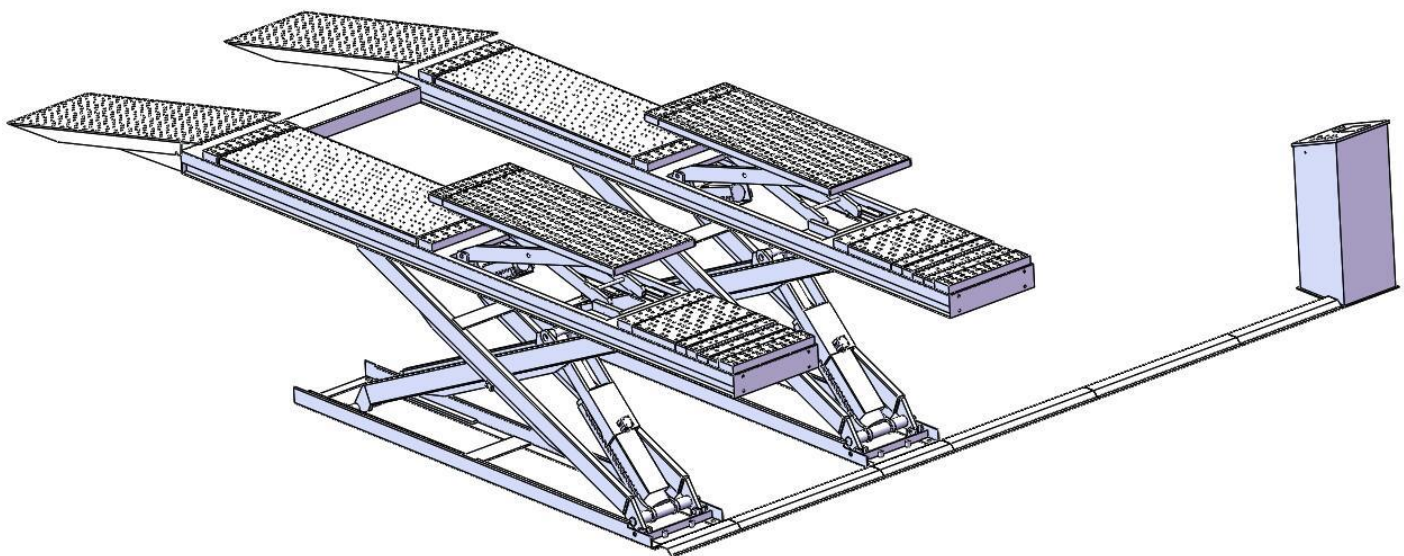




Installation And Service Manual



SCISSORS LIFT

Model: **DX-12A**

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I. PRODUCT FEATRUES AND SPECIFICATIONS

Double Scissors Lift

Model DX-12A

- Electric- air control system, mechanical safety locks
- Dual synchronous cylinders are applied to assure the lifting level on both platforms
- Photo cell device protection, avoid vehicle to roll over
- Non-skid diamond platforms.
- Double scissors structure, fit for a wide range vehicle of car to van and light truck
- Optional Turnplate.

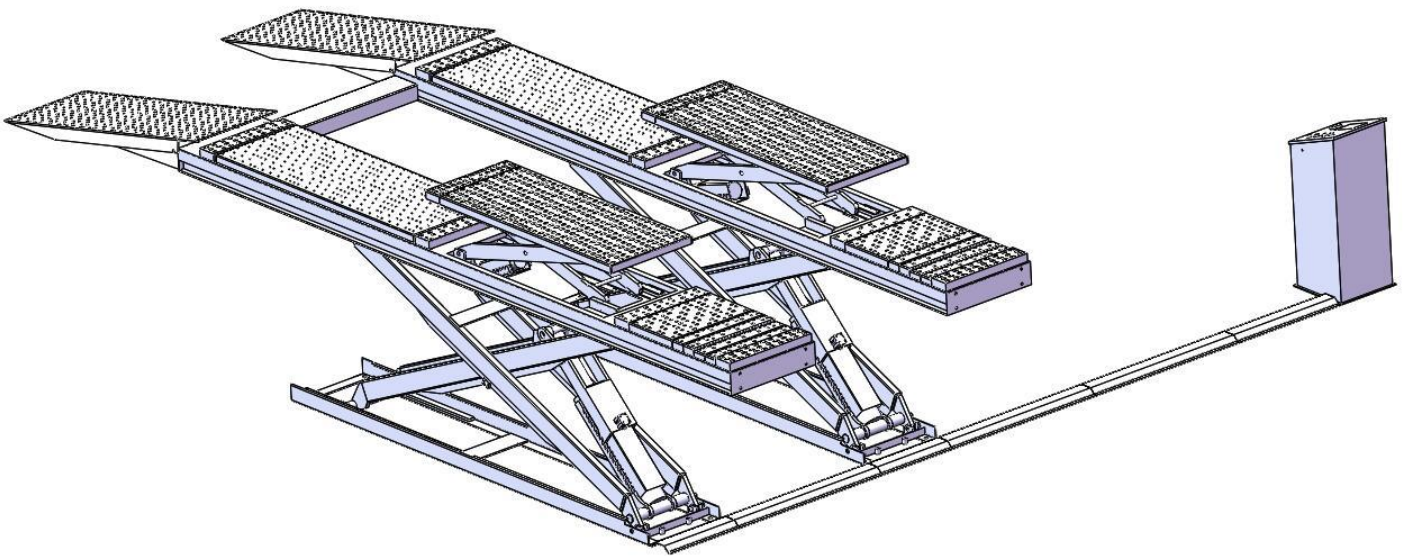


Fig. 1

Model DX-12A SPECIFICATIONS

Model	Lifting Capacity	Lifting Height	Min. Height	Lifting Time	Overall Length (Inc. Ramps)	Overall Width	Runway Width	Distance Between Platform	Gross Weight	Motor
DX-12A	12000 lbs	73-5/8"	11-1/4"	64S	257"	86-1/4"	24-5/8"	37"	5291lbs	2.0HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

- ✓ Rotary Hammer Drill (3/4", 3/8", 1/8")



- ✓ Hammer



- ✓ Level Bar



- ✓ English Spanner (12")



- ✓ Ratchet Spanner With Socket (28#)



- ✓ Wrench Set (8#, 14#, 15#, 17#, 19#)



- ✓ Carpenter's Chalk



- ✓ Screw Sets



- ✓ Tape Measure (300")



- ✓ Pliers



- ✓ Lock Wrench



- ✓ Grease gun



Fig. 2

B. SPECIFICATIONS OF CONCRETE

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

C. POWER SUPPLY

The electrical source must be 4.0Kw minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. STEPS OF INSTALLATION

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 Installation dimension for DX-12A (See Fig. 3).

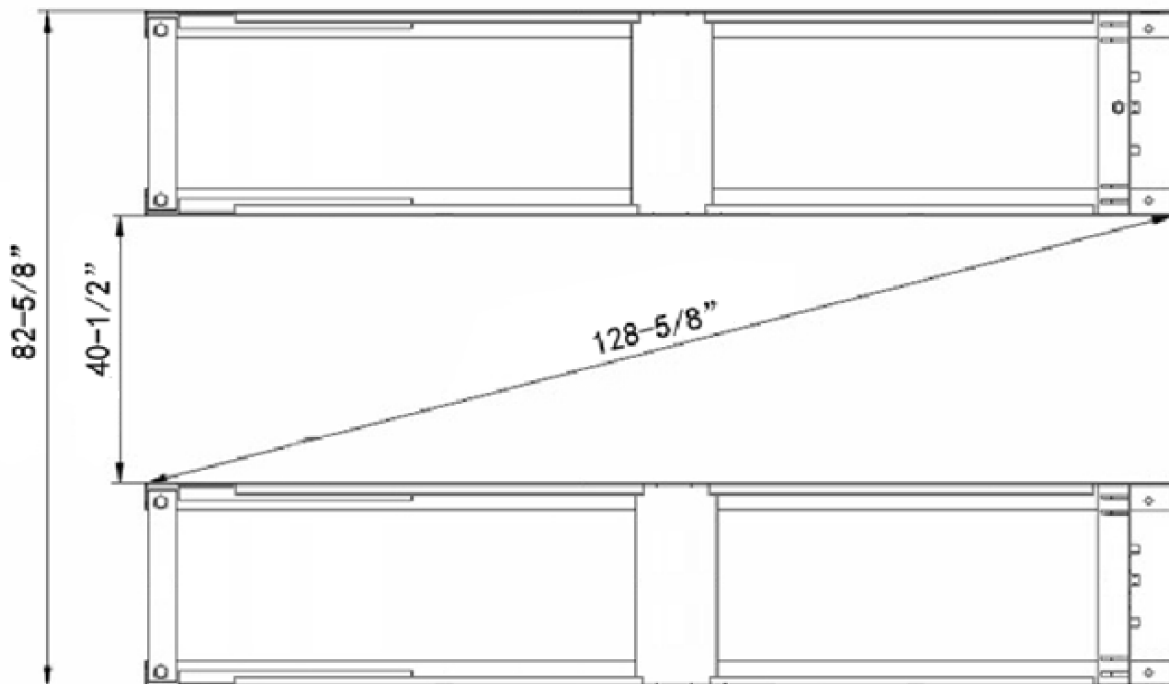


Fig. 3

1.2 Illustration of DX-12A on surface installation (See Fig.4).

Noted:
Control cabinet can be installed at the left side or the right side of drive in direction. Below figure show the control cabinet installed at the left side of drive in direction

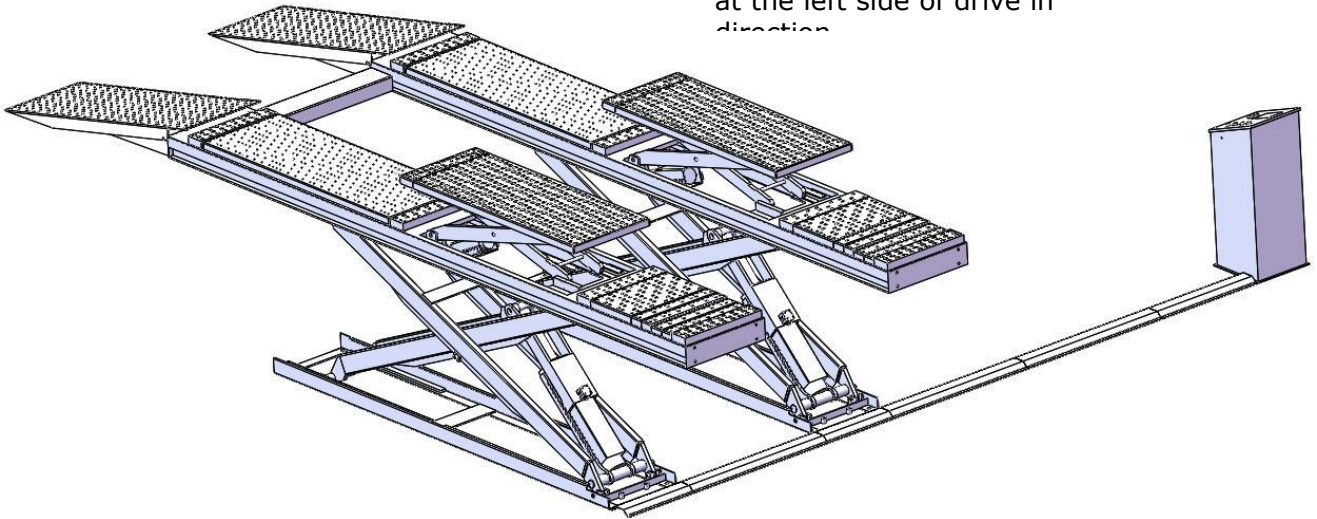


Fig. 4

2. For Optional Installation: Flush mount installation

2.1 Flush Mount Installation Foundation (Fig.5).

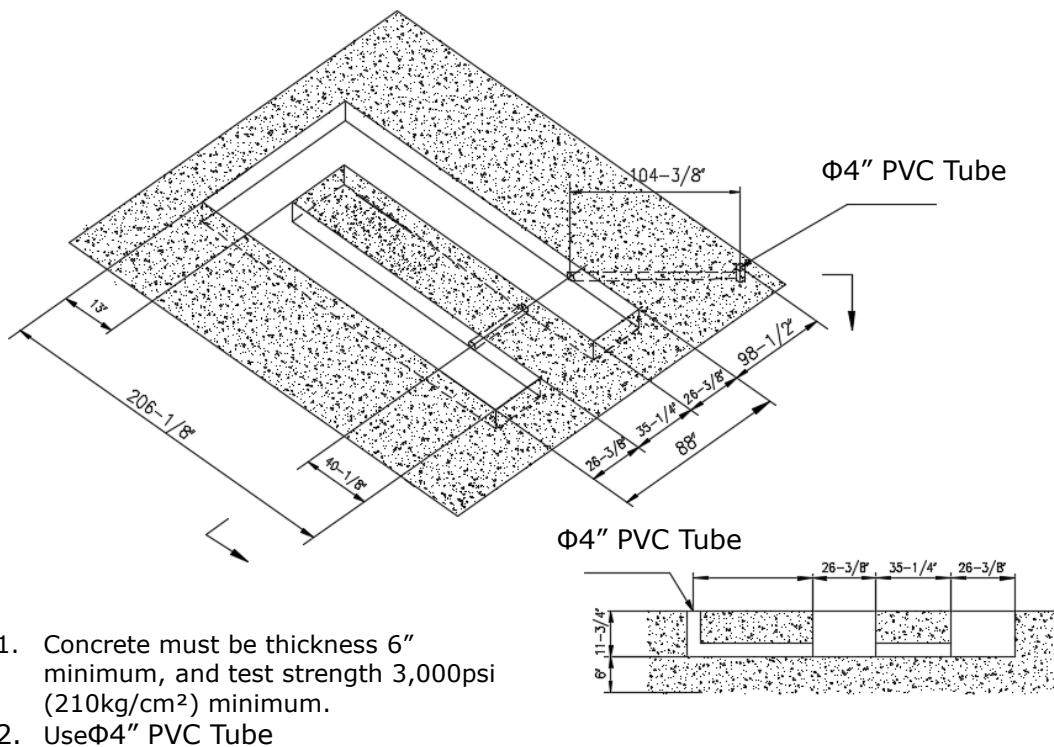


Fig. 5

2.2 Illustration of DX-12A flush mount installation (**Fig.6**).

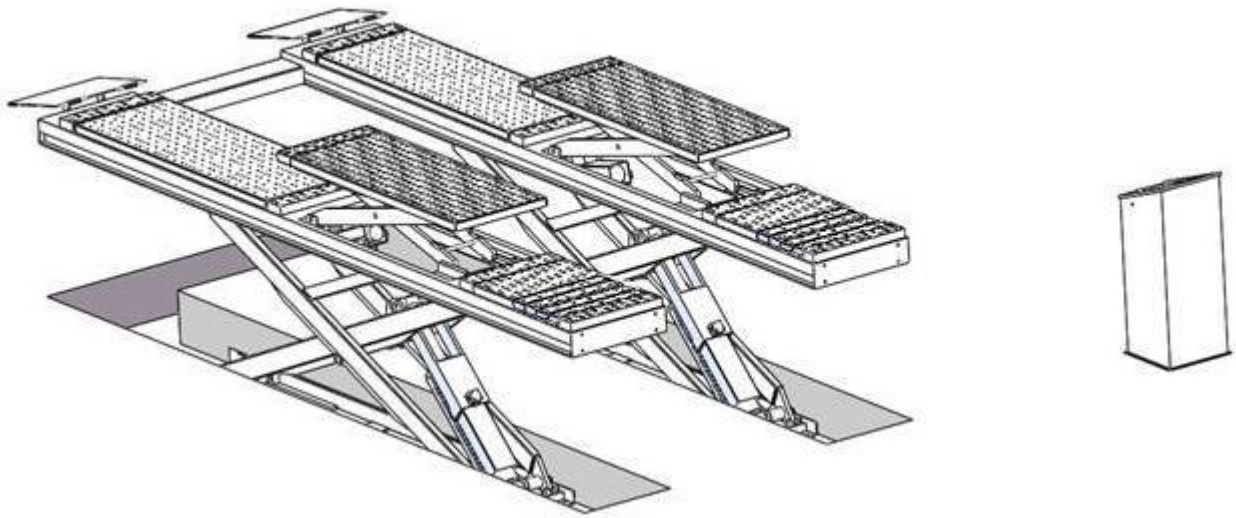


Fig. 6

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 lift of on surface installation (**See Fig.8**)

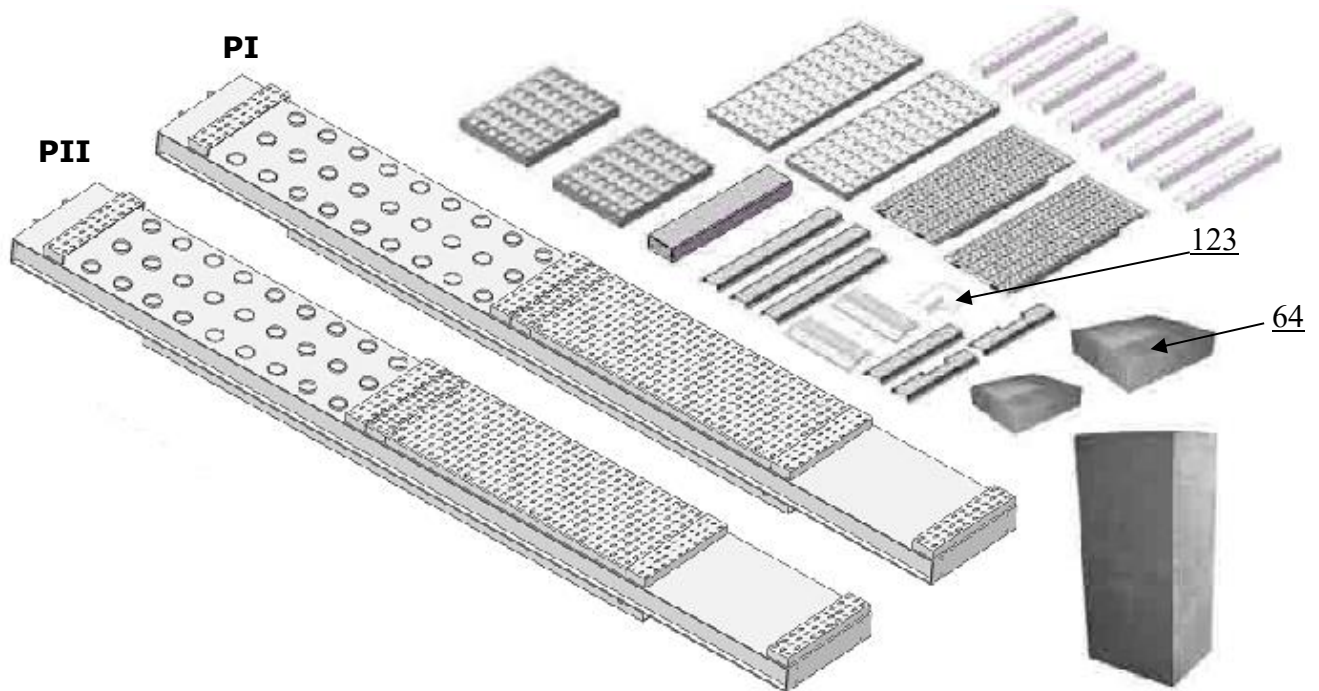


Fig. 8

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

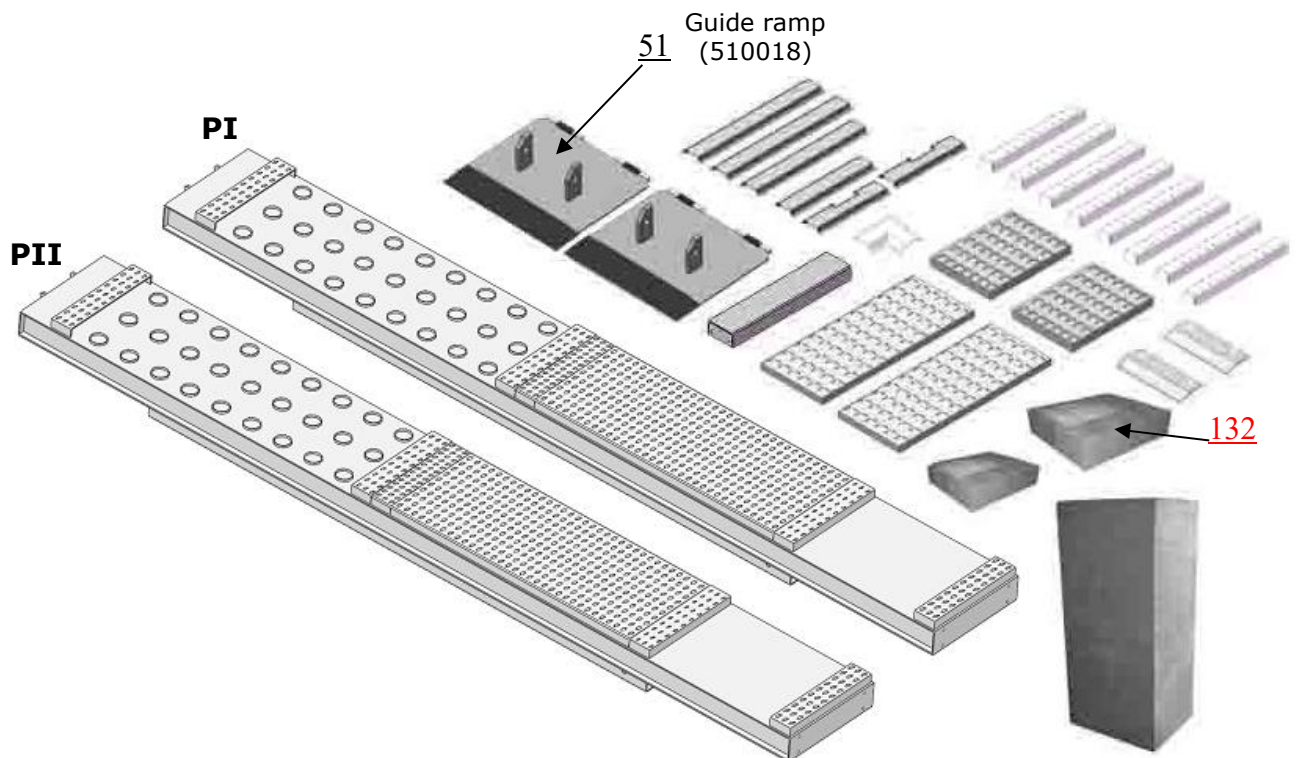


Fig. 9

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 lift of on surface installation (**See Fig.11**)



Fig. 11

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



Fig. 12

C. Layout and installation of oil system and air line system.

1. Select a location and lay out the lift according to steps **A** (See Fig. 13).

Noted: The control cabinet can be installed on the left or right of the model according to the site.

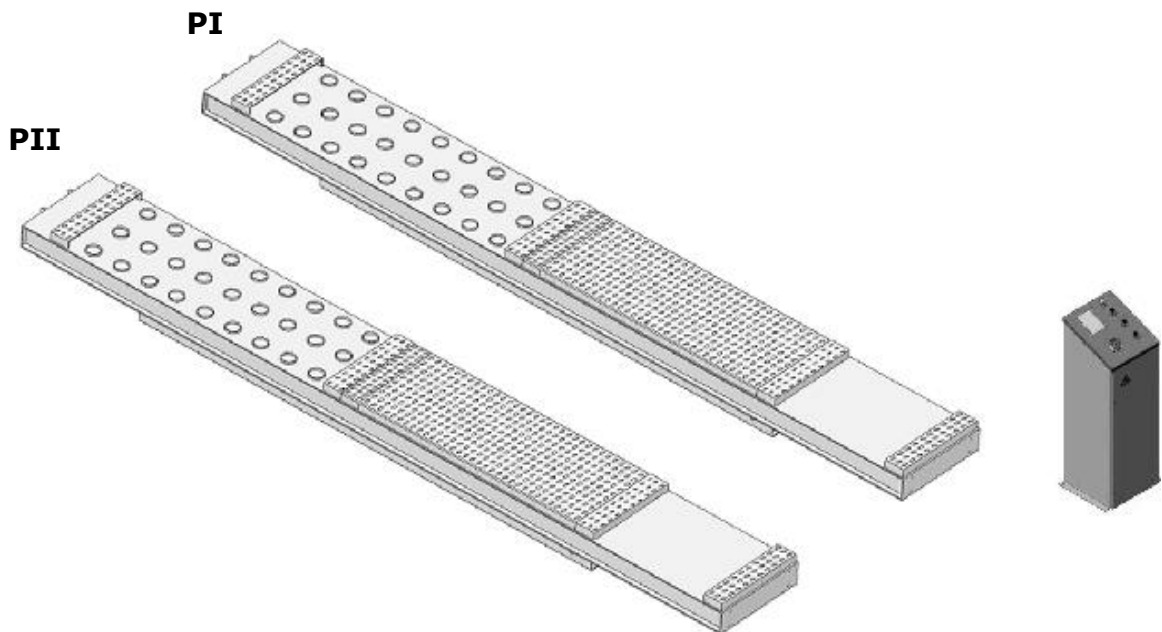
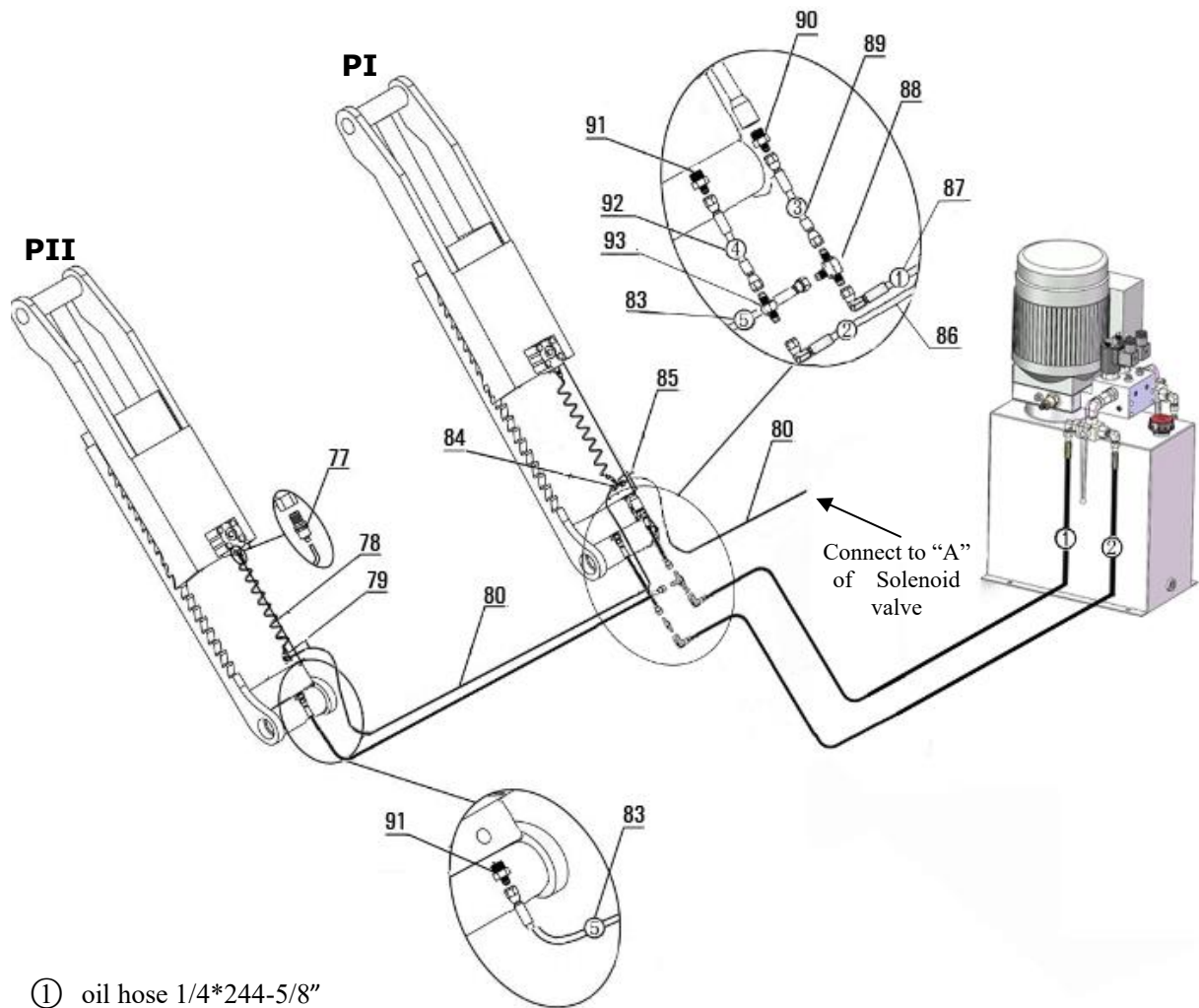


Fig. 13

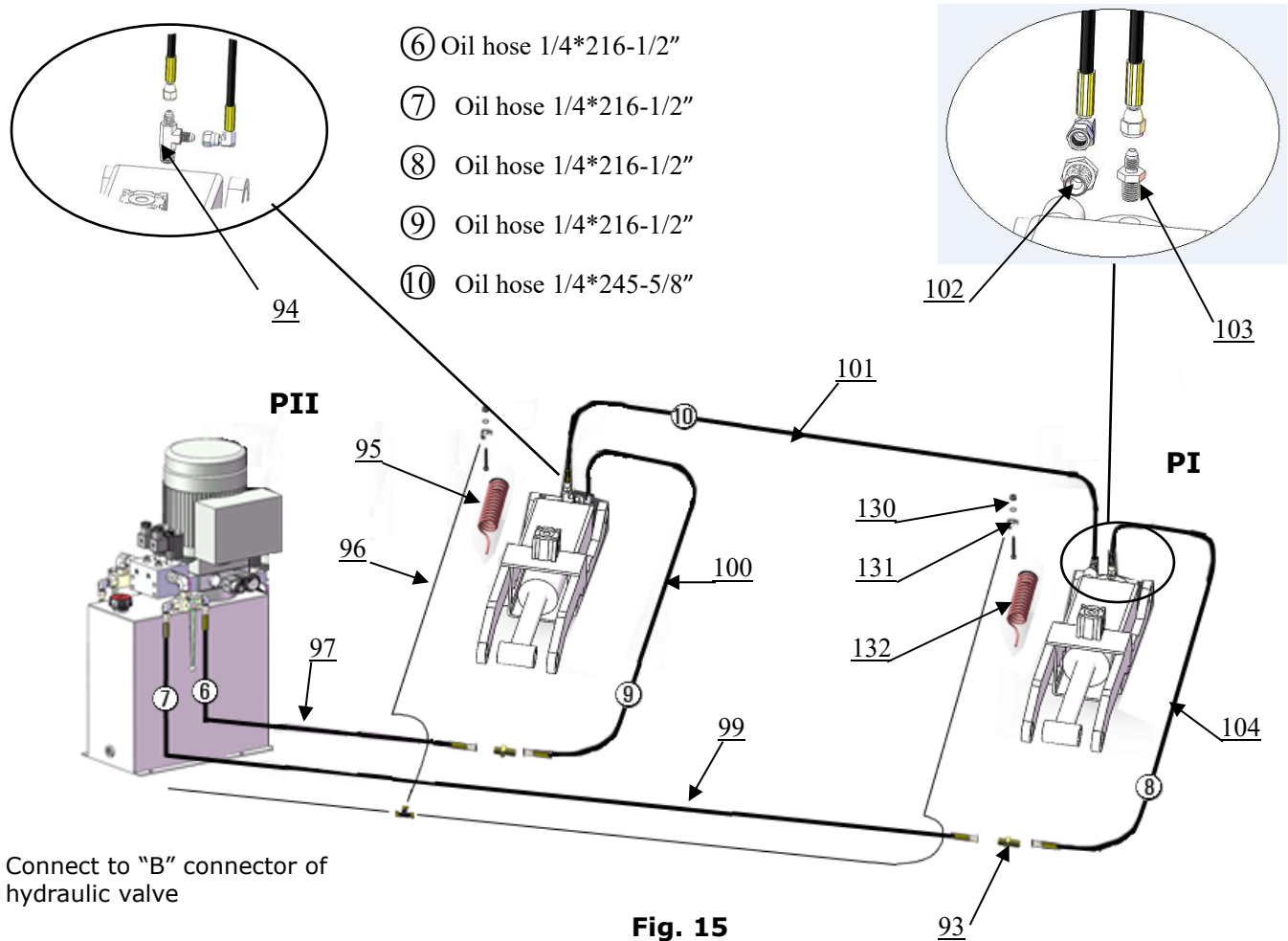
2. Connecting the cylinders' oil hose and air line of the main scissors. **(See Fig. 14)**



- ① oil hose 1/4*244-5/8"
- ② oil hose 1/4*241-1/2 "
- ③ oil hose 1/4*11-1/8"
- ④ oil hose 1/4*11-1/8"
- ⑤ oil hose 1/4*73-5/8"

Fig. 14

3. Connect the cylinders' oil hose and air line of the secondly scissors. **(See Fig. 15)**



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

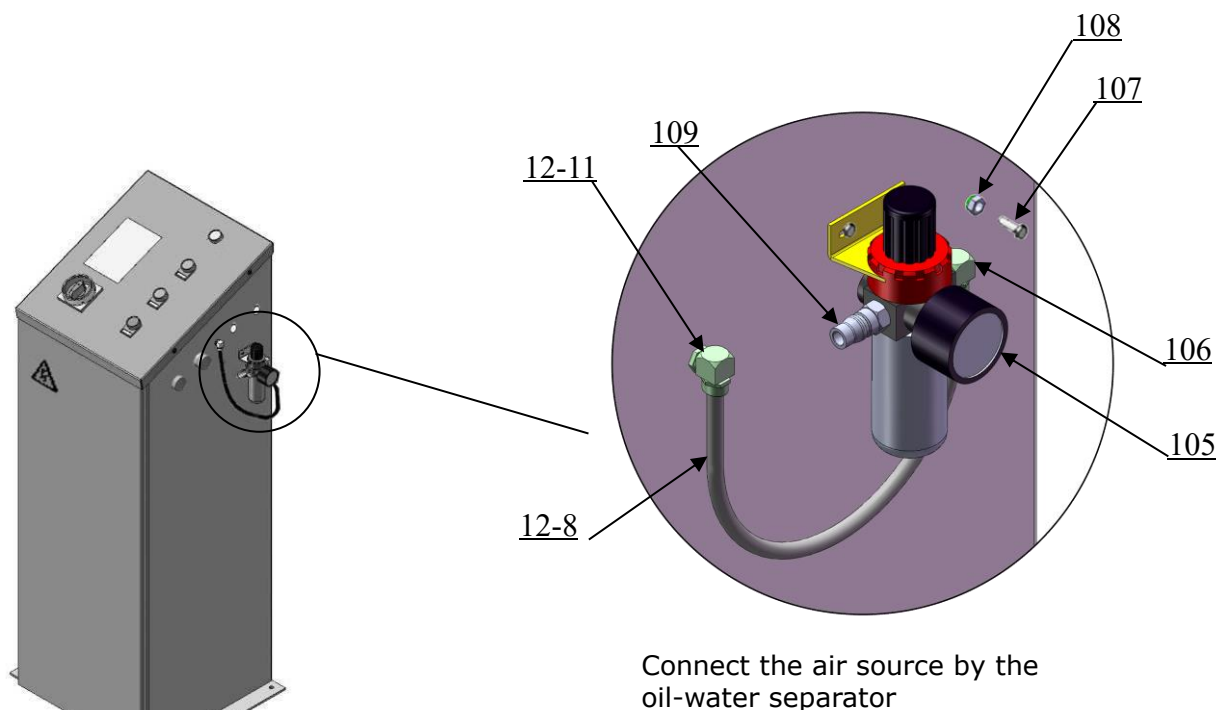


Fig. 16

5. Install a hook for wire and wrap the wire. **(See Fig.17 & 18).**

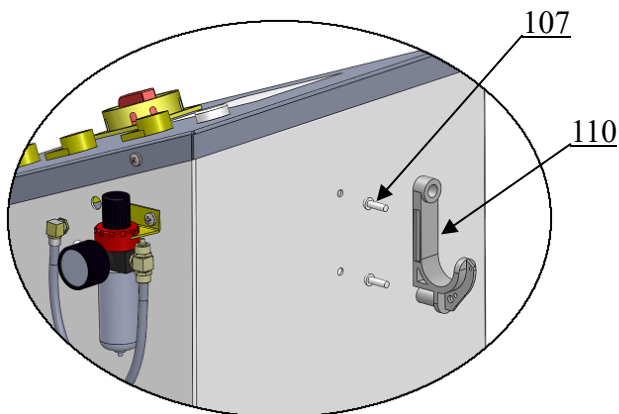


Fig. 17

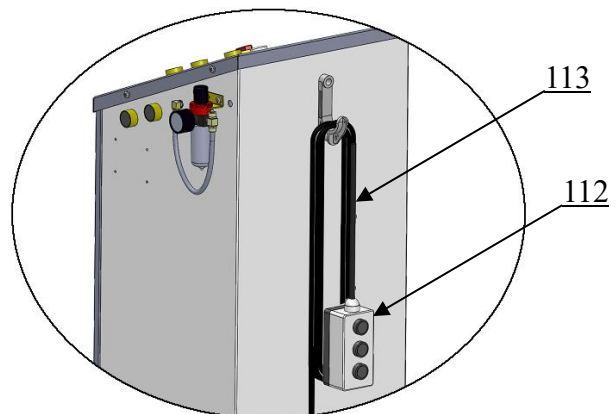


Fig. 18

6. Connecting the air source , adjust the air pressure to 0.4- 0.6MPa **(See Fig. 19).**



Clockwise to increase the air pressure
Counter-clockwise to reduce the air pressure
Adjust the air pressure to 0.4~0.6MPa

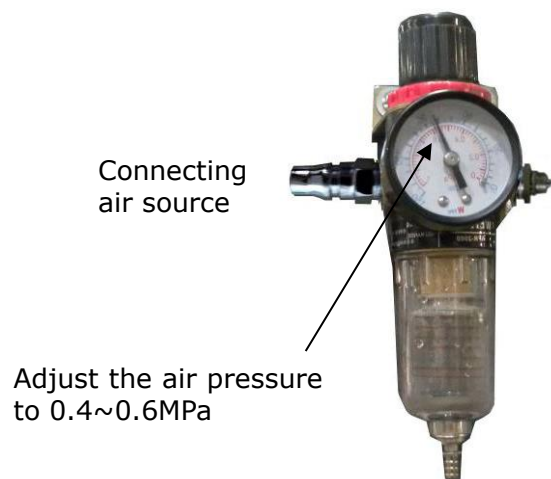


Fig. 19

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	2.0HP/1 phase
----------------------	---------------

Rated current of thermal relay	18A
--------------------------------	-----

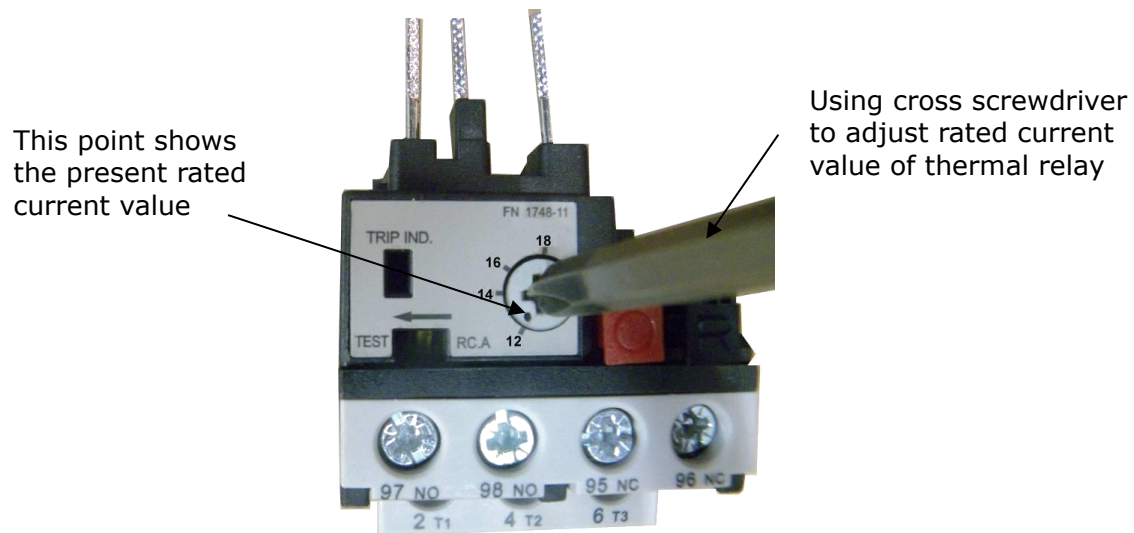
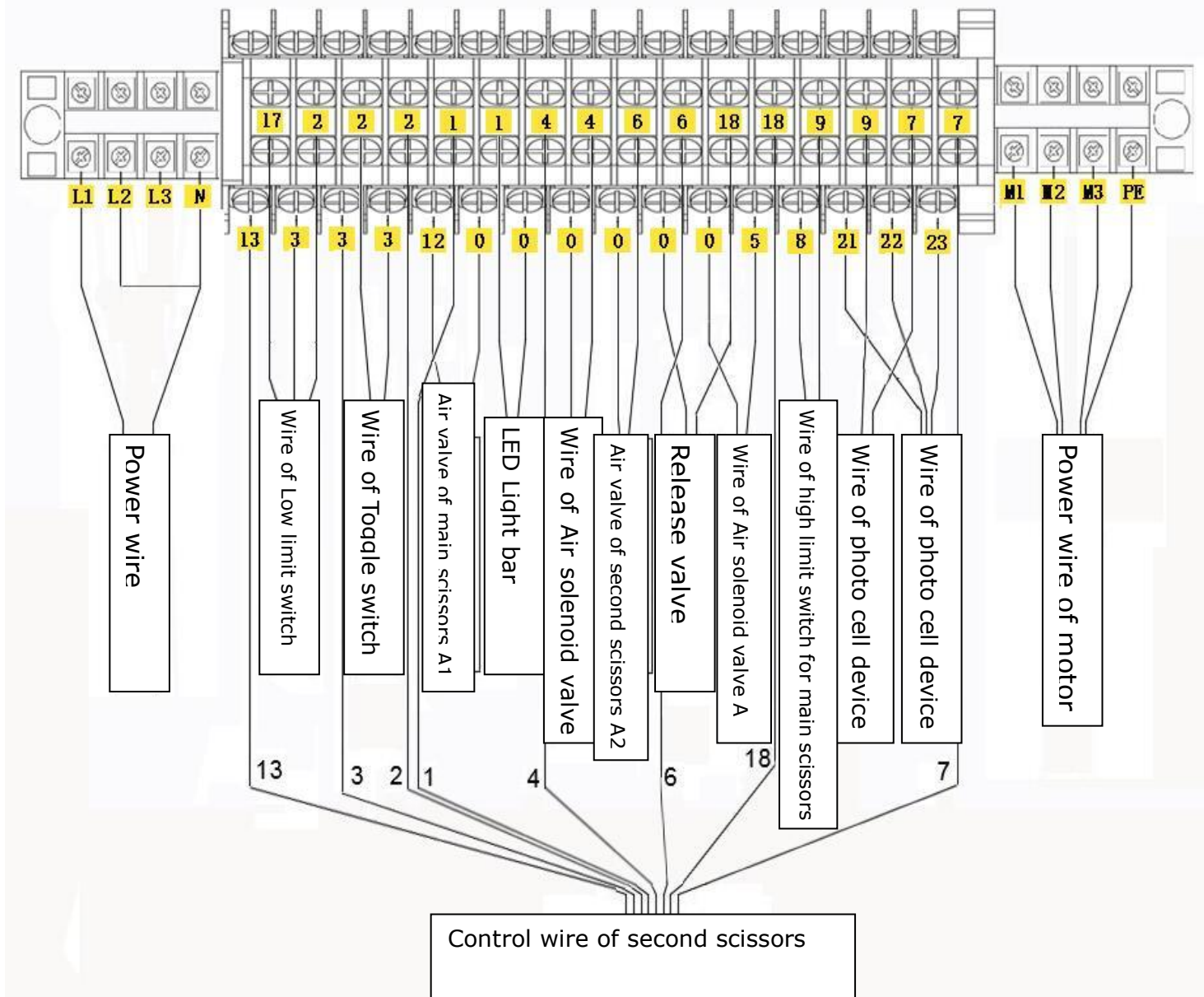


Fig. 20

2. Wire connection of hydraulic power unit (**220V**)

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

Fig. 21



220V Electric Component

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power switch	QS	25A	16	Two way globe valve	YA、YB	AC24V
2	Fuse	FU1	25A	17	Air solenoid valve	A1、A2	AC24V
3	Fuse	FU2	2A	18	Air solenoid release valve	Y	AC24V
4	Fuse	FU3	3A	19	Push button	UP1	Triple
5	AC contactor	KM	16A/AC24V	20	Push button	UP2	Duplex
6	Thermal relay	FR	7A-11A	21	Push button	Lick1	Triple
7	Transformer	TC	24VAC	22	Push button	Lick2	Duplex
8	Power indicator	R	24V White	23	Push button	Down1	Triple
9	Scram button	ESP	Normal close	24	Push button	Down2	Duplex
10	Toggle switch	ST	Two grades	25	Lower alarm button	K	Duplex
11	Rectifier bridge	UR	KBPC10-10	26	Limit switch	SQ1/SQ2	8108 (10A)
12	Photo cell device	SP	DC24V	27	Limit switch	SQ3	8104 (10A)
13	Intermediate relay	KA3	DC24V	28	Buzzer	H	AC24V
14	Intermediate relay	KA1、KA2	AC24V	29	Motor	M	3 Phase
15	Time relay	KT	AC24V				

E. Adjust Photo cell device and level two platforms

1. Tear down the cover of photo cell device on offside column firstly (See Fig.25)
2. Turn the toggle switch (SA) to **ON** Before filling oil, then raise the lift to the highest position to fill oil.
3. Press button UP, raise the platform P1 to about 1meter according to **Fig.27**, turn the adjusted handle according to the diagram position as **Fig.28**. Press button UP, raise the platform P2 to about 1 meter according then turn the adjusted handle to its original position.
4. When the level of platform P1 and P2 is beyond the working range of photo cell device during working and the power is off, turn the toggle switch to **ON**(the photo cell device is short circuit, and the circuit is connected),then adjust the level with filling oil. Turn the toggle switch back to **OFF**, the lift will work normally.
5. Check by level bar and adjust the lower leveling bolts(**See Fig.29**), use the shims to adjust the platforms until the front and rear of two platforms are in the same level. Adjust the Upper leveling bolts(**See Fig.30**) after it touch the Lower leveling bolts when lower to the lowest position. Then Tighten nut by wrench.

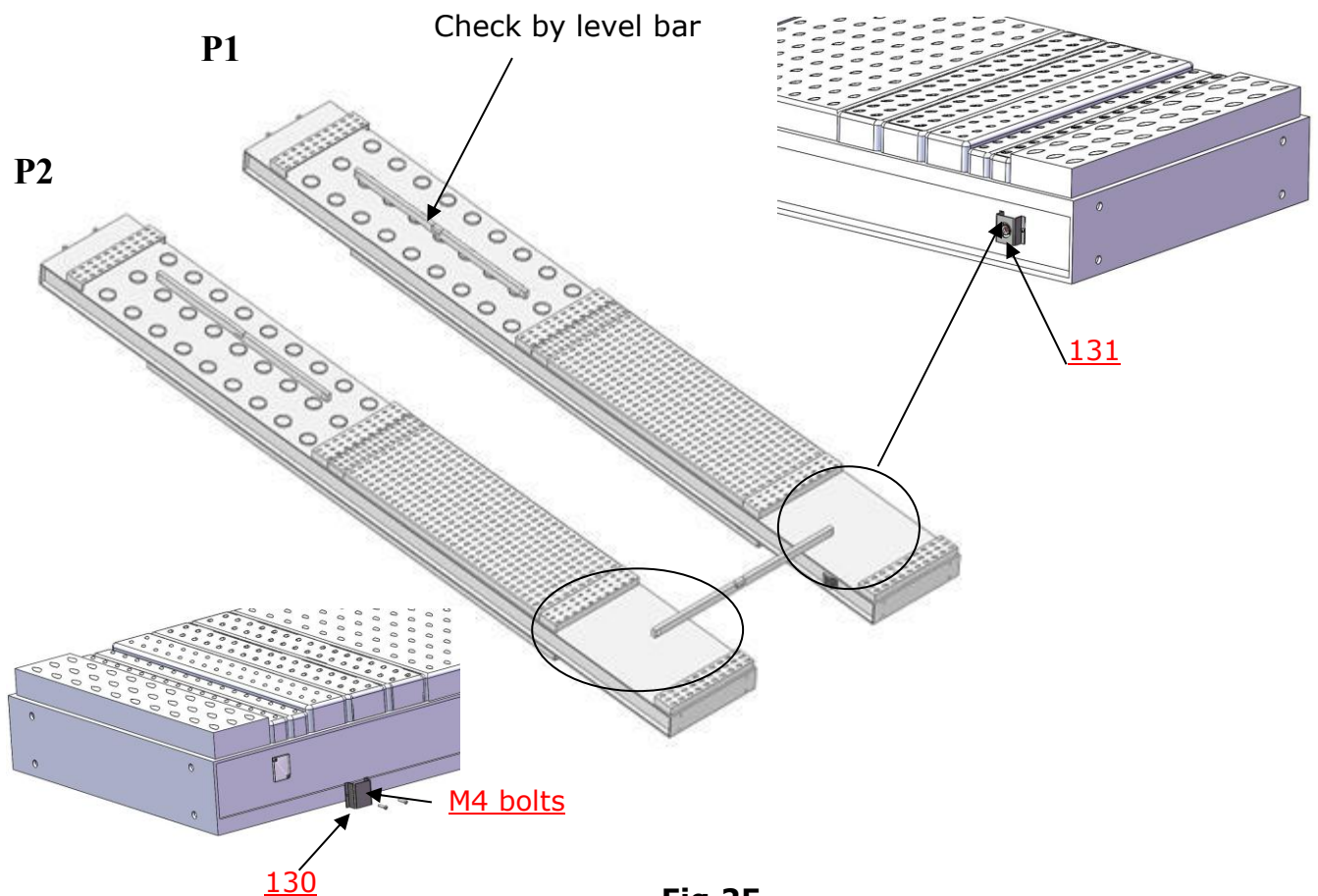


Fig.25



Toggle switch(SA)

Fig.26

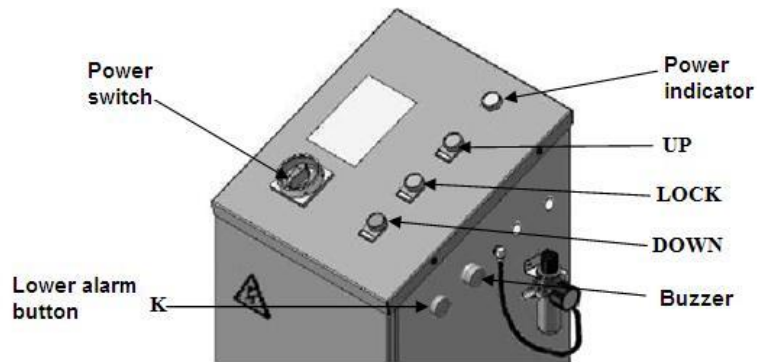


Fig.27

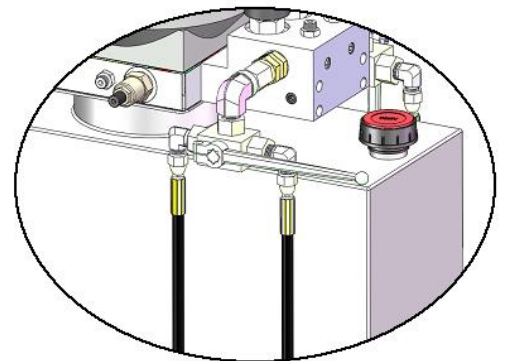


Fig.28

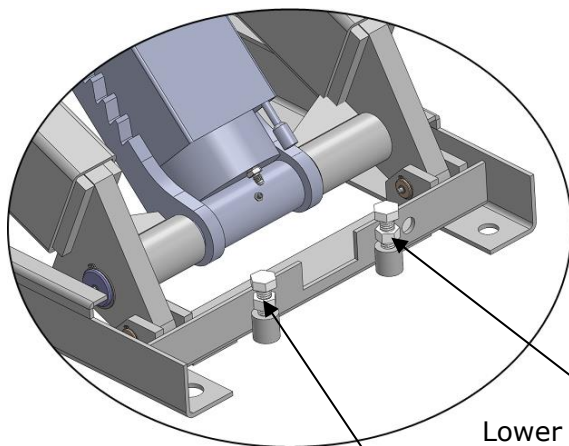


Fig.29

Tighten nut

Lower leveling bolts

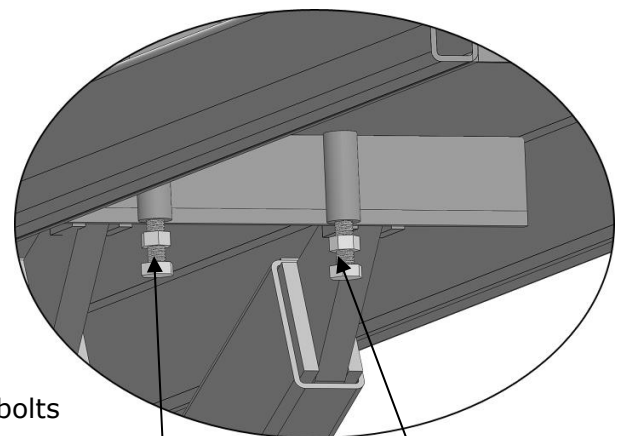


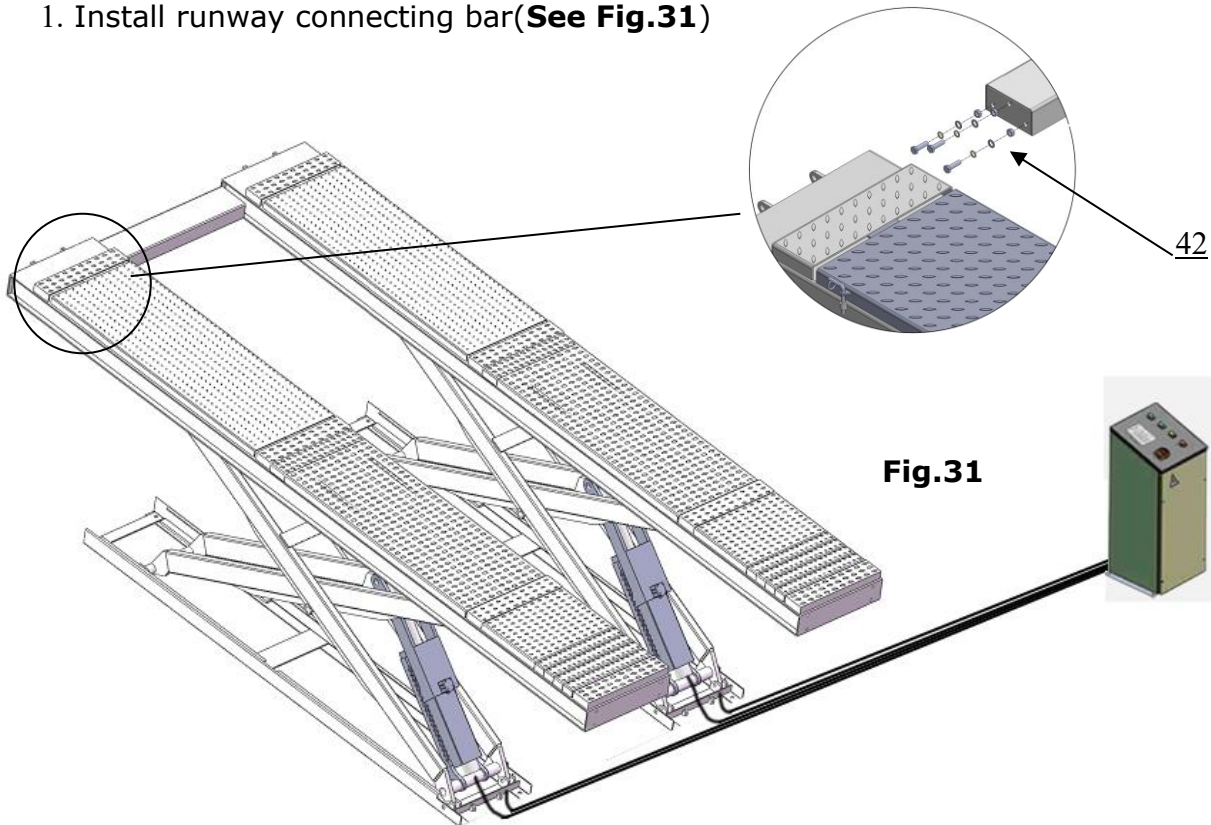
Fig.30

Tighten nut

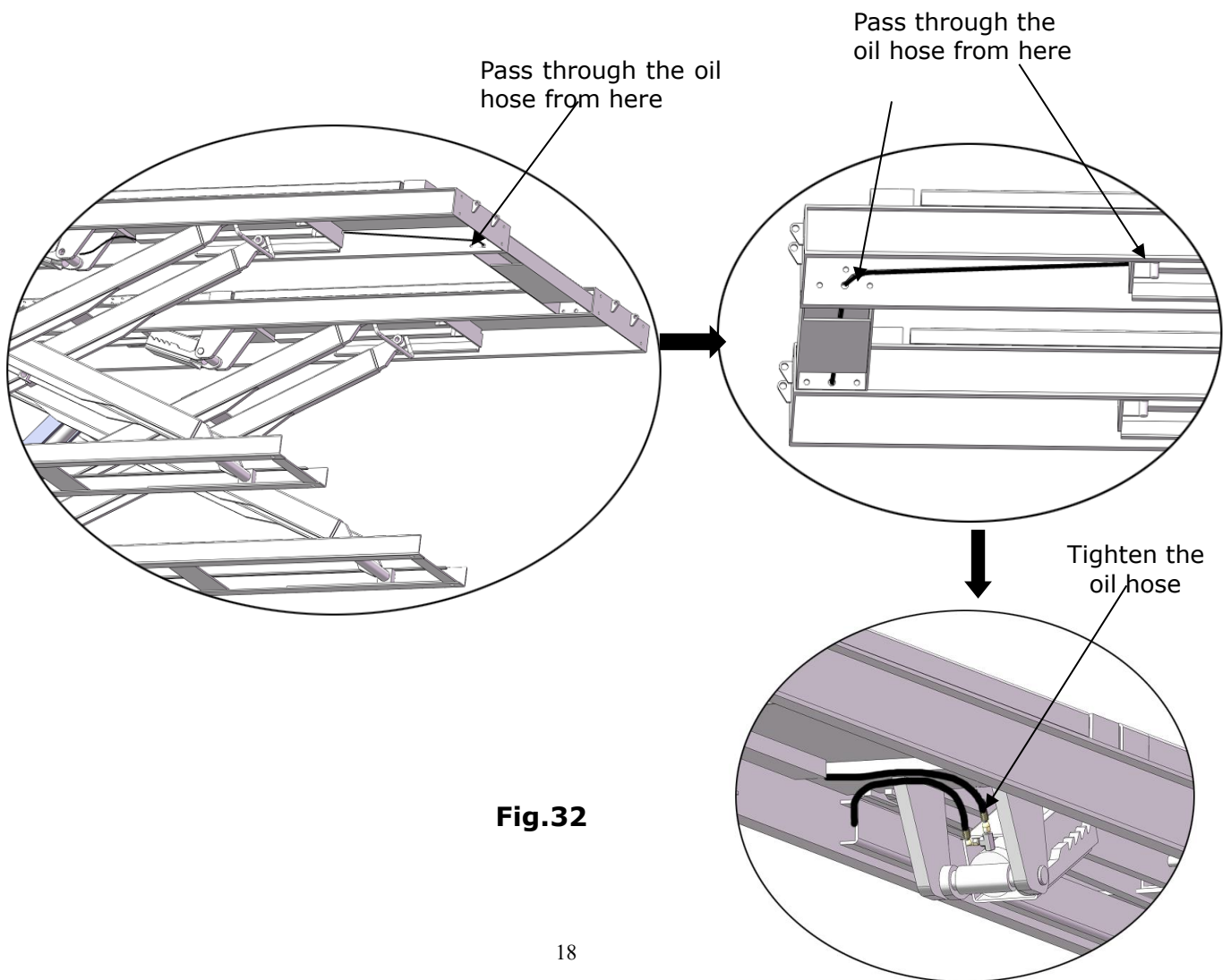
Upper leveling bolts

F. Install runway connecting bar and oil hose for secondly scissors.

1. Install runway connecting bar(See Fig.31)

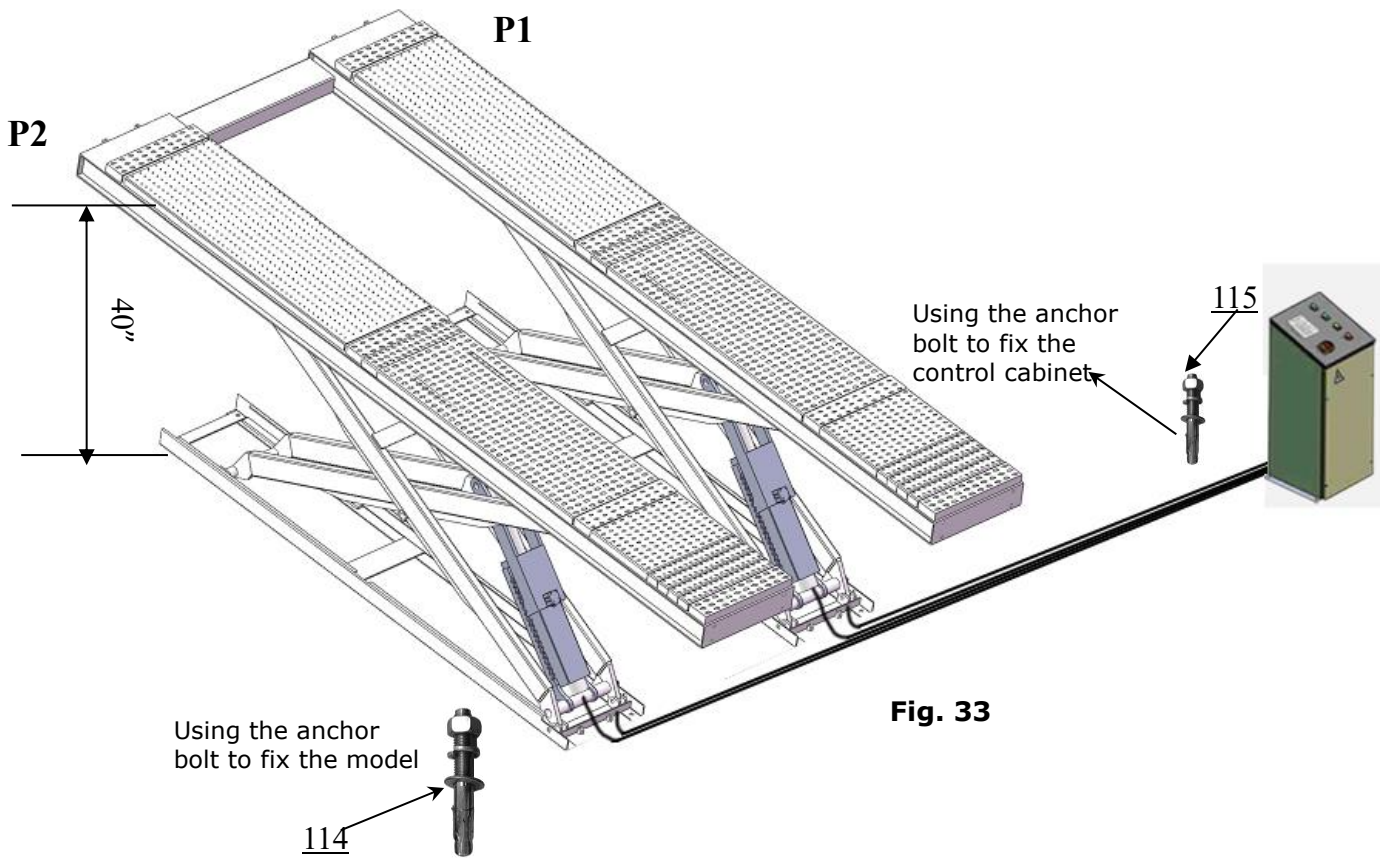


2. Install oil hose for secondly scissors(See Fig.32)



3. Install anchor bolts.

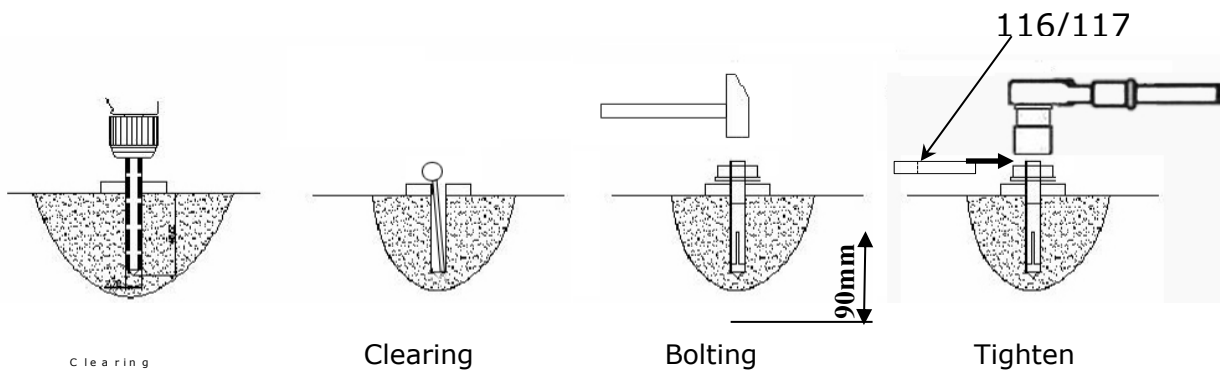
3.1 Raise the lift to 1000mm then drill holes to install the anchor bolts (**See Fig.33**)



3.2 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. 34**).

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



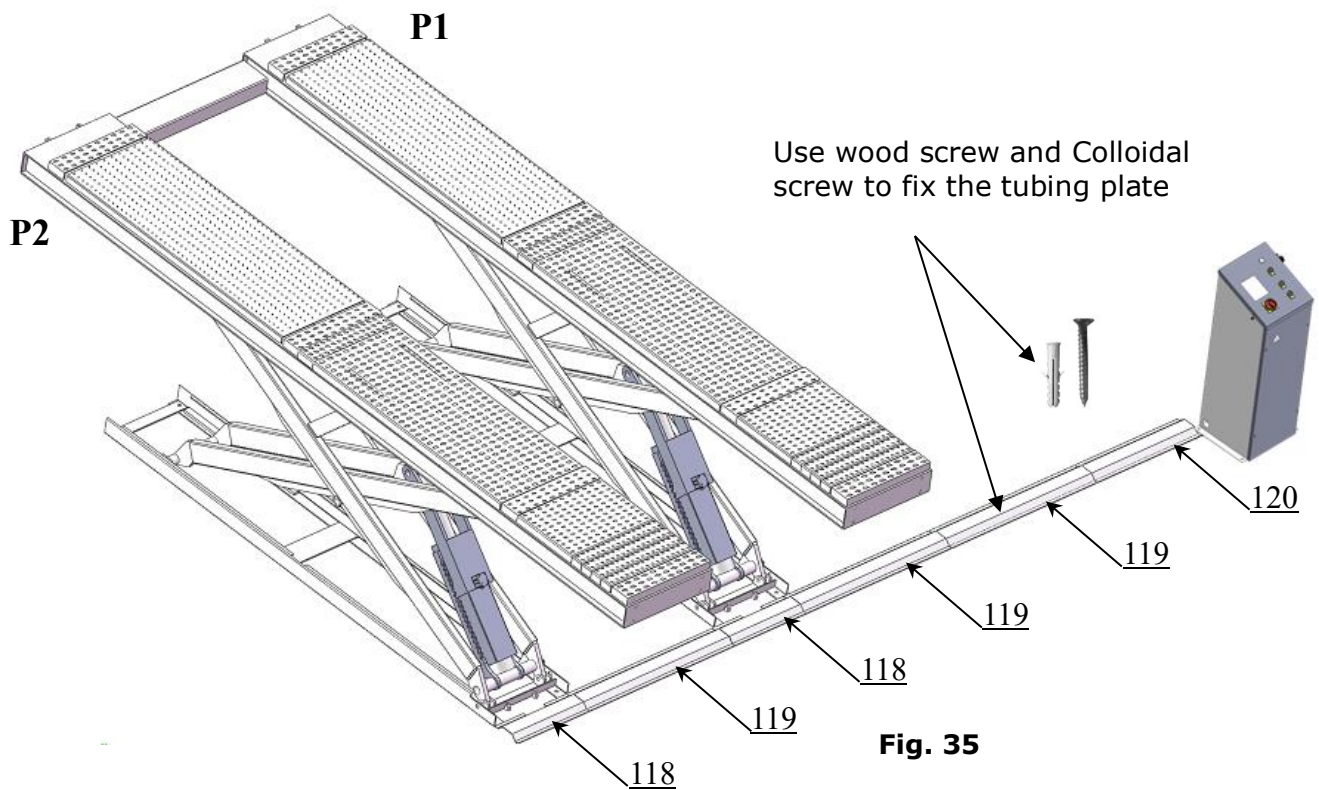
Anchor bolts for the model: Use $\Phi 19$ driller to drill hole

Anchor bolts for the control cabinet: Use $\Phi 10$ driller to drill hole

Fig. 34

G. Install oil hose cover for lift of on surface installation.

1. Tidy up the oil hose and air line, cover the oil hose cover (See Fig. 35).



2. Install bolt of oil hose cover (See Fig. 32).

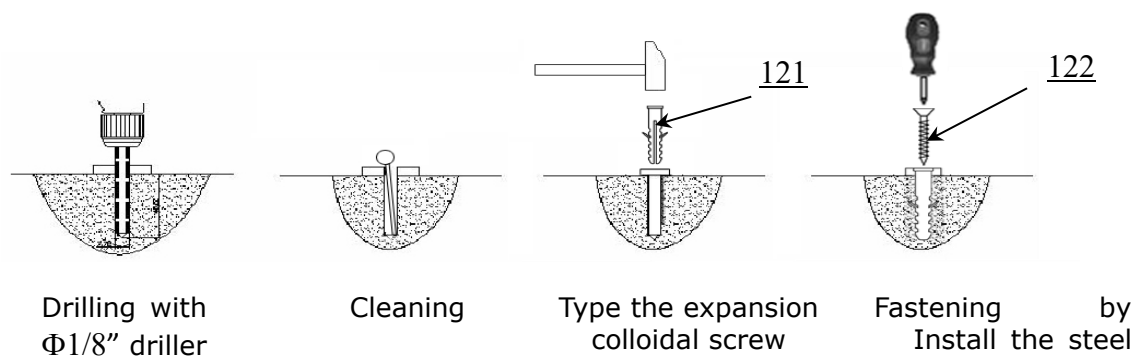
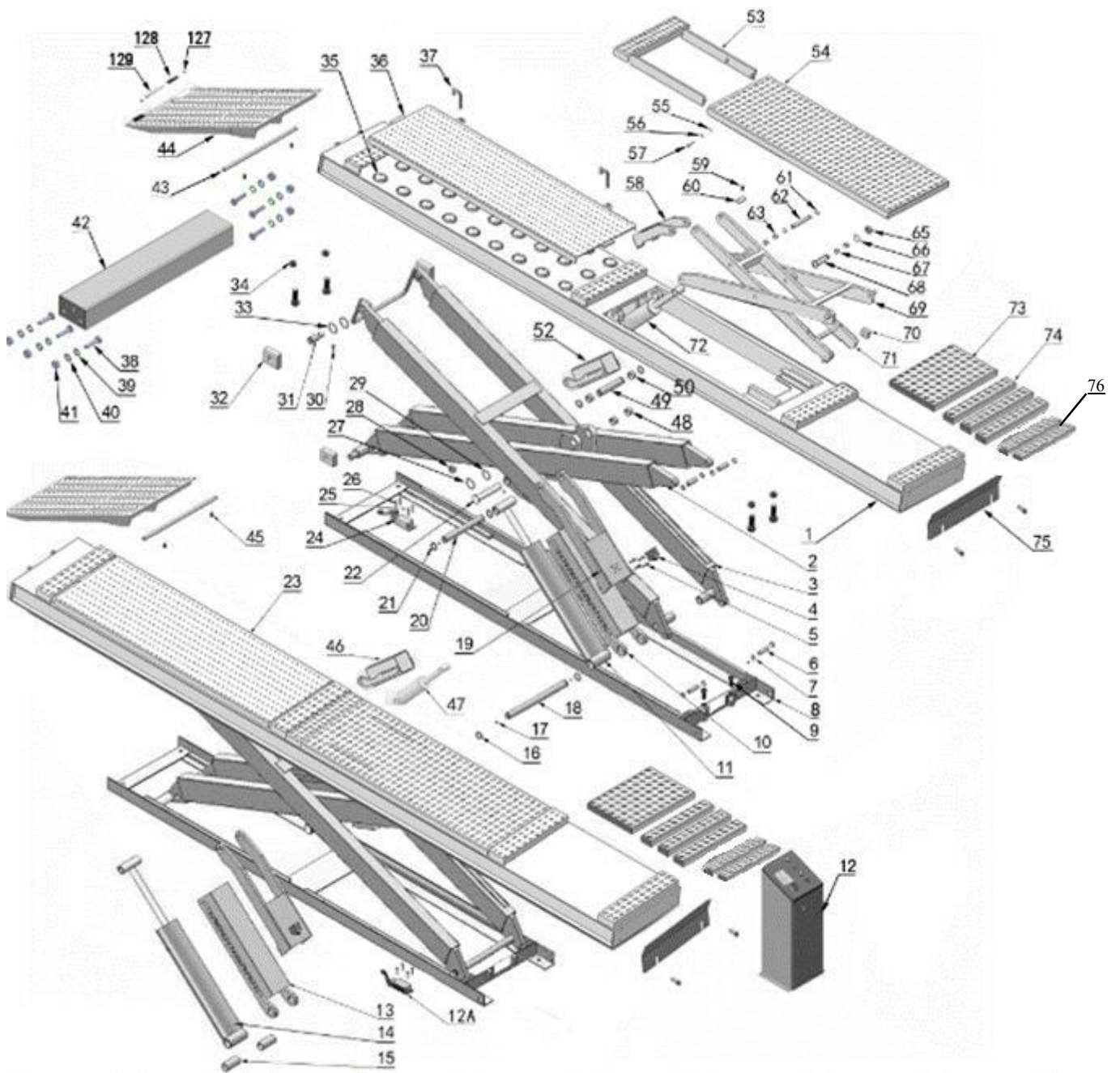


Fig. 36

IV. EXPLODED VIEW

Model: DX-12A



Turn plate optional parts (need one piece 40mm adjustment block on both sides when install the turn plate)

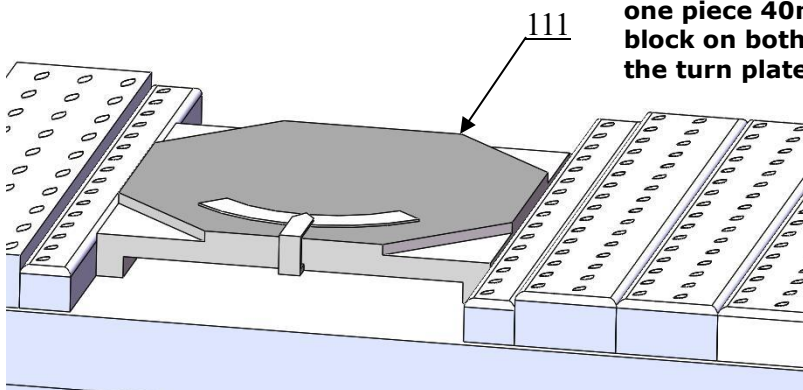


Fig. 37

MAIN CYLINDERS

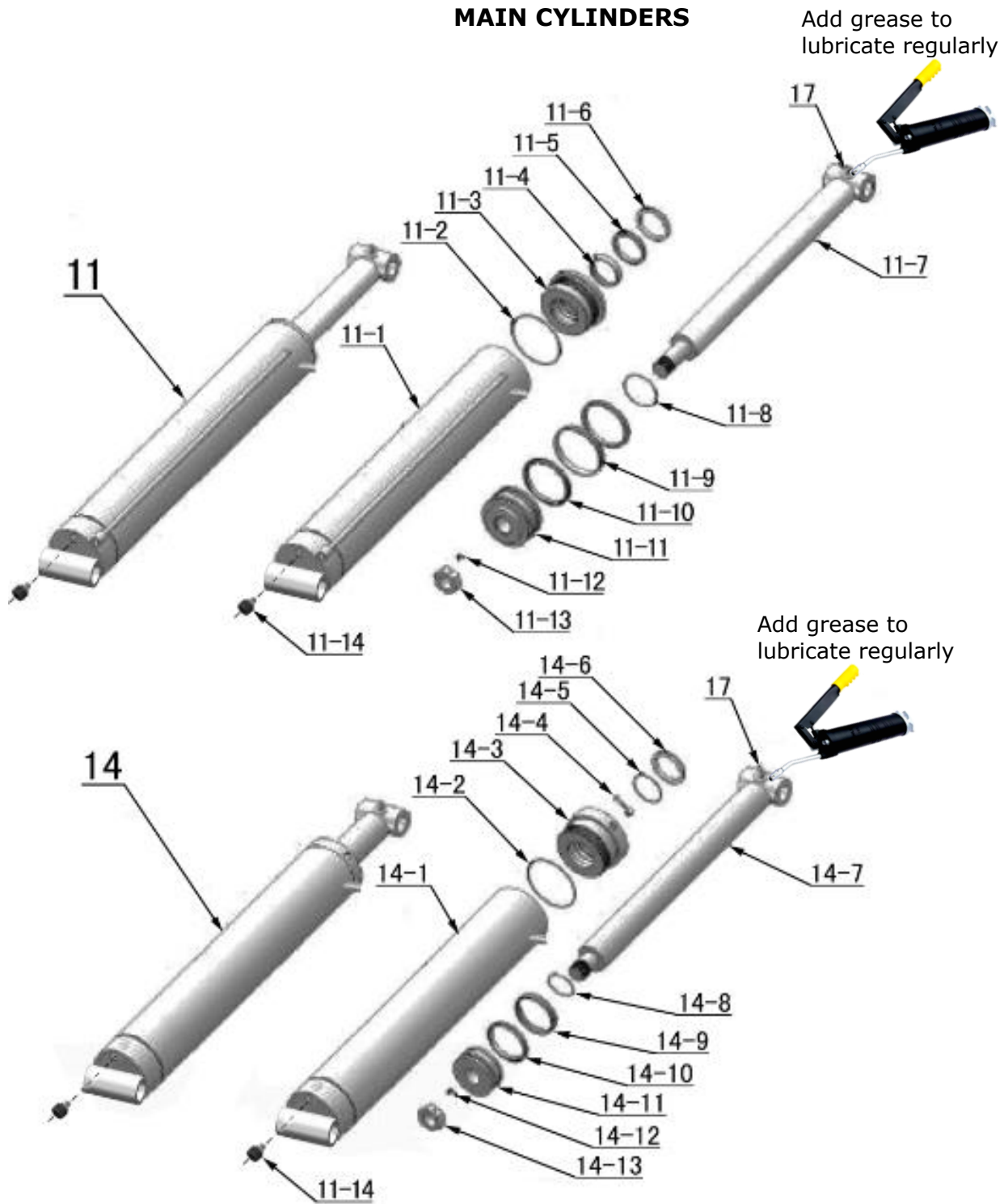


Fig. 38

SECONDLY CYLINDER

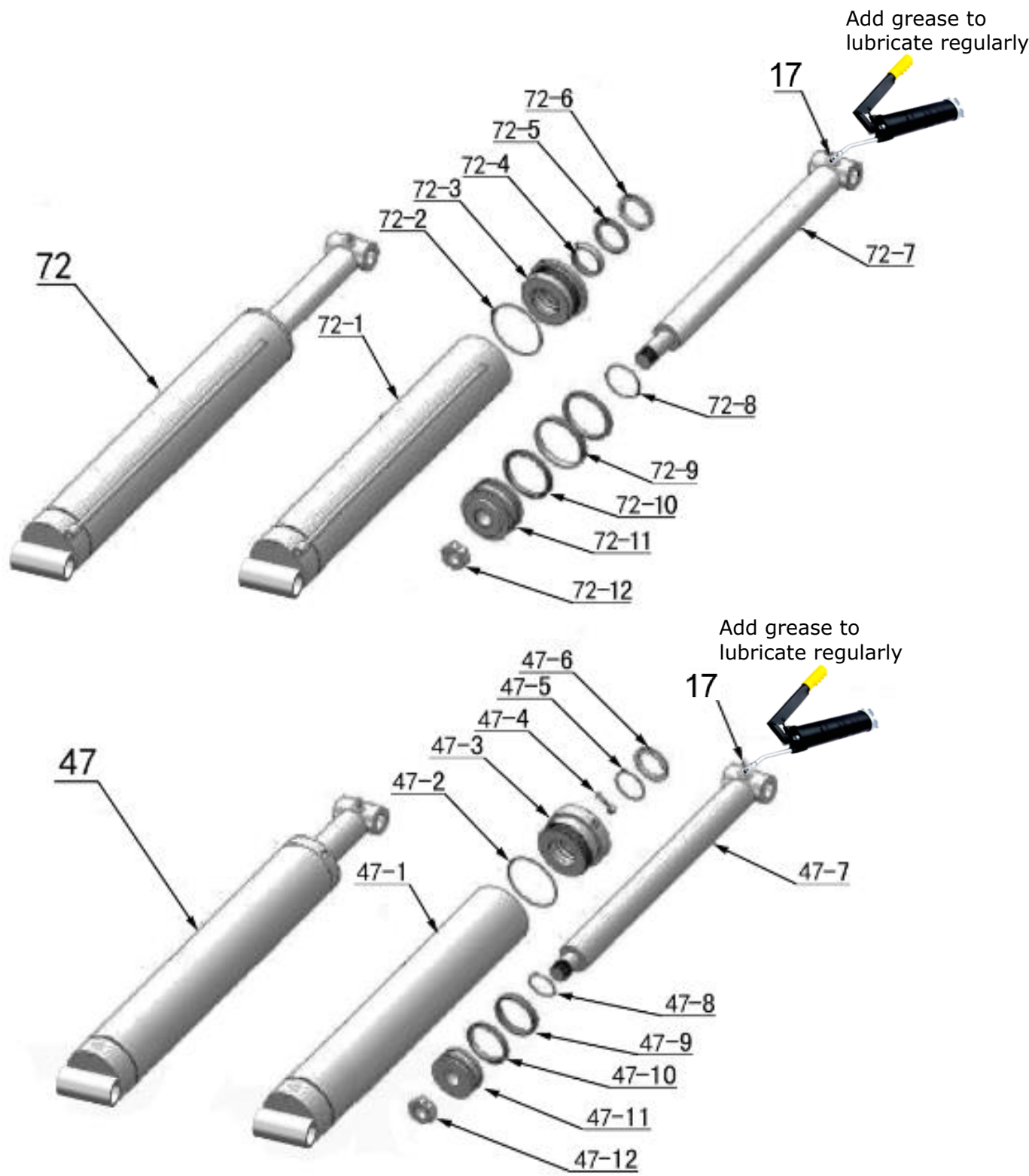


Fig. 39

CONTROL CABINET (fig41))

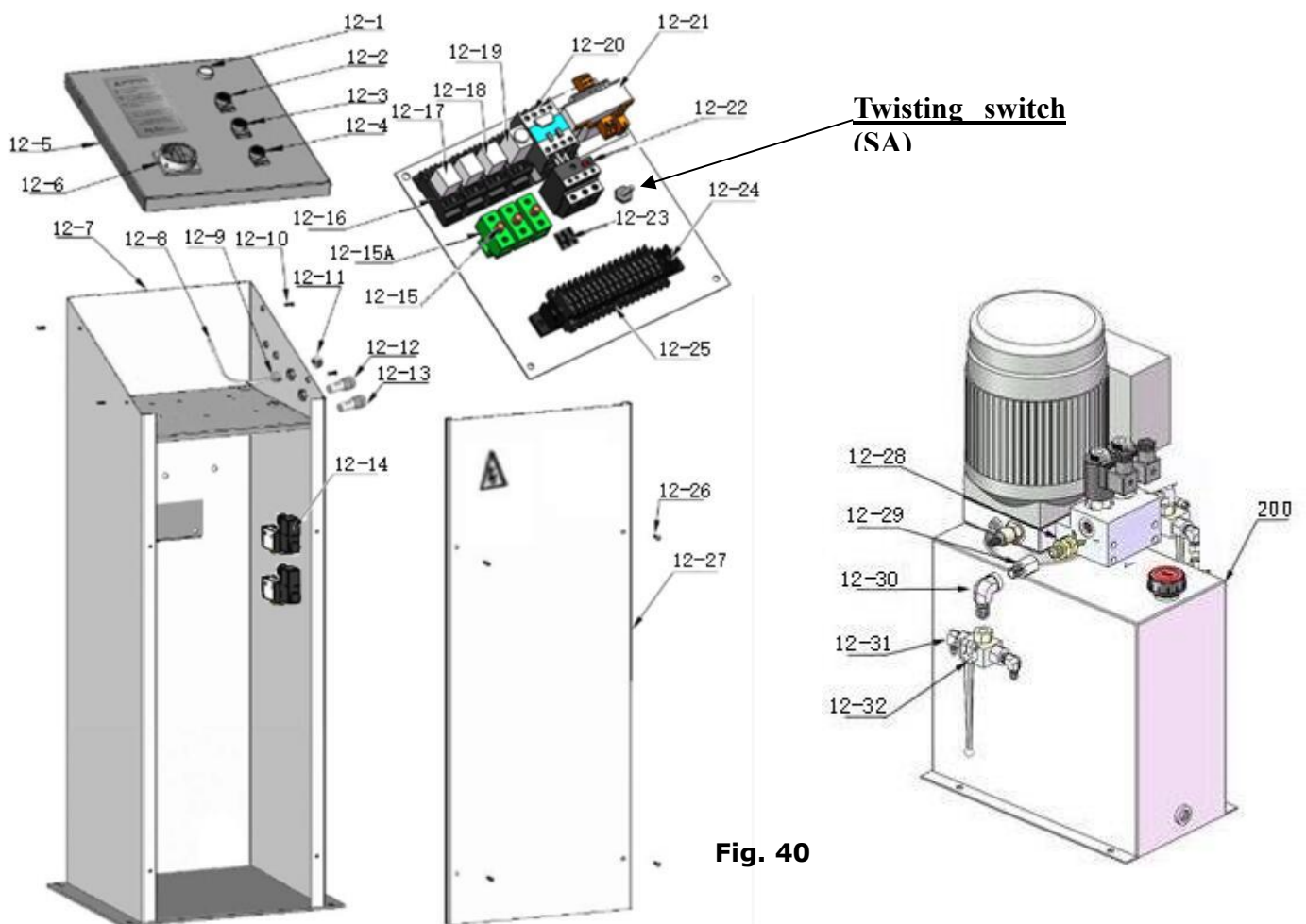


Illustration of hydraulic valve for power unit (fig41)

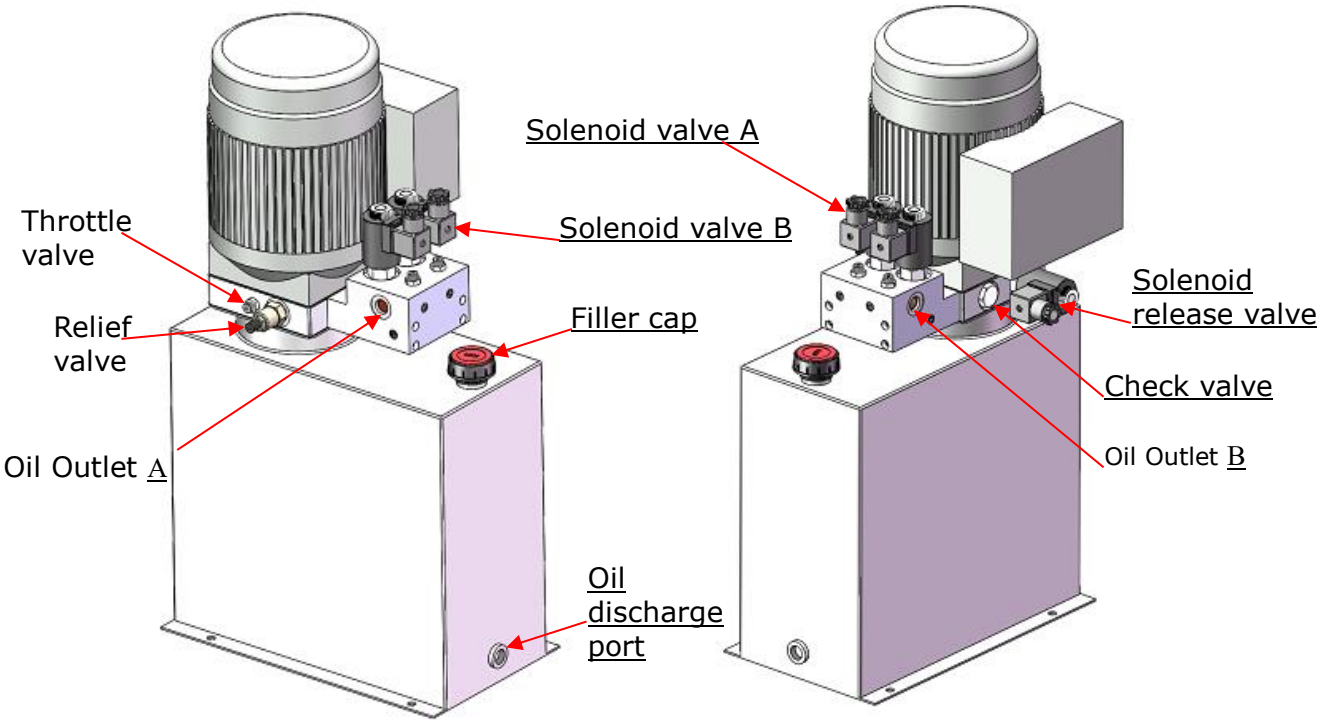


Fig. 41

Power unit part list explosive view (Fig42))

**220V/60HZ/single
phase/electric**

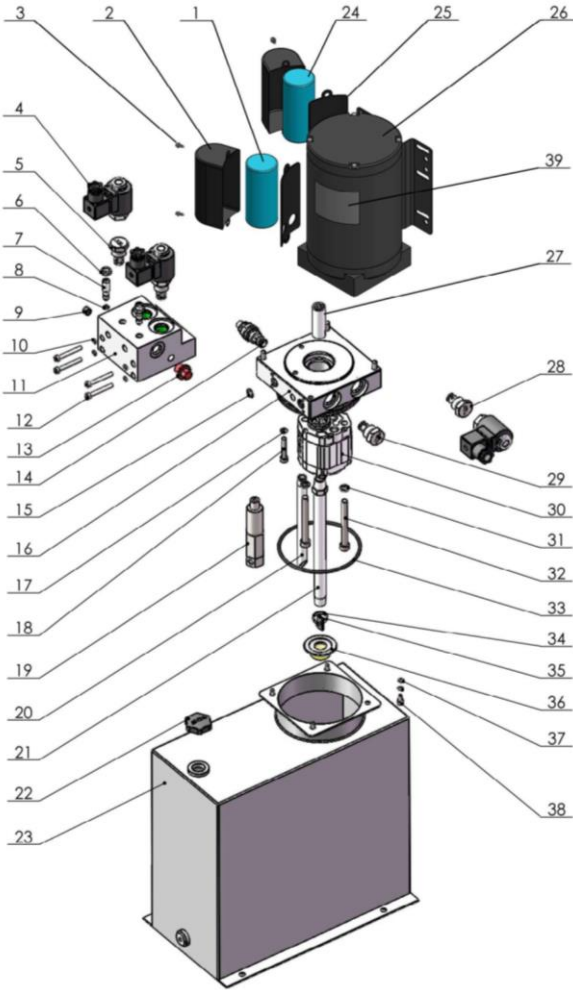


Fig. 42

V. TEST RUN

A. Fill oil to cylinder and Synchronous adjustment

1. Turn on the power, push the button **Up**, and check the rotated direction of the motor. Shut off power and exchange the phase connection if the motor rotated direction is wrong, then continue filling oil to cylinders.
2. Fill reservoir with Hydraulic Oil (**Note: In consideration of power unit's durability, please use Hydraulic Oil 46#**).
3. Lower both platforms to the lowest position.
 - a) Turn the Two-way valve to oil filling position (See Fig. 39), push button Up and fill oil to the secondly cylinder until it full, and then hold down the button Lock for a while for bleeding air. Repeat this step until no air in the hydraulic system (normally repeat two time the air will be bleed off).
4. b) Turn the Two-way valve to normal working position (See Fig. 40), push button Up to rise the lift, check if both platforms are at the same height, if not, do the synchronous adjustment till the two safety devices can be locked or released at the same time.

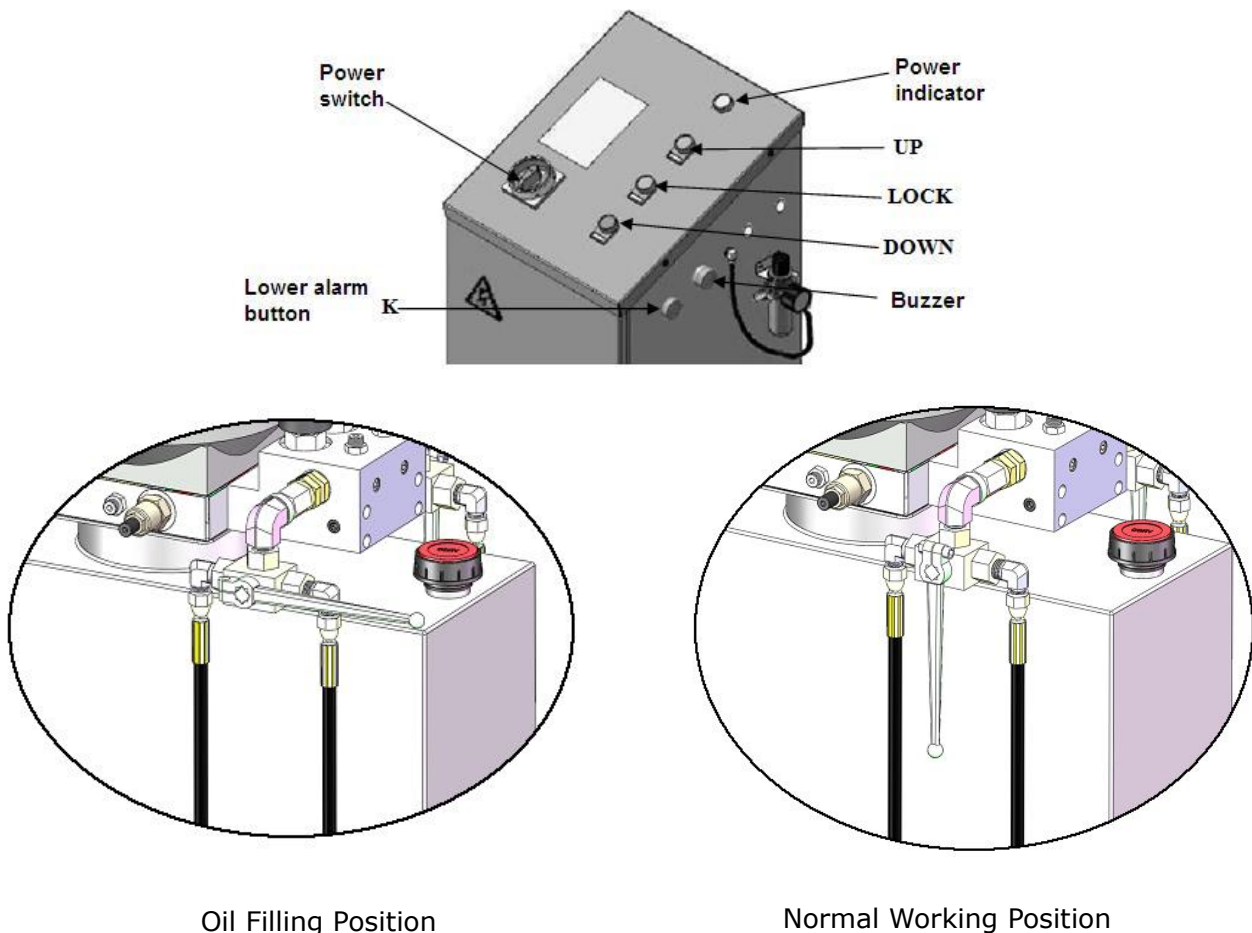
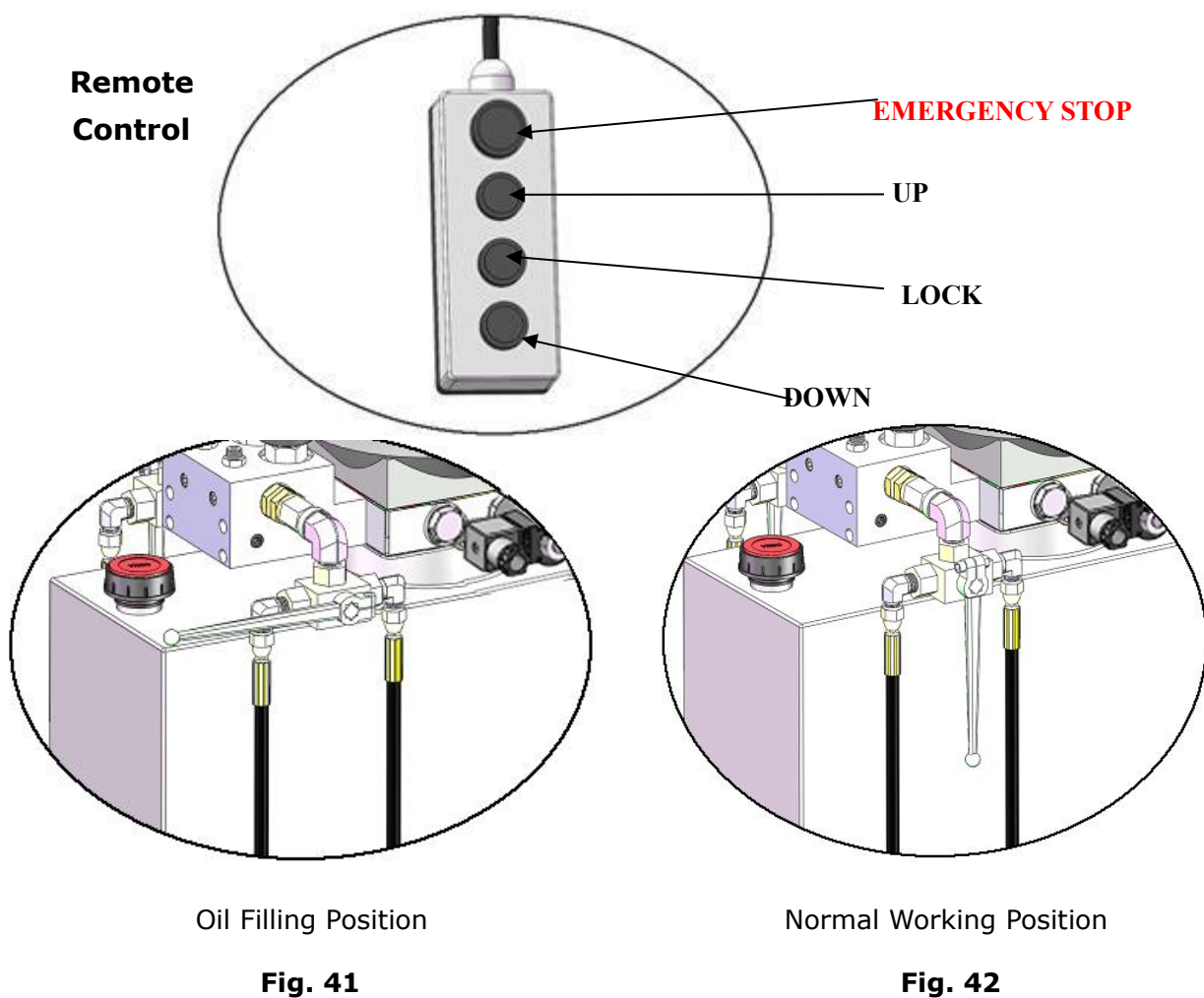


Fig. 43

Fig. 44

4. Lower both platforms of the secondly scissors to the lowest position.
 - a) Turn the Two-way valve to oil filling position (See Fig. 41), push button Up on the remote control and fill oil to the secondly cylinder until it full, and then hold down the button Lock for a while for bleeding air. Repeat this step until no air in the hydraulic system (normally repeat two time the air will be bleed off).
5. b) Turn the Two-way valve to normal working position (See Fig. 42), push button Up to on the remote control to rise the lift, check if both platforms are at the same height, if not, do the synchronous adjustment till the two safety devices can be locked or released at the same time.



B. Test run

Check the height limit switch, the hose and fitting connection, if everything is no problem then do test run. The lift must be tested and checked carefully before in use.

VI. OPERATION INSTRUCTIONS

To lift vehicle

1. Keep clear of site near the lift, and down the lift to the lowest position.
2. Drive vehicle on the platforms and pull the brake.
3. Turn on the power and push the button "**Up**", raise the lift to the working position.

Note: make sure the vehicle is steady when the lift is rising

4. Push the button "**Lock**", lock the lift in the safety device. Make sure the safety device is locked in the same height.

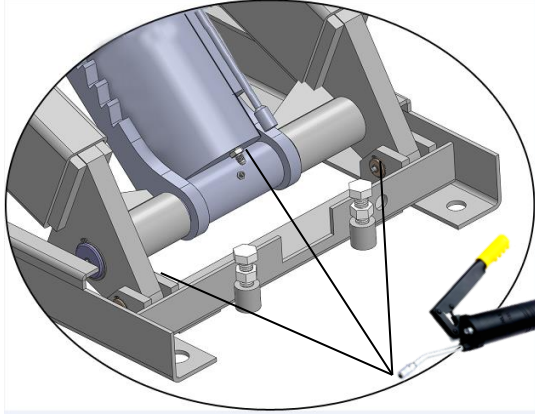
To lower vehicle

1. Be sure clear of around and under the lift, only leaving operator in lift area.
2. Push the button "**Down**", the lift is lowered continually and stopped at the height 24" from ground. Keep feet clear off lift, push button "**DOWN**" while push the **Lowering Alarm Button(K)** 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.

VII. MAINTENANCE SCHEDULE

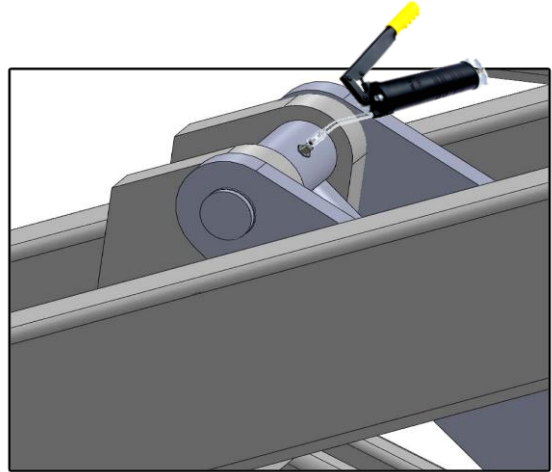
Monthly:

1. Re-torque the anchor bolts(**torsion:492lbs.ft**)
2. Lubricate all moving parts with lubricant



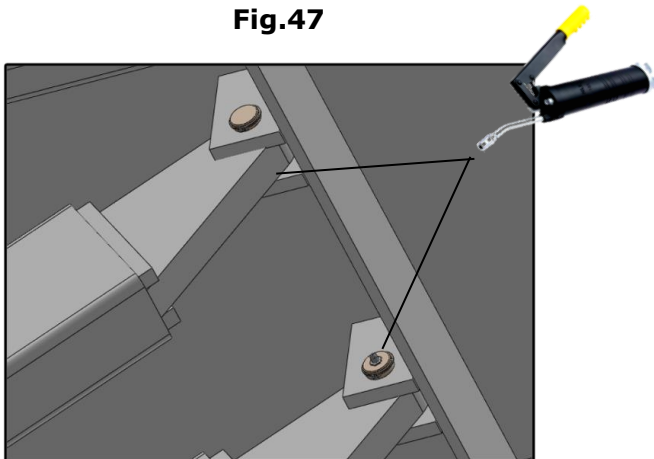
For main cylinder connecting pin

Fig.47



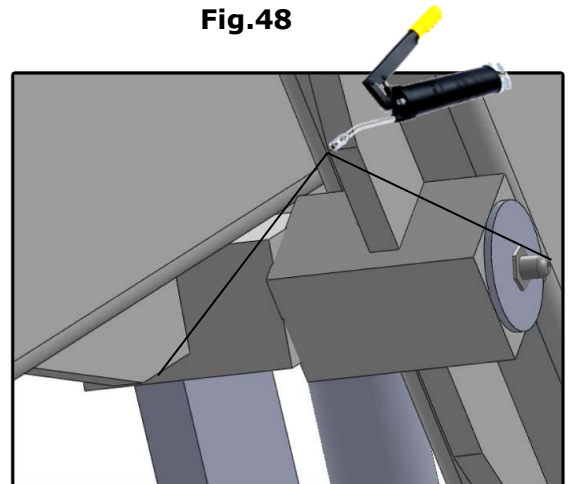
For pin of piston rod

Fig.48



**For pins of connecting
platforms and scissors**

Fig. 49



**For connecting pins of
scissors**

3. Check all fittings, bolts and pins to insure proper mounting.
4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage.
5. Adjusting the lifting level on both platforms.

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

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.

VIII.TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	1.Button does not work 2.Wiring connections are not in good condition 3. AC contactor burned out 4. Motor burned out	1. Replace button 2. Repair all wiring connection 3. Repair or replace contactor 4. Repair or replace motor
Motor runs but the lift is not raised	1. Motor runs in reverse rotation 2. Low oil level 3. The Gear Pump out of operation 4. Relief valve or check valve in damage 5. Hydraulic solenoid valve out of operation	1. Reverse two power wire 2. Fill tank 3. Repair or replace 4. Repair or replace 5. Repair or Replace
Lift does not stay up	1.Hydraulic solenoid valve out of operation 2.Relief valve or check valve leakage 3.Cylinder or fittings leaks	Repair or replace
Lift raised slowly	1. Oil line is jammed 2. Gear Pump leaks 3. Overload lifting 4. Power voltage low 5. Oil mixed with air	1. Clean the oil line 2. Repair or replace pump 3. Check load 4. Check electrical system 5. Fill tank and bleeding air
Lift cannot lower	1. Hydraulic solenoid valve out of operation 2. Air solenoid valve out of operation 3. Air cylinder in damage 4. Air line leaking	1. Repair or replace 2. Repair or replace 3. Repair or replace 4. Check the air line

IX. PARTS LIST

Item	Part#	Description	QTY	Note
1	11580705	Power side platform	1	
2	11580091	Inner Scissors(Main)	2	
3	11580092	Outer Scissors(Main)	2	
4	10520011	Air Cylinder	4	
5	10420153	Cup Head Bolt	16	
6	11580010	Pin for scissor	8	
7	10206032	Snap ring	16	
8	11580034	Base frame	2	
9	10510012	Screw	12	
10	11580703	Main Safety Lock Tube	4	
11	10580061	Main Cylinder	1	
12	10580008	Control Cabinet	1	
13	10510041	Lower Limit Switch Assy.	1	
14	10580062	Secondly Cylinder	1	
15	11510022	Cylinder spacer bush	4	
15A	11580071	Spacer bush	2	
16	10520020	Snap Ringφ50	4	
17	10620064	Grease Fitting	32	
18	11580009	Connecting Shaft For Main Cylinder	2	
19	11580708	Self-locking support plate assy	2	
20	11610005A	Connecting Pins for Cylinder	2	
21	10610098	Snap Ringφ35	8	
22	11580011	Connecting Pin For Scissors	4	
23	11580709	Offside Platform	1	
24	10510040	High Limit Switch Assy.	1	
25	10620109	Cup Head Bolt M4*18	4	
26	10420164	Cup Head Bolt M4*30	4	
27	10530023	Washer	4	
28	10610019	Self-locking nut	4	
29	10610108	Washer	4	
30	10520108	Socket head cap screw M8*10	4	
31	11580012	Connecting pin	4	
32	10530012	Slider	8	
33	10420023A	Washer	8	
34	10420175A	Hex nut	12	
35	10420157	Steel Ball Set	60	
36	11570003	Rear Slip Plate	2	
37	11520037	Pin for Rear Slip Plate	4	

38	10420136	Hex screw	10	
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Item	Part#	Description	QTY	Note
39	10206006	Washer	6	
40	10420026	Spring washer	6	
41	10206023	Hex Nut	6	
42	11580031	Runway Connecting Bar	1	
43	11510006	Pin for connecting plate	2	
44	11520005A	Drive-in Ramp	2	
45	10201005	Split pin	4	
46	11580029	Safety device assy.(secondly)	1	
47	10580019	Secondly cylinder for secondly	1	
48	10530042	Bronze bush	4	
49	11580016	Connecting pin for cylinder bottom cap	2	
50	10420132A	Bronze bush	4	
51	11510018	Guild Ramp (Flush mount)	2	
52	11580028	Safety device assy.(Main)	1	
53	11580030	Shelf	2	
54	11580024	Platform for secondly scissors	2	
55	10209033	Washer	2	
56	10209034	Spring washer	2	
57	10201002	Hex screw	2	
58	11580027	Safety device assy for secondly	2	
59	10580005	Socket head cap screw M6*10	8	
60	11580015	Connecting pin	8	
61	10610008	Snap Ring	4	
62	11580013	Connecting pin for piston rod	2	
63	10620141	Bronze bush	4	
64	10580503	Parts box(on surface)	1	
65	10620022	Slotted self-locking nut	4	
66	10640109	Washer	4	
67	10203004A	Bronze bush	16	
68	11580014	Main connecting pin	4	
69	11580707	Outer scissors for secondly	2	
70	10580103	Slider	8	
71	11580706	Inner scissors for secondly	2	
72	10580018	Main cylinder for secondly	1	
73	11580089	Turnplate cover	2	
74	11580090	Turnplate adjustment block	6	

Item	Part#	Description	QTY	Note
75	11520004A	Tire stop plate	2	
76	11580097	Turnplate adjustment block	4	
77	10580048	90° Fitting	4	
78	10520065	Spring oil hose	2	
79	10520069	90° air quick Fitting	3	
80	10580001	Black air hose	1	
81	10610097	90° Fitting	5	
82	10610101	Washer	5	
83	10510051	⑤ Oil hose	1	
84	10420124	T fitting	2	
85	10610099	Cup Head Bolt	5	
86	10510050	② Oil hose	1	
87	10510049	① Oil hose	1	
88	10211016	T fitting	1	
89	10510052	③ Oil hose	1	
90	10420119	Straight fitting for cylinder	1	
91	10510023	Straight fitting	2	
92	10510052	④ Oil hose	1	
93	10620079	Straight fitting	3	
94	10209062	T Fitting	1	
95	10580007	Spring air hose	2	
96	10580006	Air hose	1	
97	10580003	⑥ Oil hose	1	
98	10420124	T Fitting	1	
99	10580003	⑦ Oil hose	1	
100	10580056	⑨ Oil hose	1	
101	10580002	⑩ Oil hose	1	
102	10420119	T Fitting	1	
103	10209064	Straight fitting	1	
104	10580003	⑧ Oil hose	1	
105	10420145	Oil water separator	1	
106	10420076	90° Fitting for air hose	2	
107	10680005	Cup Head Bolt	7	
108	10420018	Self-locking nut	3	
109	10420146	Straight fitting for air hose	1	
110	10580045	Hook	1	
111	11420158	Turnplate	2	
112	10580046	Remote control	1	
113	10800091	Wire cable	1	
114	10209059	Anchor bolt	8	

Item	Part#	Description	QTY	Note
115	10620071	Anchor bolt	4	
116	10201090	Shim	20	
117	10620065	Shim	20	
118	11580040	Oil hose cover	2	
119	11540027	Oil hose cover	3	
120	11540025	Oil hose cover	1	
121	10620070	Rubber Screw(On Surface)	36	
122	10620069	Wood Screw(On Surface)	36	
123	11540029	Oil hose cover	1	
124	10610070	Rubber pad	4	
125	10620034	Rubber pad	4	
126	10580502	Part box(flush mount)	1	
127	10209010	Snap spring	8	
128	11610667	Roller for Drive-in ramp	4	
129	11620043	Ramp roller pin	4	
130	11580741	Photo cell device protect cover	2	
131	10580107	Photo cell device assy	1	
200	171205	Power unit	1	
Parts for Cylinder of main scissors				
11-1	11580078	Main Cylinder	1	
11-2	10580066	O- Ring	1	
11-3	11580079	Head Cap	1	
11-4	10580069	Support Ring	1	
11-5	10580065	Y- Ring	1	
11-6	10580067	Dust Ring	1	
11-7	11580080	Piston Rod	1	
11-8	10520054	O- Ring	1	
11-9	10580068	Support Ring	1	
11-10	10580064	Y- Ring	2	
11-11	11580081	Piston (Maine)	1	
11-12	10520049	Set Screw	1	
11-13	10520047	Hex Nut	1	
11-14	10530009	Burst valve	2	
14-1	11580082	Secondly Cylinder	1	
14-2	10520053	O- Ring	1	
14-3	11580083	Head Cap	1	
14-4	10201034	Bleeding Plug	2	
14-5	10580070	O- Ring	1	
14-6	10580067	Dust Ring	1	
14-7	11580080	Piston Rod	1	
14-8	10520054	O- Ring	1	

Parts for Cylinder of main scissors				
14-9	10520056	Support Ring	1	
14-10	10520055	Y- Ring	1	
14-11	11580084	Piston	1	
14-12	10520049	Set Screw	1	
14-13	10520047	Hex Nut	1	
14-14	10530009	Burst valve	1	

Item	Part#	Description	QTY	Note
Parts for Cylinder of secondly scissors				
72-1	11580049	Main Cylinder	1	
72-2	10510059	O- Ring	1	
72-3	11580050	Head Cap	1	
72-4	10620047	Support Ring	1	
72-5	10620046	Y- Ring	1	
72-6	10209078	Dust Ring	1	
72-7	11580051	Piston Rod	1	
72-8	10206069	O- Ring	1	
72-9	10510058	Support Ring	1	
72-10	10510057	Y- Ring	2	
72-11	11580052	Piston (Main)	1	
72-12	10206071	Hex Screw	1	
47-1	11580053	Secondly Cylinder	1	
47-2	10630027	O- Ring	1	
47-3	11630030	Head Cap	1	
47-4	10201034	Bleeding Plug	1	
47-5	10620058	O- Ring	1	
47-6	10209078A	Dust Ring	1	
47-7	11580051	Piston Rod	1	
47-8	10206069	O- Ring	1	
47-9	10620053	Support Ring	1	
47-10	10620054	Y- Ring	1	
47-11	11580054	Piston (Secondly)	1	
47-12	10206071	Hex Screw	1	
Parts for control Cabinet				
12-1	10201094	Power indicator	1	
12-2	10420071	Button UP	2	
12-3	10420071	Button LOCK	2	
12-4	10420072	Button DOWN	2	
12-5	1152K001C	Control Panel	1	
12-6	10420074	Power Switch (QS)	1	

Parts for control Cabinet				
12-7	1152K007D	Cabinet Body	1	
12-8	10420167C	Air Line	2	
12-9	1061K110	Straight Fitting For Air Line	1	
12-10	10209145A	Cup Head Bolt	4	
12-11	10420076	90° Fitting For Air Line	3	
12-12	10420143	Buzzes	1	
12-13	10420142	Alarm decent button switch	1	
12-14	10420077	Electromagnetic air valve	2	
12-15	10420086	Insurance tube	3	
12-15A	10420087	Base for insurance tube	3	
12-16	10420135	Time relay base	4	
12-17	10420141	Intermediate relay	2	
12-18	104101049 8	Intermediate relay	1	
12-19	10420083	Time relay	1	
12-20	10420084A	AC contractor	1	
12-21	10420134	Control transformer	1	
12-22	10440034	Heat relay	1	
12-23	10580101	Rectifier bridge	1	
12-24	10580112	Terminal block	1	
12-25	10580113	Double terminal	1	
12-26	1152K022	Hex nut	4	
12-27	10440009	Control cabinet door plate	1	
12-28	10110009	Direct fitting	2	
12-29	10630103	Transition joints	1	
12-30	10520K027	90° fitting	2	
12-31	1042097	90° fitting	4	
12-32	1061K018	T fitting	2	

Parts For Electric Power Unit 220V/60Hz/1 Phase				
1	81400088	Run capacity	1	
2	81400066	Capacity cover	2	
3	420148	Hex bolt with wash	4	
4	81400420	Hydraulic Solenoid Valve Coil	3	
5	81400424	Double check solenoid valve	2	
6	81400269	Nut	2	
7	81400459	throttle valve core	3	
8	10209069	O ring	3	
9	81400333	Hex iron plug	6	
10	10209143	Washer	8	
11	81400340	Secondly manifold block	1	
12	81400330	Hex bolt	4	
13	81400259	Red plastic plug	2	
14	81400266	Relief valve	1	
15	85090344	O ring	2	
16	81400372	Main manifold block	1	
17	10209149	Washer	4	
18	81400142	Hex nut	4	
19	81400294	Trimmer valve	1	
20	81400376	Oil return hose	1	
21	81400381	Oil suction hose	1	
22	81400263	Oil tank cover	1	
23	81400343	Oil tank	1	
24	81400130	Start capacity	1	
25	81400180	Rubber pad	2	
26	81400413	Steel plate motor	1	
27	81400363	Motor connecting shaft	1	
28	81400423	Electric release valve	1	
29	070002	Check valve	1	
30	81400292	Gear pump	1	
31	10209034	Washer	2	
32	81400295	Hex nut	2	
33	81400365	O ring	1	
34	10209152	Belt	1	
35	85090167	Magnet	1	
36	81400290	Filter net	1	
37	10420152	Washer	4	
38	81400438	Hex crew	4	
39	71111112	Amgo power unit label	1	



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