

# INSTALLATION & OPERATION MANUAL



## Atlas PX-16A 16,000 lb. Capacity Alignment Scissor Lift



**Atlas Automotive Equipment**  
[www.atlasautoequipment.com](http://www.atlasautoequipment.com)  
(866) 898-2604

Revised 01/15/2020

**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 \_\_\_\_\_

---

# Contents

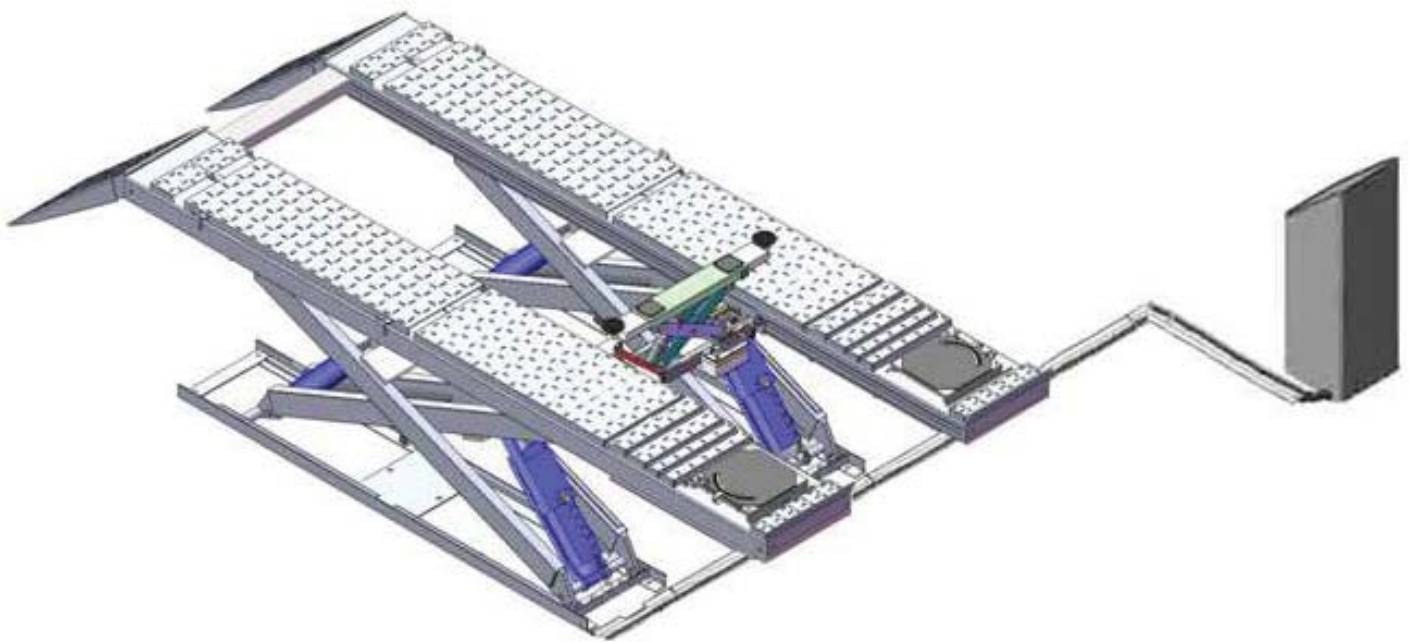
---

PX-16A Specifications . . . . .	4
Installation Requirement . . . . .	5
Installation Steps . . . . .	7
Test Run . . . . .	29
Operation Instructions. . . . .	31
Maintenance Schedule. . . . .	32
Trouble Shooting . . . . .	34
Exploded View . . . . .	35
PX-16A Parts List . . . . .	39
Warranty . . . . .	48

---

# PX-16A Specifications

- Electric-air control system, safety self-lock mechanism
- 2-Dual synchronous cylinders are applied to assure the lifting level on both platforms
- Skid proof diamond runway
- Integrated rear slip-plates
- Heavy duty design, fit for a wide range of vehicle car to van and light truck
- Includes Turntables
- Optional Jack (with hand pump/air-operated hydraulic pump)
- • Optional Turnplate (1 manual or air rolling jack; 2 turnplate)



**Fig. 1**

Lifting Capacity	Lifting Height	Min. Height	Lifting Time	Overall Length (Inc.Ramps)	Overall Width	Runway Width	Distance Between Runway	Gross Weight	Motor
7.3T 16000 lbs	1870mm 73 5/8"	330mm 13"	82 sec.	6964mm 274 1/8"	2390mm 94"	625mm 24 5/8"	1055mm 41 1/2"	2784Kg 6132 lbs	2.0HP

# Installation Requirement

---

## Tools Required

Rotary Hammer Drill ( $\Phi 19$ ,  $\Phi 10$ ,  $\Phi 4$ ,)



Carpenter's Chalk



Hammer



Screw Drivers



4 Foot Level



Tape Measure (25ft)



Crescent Wrench (12")



Pliers



Ratchet & Socket (28mm)



Grease gun



Wrench set (mm)  
(8#, 14#, 15#, 17#, 19#)



Vise Grips



**Fig. 2**

## 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 4 inches thick 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/cm<sup>2</sup>) minimum.
3. Floors must be level and no cracks.

## Power Supply

The electrical source must be 3Kw minimum. The source cable size must be 2.5mm<sup>2</sup> and in good condition of contacting with floor.

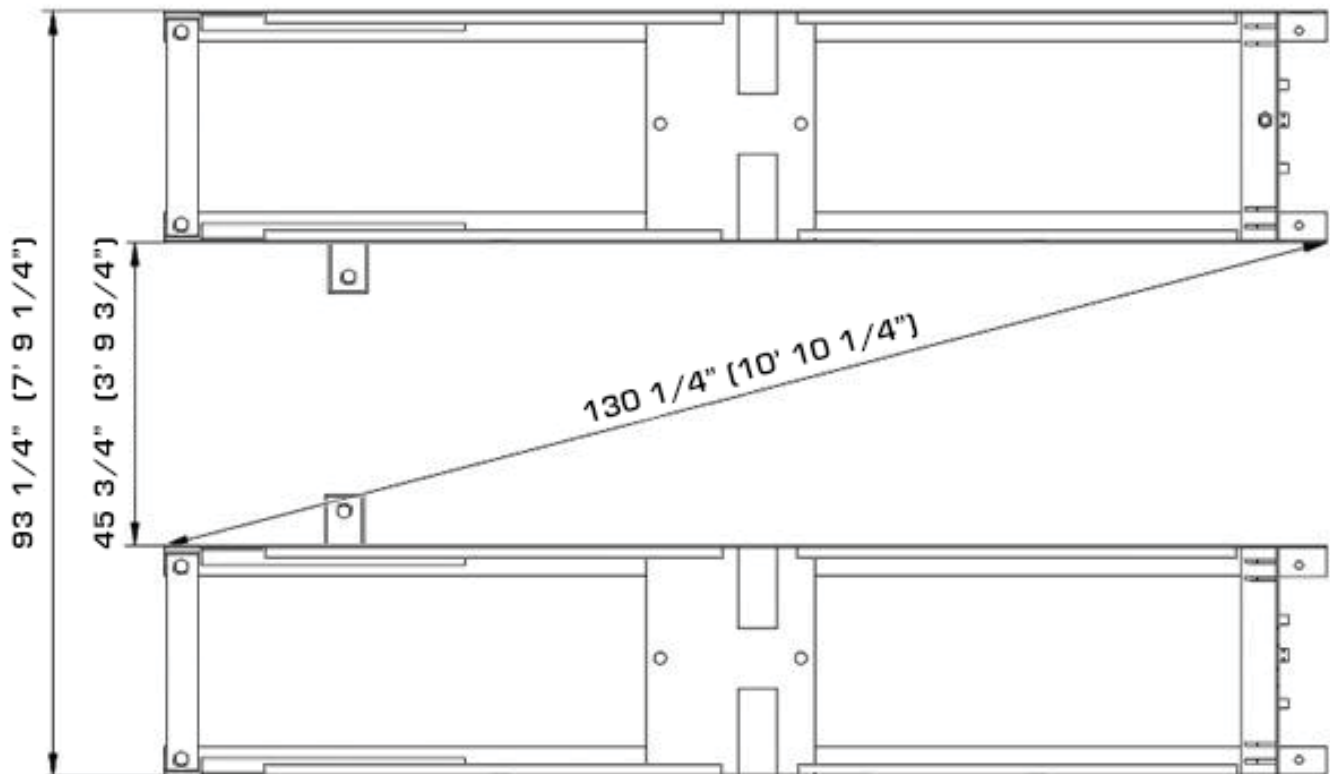
# Installation Steps

## A. Location of Installation

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

### 1. For Standard Installation: On surface installation

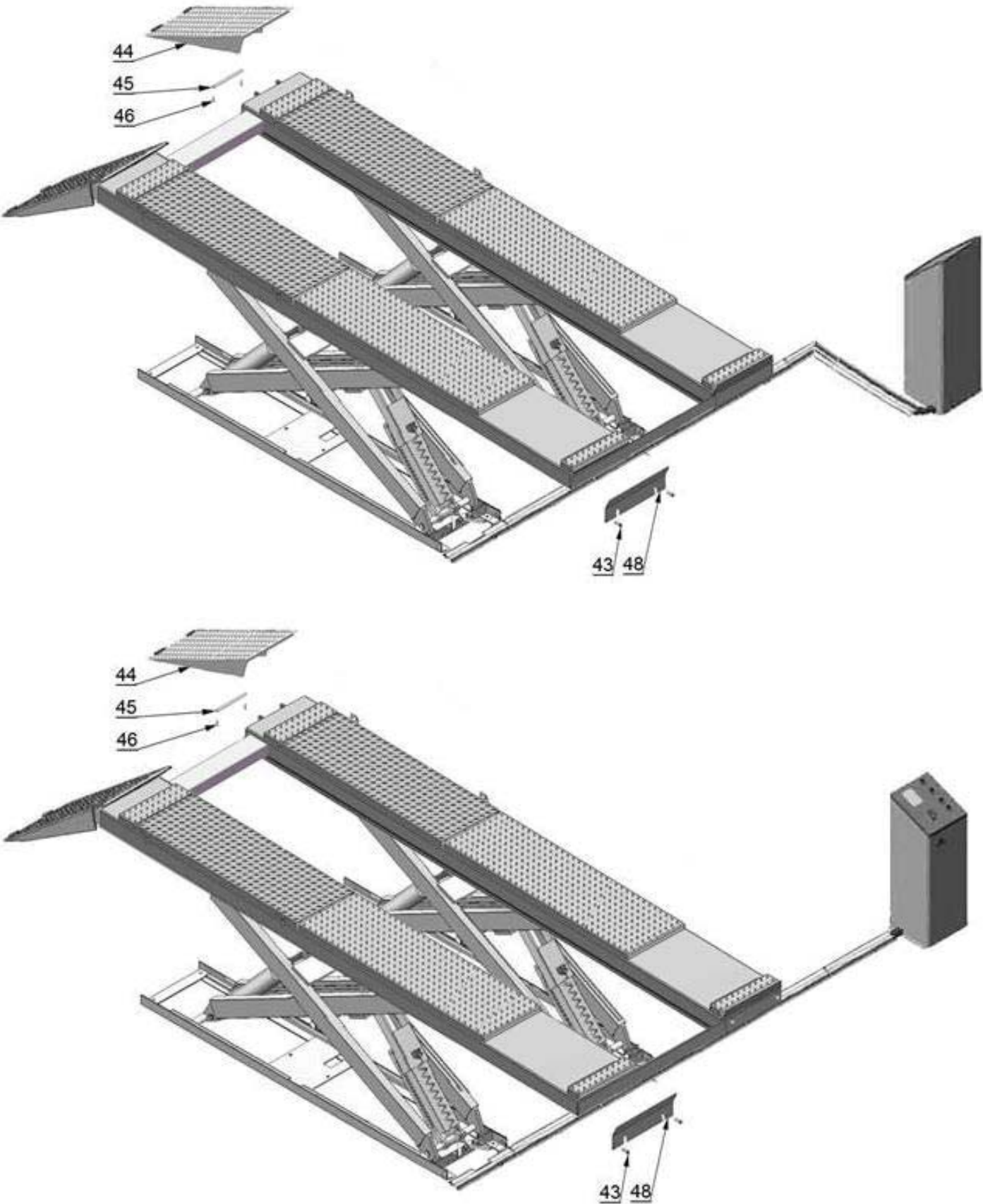
#### 1.1 On surface installation foundation (See Fig. 3).



**Fig. 3**



1.2 Illustration for on surface installation (See Fig. 4).

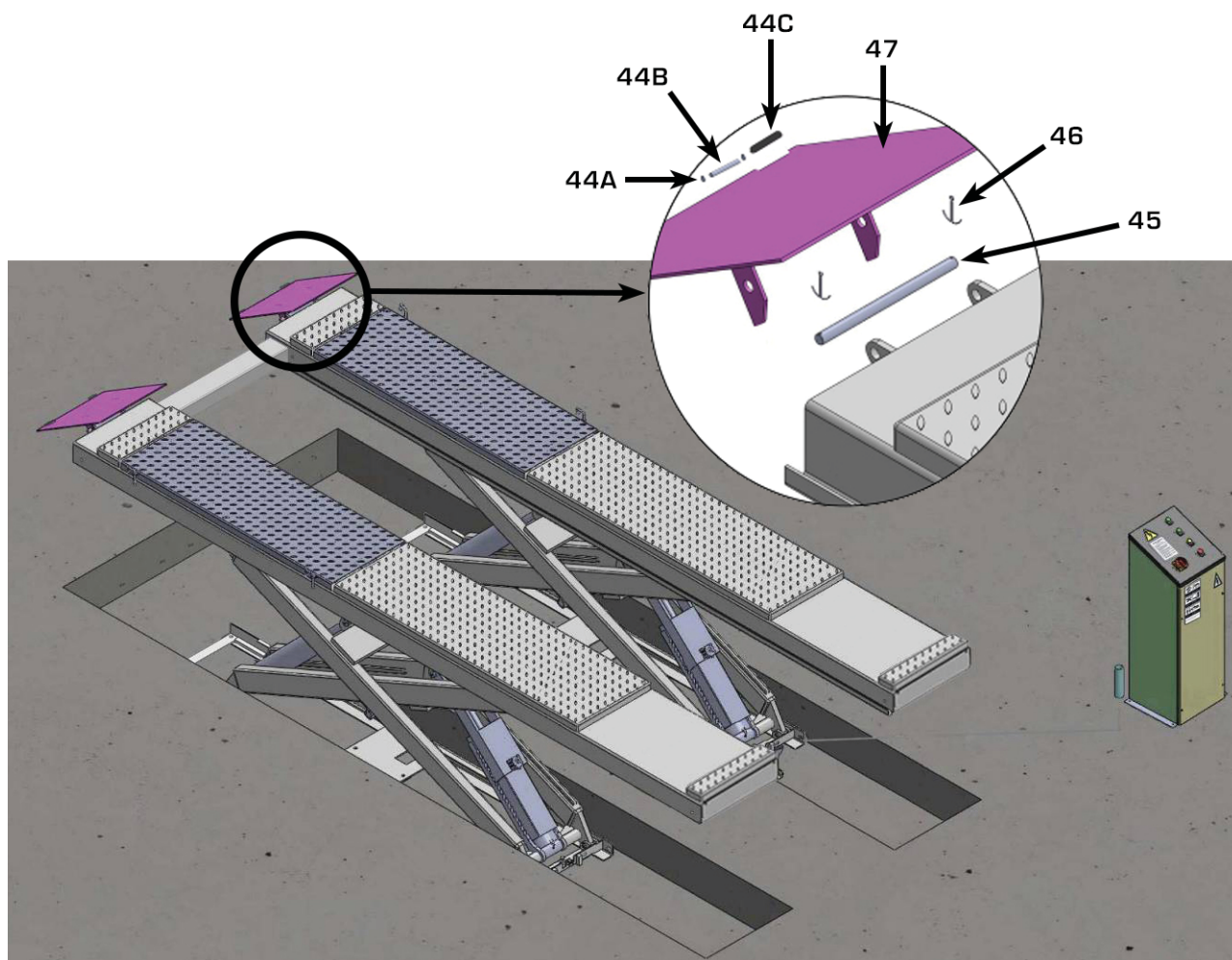


**Fig. 4**





2.2 Illustration for flush mount installation (**Fig. 6**).



**Fig. 6**

## B. Check the parts before assembly.

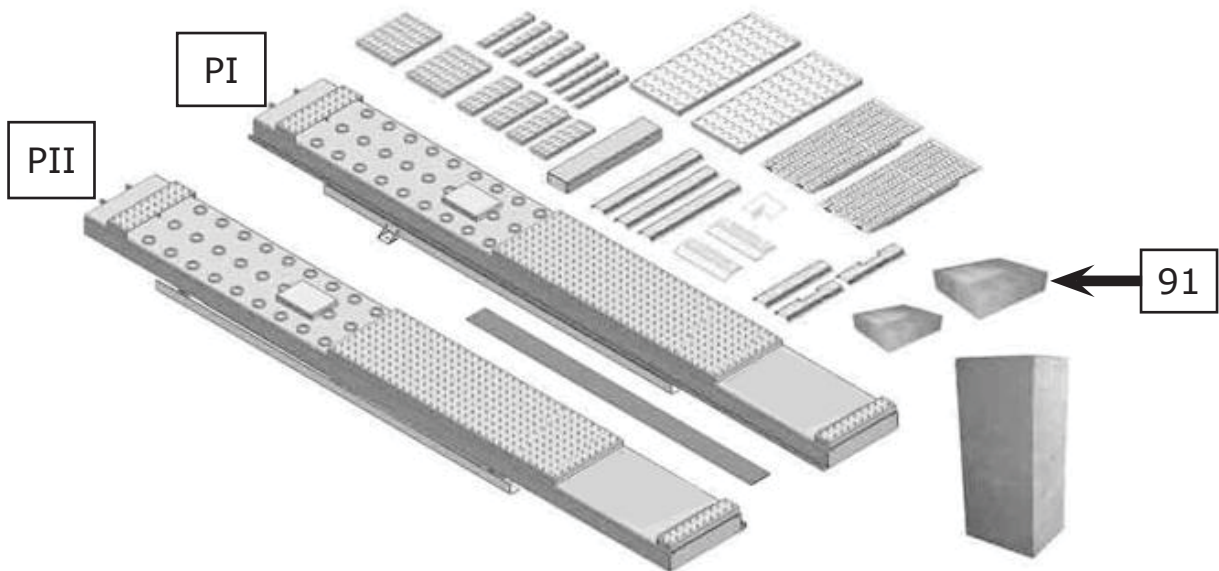
1. Packaged lift and control cabinet (See Fig. 7).



**Fig. 7**

2. Move aside the lift with fork lift or hoist, and open the outer packing carefully.

- 2.1 Parts for on surface installation (See Fig. 8)



**Fig. 8**

2.2 Parts for flush mount installation (See Fig. 9)

Noted: Need guide ramp for flush mount installation

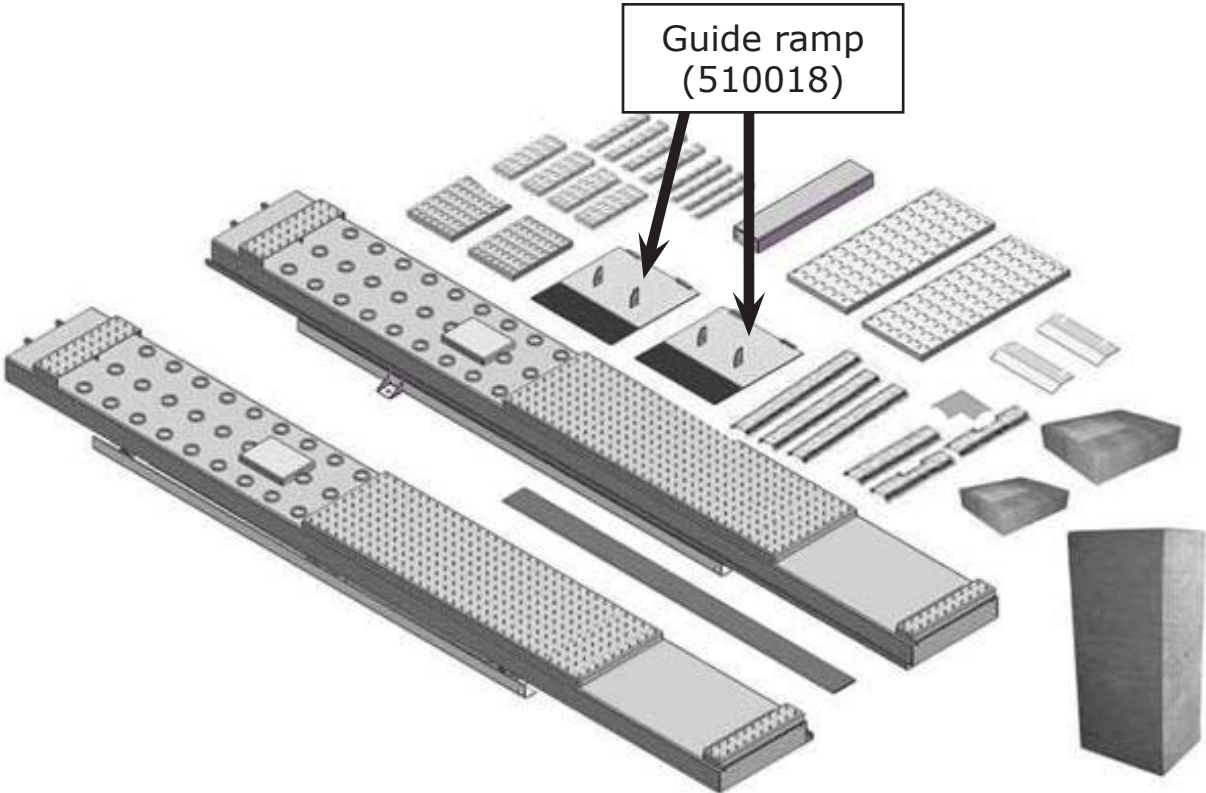


Fig. 9

3. Open the parts box, check the parts according to the part list (See Fig. 10).

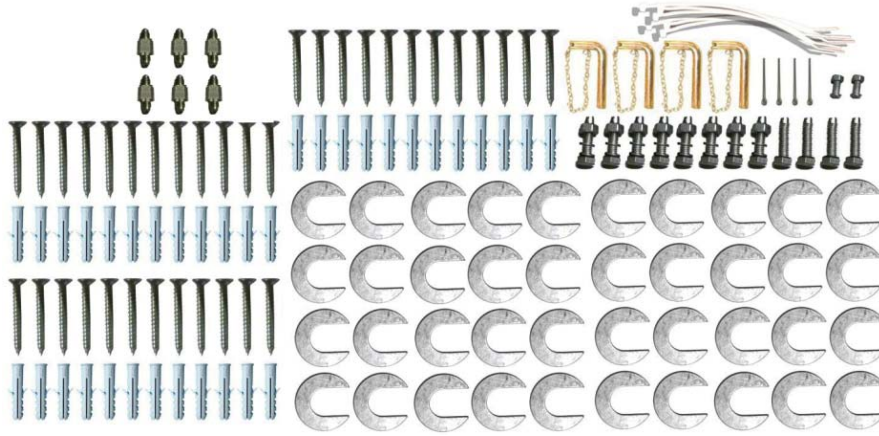


Fig. 10



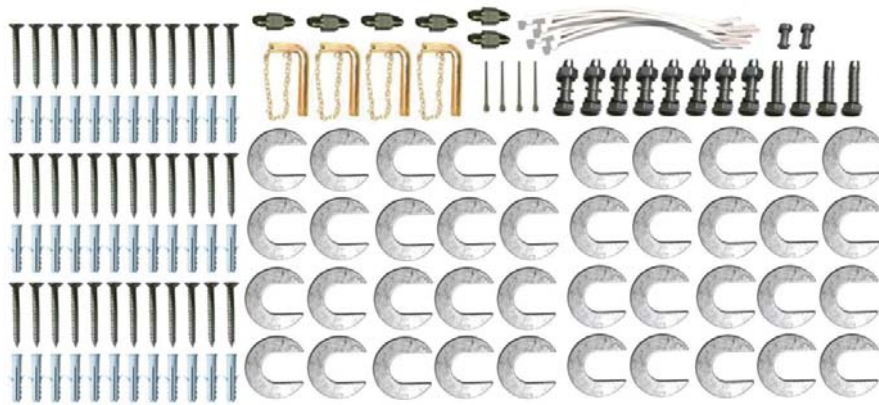
4. Check the parts of the parts bag according to the parts bag list.

4.1 Parts bag for on surface installation (**See Fig. 11**)



**Fig. 11**

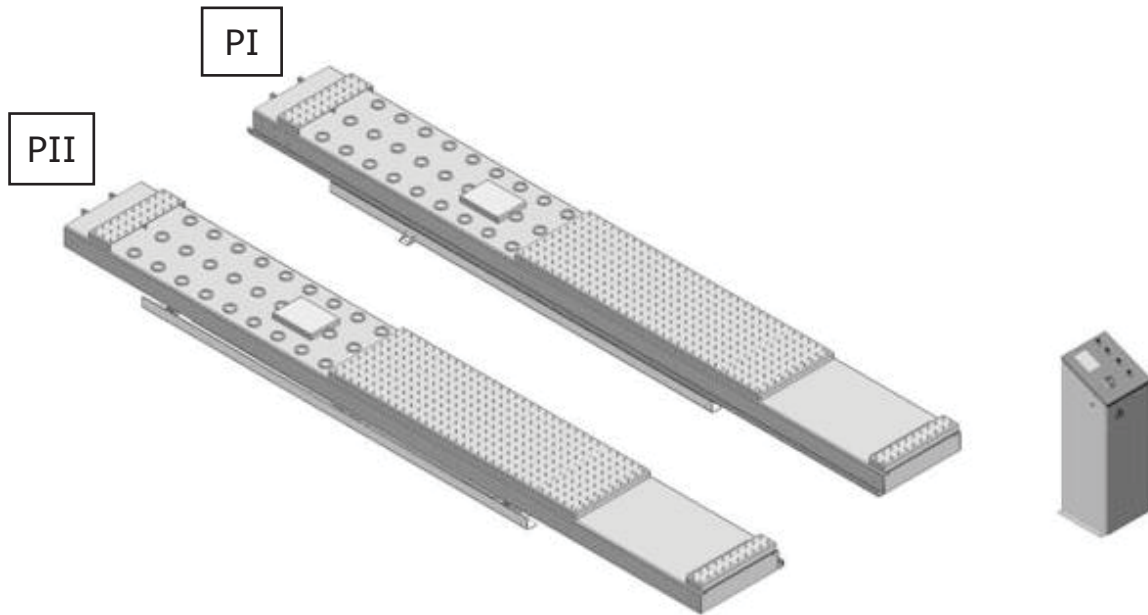
4.2 Parts bag for flush mount installation (**See Fig. 12**)



**Fig. 12**

## C. Layout the machine and install oil system and air line system.

1. Select a location and layout the equipment according to steps **A (See Fig. 13)**. The control cabinet can be installed on the left or right according to the site.

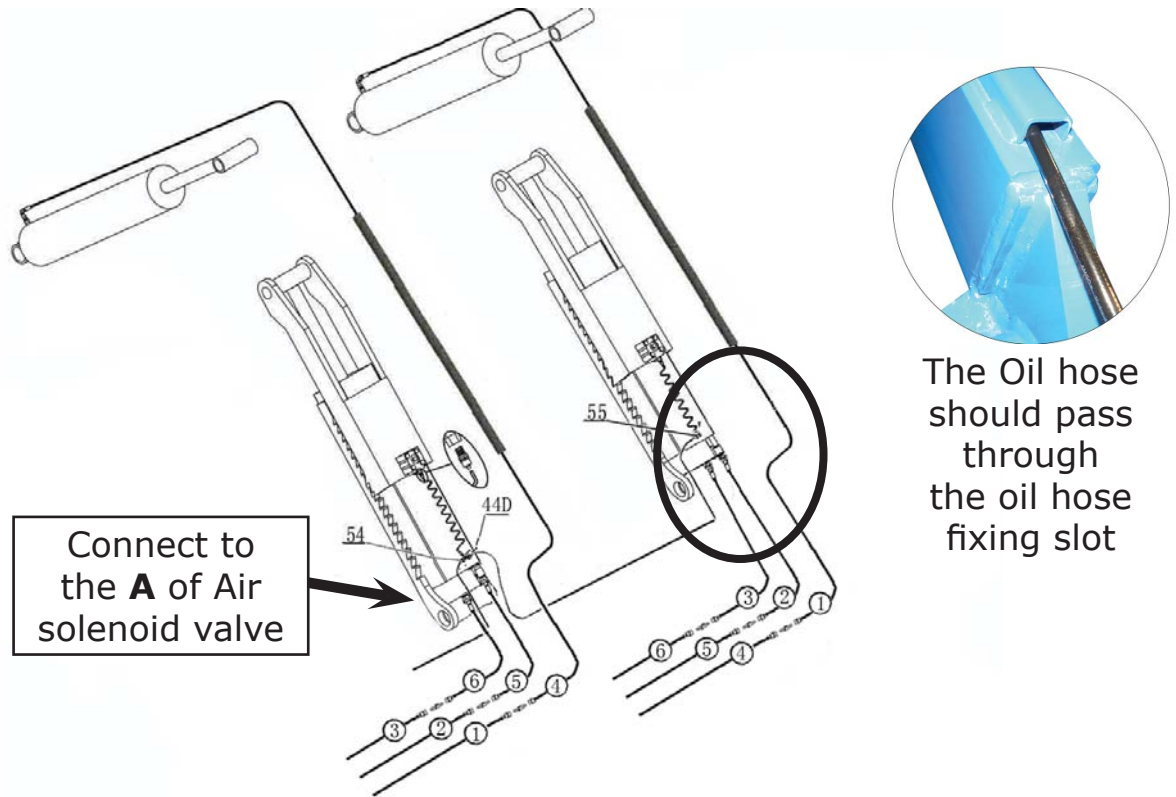


**Fig. 13**



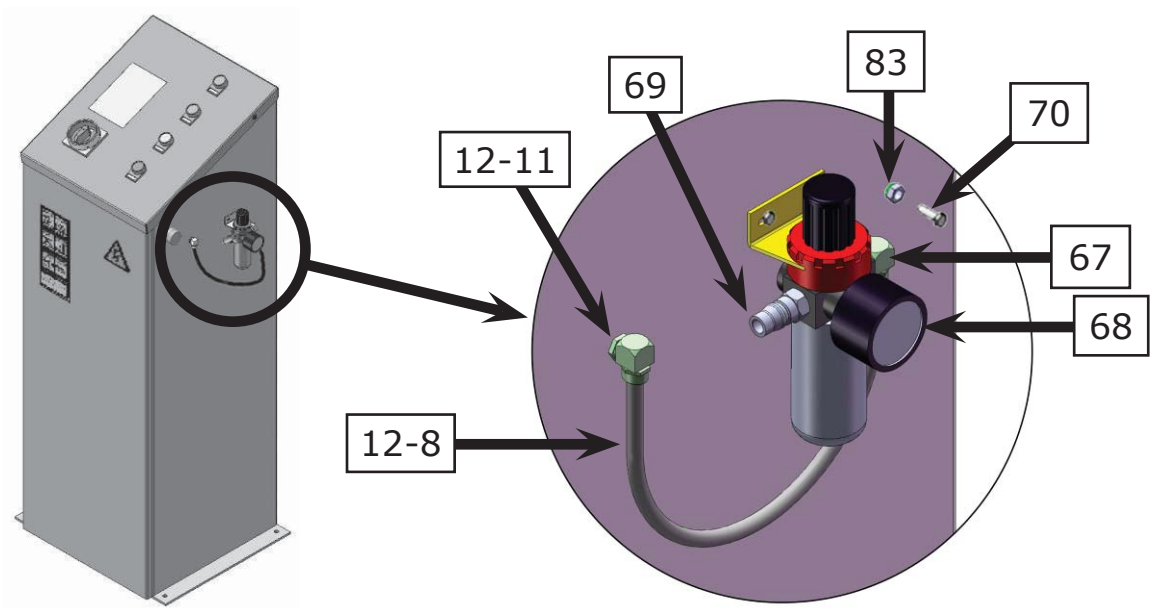


2.2 Control cabinet installed in the right of the car in direction (**See Fig. 15**).



**Fig. 15**

3. Install the oil-water separator (**See Fig. 16**).



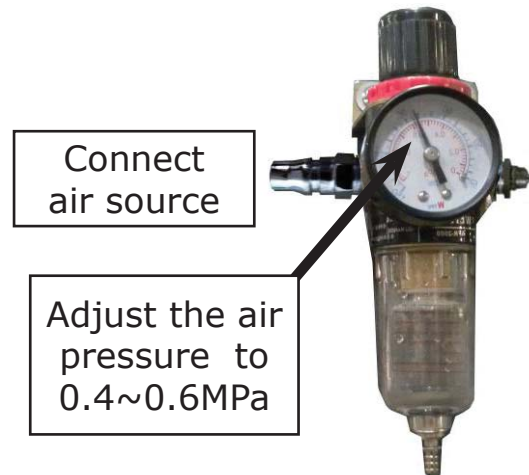
**Fig. 16**

Connecting the air source by the oil-water separator

4. Connect the air source (air pressure  $5\text{kg}/\text{cm}^2$ - $8\text{kg}/\text{cm}^2$  ). Adjust the air pressure to  $0.4\sim 0.6\text{MPa}$  (**See Fig. 17**).



Clockwise to increase the air pressure.  
Counter-clockwise to reduce the air pressure.  
Adjust the air pressure to  $0.4\sim 0.6\text{MPa}$

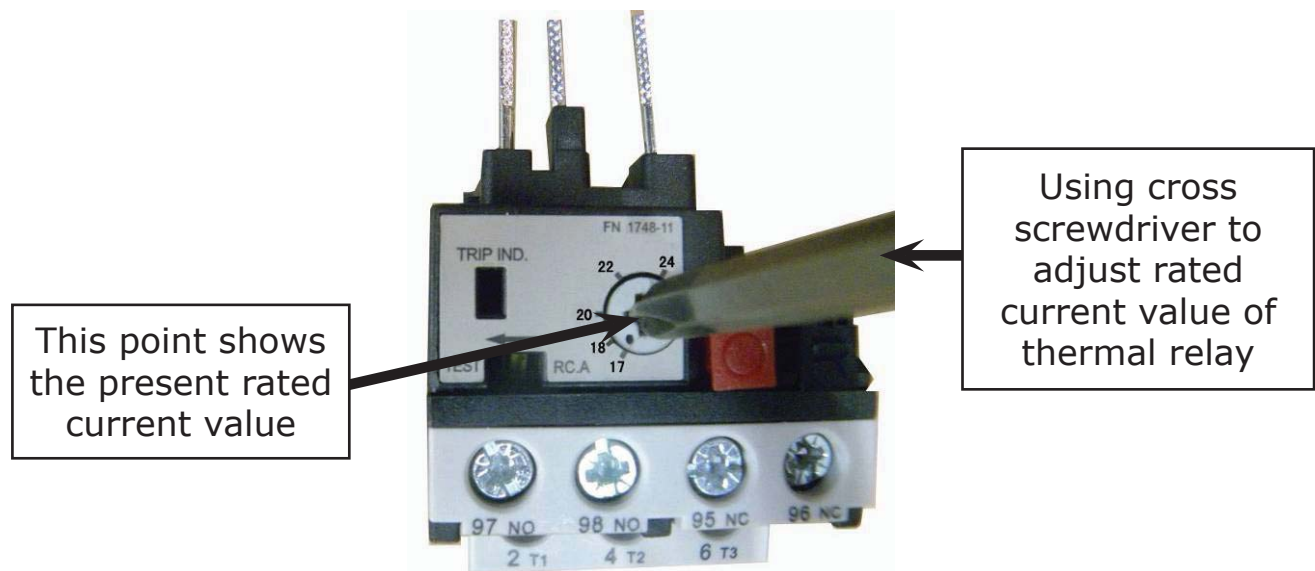


**Fig. 17**

## D. Install electric system

1. Adjusting the current rating of thermal relay in control box according to the different configurations of hydraulic power unit. In general, the electric current of thermal relay should equal or larger than that of motor. The following table shows rated current regulation of thermal relay in case of different hydraulic power unit.

Hydraulic power unit	Single phase /4.0HP	Three phase /4.0HP
Rated current of thermal relay	22A	14A



**Fig. 18**

## 2. Wire connection for hydraulic power unit (380V)

2.1 Connect the power wire and limit switch wire according to the Wiring diagram (See Fig. 19).

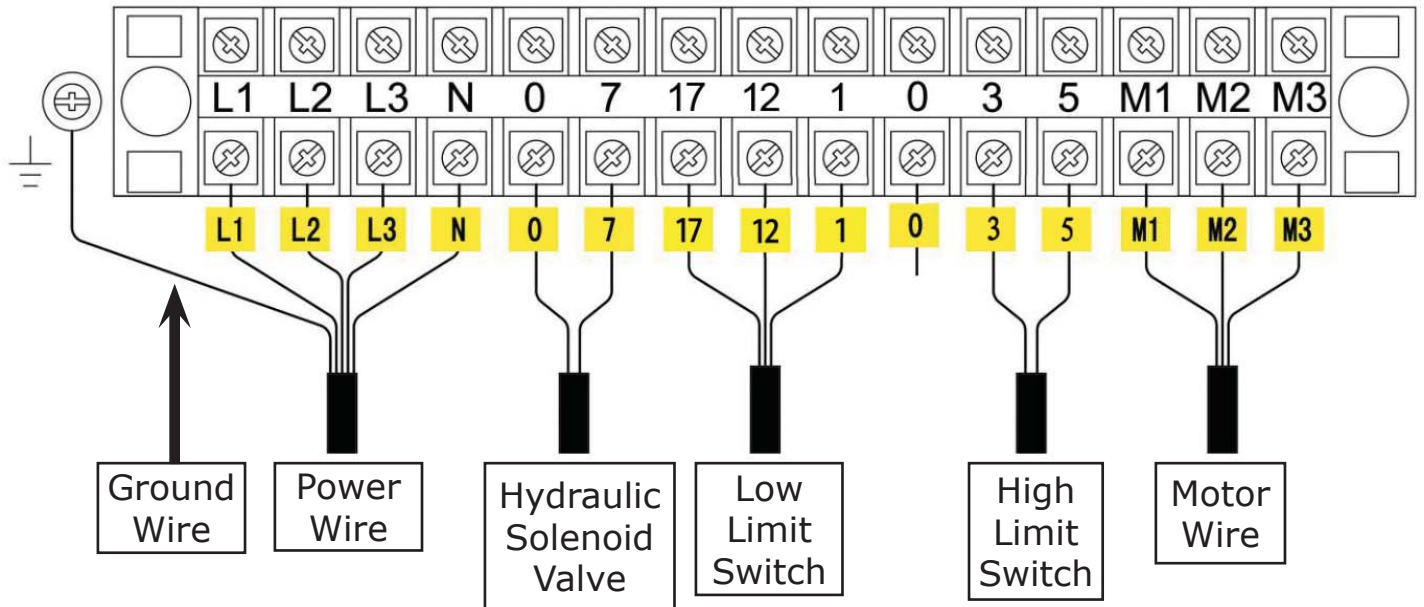


Fig. 19

2.2 Circuit Diagram (See Fig. 20).

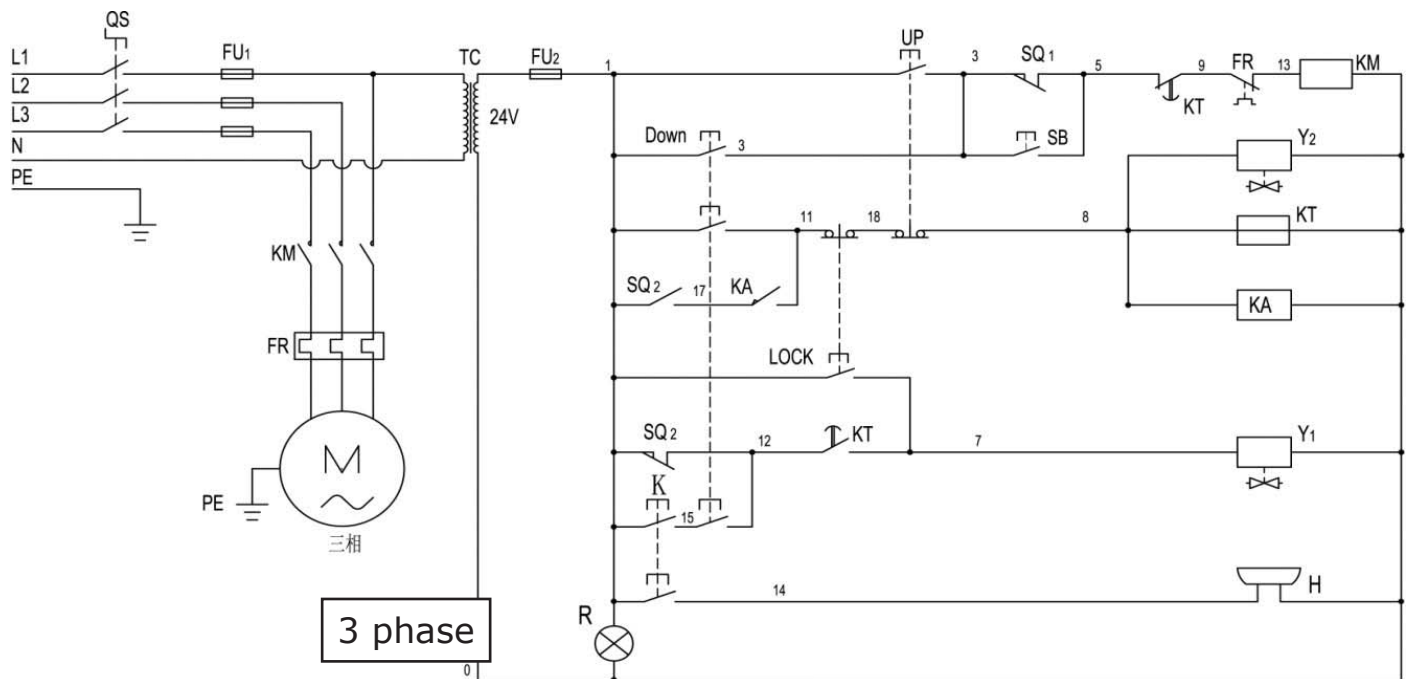


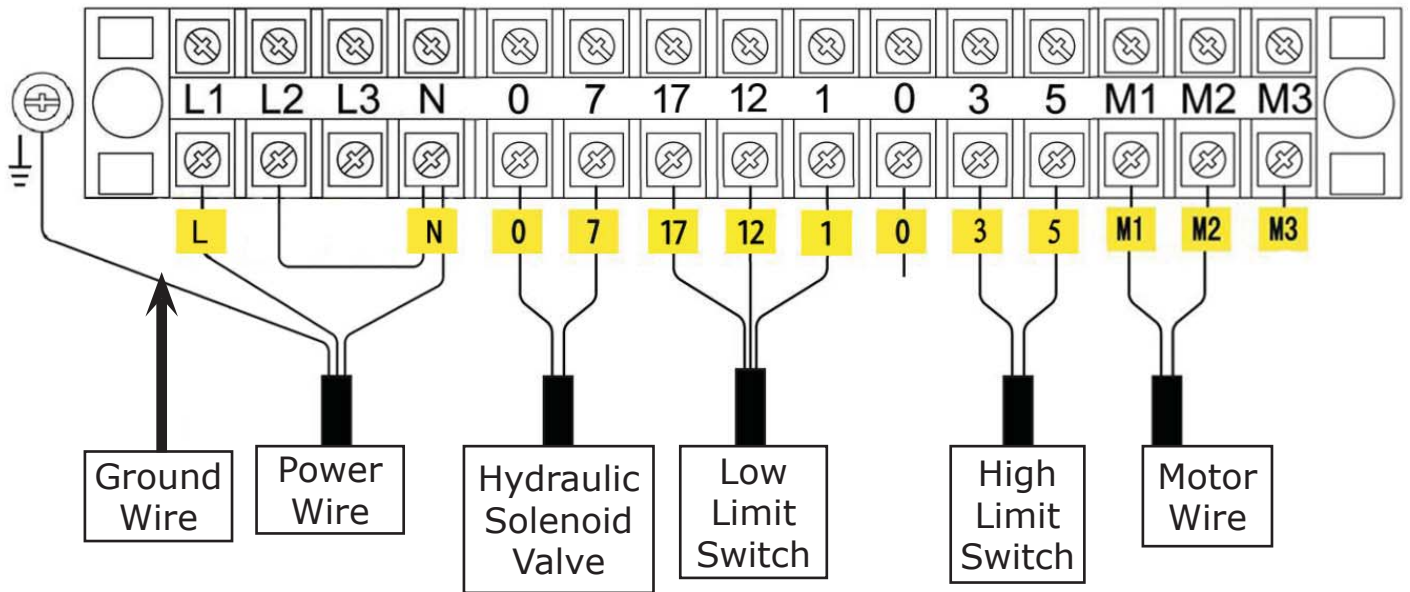
Fig. 20

## Electric Component

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power switch	QS	380V AC	10	Push button	UP	Duplex
2	Fuse	FU1	25A	11	Push button	LOCK	Duplex
3	Fuse	FU2	3A	12	Push button	Down	Triple
4	AC contactor	KM	24V AC	13	Lower Alarm button	K	Duplex
5	Thermal relay	FR	12A-18A	14	Motor	M	Triple
6	Time relay	KT	24V AC	15	Buzzer	H	24V AC
7	Limit Switch	SQ <sub>(1~2)</sub>	10A	16	Transformer	TC	24V AC
8	Hydraulic Solenoid Valve	Y1	AC 24V	17	Intermediate relay	KA	24V AC
9	Air solenoid Valve	Y2	AC 24V	18	Power indicator	R	24V AC

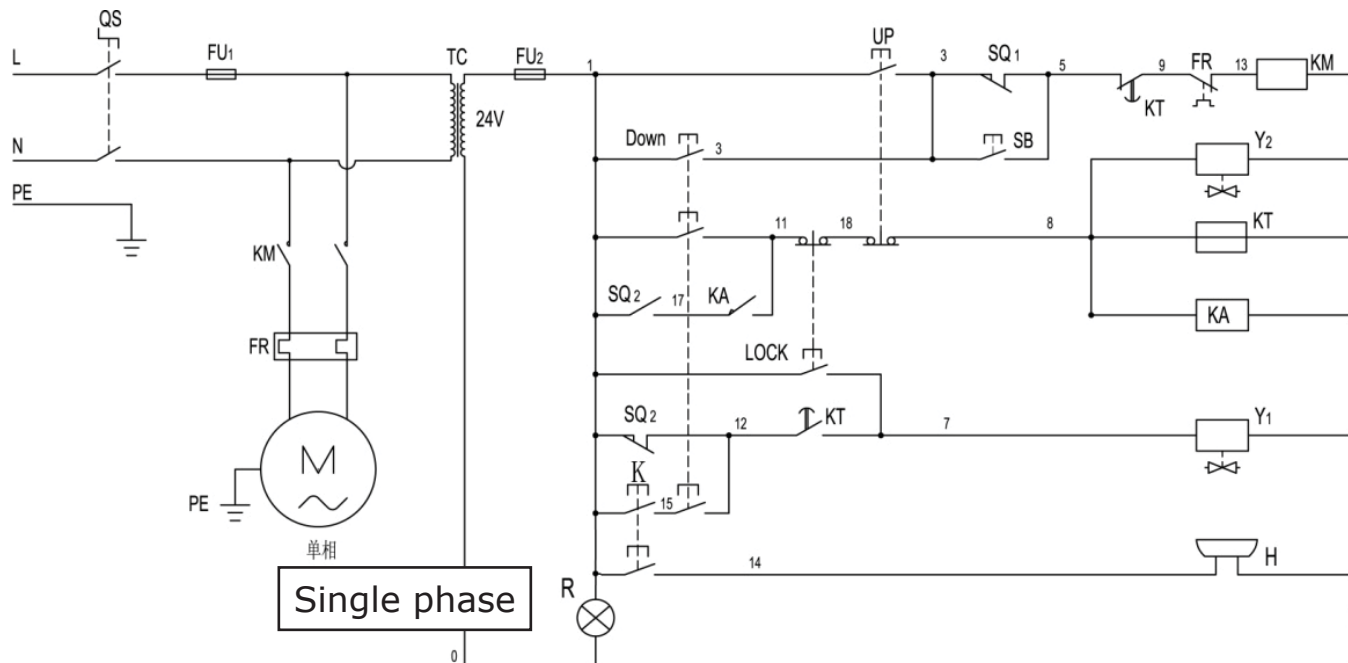
### 3. Wire connection for hydraulic power unit (**220V**)

3.1 Connect the power wire and limit switch wire according to the Wiring diagram (**See Fig. 21**)



**Fig. 21**

### 3.2 Circuit Diagram (See Fig. 22).



**Fig. 22**

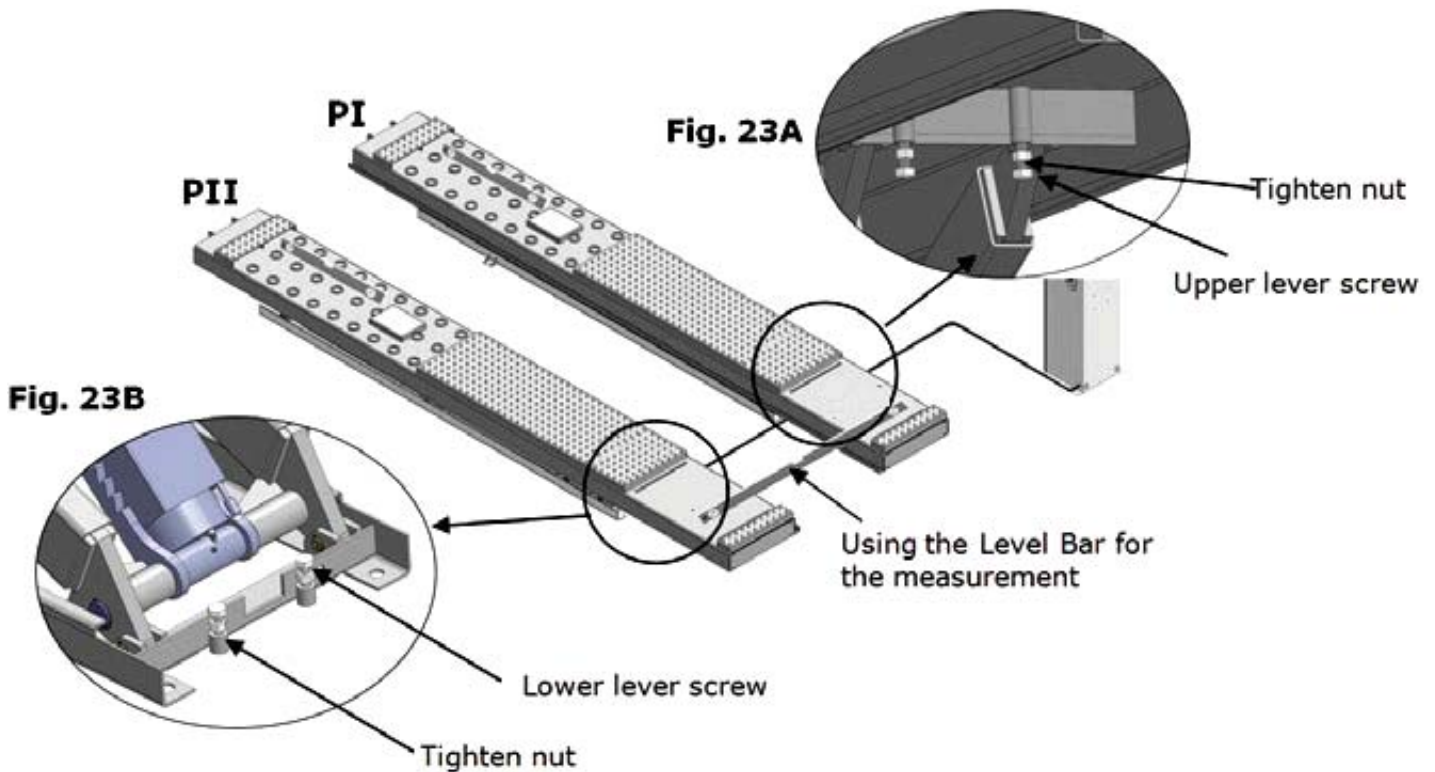
### Electric Component

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power switch	QS	380V AC	10	Push button	UP	Duplex
2	Fuse	FU1	25A	11	Push button	LOCK	Duplex
3	Fuse	FU2	3A	12	Push button	Down	Triple
4	AC contactor	KM	24V AC	13	Lower Alarm button	K	Duplex
5	Thermal relay	FR	12A-18A	14	Motor	M	Single phase
6	Time relay	KT	24V AC	15	Buzzer	H	24VAC
7	Limit Switch	SQ <sub>(1~2)</sub>	10A	16	Transformer	TC	24V AC
8	Hydraulic solenoid valve	Y1	24V AC	17	Intermediate relay	KA	24VAC
9	Air solenoid valve	Y2	AC 24V	18	Power indicator	R	24VAC



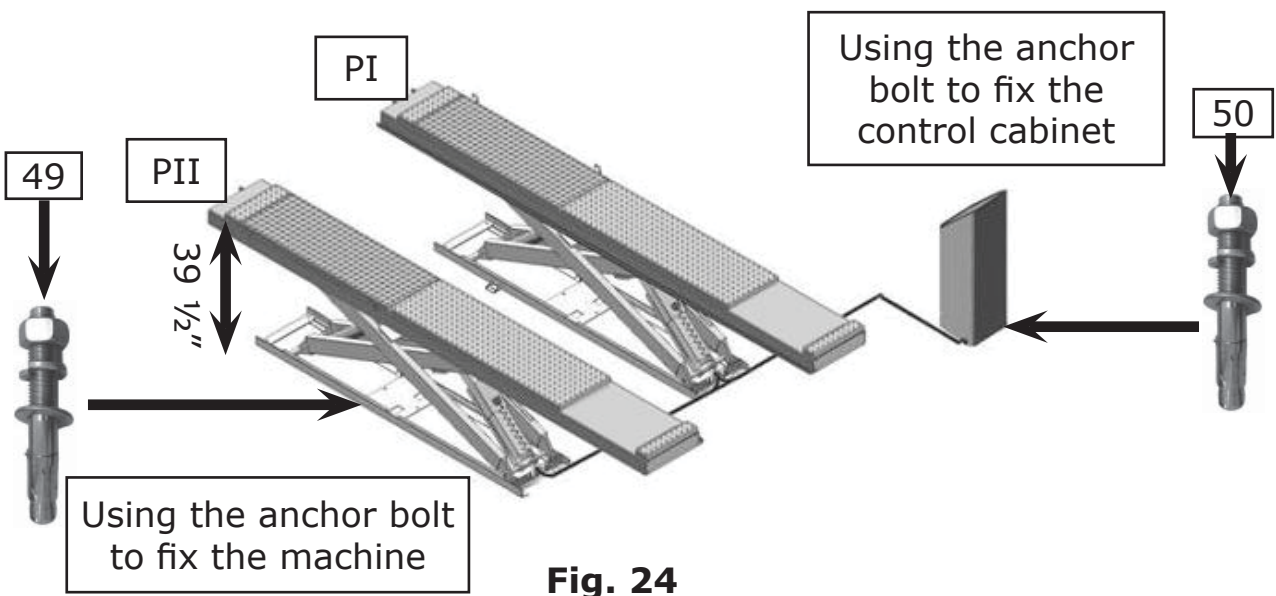
## E. Level two platforms and install anchor bolts.

1. Check by level bar and use the shim to adjust the platforms until two platforms are in the same level (**See Fig. 23**).



**Fig. 23**

2. Install anchor bolts.
  - 2.1 Raise the lift to 39 1/2" then drill holes to install the anchor bolts (**See Fig. 24**).



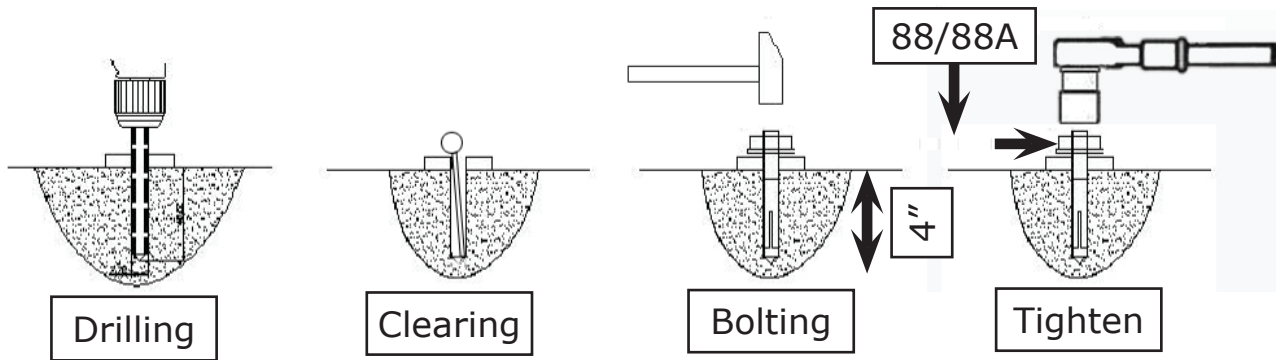
**Fig. 24**



- 2.2 Fix the anchor bolts. Drilling the hole for the anchor bolt with the rotary hammer drill, type the anchor bolt into the ground, and then fasten it with ratchet spanner (**See Fig. 25**). **Note: The torque of anchor bolt is 86 foot pounds, the length inside ground of anchor bolt must be over 4".**

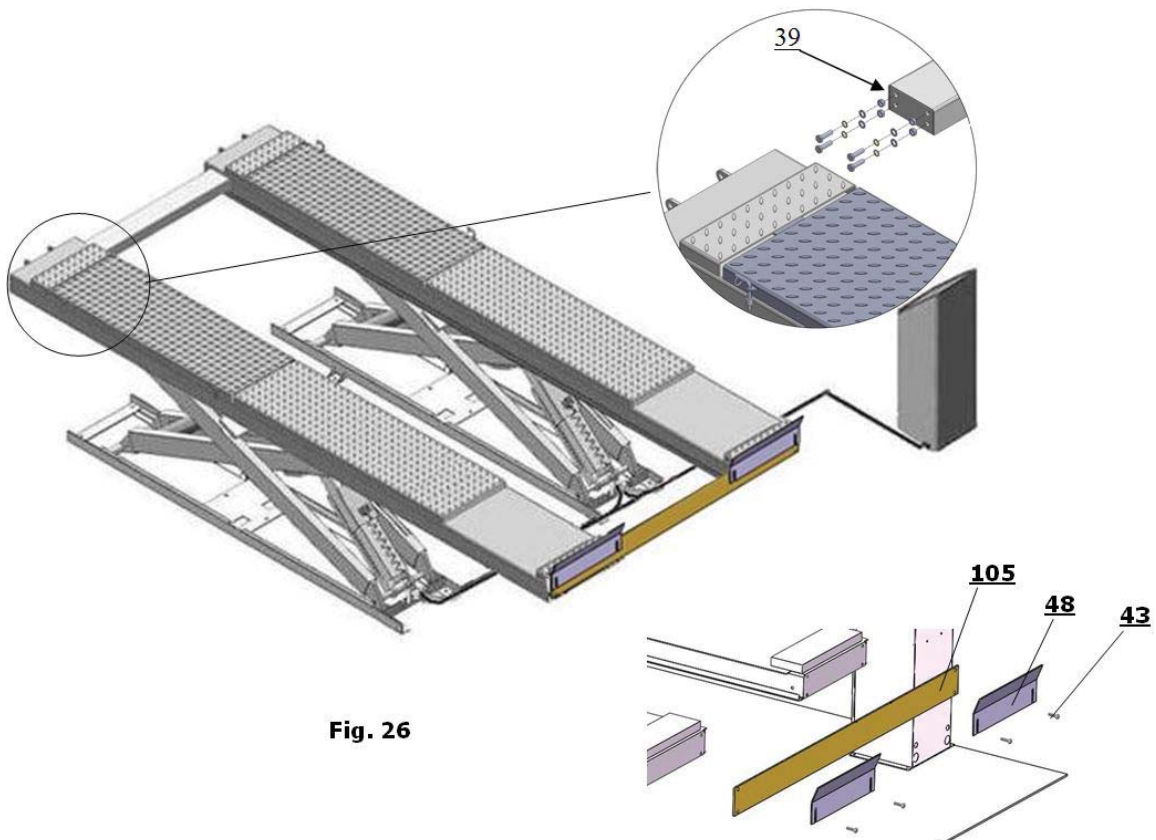
**For the lifts: use  $\Phi 19$  driller to drill hole**

**For the control cabinet: use  $\Phi 10$  driller to drill hole**



**Fig. 25**

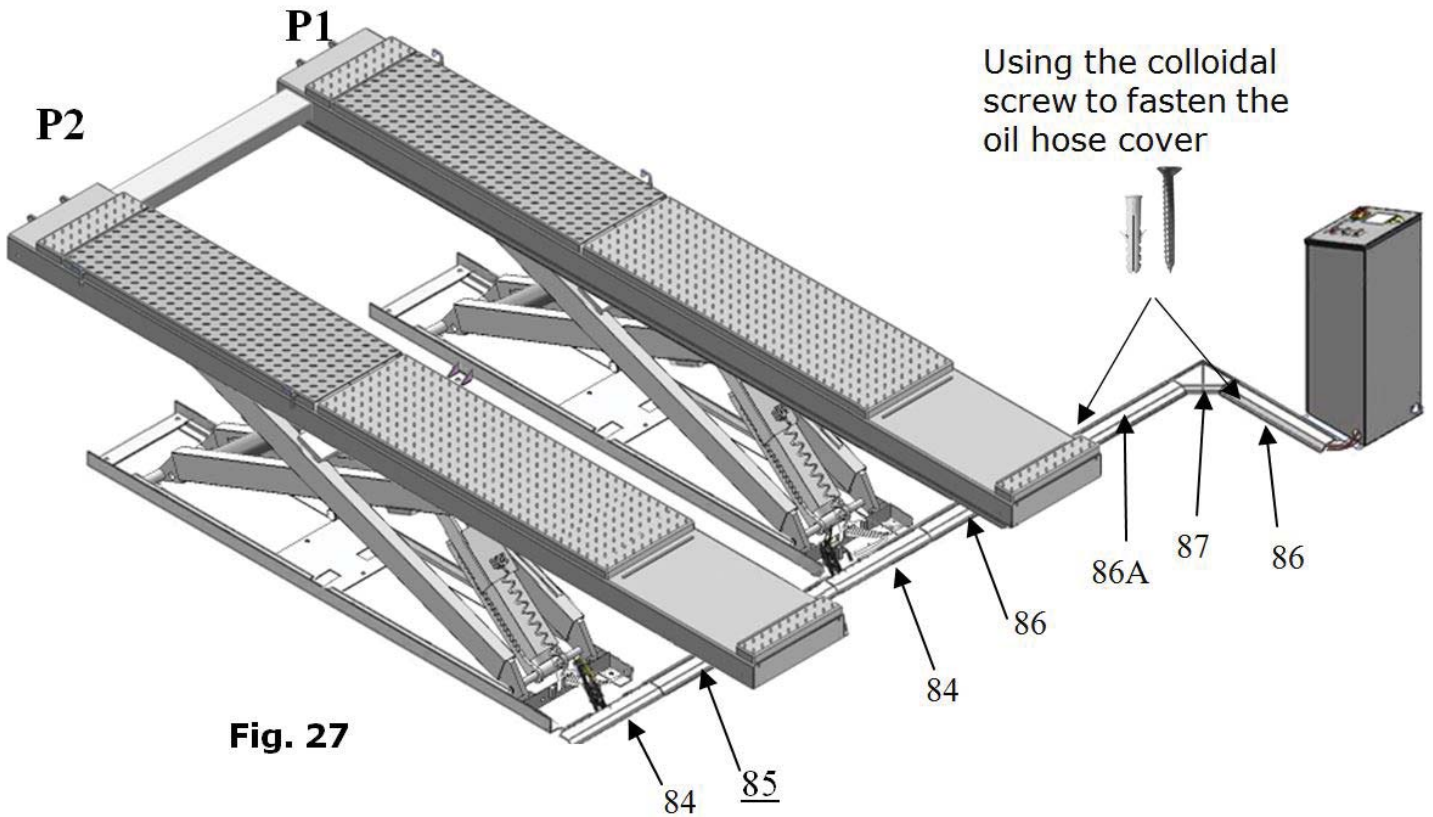
## F. Install platform runway connecting bar, connecting plate and tire stop plate (See Fig. 26)



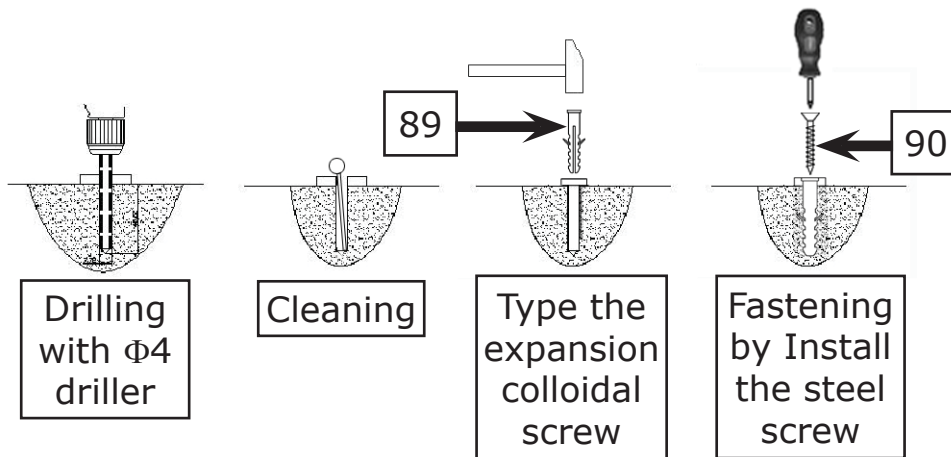
**Fig. 26**

## G. Install oil hose cover for on surface installation.

1. Tidy up the oil hose and air line, cover the oil hose cover (**See Fig. 27**).

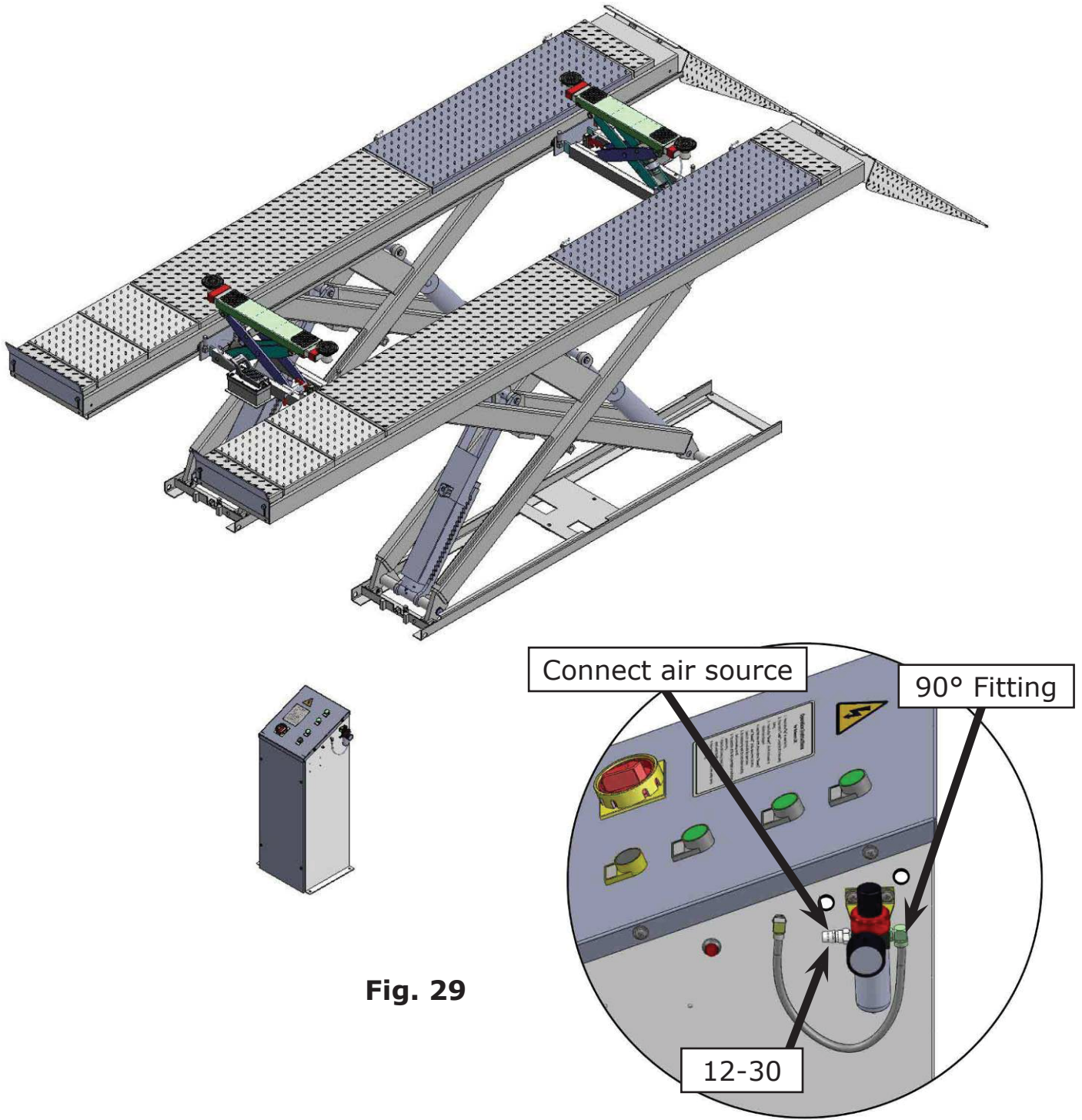


2. Install the oil hose cover (**See Fig. 28**).



**Fig. 28**

## H. Install air line kits for PX16 (See Fig. 29)

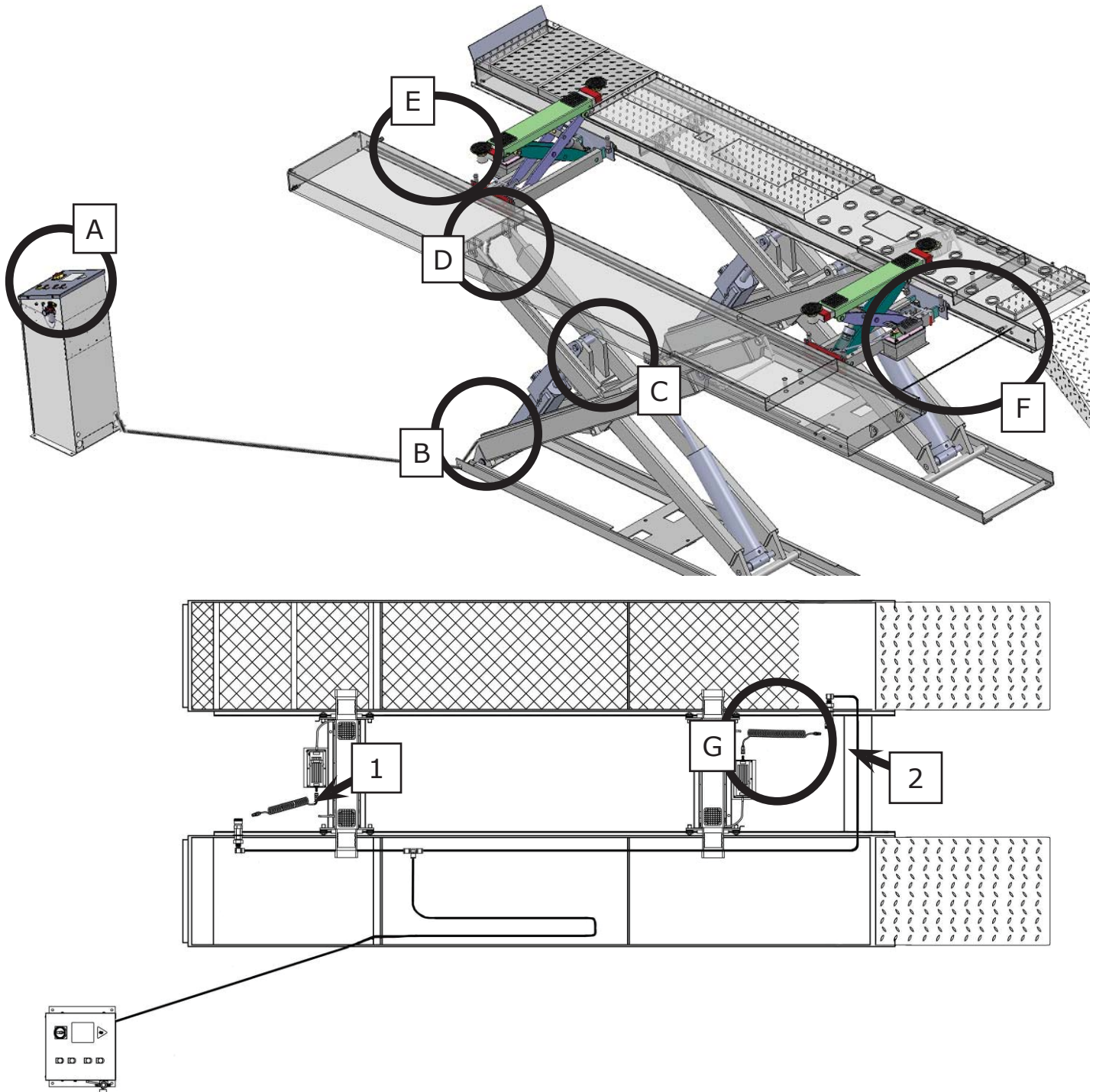


**Fig. 29**



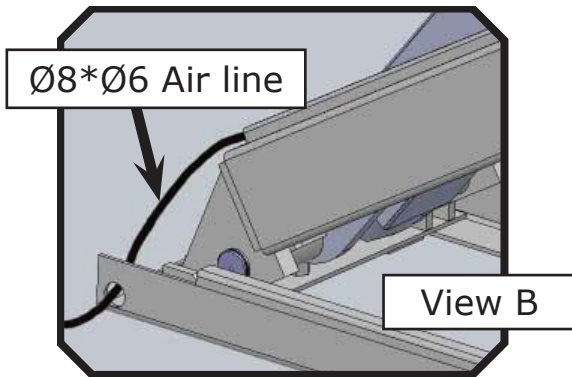
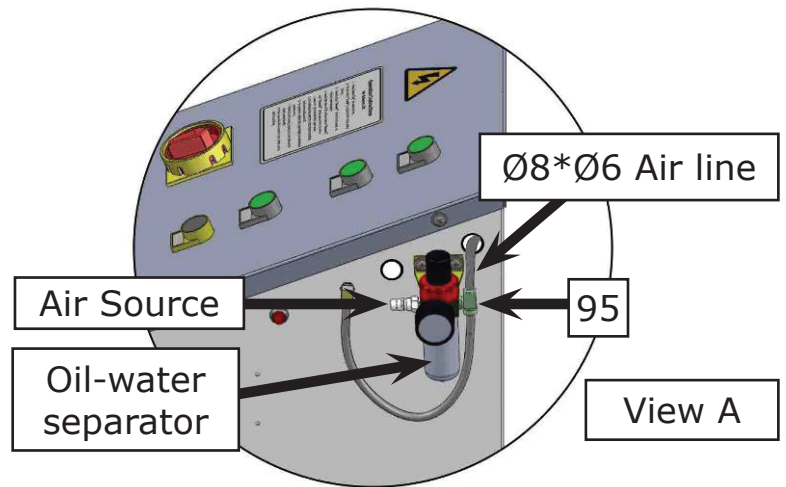
## a. Connect air line kits

1. Connect the air line fittings with  $\text{Ø}8*\text{Ø}6$  black air line (length of air line can be cut accordingly).

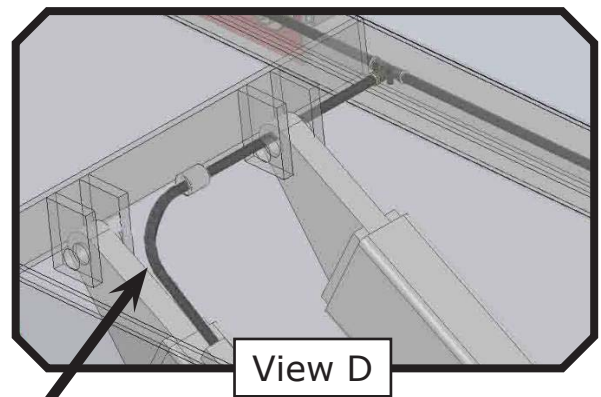
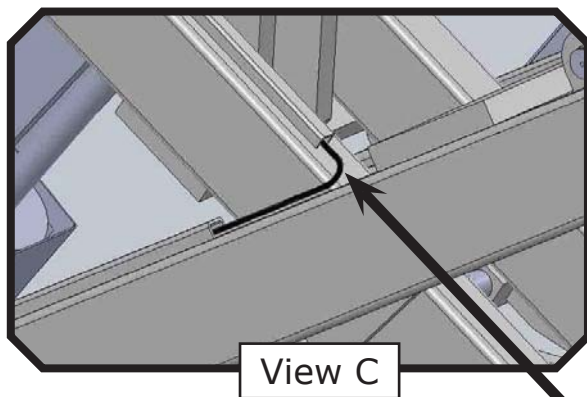


**Fig. 30**

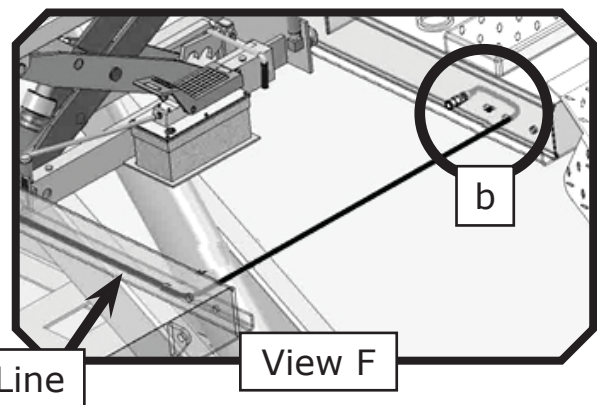
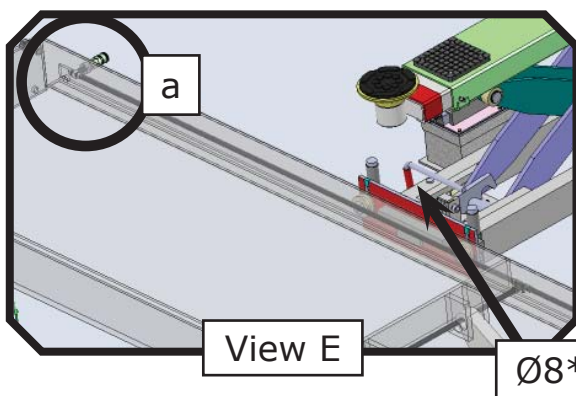
2. First replace the 90° air line fitting on the oil-water separator by the T fitting; Then pass the Ø8\*Ø6 black air line through control cabinet and connect it to the upper end of T fitting.



3. Pass the Ø8\*Ø6 black air line through the hole of base and oil hose fixing slot on the outer scissors.

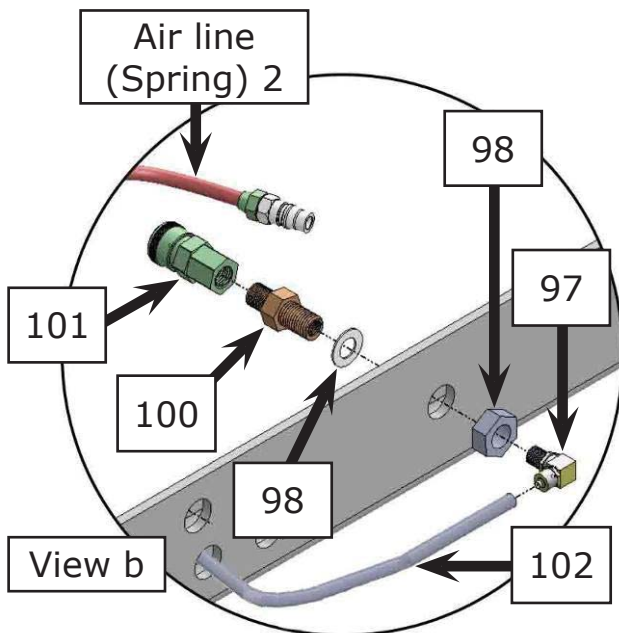
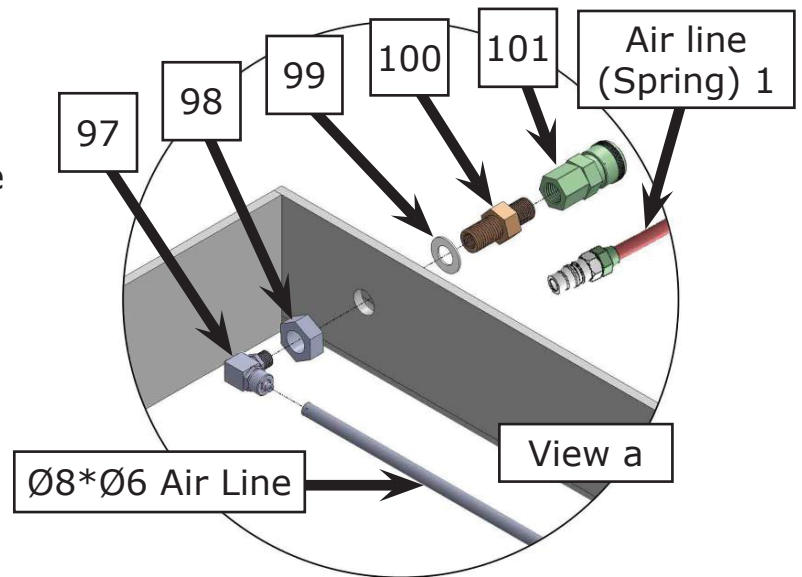


Ø8\*Ø6 Air Line



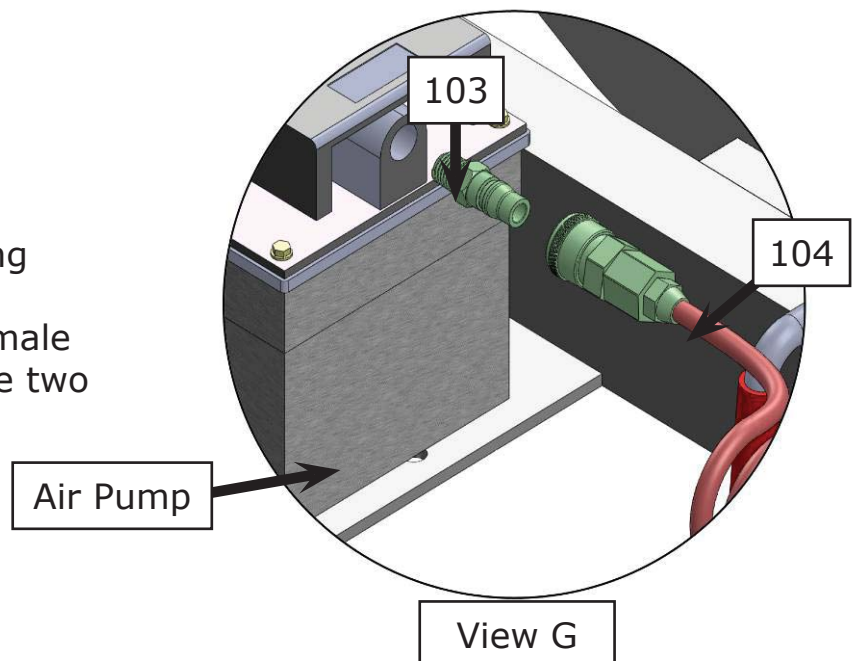
4. Divide the air into two lines by T- fitting, and connect the jack separately.

5. Install the C shape female fitting and connect it with male fitting of the spring air line 1



6. Install the C shape female fitting and connect it with the male fitting of the spring air line 2

7. Connect the female fitting of spring air line 1 and 2, separately to the quick male fitting on air pump of the two jacks.



**b. Connect the air line, and operate the jack.**

# Test Run

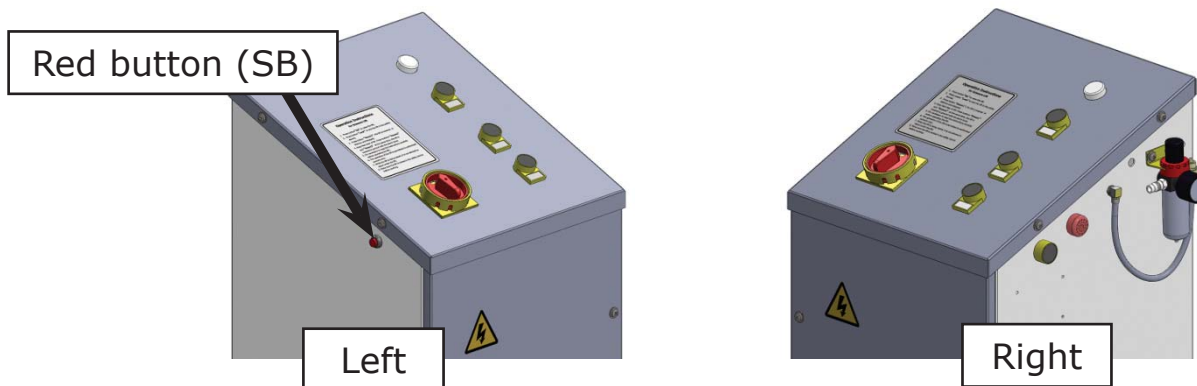
---

## 1. Fill oil adjustment

- a. Turn on the power after connecting oil system correctly. Press the **Up** button, and check the rotated direction of the motor (This is right if lift is upward, otherwise, it is wrong direction of the motor). Shut off power and exchange the phase connection if the direction is wrong.
- b. Fill the reservoir with hydraulic oil. In consideration of power unit's durability and keep the equipment running in the perfect condition, **please use Hydraulic Oil 46#**.
- c. Lower the platforms to the lowest position.

## 2. Synchronous adjustment

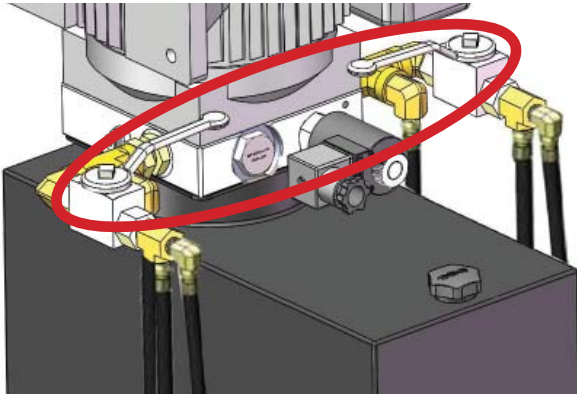
- a. Turn the handles of the shutoff valves to the position as **Fig. 36** (Normal working position), press the **UP** button until the both platforms up to the position that the high limit switch stop the lifting, at this time, press the **UP** button and the red button (**See Fig. 35**) beside the oil water separator together to raise the lift to the highest position



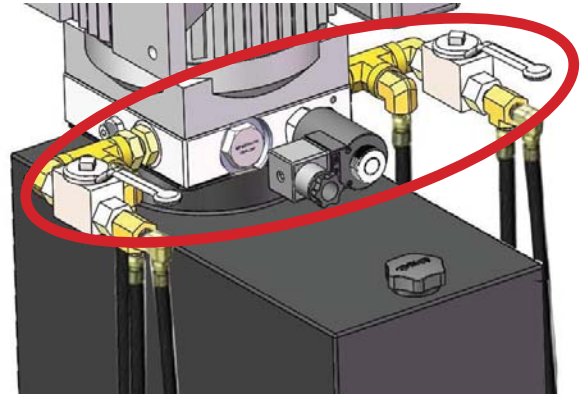
**Fig. 35**



- b. Turn the handles of the both shutoff valves to the oil filling position show as **Fig. 37**



Normal Working Position  
**Fig. 36**



Oil Filling Position  
**Fig. 37**

- c. Press the **UP** button and the Red Button beside the oil-water separator as **Fig. 35** to fill the oil into both secondly cylinders until it is full (to the highest position).
- d. Turn both handles of the shutoff valves to normal working position (**See Fig. 36**), press the button **Down**, the lift start to be lowered (If the lift can't be lowed down, turning the handle lever of one valve to oil filling position shown as **Fig. 37**, then quickly turn the handle lever to normal working position, and adjusting another valve with the same way), then the lift can be lowered. Lower the lift to the lowest position.
- e. Repeat the above procedure **a** to **d** more times, bleeding the air in the cylinder then the lift would be synchronous worked.
3. Test run

Check the height limit switch, the hose and fitting connection, and do test run. The lift must be tested run and checked carefully before in use.

# Operation Instructions

## To lift vehicle

1. Keep clear of site near the lift, and down the lift to the lowest position.
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 rising

4. Press the button **Lock**, lock the lift in the safe position. Make sure the safety is locked in the same height.

## To lower vehicle

1. Be sure clear of around and under the lift, only leaving operator in lift area.
2. Press the button Down, until the lift low down to 24" from ground. Keep feet clear off lift, push button "DOWN" while push the Lowering Alarm Button (black) at the side of control cabinet, the lift is lowered to ground with alarm tone;
3. Drive away the vehicle when the lift is lowered to the lowest position.
4. Turn off the power.

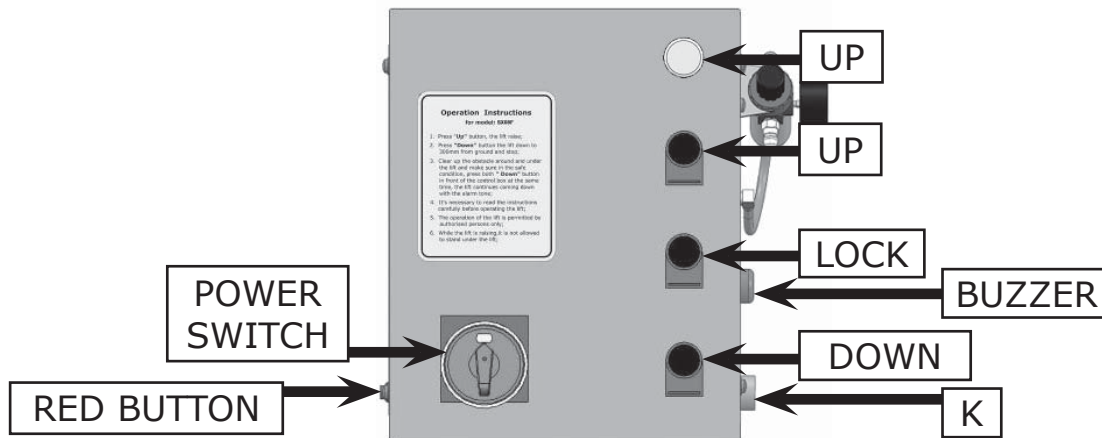


Fig. 38

# Maintenance Schedule

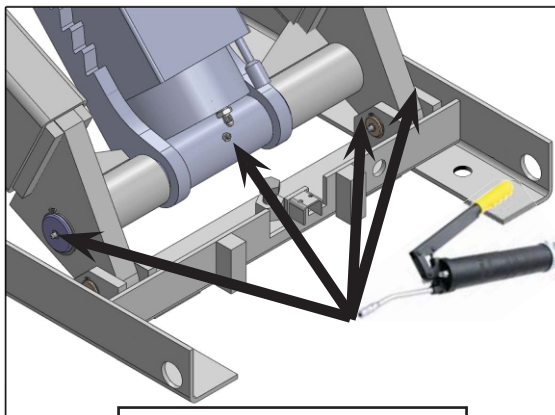
---

## Monthly:

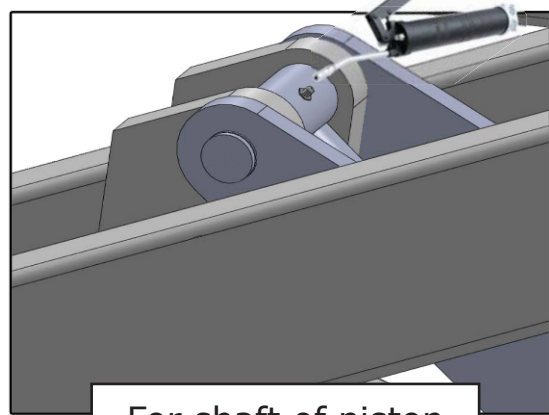
1. Re-torque the anchor bolts to 86 foot pounds.
2. Check all fittings, bolts and pins to insure proper mounting.

**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.

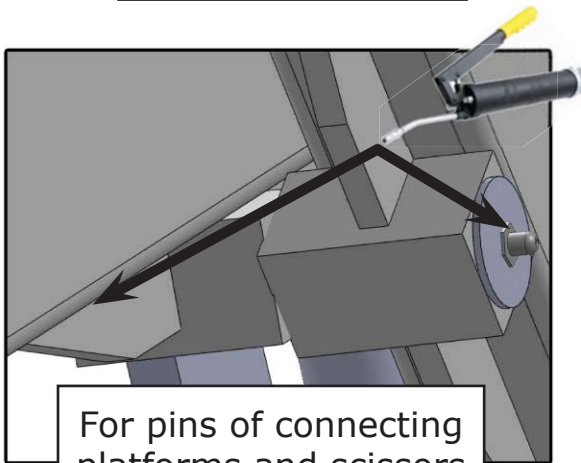
3. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage.
4. Adjusting the lifting level on both platforms.
5. Lubricate all moving parts with lubricant (**See Fig. 39-42**).



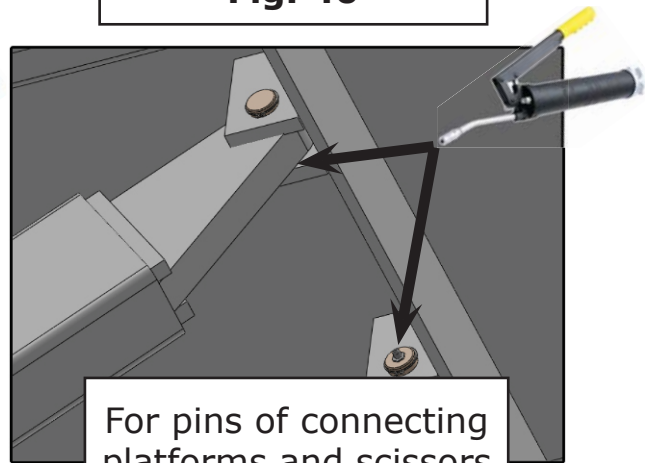
For Main Cylinder  
**Fig. 39**



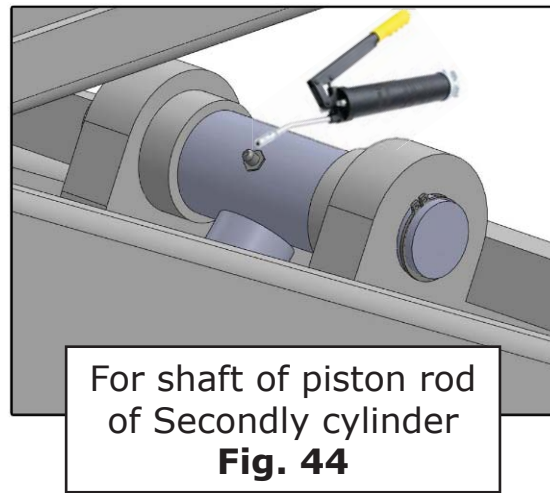
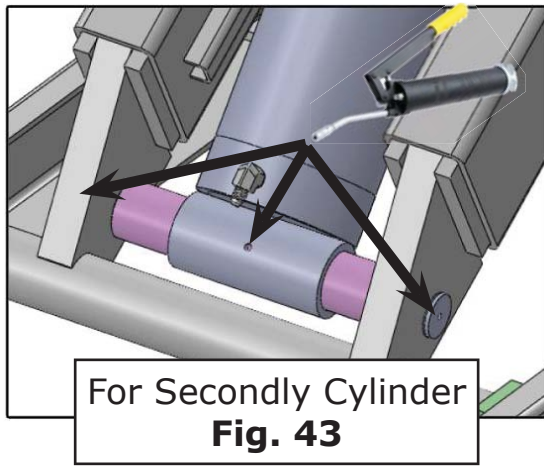
For shaft of piston  
rod of Main cylinder  
**Fig. 40**



For pins of connecting  
platforms and scissors  
**Fig. 41**



For pins of connecting  
platforms and scissors  
**Fig. 42**



**Every six months:**

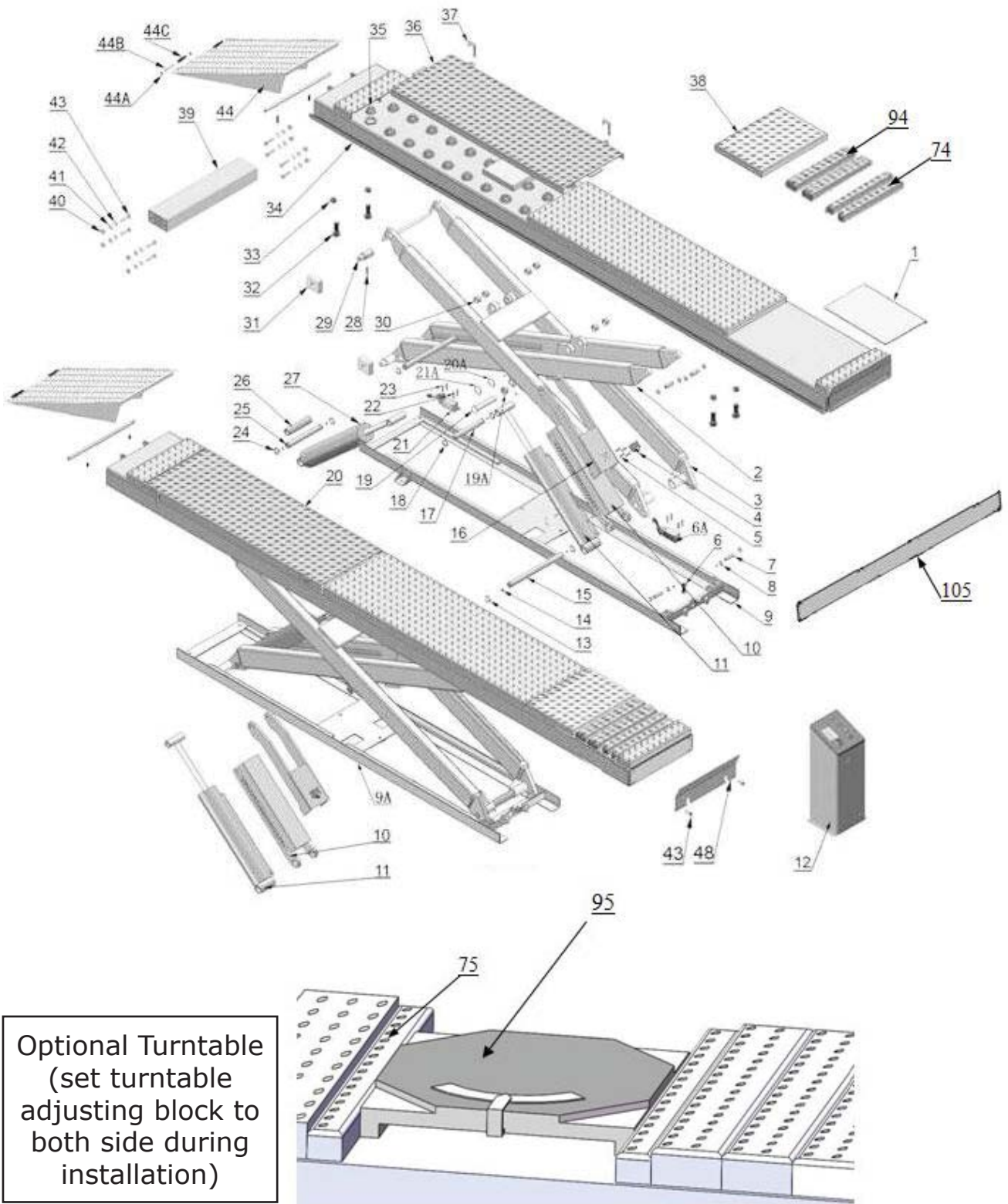
1. Make a visual inspection of all moving parts for possible wear, interference or damage.
2. Check and adjust the platform as necessary to insure level lifting.
3. Check all fastener and re-torque.

# Trouble Shooting

---

TROUBLE	CAUSE	REMEDY
Motor does not run	<ol style="list-style-type: none"> <li>1. Button does not work</li> <li>2. Wiring connections are not in good condition</li> <li>3. AC contactor burned out</li> <li>4. Motor burned out</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace button</li> <li>2. Repair all wiring connection</li> <li>3. Replace AC contactor</li> <li>4. Repair or replace motor</li> </ol>
Motor runs but the lift is not raised	<ol style="list-style-type: none"> <li>1. Motor runs in reverse rotation</li> <li>2. Low oil level</li> <li>3. The Gear Pump out of operation</li> <li>4. Relief valve or check valve in damage</li> <li>5. Hydraulic Solenoid valve out of operation</li> </ol>	<ol style="list-style-type: none"> <li>1. Reverse two power wire</li> <li>2. Fill tank</li> <li>3. Repair or replace</li> <li>4. Repair or replace</li> <li>5. Repair or Replace</li> </ol>
Lift does not stay up	<ol style="list-style-type: none"> <li>1. Hydraulic Solenoid valve out of operation</li> <li>2. Relief valve or check valve leakage</li> <li>3. Cylinder or fittings leaks</li> </ol>	Repair or replace
Lift raised slowly	<ol style="list-style-type: none"> <li>1. Oil line is jammed</li> <li>2. Gear Pump leaks</li> <li>3. Overload lifting</li> <li>4. Power Voltage low</li> <li>5. Oil mixed with air</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean the oil line</li> <li>2. Repair or Replace</li> <li>3. Check load</li> <li>4. Check electrical system</li> <li>5. Fill tank and bleeding air</li> </ol>
Lift can not lower	<ol style="list-style-type: none"> <li>1. Hydraulic Solenoid valve out of operation</li> <li>2. Air Solenoid Valve out of operation</li> <li>3. Air cylinder in damage</li> <li>4. Low Air pressure</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair or replace the Valve</li> <li>2. Repair or replace the Valve</li> <li>3. Repair or replace</li> <li>4. Check the air line</li> </ol>

# Exploded View

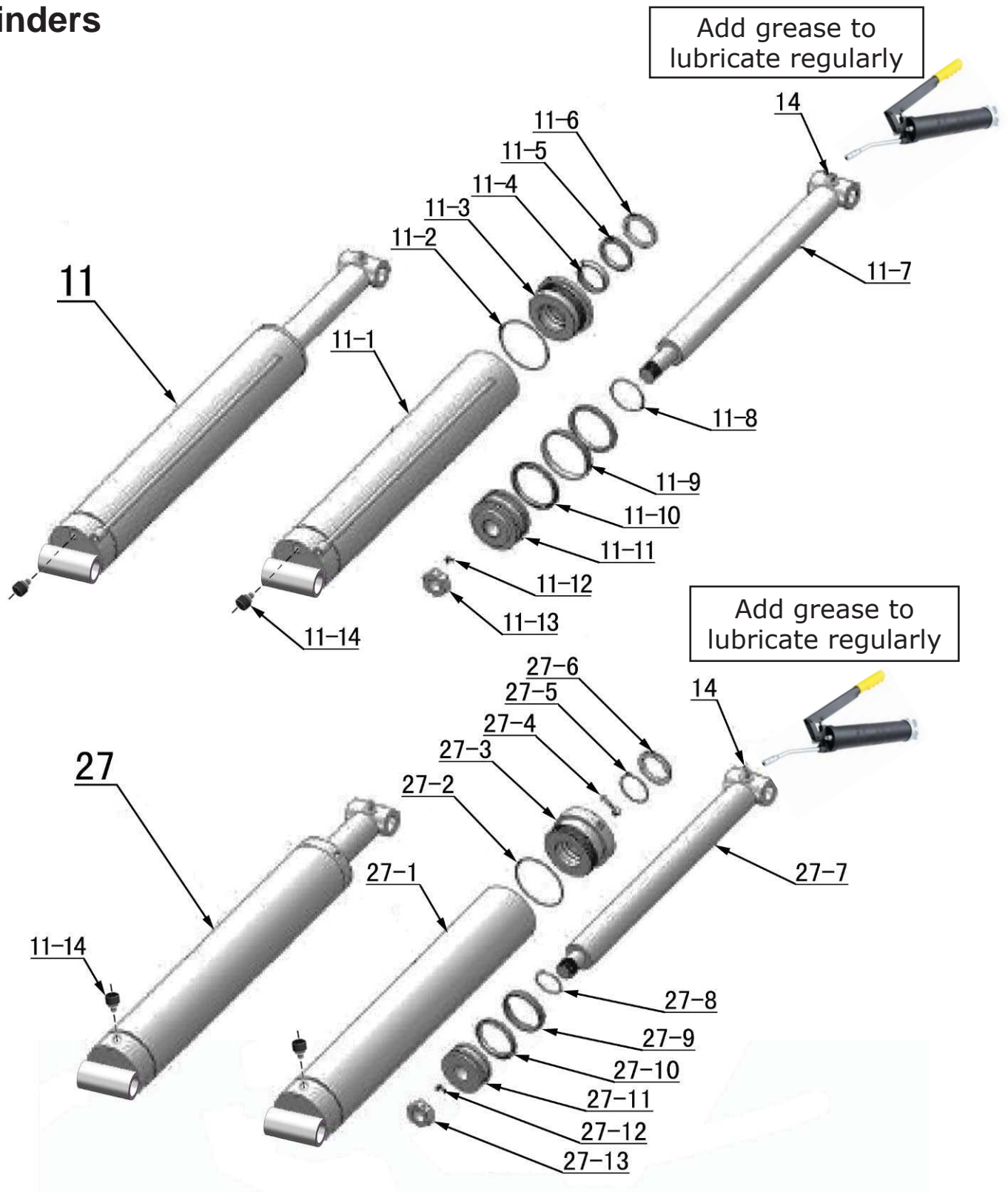


Optional Turntable  
(set turntable  
adjusting block to  
both side during  
installation)

**Fig. 31**



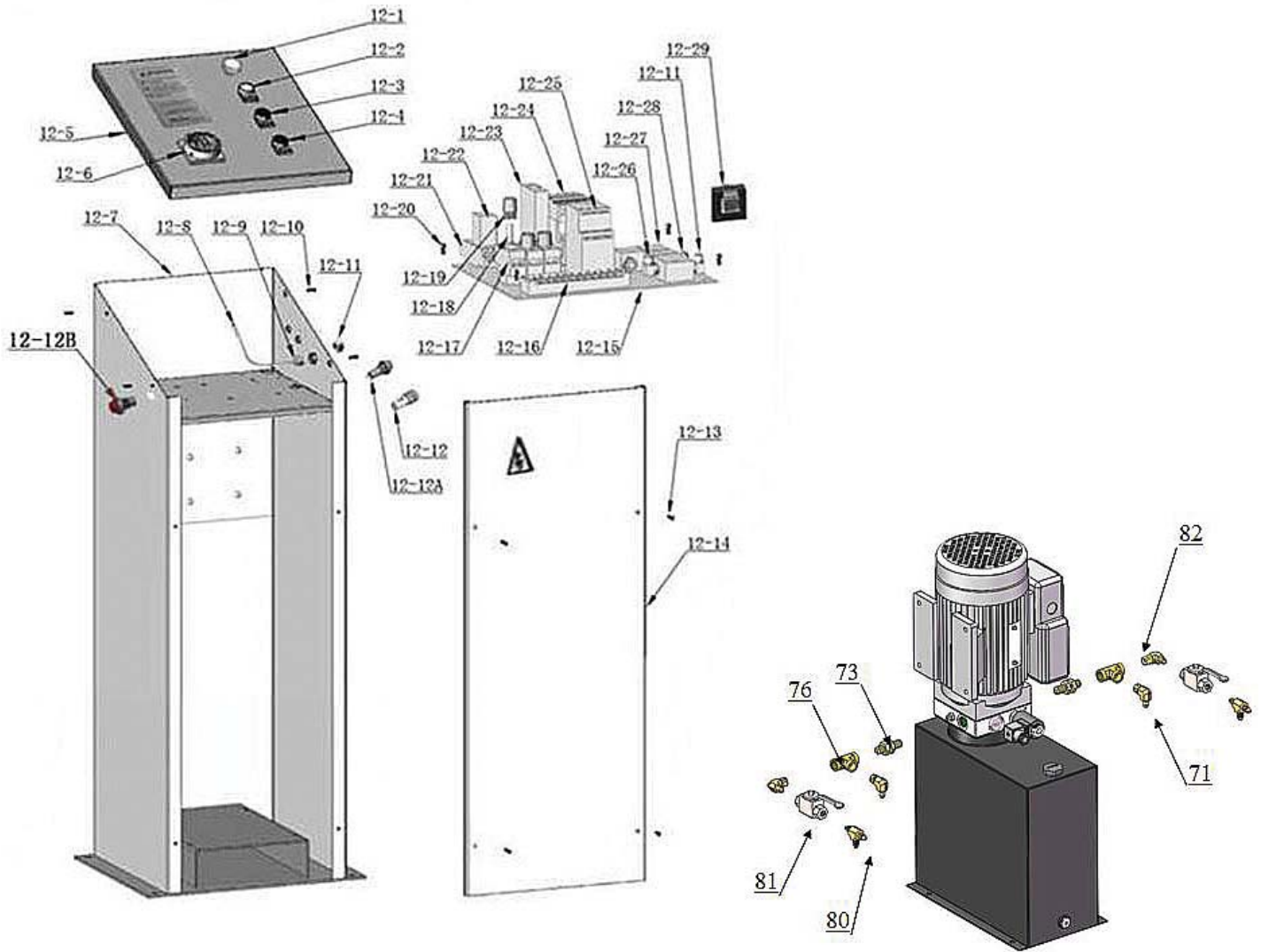
# Cylinders



**Fig. 32**



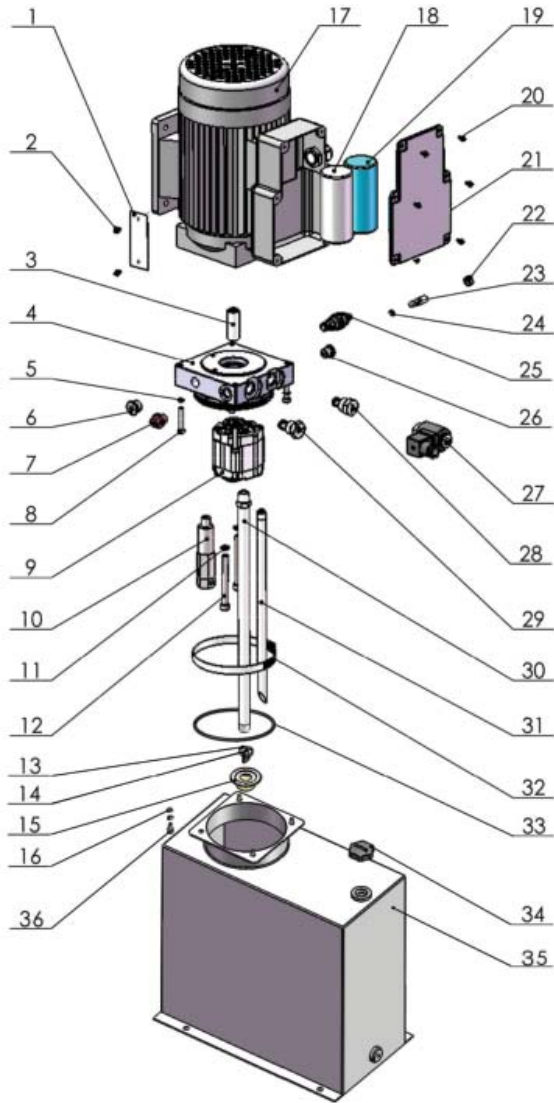
# Control Cabinet



**Fig. 33**

# Atlas Electric Power Unit

220V/50HZ/1Phase



380V/50HZ/3 Phase

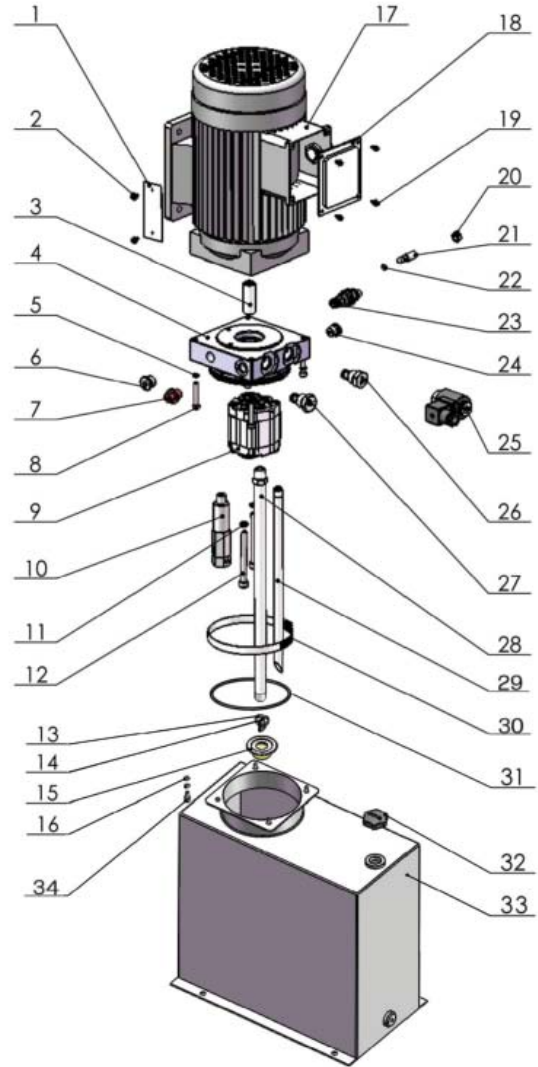


Fig. 34

# PX-16A Parts List

---

Item	Part#	Description	QTY
1	520003	Shelf	2
2	530002A	Inner Scissors	2
3	530003A	Outer Scissors	2
4	520011	Air Cylinder	2
5	420153	Cup Head Bolt	8
6	510012	Hex Bolt	4
6A	510040	Limit switch assy.	1
7	520013A	Connecting Pin	8
8	206032	Snap Ring	16
9	520015C	Base frame	1
9A	520015D	Base frame	1
10	520038B	Main Safety Lock Tube	2
11	520028B	Main Cylinder	2
12	520102B	Control Cabinet	1
13	520020	Snap Ring	4
14	620064	Grease Fitting	32
15	520018A	Connecting Shaft For Main Cylinder	2
16	520021A	Safety Lock	2
17	610005A	Connecting pin for Main Cylinder	4
18	610098	Snap Ring	8
19	520024A	Connecting Pin For Scissors	4
19A	610019	Self locking nut	4
20	570002	Offside Platform	1
20A	610108	Washer	4
21	510041	Limit Switch Assy.	1
21A	530023	Washer	4
22	620109	Cup Head Bolt	4
23	420164	Cup Head Bolt	4

<b>Item</b>	<b>Part#</b>	<b>Description</b>	<b>QTY</b>
24	520023	Snap Ring	4
25	560026A	Connecting Shaft For Secondly Cylinder	2
26	560027	Piston Connecting Tube	2
27	520017B	Secondly Cylinder	2
28	520108	Socket Set Screw	4
29	520032A	Pin For Pulley	4
30	530042	Bronze Bush (F41.3*F35.1*28)	8
31	510012	Slider	8
32	510028	Hex Bolt(M20*110)	8
33	420175A	Hex Nut M20	8
34	570001	Powerside Platform	1
35	420157	Steel Ball	64
36	570003	Side Slip Plate	2
37	520037	Pin for Rear Slip Plate	4
38	560003	Plate for Adjustable Turnplate	4
39	570004	Runway Connecting Bar	1
40	206023B	Hex Nut	8
41	420026	Lock Washer	8
42	206006	Washer	8
43	420136	Hex Bolt	12
44	520005A	Drive-in Ramp (On surface/Flush mount)	2/0
44A	206010	Snap ring	8
44B	620043	Roller Pin	4
44C	620063	Up Sweep Roller	4
44D	510039	Cup head bolt	3
45	510006	Pin For Drive-in Ramp	2
46	201005	Split Pin	4
47	510018	Guild Ramp (On surface/Flush mount)	0/2
48	520004A	Tire Stop Plate	2
49	209059	Anchor Bolt	14
50	620071	Anchor Bolt	4
51	420047	Quick Fitting for Air Cylinder	2

<b>Item</b>	<b>Part#</b>	<b>Description</b>	<b>QTY</b>
52	520065	Spring Air Line	2
53	570015	Air Line (Black)	1
54	420124	T-fitting	1
55	520069	90° Quick fitting for air line	1
56	620079	T-Fitting	6
57	203119	Oil Hose No. 1	1
58	540020	Oil Hose No. 2	1
59	540019	Oil Hose No. 3	1
60	570022	Oil Hose No. 6	1
61	570023	Oil Hose No. 5	1
62	570024	Oil Hose No. 4	1
63	510023	Straight Fitting	2
64	520101	Protective Plastic Hose	2
65	540030	Oil Hose	4
66	420119	Straight Fitting	2
66A	540021	Oil Hose	2
67	420076	90° Fitting For Air Line	1
68	420145	Oil-water Separator	1
69	420146	Straight Fitting for air line	1
70	680005	Cup Head Bolt	4
71	420097	90° Fitting	4
71A	510024	Fitting	2
72	550003	Power unit	1
73	440009	Straight Fitting for power unit	2
74	206062	Straight Fitting	2
75	630103	Straight Fitting	2
76	61K107	T- Fitting	2
77	61K050	Hex Bolt	4
78	209033	Washer	8
79	209005	Self locking Nut	4
80	209062	T-Fitting	2
81	61K101	Shut off Valve	2

<b>Item</b>	<b>Part#</b>	<b>Description</b>	<b>QTY</b>
82	680072	90° Fitting	2
83	420018	Self locking Nut	2
84	540024	Oil horse Cover	2
85	540028	Oil Hose Cover	1
86	540027	Oil Hose Cover	2
86A	540025	Oil Hose Cover	1
87	540029	Oil Hose Cover	1
88	620065	Shim	20
88A	201090	Shim	20
89	620070	Colloidal	36
90	620069	Wood Screw	36
91	570500	Parts box(On surface installation)	1
92	570501	Parts box(On surface installation)	1
93	420158	Turnplate (optional)	4
94	520116	Turnplate adjusting block(no.2)	4
95	420213	T-fitting	1
96	540007	T quick fitting	1
97	61K094	90° Fitting	2
98	61K092	Hexagon nut	2
99	430010	Washer	2
100	61K091	Air line fitting	2
101	61K090	C type quick female fitting	2
102	540009	Air hose	1
103	420146	Quick male fitting	2
104	520065A	Elastic air hose	2
105	570027	Platform connecting accessory	1

## Parts For Main Cylinder

Item	Part#	Description	QTY
11-1	510008B	Main Cylinder	1
11-2	520053	O- Ring	1
11-3	520043	Head Cap (Main)	1
11-4	520052	Support Ring	1
11-5	520051	Y- Ring	1
11-6	520050	Dust Ring	1
11-7	510009B	Piston Rod (Main)	1
11-8	520054	O- Ring	1
11-9	520056	Support Ring	1
11-10	520055	Y- Ring	2
11-11	520045	Piston (Main)	1
11-12	520049	Set Screw	1
11-13	520047	Hex Nut	1
11-14	530009	Burst valve	4

## Parts For Secondly Cylinder

Item	Part#	Description	QTY
27-1	510010B	Secondly Cylinder	1
27-2	520060	O- Ring	1
27-3	520044	Head Cap (Secondly)	1
27-4	201034	Bleeding Plug	2
27-5	520058	O- Ring	1
27-6	217078	Dust Ring	1
27-7	510011B	Piston Rod (Secondly)	1
27-8	520061	O- Ring	1
27-9	520062	Support Ring	1
27-10	520063	Y- Ring	1
27-11	520046	Piston (Secondly)	1
27-12	520049	Set Screw	1
27-13	520048	Hex Nut	1



## Parts For Control Cabinet

Item	Part#	Description	QTY
12-1	201094	Power Indicator	1
12-2	420071	UP Button	1
12-3	420071	Lock Button	1
12-4	420072	Down Button	1
12-5	52K001C	Control Panel	1
12-6	420074	Power Switch (QS)	1
12-7	52K007D	Cabinet Body	1
12-8	420167C	Air line	2
12-9	61K110	Straight Fitting	1
12-10	209145	Cup Head Bolt	4
12-11	420076	90° Fitting	2
12-12	420142	Down Alarm Button K	1
12-12A	420143	Buzzer	1
12-12B	650017	Red Button(SB)	1
12-13	52K056	Cup Head Bolt	4
12-14	52K022	Cabinet Door	1
12-15	52K006A	Install panel	1
12-16	620082	Terminal	1
12-17	420087	Fuse base	3
12-18	420086	Fuse(FU)	3
12-19	420085	Fuse Cap	3
12-20	61K052	Cup head bolt	19
12-21	420135	Timer Relay Base	2
12-22	420141	Intermediate Relay(KA)	1
12-23	420083	Timer Relay(KT)	1
12-24	420084A	AC Contactor (KM)	1
12-25	440034	Thermal Relay(FR)	1
12-26	420166	90° Fitting	1
12-27	420077	Air Solenoid Valve(Y2)	1
12-28	201034	Bleeding plug	1
12-29	420134	Transformer (TC)	1
12-30	540008	Protective Ring	2

## Parts For Atlas Electric Power Unit 220V/50HZ/1 Phase

Item	Part#	Description	QTY
1	71150013	Amgo label	1
2	81400300	Cross screw	2
3	81400363	Motor connecting shaft	1
4	81400369	Manifold block	1
5	10209149	Release Valve Adjusting Rod	1
6	81400276	Inner hex iron plug	1
7	81400195	Red plastic plug	1
8	85090142	Hex nut	4
9	81400292	Gear pump	1
10	81400294	Buffer valve	1
11	10209034	Elastic Washer	2
12	81400295	Hex nut	2
13	10209152	Belt	1
14	85090167	Magnet	1
15	81400290	Filter net	1
16	81400217	Washer	4
17	81400308	Aluminum alloy motor	1
18	81400088	Running capacitance	1
19	81400130	Starting capacitance	1
20	420148	Hex nut with washer	4
21	81400208	Motor wiring cover	1
22	81400296	Nut	1
23	81400459	Throttle valve core	1
24	10209069	O ring	1
25	81400266	Relief valve	1
26	81400284	Inner hex iron plug	1
27	81400420	Solenoid valve coil	1
28	81400423	Electric release valve	1
29	81400267	Checking valve	1
30	81400380	Oil suction hose	1
31	81400376	Oil return hose	1

<b>Item</b>	<b>Part#</b>	<b>Description</b>	<b>QTY</b>
32	81400364	Hose hoops (stainless steel)	1
33	81400365	O ring	1
34	81400263	Oil tank cover	1
35	81400327	Oil tank	1
36	81400438	Outer hex screw	4

## Parts For Atlas Electric Power Unit 380V/50HZ/3 Phase

<b>Item</b>	<b>Part#</b>	<b>Description</b>	<b>QTY</b>
1	71150013	Amgo label	1
2	81400300	Cross screw	2
3	81400363	Motor connecting shaft	1
4	81400369	Manifold block	1
5	10209149	Elastic washer	4
6	81400276	Inner hex iron plug	1
7	81400195	Red plastic plug	1
8	85090142	Hex nut	4
9	81400292	Gear pump	1
10	81400294	Buffer valve	1
11	10209034	Elastic Washer	2
12	81400295	Hex nut	2
13	10209152	Belt	1
14	85090167	Magnet	1
15	81400290	Filter net	1
16	81400217	Washer	4
17	81400308	Aluminum alloy motor	1
18	81400209	Motor wiring cover	1
19	680005	Hex nut with washer	4
20	81400296	nut	4
21	81400459	Relief valve core	1
22	10209069	O ring	1
23	81400266	Throttle valve	1

<b>Item</b>	<b>Part#</b>	<b>Description</b>	<b>QTY</b>
24	81400284	Inner hex iron plug	1
25	81400420	Solenoid valve coil	1
26	81400423	Electric release valve	1
27	81400267	Check valve	1
28	81400381	Oil suction hose	1
29	81400379	Oil return hose	1
30	81400367	Hose hoops(stainless steel)	1
31	81400365	O ring	1
32	81400263	Oil tank cover	1
33	81400327	Oil tank	1
34	81400438	Out hex screw	4

# Warranty

---



**This item** is warranted for two (2) years on structural components and one (1) year on air or electric hydraulic power units, pneumatic power units, cylinders and major components from date of invoice. 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.