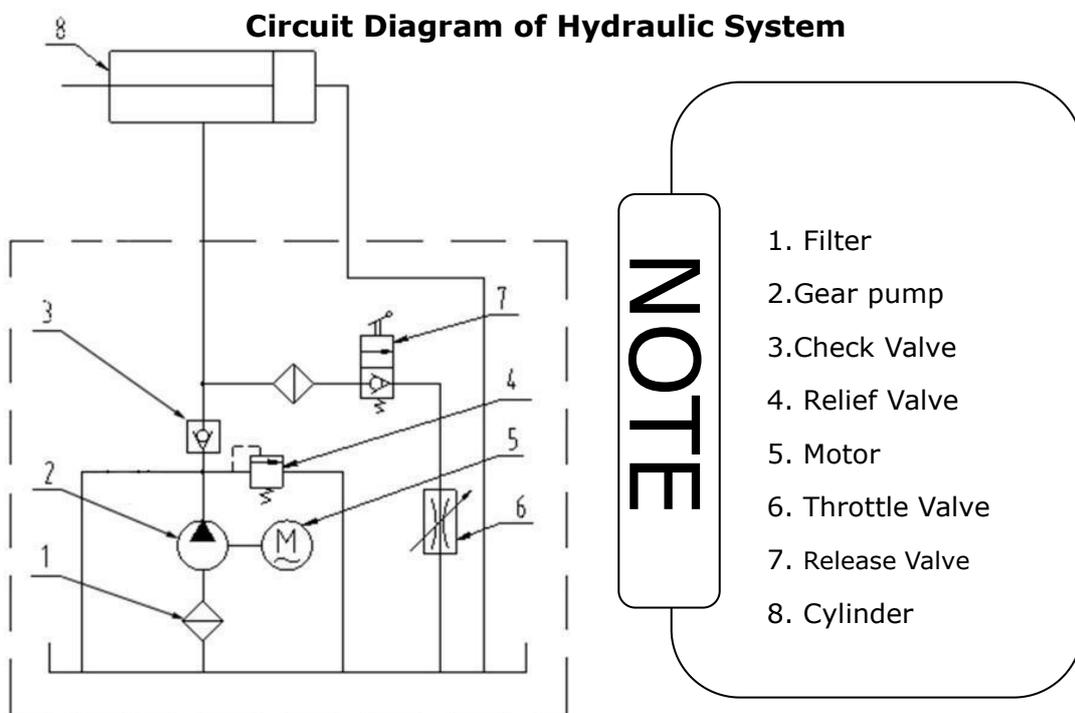


Fig. 39

VI. OPERATION INSTRUCTIONS

To lift vehicle

1. Keep clean of environment near the lift.
2. Drive vehicle to the platform and put on the brake.
3. Take off the drive-in ramp, install rear wheel stop plates to the drive-in ramp position.
4. Turn on the power and press the control button, raise the lift to the working position.

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

5. Press the release valve handle to lock the lift in the safety position. Make sure the safety device is locked at the same height.

To lower vehicle

1. Be sure the clearance of around and under the lift, only leaving operator in lift area.
2. Press the control button, the lift will be raised for 3-5 seconds, and then press the safety release handle, make sure the safety device released, press the release valve handle by the other hand, then the lift starts being lowered automatically.
3. Drive away the vehicle when the lift is lowered to the lowest position. Take off the rear wheel stop plates and install drive-in ramp, then left the lift.
4. Turn off the power.

VII. MAINTENANCE SCHEDULE

Monthly:

1. Lubricate cable with lubricant;
2. Check all cable connection, bolts and pins to insure proper mounting;
3. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
4. Lubricate all rollers, safety devices with 90wt. gear oil or equivalent.

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 to insure level lifting.
3. Check columns for plumbness.

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 | <ol style="list-style-type: none"> 1. Button does not work 2. Wiring connections are not in good condition 3. Motor burned out 4. AC contactor burned out | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 1. Oil line is jammed 2. Motor running on low voltage 3. Oil mixed with Air 4. Pump leaks 5. Overload lifting | <ol style="list-style-type: none"> 1. Clean the oil line 2. Check electrical system 3. Fill tank 4. Repair or replace pump 5. Check load |
| Lift cannot lower | <ol style="list-style-type: none"> 1. Safety device are not in activated 2. Release valve damaged | <ol style="list-style-type: none"> 1. Operate again 2. Repair or replace |

IX. SCRAPING OF EQUIPMENT

Once the equipment is unusable and needs to be scrapped, please follow the local laws and regulations.



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