



ATLAS 414A

14,000 lb. Capacity
Four-Post Alignment Lift

INSTALLATION & OPERATION MANUAL



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I. PRODUCT FEATURES AND SPECIFICATIONS

ALIGNMENT MODEL FEATURES

- Manual control air-operated system.
- Mechanical self-lock and air-driven safety release.
- Manual hydraulic power system, cable-assist.
- Skid proof diamond plate platforms.
- Two adjustable turntable positions.
- Adjustable platform and adjustable safety lock ladders.
- Optional Rolling Jack: With Air-operated hydraulic pump.
- Steel Ball Bearing Assist Turn Plates

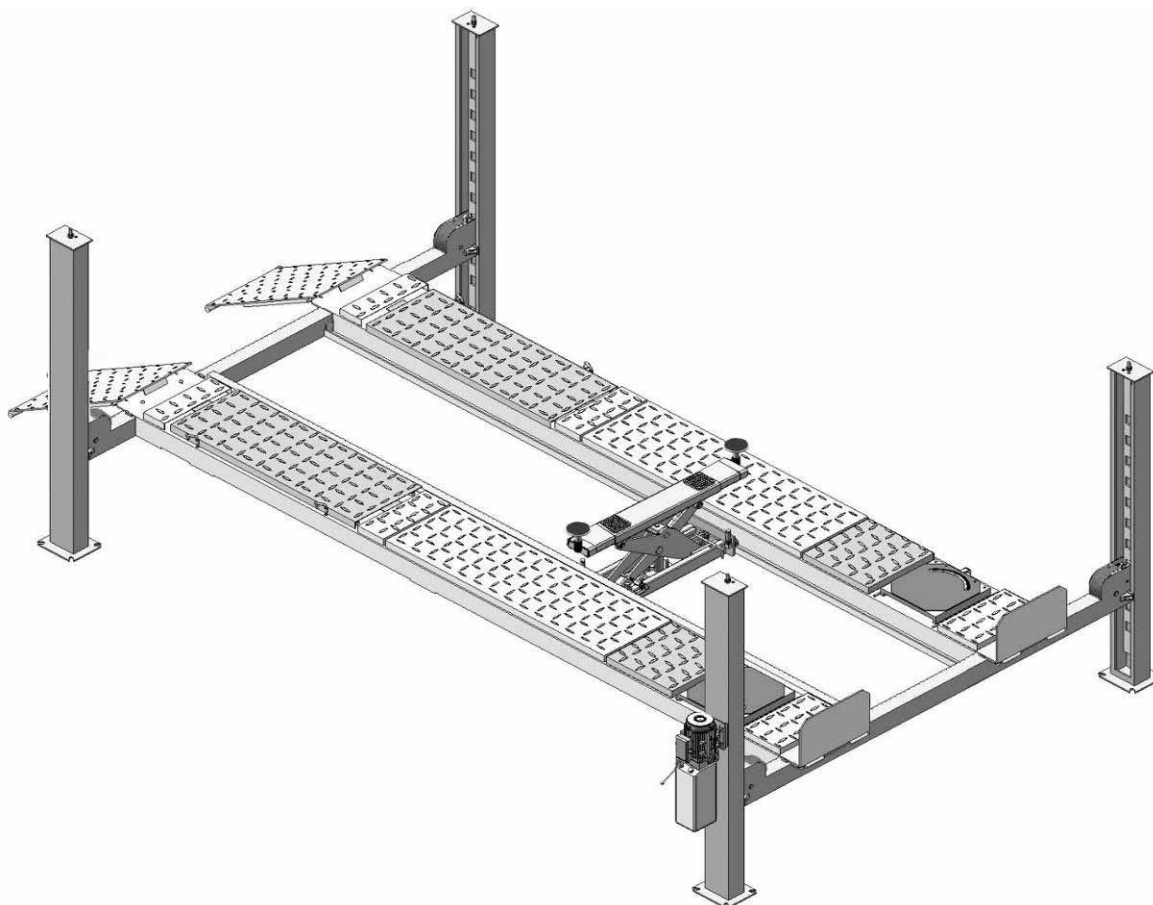


Fig. 1

ALIGNMENT MODEL SPECIFICATIONS

| Model | Lifting Capacity | Lifting Height | Lifting Time | Overall Length (Inc. Ramps) | Overall Width | Width Between Post | Gross Weight | Motor |
|-------|------------------|----------------|--------------|-----------------------------|---------------|--------------------|--------------|--------------------------|
| 414A | 14,000 lbs | 76 1/4" | 60 S | 256 1/2" | 130 1/2" | 116" | 3470 lbs | 4.0 HP 220V 1PHASE |

II. INSTALLATION REQUIREMEN

A. TOOLS REQUIRED

- ✓ Rotary Hammer Drill (3/4 Dill Bit)



- ✓ Dead Hammer



- ✓ Level Bar



- ✓ Crescent Spanner (12")



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



- ✓ Ratchet Spanner Socket (28^{mm})



- ✓ Carpenter's Chalk



- ✓ Screw Driver Set



- ✓ Tape Measure (25FT)



- ✓ Pliers



- ✓ Vise Grips



- ✓ Allen Head Wrench
(Metric 3#, 5#, 6#)



Fig. 2

B. CONCRETE SPECIFICATIONS (See Fig. 3)

Specification Of Concrete Must Be Adhered To. Failure To Do So May Result In Personal INJURY, Lift And /Or Vehicle Falling.

1. Concrete must have a thickness 6 inches minimum and without reinforcing steel bars. Concrete must be cured before the installation.
2. Concrete must be in good condition and have a of test strength 3,000 psi (220kg/cm²) minimum.
3. **Floors must be level and no cracks.**

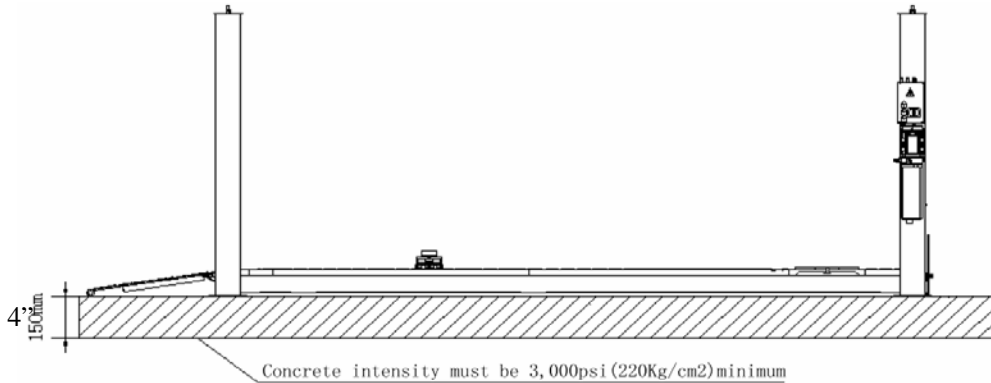


Fig. 3

C. AIR SUPPLY

Air pressure requirement: 75-120 psi, Air line size 8mm×6mm and 6mm×4mm.

D. POWER SUPPLY

The electric power unit must be greater than 2 horse power. Electrical wire must be a minimum of 10 gauge.

III. STEPS OF INSTALLATION

A. Location of Installation

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

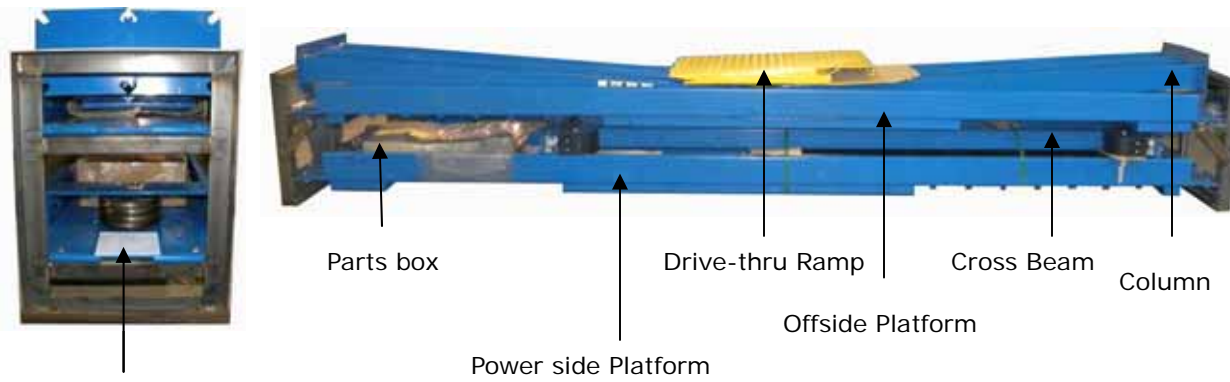
B. Check the Parts before Assembly

1. Packaged lift and Hydraulic Power Unit (See Fig. 4).



Fig. 4

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



Shipment Parts List

Fig. 5

3. Remove the Drive-thru Ramps and Columns (See Fig. 6).



Fig. 6

4. Loosen the screws on 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. 7).

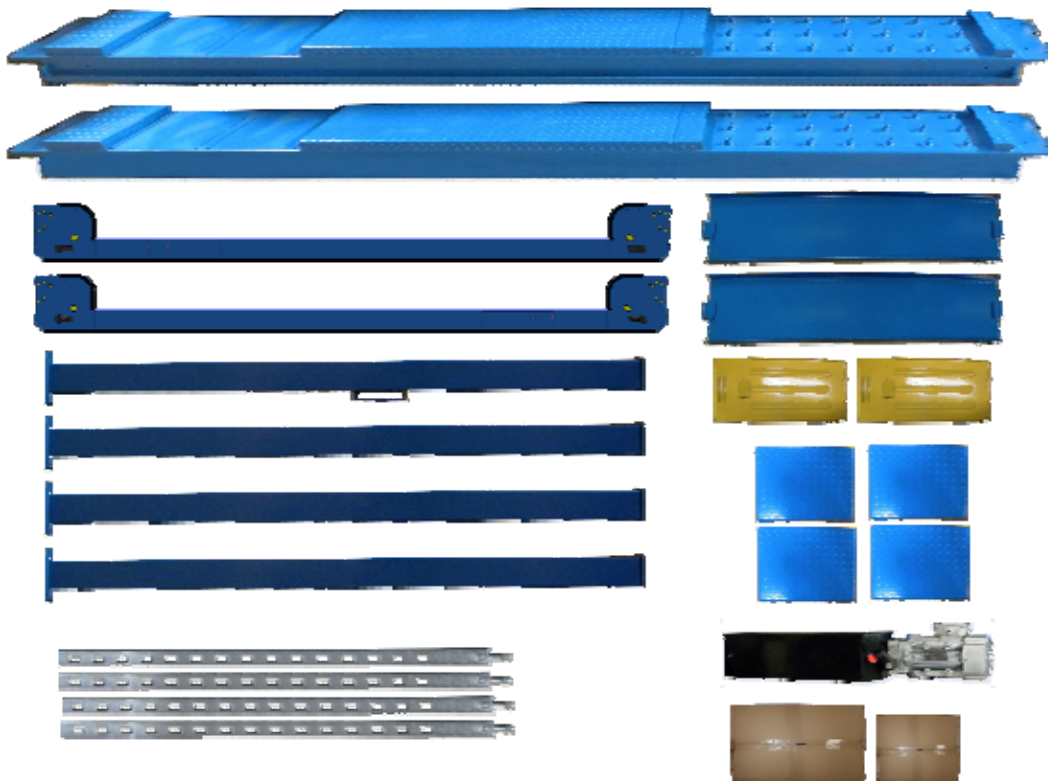


Fig. 7

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



Fig. 8

7. Check the parts bag according to the parts bag list (See Fig. 9).

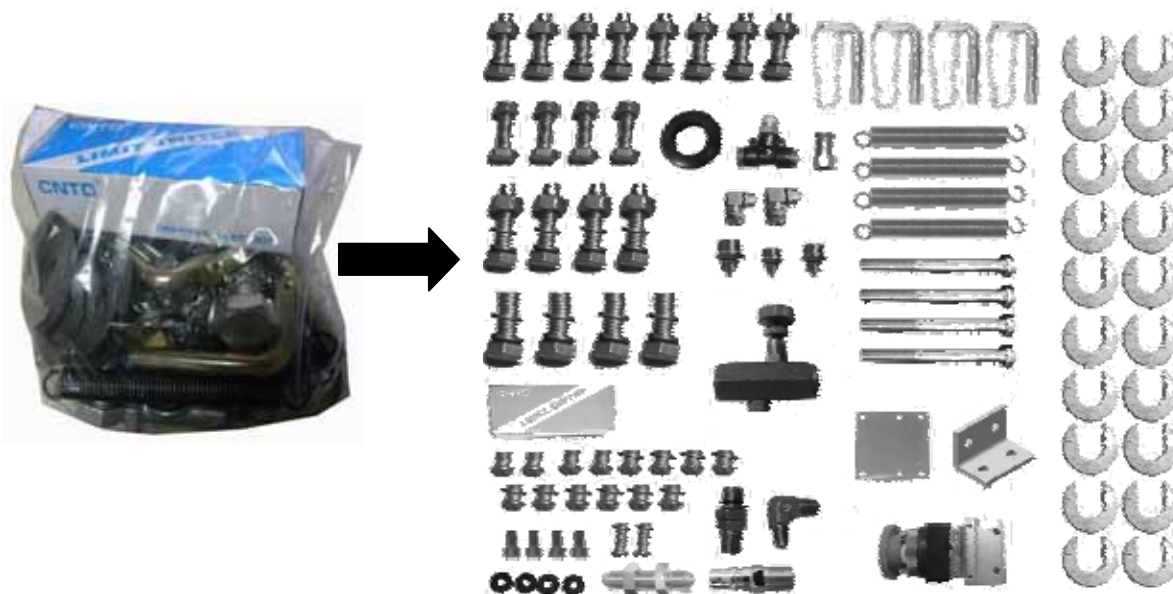


Fig. 9

C. Use a carpenter's chalk line to establish the installation layout per Table 1. Make sure the size is right and base is flat (see Fig. 10).

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

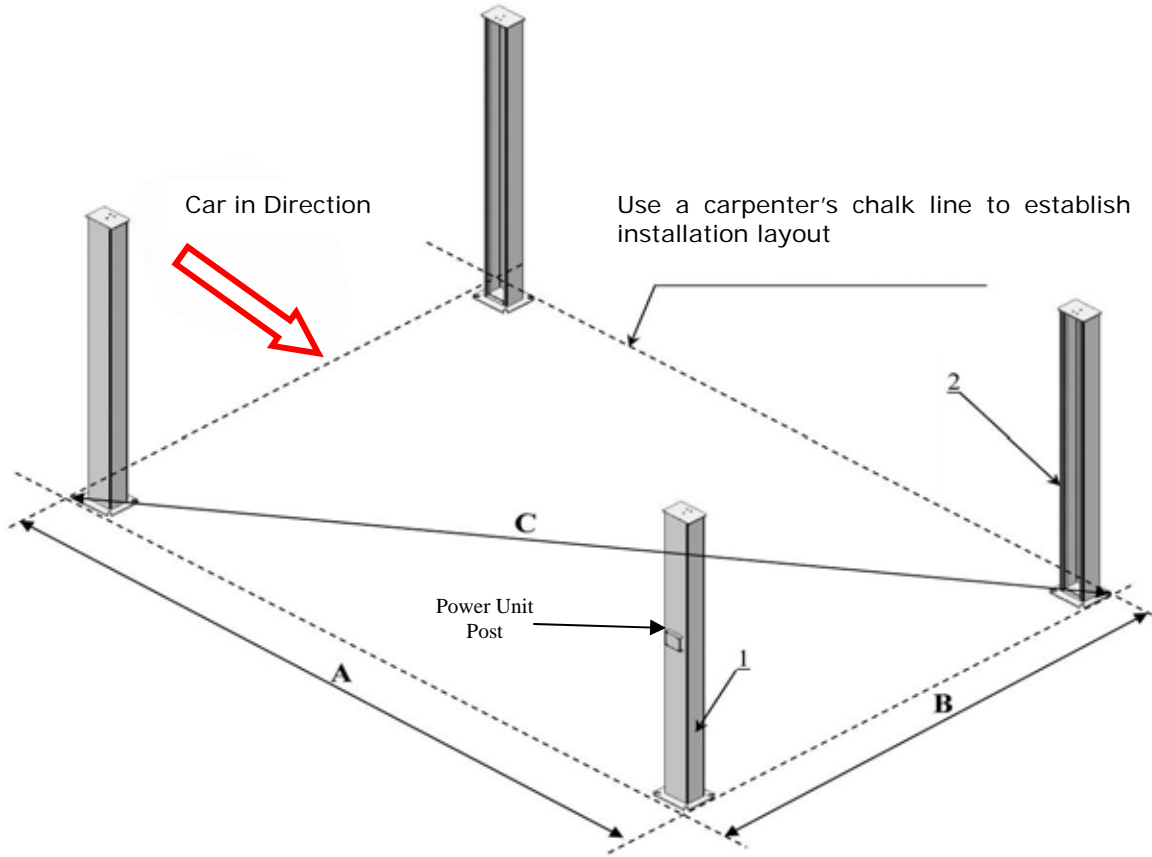


Fig. 10

| Model | A | B | C |
|-------|----------|----------|------|
| 414A | 216 1/2" | 130 7/8" | 253" |

Table 1

D. Install Cross Beams (See Fig. 11, Fig. 12). **Note:** *Install the runway platforms on the cross beams prior to drilling the anchor holes. This will help if measurements are incorrect. Do not fully tighten platform bolts.*

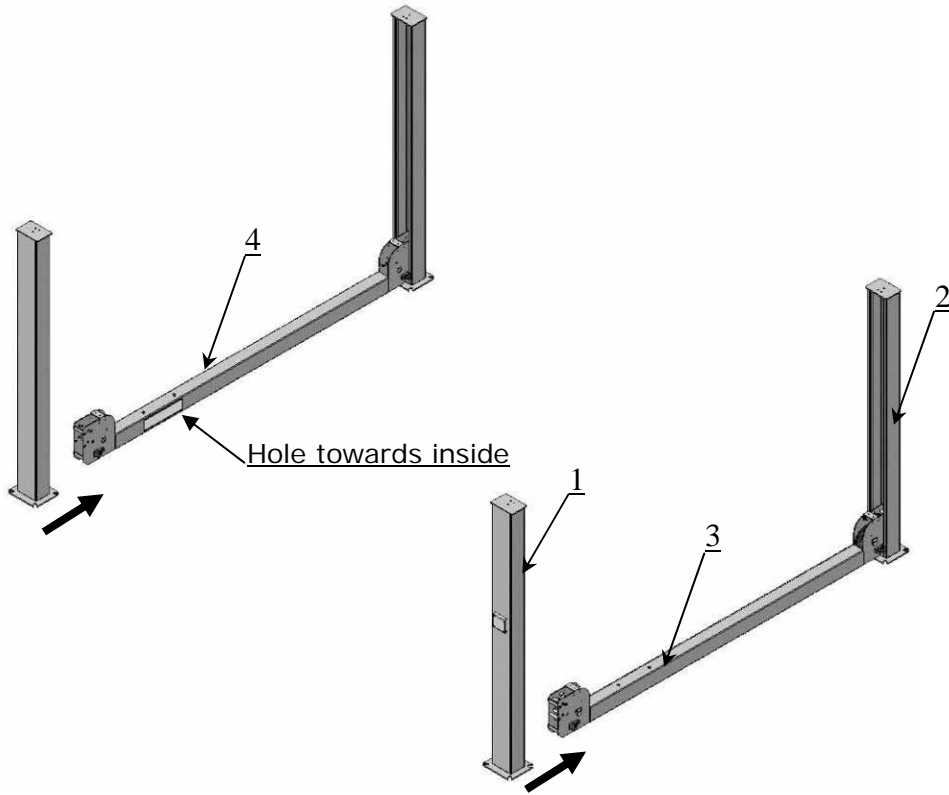


Fig. 11

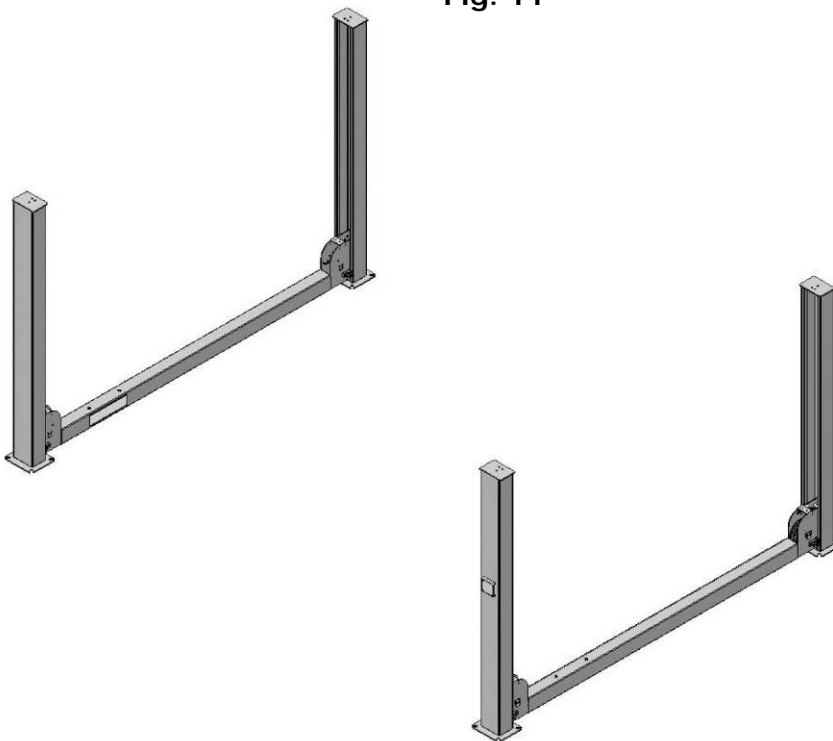


Fig. 12

E. Fix the Anchor Bolts

1. Prepare the Anchor Bolts (See Fig. 13).

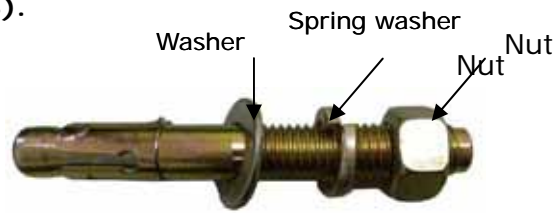


Fig. 13

2. Use a the rotary hammer drill with a $\frac{3}{4}$ inch masonry bit and drill all the anchor holes and install the anchor bolts (See Fig. 14).

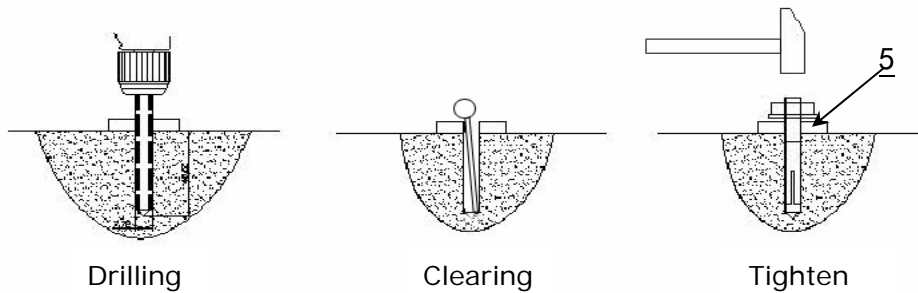


Fig. 14

F. Install the Safety Lock Ladders

1. Take off the pulley safety cover and unscrew the four upper nuts on the Safety Ladders, and then adjust the four lower nuts so they are at the same level. Pull back on the cable safety lock on the Cross-beam to insert the Safety Lock Ladder in, raise the Safety Ladder, and thread the upper nuts (See Fig. 15).

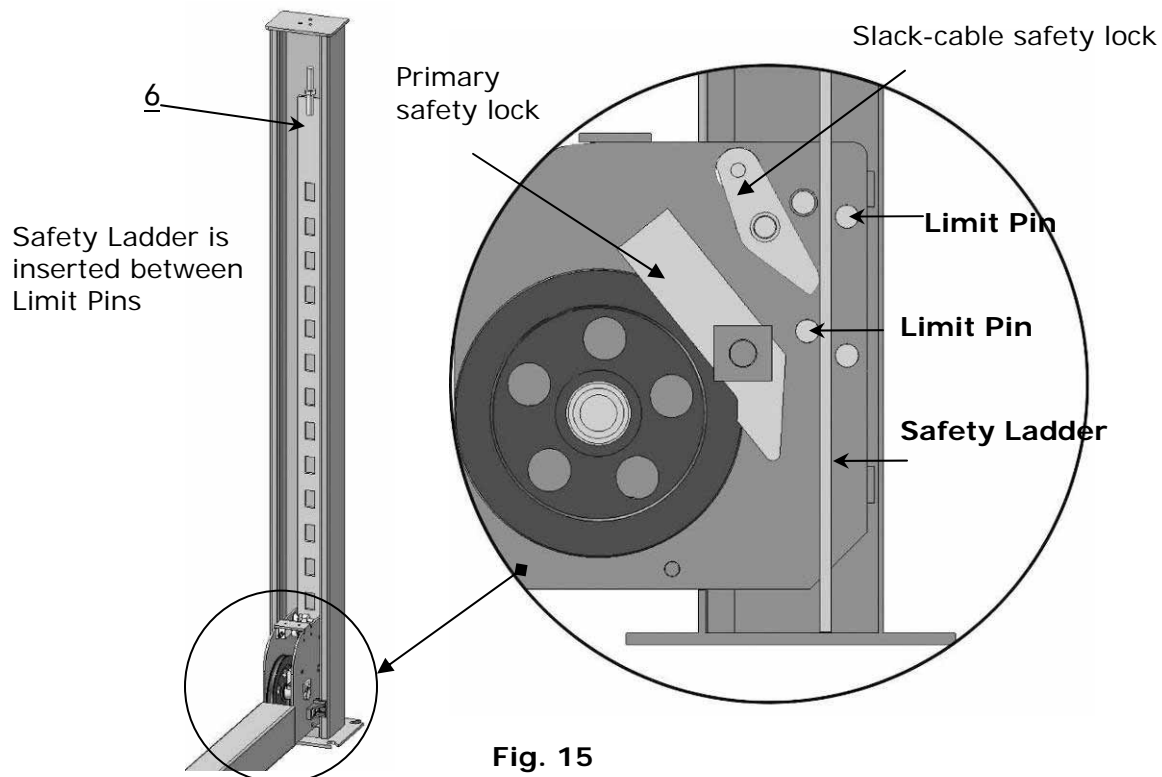
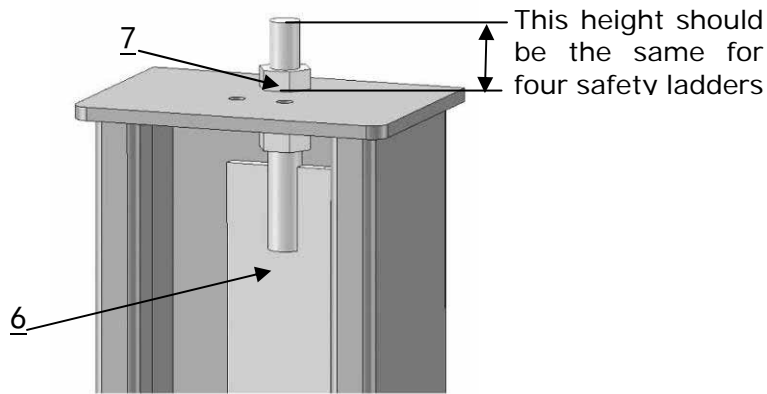
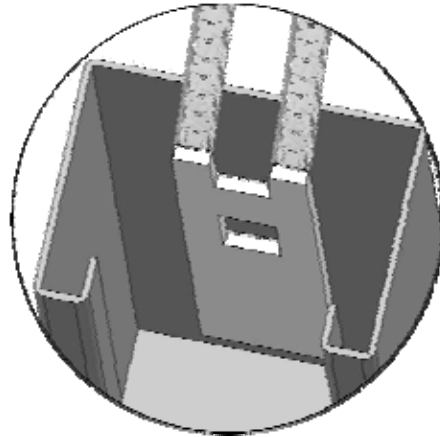


Fig. 15

2. Install Safety Ladders (See Fig. 16).



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



Safety Ladder is adjusted so it is parallel to the back side of Column.

Fig. 16

G. Install the Cross Beams at the same height (See Fig. 17).

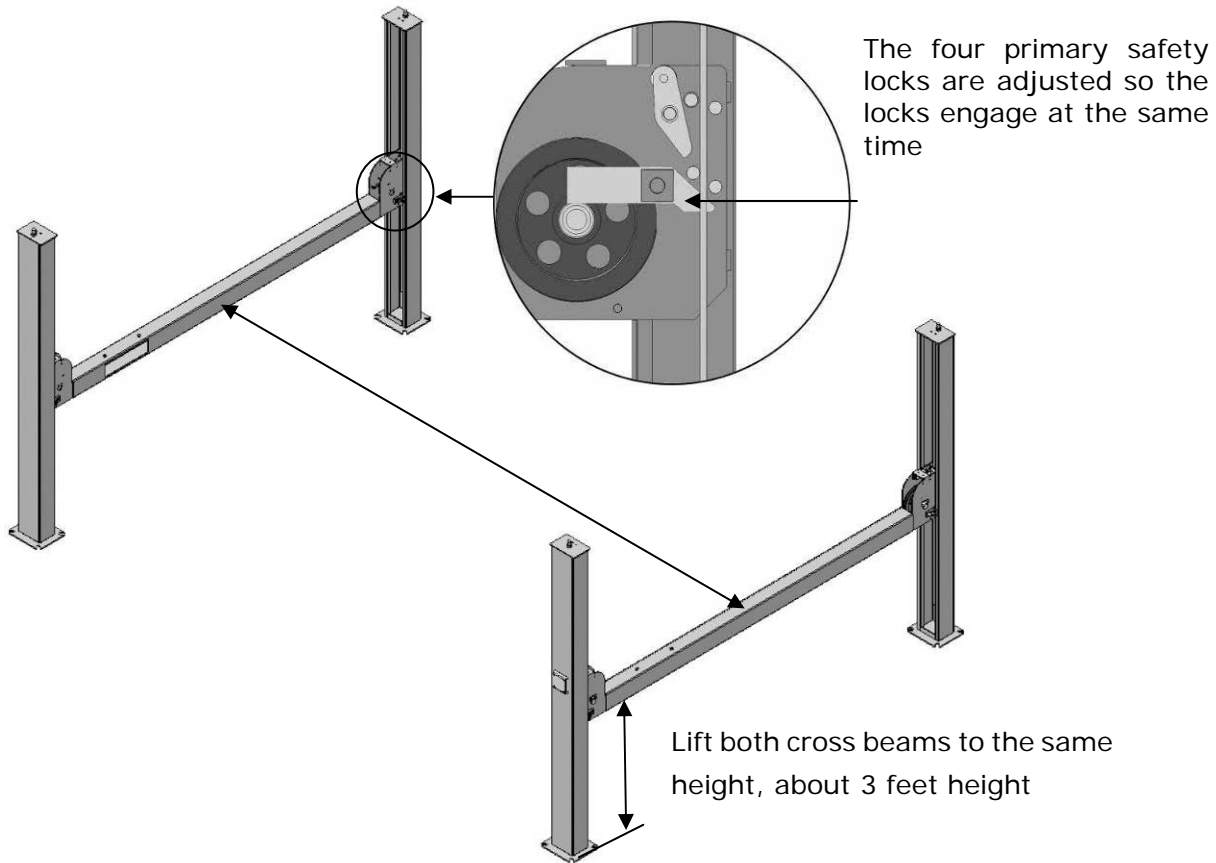


Fig. 17

H. Install power side (cylinder) platform.

1. Loosen one side of the pulley (See Fig. 18).

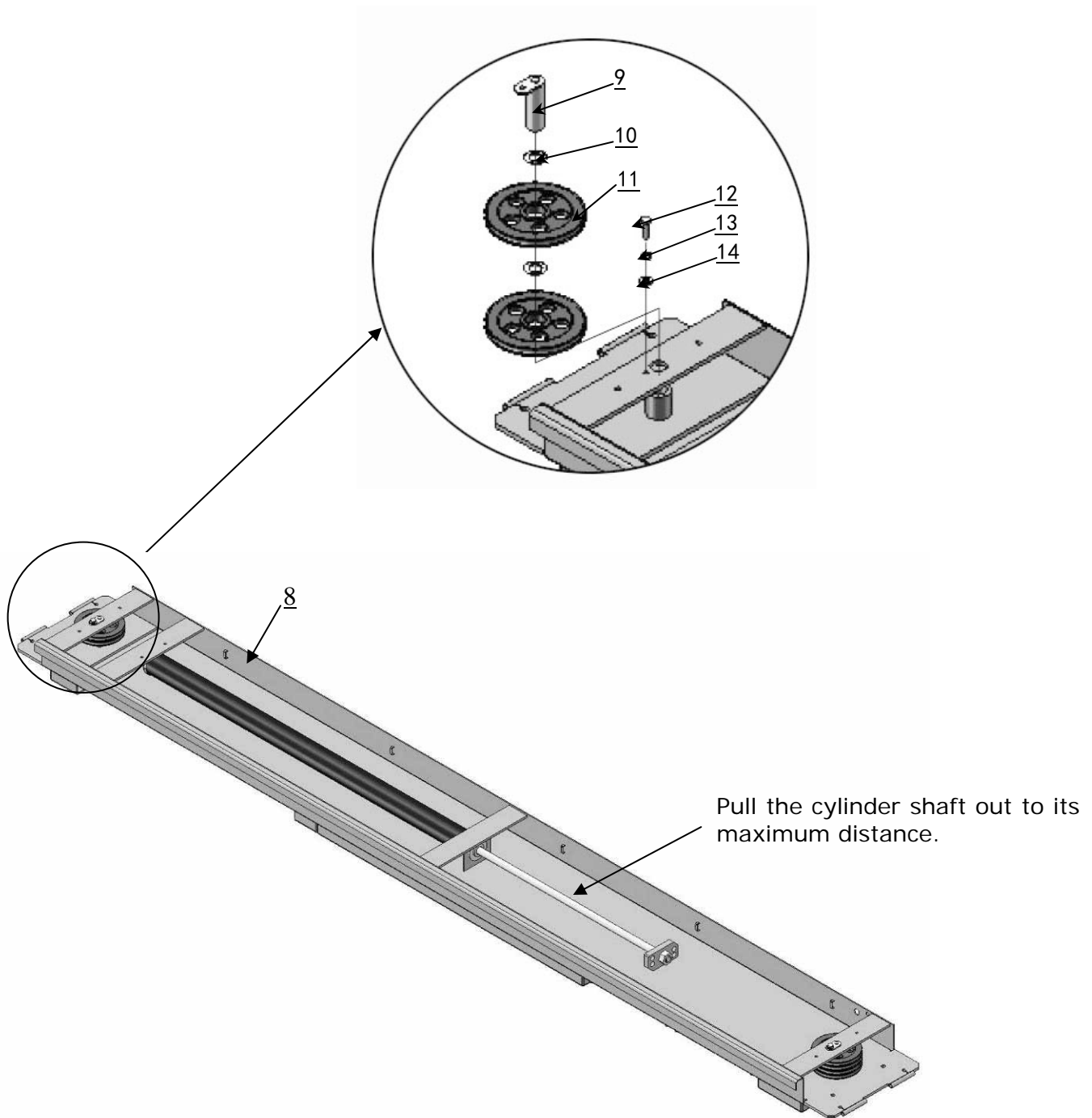


Fig. 18

2. Install the platform to Cross Beam with a forklift or other lifting device (See Fig. 19).

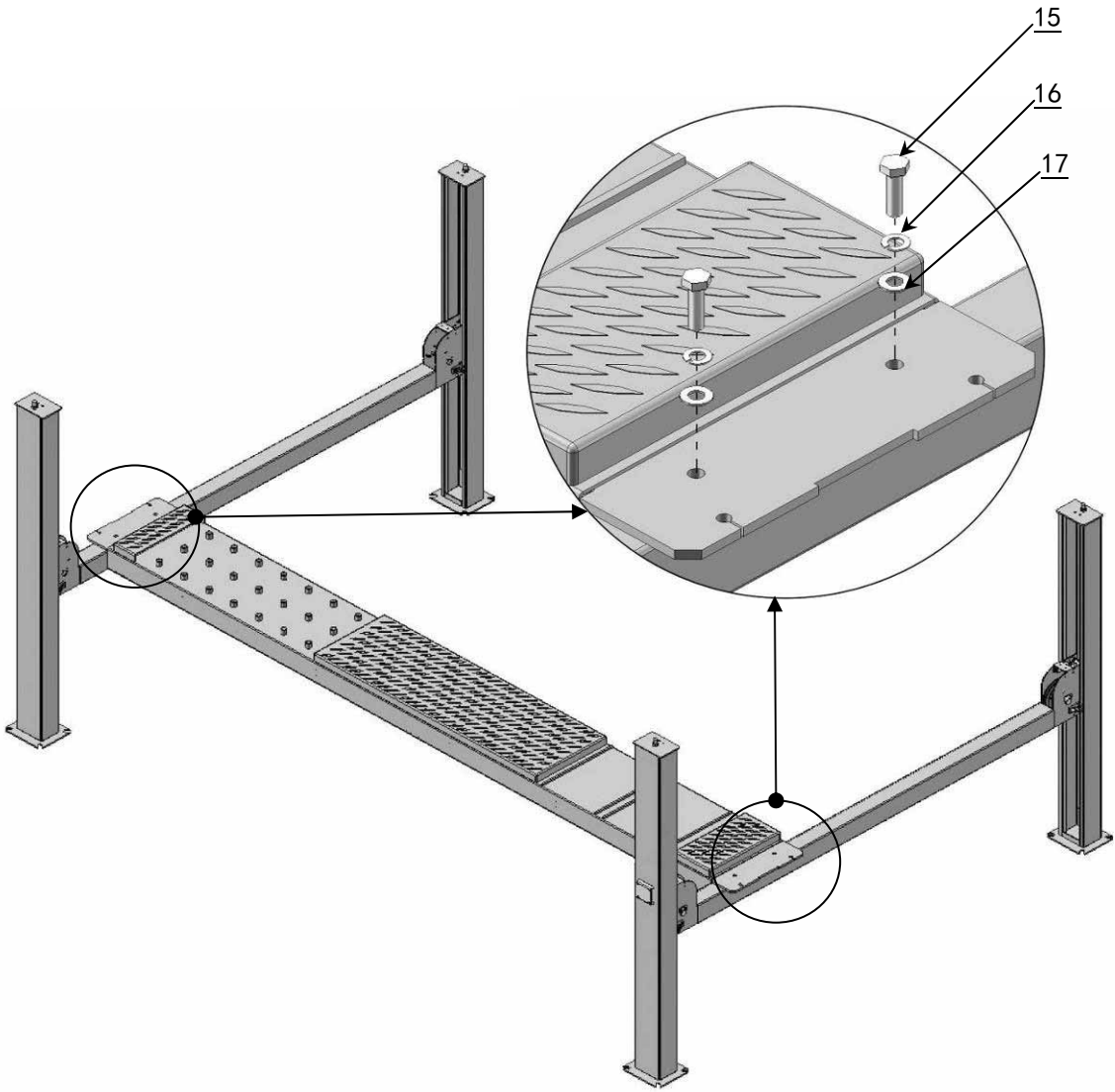
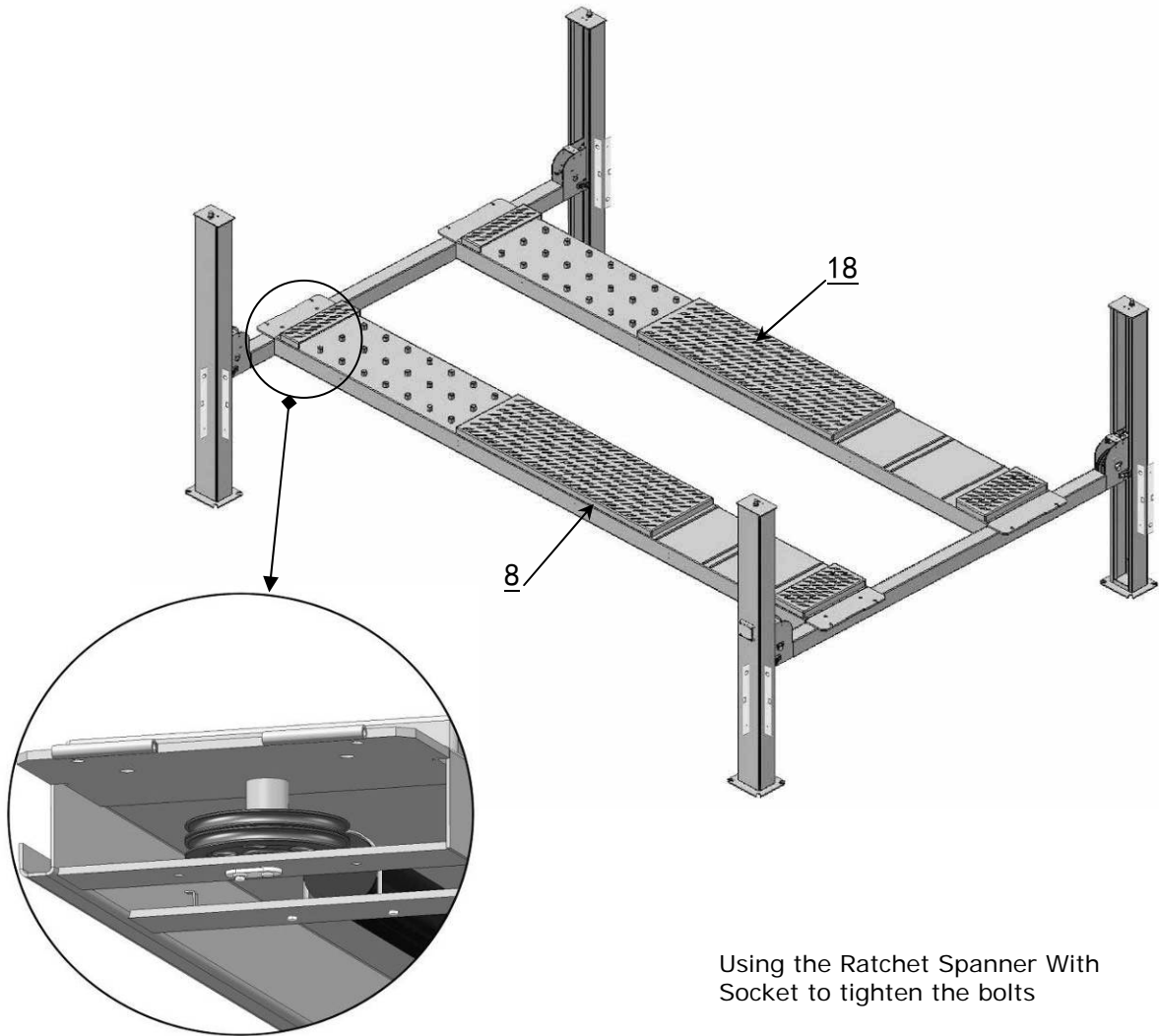


Fig. 19

I. Assemble the pulleys back to the power side platform. Install the offside platform on the cross beams and check the plumb of columns with a level, adjust with the shims and tighten the Anchor Bolts (See Fig. 20).



Install the pulley

Using the Ratchet Spanner With Socket to tighten the bolts

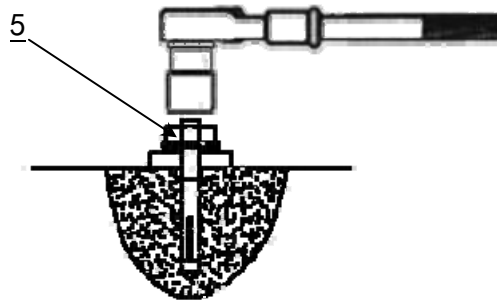
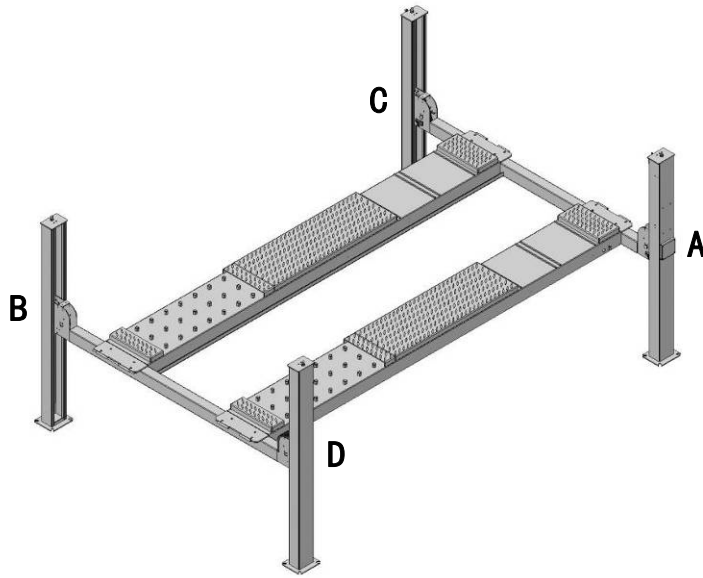


Fig. 20

J. Install the Steel Wire Cables (See Fig. 21).



| Cable \ No. | ① | ② | ③ | ④ |
|-------------------------------------|---------------------|----------------------|---------------------|---------------------|
| Length (inc. connecting fitting) | 4104 mm 161 5/8" | 11058 mm 435 3/8" | 5810 mm 228 3/4" | 9354 mm 368 1/4" |

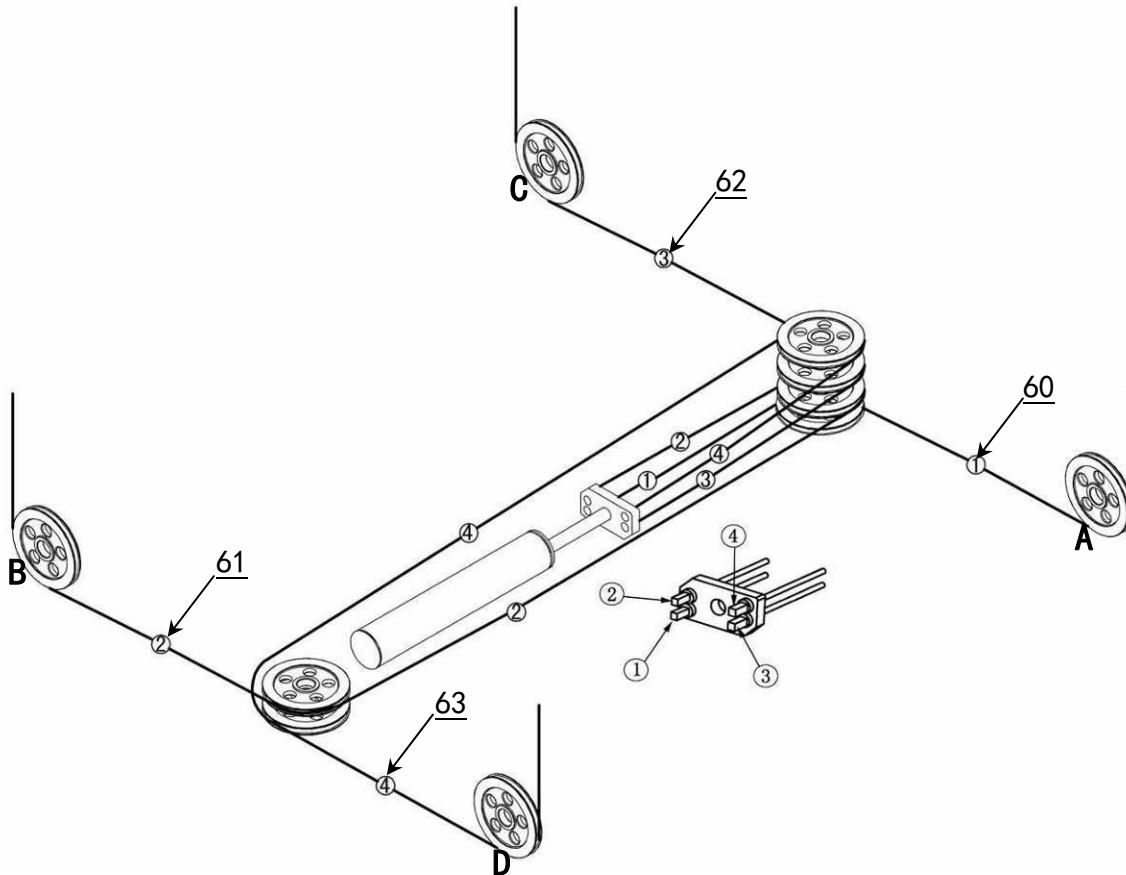


Fig. 21

1. After routing the cables through the pulleys, attach the cables to the connecting plate(See Fig. 22).

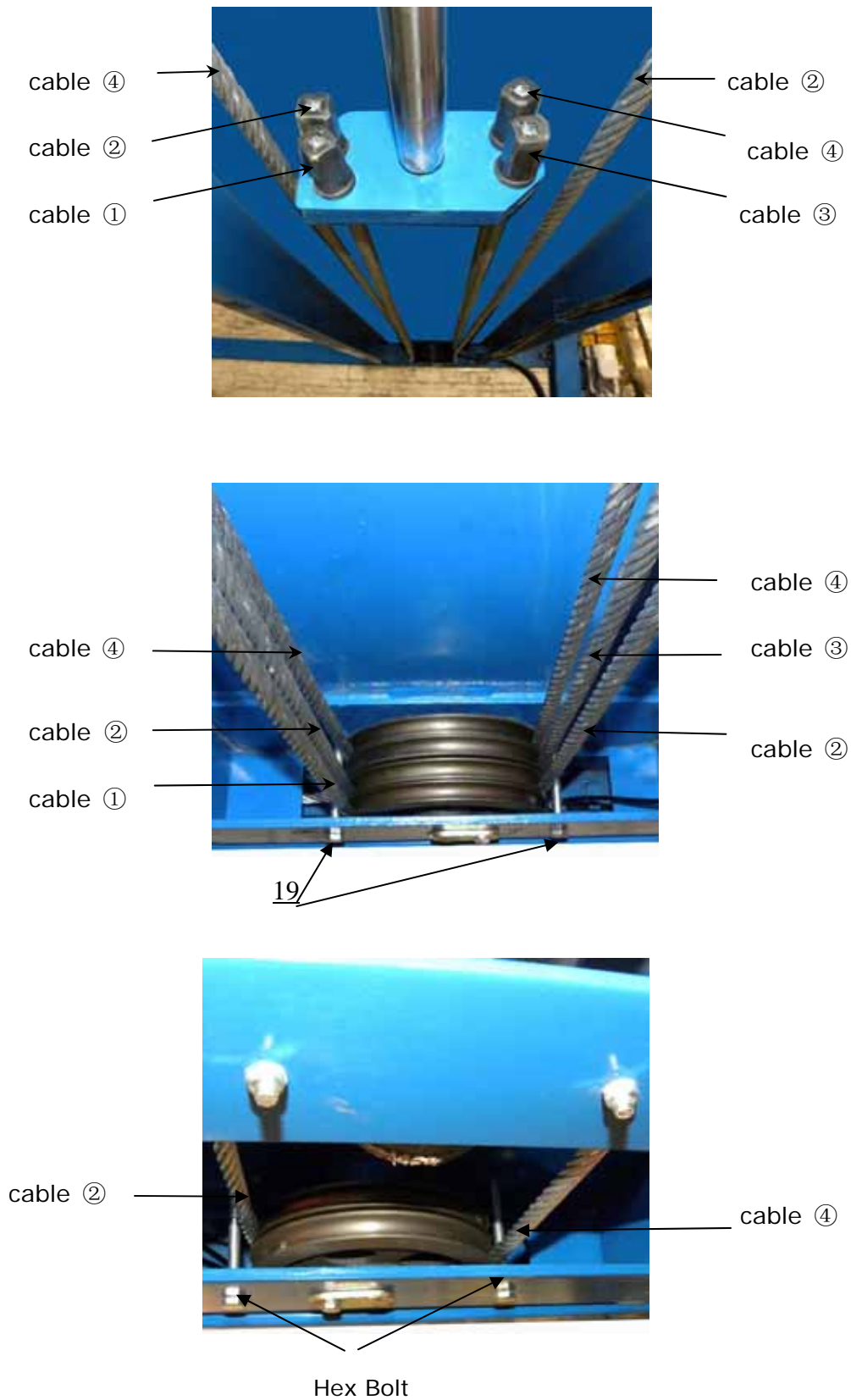


Fig. 22

2. The cable passes through Cross Beam and top plate on the column. Install the cable nuts (See Fig. 23).

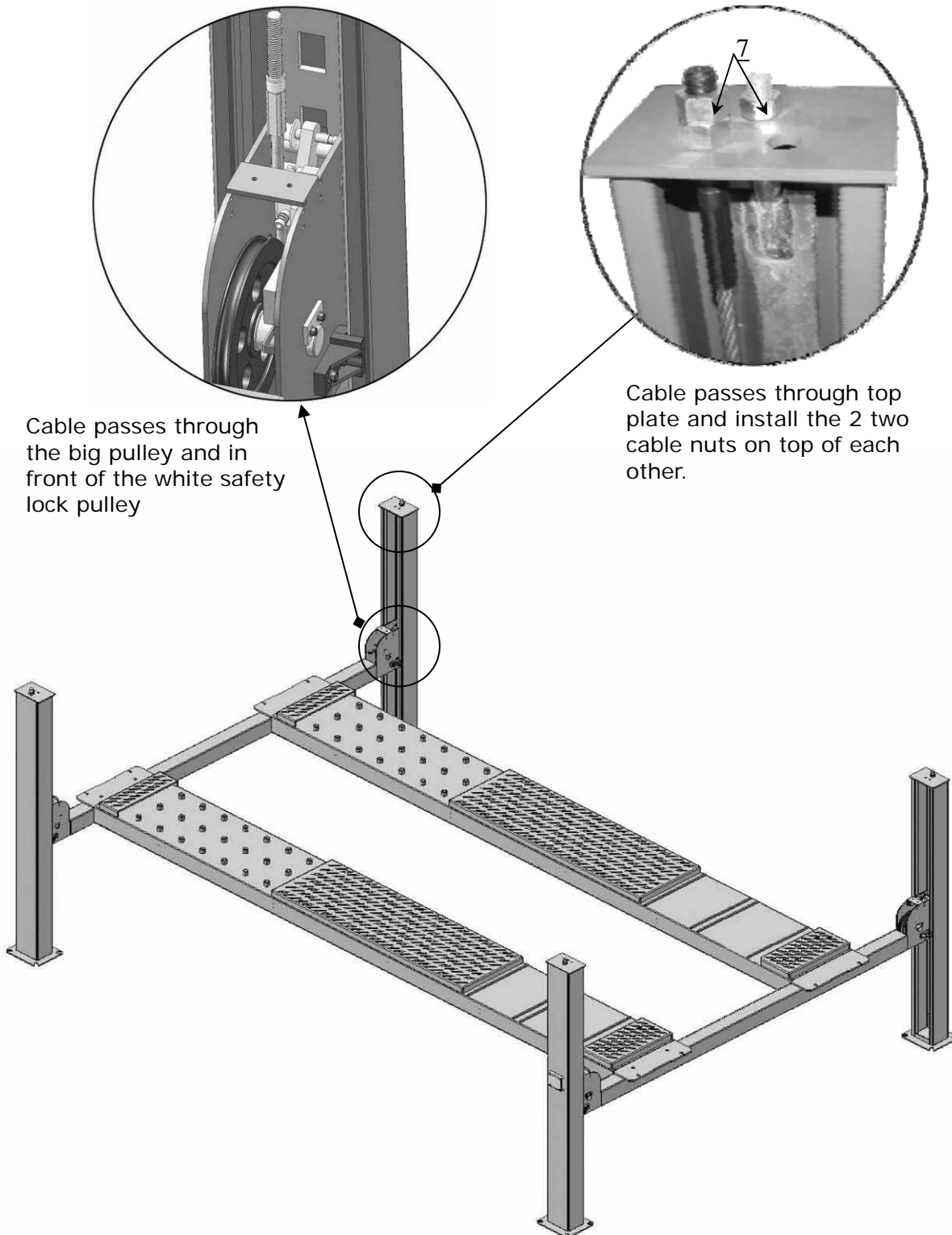


Fig. 23

K. Install the water separator, Manual control air valve and Power unit

(See Fig. 24). Note: After connecting the air valve to an air supply and air constantly leaks from the valve the air valve is installed upside down. Remove air fittings and invert the air valve. Re-install air fittings.

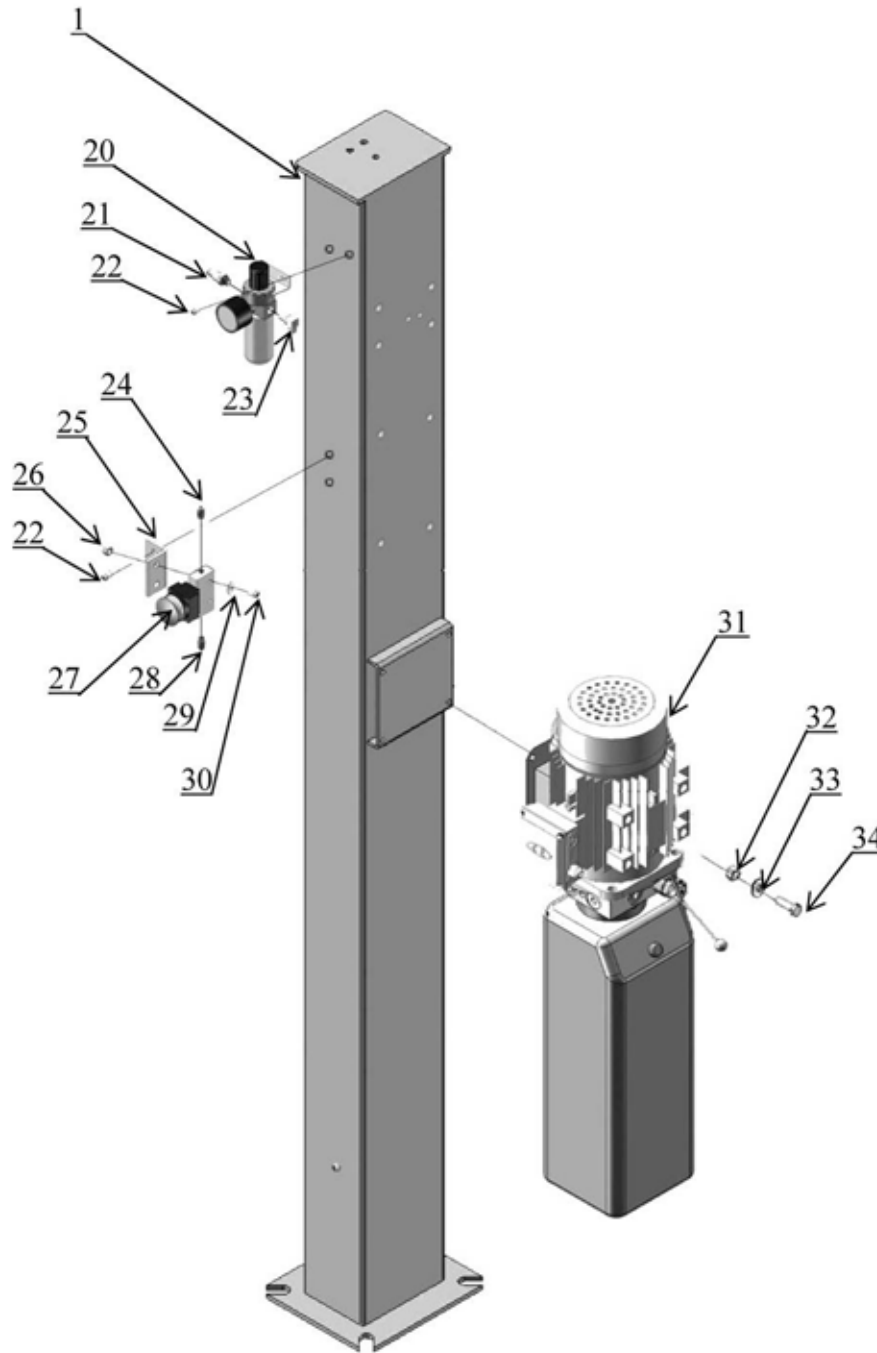


Fig. 24

L. Install Hydraulic System (See Fig. 25).

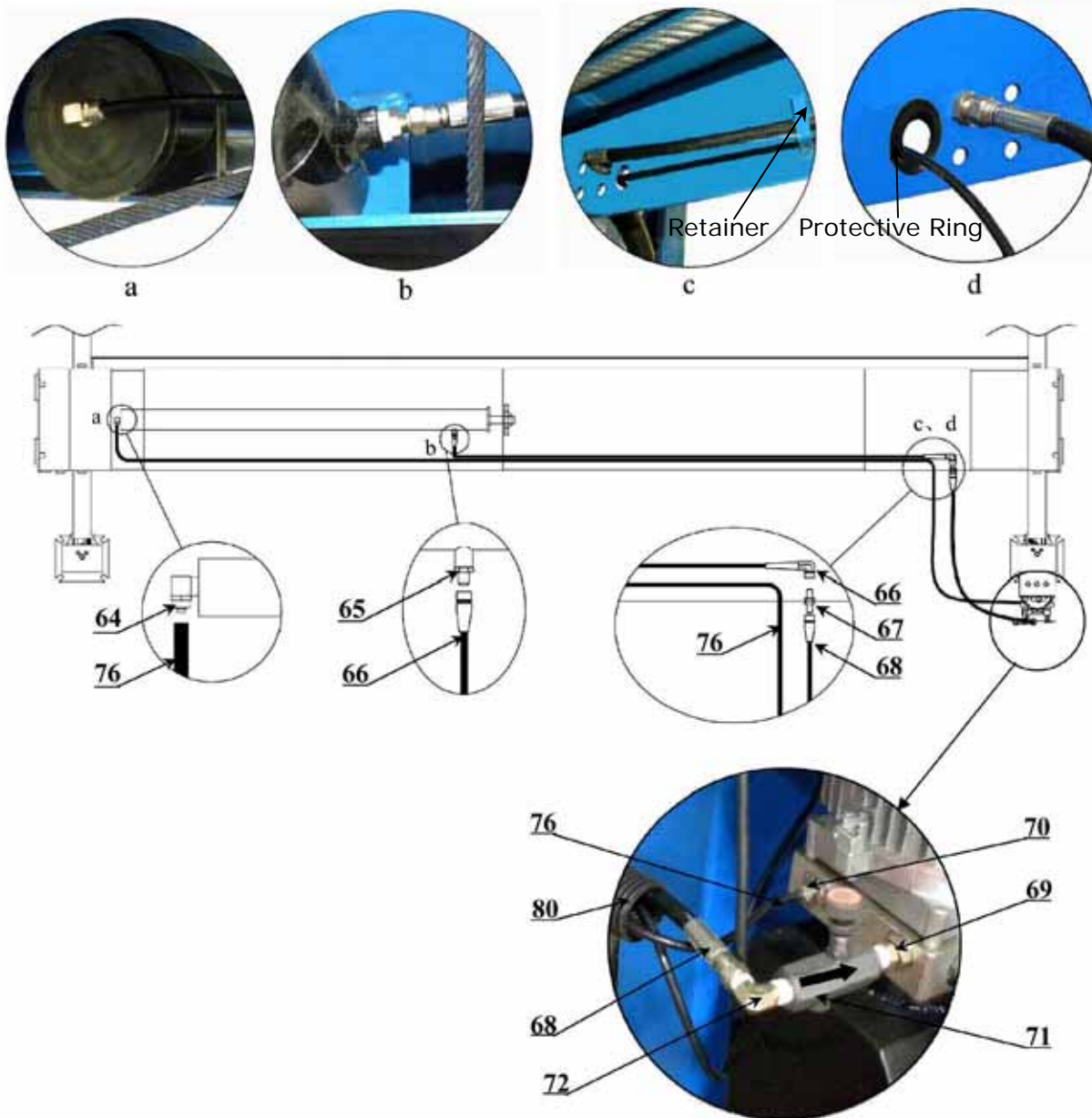


Fig. 25

M. Install Air-line System

1. Connect the front and rear Cross Beam air lock cylinders by using 6mm × 4mm black air line (See Fig. 26).
2. Connect manual air control valve using 6mm × 4mm black air line (See Fig. 26).

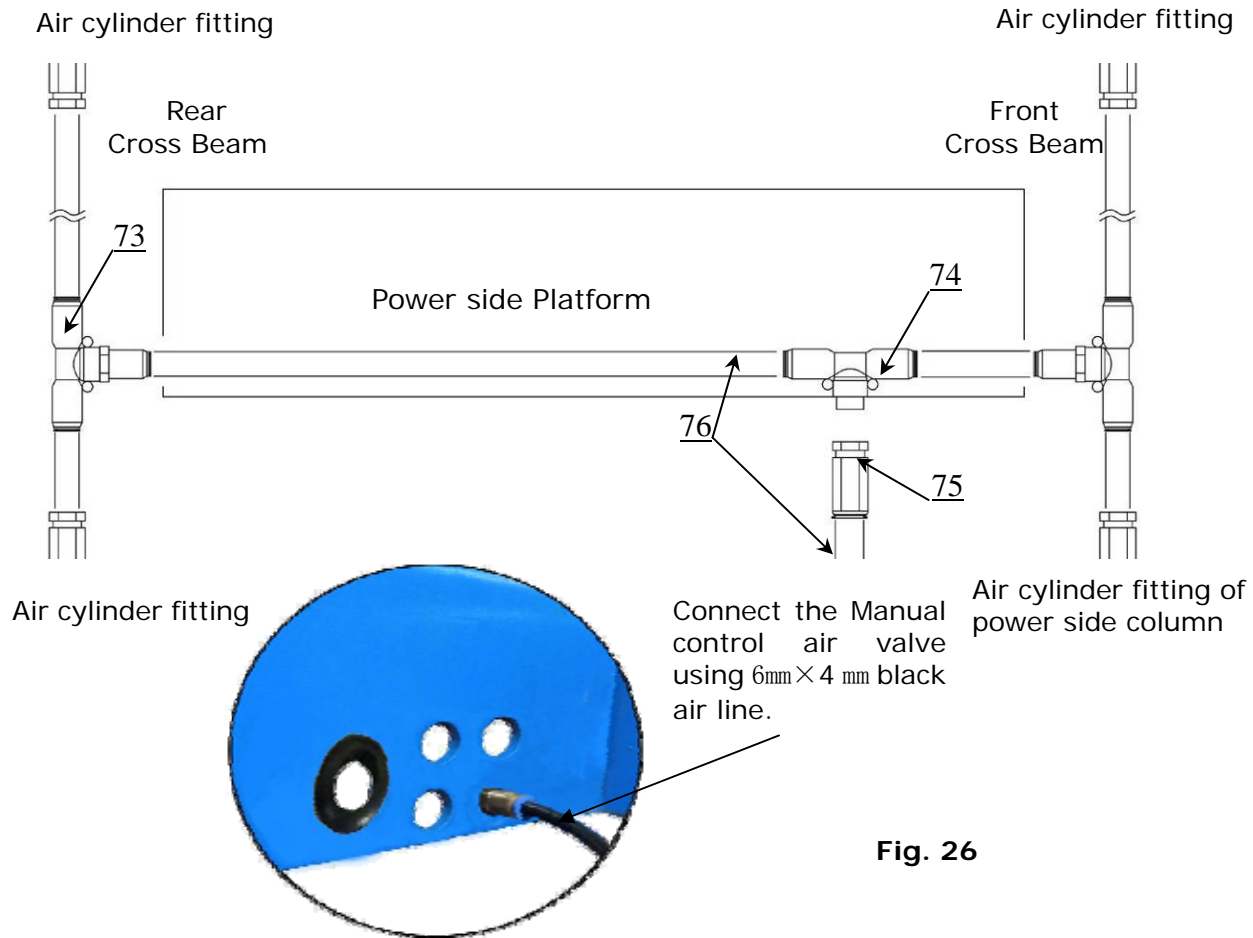


Fig. 26

3. Connect the oil hose and air lines (See Fig. 27).

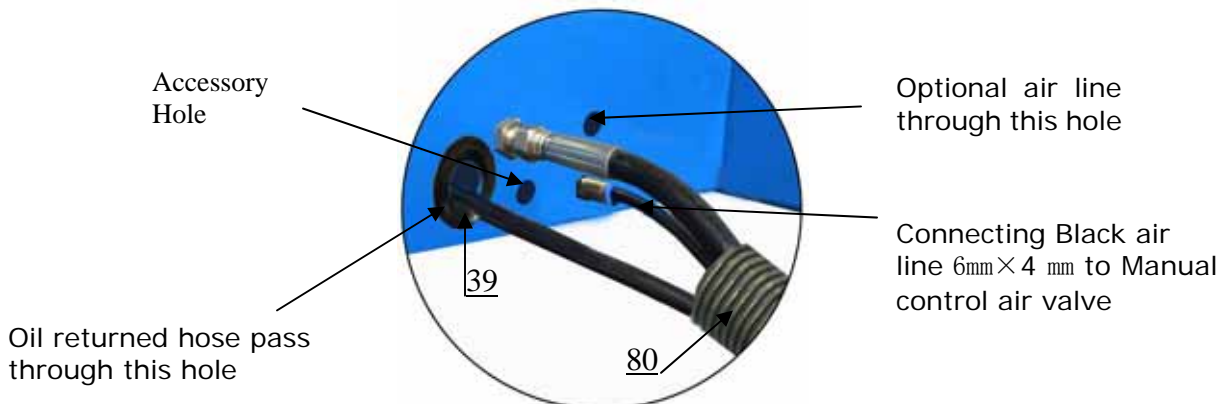


Fig. 27

4. Connect the water separator and manual control air valve using air line 8mm×6mm
(See Fig. 28).

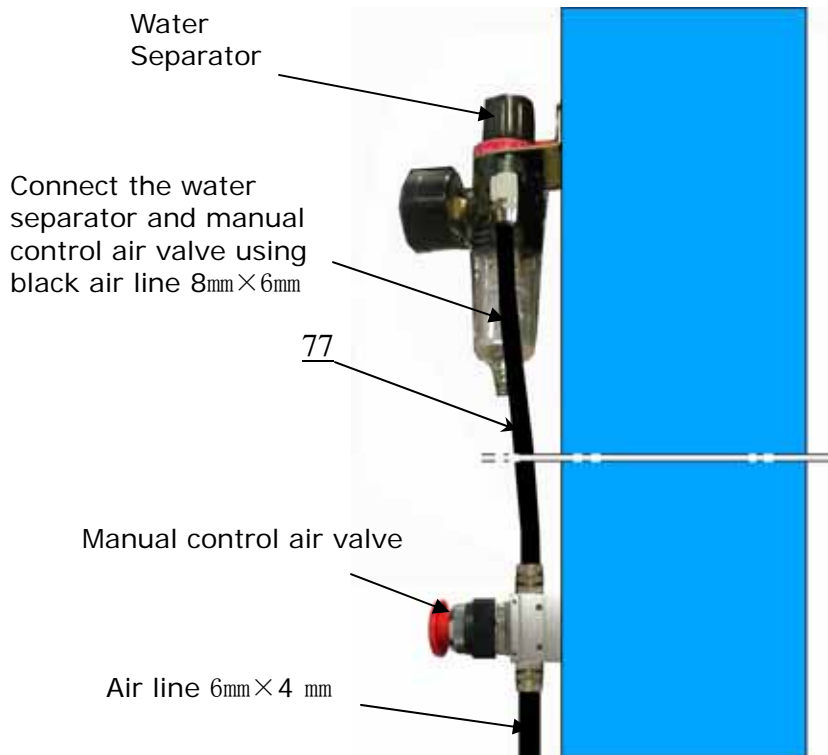


Fig. 28

5. Connect the air 1/4NPT air inlet (not supplied). Adjust the air pressure on the water separator regulator between 75-120 PSI **(See Fig. 29).**

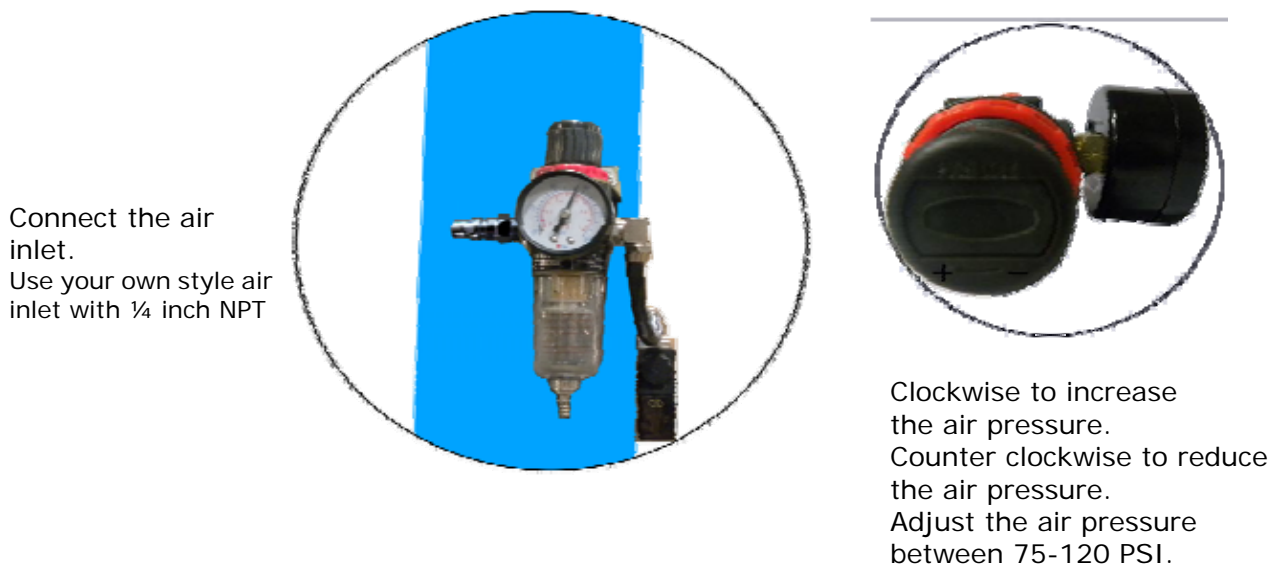


Fig. 29

N. Install Electrical System

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

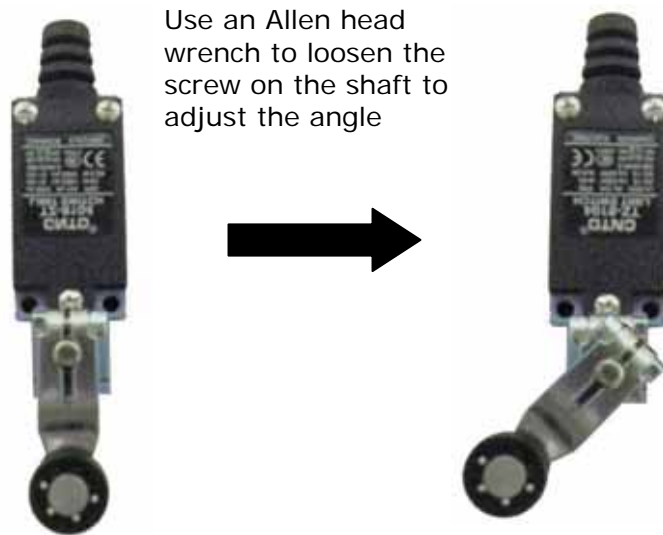


Fig. 30

2. Connect the limit switch with the cable wire. Connect wires to terminals #11 & #12 (See Fig. 31).

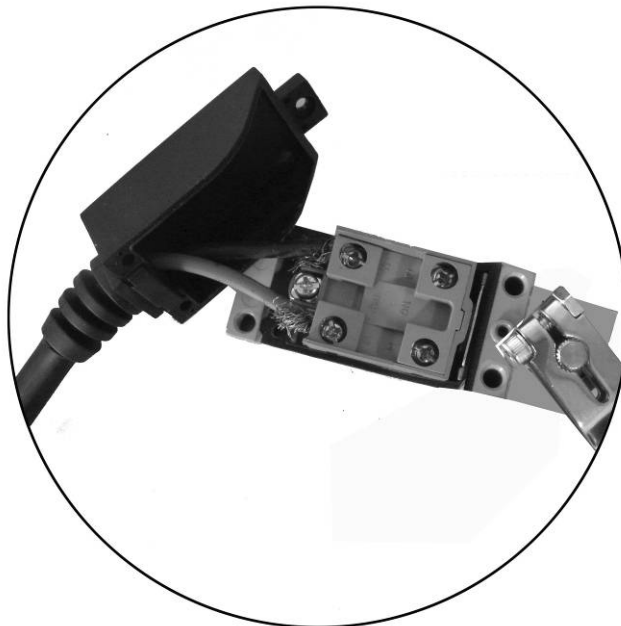
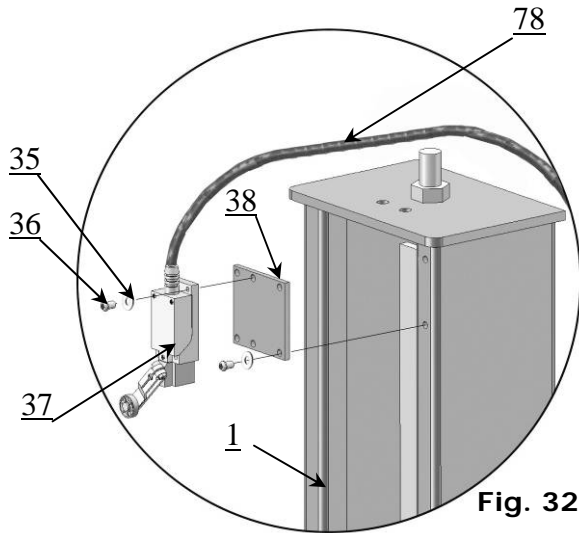


Fig. 31

3. Install limit switch on the column (See Fig. 32).
4. Insert the limit switch cable through the plastic protective sleeve (See Fig. 33).



O. Electrical Connections

Note: 1. Safety: Make sure an adequate ground to the motor.

ATLAS Single phase motor (See Fig. 34)

1. Connect the two power supply lines (fire wire **L** and zero wire **N**) to terminals on the AC contactor marked **L2, L3**.
2. Connect the two motor wires to terminals on the AC contactor marked **T2, T3**.
3. Connect **A2** to **L3** on the AC contactor. May already be installed (short jumper wire)
4. Connecting the Limit Switch: Remove the line of Connecting Terminal **4#** on the up button and **A1** on the AC contactor (See Fig. 35). Then connect wire **12#** on the Limit Switch with Terminal **4#** on the control button and connect wire **11#** with terminals **A1** on the AC contactor (See Fig. 36).

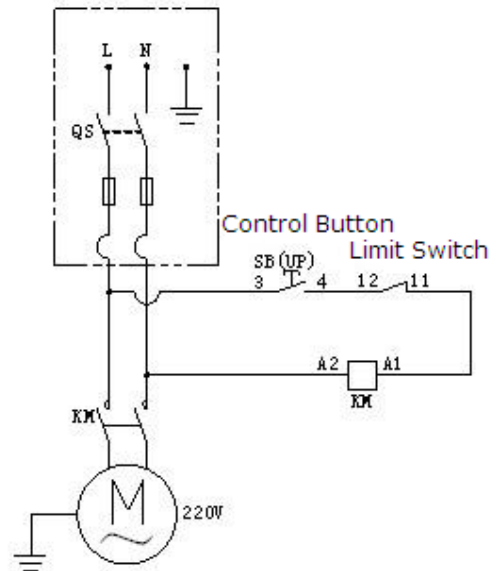
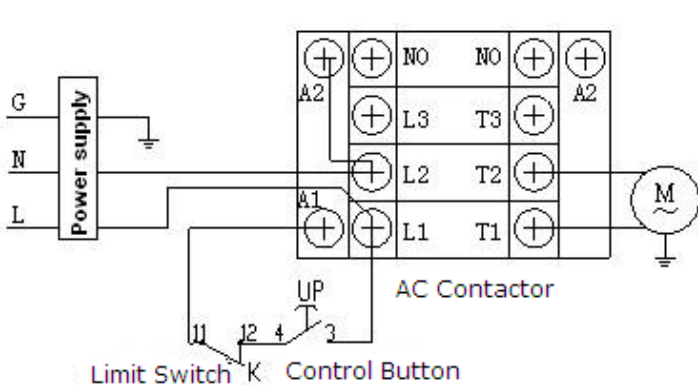


Fig. 34

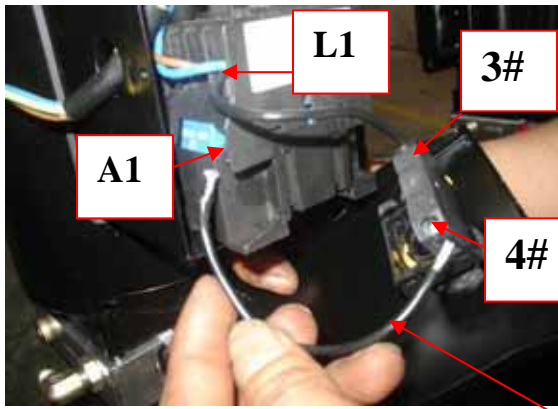


Fig. 35 Remove this line before connecting the Limit Switch

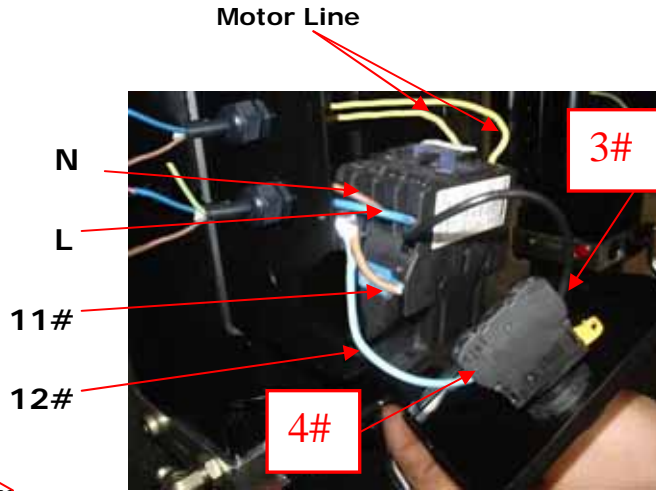


Fig. 36

SPX single phase motor (See Fig. 37)

1. Power supply line (zero wire **N**) connected with wire **5#** of motor.
2. Wire **11#** on the limit switch connected with wire **6#** on the motor.
3. Wire **12#** on the limit switch connected with wire **4#** on the control button.
4. Power supply line (fire wire **L**) connected with wire **3#** on the control button.

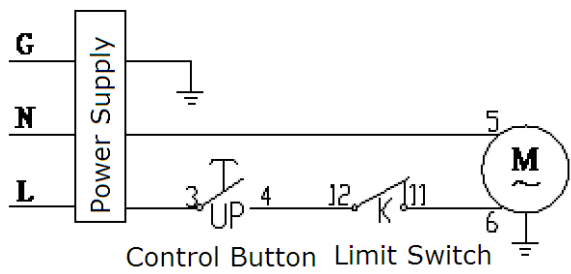
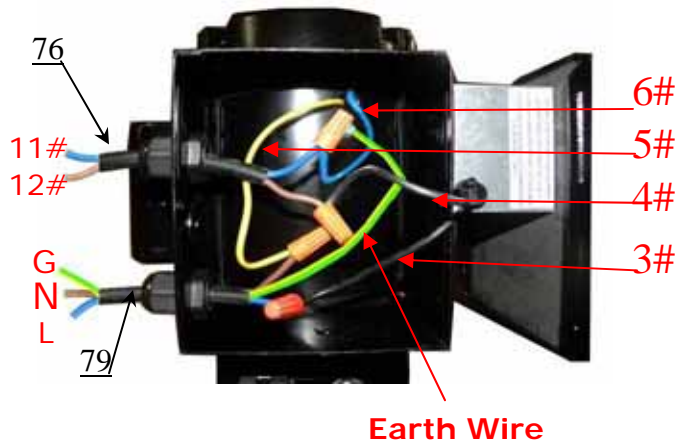


Fig. 37



Earth Wire

P. Install Spring and Safety Cover on the Cross Beam (See Fig. 40).

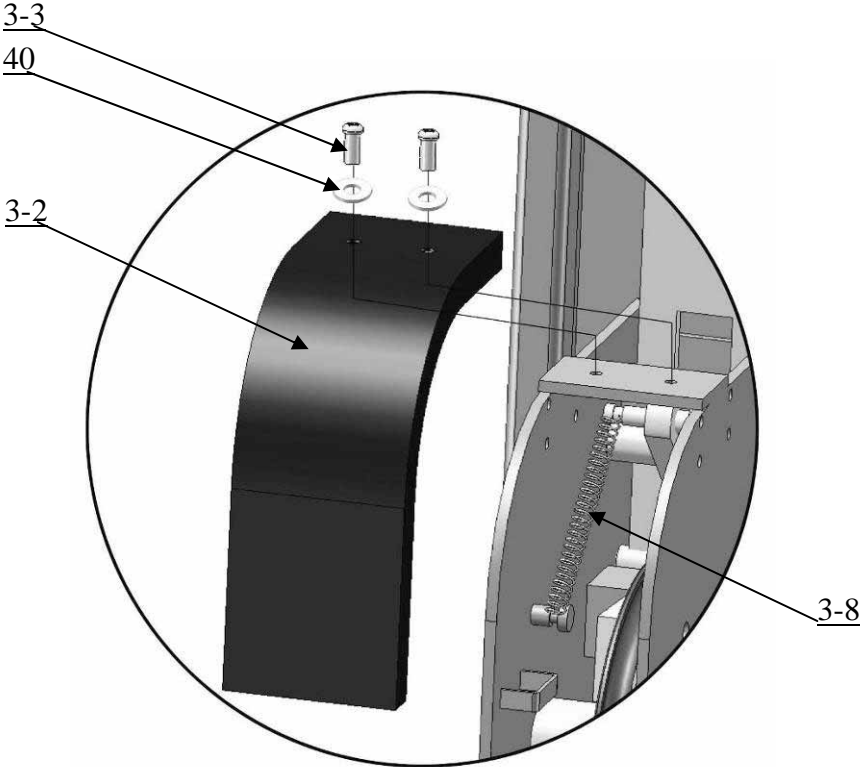
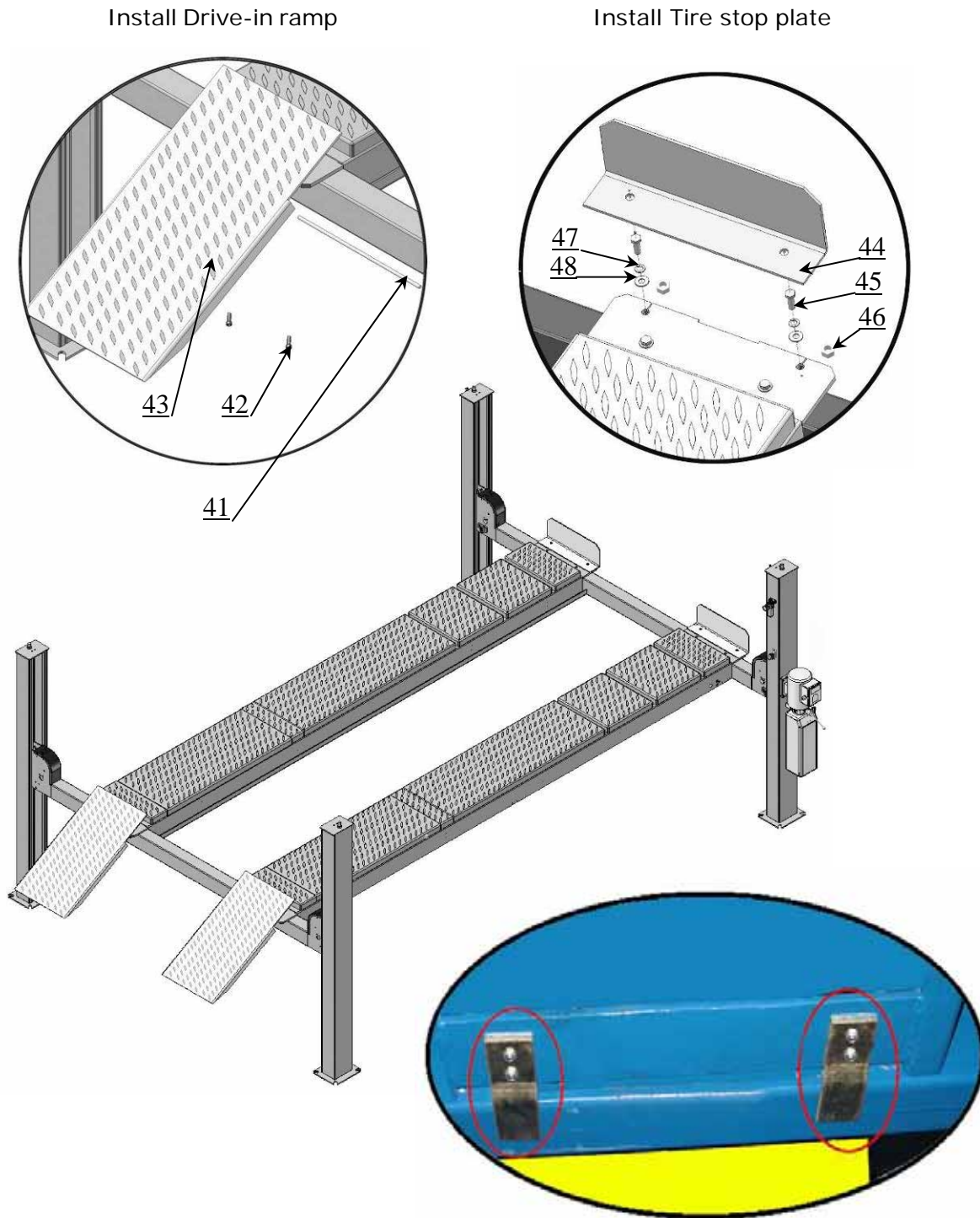


Fig. 40

Q. Install Drive-in ramp, Tire stop plate, Platform lock plates (See Fig. 41).



The lock plates are used to prevent the turning & slipping of offside platform. Use the hex bolts M8×20. Bolt the plates to the front and rear on the platform.

Fig. 41

IV. EXPLODED VIEW

Model 414A

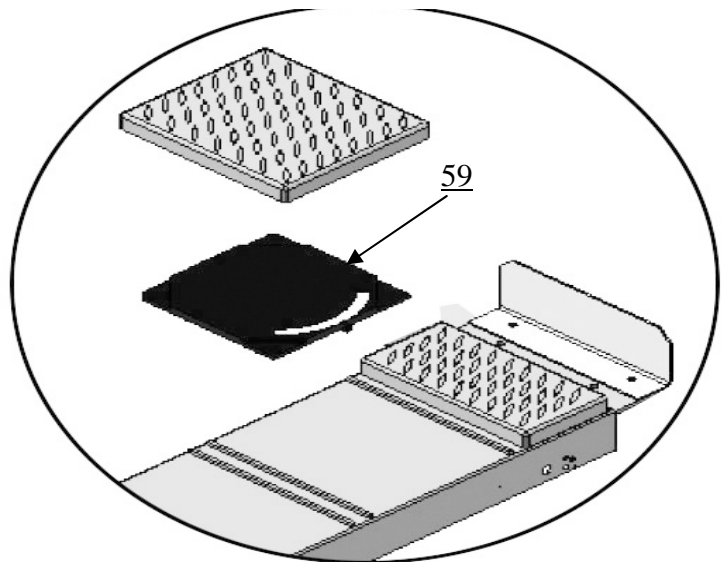
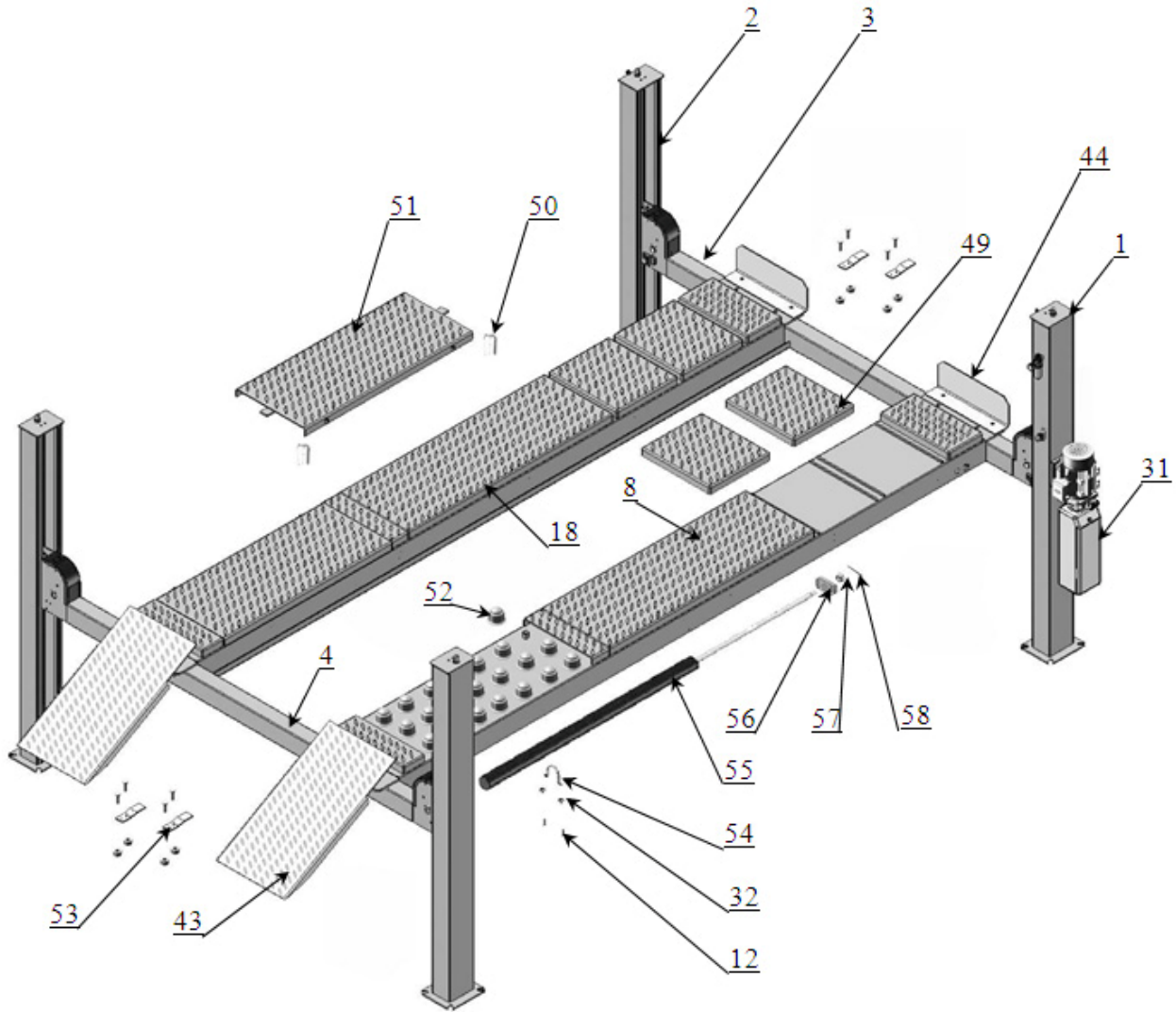


Fig. 42

POWER UNIT

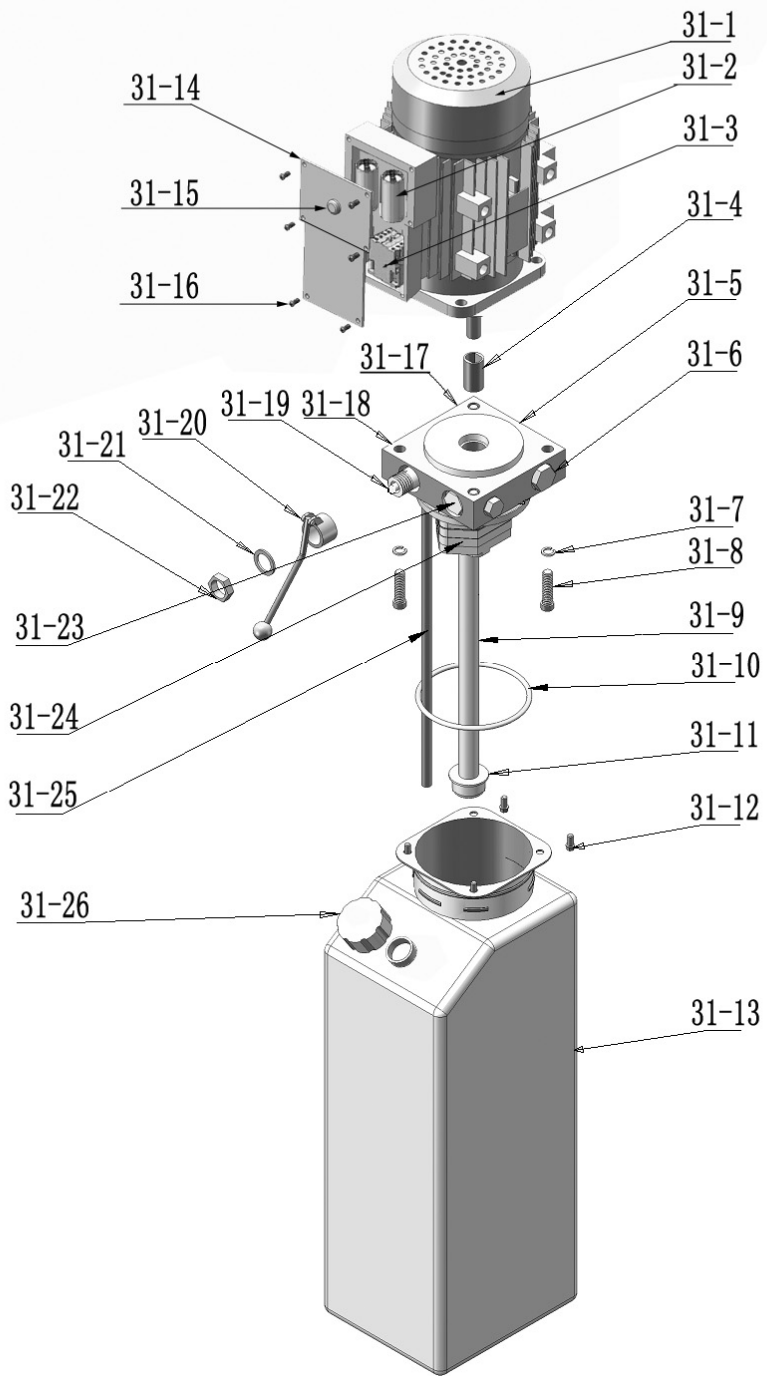
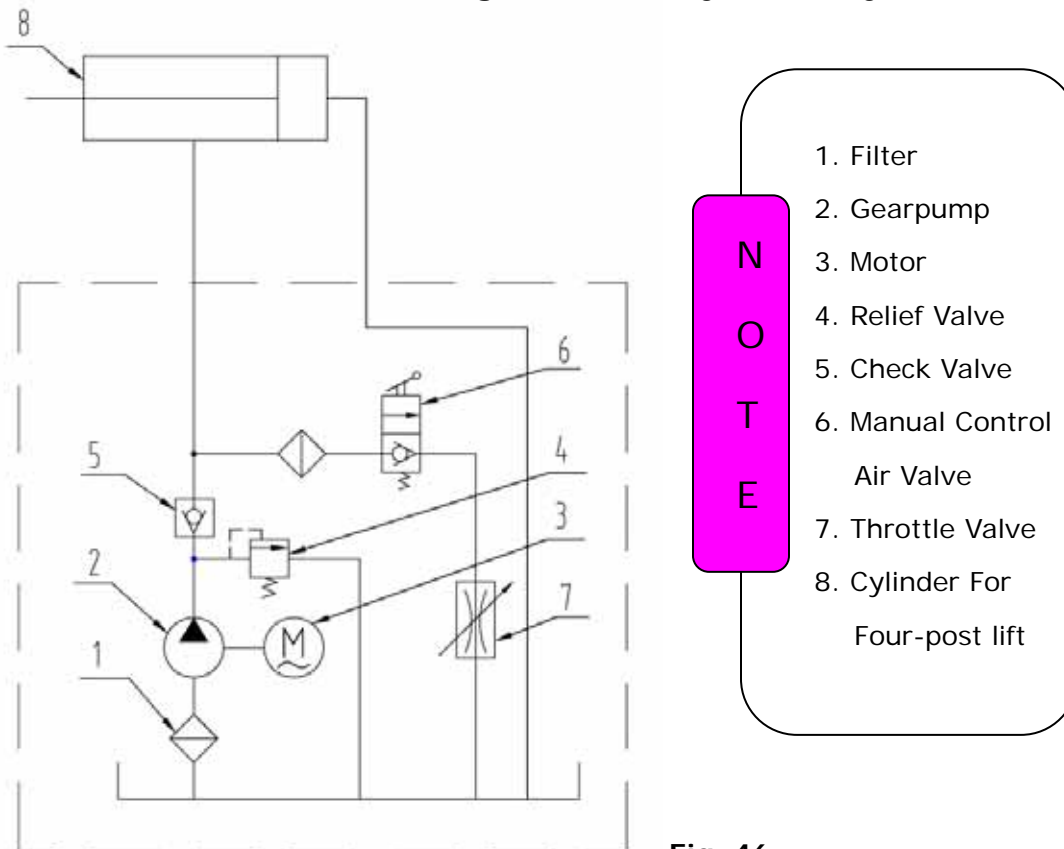


Fig. 45

V. TEST RUN

1. Fill the reservoir with approximately 3.75 gallons Hydraulic Oil (**Note:** In consideration of Power Unit's durability, please use **Hydraulic Oil AW46**). For more information on hydraulic oil, follow or type in the link. <http://www.gregsmithequipment.com/Whats-The-Best-Oil-For-My-Lift>
2. Press button **UP ↑** , the Cables will tighten up.
Make sure the Cables are in the pulley grooves.
3. Press the Handle on the release valve to lock the Cross-beam to the safety ladders, and then adjust the platforms level by adjusting the nuts of Safety Ladders.
4. Adjust the cable fitting Hex nuts so the platforms and four safety locks click at the same time.
Run the lift up and down several times while listening for the safety locks to click at the time.
5. Adjust the clearance between the post and the plastic slider of Cross-beam to about 2mm, and then tighten the fixing nut on the slider.
6. After finishing the above adjustment, test run the lift with a load. Run the lift with the platforms in low position first, make sure the platforms move up and down at the same time and the safety devices can lock and release at the same time. Test run the lift completely to the top. Repeat steps if necessary.

Diagram of the Hydraulic System




**N
O
T
E**

1. Filter
2. Gearpump
3. Motor
4. Relief Valve
5. Check Valve
6. Manual Control Air Valve
7. Throttle Valve
8. Cylinder For Four-post lift

Fig. 46

VI. OPERATION INSTRUCTIONS

To lift a vehicle

1. Keep the work area clean and free of clutter
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. Push the Handle on the release valve to rest the lift on the safety locks. Make sure the Safety device is locked at the same height.

To lower vehicle

1. Be sure there are no people or objects under the lift, only leaving operator in lift area;
2. Press the button **UP until the lift has cleared the locks**, press and hold the manual-controlled air valve to release the safety device. Push the handle on the lowering valve with the other hand. The lift will lower 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 850-100 Foot Pounds.
2. Lubricate cable with lubricant.
3. Check all cable connections, bolts and pins.
4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leaks.
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 do not tighten, 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 ensure level lifting.
3. Check columns for plumb.

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 |

For more detail on motor trouble shooting visit our website link.

<http://www.gregsmithequipment.com/Lift-Motor-Troubleshooting>

IX. PARTS LIST

| Item | Part No. | Description | QTY. | Note |
|---|----------|--------------------------------------|------|------|
| (See Fig.16, Fig.18-Fig.20, Fig.22, Fig.24, Fig.27, Fig.32, Fig.40-Fig.42) | | | | |
| 1 | 460020 | Power Side Column | 1 | |
| 2 | 460021 | Offside Column | 3 | |
| 3 | 460022 | Front Cross Beam | 1 | |
| 4 | 460023 | Rear Cross Beam | 1 | |
| 5 | 209059A | Anchor Bolt | 16 | |
| 6 | 420028B | Safety Ladder | 4 | |
| 7 | 420175A | Hex Nut | 16 | |
| 8 | 470001 | Power Side Platform | 1 | |
| 9 | 460025 | Pulley Shaft Weldment | 2 | |
| 10 | 420023A | Washer | 12 | |
| 11 | 420024A | Pulley | 10 | |
| 11A | 420132A | Bronze Bush for Pulley | 10 | |
| 12 | 420021 | Hex Bolt | 12 | |
| 13 | 209039 | Lock Washer | 2 | |
| 14 | 420144 | Washer | 2 | |
| 15 | 420030 | Hex Bolt | 4 | |
| 16 | 420137 | Spring Washer | 4 | |
| 17 | 420029 | Washer | 4 | |
| 18 | 470002 | Offside Platform | 1 | |
| 19 | 460027 | Hex Bolt | 4 | |
| 20 | 420145 | Oil-water Separator | 1 | |
| 21 | 420146 | Straight Fitting for Air Line | 1 | |
| 22 | 209009 | Cup Head Bolt | 8 | |
| 23 | 420076 | 90° 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 | |
| 31 | 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 | 420010 | 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 | 470003 | Drive-in Ramp | 2 | |
| 44 | 420031 | Tire Stop Plate | 2 | |

| Item | Part No. | Description | QTY. | Note |
|---|----------|---|------|------|
| 45 | 420136 | Hex Bolt | 4 | |
| 46 | 206023A | Hex Nut | 4 | |
| 47 | 420026 | Spring Washer | 4 | |
| 48 | 206006 | Washer | 4 | |
| 49 | 430004 | Plate for Adjustable Turn Plate | 4 | |
| 50 | 430006 | Pin For Slip Plate | 4 | |
| 51 | 450003 | Slip Plate | 2 | |
| 52 | 420157 | Steel Ball Set | 60 | |
| 53 | 420007 | Platform Lock Plate | 4 | |
| 54 | 460029 | Fixing Ring For Oil Cylinder | 1 | |
| 55 | 460030 | Oil Cylinder | 1 | |
| 56 | 420013 | Cylinder Connecting Plate | 1 | |
| 57 | 420014 | Hex Nut | 1 | |
| 58 | 420015 | Split Pin | 1 | |
| Optional Parts (See Fig.42) | | | | |
| 59 | 420158 | Turn Plate | 2 | |
| Parts For Cable (See Fig.21) | | | | |
| 60 | 460031 | No.① Cable | 1 | |
| 61 | 460032 | No.② Cable | 1 | |
| 62 | 460033 | No.③ Cable | 1 | |
| 63 | 460034 | No.④ Cable | 1 | |
| Parts For Hydraulic System (See Fig.25) | | | | |
| 64 | 420166 | 90° Fitting | 1 | |
| 65 | 460035 | Straight Fitting For Cylinder | 1 | |
| 66 | 440008 | Oil Hose | 1 | |
| 67 | 460036 | Extended Straight Fitting (with Nut) | 1 | |
| 68 | 460037 | Oil Hose | 1 | |
| 69 | 440009 | Straight Fitting For Hydraulic Power Unit | 1 | |
| 70 | 420095 | Straight Fitting | 1 | |
| 71 | 440011 | Needle Valve | 1 | |
| 72 | 460038 | 90° Fitting | 1 | |
| Parts For Air Line System (See Fig.25-26 & Fig.28) | | | | |
| 73 | 420124 | T-Fitting For Air Line | 2 | |
| 74 | 420125 | T-Fitting For Air Line | 1 | |
| 75 | 420126A | Straight Fitting For Air Line | 1 | |
| 76 | 440010 | Black Air Line | 1 | |
| 77 | 420167 | Black Air Line | 1 | |
| Parts for Circuit System (See Fig.27, Fig.32, Fig.33) | | | | |
| 78 | 460053 | Wire Cable | 1 | |
| 79 | 460054 | Protecting Plastic Hose | 1 | |
| 80 | 460055 | Protecting Plastic Hose | 1 | |
| Parts For Cross Beam (See Fig.40 & Fig.43) | | | | |
| 3-1 | 460041 | Front Cross Beam Assy. | 1 | |
| 3-2 | 460042 | Pulley Safety Cover | 4 | |
| 3-3 | 209009 | Cup Head Bolt | 8 | |
| 3-4 | 420044 | Stop Plate | 4 | |
| 3-5 | 420138 | Socket Bolt | 8 | |

| Item | Part No. | Description | QTY. | Note |
|---|----------|---|-------|------|
| 3-6 | 420038 | Pin | 12 | |
| 3-7 | 420037 | Snap Ring | 24 | |
| 3-8 | 420033 | Spring | 4 | |
| 3-9 | 420050 | 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 | 420173 | 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) | | | | |
| 55-1 | 460043 | Dust Ring | 1 | |
| 55-2 | 460044 | Y Ring | 1 | |
| 55-3 | 460045 | Head Cap | 1 | |
| 55-4 | 460046 | O Ring | 1 | |
| 55-5 | 460047 | Bore Weldment | 1 | |
| 55-6 | 460048 | Piston Rod | 1 | |
| 55-7 | 460049 | Pin | 1 | |
| 55-8 | 460050 | Support Ring | 1 | |
| 55-9 | 460051 | Y Ring | 1 | |
| 55-10 | 460052 | Piston | 1 | |
| Parts For PEAK Power Unit (See Fig.45) | | | | |
| 31-1 | 440014 | Motor | 1 | |
| 31-2 | 440039 | Capacitor | 2 | |
| 31-3 | 440040 | AC Contactor | 1 | |
| 31-4 | 440015 | Motor Connecting Shaft | 1 | |
| 31-5 | 440041 | Valve Body | 1 | |
| 31-6 | 440017 | Relief Valve | 1 | |
| 31-7 | 440019 | Spring Washer | 4 | |
| 31-8 | 440020 | Socket Bolt | 4 | |
| 31-9 | 440021 | Inlet Pipe | 1 | |
| 31-10 | 440022 | O-Ring | 1 | |
| 31-11 | 440023 | Filter | 1 | |
| 31-12 | 440024 | Hex Bolt | 4 | |
| 31-13 | 440025 | Reservoir | 1 | |
| 31-14 | 440042 | Cover of Motor Terminal Box | 1 | |
| 31-15 | 440043 | Control Switch | 1 | |
| 31-16 | 440044 | Screw | 6 | |

| Item | Part No. | Description | QTY. | Note |
|-------------|-----------------|--------------------------|-------------|-------------|
| 31-17 | 440026 | Oil Return Port | 1 | |
| 31-18 | 440027 | Oil Outlet | 1 | |
| 31-19 | 440045 | Release Valve | 1 | |
| 31-20 | 440046 | Handle For Release Valve | 1 | |
| 31-21 | 440047 | Washer | 1 | |
| 31-22 | 440048 | Hex Nut | 1 | |
| 31-23 | 440028 | Check Valve | 1 | |
| 31-24 | 440030 | Gear Pump | 1 | |
| 31-25 | 440031 | Oil Return Pipe | 1 | |
| 31-26 | 440032 | Filter Cap | 1 | |