

INSTALLATION & OPERATION MANUAL



Atlas 412 12,000 lb. Capacity Commercial Grade 4 Post Lift



Atlas Automotive Equipment
www.atlasautoequipment.com
(866) 898-2604

Read this entire manual before operation begins.

Record below the following information which is located on the serial number data plate.

Serial No. _____

Model No. _____

Date of Installation _____

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Specifications

412 Features

- Manual control air-operated system.
- Mechanical self-lock and air-driven safety release.
- Manual hydraulic power system, cable-driven.
- Sand finish platform
- Adjustable platform and adjustable safety lock ladders.
- Optional Jack: With hand pump/Air-operated hydraulic pump/Controlled by power unit.

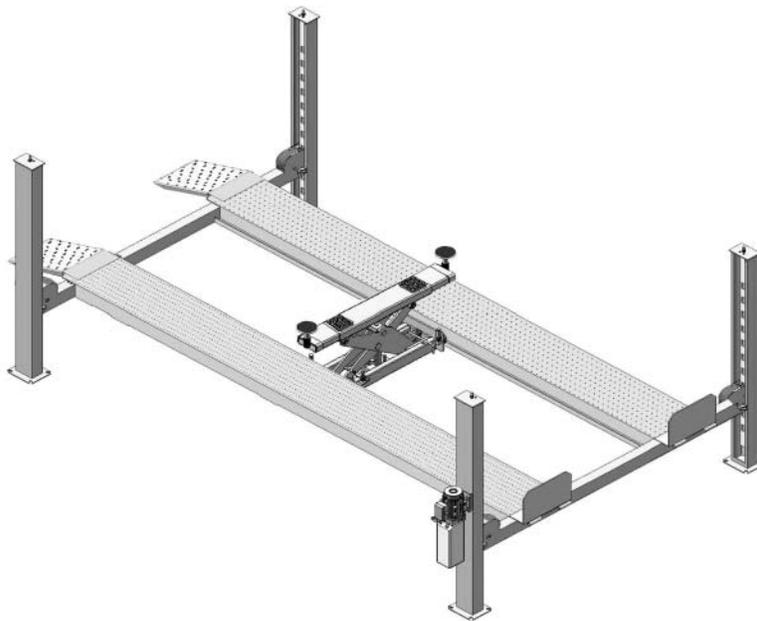


Fig. 1

Model	Lifting Capacity	Lifting Height	Lifting Time	Overall Length (Inc. Ramps)	Overall Length (No Ramps)	Overall Width	Width Between Columns	Gross Weight	Motor
412	5.5T 12,000 lbs	1865mm 73 1/2"	60S	6012mm 236 5/8"	5100mm 200 3/4"	3208mm 126 1/4"	2852mm 112 1/4"	1100Kg 2,420 lbs	2.0HP

Installation Requirement

Tools Required

Rotary Hammer Drill ($\Phi 19$)	
Hammer	
Level Bar	
English Spanner (12")	
Ratchet Spanner With Socket (28#)	
Wrench set (10#, 12#, 13#, 14#, 17#, 19#, 24#, 30#)	
Carpenter's Chalk	
Screw Sets	
Tape Measure (25')	
Pliers	
Socket Head Wrench (3#, 5#, 6#)	
Lock Wrench	

Concrete Specifications

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 totally 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.

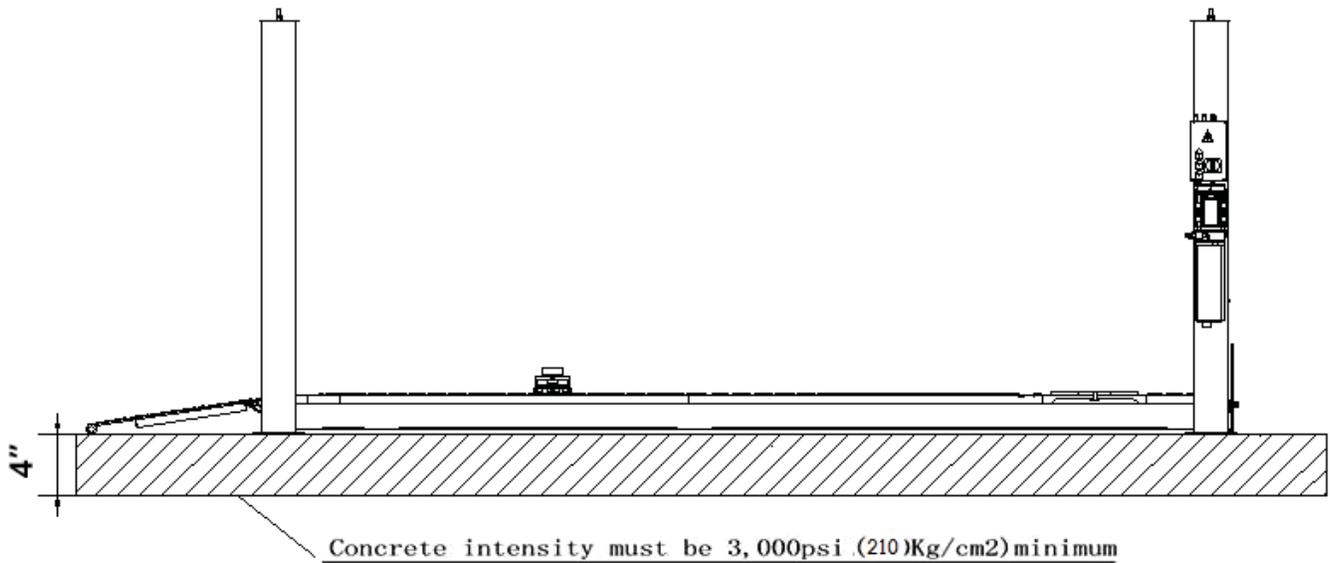


Fig. 3

Air Supply

Air pressure requirement: 0.5Mpa~0.8Mpa, Air line size $\phi 8 \times \phi 6$ and $\phi 6 \times \phi 4$.

Power Supply

The electrical source must be 3KW minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

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. 4).



Fig. 4

2. Open the outer packing carefully (See Fig. 5).

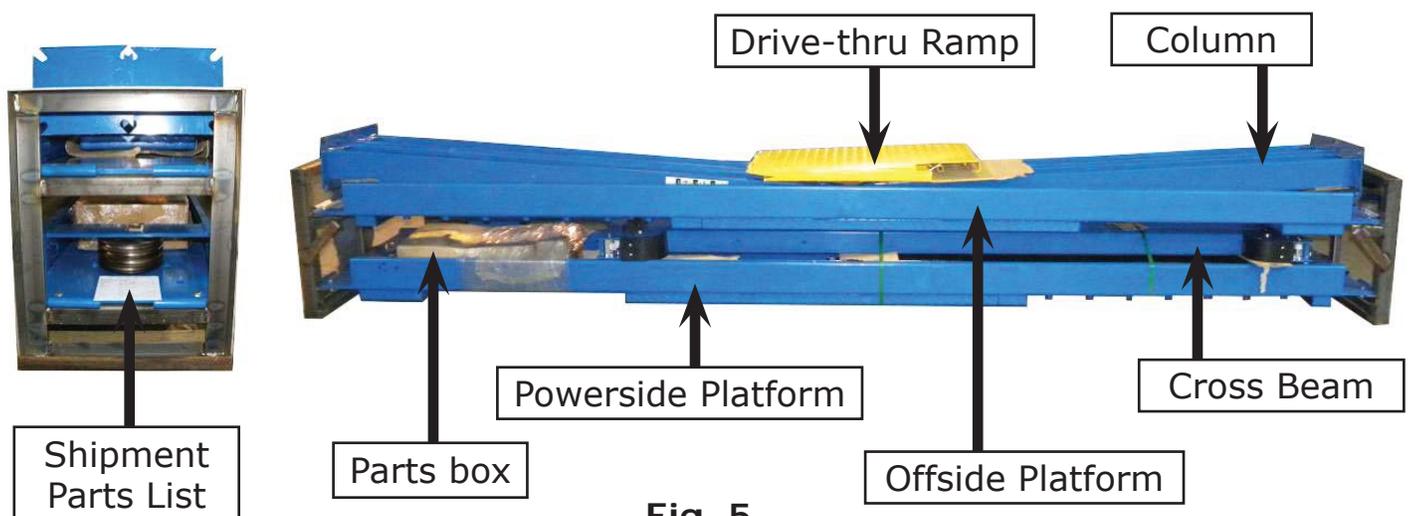


Fig. 5

3. Take off the drive-thru ramps and columns (See Fig. 6).



Fig. 6

4. Loosen the screws of the upper package stand, take off the offside platform, take out the parts inside the powerside platform, then remove the package stand.
5. Move aside the parts and check the parts according to the shipment parts list (See Fig. 7).



Fig. 7

6. Open the carton of parts and check the parts according to the parts box list (See Fig. 8).



Fig. 8

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. 10).

Note: Reserve space front and behind the installation site.

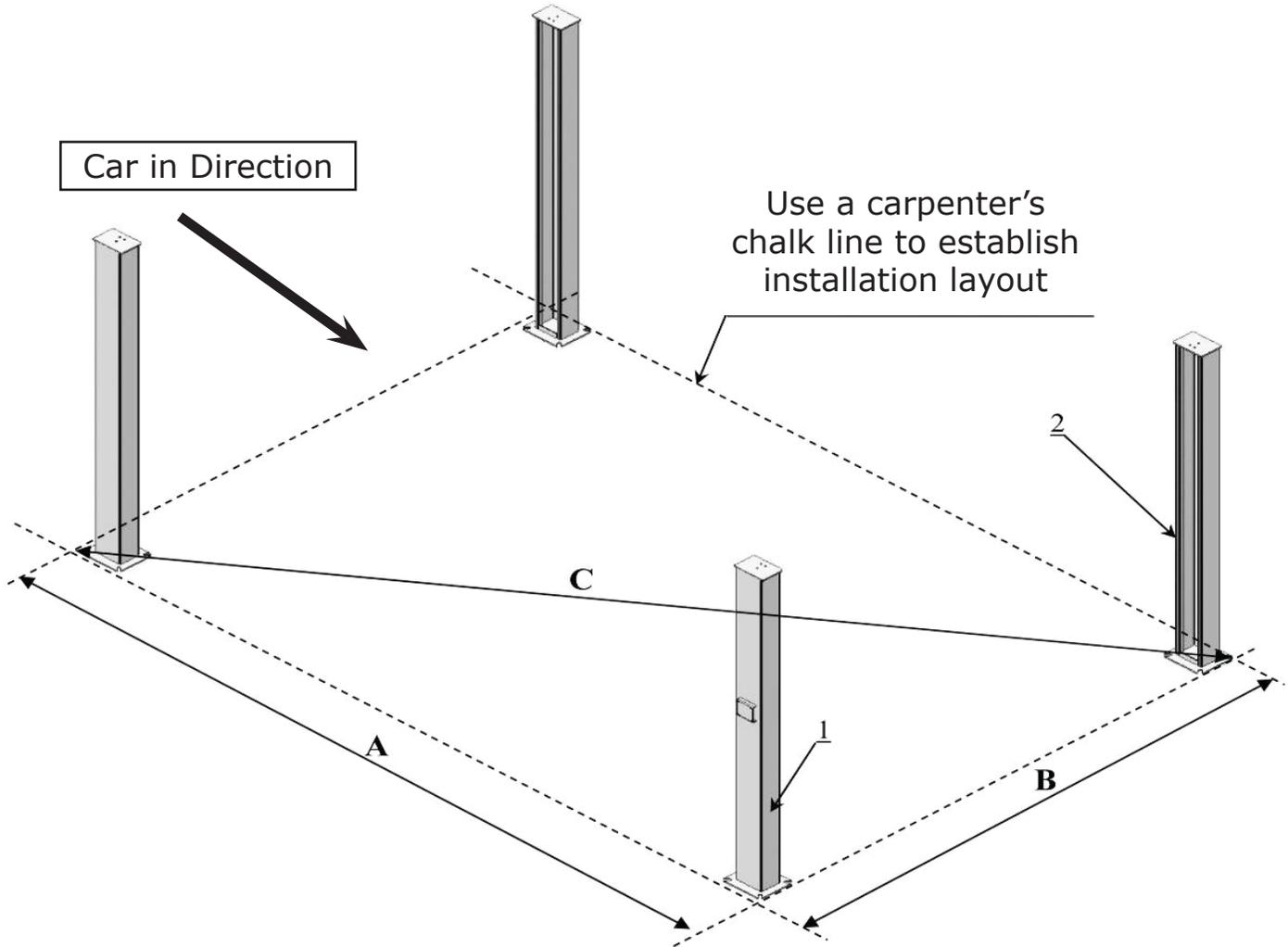


Fig. 10

A	B	C
5100mm 200 3/4"	3208mm 126 1/4"	6025mm 237 1/4"

Table 1

D. Install Cross Beams

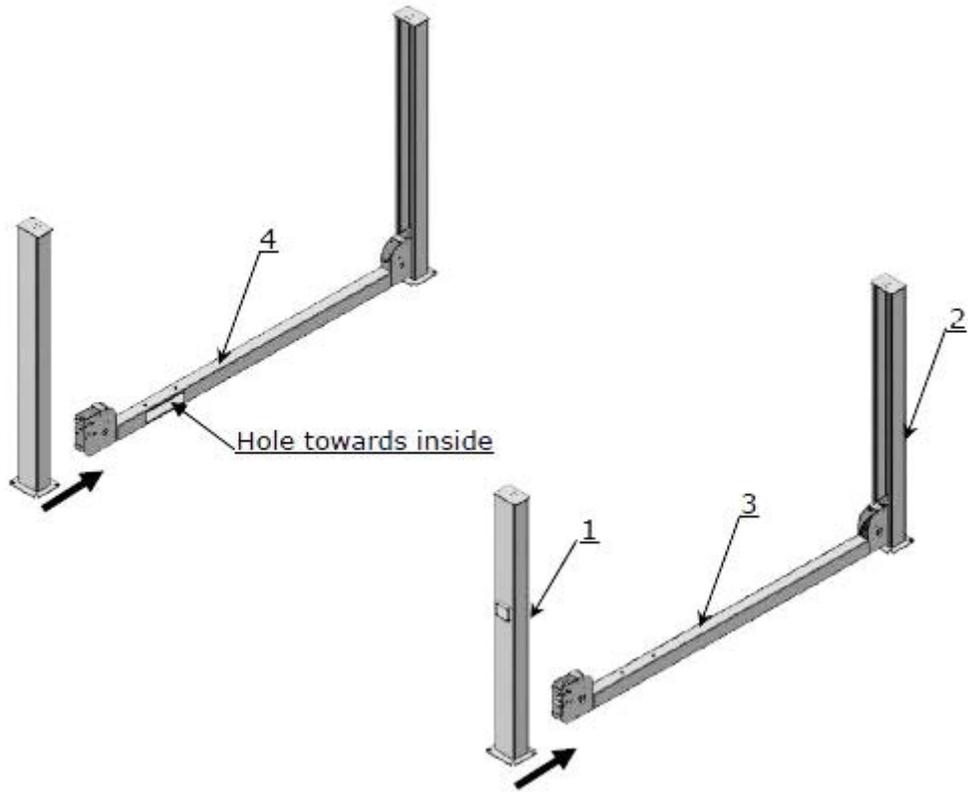


Fig. 11

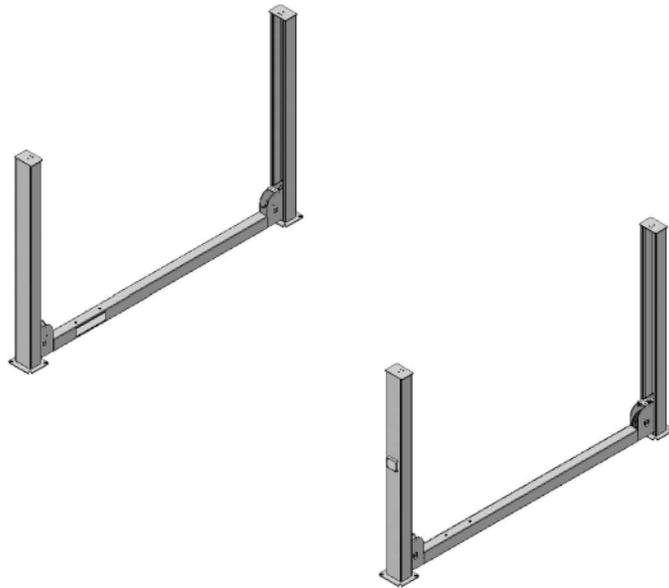
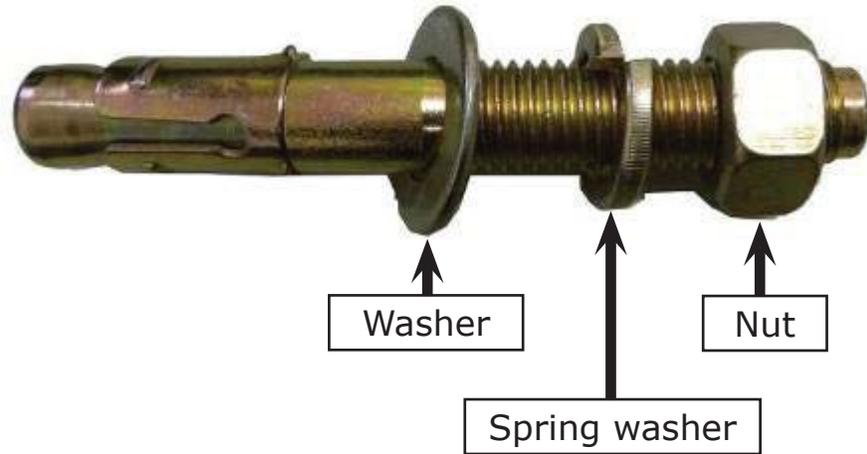


Fig. 12

E. Fix The Anchor Bolts

1. Prepare the anchor bolts (See Fig. 13).

Fig. 13



2. Using the prescribed rotary hammer drill, and drill all the anchor holes and install the anchor bolts, do not tighten the anchor bolts first (See Fig. 14).
Note: Anchor bolts driven into the ground at least 90mm

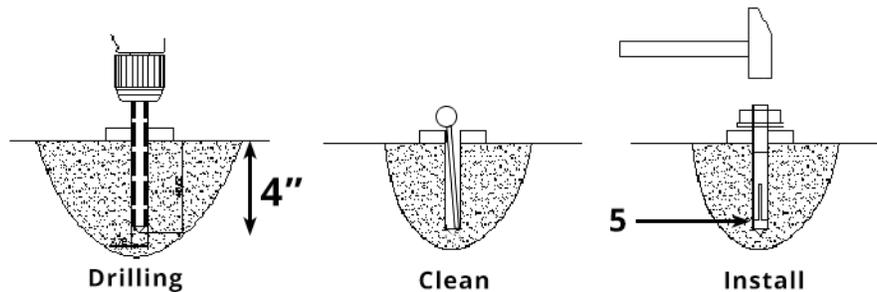


Fig. 14

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. Withdraw the Slack-cable safety lock of the Cross-beam to insert the Safety Ladder in, raise the Safety Ladder, and screw the upper nuts (See Fig. 15).

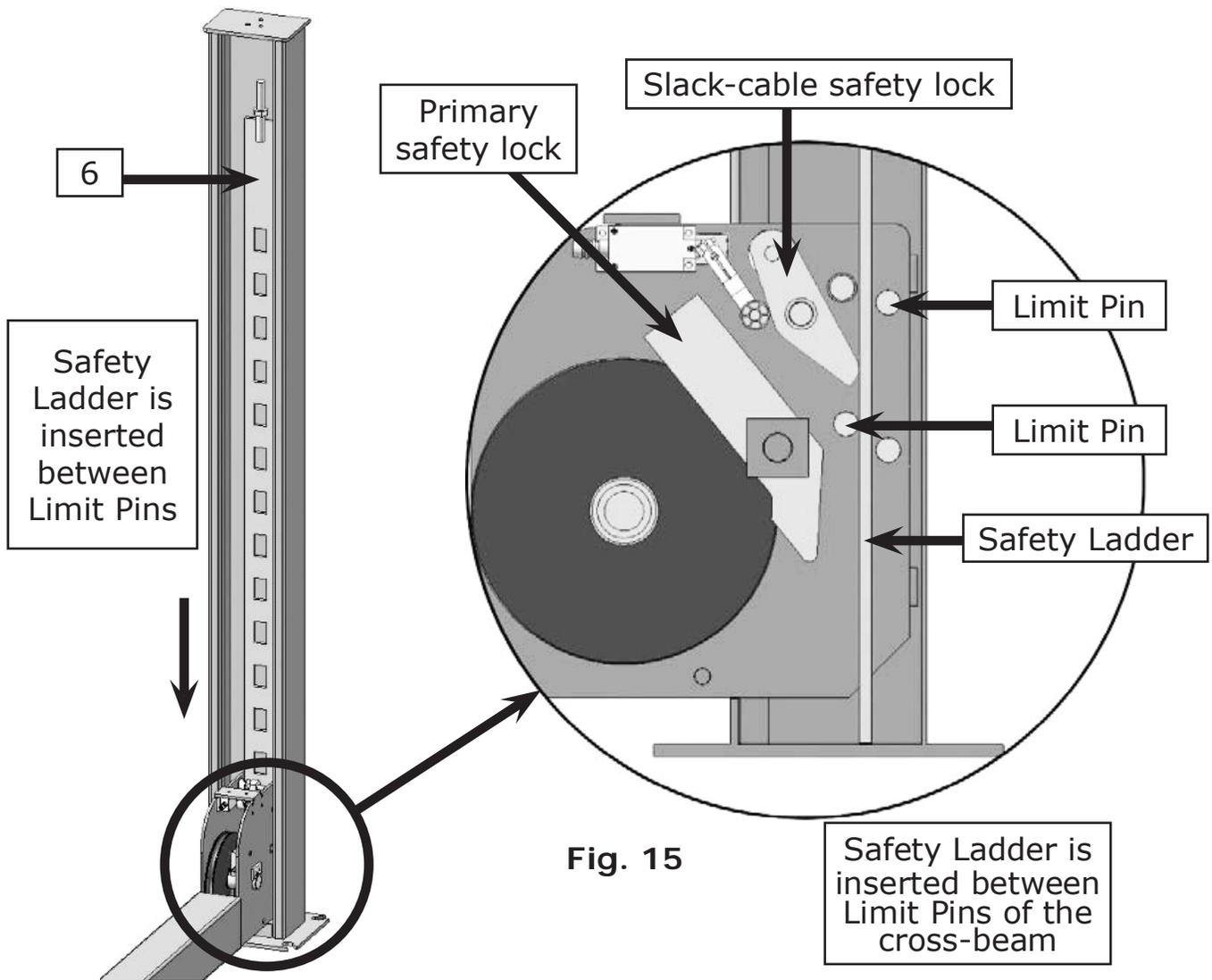


Fig. 15

2. Install safety ladders (See Fig. 16).

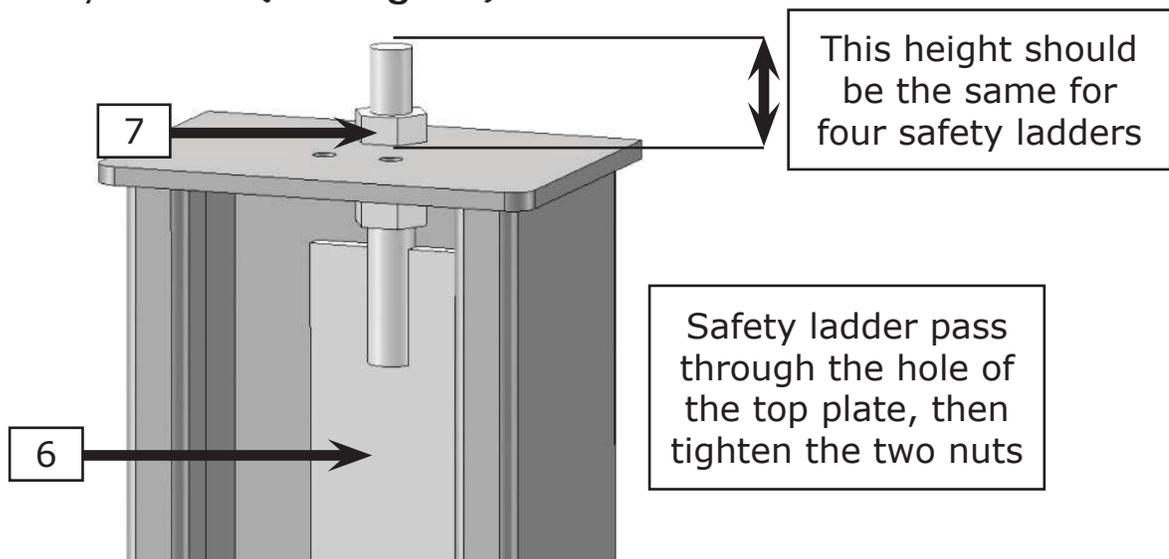
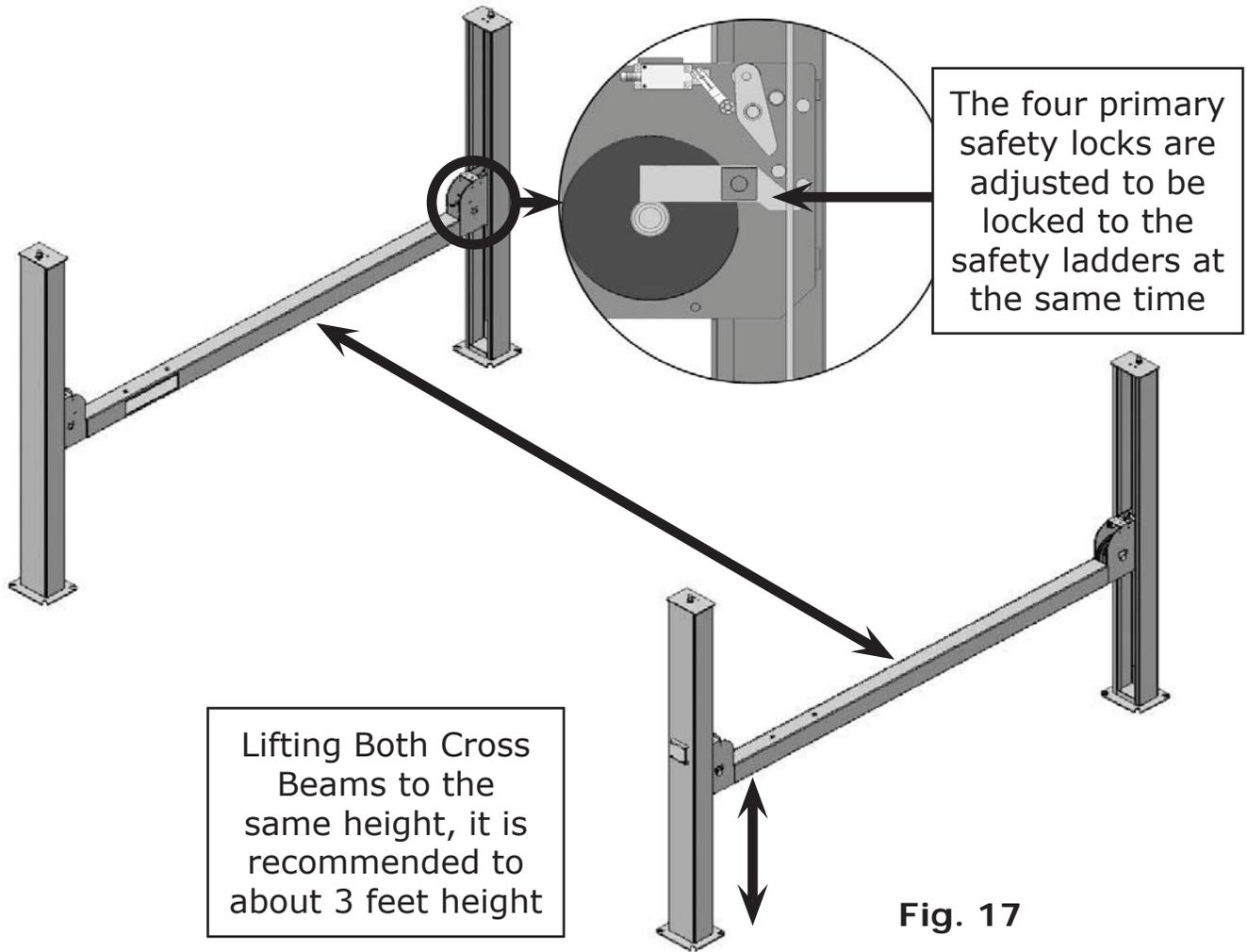


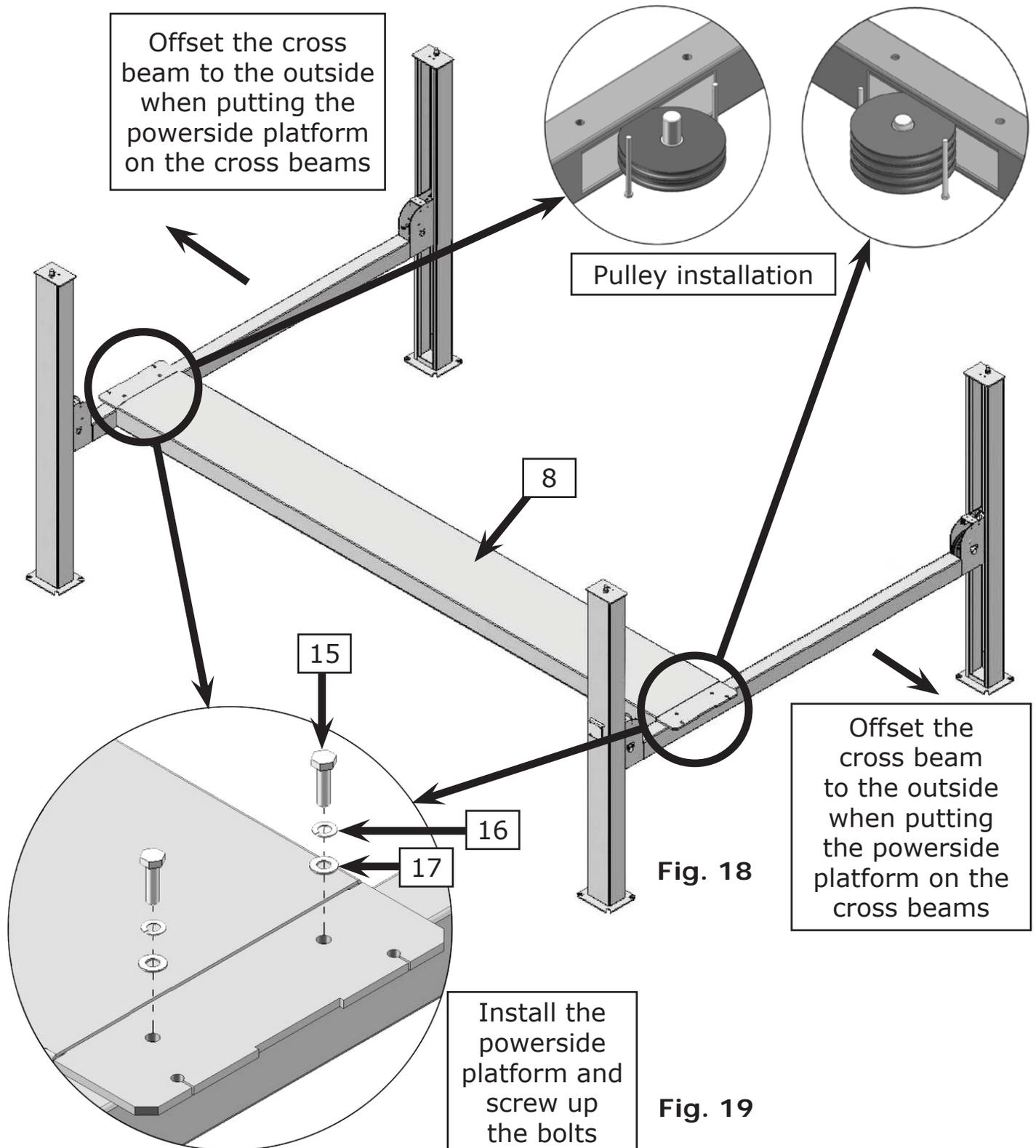
Fig. 16

G. Put The Cross Beams At The Same Height



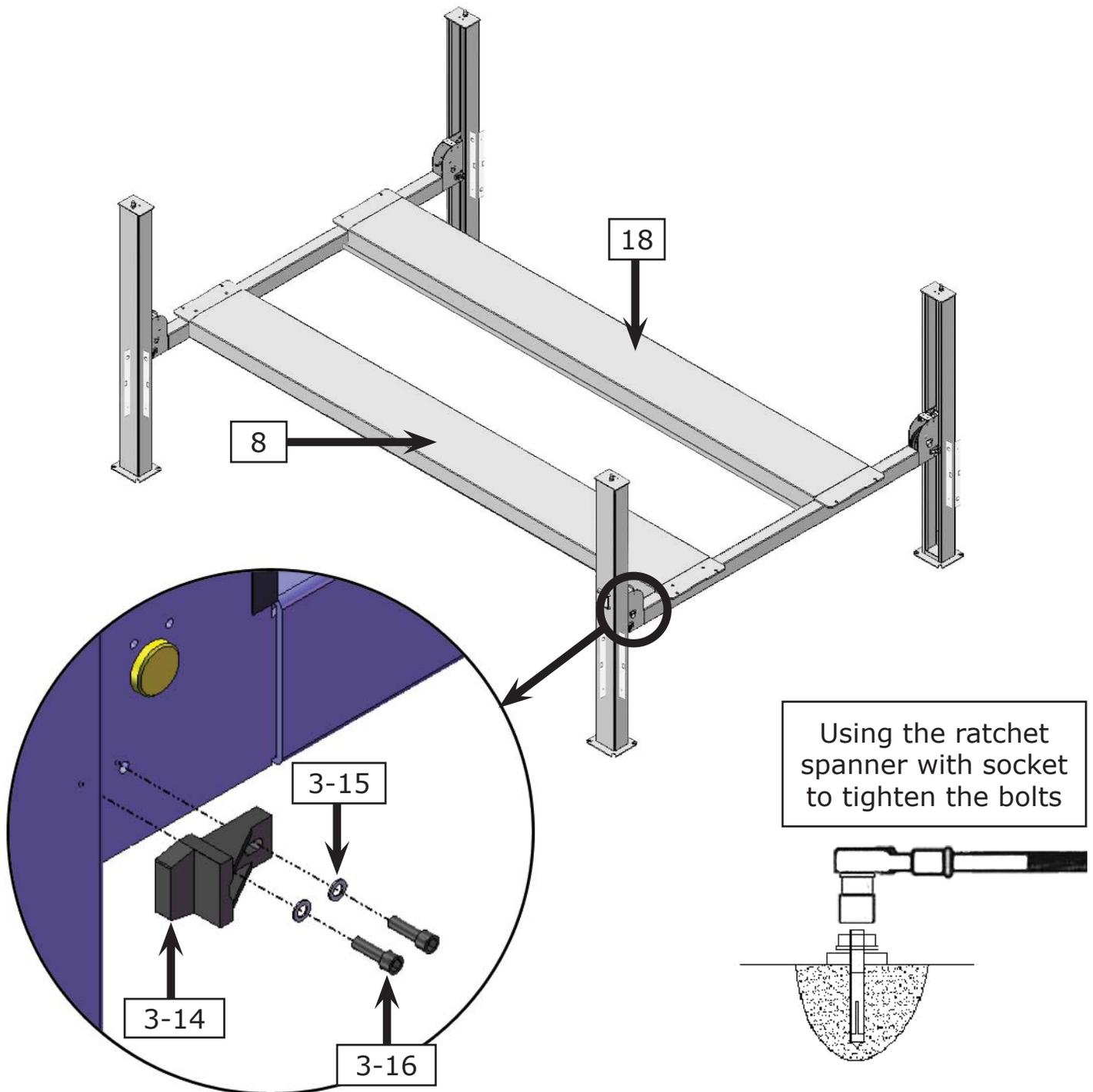
H. Install Powerside Platform

1. Put the powerside platform upon the cross beams by fork lift or manual, offset the cross beams to the outside till the pulleys of both platforms can set up into the cross beams (See Fig.18), Install the powerside platform and screw up the bolts (See Fig.19).



I. Assembly Of Offside Platform

Install the offside platform and slider block. Check the plumbness of columns with a level. Adjust with shims if necessary. Then tighten the anchor bolts (See Fig. 20).



Install the slider block

Note: The tightening torque for the anchor bolt is 117N.m

Fig. 20

J. Install Cables

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

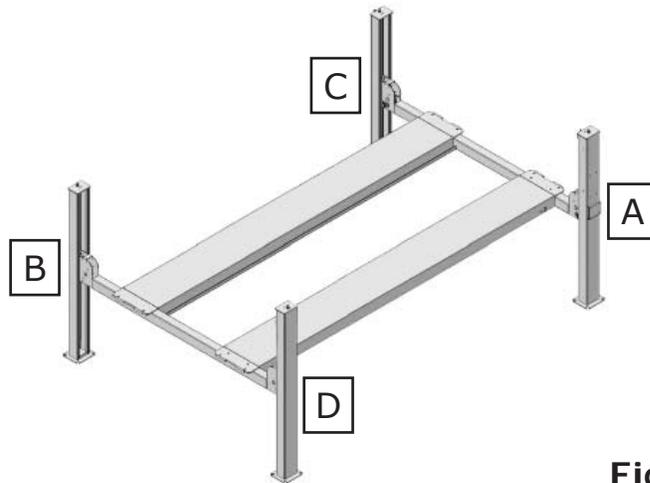
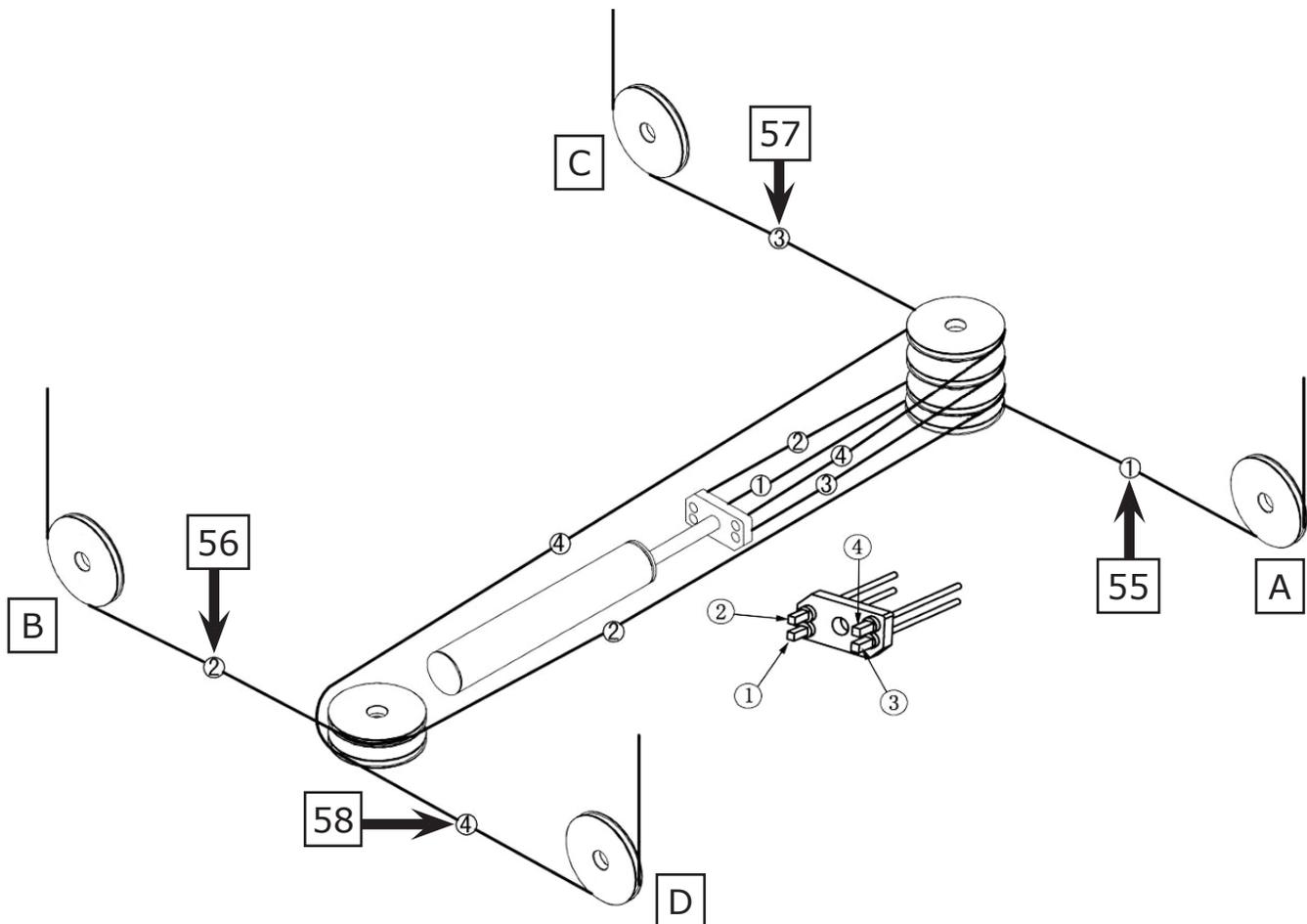


Fig. 21

Cable \ NO.	①	②	③	④
Length (inc. connecting fitting)	3749mm 147 5/8"	10260mm 404"	5350mm 210 5/8"	8654mm 340 3/4"



2. The cable pass through the cross beam to top plate of columns and be screwed with cable nuts (See Fig. 22).

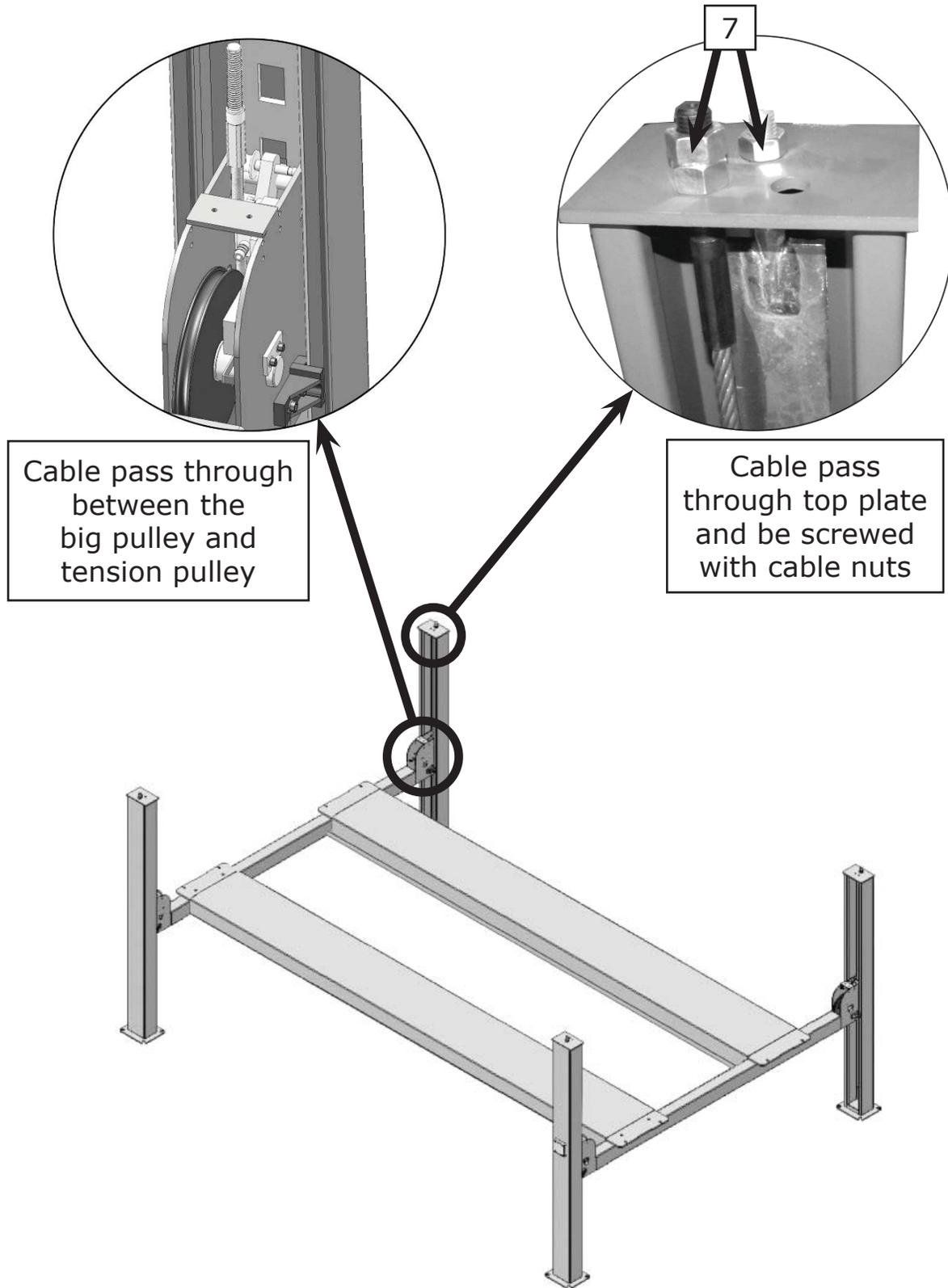


Fig. 22

3. Illustration for platform cables (See Fig. 23).

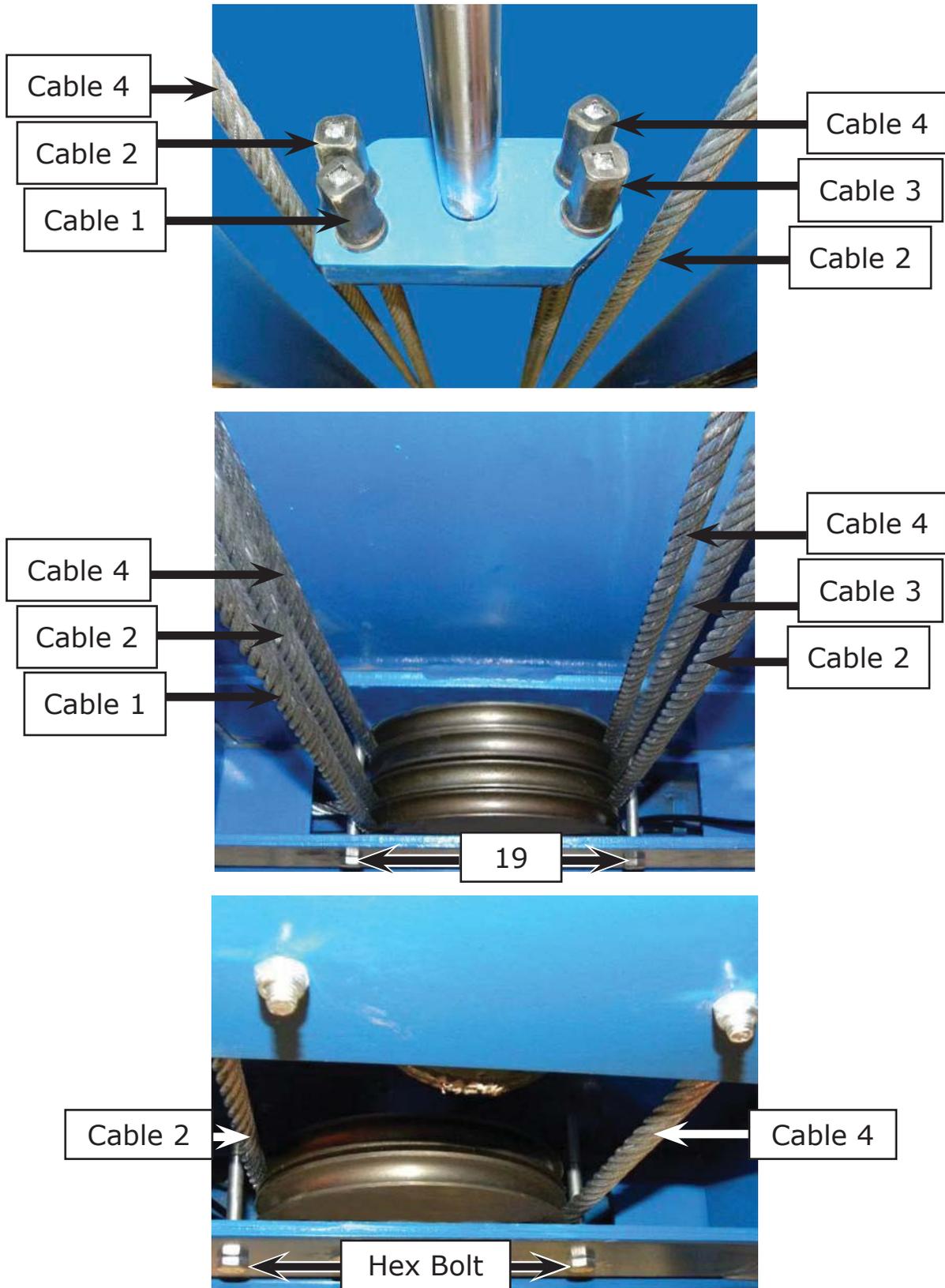


Fig. 23

K. Install Oil-Water Separator, The Manual Control Air Valve, And The Power Unit

Note: If after connecting the air valve to an air supply the air constantly leaks from the valve, then the air valve is installed upside down. Remove the air fittings, invert the air valve, and Re-install the air fittings.

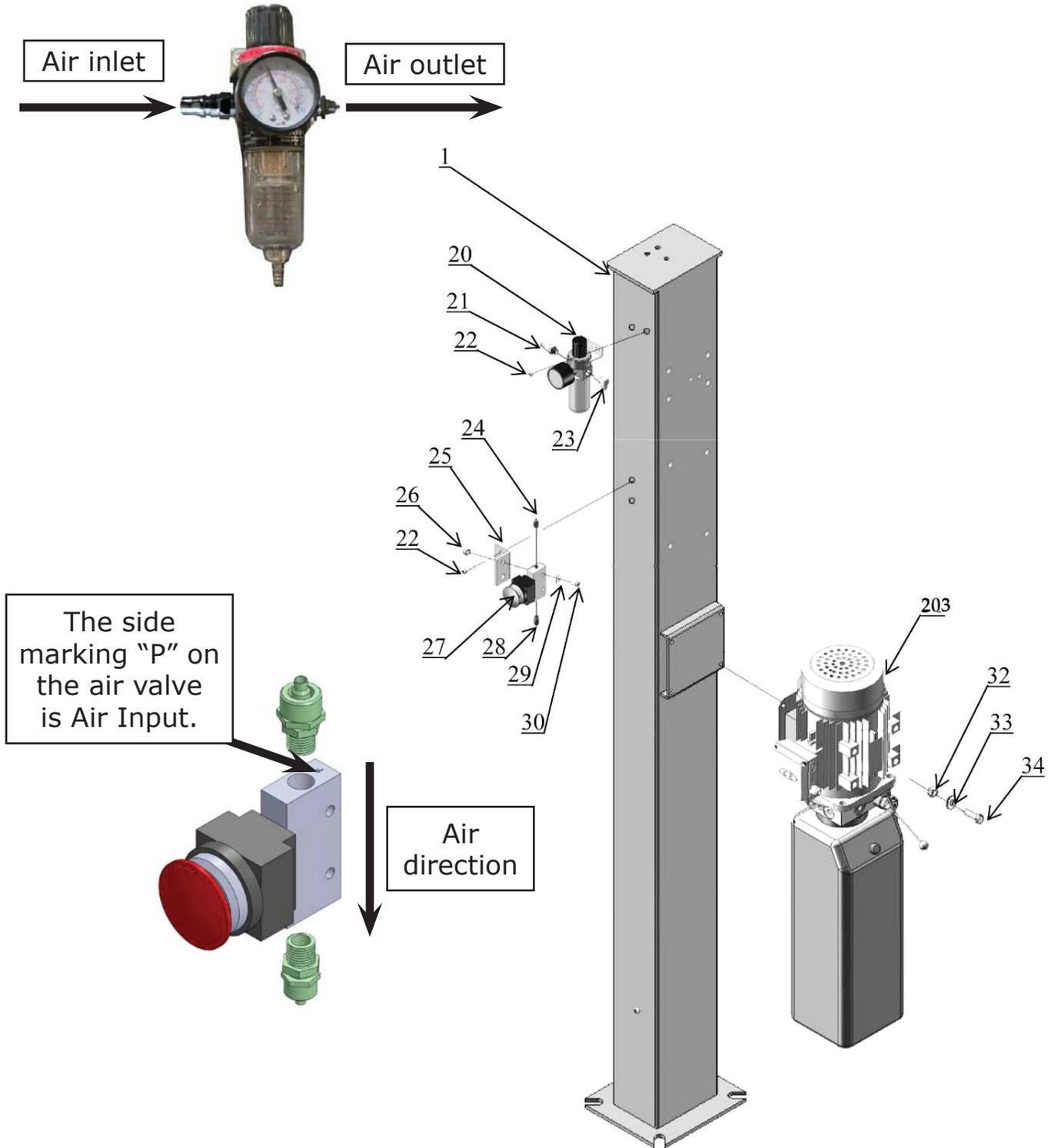
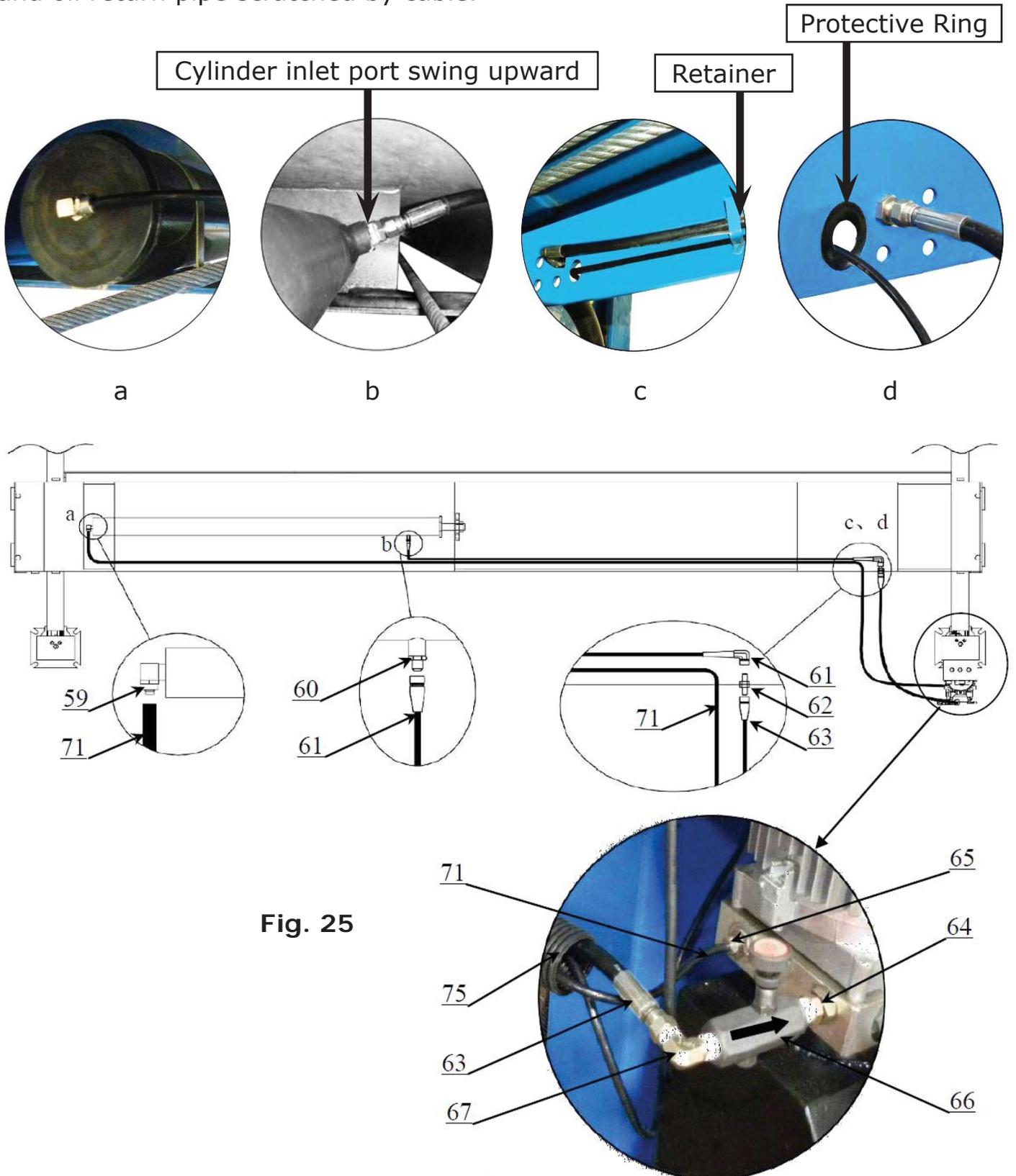


Fig. 24

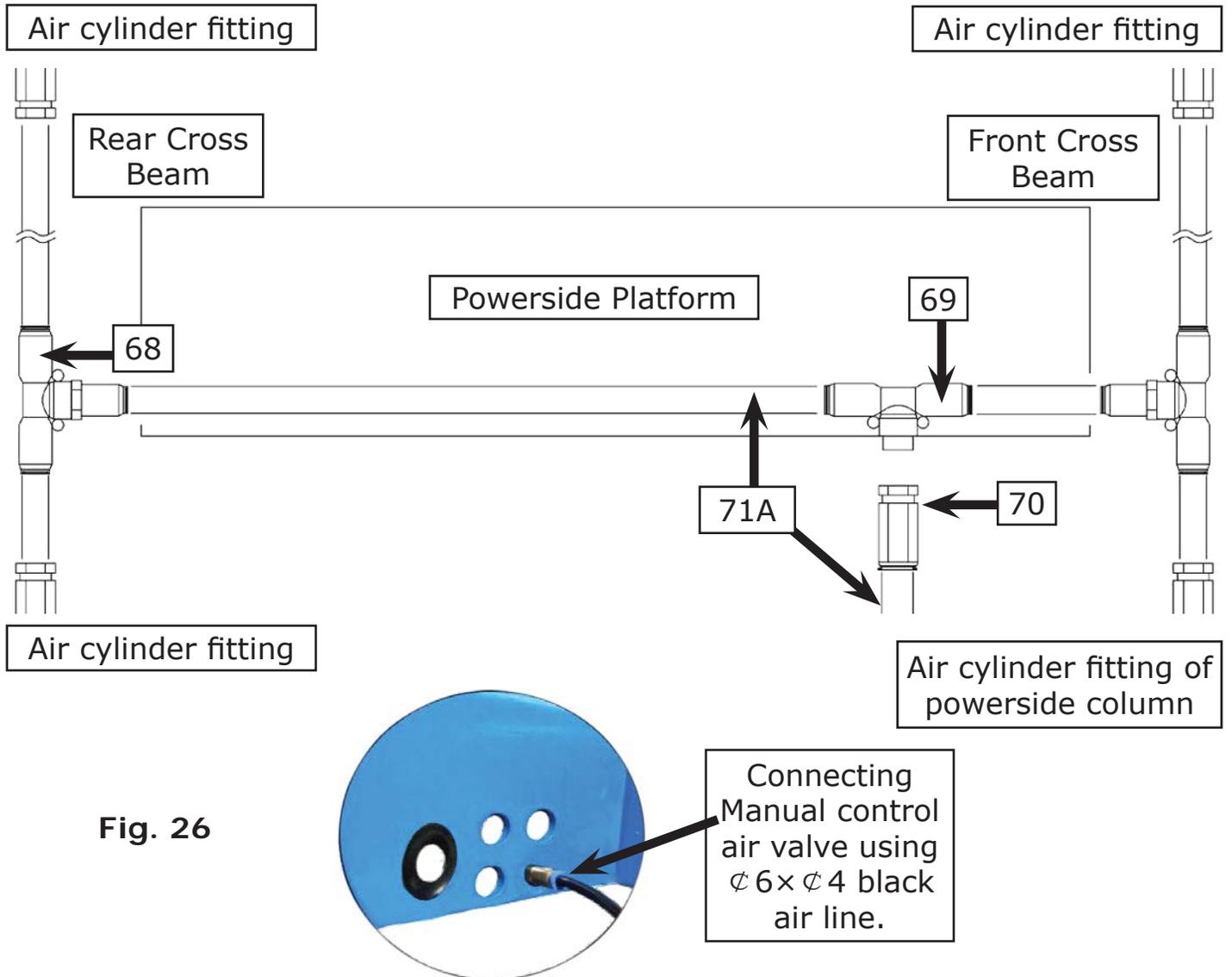
L. Install hydraulic system

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.



M. Install Air-Line System

1. Connecting front and rear Cross Beam using $\phi 6 \times \phi 4$ black air line (See Fig. 26).
2. Connecting Manual control air valve using $\phi 6 \times \phi 4$ black air line (See Fig. 26).



3. Connecting Oil Hoses and Air Lines (See Fig. 27).

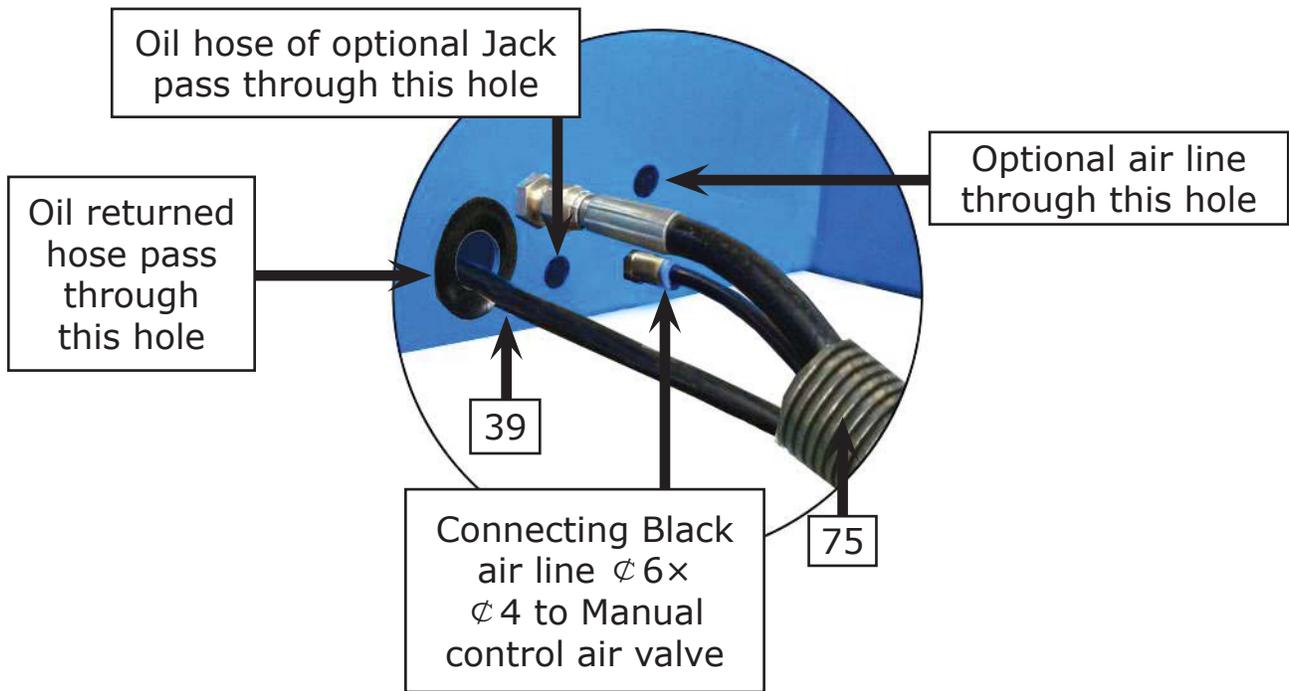
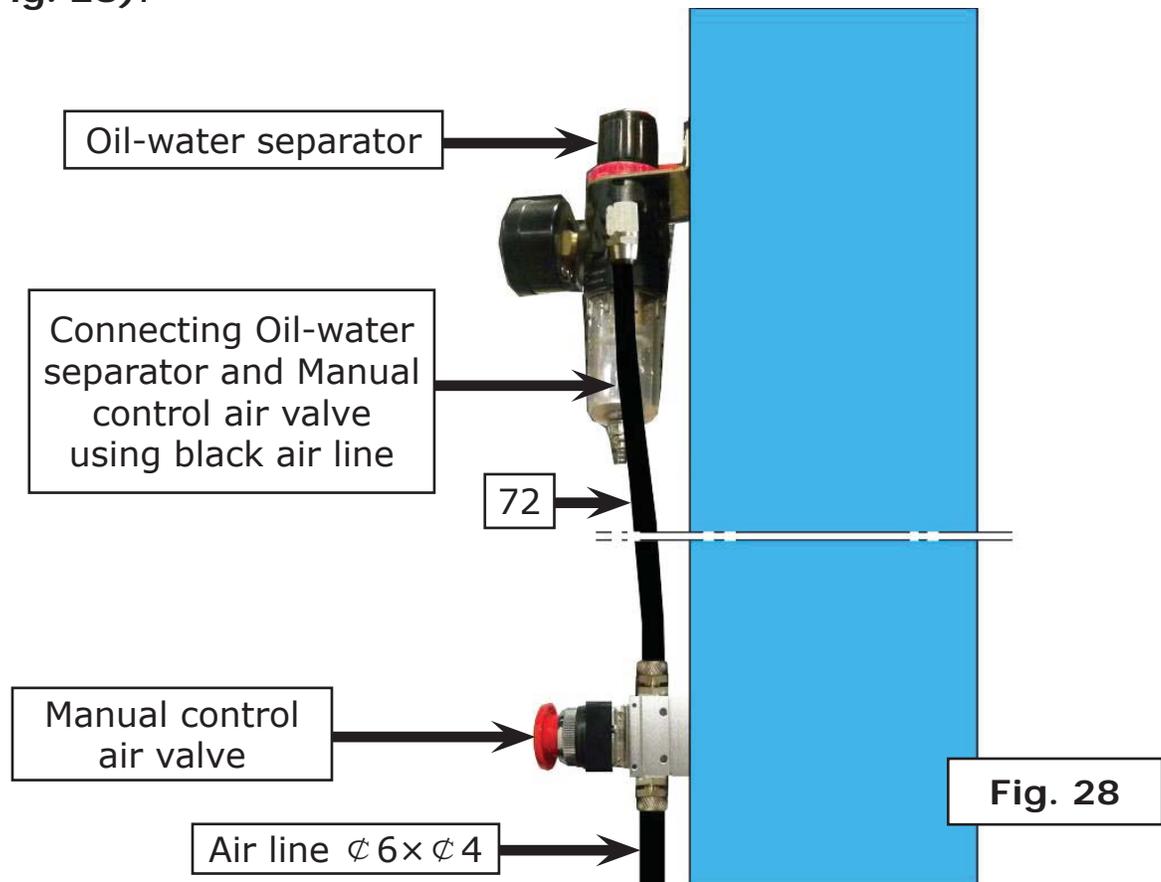
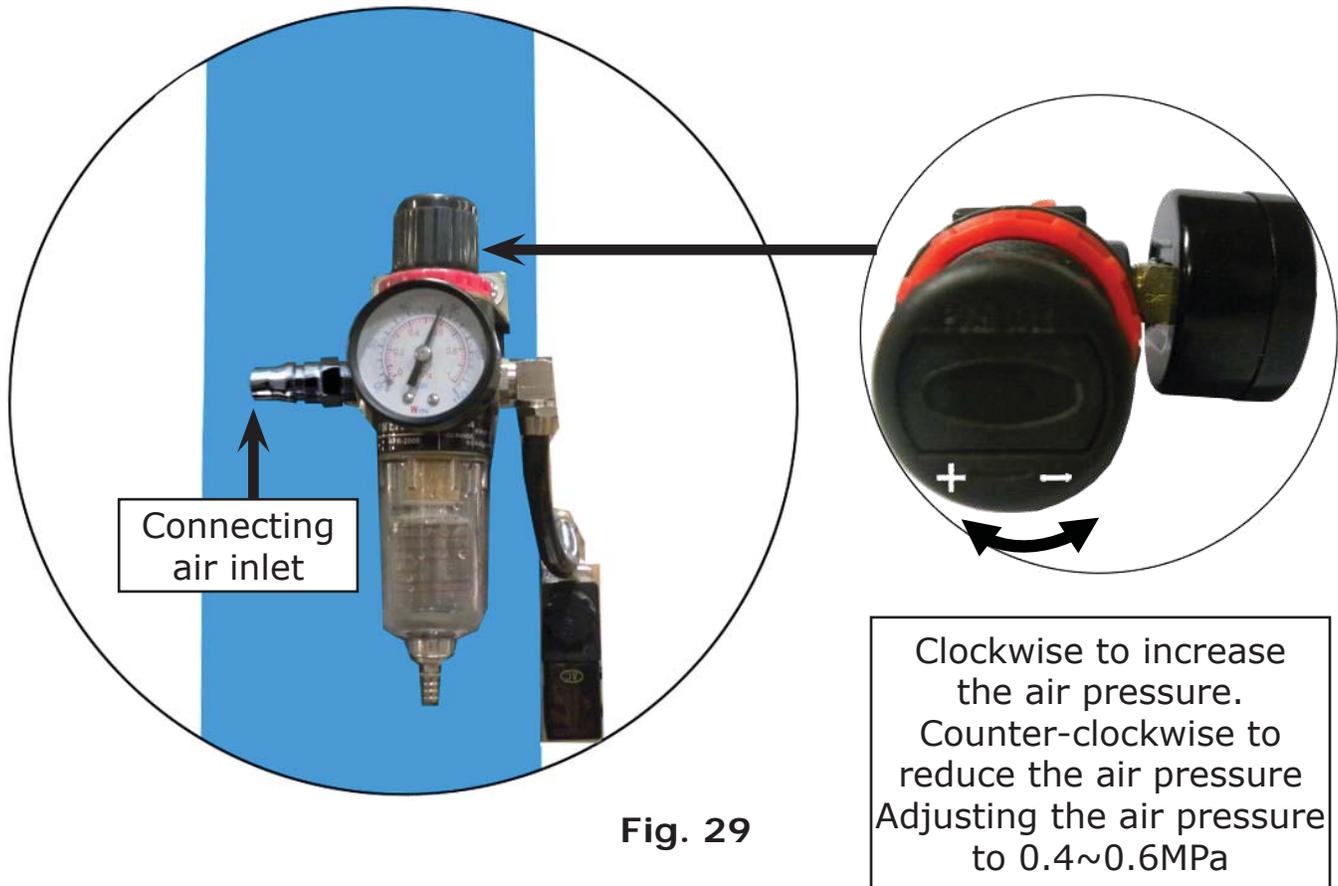


Fig. 27

4. Connecting oil-water separator and manual control air valve using air line (See Fig. 28).

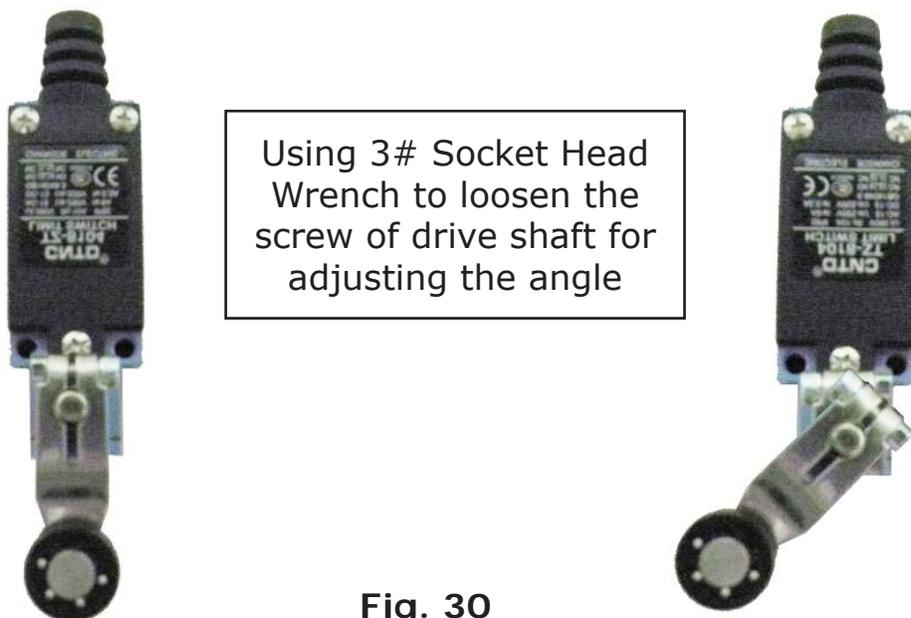


5. Connecting air inlet (Air supply pressure 5kg/cm²- 8kg/cm²), adjusting the air pressure of Oil-water separator to 0.4 - 0.6MPa (See Fig. 29).

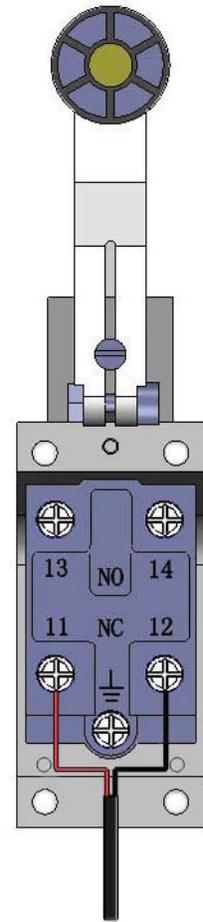
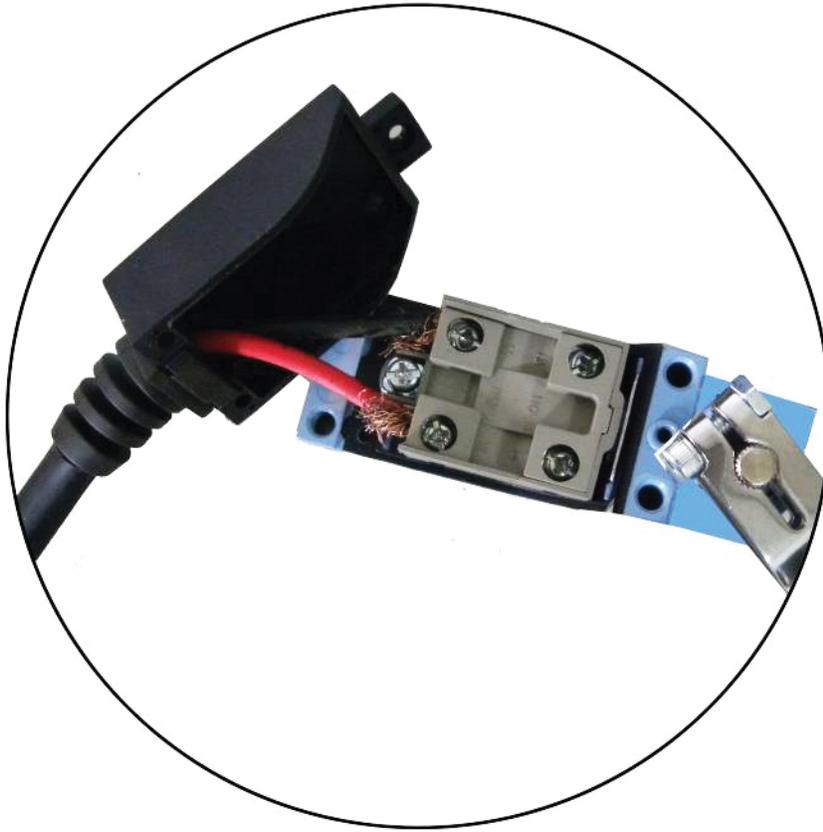


N. Install Limit Switch

1. Adjust the angle of drive shaft of limit switch on the powerside column (See Fig. 30).



2. Connecting the limit switch and cable wire (See Fig. 31).



NC: Normal contact

Fig. 31

3. Install limit switch (See Fig. 32).
4. To introduce the wire of limit switch into the protecting plastic hose then connect to the motor of power unit (See Fig. 33).

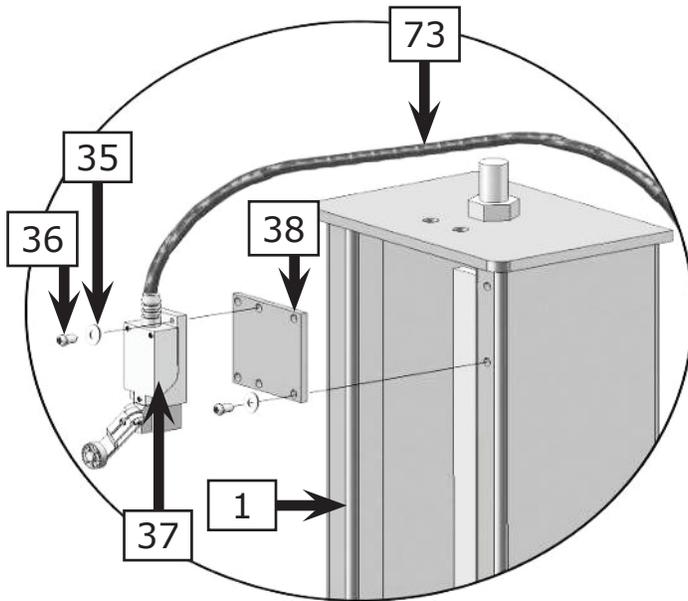


Fig. 32



Fig. 33

O. Install Electrical System

Connect the power source on the data plate of Motor.

1. **For the safety of operators, the power wiring must contact the floor well.**
2. **Pay attention to the direction of rotations when using 380V, three phase motors.**

Atlas Single phase motor (See Fig. 34).

1. Connecting the two power supply lines (fire wire **L** and zero wire **N**) to terminals of AC contactor marked **L1, L2** respectively.
2. Connecting the two motor wires to terminals of AC contactor marked **T1, T2**.
3. Connecting **A2** to **L2** of AC contactor.

- Connect the Limit Switch: Remove the line of Connecting Terminal 4# of control button and A1 of AC contactor firstly (See Fig. 35), then connect wire 12# of Limit Switch with Terminal 4# of control button and connect wire 11# with terminals A1 of AC contactor respectively (See Fig. 36).

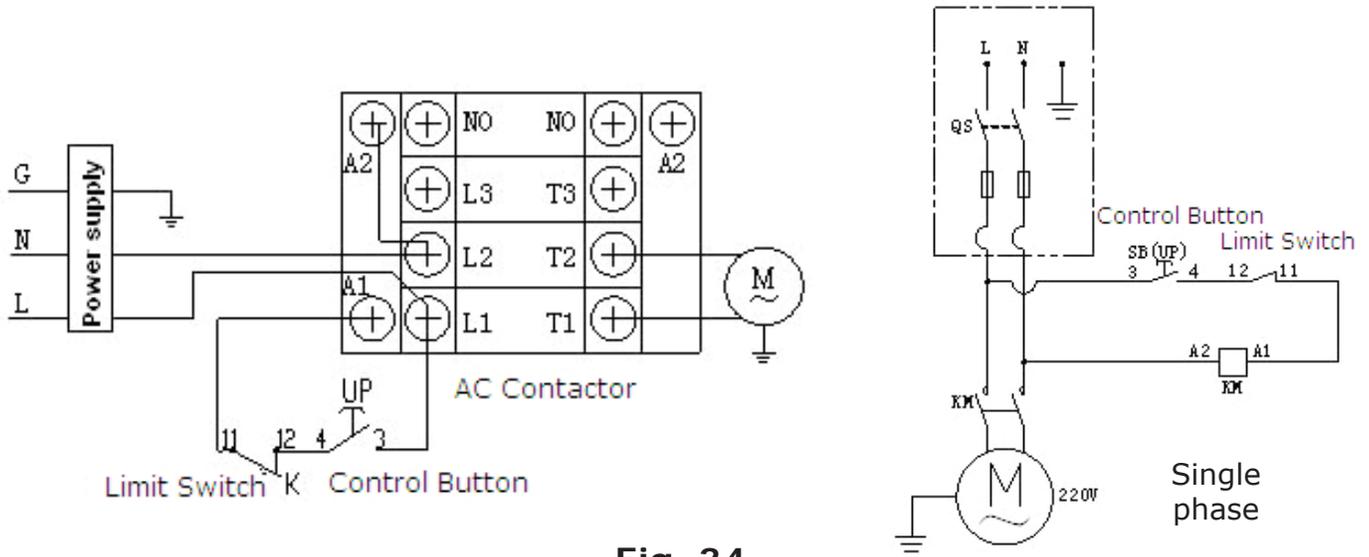


Fig. 34

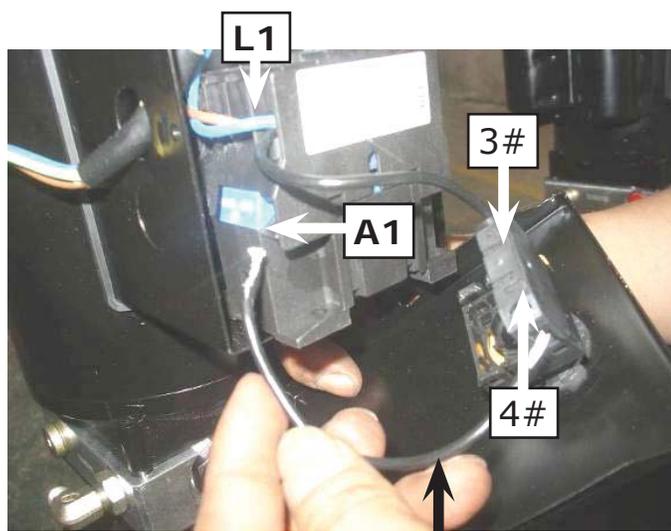


Fig. 35

Remove this line before connecting the Limit Switch

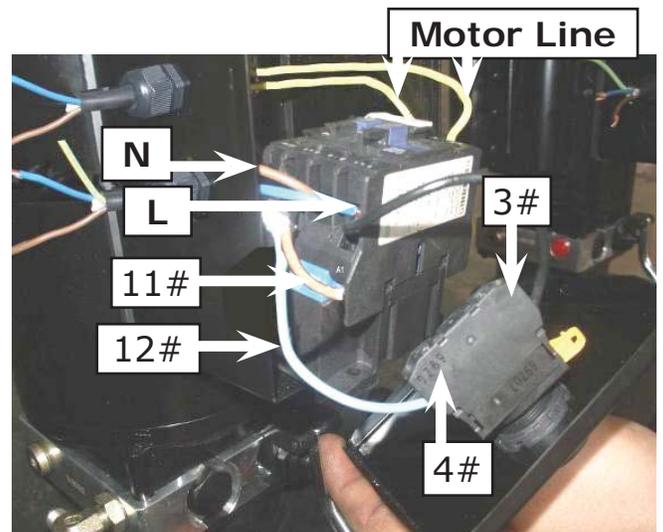


Fig. 36

Three phase motor

1. Circuit diagram (See Fig. 38)

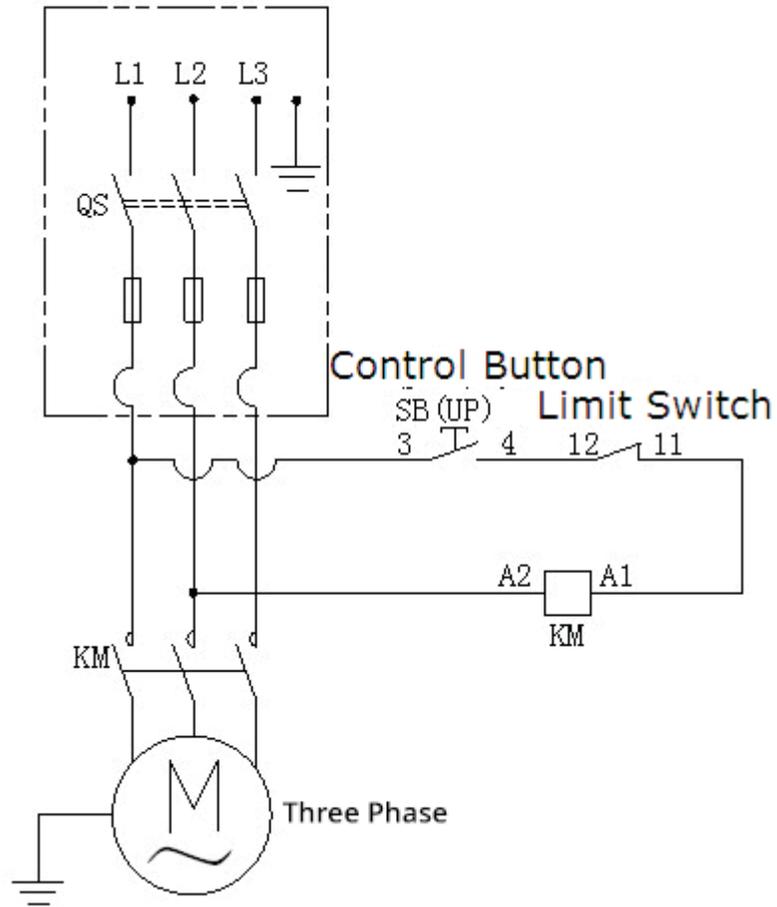


Fig. 38

2. Connection Step (See Fig. 39)

- a. The source wires (**L1, L2, L3**) connected with terminals of AC contactor marked **L1, L2, L3** respectively.
- b. Terminals **4#** of control button connected with wire **12#** of limit switch; wire **11#** connected with **A1** terminals of AC contactor.
- c. Terminals **3#** of control button connected with **L1** terminals of AC contactor.

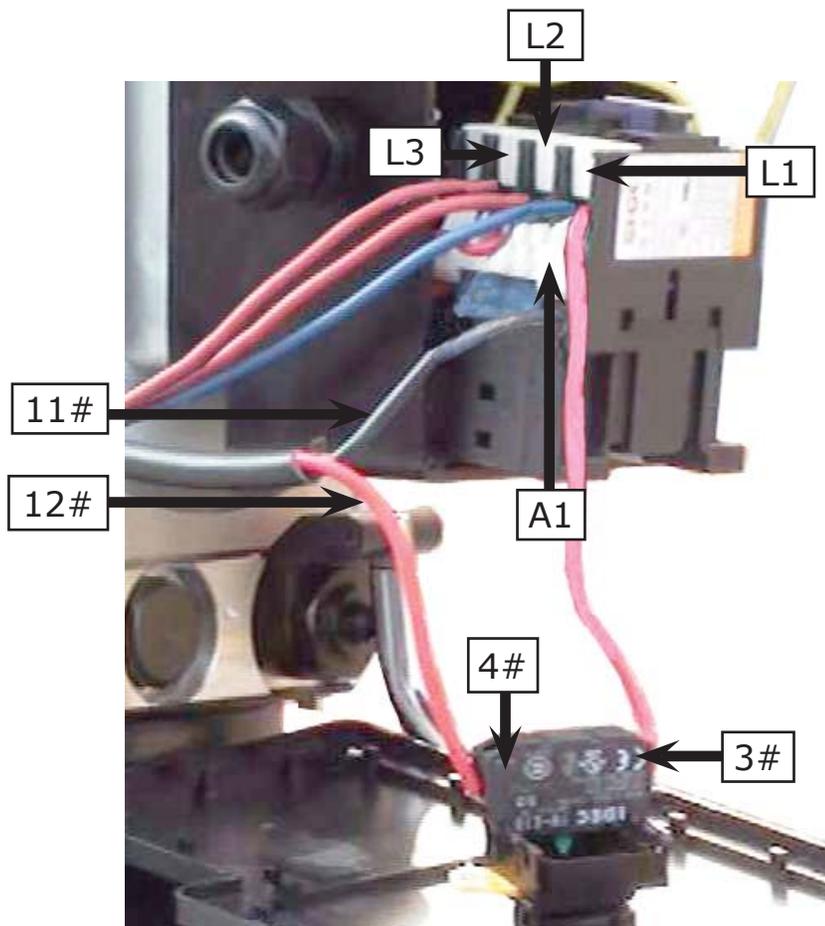
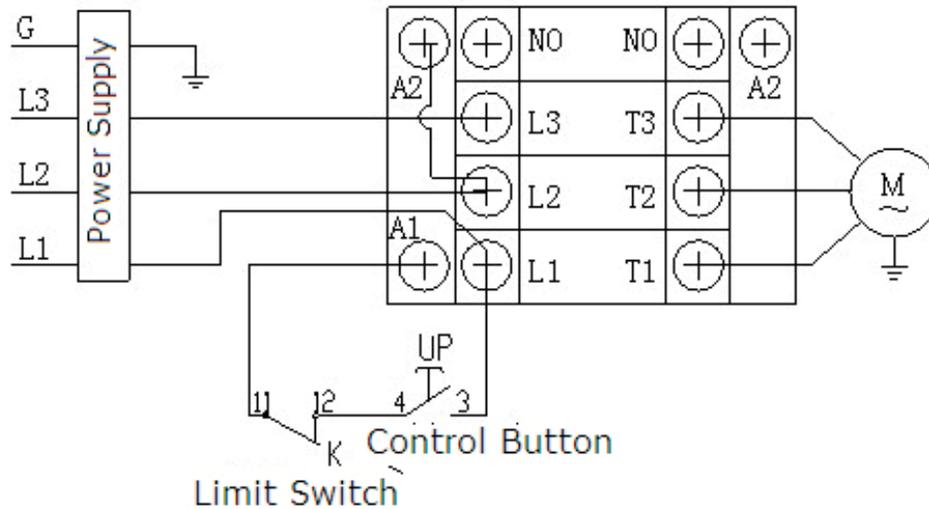


Fig. 39

P. Install spring and safety cover of cross Beam

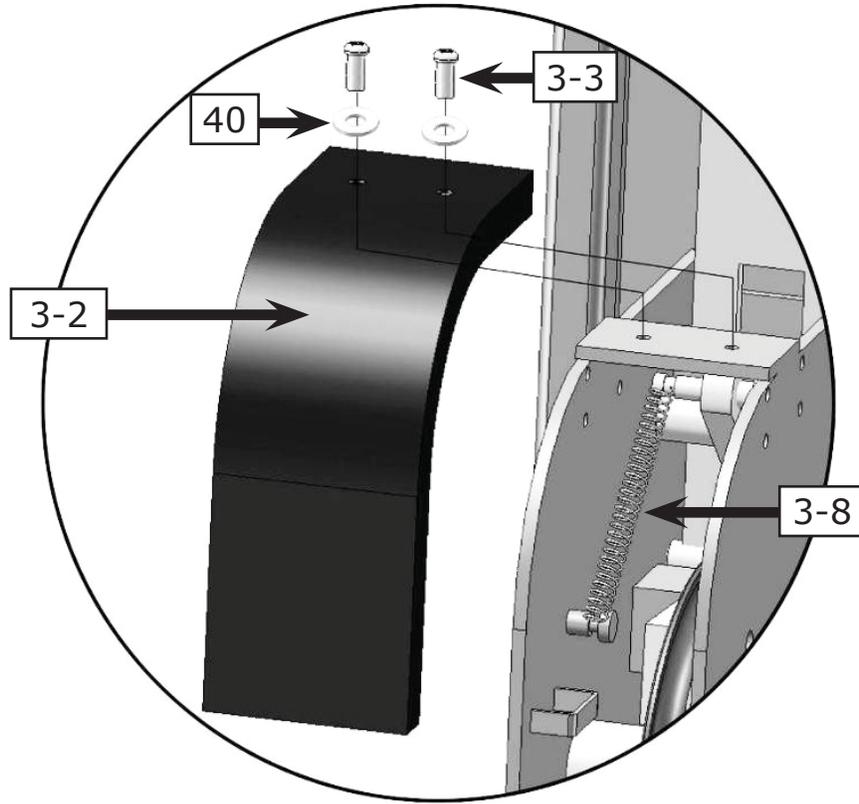
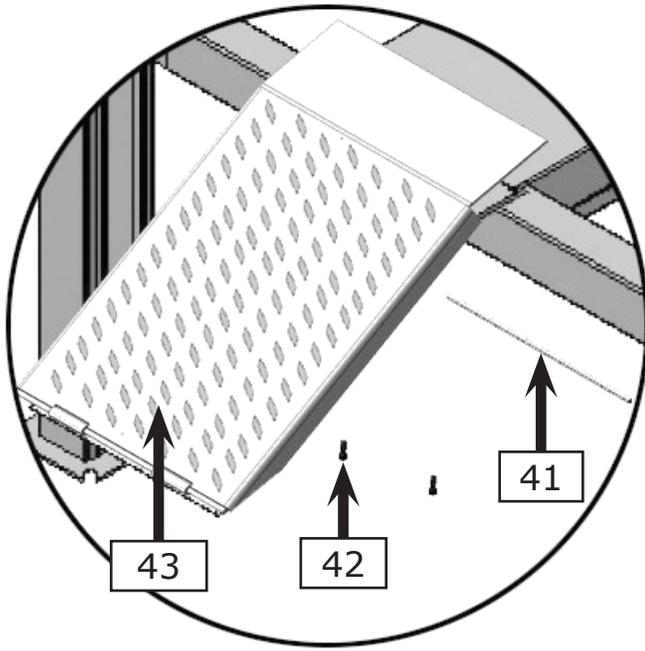
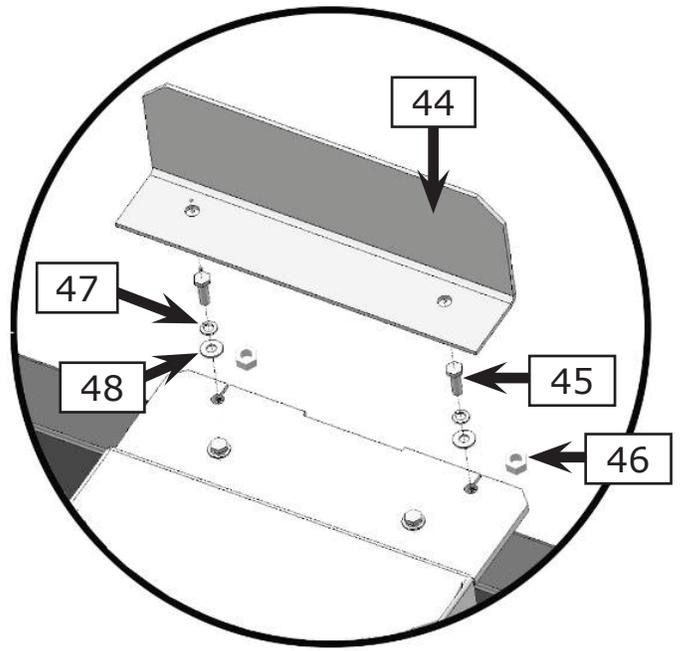


Fig. 40

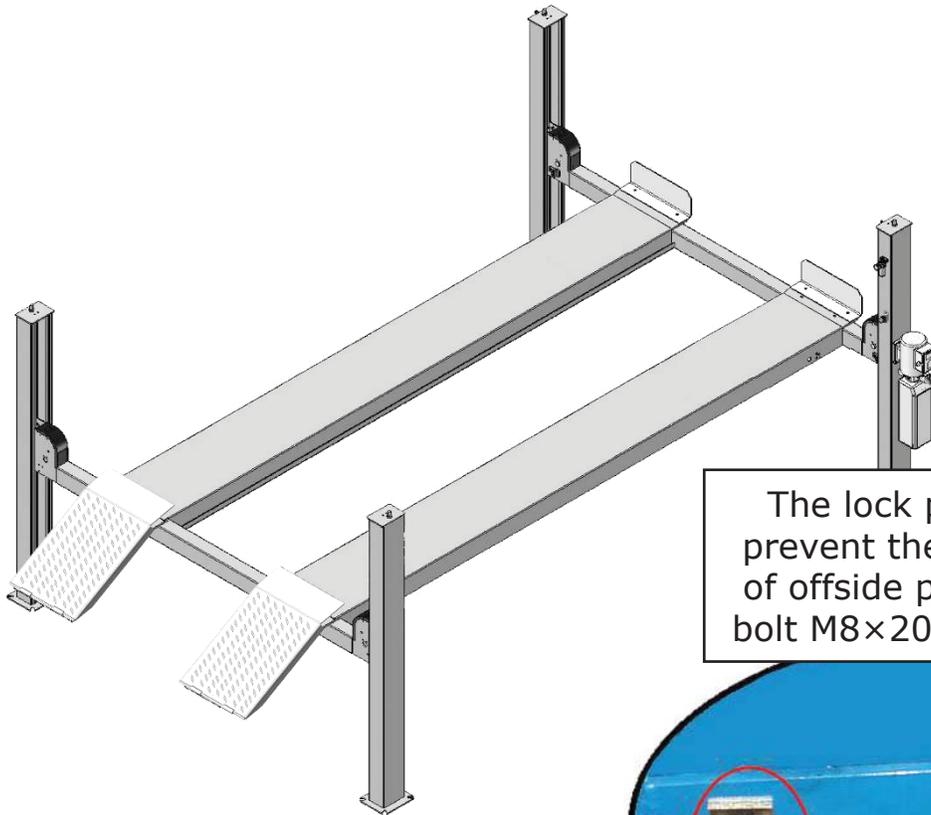
Q. Install drive-in ramp, tire stop plate, platform lock plates



Install Drive-in ramp



Install Tire stop plate



The lock plates are used to prevent the turning & slipping of offside platform, Using Hex bolt M8×20 for the connection.



Fig. 41

Exploded View

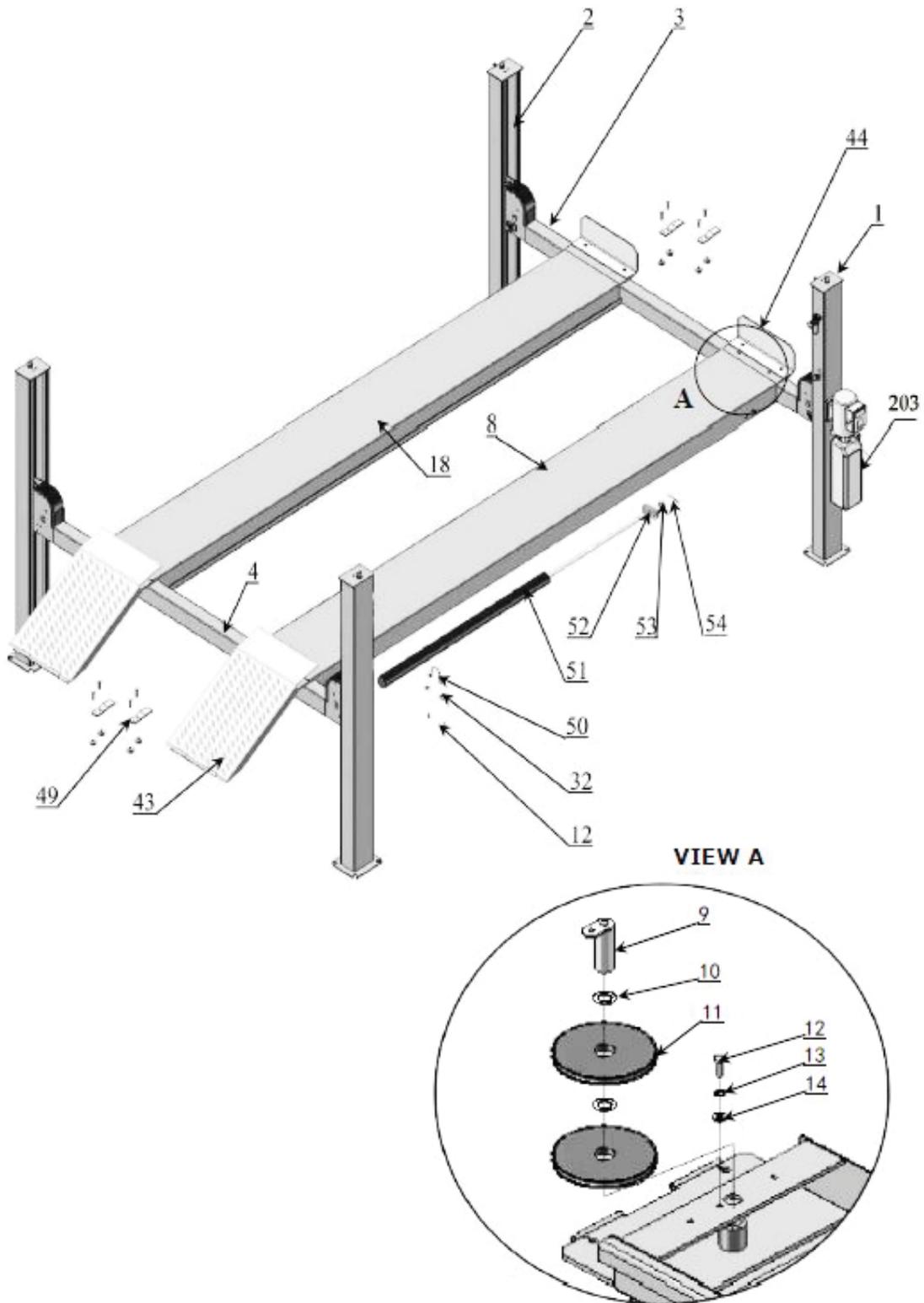


Fig. 42

Cross Beam

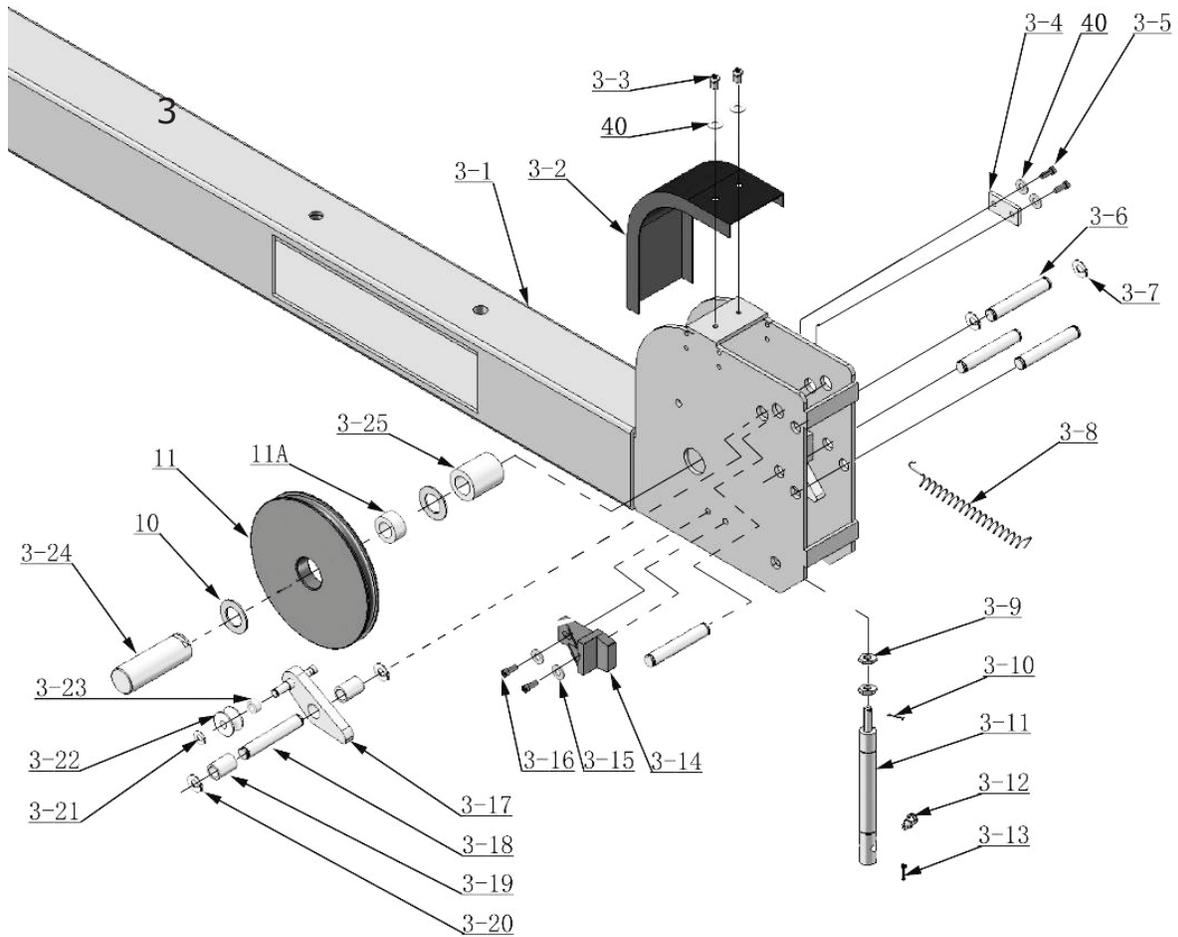


Fig. 43

Cylinders

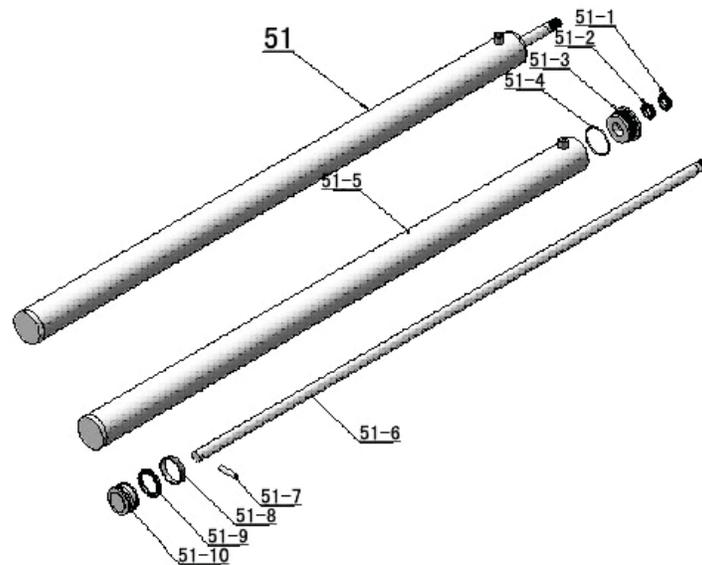
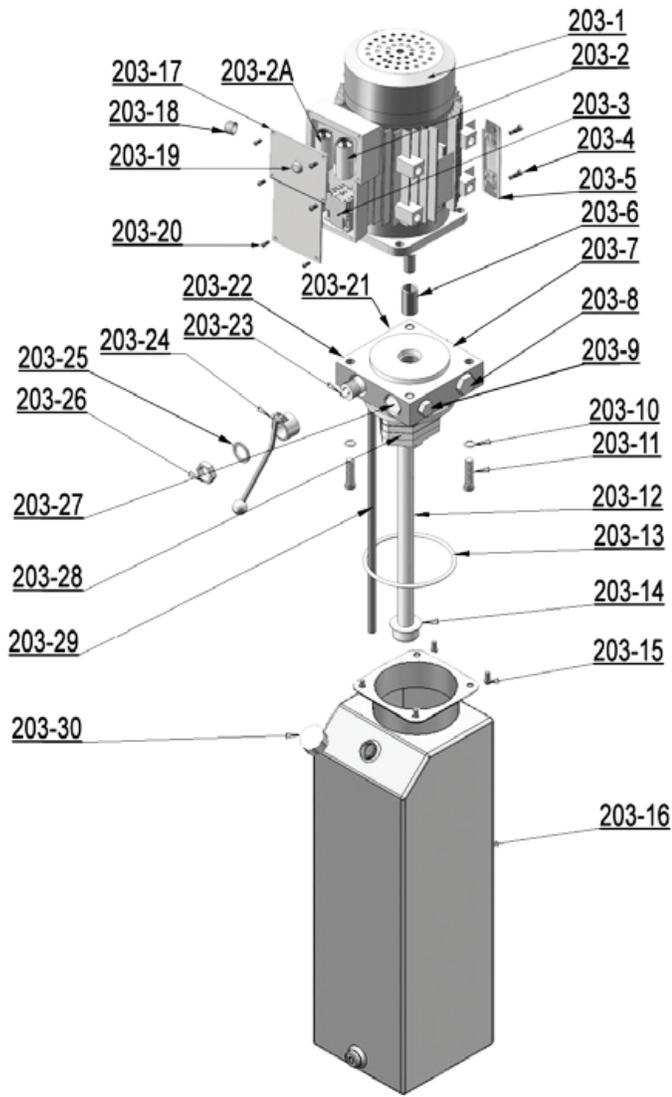
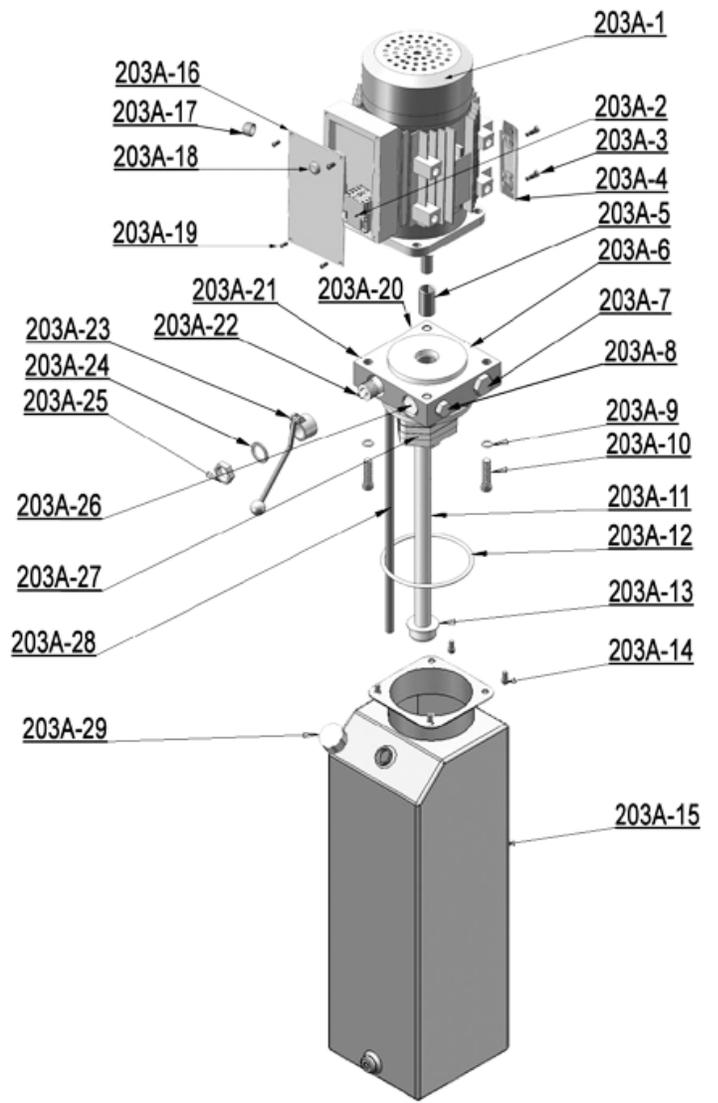


Fig. 44

Atlas Manual Power Unit



220V/60HZ/1 phase



380V/50HZ/3 phase

Fig. 45

Illustration of Hydraulic Valve for Atlas power unit

a. Atlas manual power unit, 220V/60HZ, Single phase (See Fig. 46)

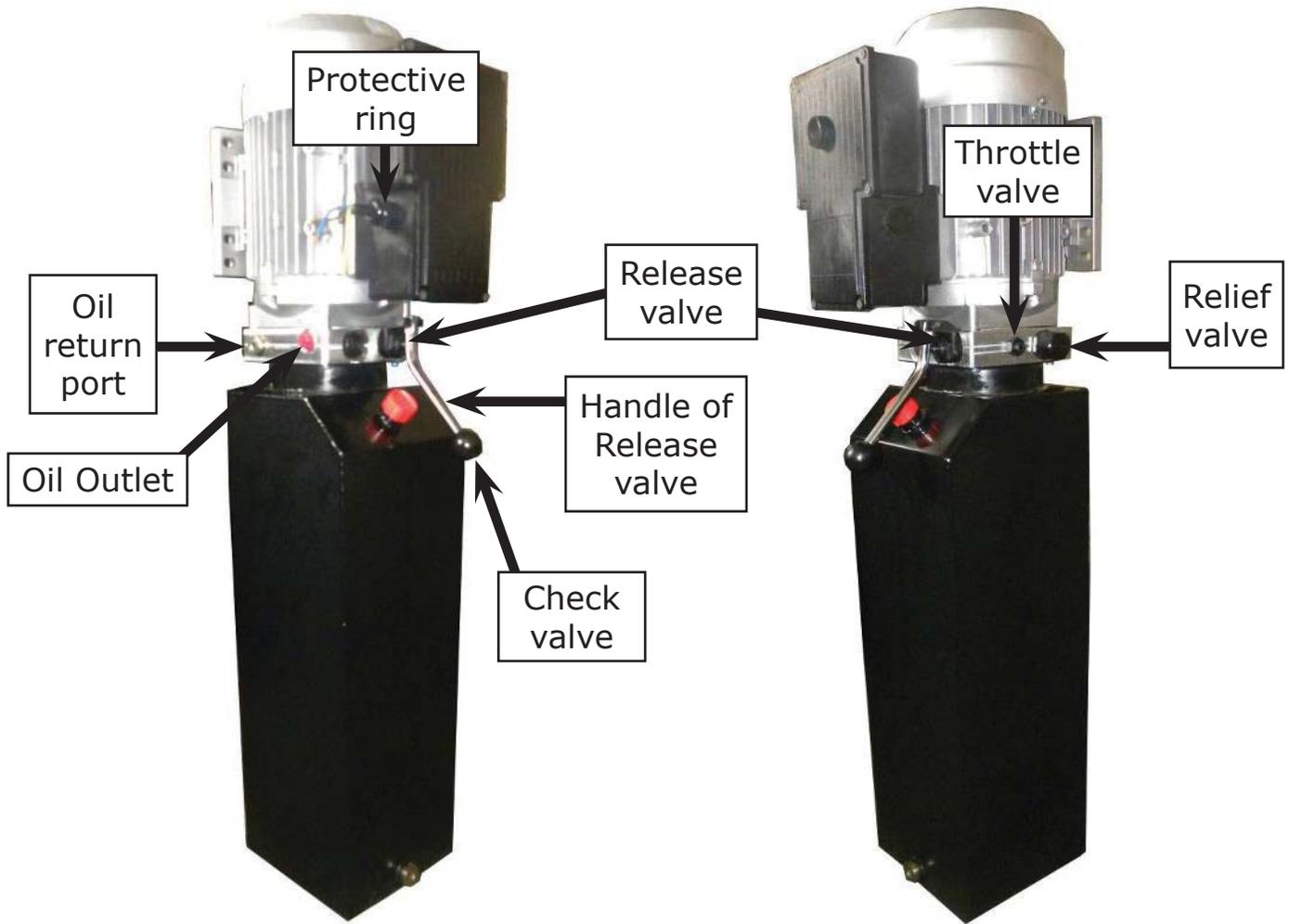


Fig. 46

b. Atlas manual power unit, 380V/50HZ, Three phase (See Fig. 47)

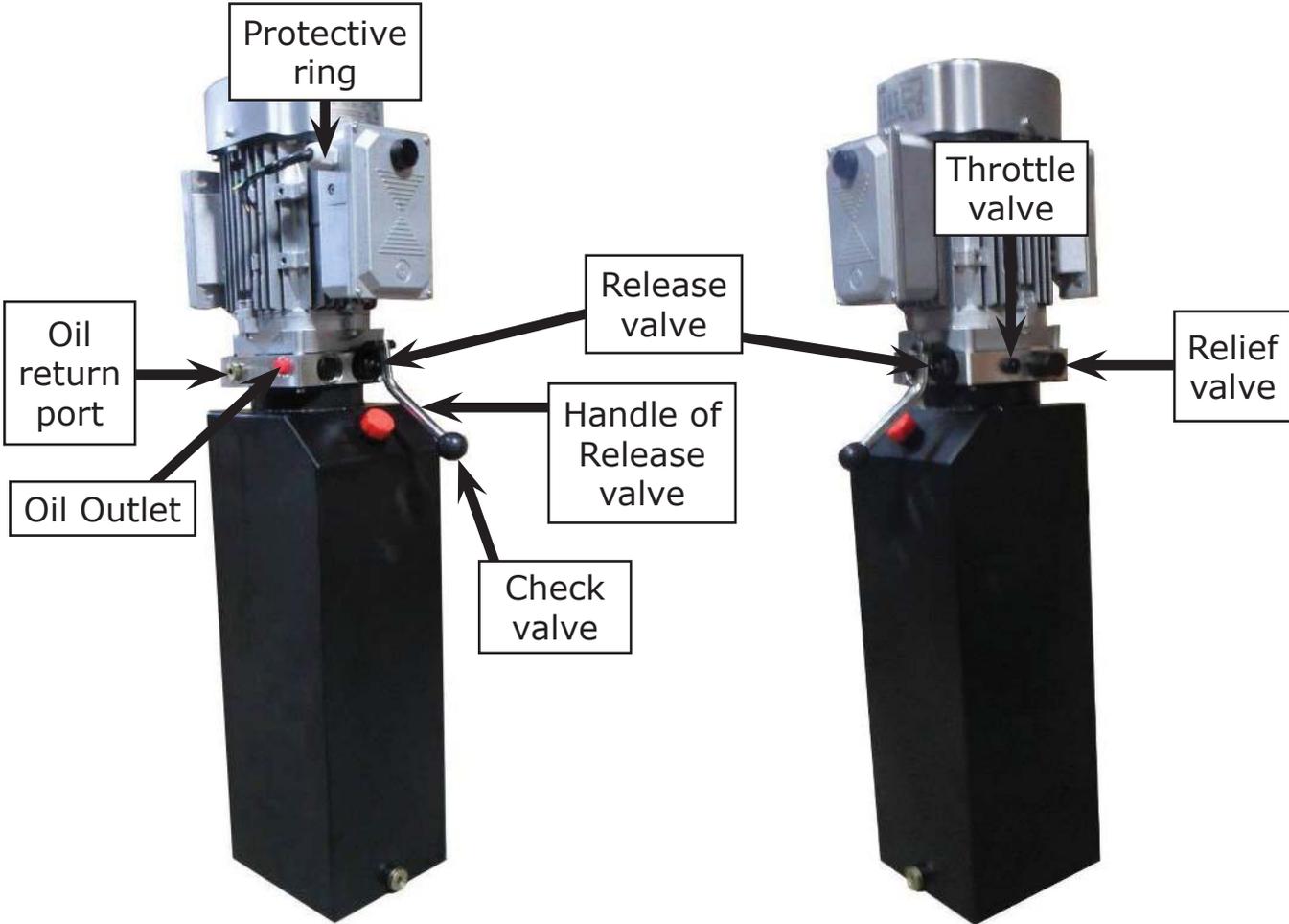


Fig. 47

Test Run

1. Fill the reservoir with approximately 12L 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

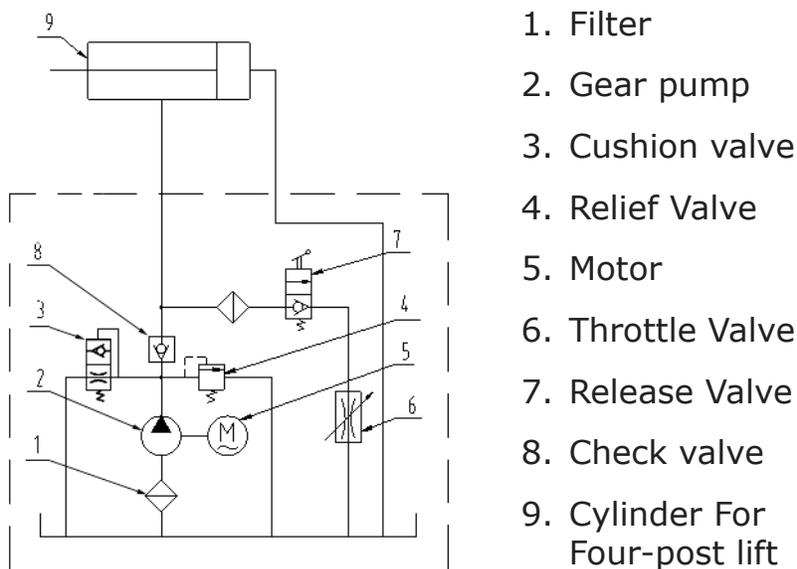


Fig. 48

Cylinder Bleeding Procedure

(Removing air from the hydraulic system)

PERFORM THIS PROCEDURE IMMEDIATELY AFTER INSTALLATION and BEFORE YOU PUT A VEHICLE ON THE LIFT

1. Press the UP Button to raise the runways 2 to 3 inches off of the safety locks. DO NOT RAISE THE RUNWAYS TO THE MAXIMUM HEIGHT.
2. Disengage the safety locks using the Mechanical Lock Release Handle or Air Lock Release Valve (depending on the model of 4 Post Lift you have). While activating the lock release, depress the Lowering Valve handle to lower the lift runways completely to the ground. Once the lift runways are resting on the ground maintain pressure on the lowering valve handle for several seconds more.



Air Lock Release Valve



Mechanical Lock Release Handle



Lowering Valve



Mechanical Lock & Lowering Valve Combination

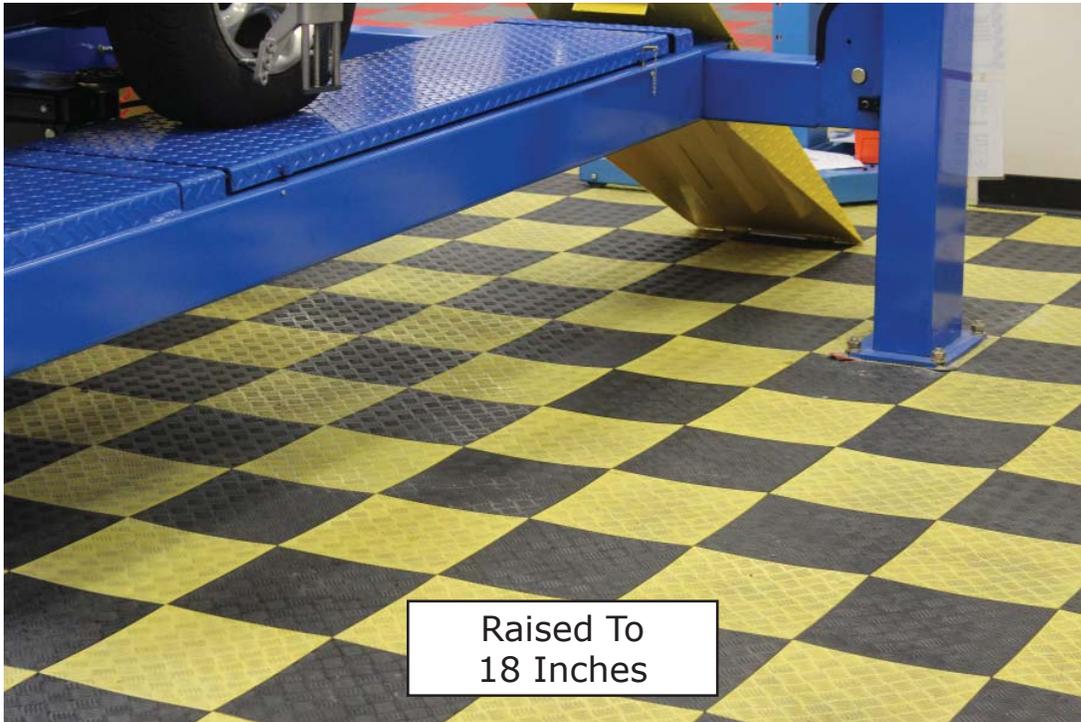


Air Lock Release Valve & Lowering Valve Combination



Resting On The Ground

3. Press the UP Button to raise your lift runways about 18 inches from the floor and repeat STEPS 1 & 2. Do this at least 2 or 3 more times. This will ensure that any air in the lifts hydraulic system is completely removed.



After doing this procedure the lift runways should travel up and down smoothly and at a consistent speed during operation.

Operation Instructions

To lift vehicle

1. Keep clear 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.

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.

Maintenance Schedule

Monthly:

1. Re-torque the anchor bolts to 117 Nm;
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.

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 can not 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

Parts List

Item	Part#	Description	QTY.
(See Fig.42, Fig.16, Fig.18-Fig.20, Fig.22, Fig.24, Fig.27, Fig.32-Fig.40-41)			
1	420011A	Powerside Column	1
2	420002	Offside Column	3
3	420006B	Front Cross Beam	1
4	420006C	Rear Cross Beam	1
5	209059	Anchor Bolt	16
6	410022	Safety Ladder	4
7	420175A	Hex Nut	16
8	440002A	Powerside Platform	1
9	420022A	Pulley Shaft Weldment	2
10	420023A	Washer	12
11	420024B	Pulley	10
11A	420132A	Bronze Bush for Pulley	10
12	209043	Hex Bolt	12
13	209034	Lock Washer	2
14	420144	Washer	2
15	420030	Hex Bolt	4
16	420137	Lock Washer	4
17	420029	Washer	4
18	440001	Offside Platform	1
19	420020B	Hex Bolt	4
20	420145	Oil-water Separator	1
21	420146	Straight Fitting for Air Line	1
22	209009	Cup Head Bolt	4
23	420076	900 Fitting for Air Line	1
24	420159	Straight Fitting for Air Line	1

25	420160	Fixing plate of Manual Control Valve	1
26	420161	Nylok Nut	2
27	420162	Manual Control Air Valve	1
28	420163	Straight Fitting For Air Line	1
29	420148	Washer	4
30	420164	Cup Head Bolt	2
203	440035	Manual Hydraulic Power Unit	1
32	209005	Nylok Nut	14
33	209004	Rubber Ring	4
34	209003	Hex Bolt	4
35	420152	Washer	6
36	206011	Cup Head Bolt	6
37	206013	Limit Switch	1
38	420010A	Fixing Plate For Limit Switch	1
39	420156	Protecting Rubber Ring	1
40	420045	Washer	16
41	420004	Pin for Drive-in Ramp	2
42	420005	Fixing Bolt	4
43	420003	Drive-in Ramp	2
44	420031	Tire Stop Plate	2
45	420136	Hex Bolt	4
46	206023A	Hex Nut	4
47	420026	Lock Washer	4
48	206006	Washer	4
49	420007	Platform Lock Plate	4
50	420012A	Fixing Ring For Oil Cylinder	1
51	420012	Oil Cylinder	1
52	420013	Cylinder Connecting Plate	1
53	420014	Hex Nut	1
54	201005	Split Pin	1
54A	620065	Shim	20

Parts For Cable (See Fig.21)			
55	440005A	No.① Cable	1
56	440006A	No.② Cable	1
57	440004A	No.③ Cable	1
58	440007A	No.④ Cable	1
Parts For Hydraulic System (See Fig.25)			
59	420166	900 Fitting	1
60	420119	Straight Fitting For Cylinder	1
61	440008	Oil Hose	1
62	420120	Extended Straight Fitting (with Nut)	1
63	420121	Oil Hose	1
64	440009	Straight Fitting For Power Unit	1
65	420095	Straight Fitting	1
66	440011	Needle Valve	1
67	420097	900 Fitting	1
Parts For Air Line System (See Fig.26, Fig.28)			
68	420124	T-Fitting For Air Line	2
69	420125	T-Fitting For Air Line	1
70	420126A	Straight Fitting For Air Line	1
71	420195A	Oil Return Hose	1
71A	420131B	Black Air Line	1
72	420167A	Black Air Line	1
Parts for Circuit System (See Fig.27, Fig.32-33)			
73	420177	Wire Cable	1
74	420178	Protecting Plastic Hose	1
75	420016B	Protecting Plastic Hose	1
76	440501	Part box	1

Parts For Cross Beam (See Fig.40, Fig. 43)			
3-1	420169	Front Cross Beam Assy.	1
3-2	420051B	Pulley Safety Cover	4
3-3	209009	Cup Head Bolt	8
3-4	420044	Limit Plate	4
3-5	420138	Socket Bolt	8
3-6	420038	Pin	12
3-7	420037	Snap Ring	24
3-8	420033	Spring	4
3-9	209021	Hex Nut	8
3-10	420049	Split Pin	4
3-11	420048	Air Cylinder	4
3-12	420047	Fitting for Air Cylinder	4
3-13	420046	Split Pin	8
3-14	420042	Plastic Slider	8
3-15	209033	Washer	16
3-16	420043	Socket Bolt	16
3-17	420175	Slack-cable safety lock (left & right)	2/ea.
3-18	420171	Pin	8
3-19	420172	Pin Bush For Slack-cable Safety Lock	8
3-20	206019	Snap Ring	16
3-21	209010	Snap Ring	4
3-22	420035	Tension Pulley	4
3-23	420174	Spacer	4
3-24	420041A	Pulley Pin	4
3-25	420040A	Pulley Bush	4
Parts For Cylinder (See Fig.44)			
51-1	420059	Dust Ring	1
51-2	420060	Y- Ring	1
51-3	420061	Head Cap	1

51-4	420062	O- Ring	1
51-5	420063	Bore Weldment	1
51-6	420064	Piston Rod	1
51-7	420065	Pin	1
51-8	420066	Support Ring	1
51-9	420067	Y- Ring	1
51-10	420068	Piston	1

Parts For Atlas Manual Power Unit, 220V/60Hz/1 phase (See Fig.45)

203-1	440014	Motor	1
203-2	440015	Start Capacitor	1
203-2A	440016	Running Capacitor	1
203-3	209112	AC Contactor	1
203-4	440017	Socket Bolt	4
203-5	440018	Motor Fix Frame	2
203-6	209083A	Motor Connecting Shaft	1
203-7	440019	Valve Body	1
203-8	209085A	Relief Valve	1
203-9	209113	Throttle valve	1
203-10	209086A	Lock Washer	4
203-11	209087A	Socket Bolt	4
203-12	440020	Inlet Pipe	1
203-13	209089A	O-Ring	1
203-14	209090A	Filter	1
203-15	440021	Hex Bolt	4
203-16	440022	Reservoir	1
203-17	440023	Cover of Motor Terminal Box	1
203-18	209109	Protective Ring	1
203-19	209099A	Control Switch	1
203-20	440024	Screw	6
203-21	209110A	Oil Return Port	1

203-22	209100A	Oil Outlet	1
203-23	209101A	Release Valve	1
203-24	209102A	Handle For Release Valve	1
203-25	209103A	Washer	1
203-26	209104A	Hex Nut	1
203-27	209105A	Check Valve	1
203-28	440025A	Gear Pump	1
203-29	440026	Oil Return Pipe	1
203-30	440027	Filter Cap	1
Parts For Atlas Manual Power Unit, 380V/50Hz/3phase (See Fig.45)			
203A-1	440028	Motor	1
203A-2	209112	AC Contactor	1
203A-3	440017	Socket Bolt	4
203A-4	440018	Motor Fix Frame	2
203A-5	209083A	Motor Connecting Shaft	1
203A-6	440019	Valve Body	1
203A-7	209085A	Relief Valve	1
203A-8	209113	Throttle valve	1
203A-9	209086A	Lock Washer	4
203A-10	209087A	Socket Bolt	4
203A-11	440020	Inlet Pipe	1
203A-12	209089A	O-Ring	1
203A-13	209090A	Filter	1
203A-14	440021	Hex Bolt	4
203A-15	440022	Reservoir	1
203A-16	440029	Cover of Motor Terminal Box	1
203A-17	209109	Protective Ring	1
203A-18	209099A	Control Switch	1
203A-19	440024	Screw	2
203A-20	209110A	Oil Return Port	1

203A-21	209100A	Oil Outlet	1
203A-22	209101A	Release Valve	1
203A-23	209102A	Handle For Release Valve	1
203A-24	209103A	Washer	1
203A-25	209104A	Hex Nut	1
203A-26	209105A	Check Valve	1
203A-27	440025	Gear Pump	1
203A-28	440026	Oil Return Pipe	1
203A-29	440027	Filter Cap	1

Warranty



This item is warranted for five (5) years on structural components, two (2) years on hydraulic cylinders, and one (1) year on electric or air / hydraulic power units from invoice date. Wear items are covered by a 90 day warranty.

This LIMITED warranty policy does **not include a labor** warranty.

NOTE: ALL WARRANTY CLAIMS MUST BE PRE-APPROVED BY THE MANUFACTURER TO BE VALID.

The Manufacturer shall repair or replace at their option for this period those parts returned to the factory freight prepaid, which prove after inspection to be defective. This warranty will not apply unless the product is installed, used and maintained in accordance with the Manufacturers installation, operation and maintenance instructions.

This warranty applies to the ORIGINAL purchaser only, and is non-transferable. The warranty covers the products to be free of defects in material and workmanship but, does not cover normal maintenance or adjustments, damage or malfunction caused by: improper handling, installation, abuse, misuse, negligence, carelessness of operation or normal wear and tear. In addition, this warranty does not cover equipment when repairs or alterations have been made or attempted to the Manufacturer's products.

THIS WARRANTY IS EXCLUSIVE AND IS LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FROM A PARTICULAR PURPOSE, AND ALL SUCH IMPLIED WARRANTIES ARE EXPRESSLY EXCLUDED.

THE REMEDIES DESCRIBED ARE EXCLUSIVE AND IN NO EVENT SHALL THE MANUFACTURER, NOR ANY SALES AGENT OR OTHER COMPANY AFFILIATED WITH IT OR THEM, BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OF OR DELAY IN PERFORMANCE OF THIS WARRANTY. THIS INCLUDES, BUT IS NOT LIMITED TO, LOSS OF PROFIT, RENTAL OR SUBSTITUTE EQUIPMENT OR OTHER COMMERCIAL LOSS.

PRICES: Prices and specifications are subject to change without notice. All orders will be invoiced at prices prevailing at time of shipment. Prices do not include any local, state or federal taxes.

RETURNS: Products may not be returned without prior written approval from the Manufacturer.

DUE TO THE COMPETITIVENESS OF THE SELLING PRICE OF THESE LIFTS, THIS WARRANTY POLICY WILL BE STRICTLY ADMINISTERED AND ADHERED TO.