



Original

# Installation And Service Manual

## **SCISSORS LIFT** **Model: DX-12A**

### **Cargo Claims**

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

### **⚠ DANGER**

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

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### **Explanation of the safety warning symbols used in this manual**

-  DANGER Risk of death or injury
-  WARNING Dangerous or unsafe practices that may result in death or injury
-  CAUTION Dangerous or unsafe practices that may result in personal injury, product damage or property damage
- ATTENTION Conditions that may result in damage to products or property

## PROFILE

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

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

Record the information on the nameplate label here:

Model No.:

Serial No.:

Manufacturer date:

## WARRANTY

The warranty period for the steel structure part of new car lift is 5 years, hydraulic components, bronze bushings, sliders and plastic parts are under warranty for 2 years, and electrical components and sync cable, lock release cable warranty for 1 year.

Rubber pads are without warranty. During the warranty period, the manufacturer will repair or replace the defective parts free of charge including shipping costs.

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

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

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

## SAFETY WARNING LABEL

### WARNING



Please read the user manual before operation.



Please lock the safety device before repairing the vehicle.



Always wear protective shoes and mind your feet during lowering.



Please keep hands and feet away from "X" or connection points during operation.



Do not rock or shake raised vehicles



Unbalance lifting of vehicle is strictly forbidden.



The vehicle should be parallel with lift platforms.



Please run away quickly from any falling objects.

**PLEASE READ THE PRECAUTIONS CAREFULLY**

No.71030134

## **IMPORTANT SAFETY INSTRUCTIONS**

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

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

16. Maintain with care. Keep the machine clean for better and safer operation. Perform proper lubrication and maintenance procedures according to the manual. Keep handles or buttons clean, dry, and free of oil.
17. Stay alert. Use common sense to observe what you are doing and stay alert.
18. Check for damaged parts. Check for adjustments to moving parts, damage to parts, or anything that may affect their operation. Do not use the machine if the parts are damaged.
19. Do not remove relevant safety parts from the machine. Do not use a lift if it is damaged or missing.
20. Only operate the lift at temperature between 5°C to 40°C(41°F to 104°F).

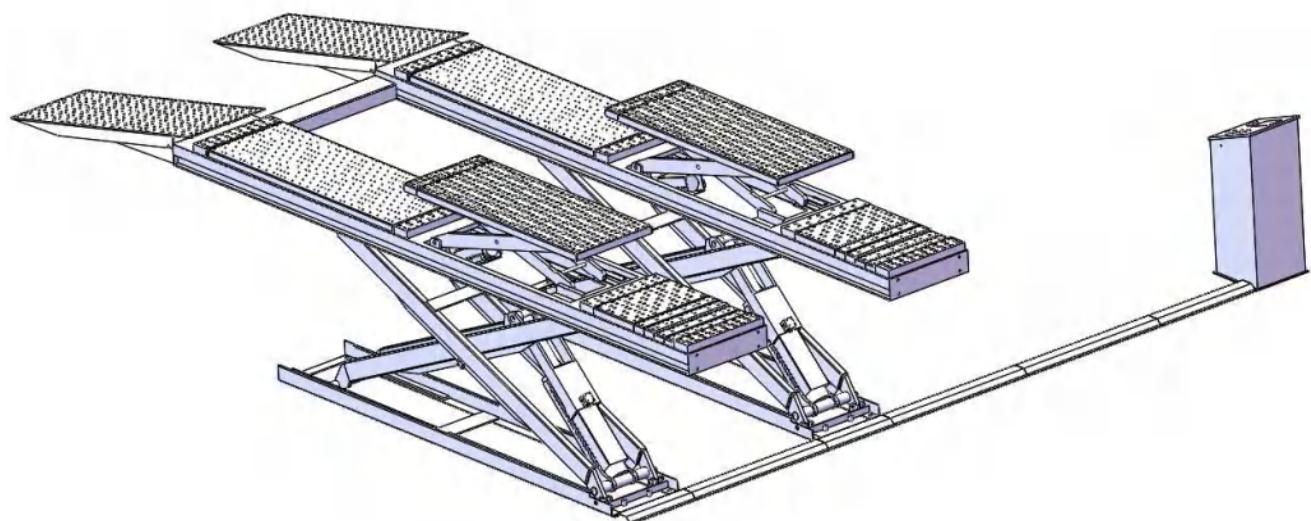
 **DANGER** Be very careful when installing, operating, maintaining or repairing this equipment. Failure to comply may result in property damage, product damage, injury or (in very rare cases) death. Ensure that only authorized personnel operate the equipment. All repairs must be carried out by an authorized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

## I. PRODUCT FEATURES AND SPECIFICATIONS

### 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 collapse
- 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"	12 5/8"	64S	256 "	86 1/4"	24 5/8"	37"	5706 lbs	2.0HP

**⚠ CAUTION** When driving the vehicle, stay in the middle between the platforms. If you hit any part of the lift, you could damage the car or lift.

## II. INSTALLATION REQUIREMENT

### A. TOOLS REQUIRED

✓ Rotary Hammer Drill ( $\phi 19$ ,  $\phi 10$ ,  $\phi 4$ ,)



✓ Carpenter's Chalk



✓ Hammer



✓ Screw Sets



✓ Level Bar



✓ Tape Measure (7.5m)



✓ English Spanner (12")



✓ Pliers



✓ Ratchet Spanner With Socket (28#)



✓ Lock Wrench



✓ Wrench Set (8#, 14#, 15#, 17#, 19#)



✓ 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 **4"** mm 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/cm<sup>2</sup>) minimum.
3. Floors must be level and no cracks.

## **C. POWER SUPPLY**

The electrical source must be 2.0HP minimum. The source cable size must be 0.003875sq.in and in good condition of contacting with floor.

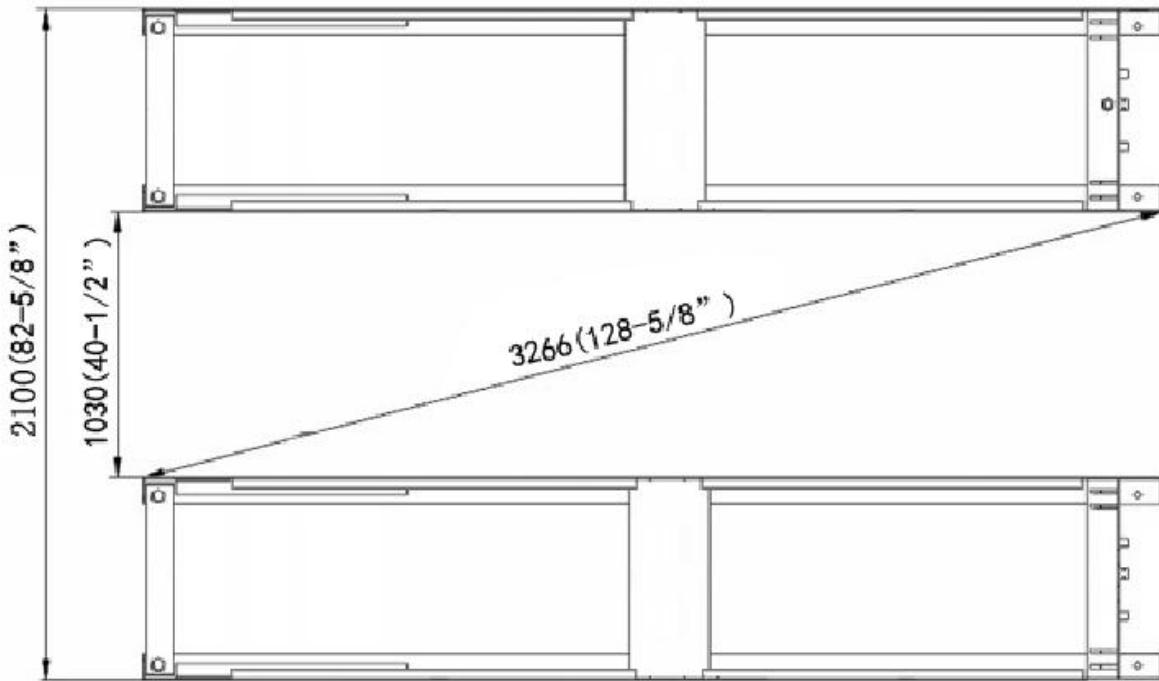
## **III. STEPS OF INSTALLATION**

### **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).**

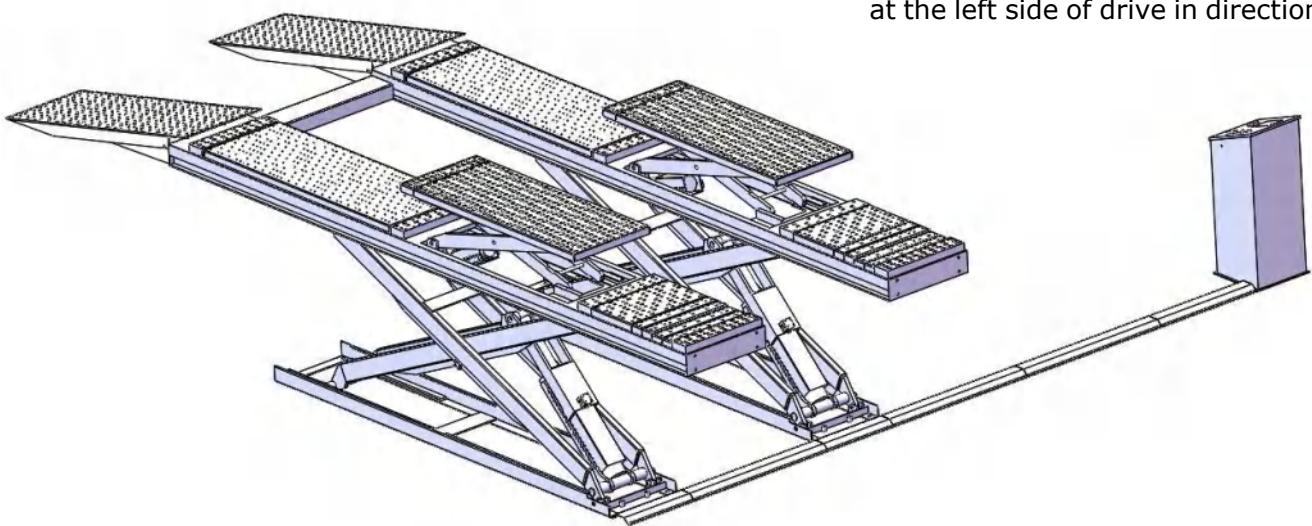


**Fig. 3**

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

Noted:

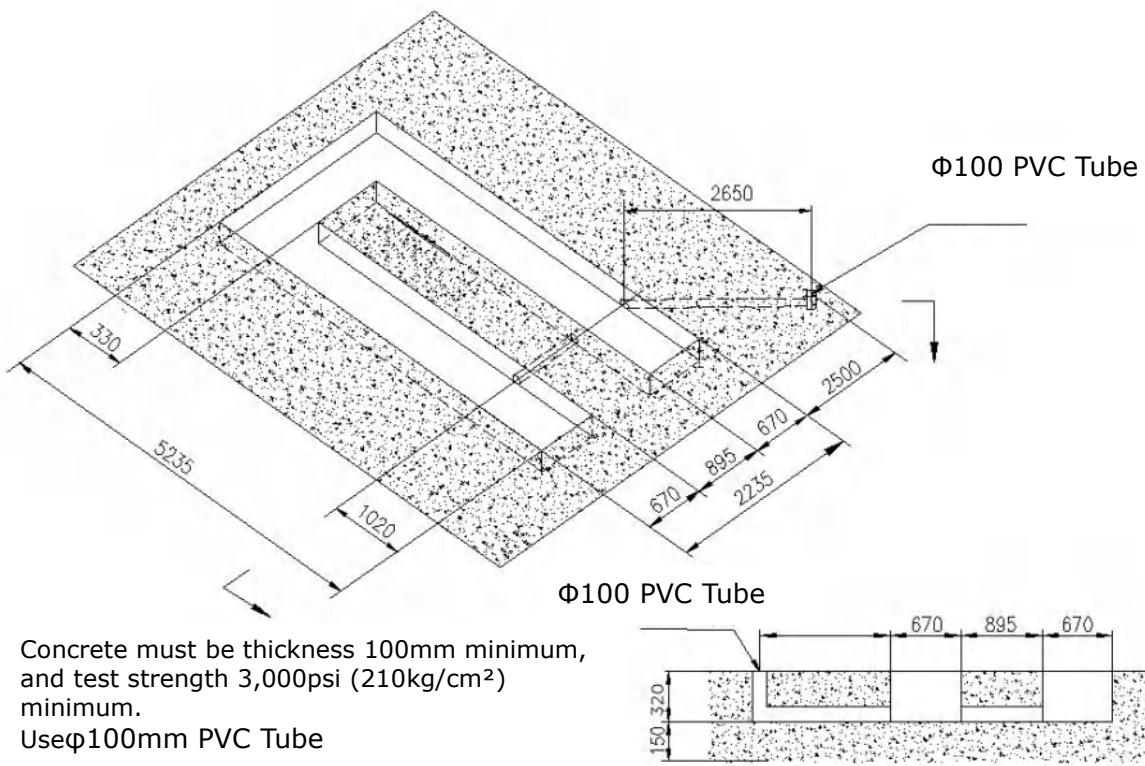
Control cabinet can be installed at the left side or the right side of drive in direction. Below figure show the control cabinet installed at the left side of drive in direction.



**Fig. 4**

## 2. For Optional Installation: Flush mount installation

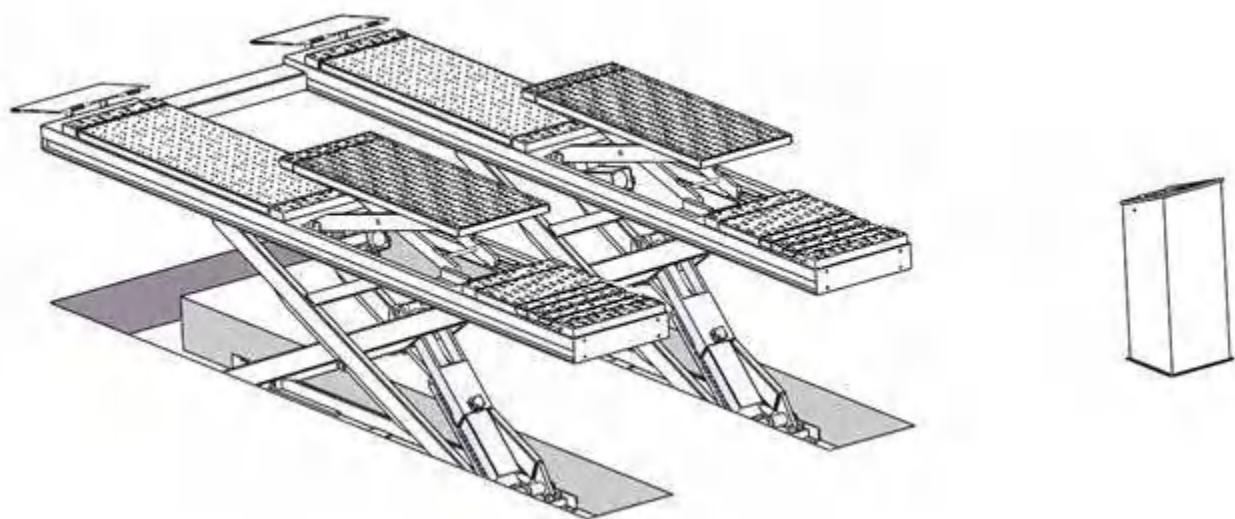
### 2.1 Flush Mount Installation Foundation (Fig.5).



1. Concrete must be thickness 100mm minimum, and test strength 3,000psi (210kg/cm<sup>2</sup>) minimum.
2. Use  $\varnothing 100$ mm PVC Tube

**Fig. 5**

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



**Fig. 6**

**B. Check the parts before assembly.**

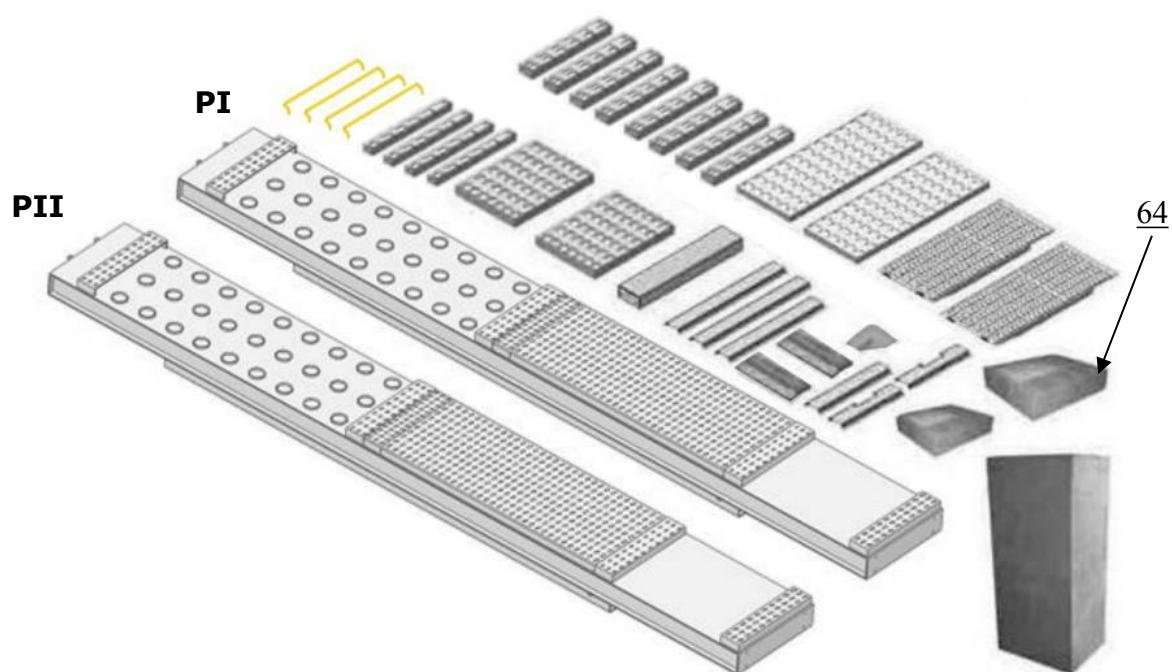
1. Packaged lift and control cabinet (**See Fig. 7**).



**Fig. 7**

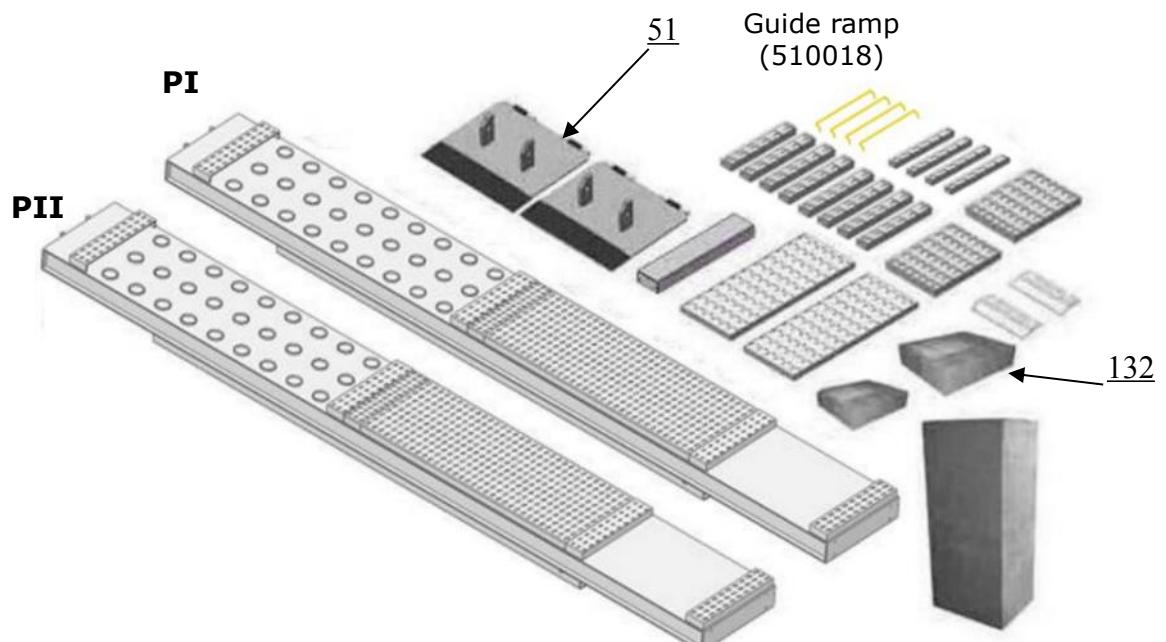
2. Move aside the lift with fork lift or hoist, and open the outer packing carefully

### 2.1 Parts for lift 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**

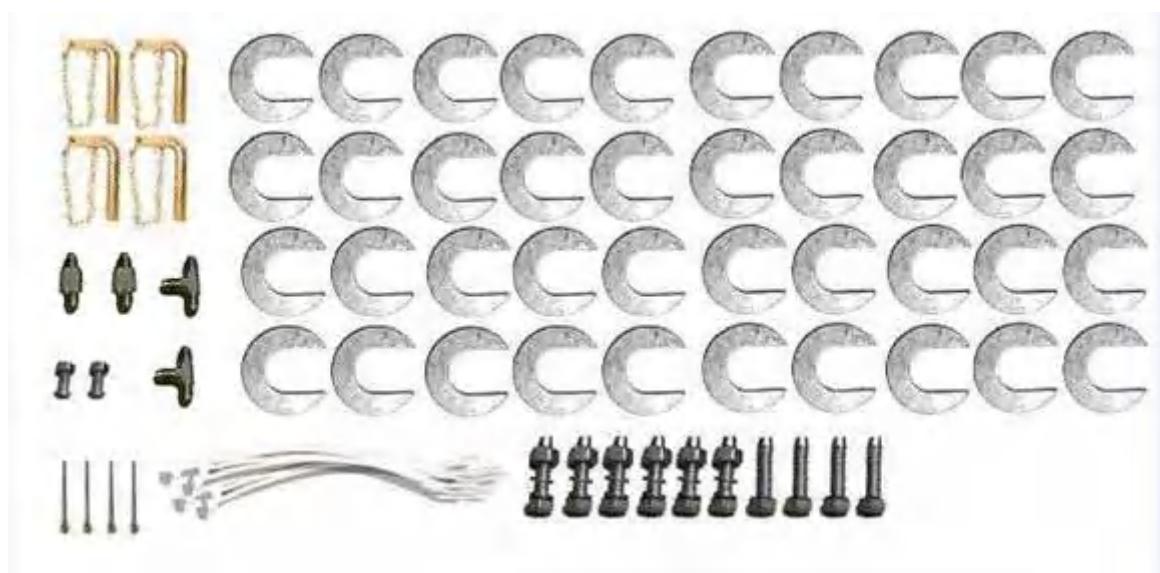
4. Check the parts of the parts bag according to the parts bag list.

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



**Fig. 11**

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

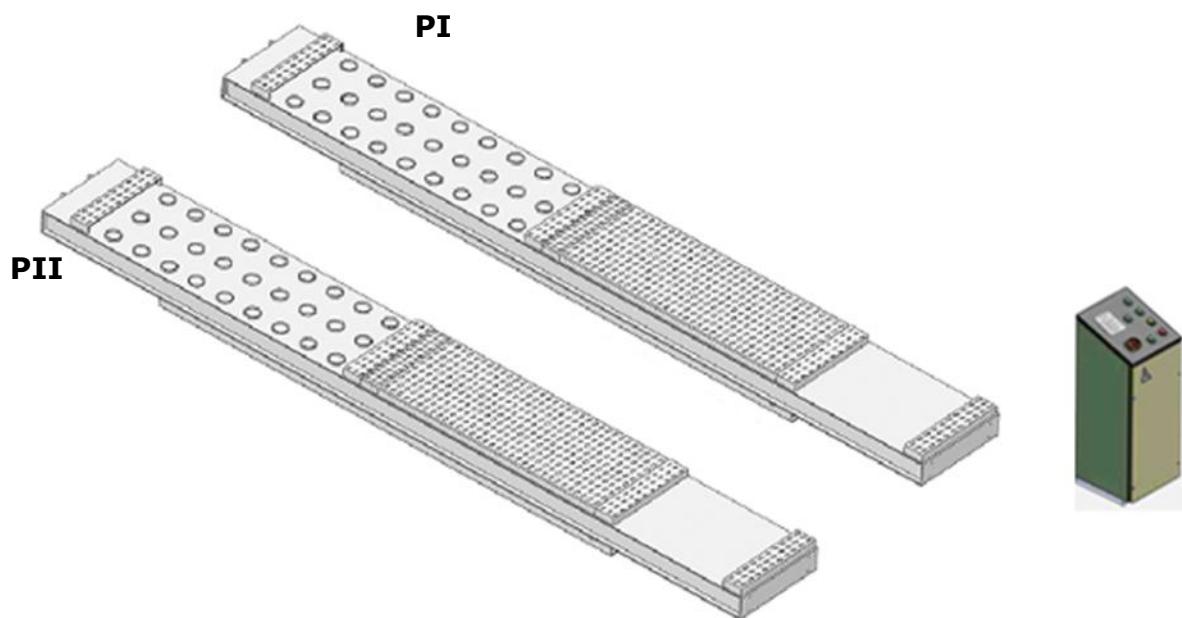


**Fig. 12**

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

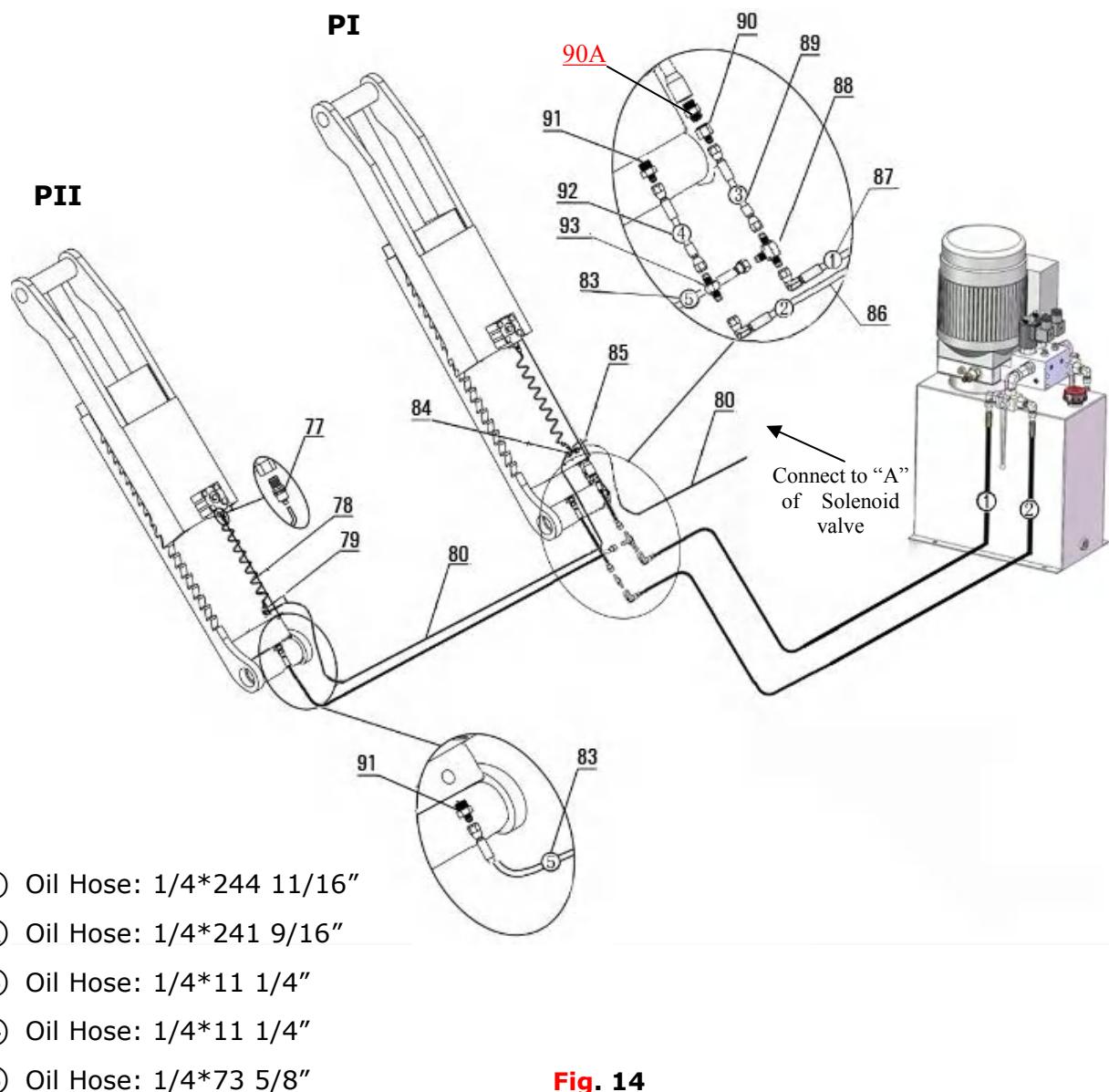
##### 1. Select a location and lay out the lift according to step **A** (**See Fig. 13**).

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

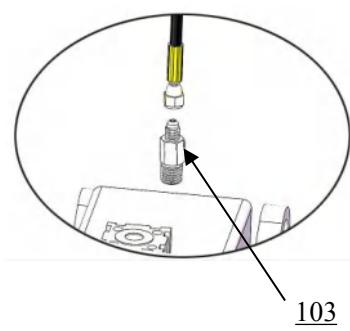


**Fig. 13**

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



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



- ⑥ Oil hose 1/4\*216 9/16"
- ⑦ Oil hose 1/4\*216 9/16"
- ⑧ Oil hose 1/4\*216 9/16"
- ⑨ Oil hose 1/4\*267 3/4"
- ⑩ Oil hose 1/4\*210 5/8"

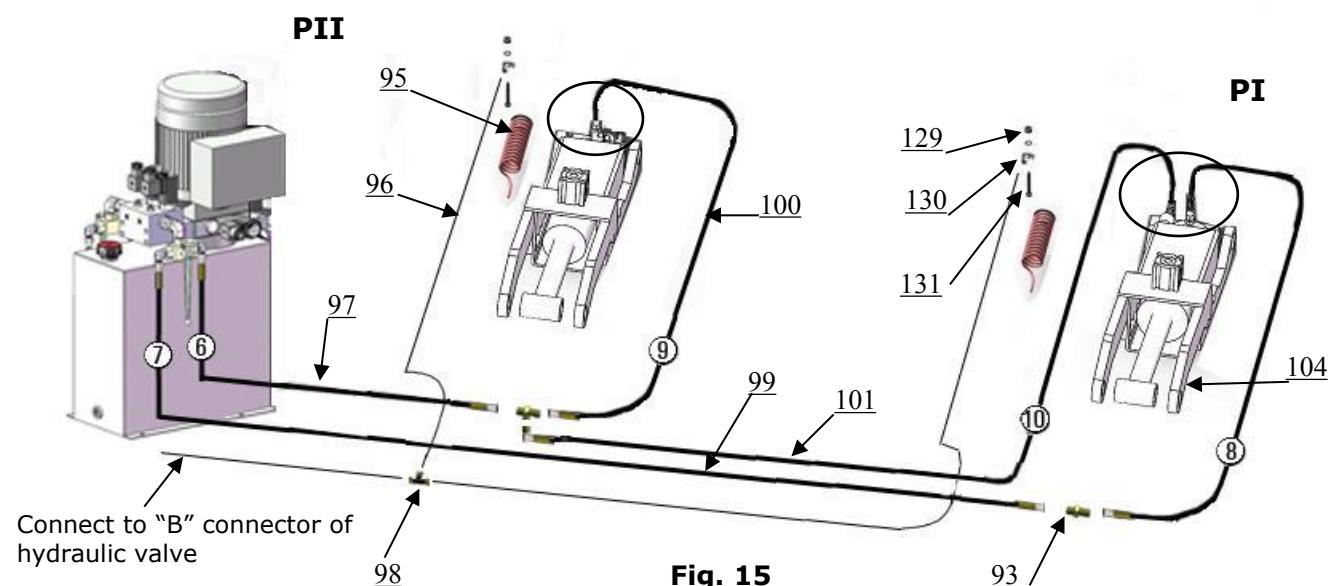
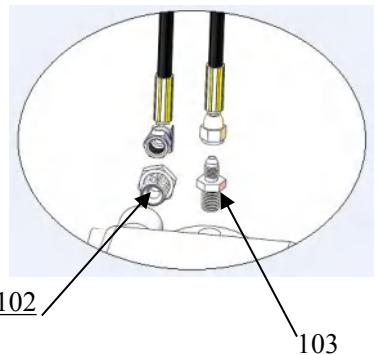
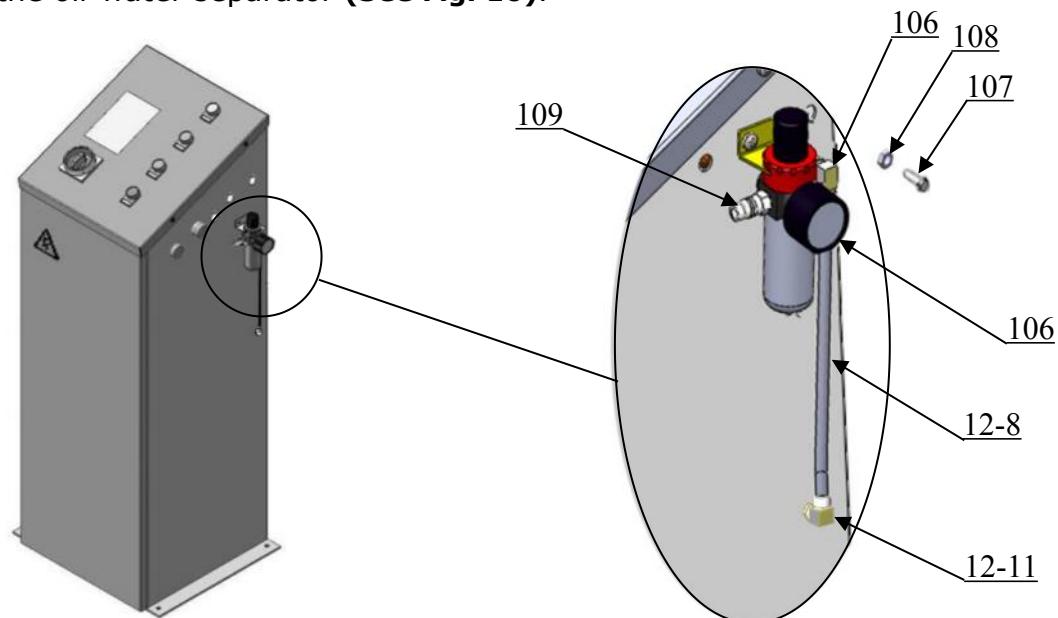


Fig. 15

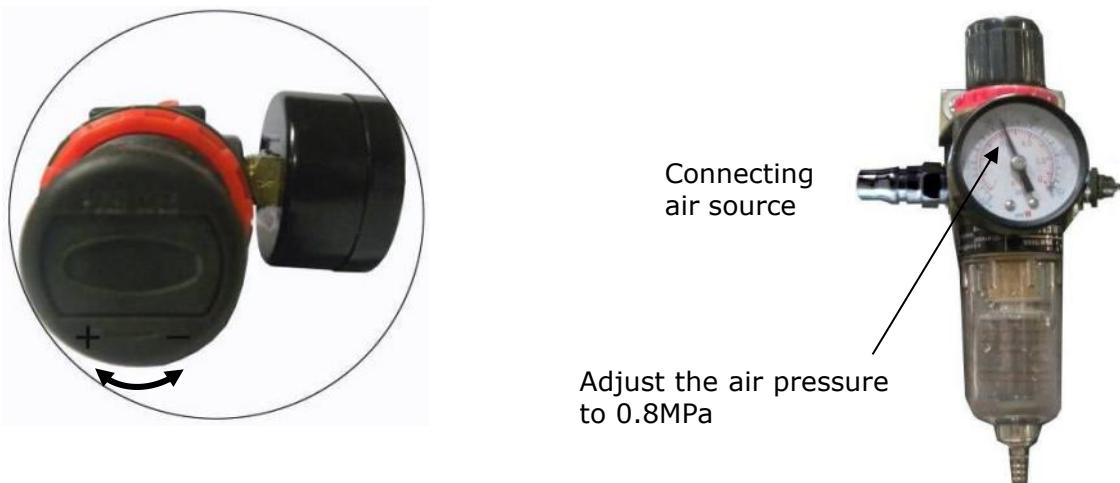
#### 4. Install the oil-water separator (See Fig. 16).



**Fig. 16**

Connect the air source by the oil-water separator

5. Connecting the air source (air pressure  $5\text{kg}/\text{cm}^2$ -  $8\text{kg}/\text{cm}^2$  ), adjust the air pressure to  $0.8\text{MPa}$  (**See Fig. 17**).



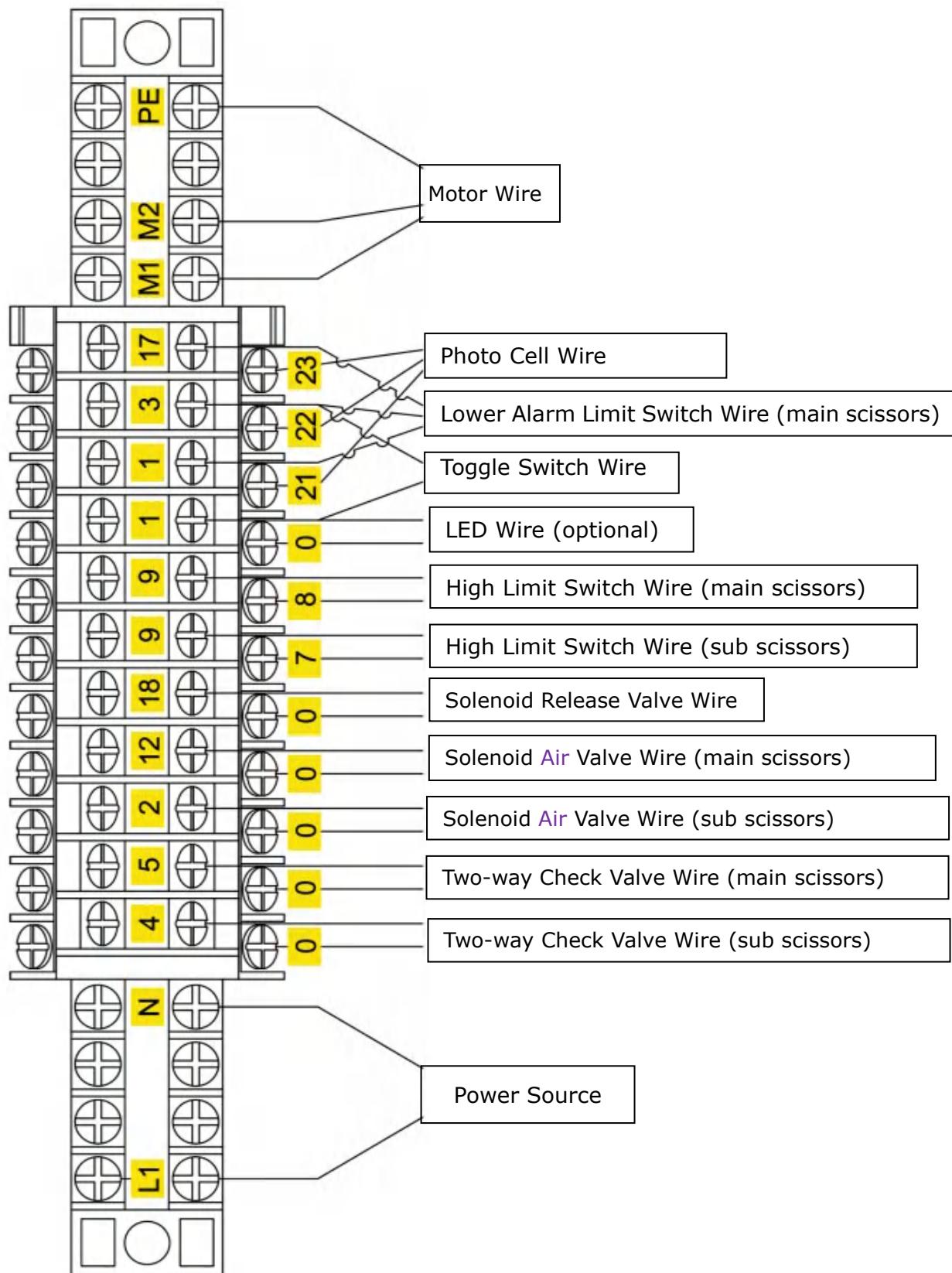
Clockwise to increase the air pressure  
Counter-clockwise to reduce the air pressure  
Adjust the air pressure to  $0.8\text{MPa}$

**Fig. 17**

## D. Install electric system

### 1. Wire connection of hydraulic power unit (220V)

1.1 Connect the power wire and limit switch wire according to the wiring diagram (See **Fig. 18**)

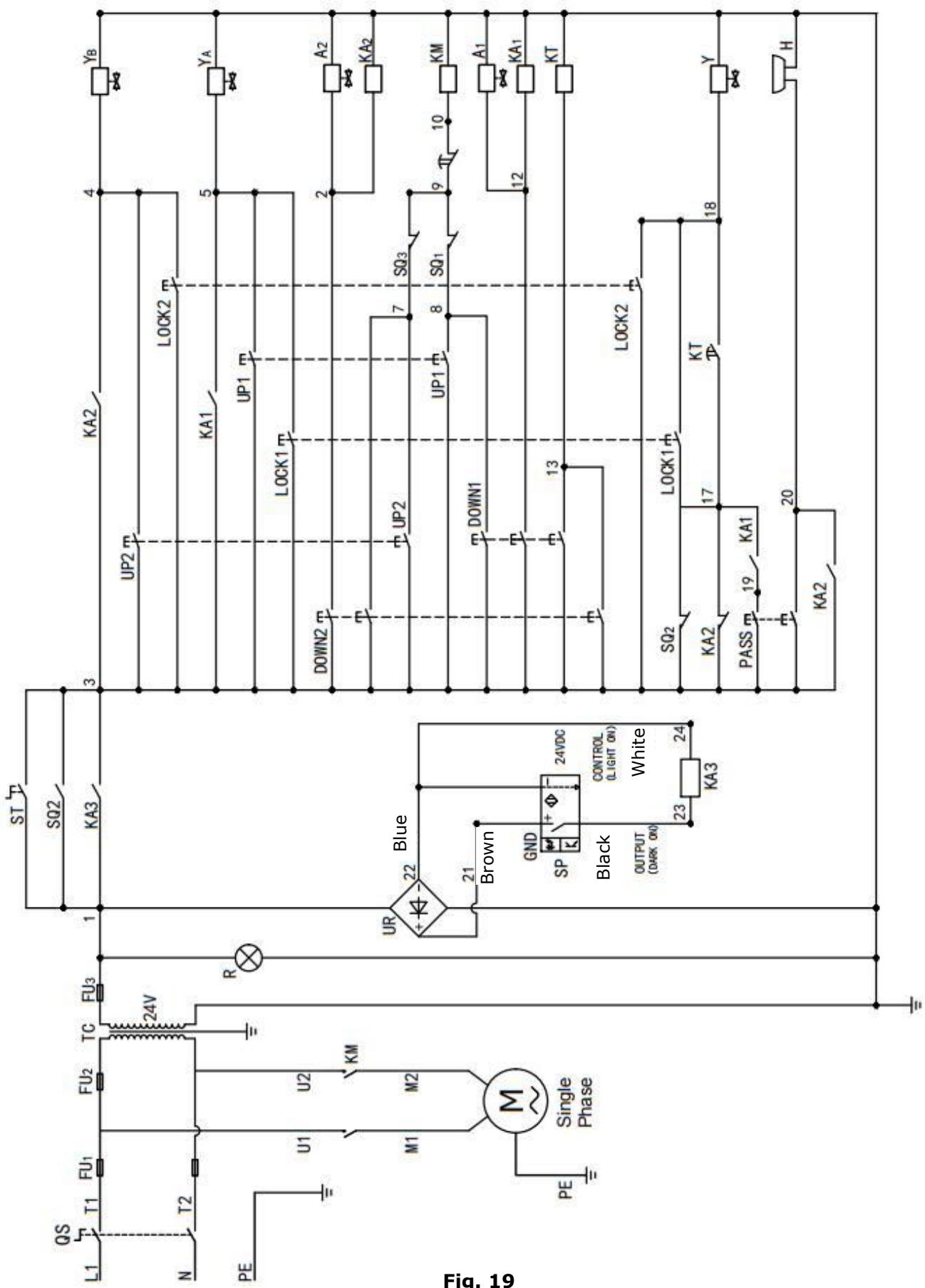


**Fig. 18**

## 220V Electric Component

Item	Name	Code	Specification	Item	Name	Code	Specification
1	Power switch	QS	25A	16	Two-way check solenoid valve(main scissor)	YA	AC24V
2	Breaker	FU1	2P	17	Two-way check solenoid valve(sub scissor)	YB	AC24V
3	Breaker	FU2	1P	18	Air solenoid valve	A1 A2	AC24V
4	Breaker	FU3	1P	19	Solenoid release valve	Y	AC24V
5	AC contactor	KM	16A/AC24V	20	Push button	UP1	Triple
6	Motor	M	Single Phase	21	Push button	UP2	Duplex
7	Transformer	TC	24VAC	22	Push button	Lock1	Triple
8	Indicator light	R	24V White	23	Push button	Lock2	Duplex
9	Lower Alarm Button	Pass	Duplex	24	Push button	Down1	Triple
10	Buzzer	H	AC24V	25	Push button	Down2	Duplex
11	Rectifier bridge	UR	KBPC10-10	26	High limit switch for main scissor	SQ1	8108(10A)
12	Photo cell device	SP	DC24V	27	Low limit switch for sub scissor	SQ2	8108(10A)
13	Intermediate relay	KA3	DC24V	28	Limit switch	SQ3	8104(10A)
14	Intermediate relay	KA1 KA2	AC24V	29	Toggle Switch	ST	
15	Time relay	KT	AC24V				

2.2 Circuit Diagram (See Fig. 19).



## IV. Test Run

### A. Fill oil to cylinder and Synchronous adjustment

1. Fill reservoir with Hydraulic Oil (**Note: In consideration of power unit's durability, please use Hydraulic Oil 46#**).
2. Turn on the power, push the button **UP**, and check the rotated direction of the motor. (Only for 3 phase motor). Shut off power and exchange the phase connection if the motor rotated direction is wrong.

### B. Synchronous adjustment

1. Remove the protective cover of photo cell.

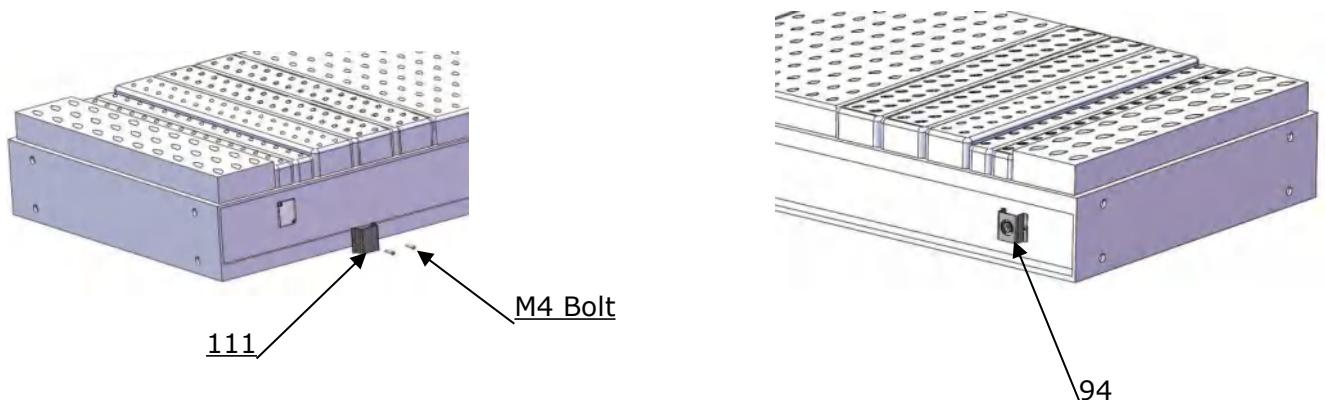


Fig 20

2. Turn the toggle switch to "ON".

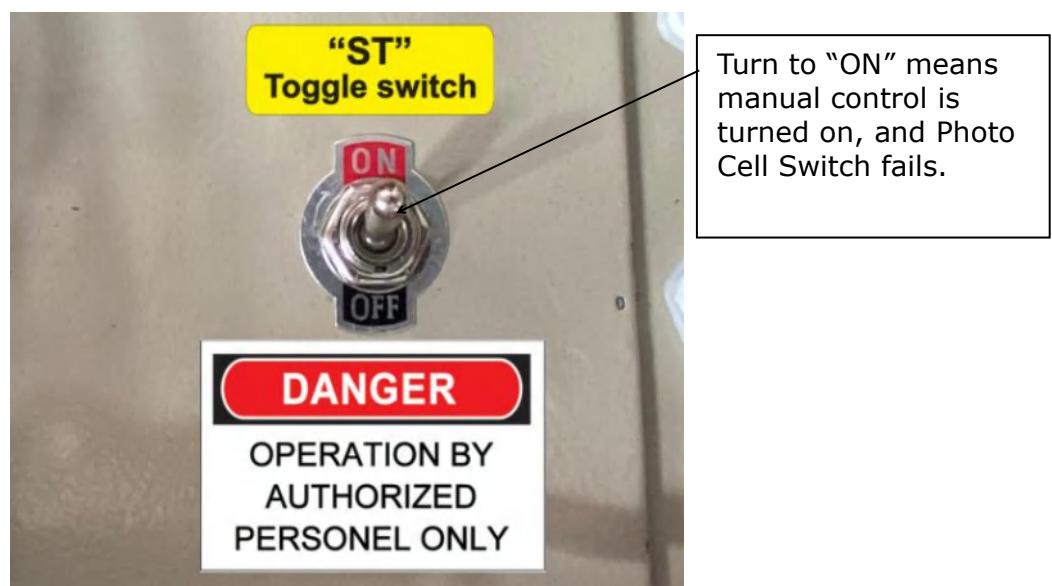
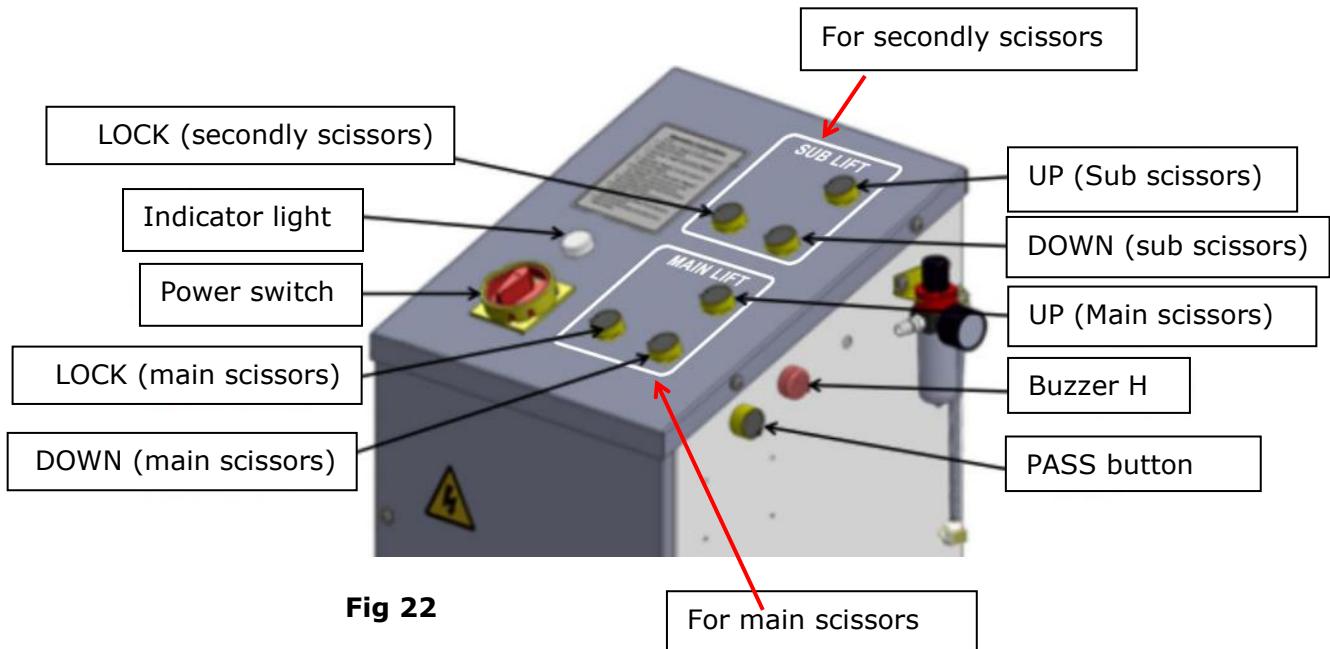


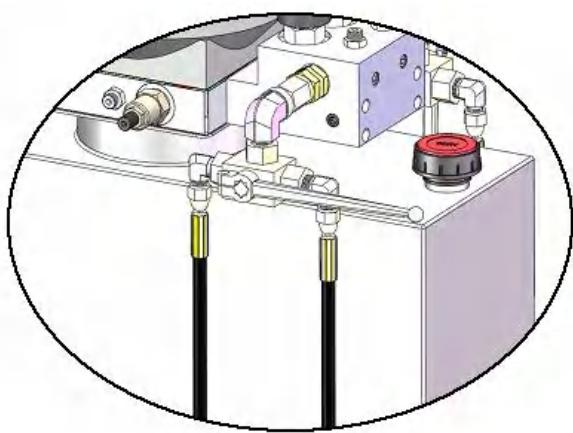
Fig 21

3. Synchronous adjustment of main scissors (Lower both platforms to the lowest position).

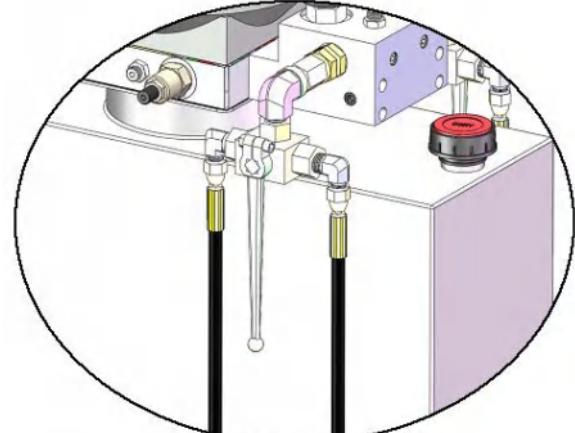
- Turn the Two-way valve to oil filling position (See Fig.23), push button **UP** for main scissors and fill oil to the secondly cylinder until it full. Then hold down the button **DOWN** and **PASS** of main scissors for 5 seconds to bleed the air, with Buzzer sound and bleeding sound from oil tank. Repeat this step 2-3 times until no air in the hydraulic system (normally repeat two times the air will be bleed off).
- Quickly click button **UP** until the platforms just to be lifted up, then stop.
- Turn the Two-way valve to normal working position (See 24), push button **UP** for main scissors to rise the lift. Check if both platforms are at the same height, if not, reply Step a and b, till the two safety devices can be locked or released at the same time.



**Fig 22**



Oil Filling Position



Normal Working Position

**Fig. 23**

**Fig. 24**

4. Synchronous adjustment of sub scissors (Lower both platforms to the lowest position).

- Turn the Two-way valve to oil filling position (See Fig. 26), push button **UP** for sub scissors and fill oil to the secondly cylinder until full, and then hold down the button **DOWN** and **PASS** of sub scissors for 5 seconds to bleed the air, with Buzzer sound and bleeding sound from oil tank. Repeat this step 2-3 times until no air in the hydraulic system (normally repeat two time the air will be bleed off).
- Quickly click button **UP** until the platforms just to be lifted up, then stop.
- Turn the Two-way valve to normal working position (See Fig. 27), push button **UP** for sub scissors to rise the lift, check if both platforms are at the same height, if not, reply Step a and b, till the two safety devices can be locked or released at the same time.

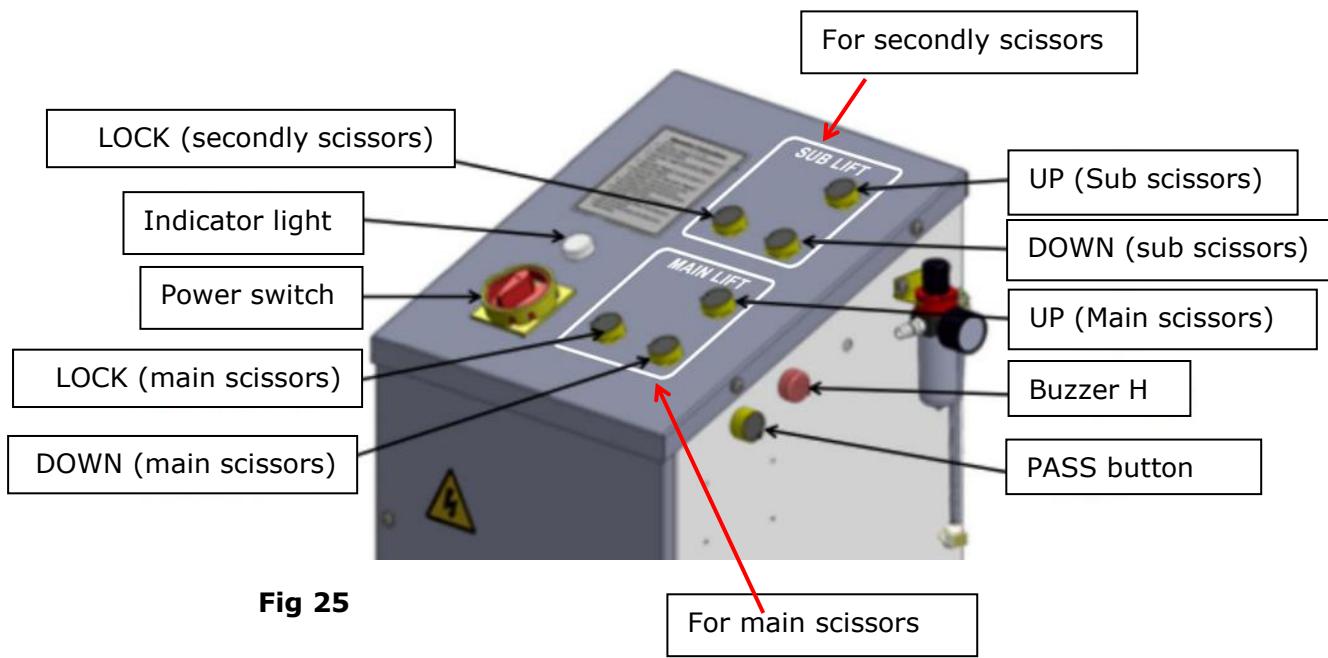
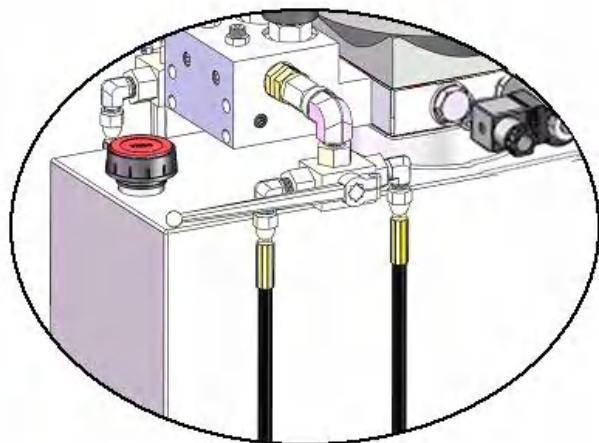
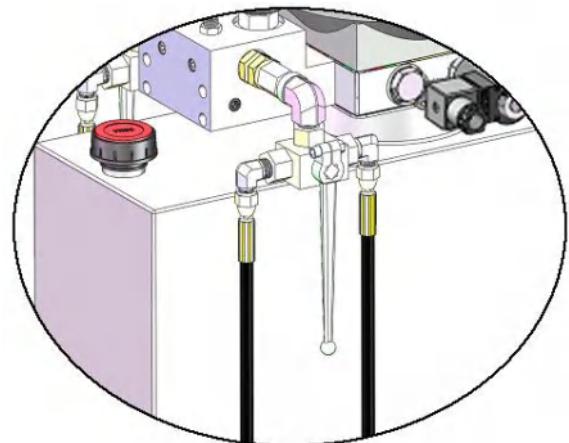


Fig 25



Oil Filling Position

Fig.26



Normal Working Position

Fig. 27

5. Turn off toggle switch after Synchronization, turn the toggle switch to "OFF", the photo cell device is turned on.

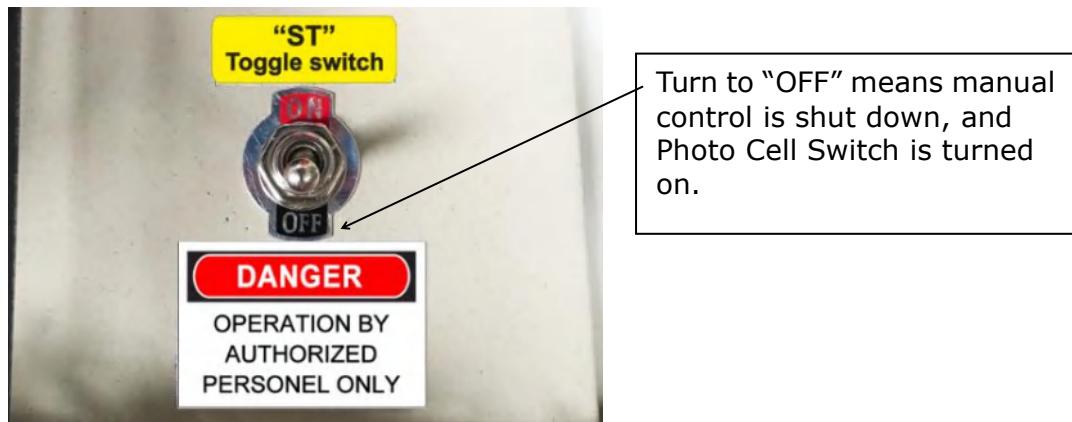


Fig.28

**Remarks:** When the lift in normal working and platform P1 and P2 become not leveling, the photo cell device protection effected, then power off. Open the panel of the control cabinet, turn the toggle switch to ON (see fig 21), power on. Reply the above synchronous adjustment again. Then turn the toggle switch to "OFF". (see fig.28)

### C. Install anchor bolts.

1. Raise the lift to 1000mm then drill holes to install the anchor bolts (See Fig.29)

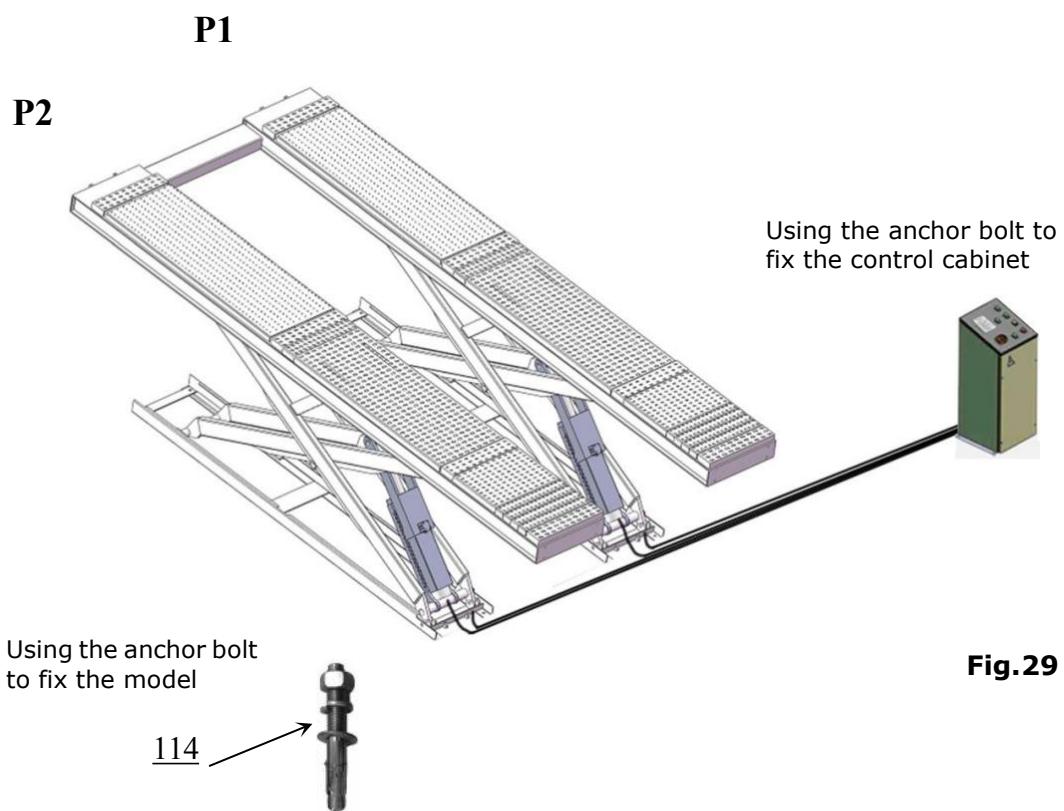
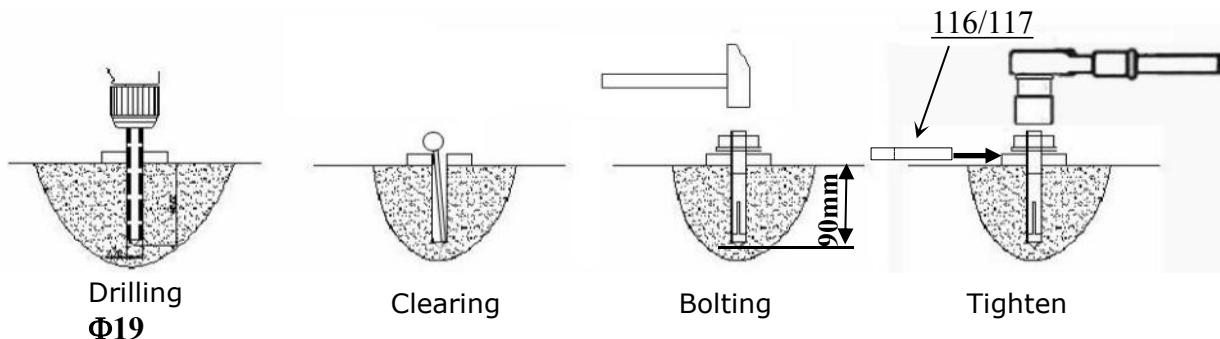


Fig.29

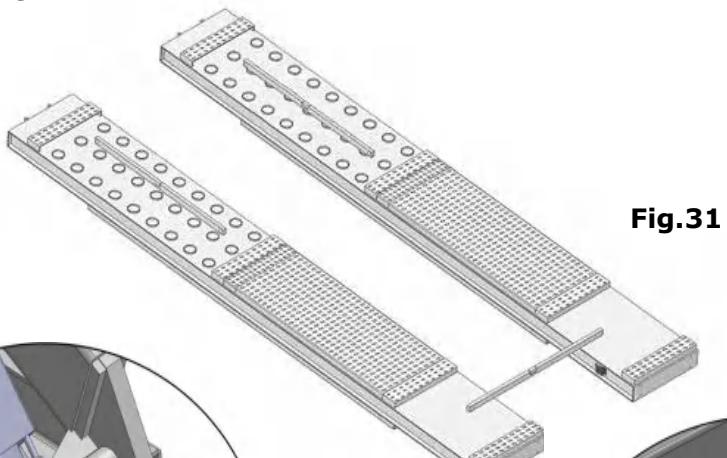
Drilling the hole for the anchor bolt with the rotary hammer drill, type the anchor bolt into the ground.



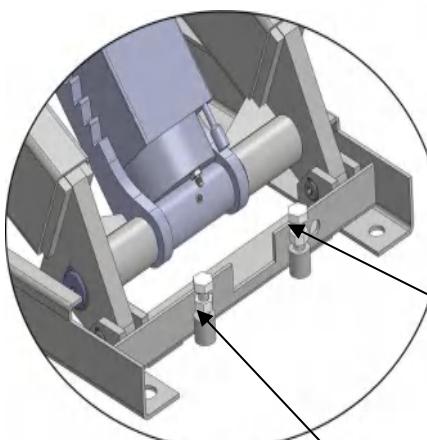
**Anchor bolts for the lift: Use  $\Phi 19$  driller to drill hole**

**Fig. 30**

**D. Check by level bar and adjust the lower leveling bolts(See Fig.34), 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.35) after it touch the Lower leveling bolts when lower to the lowest position. Then Tighten nut by wrench.**



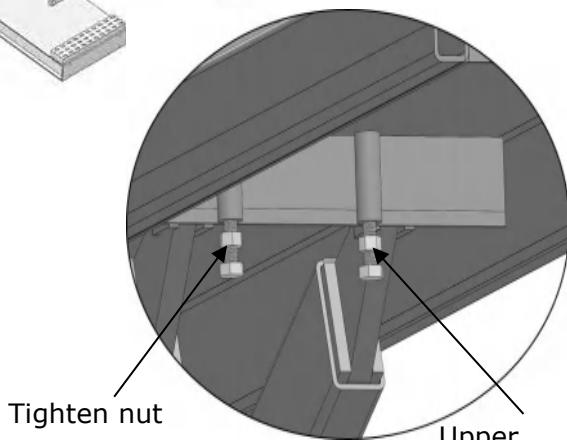
**Fig.31**



**Fig. 32**

Lower leveling bolts

Tighten nut



**Fig. 33**

Upper leveling bolts

Tighten nut

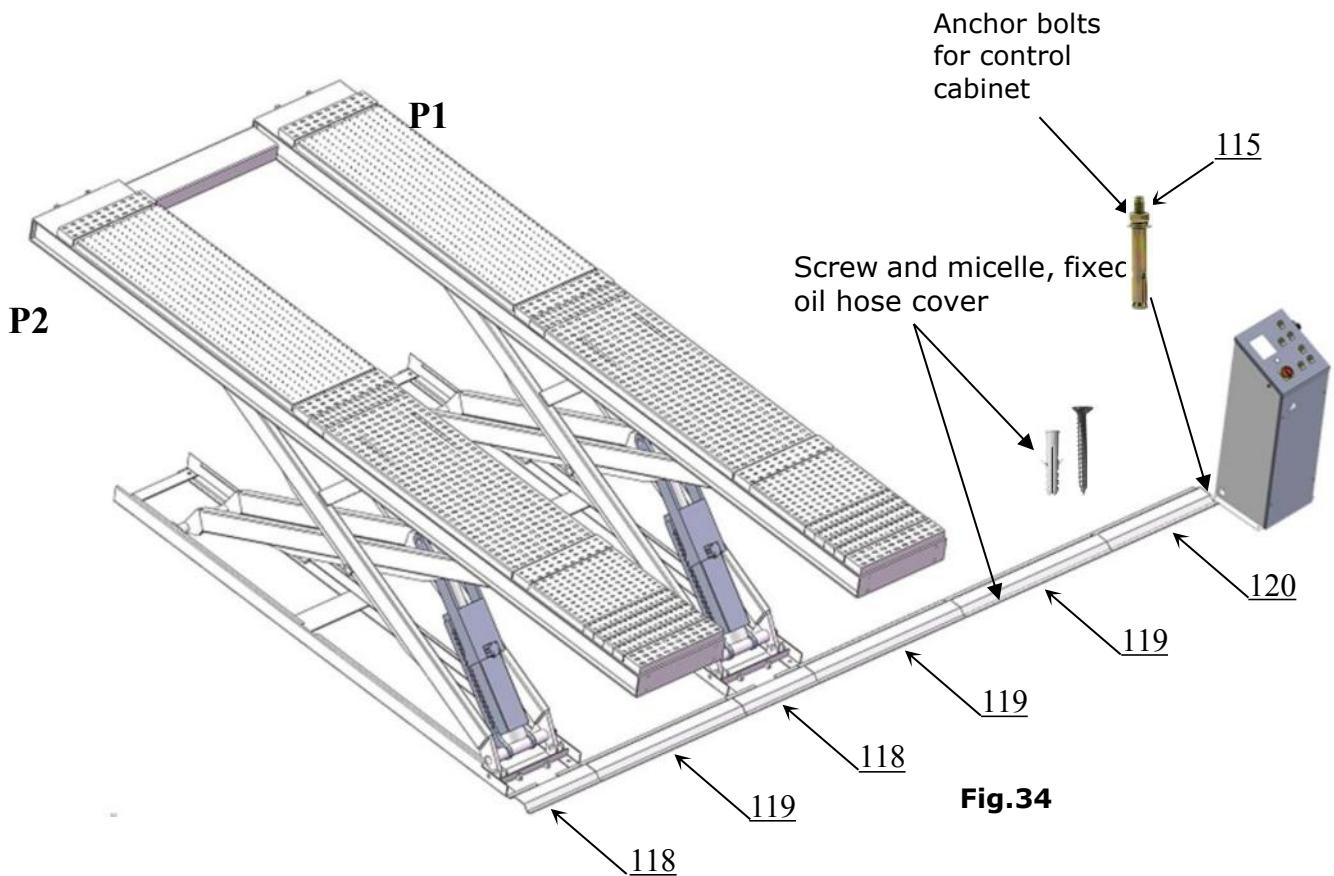
Tighten the anchor bolts with spanner after leveling. (see fig 32)

**Note: The tightening torque for the anchor bolt is 150N.m.**

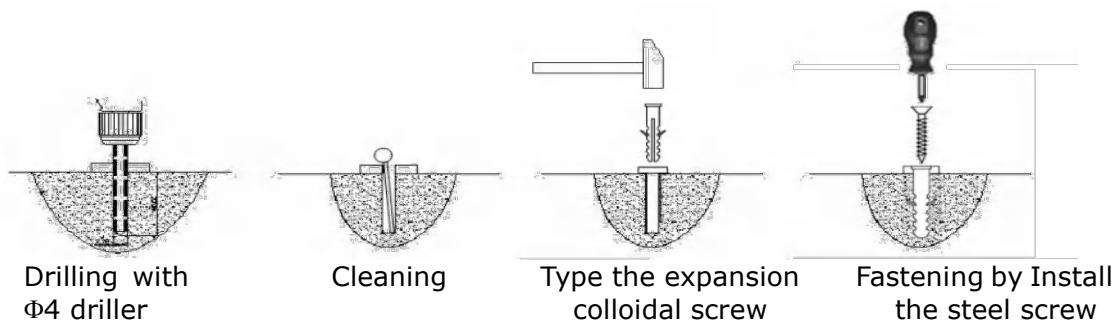
**Tap anchor bolts into the ground at least 90mm deep.**

**E. Install oil hose cover (Only for In-ground installation).**

a. Tidy up the oil hose and air line, covering the oil hose (See Fig. 34).



b. Install bolt of oil hose cover (See Fig. 35).

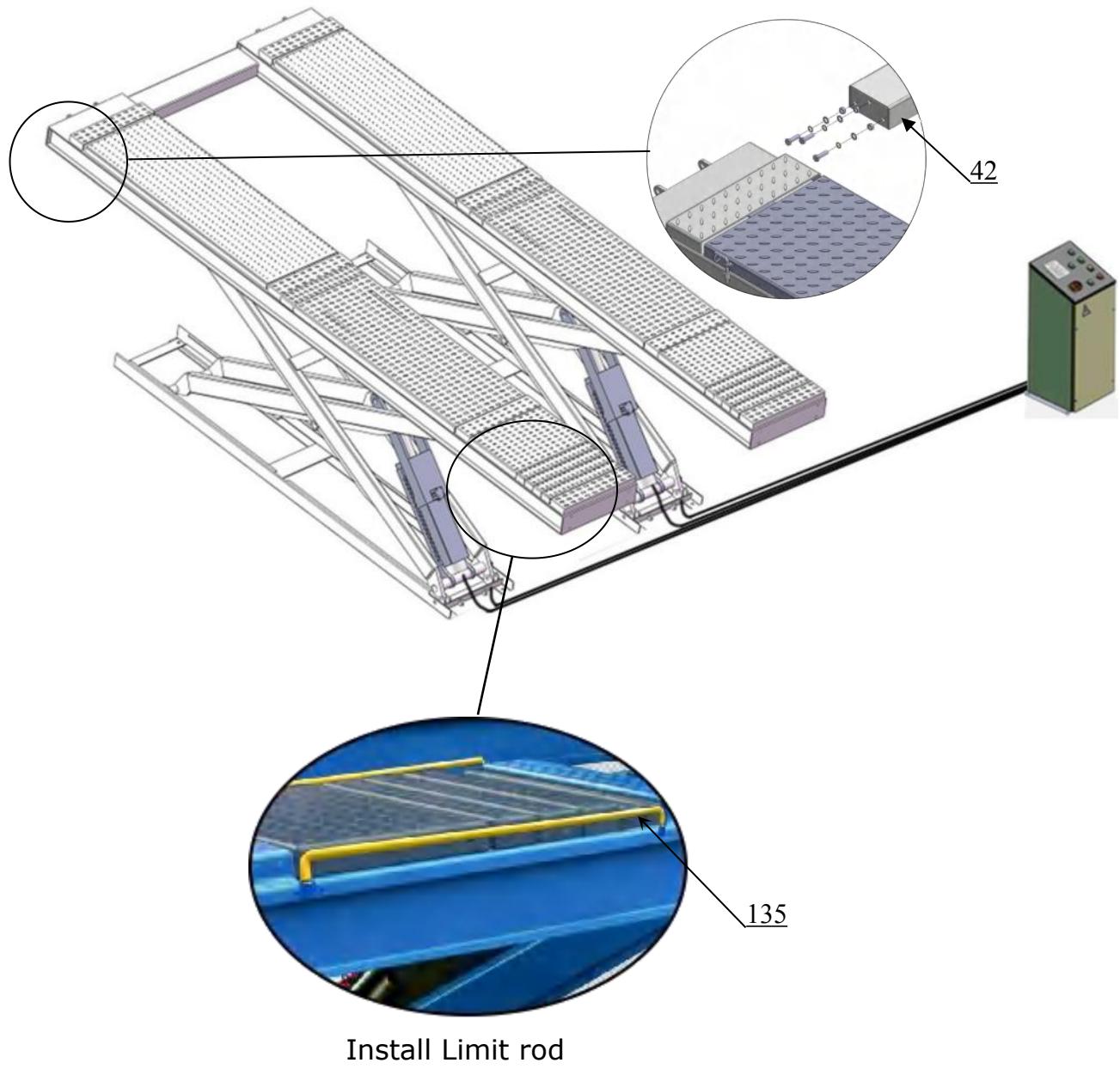


**Fig.35**

c. Place the control cabinet onto the ground, drill holes for anchor bolts

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

**F. Install platform connecting bar, limit rod of turnplate adjusting block . (fig 36)**



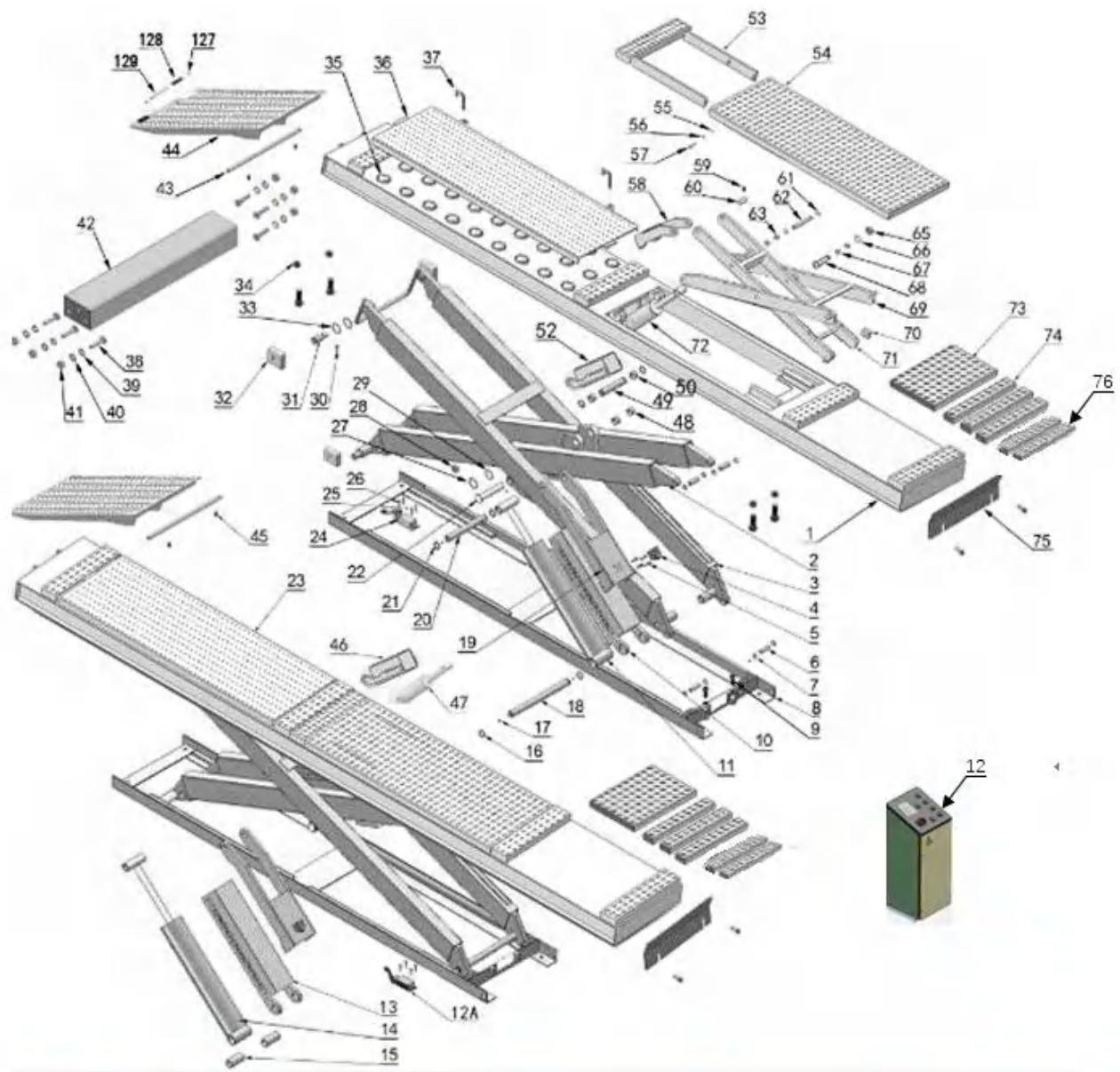
**Fig.36**

**G. Test Run**

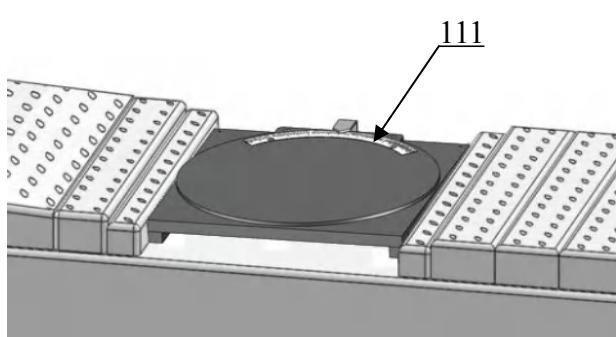
Check the limit switch, the hose and air lines connection. If everything is no problem then do test run. The lift must be tested and checked carefully before in use.

## V. EXPLODED VIEW

### Model: DX-12A



**Turn plate optional parts (need one piece  
35mm adjustment block on both sides  
when install the turn plate)**



**Fig. 37**

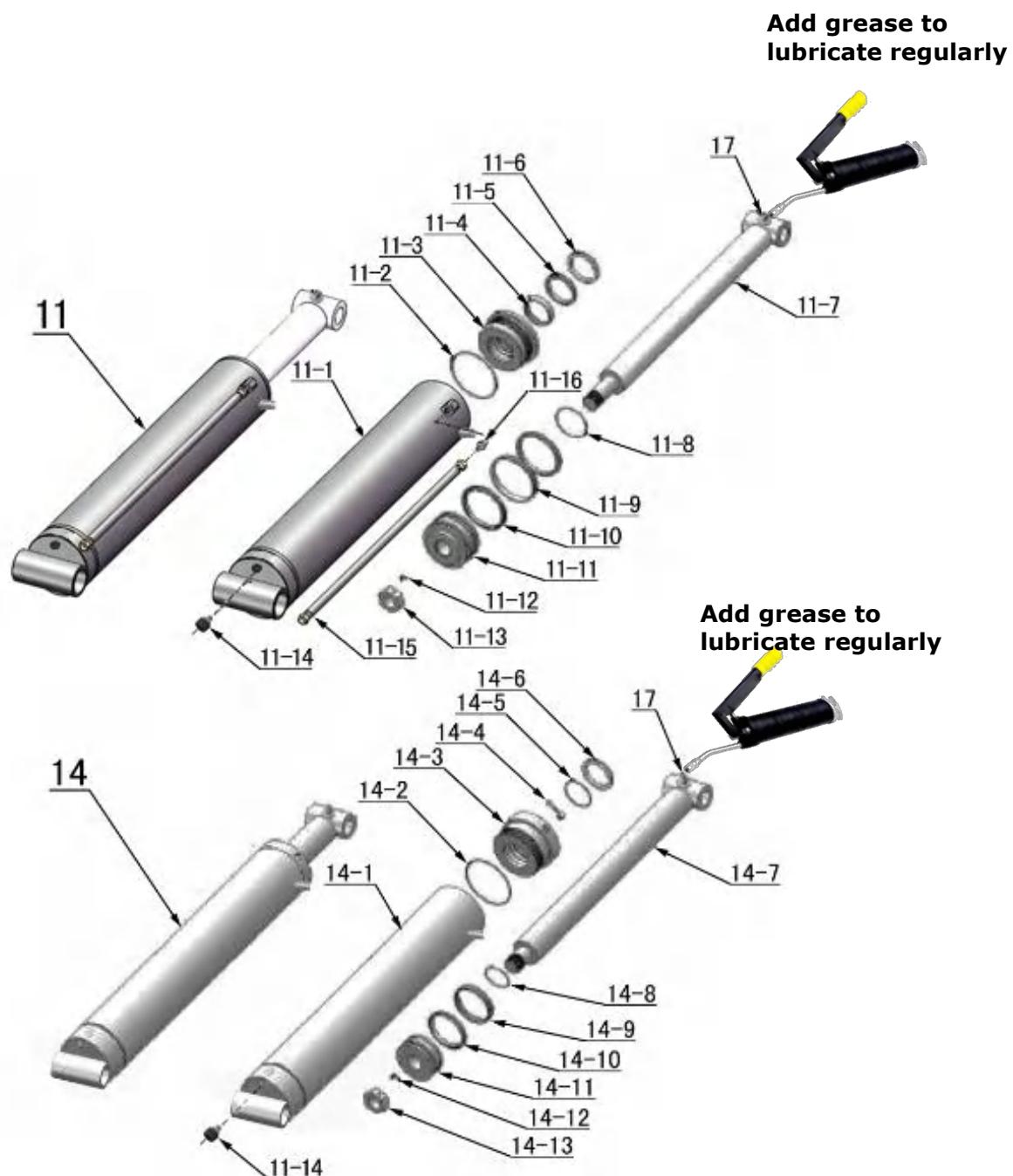
## Parts list for DX-12A

Item	Part No.	Description	QTY.
1	11580705	Power-side platform	1
2	11580091	Inner Scissors(Main scissor)	2
3	11580092	Outer Scissors(Main scissor)	2
4	10520011	Air Cylinder	4
5	10420153	Round Head Bolt M6*20	16
6	11580010	Pin for scissor	8
7	10206032	Clip ring φ25	16
8	11580034	Base frame	2
9	10510012	Hex bolt M20*75	12
10	11580703	Main Safety Lock Tube	4
11	10580061	Master Cylinder	1
12	10580125	Single Phase Control Cabinet (Without power unit)	1
13	10580109	Lower Limit Switch Assy.	1
14	10580062	Slave Cylinder	1
15	11510022	Spacer bush for cylinder	4
15A	11580071	Spacer for safety lock tube	2
16	10520020	Clip Ring φ50	4
17	10620064	Grease Fitting	32
18	11580009	Connecting Shaft For Main Cylinder	2
19	11580708	Safety Lock support plate	2
20	11610005A	Connecting Pins for Cylinder	2
21	10610098	Clip Ring φ35	8
22	11580011	Connecting pin for inner and outer scissors	4
23	11580709	Off-side Platform	1
24	10580108	High Limit Switch Assy.	1
25	10620109	Round Head Bolt M4*18	4
26	10420164	Round Head Bolt M4*30	4
27	10530023	Flat Washer Ø44*Ø35.5*2	4
28	10610019	Self-locking nut M30*3.5	4
29	10610108	Flat Washer φ44*φ30.5*2	4
30	10520108	Socket head cap bolt M8*10	8
31	11580012	Connecting pin	4
32	10530012	Slider	8
33	10420023A	Flat Washer φ36*φ65*2.8	8
34	10420175A	Hex nut	12
35	10420157	Steel Ball Set	60
36	11570003	Slip Plate	2
37	11520037	Pin for Slip Plate	4
38	10420136	Hex bolt	10
39	10206006	Socket bolt φ12	6
40	10420026	Lock washer φ12	6
41	10206023B	Hex Nut M12	6
42	11580031	Runway Connecting Bar	1
43	11510006	Pin for connecting plate	2
44	11520005A	Drive-in Ramp	2
45	10201005	Cotter pin 4*50	4
46	11580029	Safety device(salve)	1

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>QTY.</b>
47	10510064	Slave cylinder for slave scissors	1
48	10530042	Bronze bush $\Phi 41.3 * \Phi 35.1 * 28$	4
49	11580016	Connecting pin for cylinder bottom cap	2
50	10420132A	Bronze bush $\Phi 41.2 * \Phi 35.1 * 20$	4
51	11510018	Guild Ramp (On-ground)	2
52	11580028	Safety device (Main)	1
53	11580030-01	Extend platform	2
54	11580024-01	Platform for secondly scissors	2
55	10209033	Flat Washer $\Phi 8$	2
56	10209034	Lock washer $\Phi 8$	2
57	10201002	Hex bolt M8*16	2
58	11580027	Safety support plate for secondly scissors	2
59	10580005	Socket bolt M6*10	8
60	11580015	Connecting pin	8
61	10610008	Clip Ring $\varphi 30$	4
62	11580013	Connecting pin for piston rod	2
63	10620141	Bronze bush $\Phi 36 * \Phi 30.1 * 24$	4
64	10580503	Parts box(On-ground)	1
65	10620022	Slotted self-locking nut M24*2.5	4
66	10640109	Flat Washer $\varphi 44 * \varphi 25.5 * 2$	4
67	10203004A	Bronze bush $\Phi 31 * \Phi 25.1 * 21$	16
68	11580014	Main connecting pin	4
69	11580707-01	Outer scissors for secondly scissors	2
70	10580103	Slider (2 15/16" * 2 1/16" * 1 3/16")	8
71	11580706	Inner scissors for sub scissors	2
72	10510063	Master cylinder for sub scissors	1
73	11580089	Turnplate cover	2
74	11580090	Turnplate adjusting block	6
75	11520004A	Tire stop plate	2
76	11580097	Turnplate adjusting block 1	4
77	10580048	90° Fitting	4
78	10520065	Spring air line	2
79	10520069	90° air fitting	3
80	10580001	Black air line	1
81	10610097	Hex nut M3	5
82	10610101	Flat Washer $\varnothing 3$	5
83	10510051	⑤ Oil hose assy. $1/4 * 73 5/8"$	1
84	10420124	T fitting	2
85	10610099	Round Head Bolt M3*20	5
86	10510050	② Oil hose assy. $1/4 * 241 9/16"$	1
87	10510049	① Oil hose assy. $1/4 * 244 11/16"$	1
88	10211016	T fitting $1/4\text{JIC}(M) * 1/4\text{JIC}(M) * 1/4\text{JIC}(M)$	2
89	10510052	③ Oil hose assy. $1/4 * 11 1/4"$	1
90	1002185003	Straight fitting $3/8\text{NPT}(F) * 1/4\text{JIC}(M)$	1
90A	10217147	Straight fitting $3/8\text{NPT}(M) * 3/8\text{JIC}(M)$	1
91	10510023	Straight fitting $G3/8-19(M) * 1/4\text{JIC}(M)$	2
92	10510052	④ Oil hose assy. $1/4 * 11 1/4"$	1
93	10620079	Straight fitting $1/4\text{JIC}(M) * 1/4\text{JIC}(M)$	2
95	10580007	Spring air line	2

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>QTY.</b>
96	10580006	Air line $\Phi 6 * \Phi 4 * 478$ 3/8"	1
97	10580003	⑥ Oil hose assy. 1/4*216 9/16"	1
98	10420124	T Fitting	1
99	10580003	⑦ Oil hose assy. 1/4*216 9/16"	1
100	10580123	⑨ Oil hose assy. 1/4*267 3/4"	1
101	10580124	⑩ Oil hose assy. 1/4*210 5/8"	1
102	10420119	Straight fitting 3/8NPT(M)*1/4JIC(M)	1
103	10209064	Straight fitting 1/4NPT(M)*1/4JIC(M)	2
104	10580003	⑧ Oil hose assy. 1/4*216 9/16"	1
105	10420145	Oil-water separator	1
106	10420076	90° Fitting for air line	2
107	10680005	Round Head Bolt M6*10	6
108	10420018	Self-locking nut M6	2
109	10420146	Straight fitting for air line	1
111	40101	Turnplate (Optional)	2
114	10209059	Anchor bolt 3/4*5-1/2	8
115	10620071	Anchor bolt M10*100	4
116	10201090	Shim (1mm)	20
117	10620065	Shim (2mm)	20
118	11580040	Oil hose cover L=20 1/2"	2
119	11540027	Oil hose cover L=41 3/4"	3
120	11540025	Oil hose cover L=29 1/2"	1
121	10620070	Rubber Screw $\varphi 6$ (On-ground)	36
122	10620069	Wood bolt M4*30 (On-ground)	36
123	11540029	Oil hose cover	1
124	10610070	Rubber pad	4
125	10620034	Rubber pad	4
126	10580502	Parts box (In-ground)	1
127	10209010	Clip ring	8
128	10610667	Roller for Drive-in ramp	4
129	11620043	Roller Pin for Drive-in ramp	4
130	11580741	Cover of Photo cell device	2
131	10580107	Photo cell device assy.	1
132	10580106	High Limit Switch Assy.(Sub Lift)	1
133	11440090	Limit rod of turnplate adjusting blocks	4
200		Power unit	1

## 1 MASTER SCISSORS CYLINDERS



**Fig. 38**

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>QTY</b>
11-1	11580078	Master Cylinder tube	1
11-2	10580066	O- Ring	1
11-3	11580079	Head Cap(Master)	1
11-4	10580069	Support Ring	1
11-5	10580065	Y- Ring	1
11-6	10580067	Dust Ring	1
11-7	11580080	Piston Rod (Master)	1
11-8	10520054	O- Ring	1
11-9	10580068	Support Ring	1
11-10	10580064	Y- Ring	2
11-11	11580081	Piston	1
11-12	10520049	Set Screw	1
11-13	10520047	Hex Nut (Master)	1
11-14	80206004A	Burst valve	2
11-15	1103316001A	Oil hose	1
11-16	10217147	Straight fitting 3/8NPT(M)*3/8JIC(M)	1
14-1	11580082	Slave Cylinder tube	1
14-2	10520053	O- Ring	1
14-3	11580083	Head Cap (Slave)	1
14-4	10201034	Bleeding Plug	2
14-5	10580070	O- Ring	1
14-6	10580067	Dust Ring	1
14-7	11580080	Piston Rod (Slave)	1
14-8	10520054	O- Ring	1
14-9	10520056	Support Ring	1
14-10	10520055	Y- Ring	1
14-11	11580084	Piston (Slave)	1
14-12	10520049	Set Screw	1
14-13	10520047	Hex Nut (Slave)	1
14-14	10530009	Burst valve	1

## 2 SLAVE SCISSORS CYLINDER

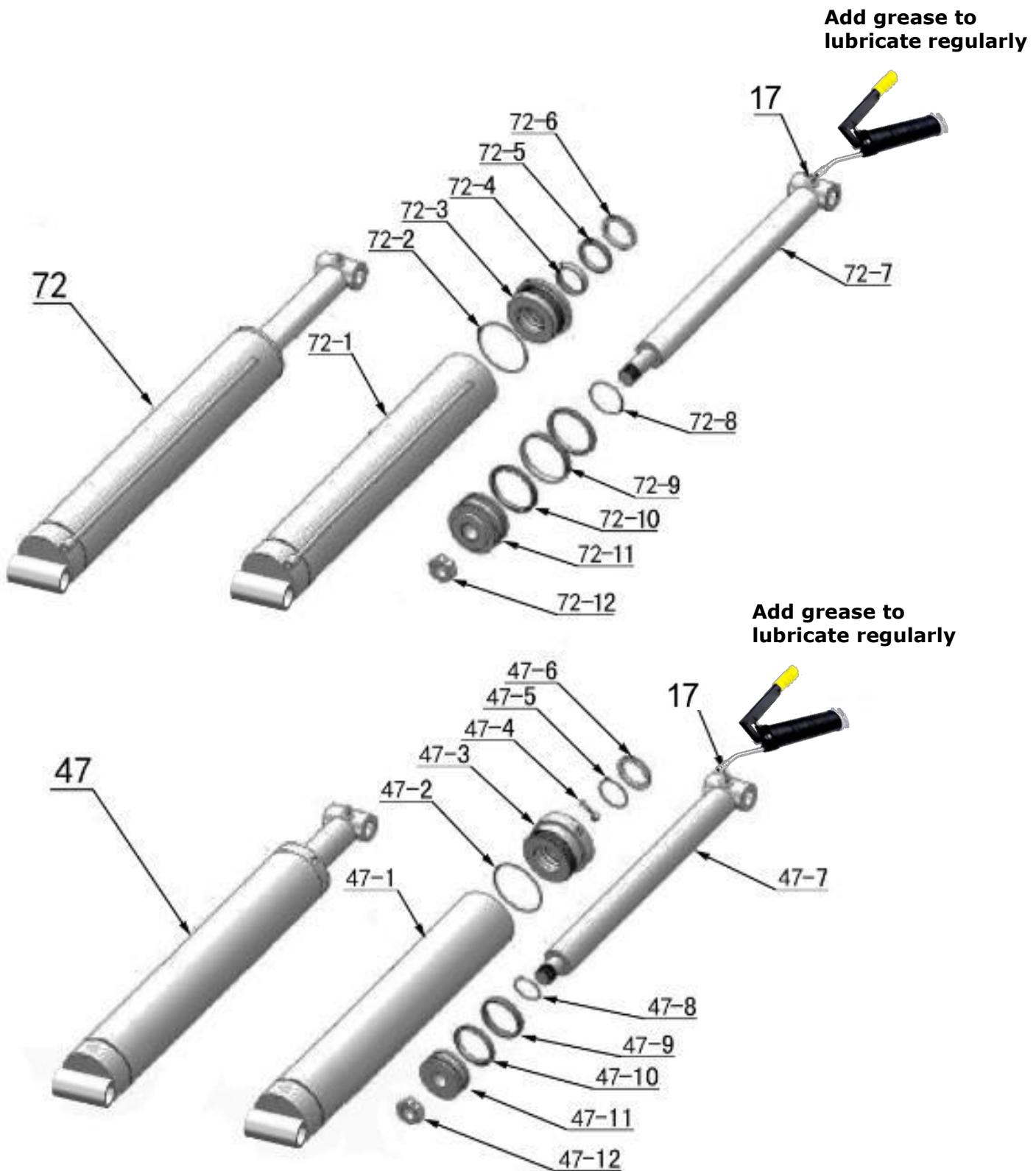
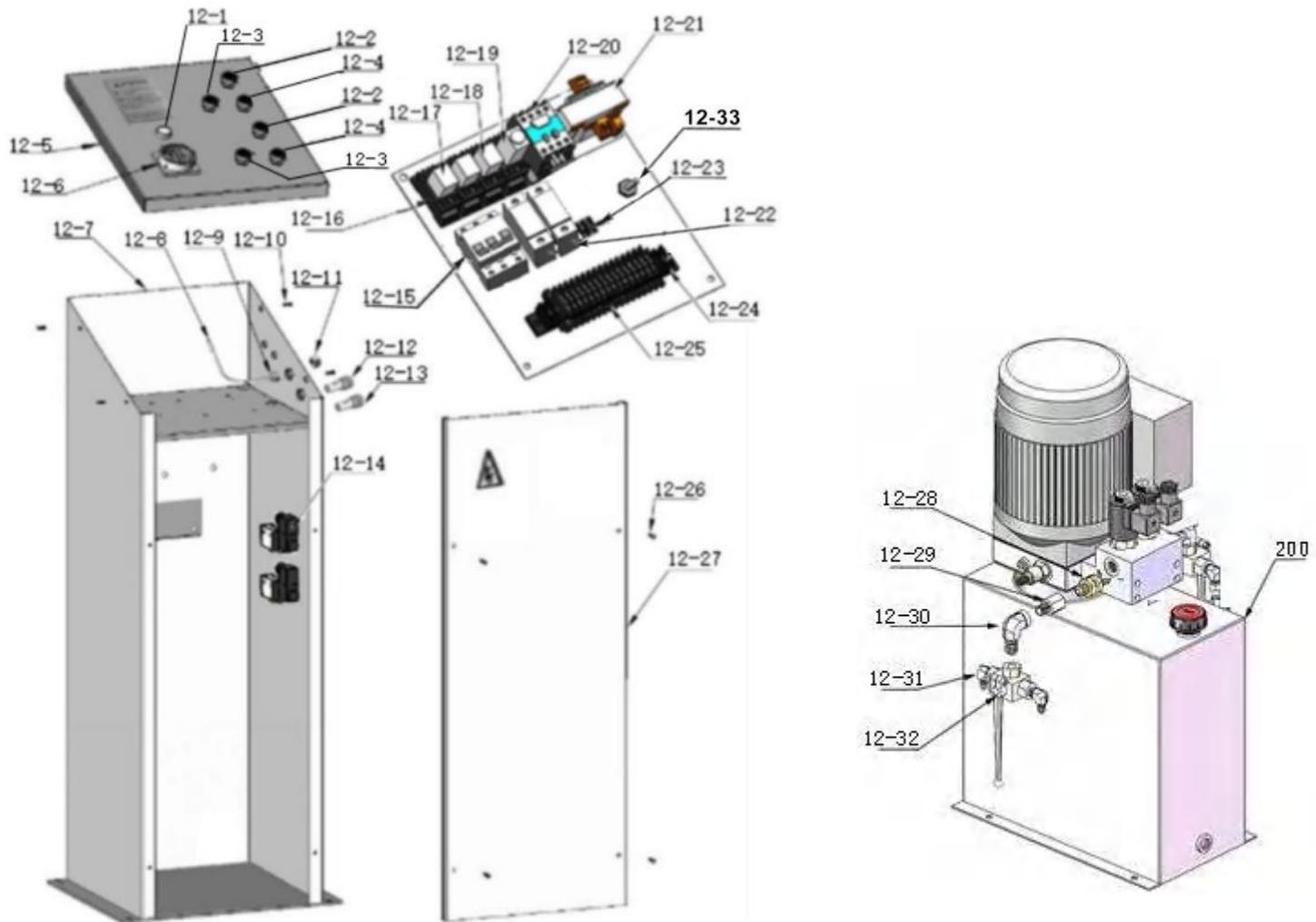


Fig. 39

<b>Parts for Cylinder of slave scissors</b>			
<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>QTY</b>
72-1	11580049	Master 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	10209078A	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 (Master)	1
72-12	10206071	Hex bolt	1
47-1	11580053	Slave 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 (Slave)	1
47-12	10206071	Hex nut	1

**3 CONTROL CABINET**  
**10580125 Single phase**



**Fig. 40**

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>QTY</b>
12-1	10201094	Power indicator	1
12-2	10420071	Button <b>UP</b>	2
12-3	10420071	Button <b>LOCK</b>	2
12-4	10420072	Button <b>DOWN</b>	2
12-5	52K001C	Control Panel	1
12-6	1004187002	Power Switch (QS) (Single phase)	1
12-7	52K007D	Cabinet Body	1
12-8	10420167C	Air Line	2
12-9	1061K110	Straight Fitting For Air Line	1
12-10	10209145A	Round Head Bolt	4
12-11	10420076	90° Fitting For Air Line	3
12-12	10420143	Buzzes	1
12-13	10420142	Lower alarm button	1
12-14	10420077	Air solenoid valve	2
12-15	10202046	Breaker 2P 25A (Single phase)	1
12-16	10420135	Base for time relay	4
12-17	10420141	Intermediate Relay(KA1,2)	2
12-18	41010492	Intermediate Relay(KA3)	1
12-19	10420083	Time relay(KT)	1
12-20	10420084A	AC contactor(KM)	1
12-21	10580114	Transformer(TC)	1
12-22	10202049	Breaker 1P	2
12-23	10580101	Rectifier bridge	1
12-24	10580112	Terminal strip	2
12-25	10580113	Double terminal	1
12-26	1052K056	Round head bolt	4
12-27	52K022	Front door	1
12-28	10440009	Straight Fitting	2
12-29	10630103	Transition fitting	1
12-30	1052K027	90° Fitting	2
12-31	10420097	90° Fitting	4
12-32	10680065	Two-way valve	2
12-33	10580100	Toggle Switch	1

#### 4.Illustration of hydraulic valve for power unit (220V/50HZ )

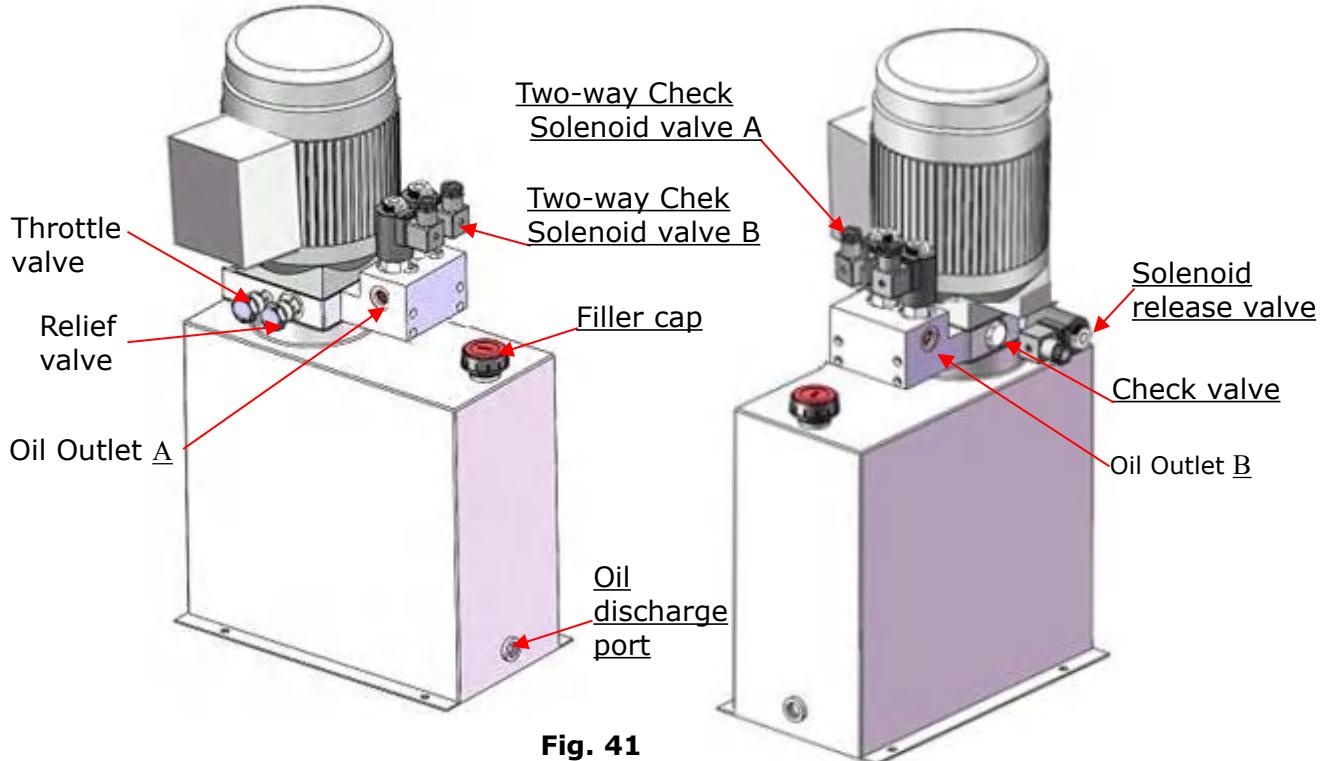


Fig. 41

## VI. OPERATION INSTRUCTIONS

### To lift vehicle

1. Keep clean 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

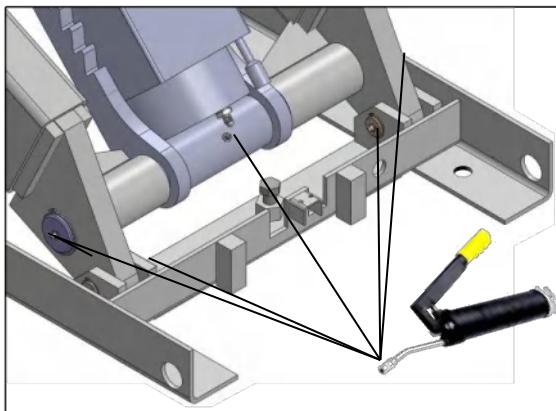
1. Be sure clear of around and under the lift, only leaving operator in lift area.
2. Push the button "**Down**", the lift is lowered continually and stopped at the height 600mm from ground. Keep feet clear off lift, push button "**DOWN**" while push the **Lowering Alarm Button(PASS)** at the side of 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

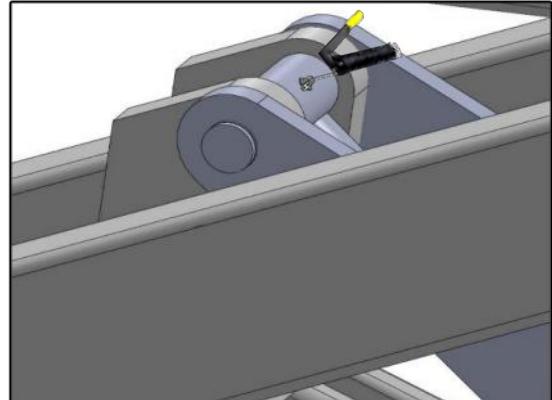
### Monthly:

1. Re-torque the anchor bolts to 150 Nm.
2. Lubricate all moving parts with lubricant (See. Fig.42-45)

**Each main scissor 12 positions, total 24; Each secondly scissor lift 4 positions, total 8.**



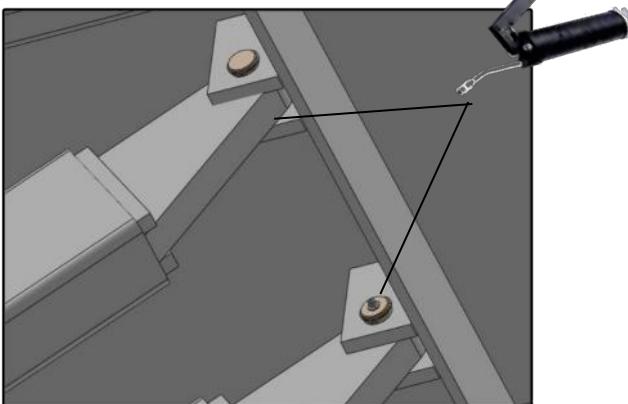
**For main cylinder connecting pin**



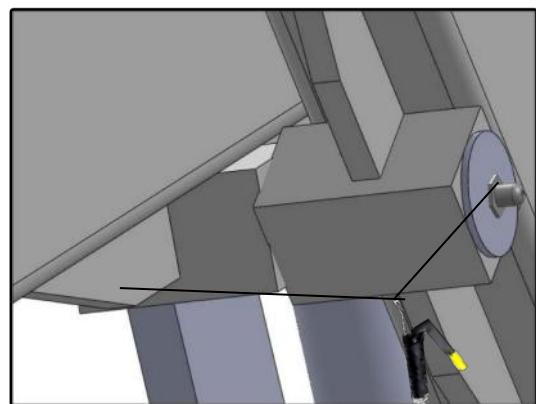
**For pin of piston rod**

**Fig.42**

**Fig.43**



**For pins of connecting platforms and scissors**



**For connecting pins of scissors**

**Fig.45**

**Fig. 44**

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. Star 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. CAR LIFT SAFETY TIPS**

Put this safety tips in a place where you can always alert the operator. Please reference to the lift manufacturer's manual for specific information about the lift.

1. Check the lift daily. If the machine breaks down or has damaged parts, do not operate, and use original equipment parts to repair.
2. **Do not** overload . The rated weight of the manufacturer design is indicated on the label of the lift.
3. Position control of the vehicle and operation of the lift can only be done by a trained and authorized person.
4. **Do not** lift a car with occupants inside. Keep the customers or bystanders away from the lift.
5. Keep the area around the lift free of obstacles, lubricating oil, grease, garbage and other debris for a long time.
6. Carefully drive the vehicle onto the lift and lifting up to the required height for operation. **Noted:** lift it high enough if you are working underneath, and make sure the safety devices are locked.
7. **Noted:** removing( install) parts from(to) a vehicle would cause a sudden shift of gravity which may result in instability of the vehicle. Please refer to the vehicle manufacturer's service manual as a recommended procedure if you need remove/install parts from(to) the vehicle
8. Before lowering the lift , make sure all obstacles underneath, include tool tray, tool rack etc., are all removed.

## **X. LIFT DISPOSAL**

When the car lift cannot meet the requirements for normal use and needs to be disposed, it should follow local laws and regulations.

**Address:**

SC Division: 1931 Joe Rogers Jr Blvd, Manning, SC 29102, USA

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

<http://www.amgohyd.com>

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