



Original

Installation And Service Manual

FOUR-POST LIFT Model: PRO-12SX PRO-12ASX

Cargo Claims

If there is any missing or damaged product during transportation, the buyer must notate on the shipping paperwork or refuse the shipment. NOTATE ALL DAMAGE OR REFUSE DAMAGED SHIPMENT!

DANGER

Read the entire contents of this manual before using this product. Failure to follow instructions and safety precautions could result in serious injury or even death. Make sure all other operators also read this manual. Keep this manual near the machine so that it can be seen by all users. By proceeding with installation and operation, you agree that you are fully understand the contents of this manual and take full responsibility for the use of the product.


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Explanation of the safety warning symbols used in this manual

 **DANGER** Risk of death or injury

 **WARNING** Dangerous or unsafe practices that may result in death or injury

 **CAUTION** Dangerous or unsafe practices that may result in personal injury,
product damage or property damage

ATTENTION Conditions that may result in damage to products or property

PROFILE

The four post lift is a commonly used vehicle repair and maintenance tool that uses a hydraulic or electric system that can lift the car up to a certain height so that the vehicle can be placed in a suitable position for inspection and repair. Car lifts can be divided into pneumatic and electric, which have the characteristics of safe and reliable, simple structure and quick installation.

This instruction manual is specially prepared for you. Your new lift is the product of over a decade of continuous research, testing and development and is the most technologically advanced lift on the market today.

Please make sure to read through this manual before operating the lift.

Record the information on the nameplate label here:

Model No.: _____

Serial No.: _____

Manufacturer date: _____

WARRANTY

The warranty period for the steel structure part of new car lift is 5 years; hydraulic components, bronze bushings, slider blocks and plastic parts are warranty for 3 years; electrical components and cables are warranty for 2 years. Rubber pads are without warranty. During the warranty period, the manufacturer will repair or replace the defective parts free of charge including shipping costs.

This warranty does not cover damage caused by normal wear and tear, improper use, damage in transit, or damage caused by lack of maintenance.

This warranty is unique and supersedes what is expressed and implied in all other warranties. The manufacturer shall not be liable for any particular, indirect or accidental damage resulting in breach of or delay in the execution of the warranty. The manufacturer reserves the right to design and improve the product and has no obligation to make notice of the changes in advance.

The product warranty based on the above clause is based on the model number and serial number of the equipment. This information must be provided in conjunction with all warranty information at the time of service and warranty.

SAFETY WARNING LABEL

**WARNING**



Please read the user manual before operation.



Never allow unauthorized personnel near the equipment



Always wear protective shoes and mind your feet during lowering



Please mind your hands during operation.



Keep away from the equipment during operation



Use wheel chock to avoid vehicle moving.



Please lock the safety device before repairing the vehicle.



Please run away quickly from any falling objects.

PLEASE READ THE PRECAUTIONS CAREFULLY


No.71030135

IMPORTANT SAFETY INSTRUCTIONS

In order to properly maintain your product and ensure operator safety, it is the responsibility of the product owner to read and follow these instructions!

1. Ensure product installation full complies with all applicable local and national rules, ordinances and regulations;
2. Ensure that all operators are properly trained, know how to operate the unit safely, and are properly supervised;
3. Do not operate the lift until you are sure all parts are in place and operating correctly;
4. Keep your hands and feet away from the machine. Keep hands and feet away from any moving parts. Keep your feet away from the lift as it descends and avoid pressing on pointed objects;
5. Keep the work area clean. A cluttered workspace can lead to injuries;
6. The machine is only approved for indoor installation and use. Outdoor installation is prohibited;
7. Only trained operators are allowed to handle the lift machine. All untrained persons must stay away from the workplace. Never allow untrained persons to handle or operate the machine;
8. Use the lift properly. Use the lift in the correct way;
9. Warning! Keep persons and objects from the lift when lifting the a vehicle;
10. If the vehicle is at risk of falling, make sure no one is around the lift;
11. Before preparing to approach or service the vehicle, ensure that the safety device is in effect;
12. Dress appropriately when operating machines, and consider wearing non-slip steel-toe shoes for safety;
13. Beware of electric shock. In order to protect the operator from electric shock, the lift in use must be grounded. Do not connect the green wire to the terminal. This is the ground wire;
14. Danger! The power supply used in this type of lift has high voltage. Please disconnect the power supply before any circuit repair. Unplug in case the power supply is accidentally switched on during maintenance;
15. Warning! There is a risk of explosion. There are parts in the equipment that produce arc light and spark. Do not operate near flammable gas. This machine should not be placed in the lounge or basement;
16. Maintain with care. Keep the machine clean for better and safer operation. Perform proper lubrication and maintenance procedures according to the manual. Keep handles or buttons clean, dry, and free of oil;
17. Stay alert. Use common sense to observe what you are doing and stay alert;

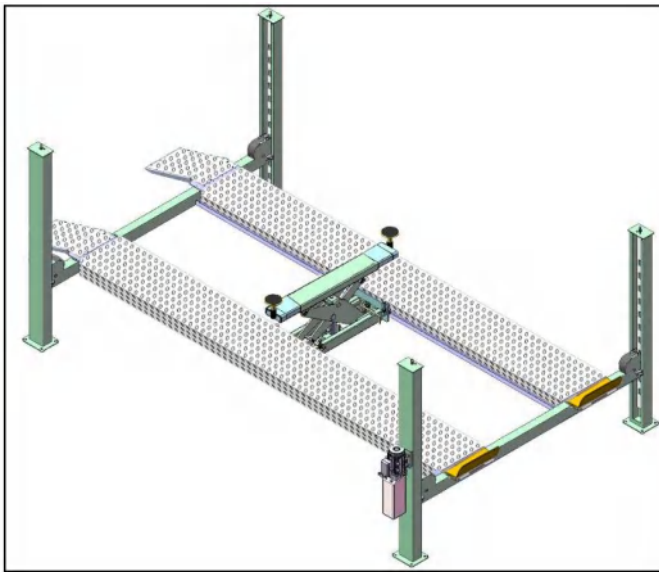
18. Check for damaged parts. Check for adjustments to moving parts, damage to parts, or anything that may affect their operation. Do not use the machine if the parts are damaged;
19. Do not remove relevant safety parts from the machine. Do not use a lift if it is damaged or missing;
20. Operate the lift only at temperature between 5°C to 40°C (41°F to 104°F).

 **DANGER** Be very careful when installing, operating, maintaining or repairing this equipment. Failure to comply may result in property damage, product damage, injury or (in very rare cases) death. Ensure that only authorized personnel operate the equipment. All repairs must be carried out by an authorized technician. Do not modify the machine, this voids the warranty and increases the probability of personal injury or property damage. Ensure to read and follow this instructions on the label.

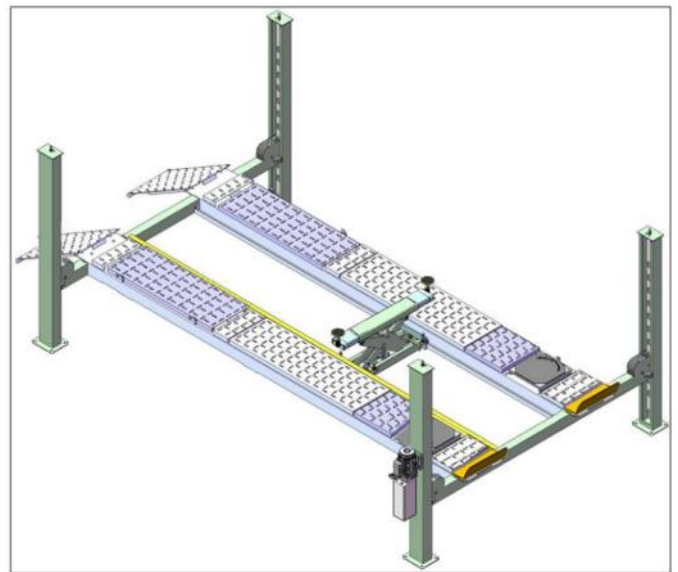
I. PRODUCT FEATURES AND SPECIFICATIONS

FEATURES

- Manual-air control operation system.
- Mechanical self-lock and air-driven safety release.
- Manual hydraulic power system, cable-driven.
- Non-skid diamond platforms.
- Adjustable platform and adjustable safety lock ladders.
- Optional Jack: With hand pump/Air-operated hydraulic pump/Controlled by power unit.
- Optional Turnplates: (Only for PRO-12ASX)



PRO-12SX
Fig.1



PRO-12ASX
Fig.2

MODEL PRO-12S(AS) SPECIFICATIONS

Model	Lifting Capacity	Lifting Time	Overall Length (Incl. Ramps)	Overall Width	Width between columns	Max. Lifting Height	Max. Locking height	Overall Height	Minimum Height
PRO-12SX	12,000lbs	45S	232 5/8"	132 1/8"	118 1/8"	74 7/16"	70 7/8"	86"	6 11/16"
PRO-12ASX	12,000lbs	45S	232 5/8"	132 1/8"	118 1/8"	76 3/8"	72 13/16"	86"	8 11/16"

Model	Max. height underneath runways	Max. Locking height underneath runways	Drive-Thru Clearance	Width between runways		Outside edge of runways		Motor
				Standard Width	Adjustable width range	Standard Width	Adjustable width range	
PRO-12SX	68 7/8"	65 3/4"	104 3/16"	43 5/16"	35 7/16"~53 3/4"	83 5/16"	75 7/16"~93 3/4"	2.0HP
PRO-12ASX	68 7/8"	65 3/4"	104 3/16"	43 5/16"	35 7/16"~53 3/4"	83 5/16"	75 7/16"~93 3/4"	2.0HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

- ✓ Rotary Hammer Drill ($\Phi 3/4''$)



- ✓ Hammer



- ✓ Level Bar



- ✓ English Spanner (12")



- ✓ Wrench Set (10#, 12#, 13#, 14#, 17#, 19 24#, 30#)



- ✓ Ratchet Spanner with Socket (28#)



- ✓ Carpenter's Chalk



- ✓ Screw Sets



- ✓ Tape Measure (7.5m)



- ✓ Pliers



- ✓ Lock Wrench



- ✓ Socket Head Wrench (3#, 5#, 6#)



Fig. 3

B. Equipment storage and installation requirements.

- 1 . Store the equipment in a dry, non-moldy, non-flammable environment.
- 2 . The lift is generally approved for indoor installation and use. If need outdoor installation, the optional motor protect cover is required.
- 3 . When installing the device, take safety precautions according to the instructions to avoid device damage.
- 4 . During installation, all parts should be fastened to ensure the stability and smooth operation of the machine.
- 5 . After installation, the whole machine should be checked to make sure that every component is working properly.

C. The equipment should be unload and transfer by forklift. (See Fig.4)



Fig.4

D. SPECIFICATIONS OF CONCRETE (See Fig. 5)

**Specifications of concrete must be adhered to the specification as following.
Failure to do so may result in lift and/or vehicle falling.**

1. Concrete must be thickness 4" minimum and without reinforcing steel bars, and must be dried completely before the installation.
2. Concrete must be in good condition and must be of test strength 3,000psi (210kg/cm²) minimum.
3. Floors must be level and no cracks.

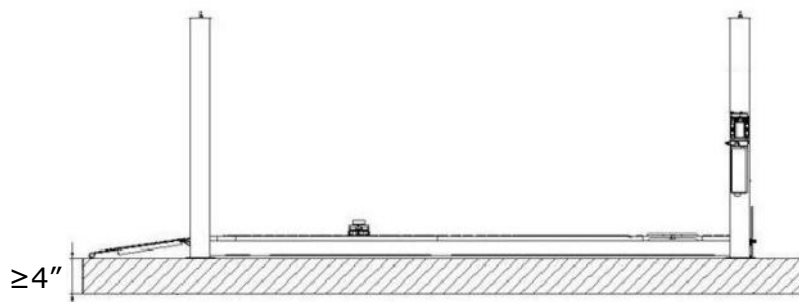


Fig.5

E. AIR SUPPLY

Air pressure requirement: 0.8Mpa, Air line size $\phi 8 \times \phi 6$ and $\phi 6 \times \phi 4$.

F. POWER SUPPLY

1. You are required to use a licensed and qualified electrician for the installation process.
2. The power supply capacity must be more than 3.0HP, with a cord larger than 12AWG, and must be properly grounded.

⚠ DANGER All electrical wiring must be performed by a licensed and certified electrician. Attempting to connect the circuit without proper certification may result in damage to the lift or electrocution, resulting in serious injury or death.

III. STEPS OF INSTALLATION

A. Location of installation

Check and insure the installation location (concrete, layout, space size etc.) is suitable for lift installation.

B. Check the parts before assembly

1. Packaged lift and hydraulic power unit (See Fig. 6).



Fig. 6

2. Open the outer packing carefully (See Fig. 7).

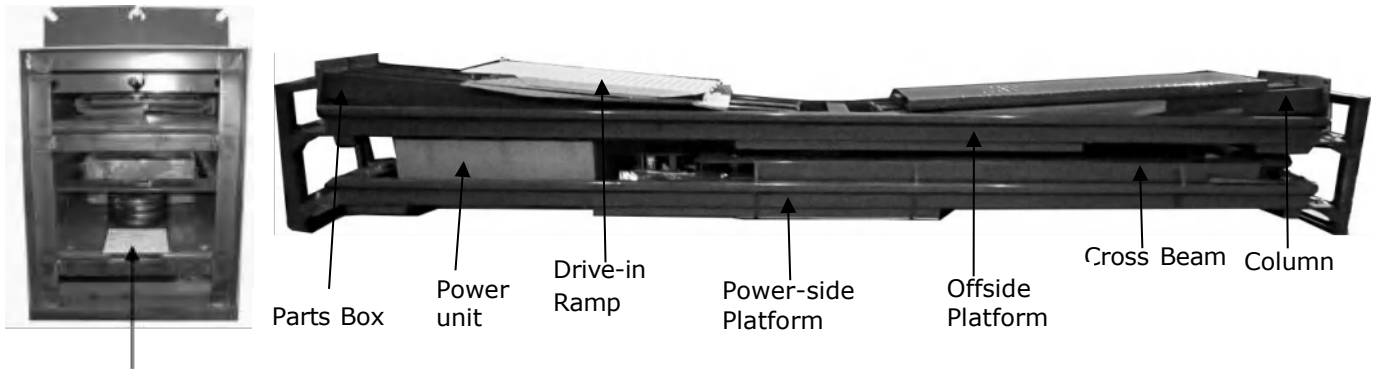


Fig. 7

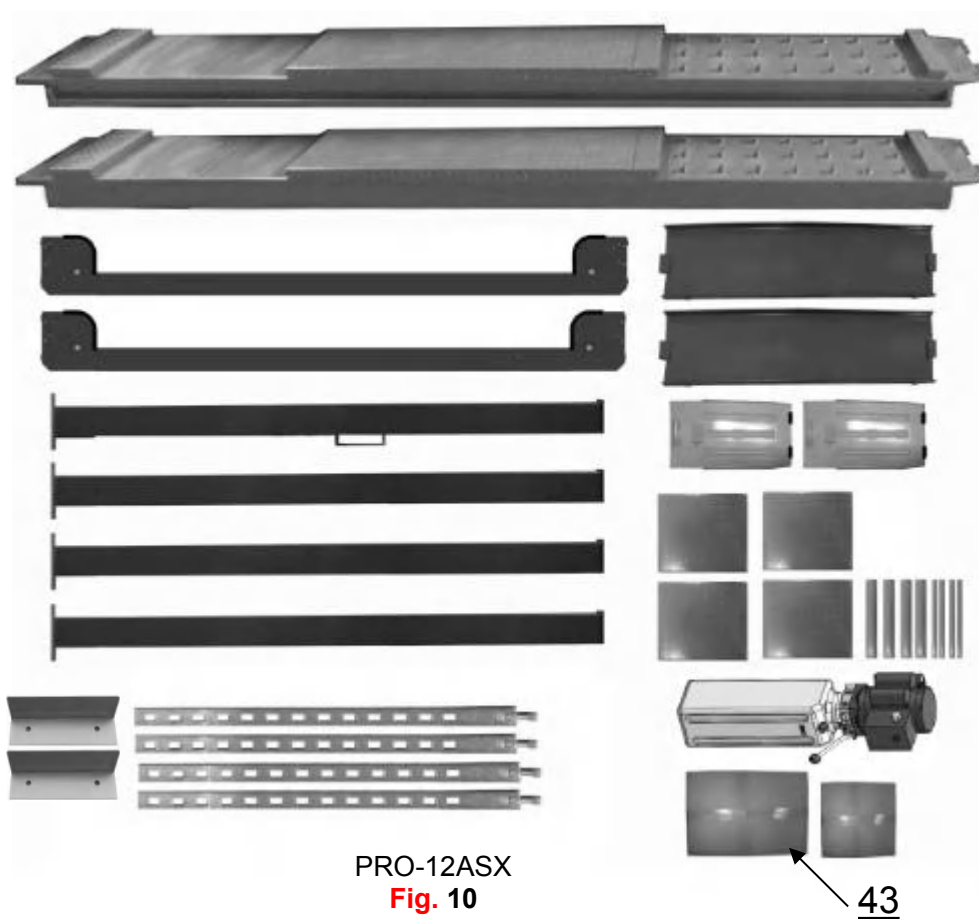
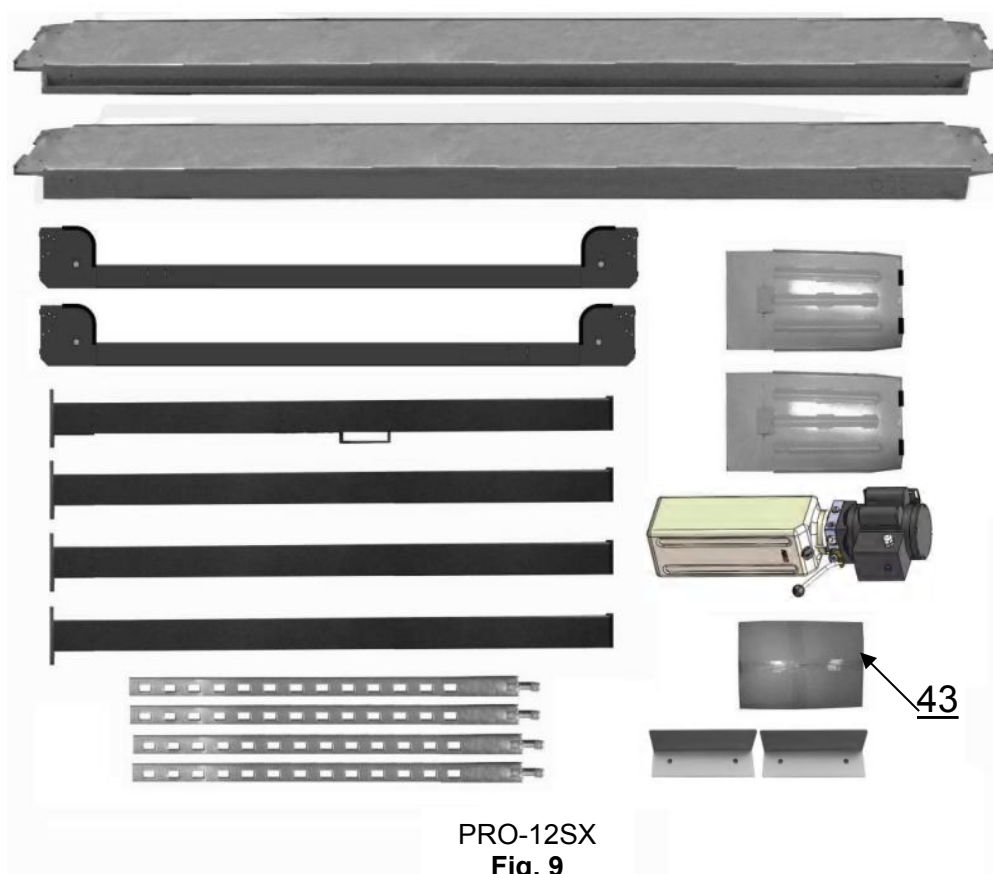
3. Take off the drive-in ramps and columns (See Fig. 8).



Fig. 8

4. Loose the screws of the upper package stand, take off the offside platform, take out the parts(includ power unit) 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. 9, Fig. 10).



6. Open the carton of parts and check the parts according to the parts box list (See Fig. 11).



Fig. 11

7. Check the parts of the parts bag according to the parts bag list (See Fig. 12)

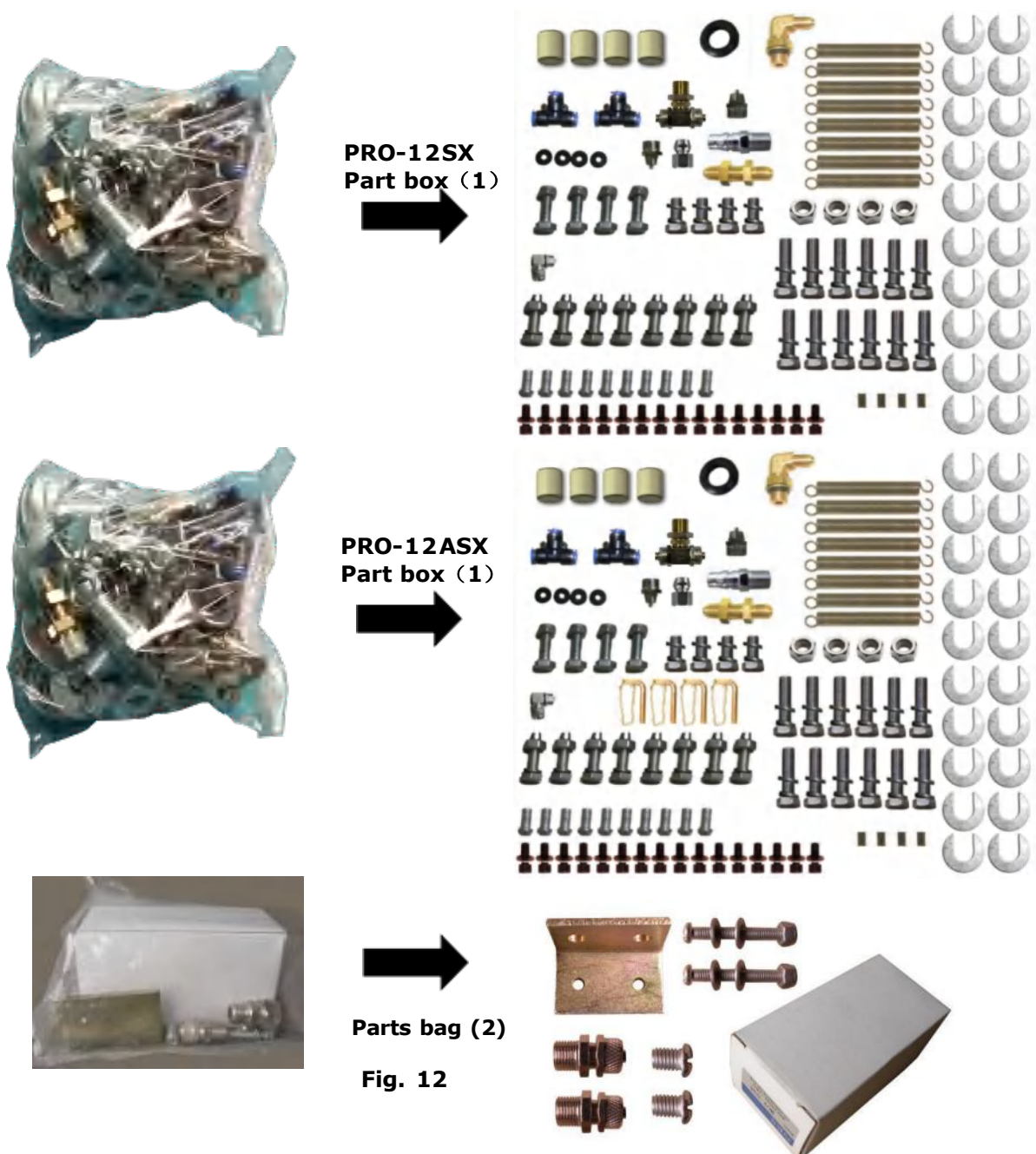


Fig. 12

- C.** 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. 13**).

Note: Reserve space front and behind the installation site.

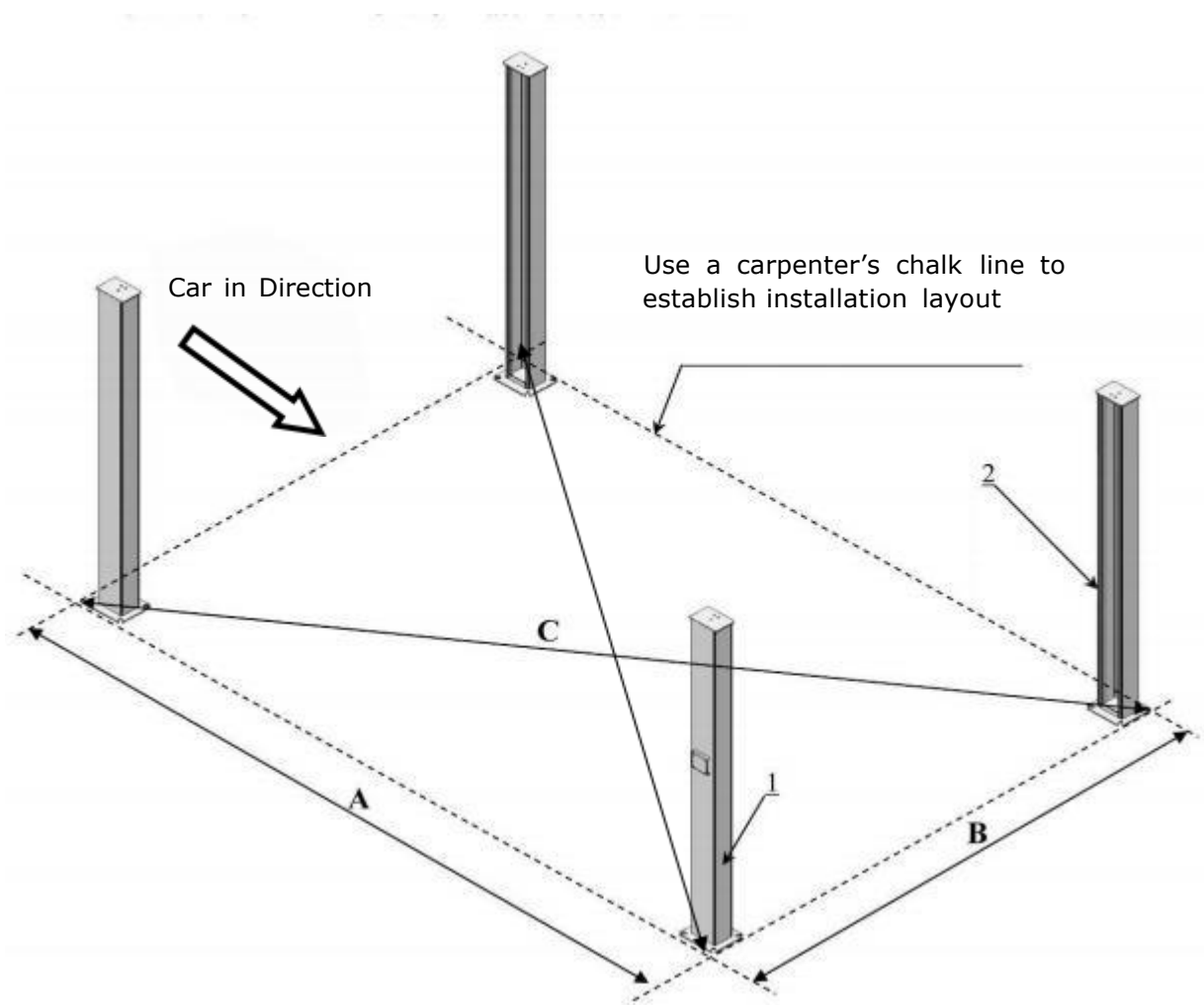


Fig. 13

MODEL	A	B	C
PRO-12SX PRO-12ASX	196-3/4"	132-1/8"	237"

D. Install cross beams (See Fig. 14) .

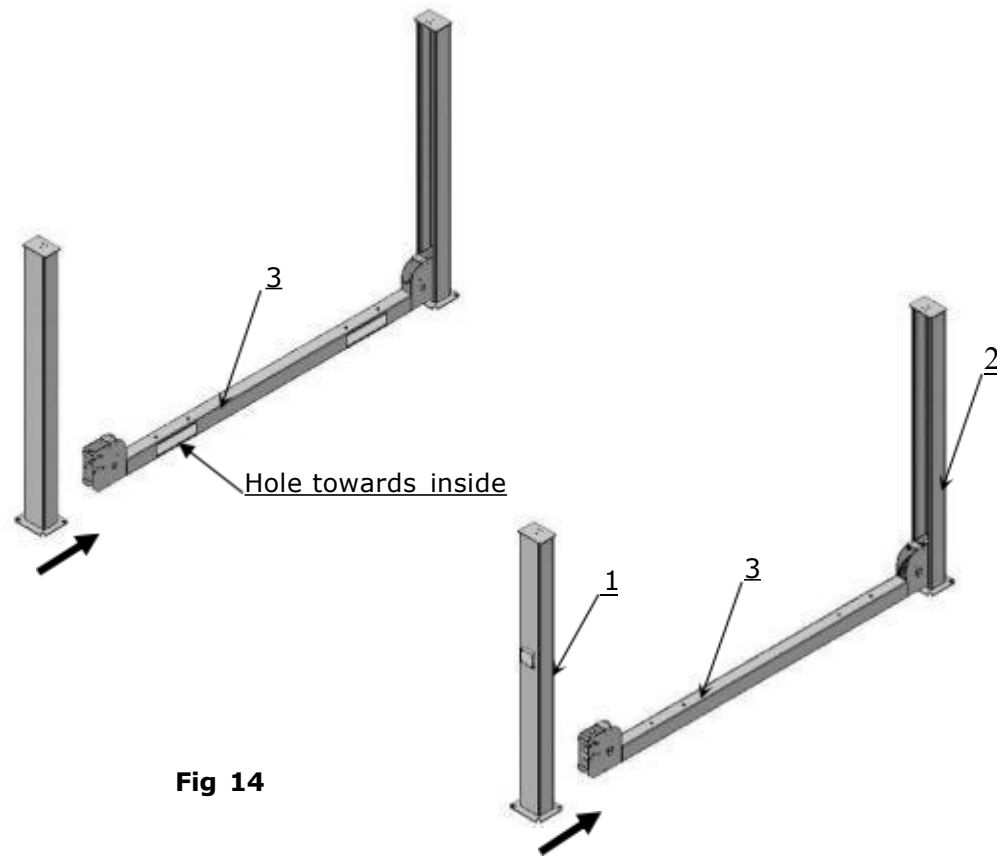
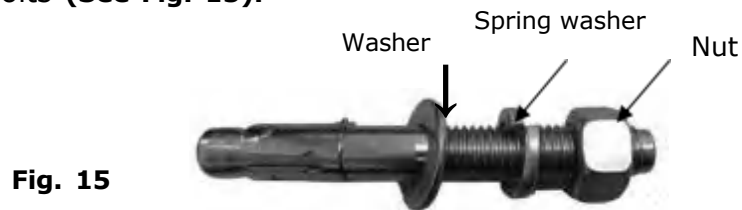


Fig 14

E. Fix the anchor bolts

1. Prepare the anchor bolts (See Fig. 15).



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. 16).

Note: Anchor bolts driven into the ground at least 4"



Fig. 16

F. Install the safety ladders

1. Take off the pulley safety cover and unscrew the four upper nuts of the Safety ladders, and then adjust the four lower nuts to be at the same position, then install the safety ladders (See Fig. 17).

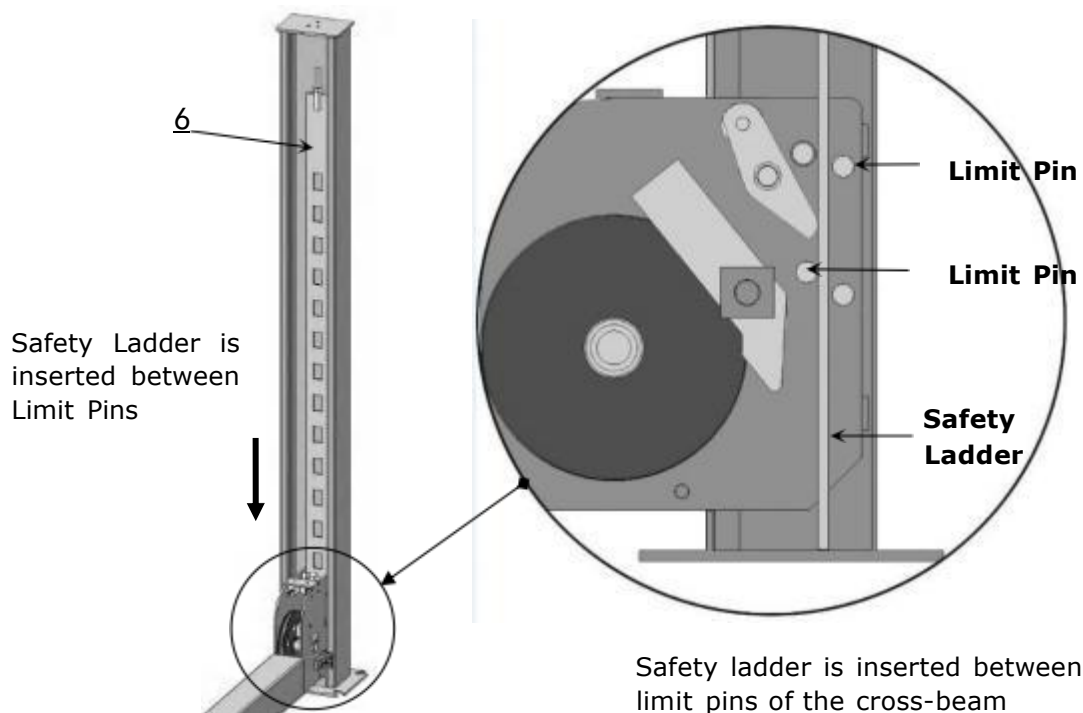


Fig. 17

2. Install safety ladders (**See Fig. 18**).

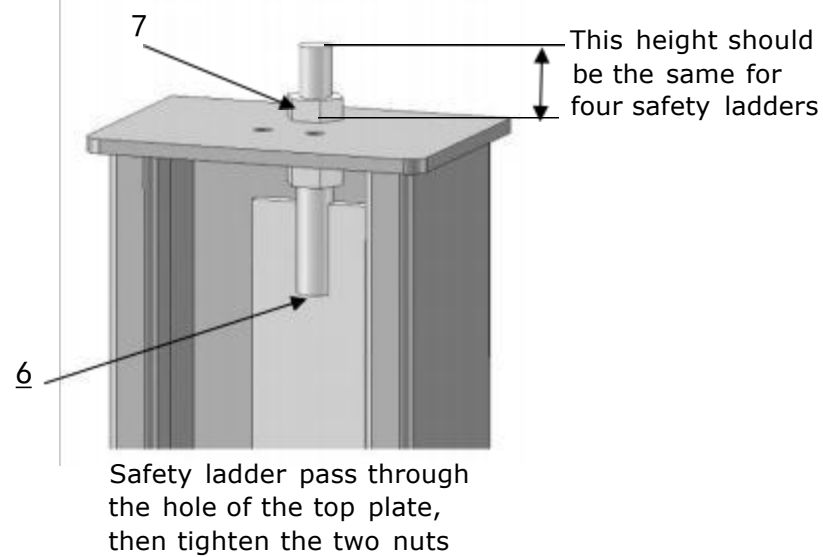


Fig. 18

G. Put the cross beams at the same height (See Fig. 19).

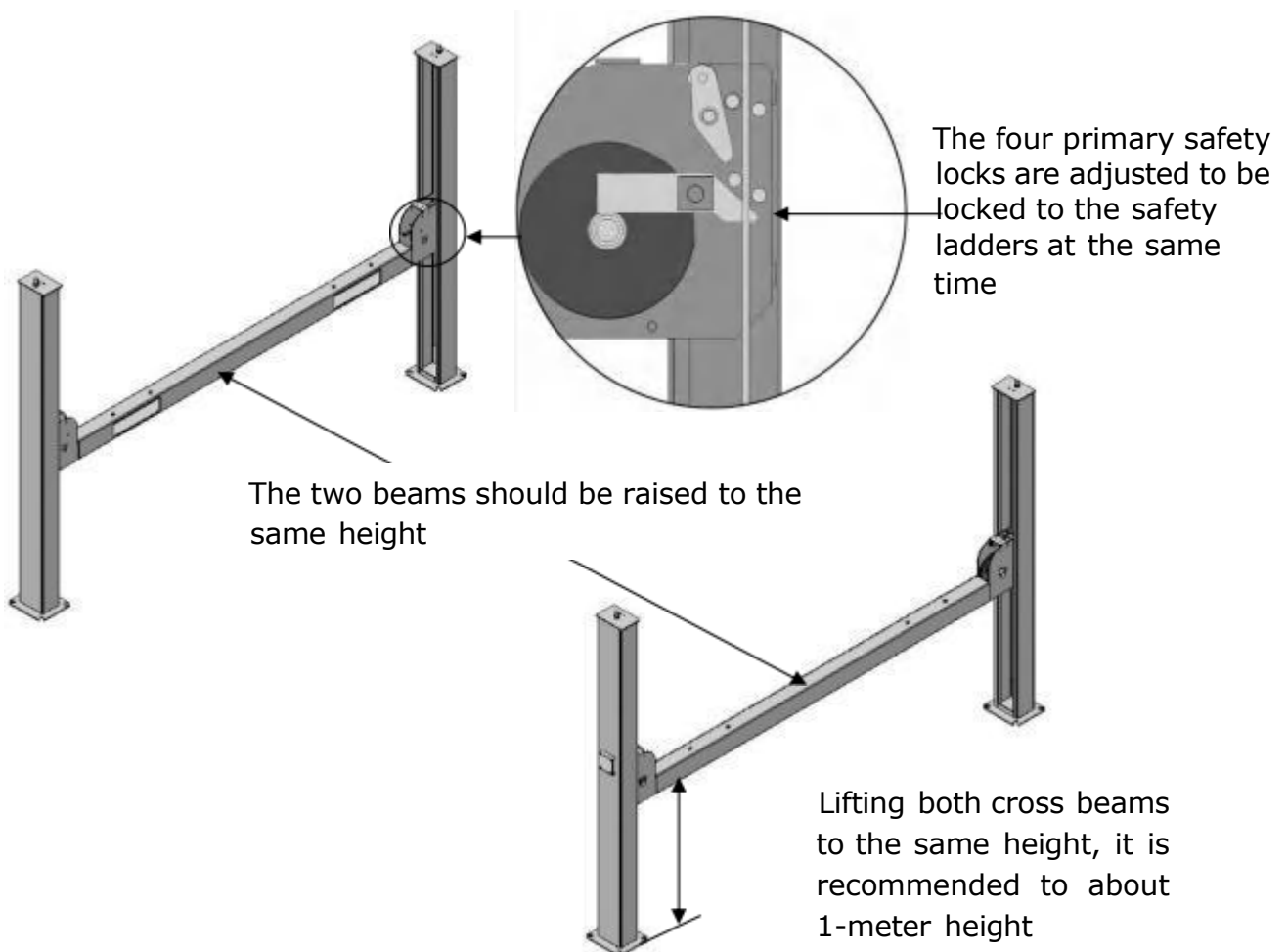
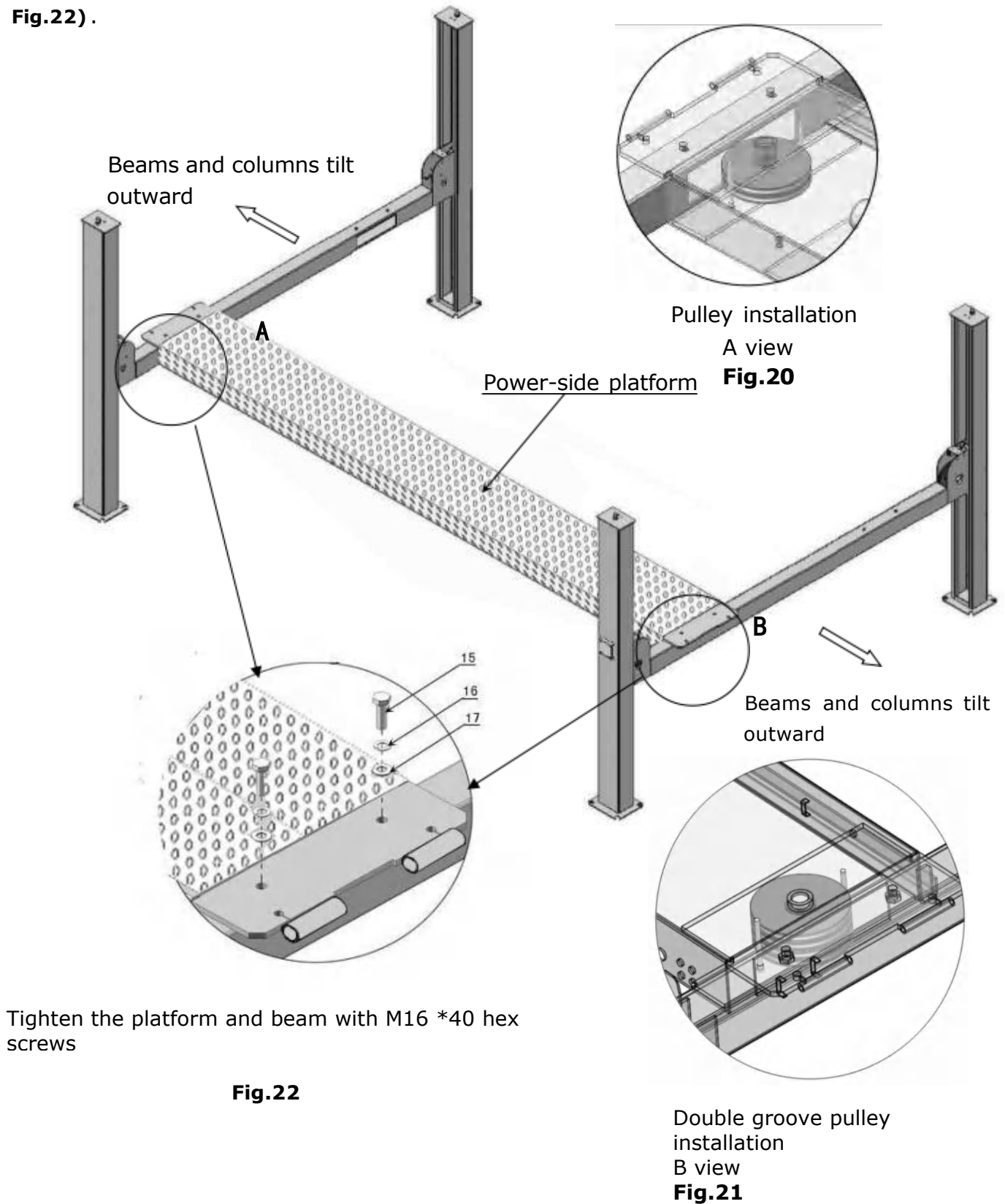


Fig. 19

H. Install power-side platform.

1. Put the power-side platform upon the cross beams by forklift or manual, offset the cross beams to the outside till the pulleys of both platforms can set up into the cross beam (See Fig.20,21), Install the power-side platform and screw up the bolts (See Fig.22) .



2. In the same way, place the off side platform on cross beams, align the holes and tighten with bolts (See Fig. 23).

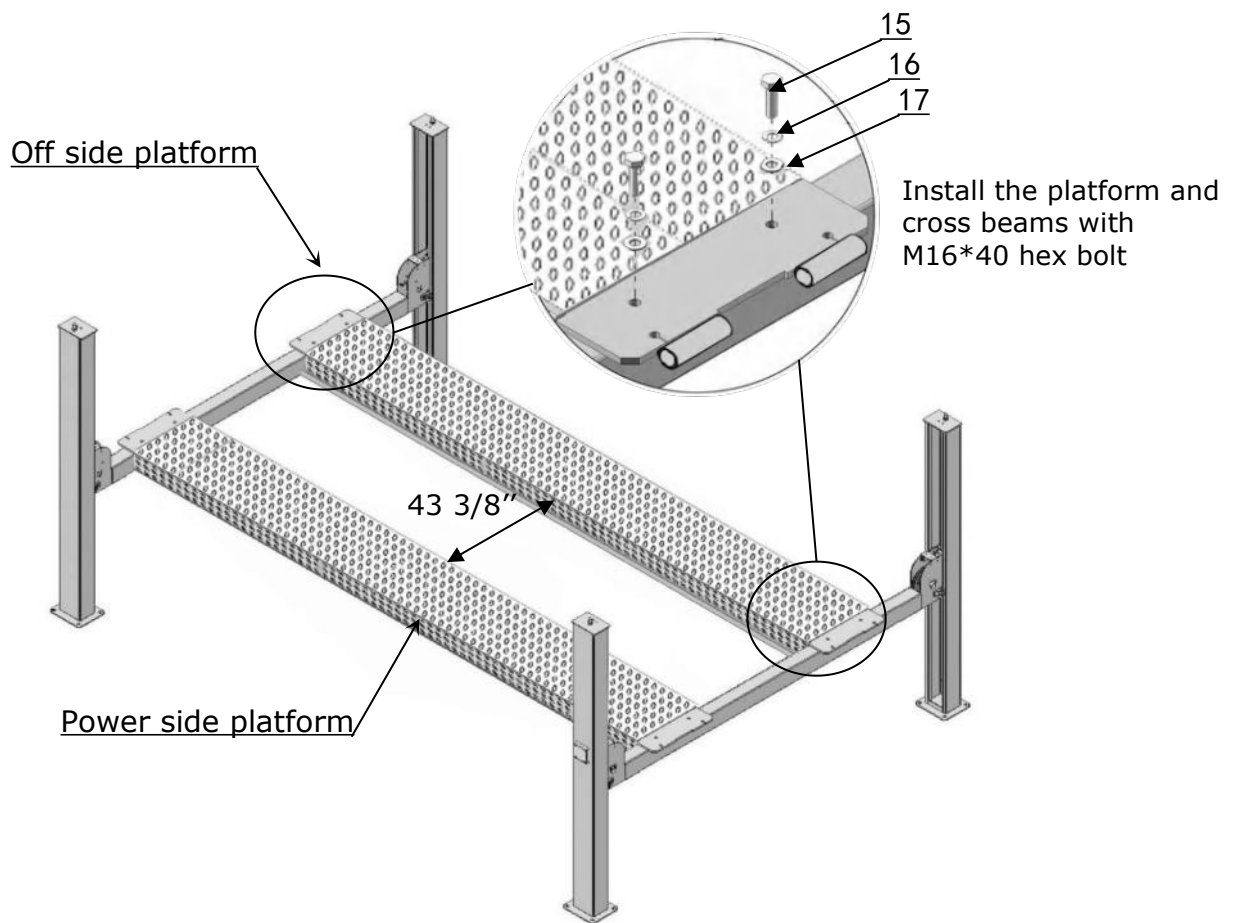


Fig. 23

Note: The standard dimension between platforms is $43 \frac{3}{8}''$. Once it's not suitable for some special vehicles, you can install the lock plates under the two ends of the off side platform, (see fig 24) and remove the bolts that used to fix the platform and cross beams, then the off side platform can be moved to adjust the dimension between platforms.

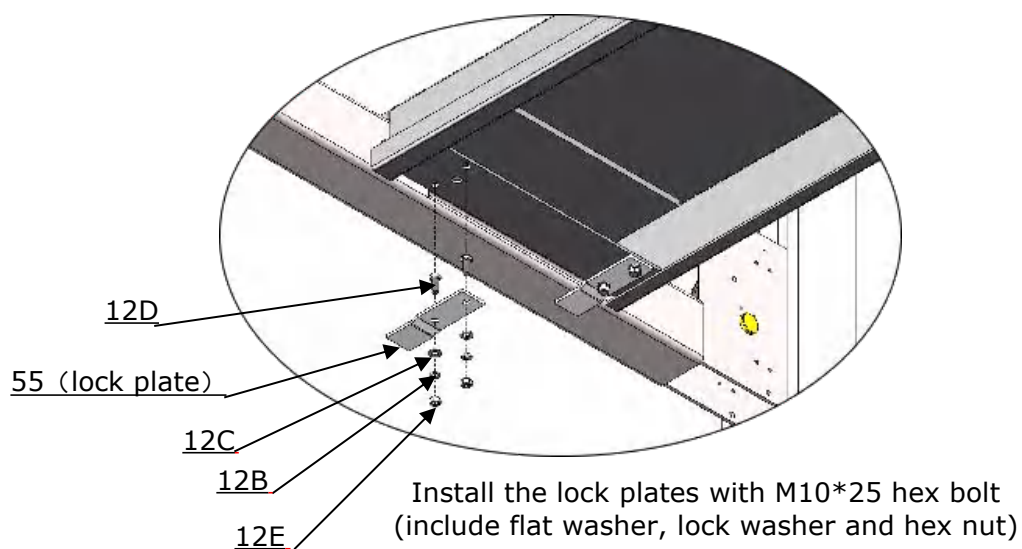


Fig. 24

Dimension adjustment range

Model \ Dimension	Min. Dimension	Max. Dimension
PRO-12SX	35 7/16"	53 3/4"
PRO-12ASX	35 7/16"	53 3/4"

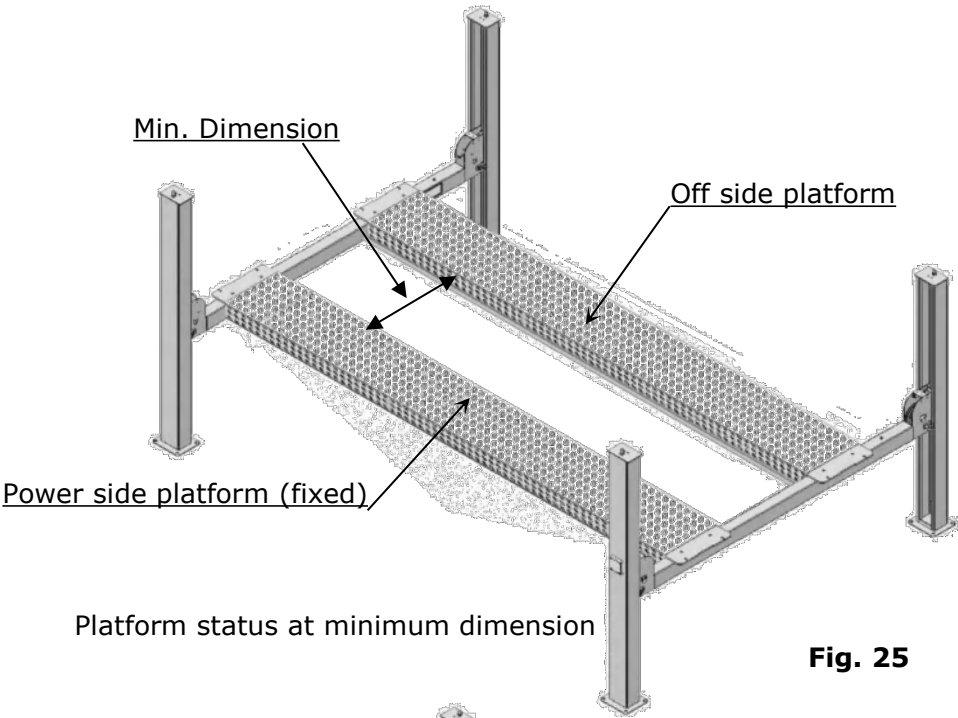


Fig. 25

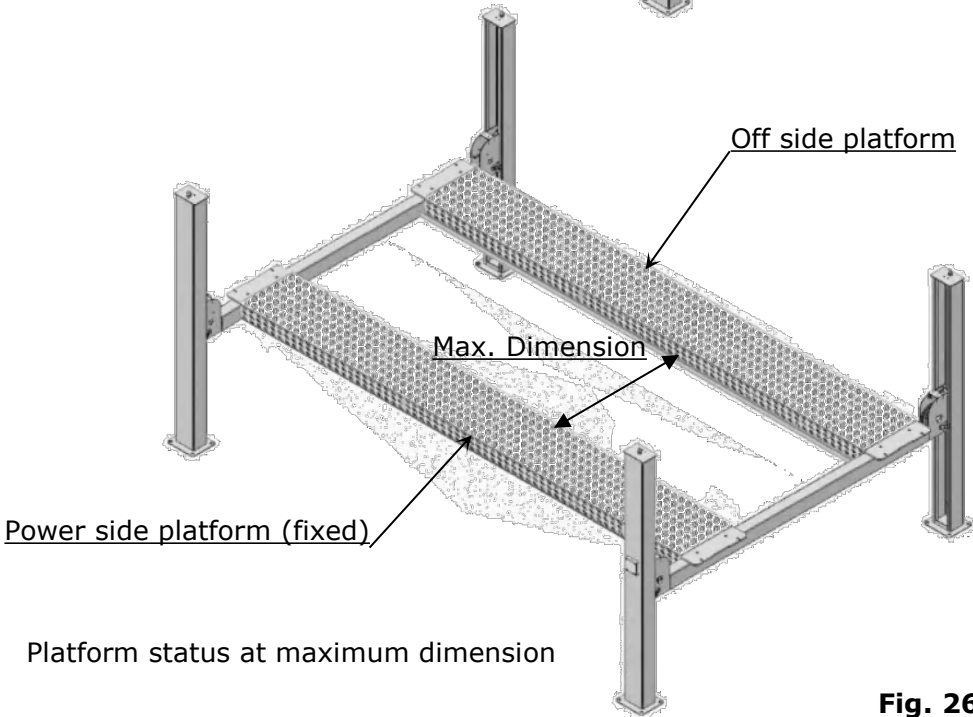
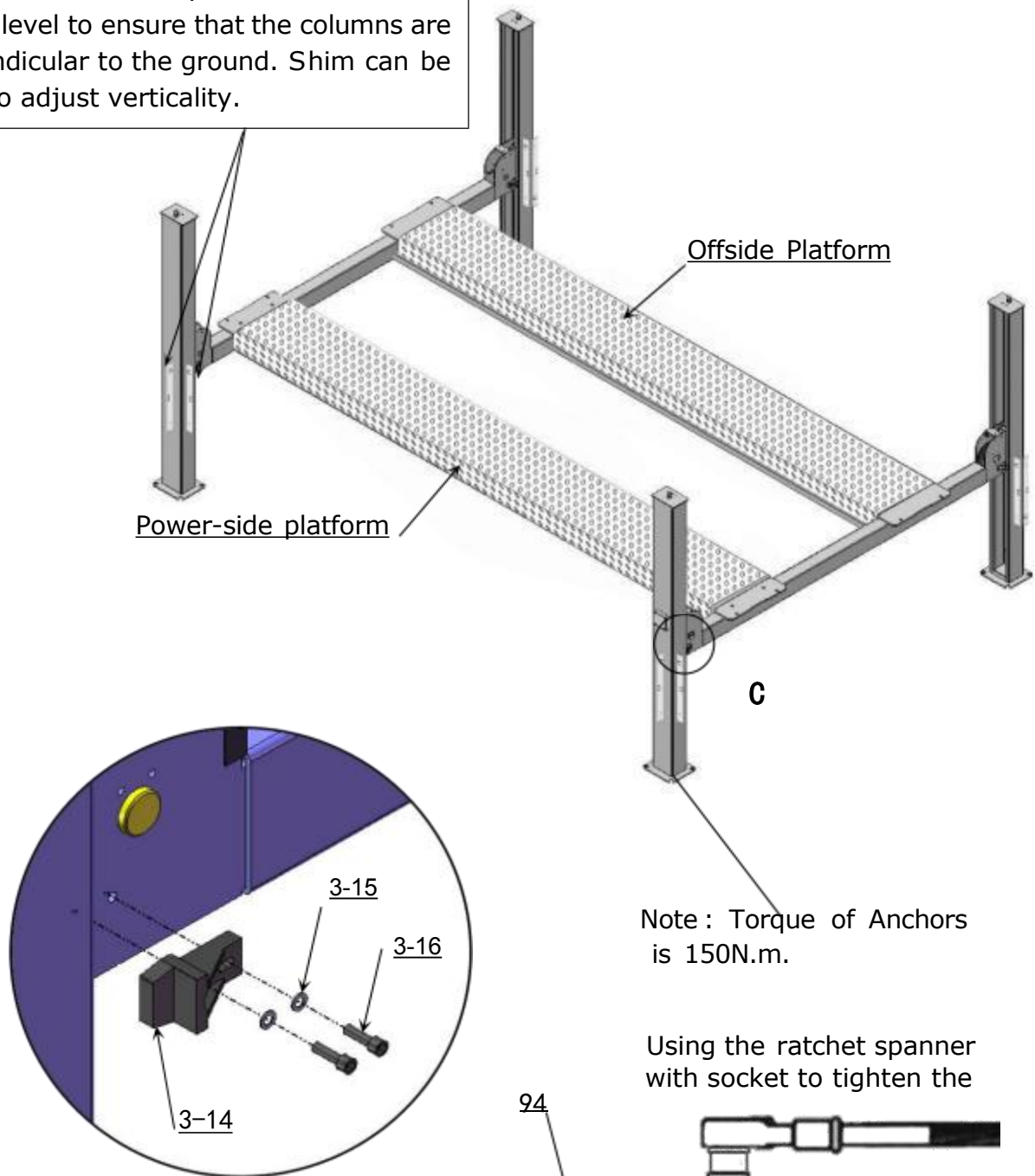


Fig. 26

I. Assembly offside platform and slider block, (See Fig. 27) check the plumbness of columns with level, adjusting with the shims if not, and then tighten the anchor bolts (See Fig. 28).

Measure the verticality of the four columns with a level to ensure that the columns are perpendicular to the ground. Shim can be used to adjust verticality.



Install the slider block
C View
Fig. 27

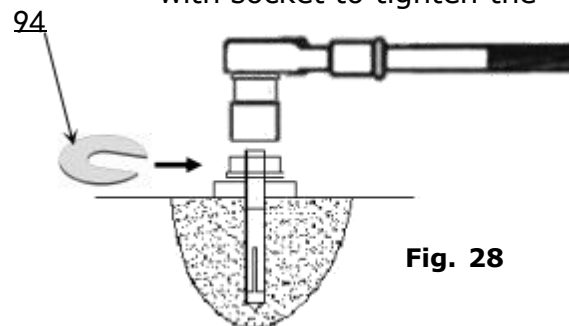


Fig. 28

J. Illustration for cable installation (See Fig. 29).

1. Pass through the cables from the platform to the columns according to the number of the cables.

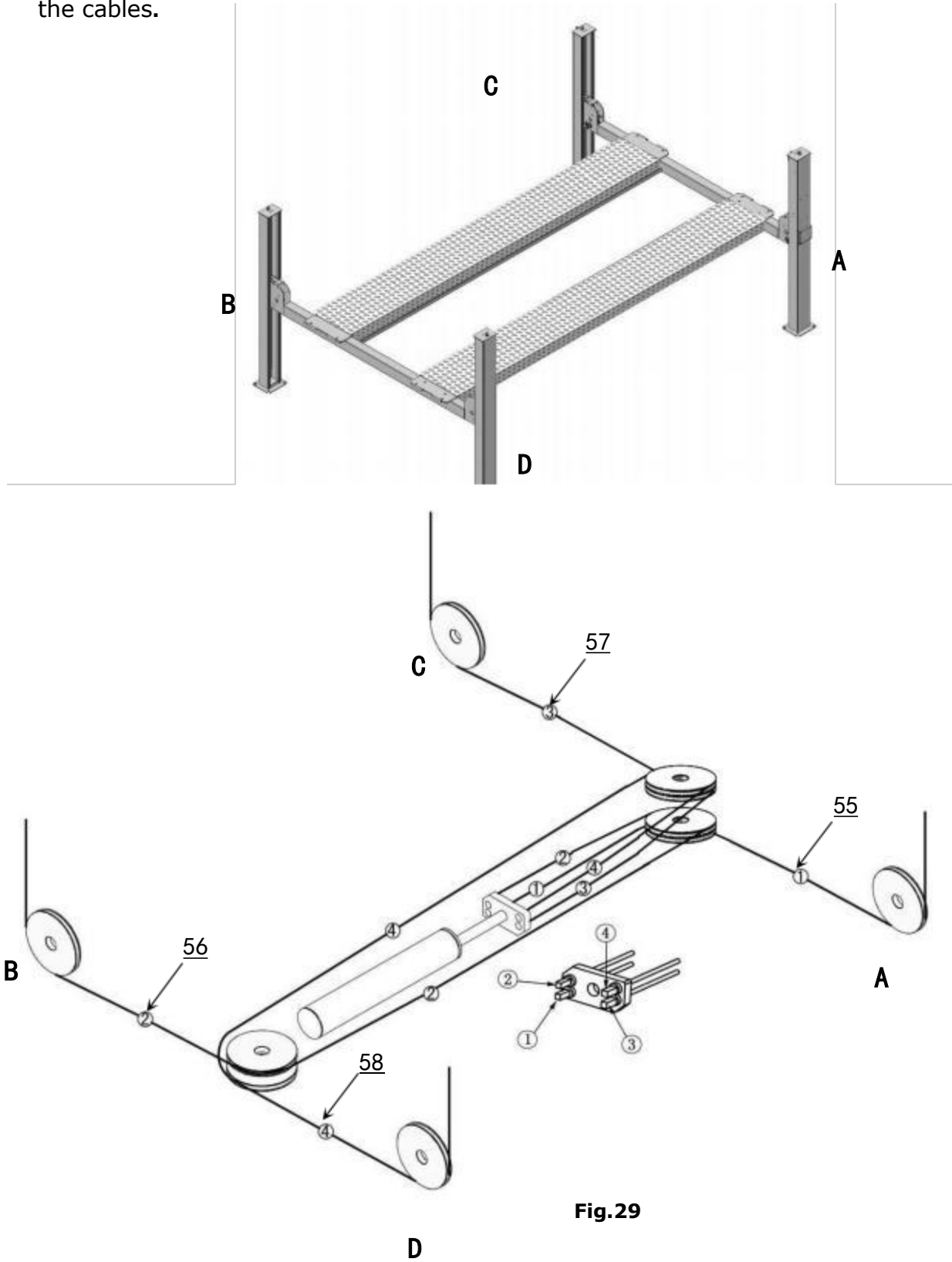
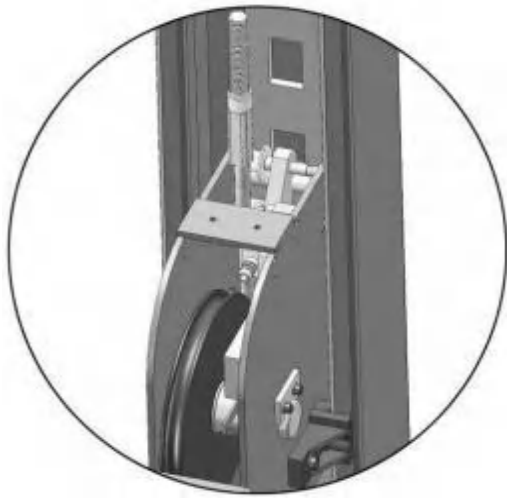


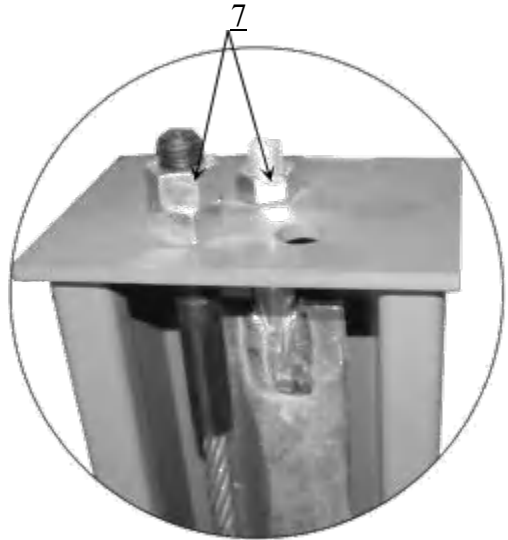
Fig.29

Cable \ No.	1	2	3	4
Length (w/ fitting)	146-5/8"	398-5/8"	209-5/8"	335-3/8"

2. The cable pass through the cross beam to top plate of columns and be screwed with cable nuts (See Fig. 30, 31), then install the cable limit pin. (See Fig. 32)

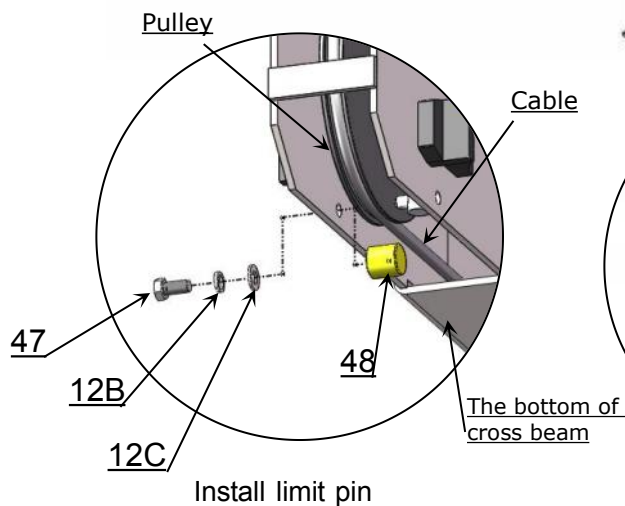
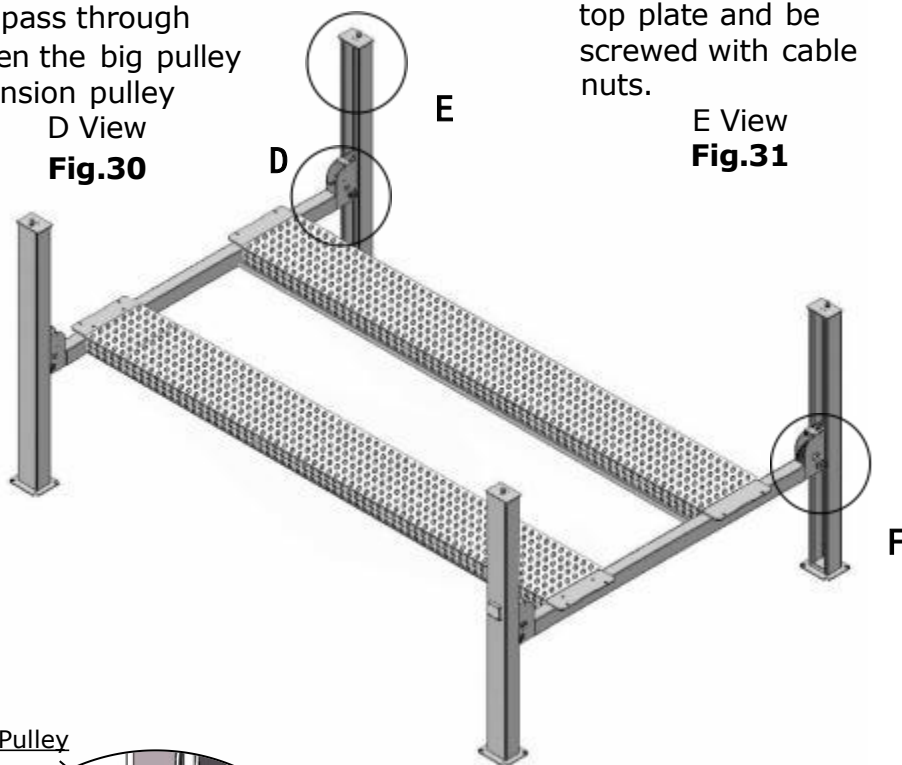


Cable pass through
between the big pulley
and tension pulley
D View
Fig.30



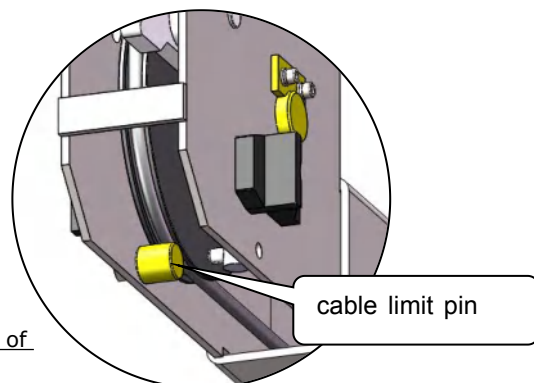
Cable pass through
top plate and be
screwed with cable
nuts.

E View
Fig.31



Install limit pin

F View
Fig. 32



After installation

3. Illustration for platform cables (See Fig. 33, 34, 35).

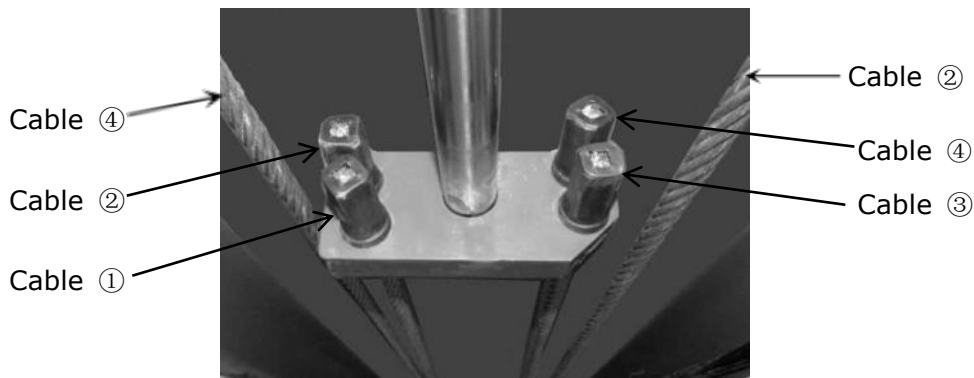


Fig. 33



Fig. 34

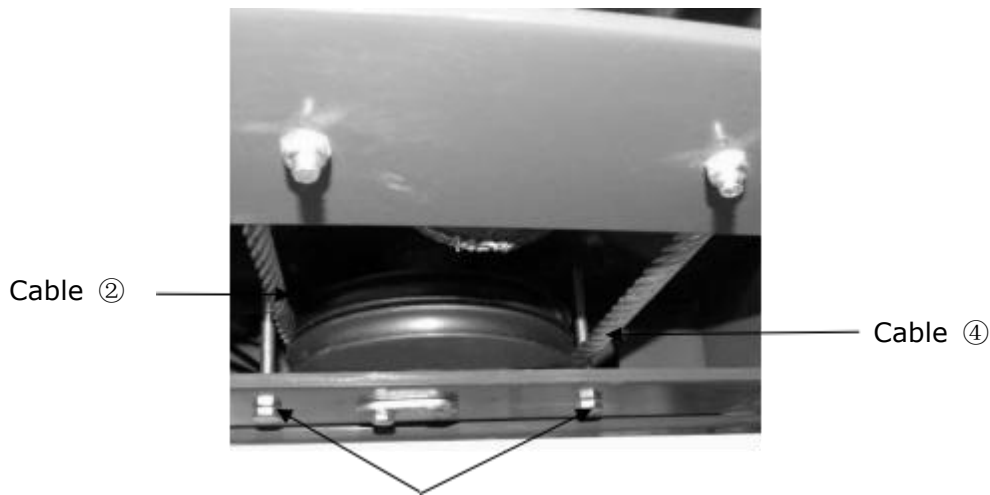
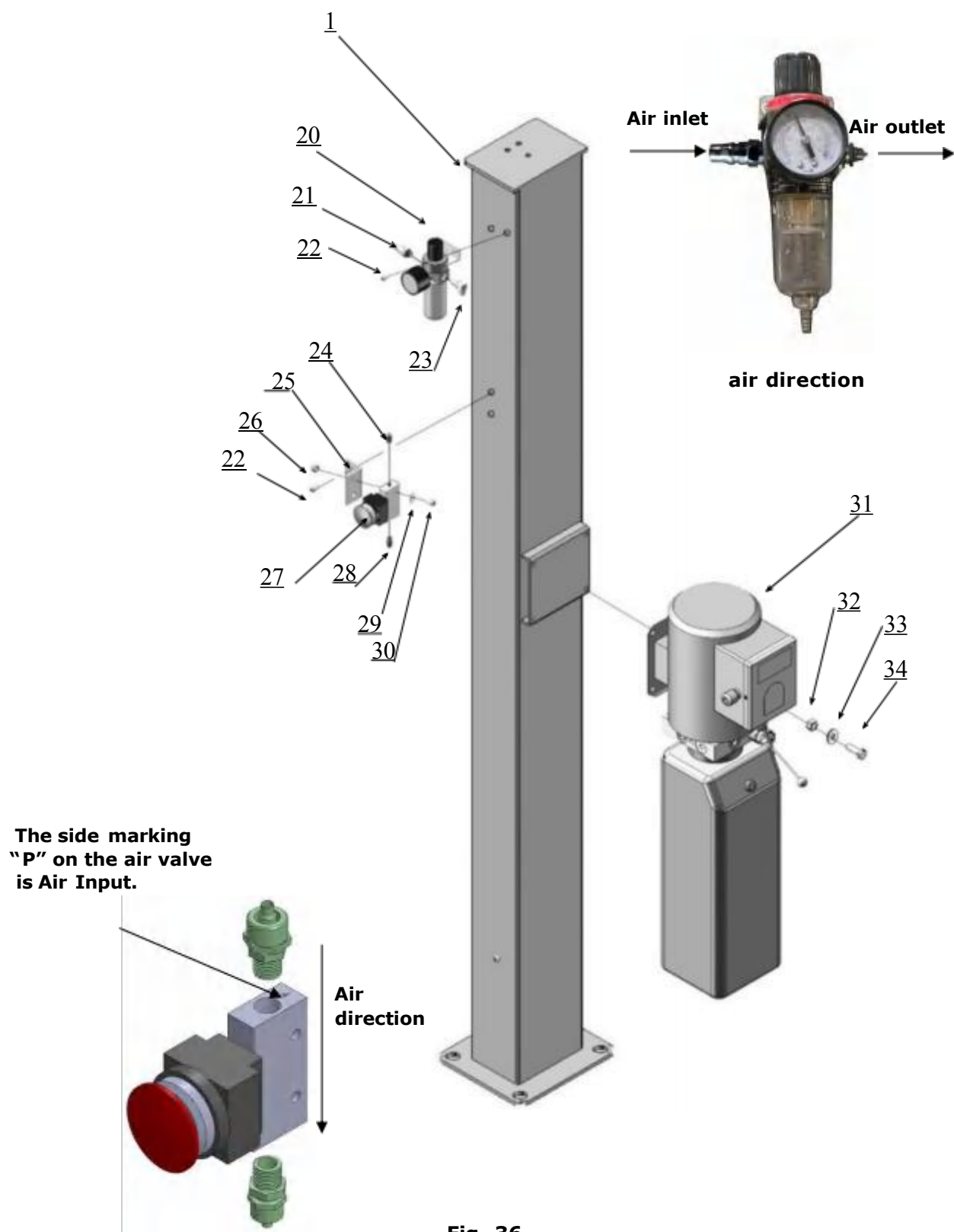


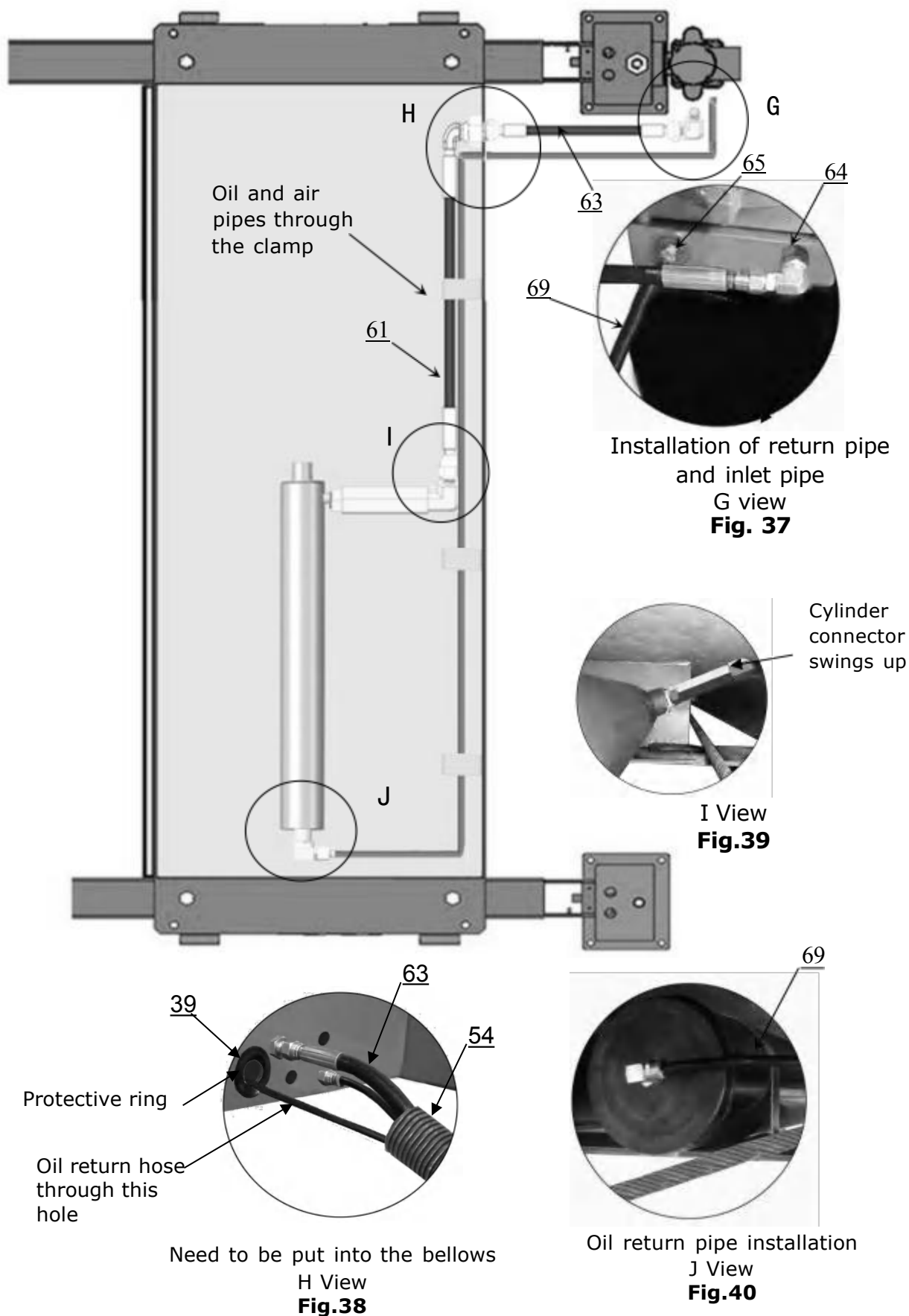
Fig. 35

K. Install oil-water separator, manual control air valve and power unit
(See Fig. 36).



L. Install hydraulic system.

Note: Oil hoses and oil return pipe connected to oil cylinder must be passed above the cable and cylinder inlet port must swing upward to avoid the oil hose and oil return pipe scratched by cable.

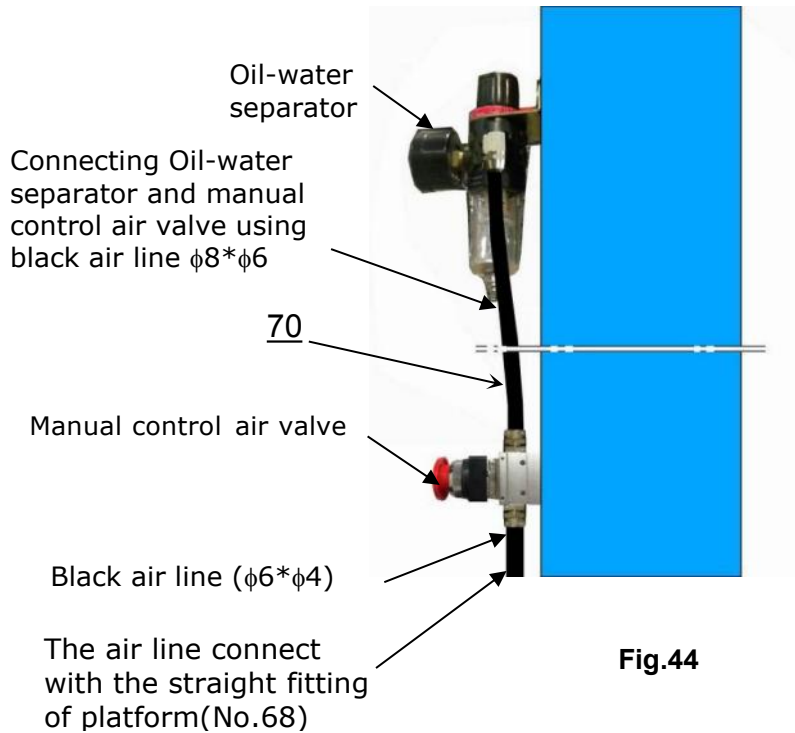


1. Cut off the $\phi 6 \times \phi 4$ black air line from the crossbeam between two retainers, and then connect to the T fitting (No. 66). (See Fig. 41).
2. Fix the T fitting (NO. 67) with nut (NO. 67) on the platform and connect to the straight fitting (NO. 68). (See Fig. 42).
3. Connect two T fittings which installed in step 1 & step 2 with $\phi 6 \times \phi 4$ black air line as shown. Connect the manual air valve to the straight-fitting (NO. 68).

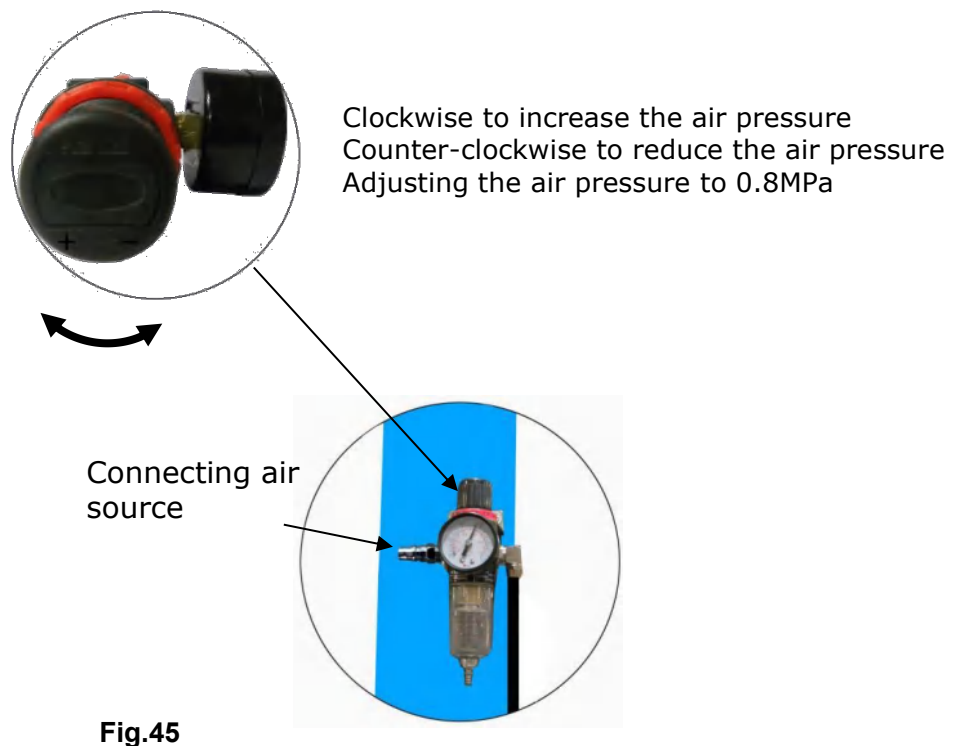
Note: the actual length of air line can be cut by installer. (See Fig. 43, Fig. 44).



4. Connecting Oil-water separator and manual control air valve with $\phi 8 \times \phi 6$ air line(No.70)(**See Fig. 44**)



5. Connect to the air source , adjusting the air pressure of oil-water separator to 0.8MPa. (**See Fig. 45**)



N.Install Electrical System

Connect the power source on the data plate of Motor.

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

Single phase motor (See Fig. 46)

⚠ DANGER All electrical wiring must be performed by a licensed and certified electrician. Before ensuring the main power has disconnected from the lift and cannot be re-applied until all procedures have been completed, don not perform any maintenance or installation to the lift.

⚠ DANGER Do not use the lift if the wires are damaged or severely worn. If the vehicle rises without noticing damage or extreme wear, carefully lower the vehicle to the ground. Once the lift is on the ground, remove it, disconnect the power, and arrange for protection.

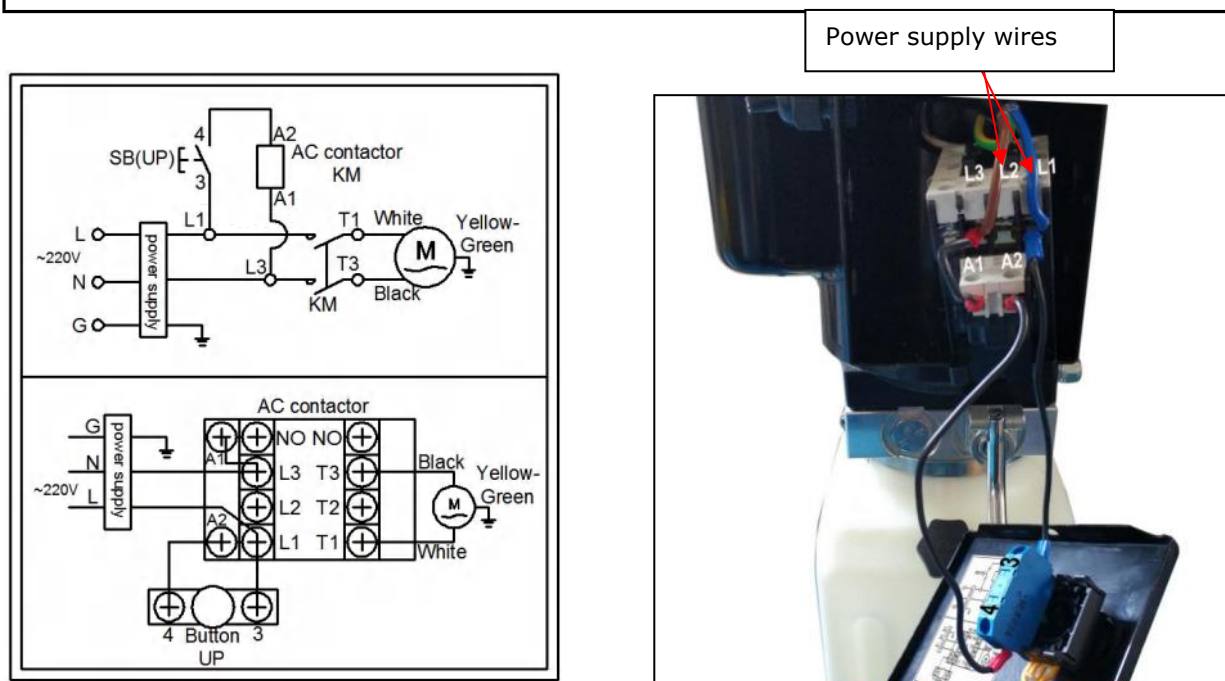


Fig.46

O. Install spring and safety cover of cross beam (See Fig. 47)

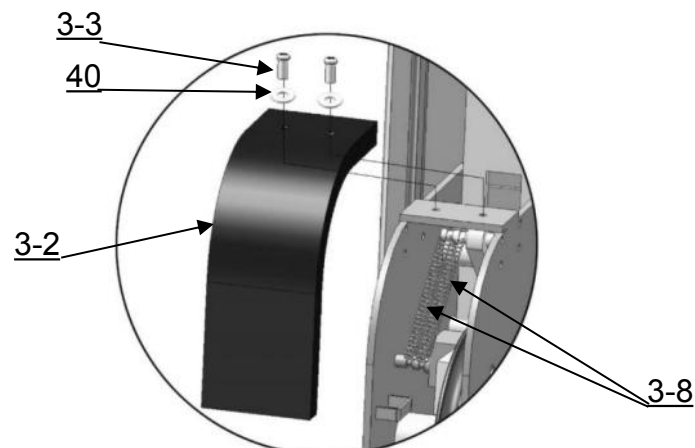
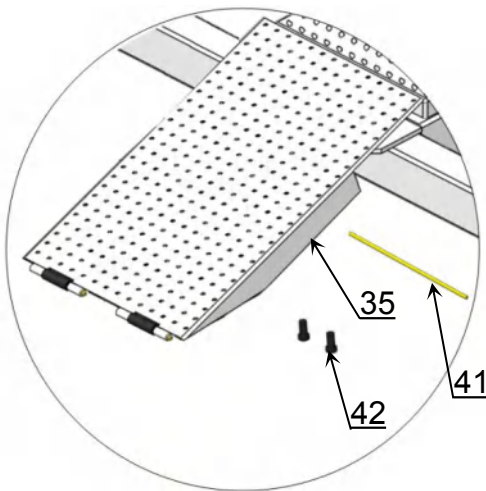


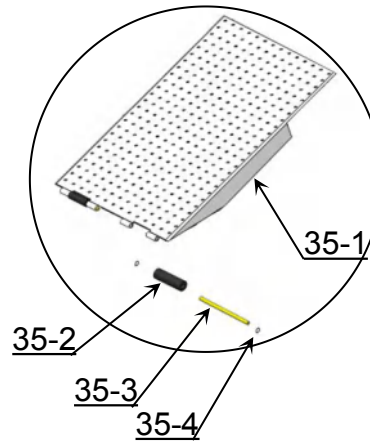
Fig.47

P. Install drive-in ramp, tire stop plate, platform lock plates, Limit rod (See Fig. 48)

Install Drive-in ramp



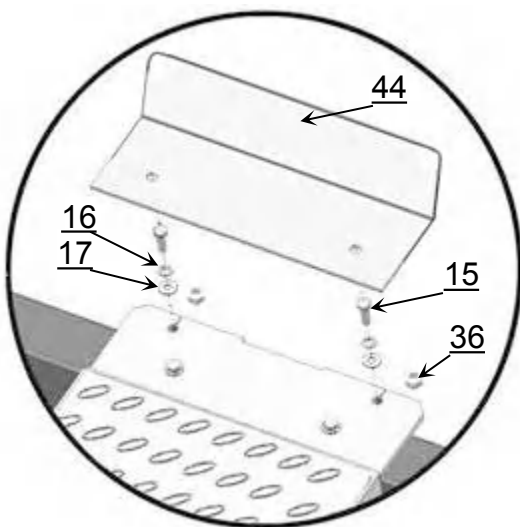
Install Drive-in ramp
Fig.48



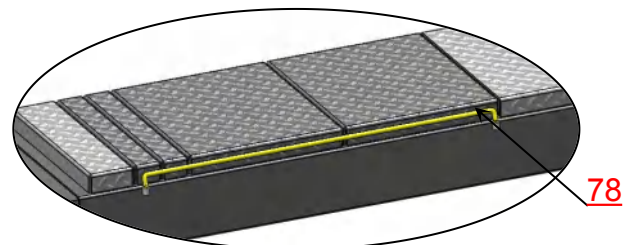
Exploded View of drive-in ramp

Item	Part No.	Description	Qty.
35-1	11420003	Drive-in ramp(PRO-12SX)	2
	11430002	Drive-in ramp(PRO-12ASX)	2
35-2	11610667	Roller	4
35-3	11620043	Roller pin	4
35-4	10209010	Clip ringφ10	8

Q. Install tire stop plate, turnplate adjustable block, limit rod (See Fig. 49)



Install tire stop plate



Install turnplate cover,
turnplate adjustable block
and limit rod.

Fig.49

PRO-12SX



PRO-12ASX

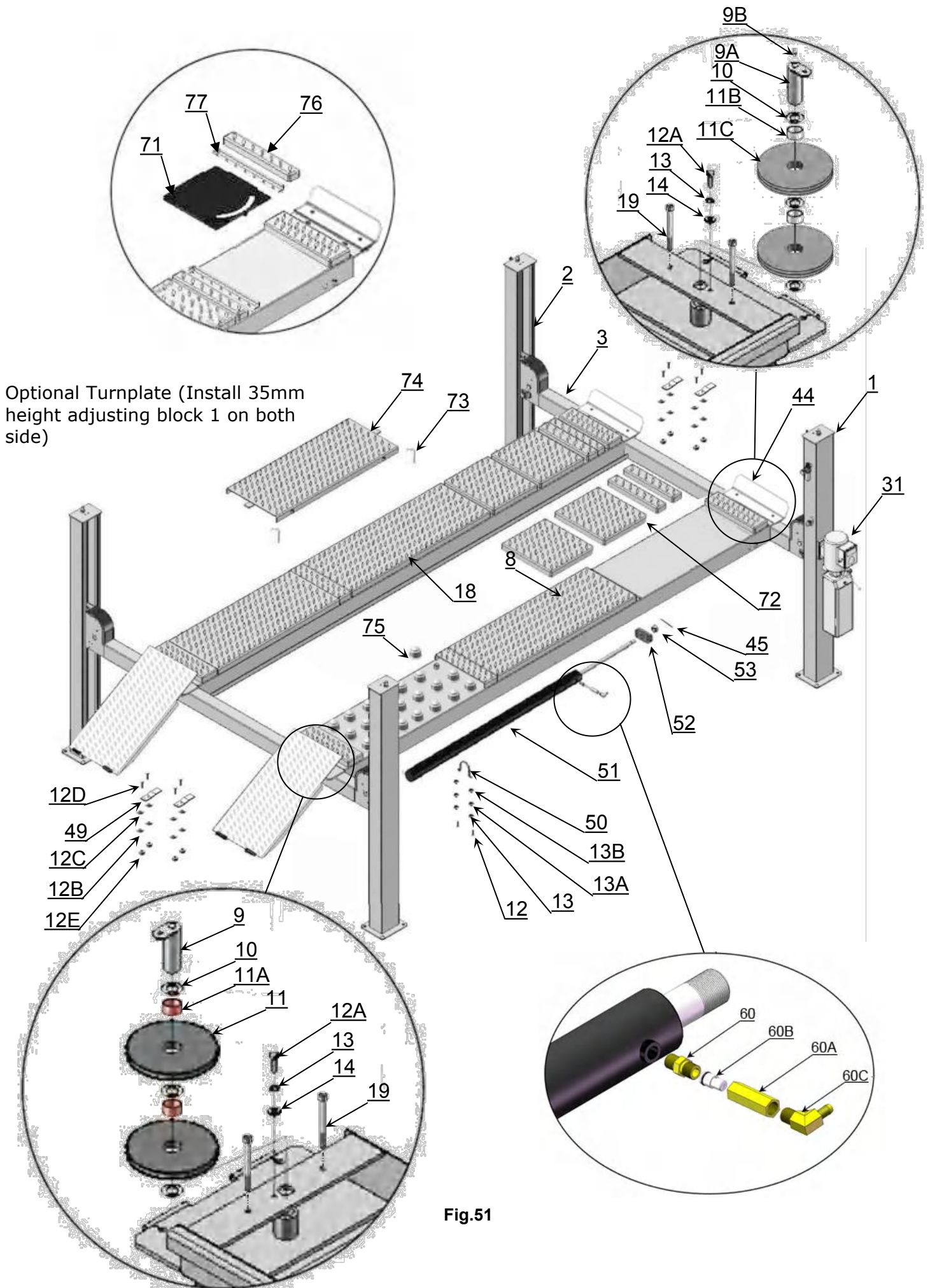


Fig.51

PARTS LIST FOR PRO-12SX, PRO-12ASX

Item	Part No.	Description	PRO-12SX	PRO-12ASX
1	11420011A	Power-side Column	1	1
2	1104011001A	Offside Column	3	3
3	1104062001C	Cross Beam Assy.	2	2
5	10209059	Anchor Bolt 3/4*5-1/2	16	16
6	11410022-01	Safety Ladder	4	4
7	10420175A	Hex Nut M20	16	16
8	11490001-03	Power-side Platform	1	0
	11496001-03		0	1
9	11420022A-01	Pulley Shaft Weldment	1	1
9A	1104013003A	Pulley Shaft Weldment	1	1
9B	10620064	Greasing fitting	1	1
10	10420023A	Flat Washer $\phi 36 \times \phi 65 \times 2.8$	14	14
11	11420024B	Pulley	6	6
11A	10420132A	Bush for Pulley	6	6
11B	1004014005	Bush	2	2
11C	1104013004	Dual groove pulley	2	2
12	10209043	Hex Bolt M8*20	2	2
12A	1004534009	Hex bolt M8*20(8.8 class)	2	2
12B	10209039	$\Phi 10$ lock washer	12	12
12C	10209022	$\Phi 10$ flat washer	12	12
12D	1004014006	Hex bolt M10*25(8.8 class)	8	8
12E	10209021	Hex nut M10	8	8
13	10209034	Lock washer $\phi 8$	4	4
13A	10209033	Flat washer $\phi 8$	2	2
13B	10217002	Hex nut M8	2	2
14	10420144	Washer $\phi 8 \times \phi 25 \times 3$	2	2
15	10420030	Hex Bolt M16*40	12	12
16	10420137	Lock Washer $\phi 16$	12	12
17	10420029	Flat washer $\phi 16$	12	12
18	11490002-03	Offside Platform	1	0
	11496002-03		0	1
19	10600015	Hex Bolt M10*120	4	4
20	10420145	Oil-water Separator AFR-2000	1	1
21	1004334013	Straight Fitting for Air Line	1	1
22	10209009	Cap Head Bolt M6*8	4	4
23	10420076	90° Fitting for Air Line 6*8	1	1
24	10420159	Straight Fitting for Air Line	1	1
25	11420160	Fixing plate of Manual Control Valve	1	1
26	10420161	Self-locking Nut M4	2	2
27	10420162	Manual Control Air Valve	1	1
28	10420163	Straight Fitting for Air Line	1	1
29	10420148	Flat Washer $\phi 4$	4	4
30	10420164	Round Head Bolt M4*30	2	2
31		Manual Power Unit	1	1

Item	Part No.	Description	PRO-12S	PRO-12AS
32	10209005	Self-locking Nut	4	4
33	10209004	Rubber Ring	4	4
34	1061K050	Hex Bolt M8*30	4	4
35	10420003	Drive-in Ramp assy.	2	0
	86010649		0	2
36	10209066	Hex nut M16	4	4
39	10420156	Protecting Ring	1	1
40	10420045	Flat Washer φ6	20	20
41	1104013007	Pin for Drive-in Ramp	2	2
42	10420005	Fixing Bolt M5*8	4	4
43	10420502	Part box	1	0
	10430501	Part box	0	1
44	11420031-1	Tire stop plate	2	2
45	10201005	Cotter pin	1	1
46	10620065	Shim 2mm	20	20
	10201090	Shim 1mm	20	20
47	10206017	Hex bolt M10*20	4	4
48	11420217-01	Cable limit pin	4	4
49	11420007	Lock plate	4	4
50	11410090	Cylinder fixing ring	1	1
51	C804406	Cylinder	1	1
52	1104573005	Cable connecting plate	1	1
53	10420014	Hex nut M27	1	1
54	1004023001	Protective hose 1"×1 3/16"×59 1/16"	1	1
55	10490005	No.① Cable L=146 5/8"	1	1
56	10490006	No.② Cable L= 398 5/8"	1	1
57	10490004	No.③ Cable L=209 5/8"	1	1
58	10490003	No.④ Cable L=335 7/16"	1	1
59	10420166	90° Fitting 6*4	1	1
60	11420243	Straight Fitting for Cylinder	1	1
60A	11420245	Fitting	1	1
60B	C802003	Balancing valve	1	1
60C	10201020	90° Fitting	1	1
61	10490007	Oil Hose (straight+90°)	1	1
62	10420120	Extended Straight Fitting (with Nut)	1	1
63	10207026	Oil Hose L= 59 13/16" (double straight)	1	1
64	10209060	90° Fitting	1	1
65	10420095	Straight Fitting for Power Unit 6*4	1	1
66	10420124	T Fitting	2	2
67	1004014007	T fitting 4*6	1	1
67A	1004014008	Thin nut G1/4	1	1
68	10420241	Straight Fitting 6*4	1	1
69	10420195	Oil Return Hose L=224 7/16"black	1	1
69A	10420131C	Black Air Line L=307 1/16"	1	1
70	10420167A	Black Air Line L=18 1/8"	1	1
71	40101	Turnplate	0	2
72	11430004	Cover for Turnplate	0	4

Item	Part No.	Description	PRO-12S	PRO-12AS
73	11520037	Pin	0	4
74	11480028	Side slide plate	0	2
75	10420157	Alignment ball set	0	54
76	11480033	Turnplate block 1	0	4
77	11480045	Turnplate block	0	4
78	10400303001	Limit rod	0	4

4.1 CROSS BEAM (10480040)

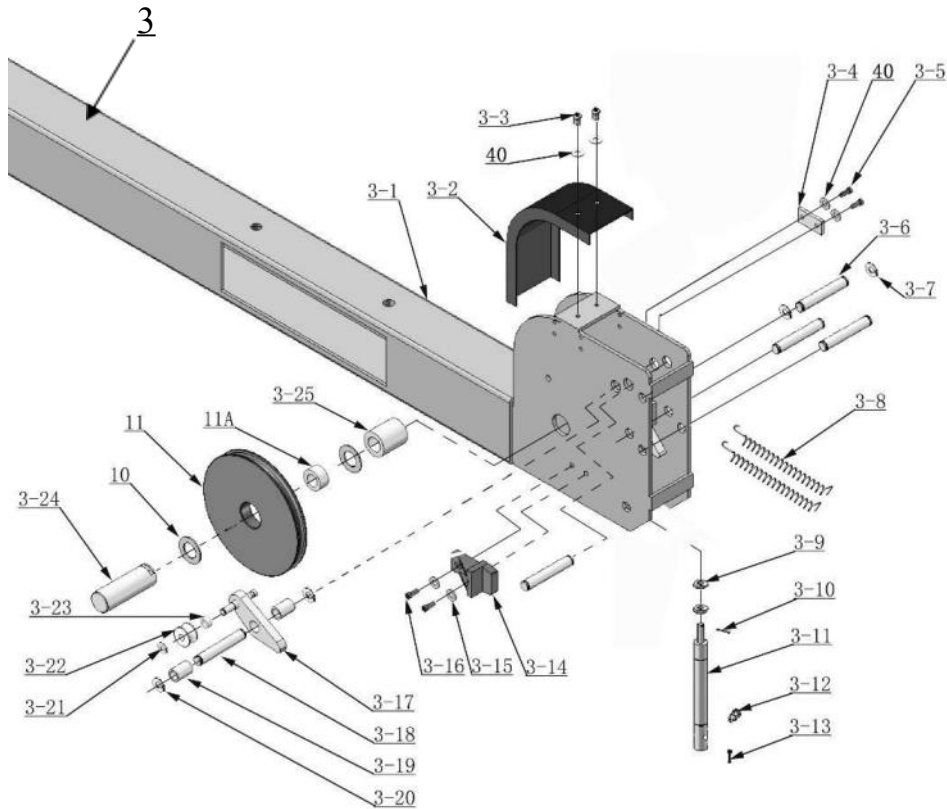


Fig. 52

Item	Part No.	Description	Qty
3-1	11480023	Cross Beam	2
3-2	10420051B	Pulley Safety Cover	4
3-3	10209009	Round Head Bolt M6*8	8
3-4	11420044	Limit Plate	4
3-5	10420138	Socket Bolt M6*16	8
3-6	11420038	Pin	12
3-7	10420037	Snap Ring	24
3-8	10480113	Spring	8
3-9	10209021	Hex Nut M10	8
3-10	10420049	Cotter Pin	4
3-11	10420048	Air Cylinder	4
3-12	10420047	Fitting for Air Cylinder	4
3-13	10420046	Cotter Pin	8
3-14	10420042	Slider block	8
3-15	10209033	Flat washer $\phi 8$	16
3-16	10420043	Socket Bolt M8*20	16
3-17	11420175	Slack-cable safety lock (left & right)	2
	11420240		2
3-18	11420171	Pin $\phi 19$	8
3-19	11420172	Pin Bush for Slack-cable safety lock	8
3-20	10206019	Clip Ring	16
3-21	10209010	Clip Ring	4
3-22	10420035	Tension Pulley	4
3-23	11420174	Spacer	4
3-24	11420041A	Pulley Pin	4
3-25	11420040A	Pulley Bush	4

4.2 CYLINDERS EXPLODED VIEW C804406 (Old code 10410081-01)

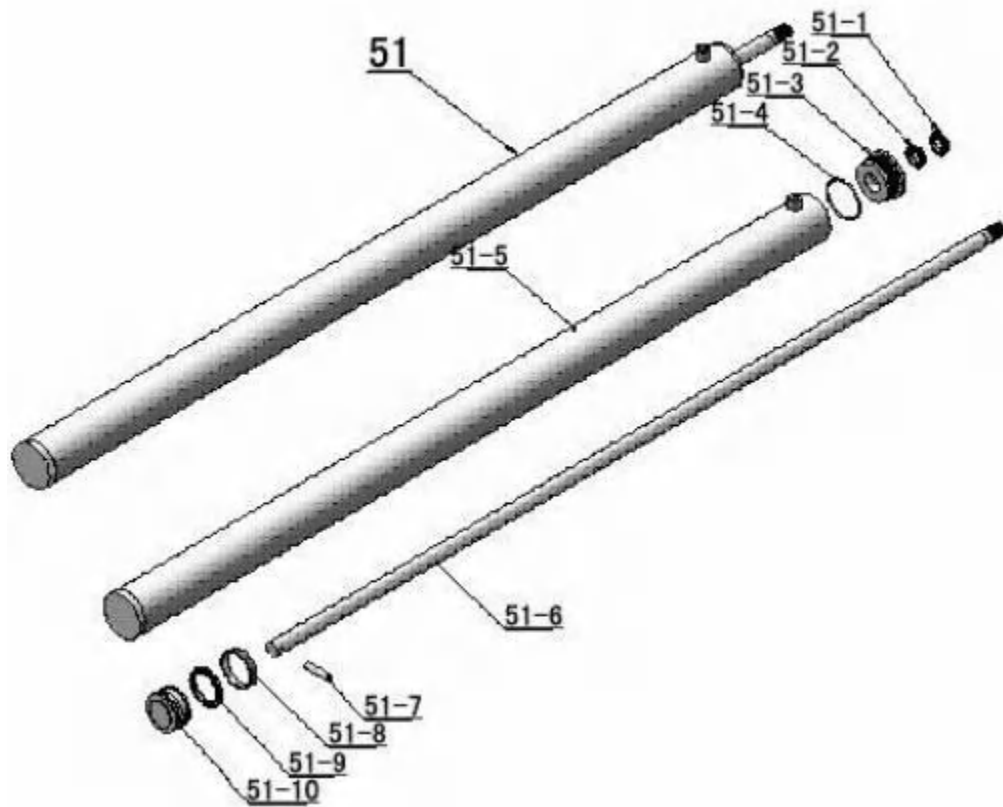
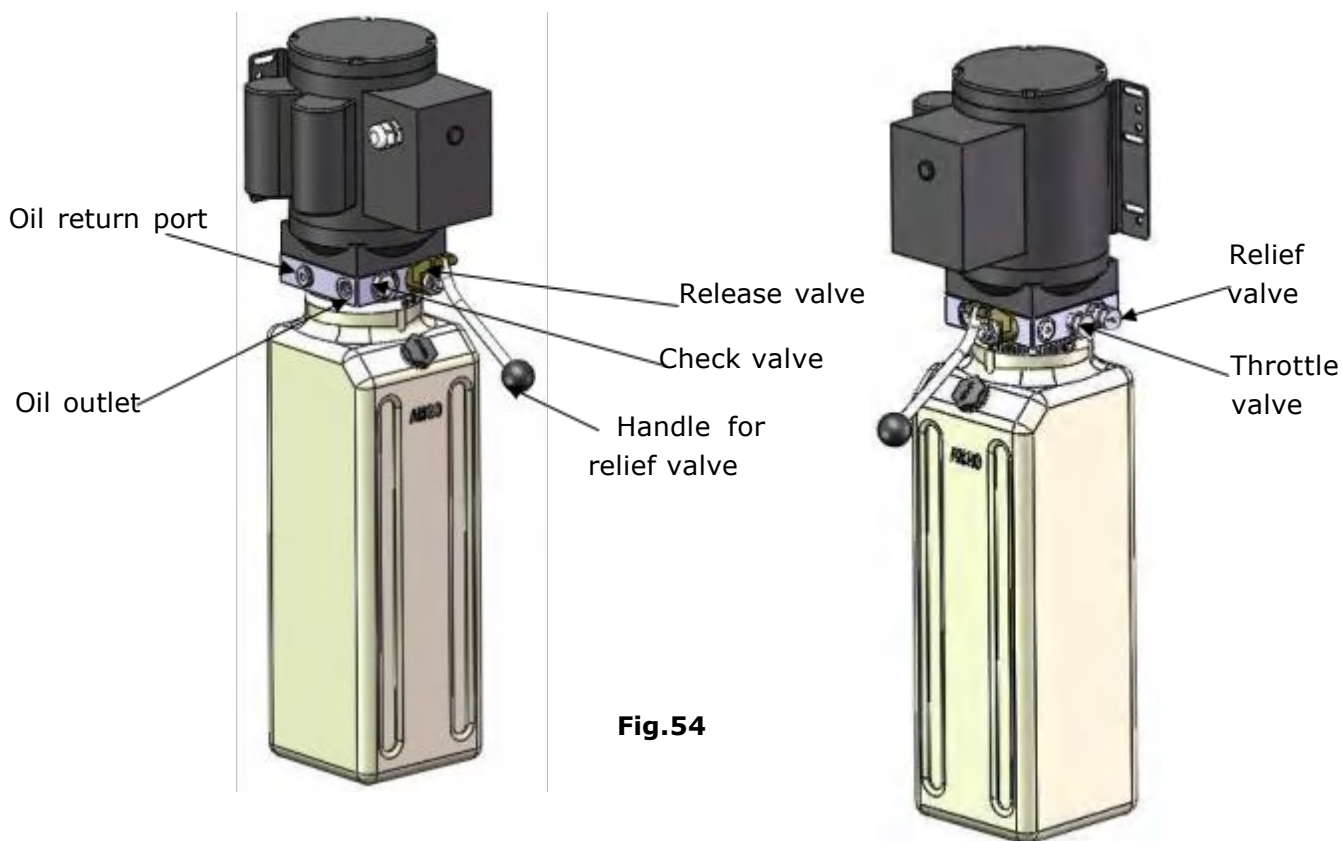


Fig. 53

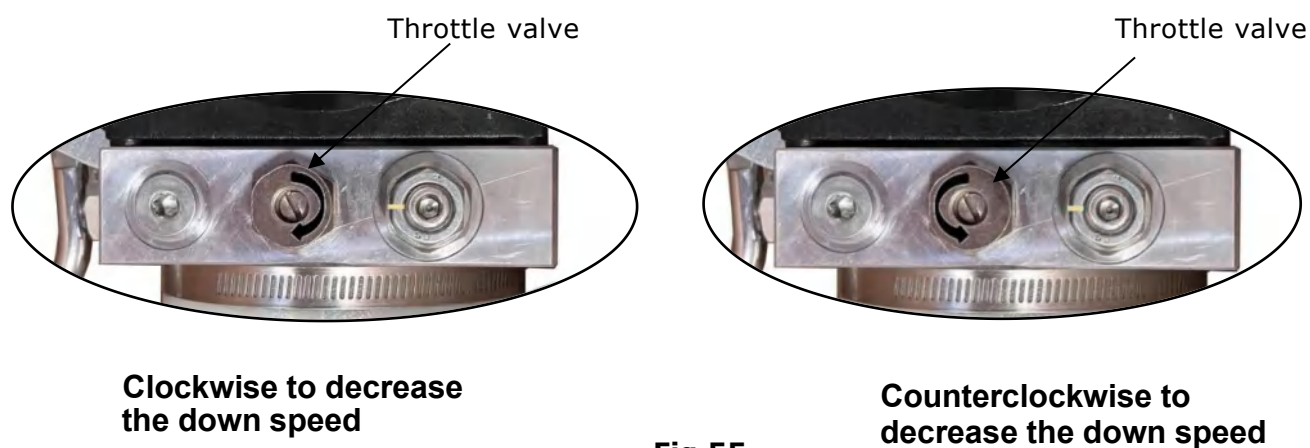
Item	Part No.	Description	Qty
51-1	10420059	Dust Ring	1
51-2	1004016001	Y- Ring	1
51-3	11410082	Head Cap	1
51-4	10410083	O- Ring	1
51-5	11410084	Bore Weldment	1
51-6	11420064	Piston Rod	1
51-7	11410085	Pin	1
51-8	10410086	Support Ring	1
51-9	10410087-01	Y- Ring	1
51-10	11410088	Piston	1

4.3 Illustration of hydraulic valve for power unit



4.3.1 Adjust the lower speed

You can adjust the lower speed of the lift if needing: Turn the Throttle Valve in clockwise direction to decrease the lower speed, or increase the speed in counterclockwise direction.



V. TEST RUN

1. Fill the reservoir with approximately 11 L Hydraulic Oil (**Note:** In consideration of Power Unit's durability, please use **Hydraulic Oil 46#**).
2. Press button **UP**, the Cables will be strained. Check whether the Cables match the Pulley. Make sure the Cables are not across.
3. Press the Handle of release valve to lock the Cross-beam to the safety ladders, and then adjust the platforms to be level by adjusting the nuts of Safety Ladders.
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 post and the plastic slider of Cross-beam to about 2mm, and then tighten the fixing nut of slider.
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

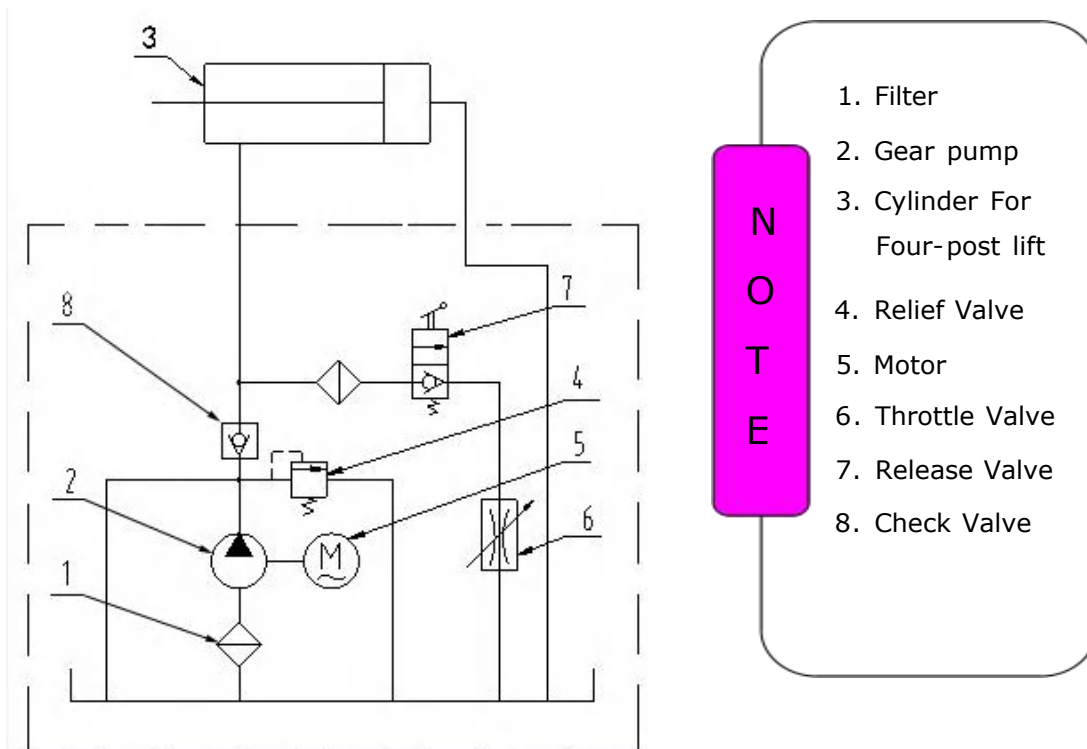


Fig. 56

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. Turn on the power and press the button **UP**, raise the lift to the working position;
Note: make sure the vehicle is steady when the lift is raised.
4. Press the Handle of release valve to lock the lift in the safety position. Make sure the Safety device is locked at the same height.

⚠ WARNING It is unsafe to work under the lift without locking at the safety device after it has been lifted up, which may causes vehicle fall, damage, lift damage, human injury or even death.

To lower vehicle

1. Be sure the clearance of around and under the lift, only leaving operator in lift area;
2. Press the button **UP**, the lift will be raised for 3-5 seconds, and then press the button of Manual-controlled air valve by hand to make sure the safety device released, press the handle of release valve 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.
4. Turn off the power.

VII. MAINTENANCE SCHEDULE

Monthly:

1. Re-torque the anchor bolts to 150Nm;
2. Lubricate cable with lubricant;
3. Check all cable connection, bolts and pins to insure proper mounting;
4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
5. Lubricate all Rollers, Safety devices with 90wt. gear oil or equivalent.

Note: All anchor bolts should take full torque. If any of the bolts does not function for any reason, DO NOT use the lift until the bolt has been replaced.


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.

 **DANGER** Make sure the lift is completed disconnected from the power source before maintenance. If there is any external electrical lock/shutdown device, make sure to implement them before maintenance. The contact with high voltage/current, may cause injury or even death.

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 5. Height limit switch is damaged 	<ol style="list-style-type: none"> 1. Replace button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace AC contactor 5. Replace
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. Replace Pump 5. Check load
Lift cannot lower	<ol style="list-style-type: none"> 1. Safety device are in activated 2. Release valve damaged 3. Air Cylinder damaged 4. Oil system is jammed 	<ol style="list-style-type: none"> 1. Release the safeties 2. Replace or repair 3. Replace the cylinder 4. Clean the oil system

⚠️ WARNING A lift would be dangerous if operated by inexperienced or distracted operators. Operators should be fully aware that lifting a vehicle is a potentially life-threatening operation, especially if ignoring the mandatory safety precautions.

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 original equipment parts to repair.
2. **Do not** overload . 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. **Do not** lift a car with occupants inside. Keep the customers or bystanders away from the lift.
5. Keep the area around the lift free of obstacles, lubricating oil, grease, garbage and other debris for a long time.
6. Carefully drive the vehicle onto the lift and lifting up to the required height for operation. **Noted:** lift it high enough if you are working underneath, and make sure the safety devices are locked.
7. **Noted:** removing(install) parts from(to) a vehicle would cause a sudden shift of gravity which may result in instability of the vehicle. Please refer to the vehicle manufacturer's service manual as a recommended procedure if you need remove/install parts from(to) the vehicle
8. Before lowering the lift , make sure all obstacles underneath, include tool tray, tool rack etc., are all removed.

IIIX. 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.



Address:

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TX Division: 4310 Adler Dr., Suite #200, Dallas, TX 75211, USA

<http://www.amgohyd.com>

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