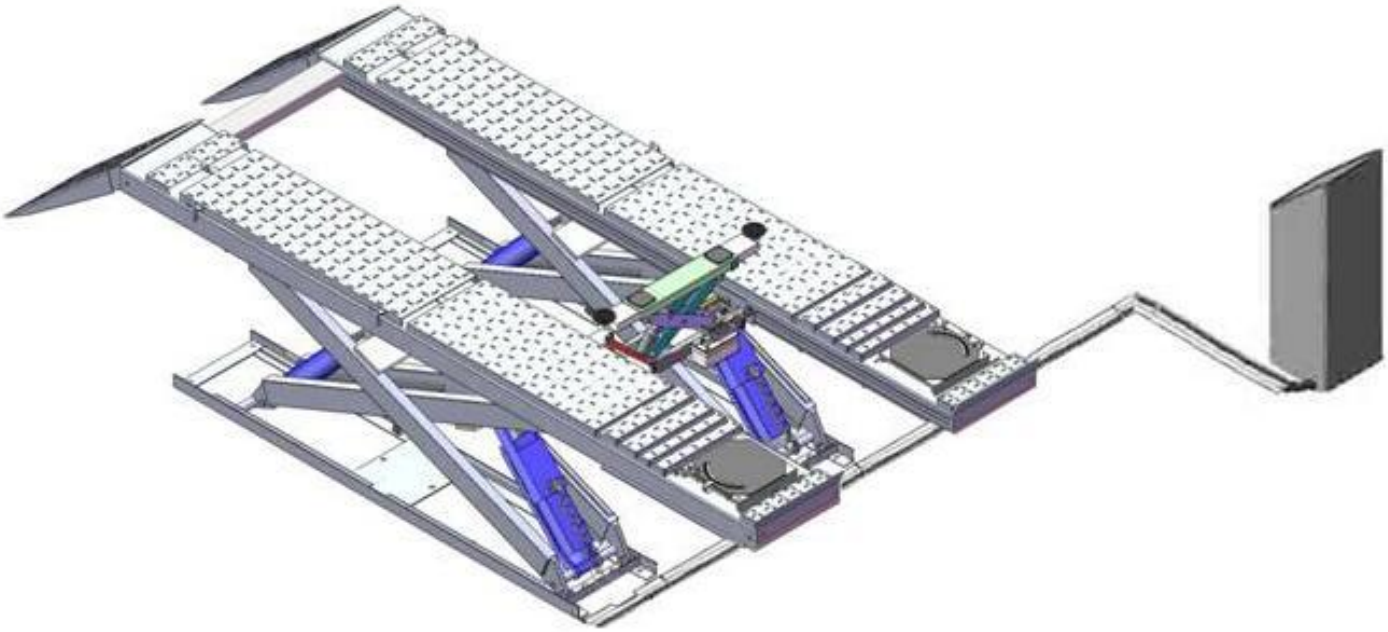
PEAK®

Original

Installation And Service Manual



SCISSORS LIFT

Model: PX12/PX12A

CONTENTS

I. PRODUCT FEATRUES AND SPECIFICATIONS

Professional Alignment Scissors Lift

Model PX12A

· Electric- air control system, safety self-lock mechanism

· 2-Dual synchronous cylinders are applied to assure the lifting level on both platforms

· Non-skid diamond runway

· Integrated rear slip-plates

· Heavy duty design, fit for a wide range of vehicle car to van and light truck.

· Optional Jack (with hand pump/air-operated hydraulic pump)

· Optional Turnplate

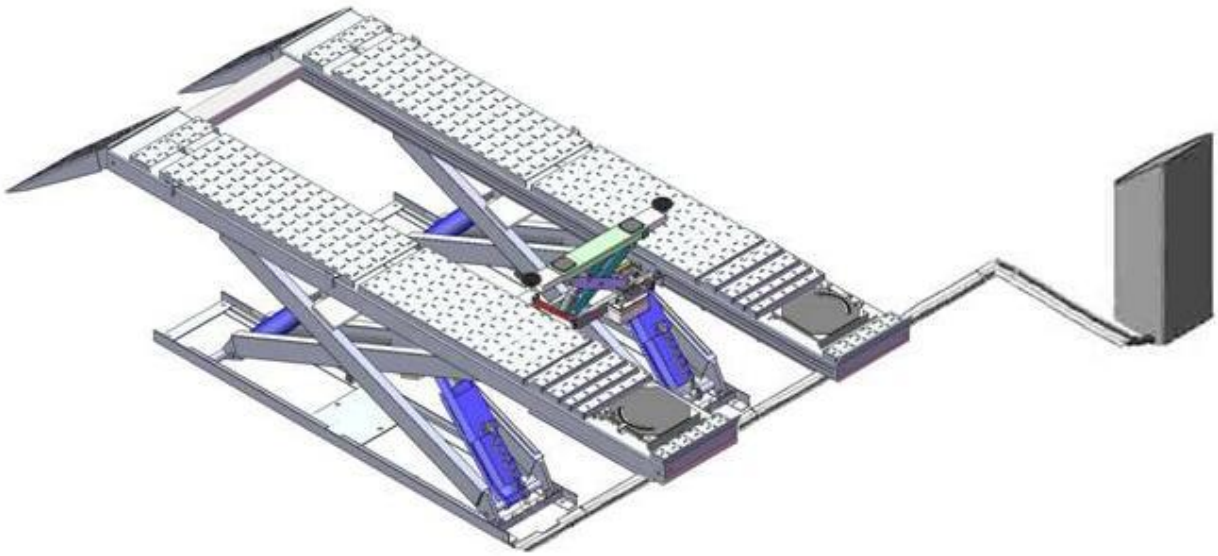


Fig. 1

MODEL PX12A SPECIFICATIONS

Model	Lifting Capacity	Lifting Height	Lifting Time	Overall Length (Inc.Ramps)	Overall Width	Min. Height	Runway Width	Distance Between Baseplate	Motor
PX12A	5500kg	1870mm	58S	6554mm	2290mm	300mm	625mm	955mm	4.0HP

Professional non-alignment Scissors Lift

Model PX12

· Electric- air control system, safety self-lock mechanism

· Dual synchronous cylinders are applied to assure the lifting level on both platforms

· Non-skid diamond runway; supper wide platform

· Heavy duty design, fit for a wide range of vehicle car to van and truck

· Optional Jack (with hand pump/air-operated hydraulic pump)

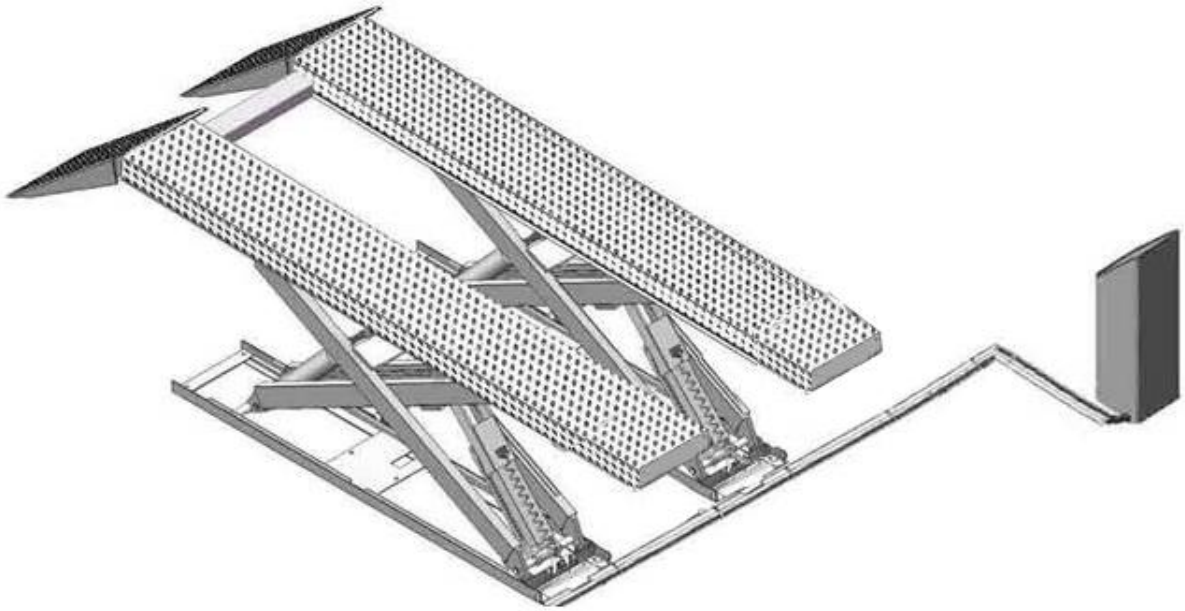


Fig. 2

MODEL PX12 SPECIFICATIONS

Model	Lifting Capacity	Lifting Height	Min. Height	Lifting Time	Overall Length (Inc. Ramps)	Overall Width	Runway Width	Distance Between Base frame	Motor
PX12	5500KG	1870mm	300mm	58S	6784mm	2290mm	625mm	955mm	4.0HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

✓ Rotary Hammer Drill (Φ19, Φ10, Φ4,)

✓ 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. 3

B. Equipment storage and installation requirements.
The equipment should be stored or installed in a shady, normal temperature, ventilated and dry place.

C. 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 100mm 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.

D. POWER SUPPLY

The electrical source must be 3.0Kw 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 PX12/PX12A On surface installation foundation **(See Fig. 4)**.

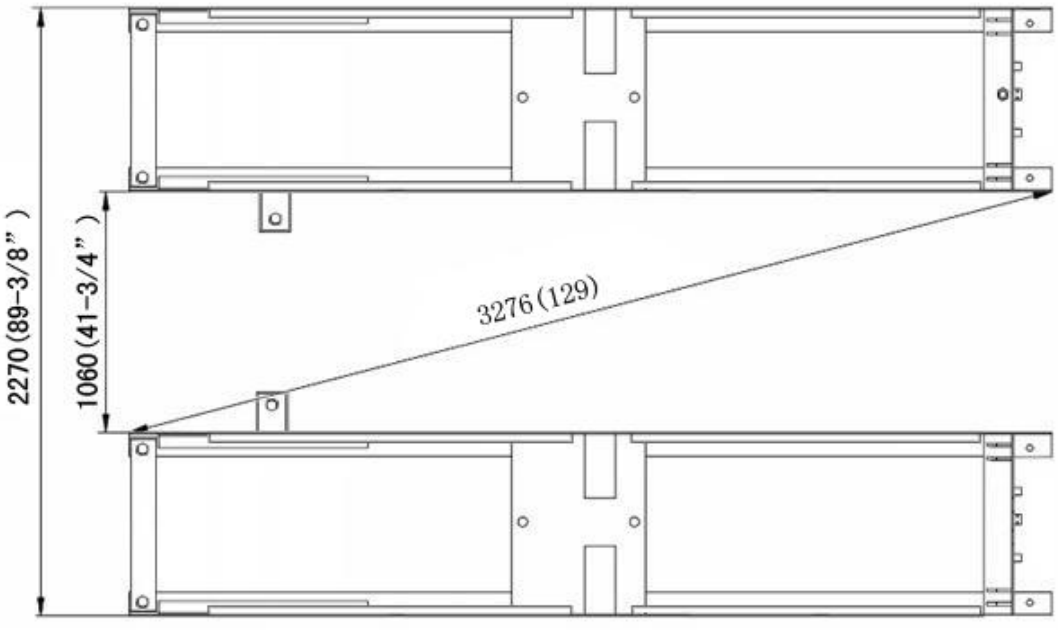


Fig. 4

1.2 Illustration of scissors lift **PX12** on surface installation **(See Fig.5)**.

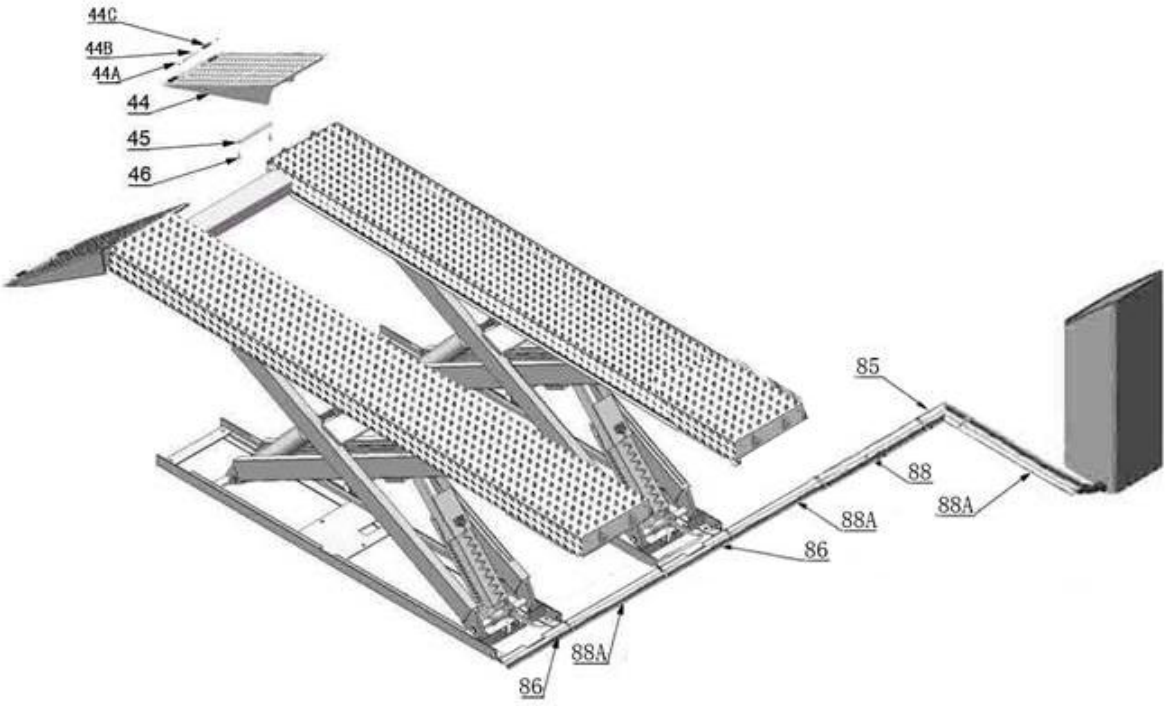


Fig. 5

1.3 Illustration of scissors lift **PX12A** on surface installation **(See Fig.6)**.

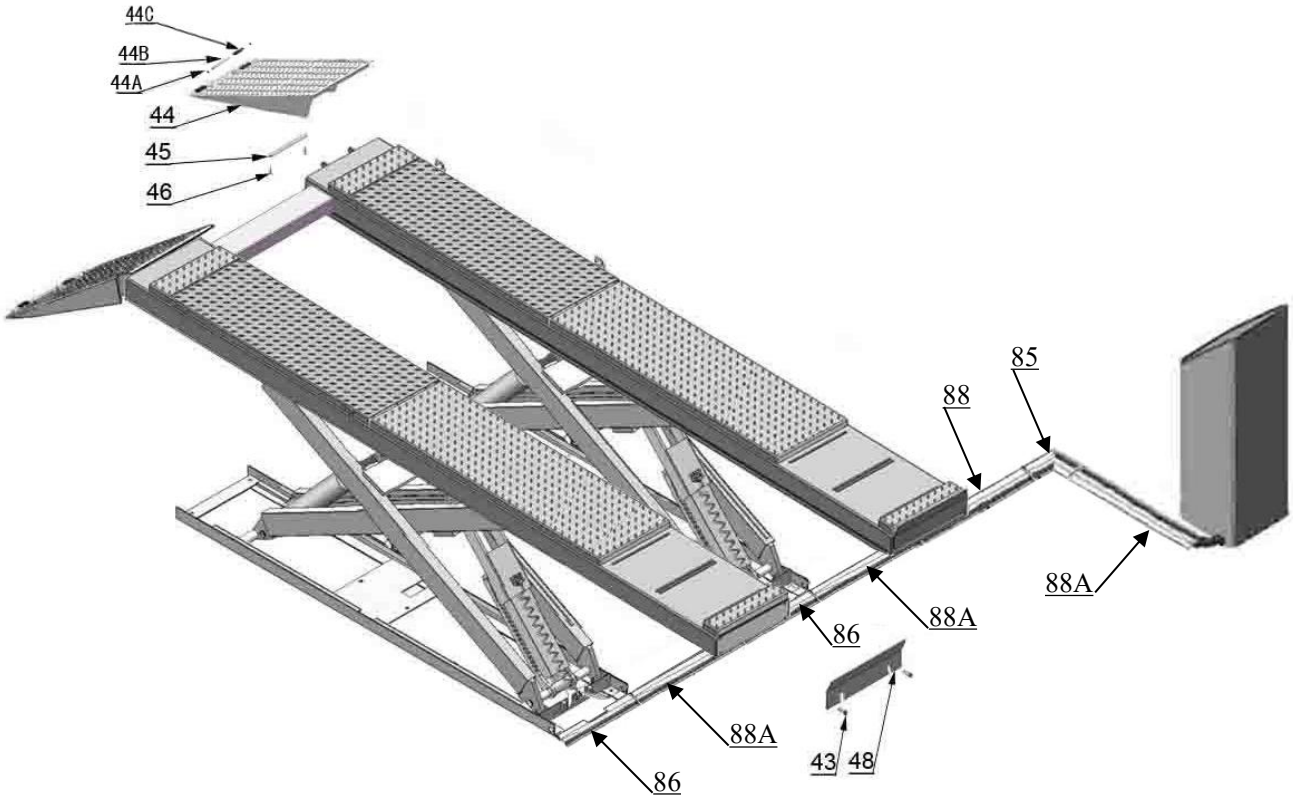
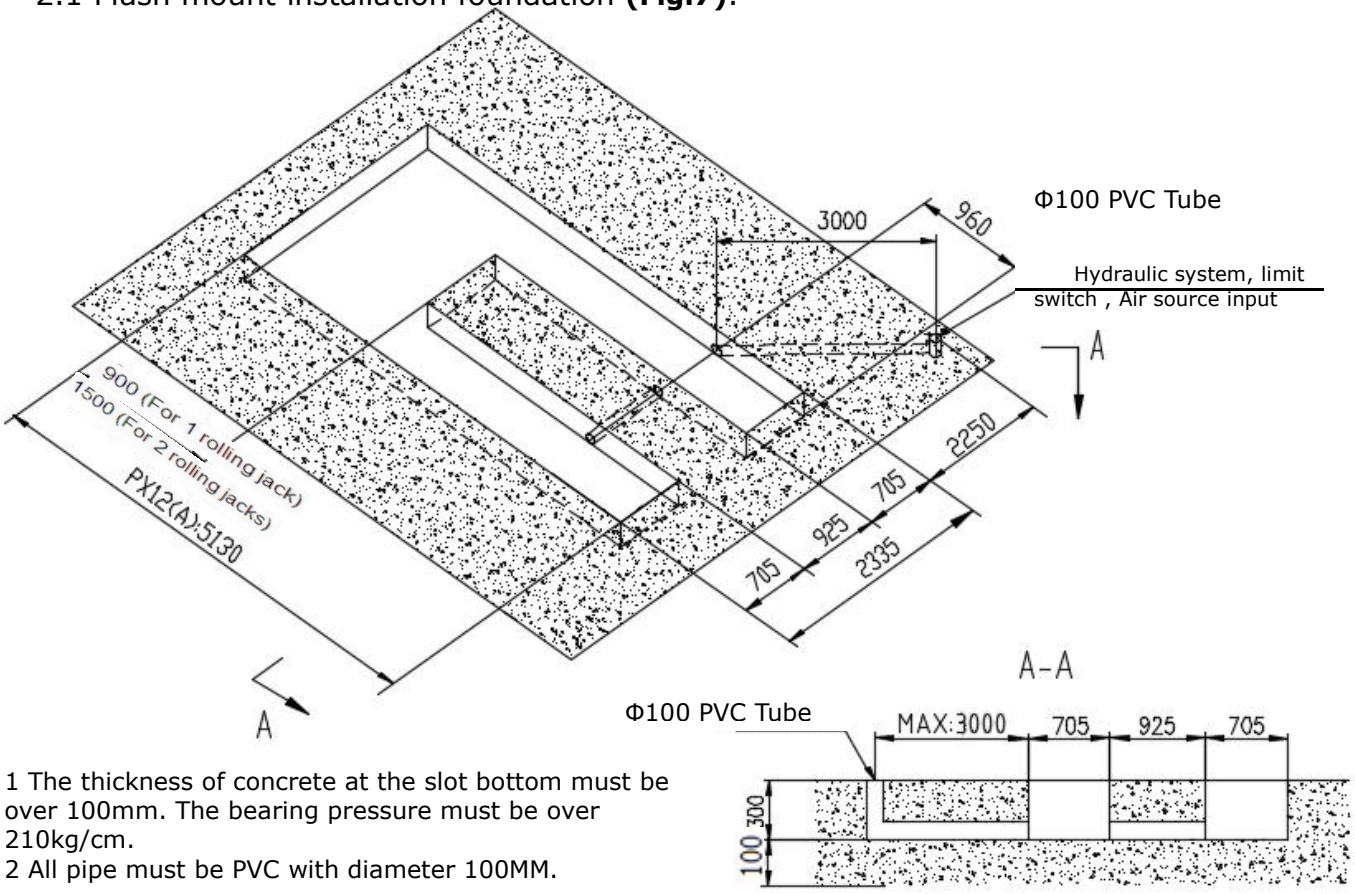


Fig. 6

2. For Optional Installation: Flush mount installation

2.1 Flush mount installation foundation **(Fig.7)**.



1 The thickness of concrete at the slot bottom must be over 100mm. The bearing pressure must be over 210kg/cm.
2 All pipe must be PVC with diameter 100MM.

Fig. 7

2.2 Illustration of scissors lift **PX12** with flush mount installation **(Fig.8).**

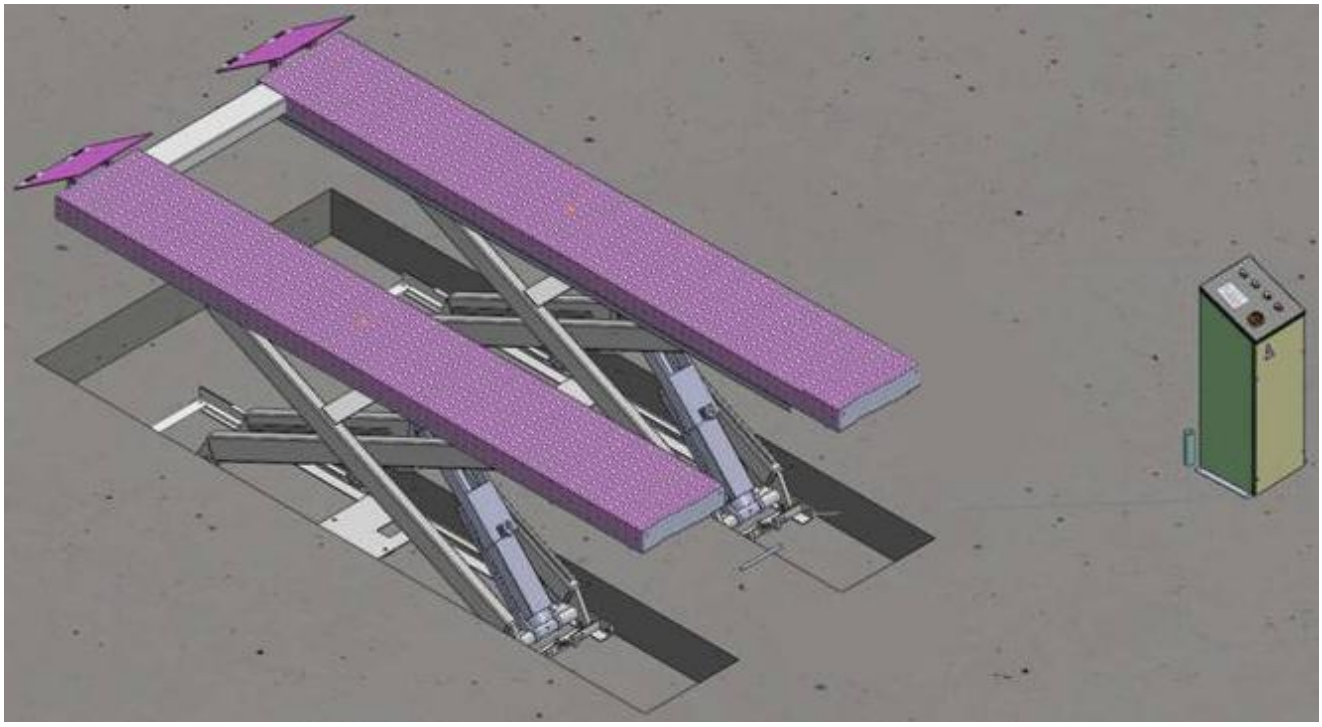


Fig. 8

2.3 Illustration of scissors lift **PX12A** with flush mount installation **(Fig.9).**

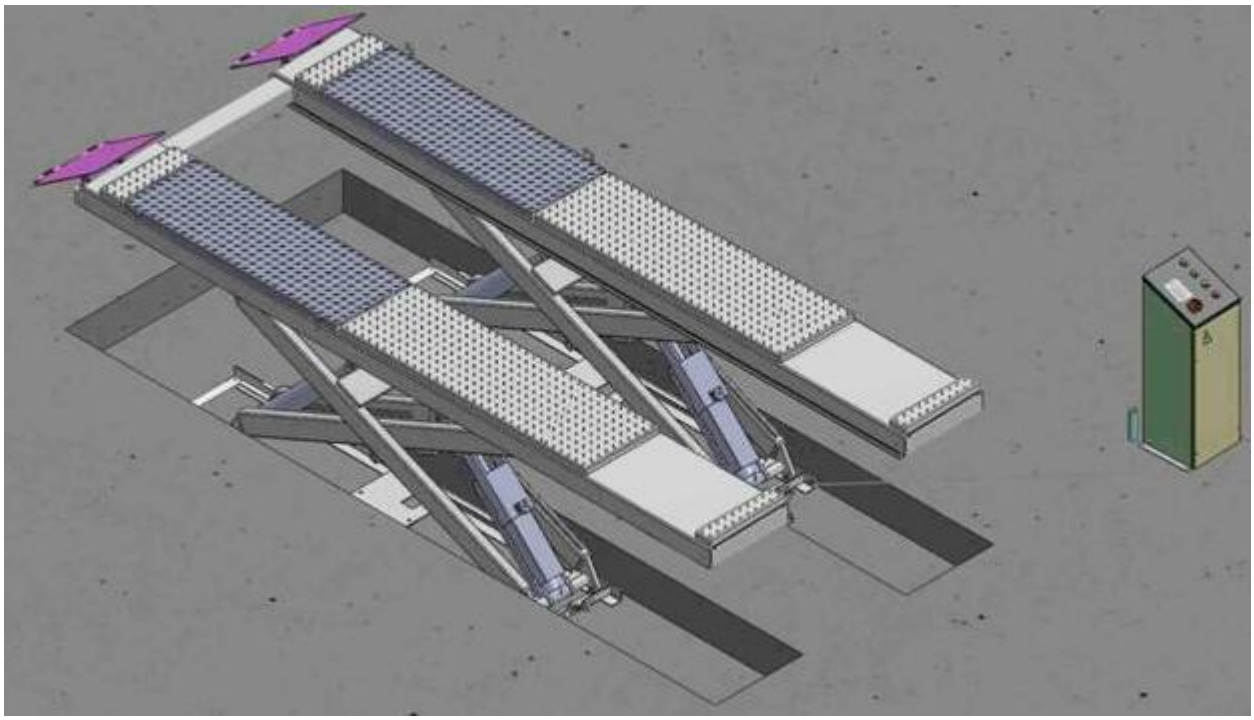


Fig. 9

B. Check the parts before assembly.

1. Received package (Packaged lift , control cabinet and Guide Ramp. Etc.) **(See Fig. 10).**

Fig. 10

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.11, Fig.12)**

For Model PX12A

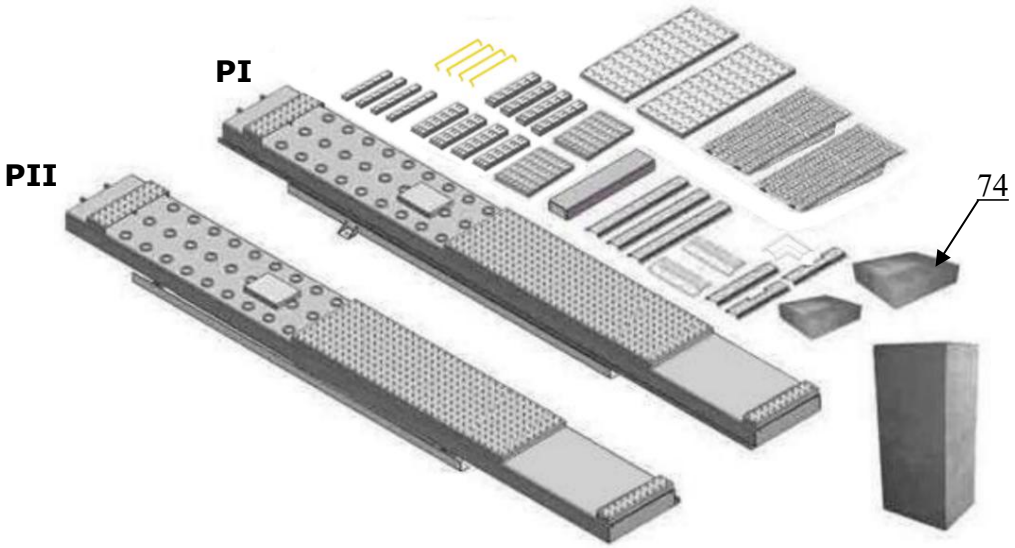


Fig. 11

For Model PX12

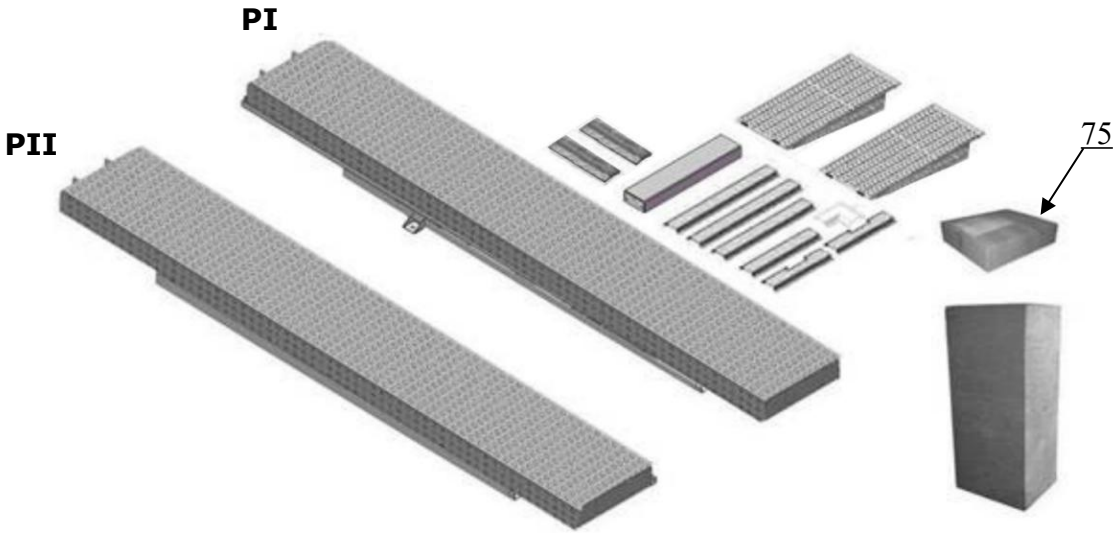


Fig. 12

2.2 Parts for flush mount installation **(See Fig.13, Fig.14)**

Noted: Need guide ramp for flush mount installation

For Model PX12A

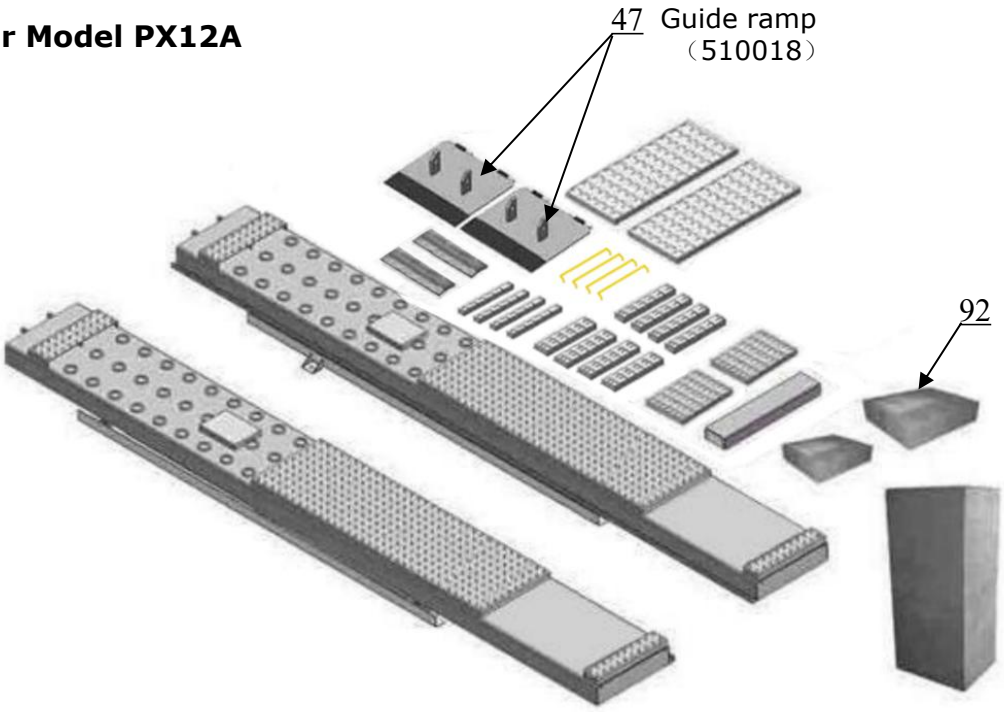


Fig. 13

For Model PX12

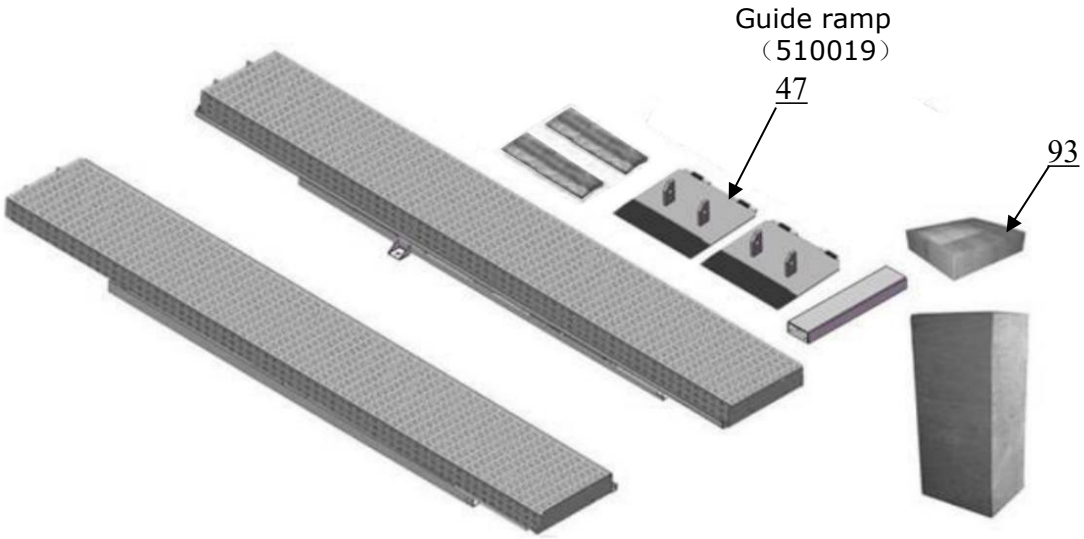


Fig. 14

3. Open the parts box, check the parts according to the part list **(See Fig.15, Fig.16)**.

For PX12A

Fig. 15

For PX12

Fig. 16

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

4.1 Parts bag for on surface installation **(See Fig.17, Fig.18)**

For PX12A

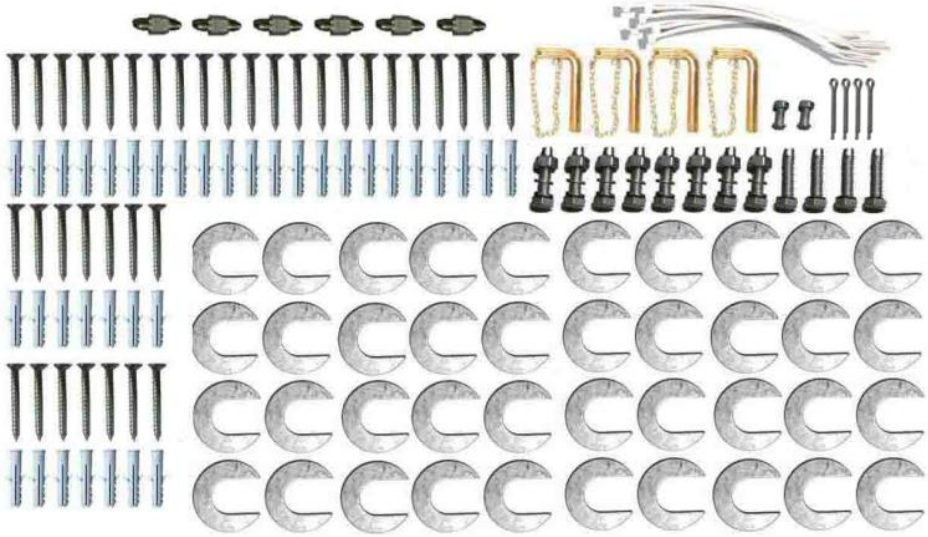


Fig. 17

For PX12

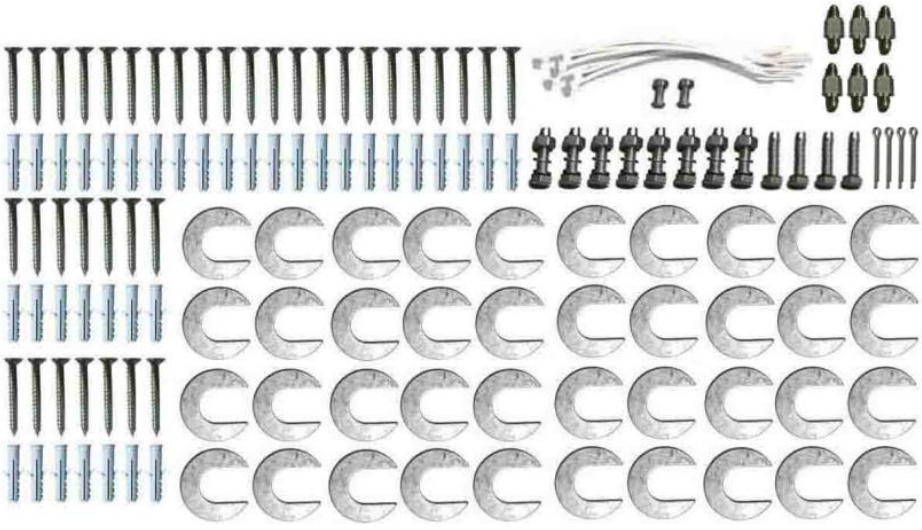


Fig. 18

4.2 Parts bag for flush mount installation **(See Fig.19, Fig.20)**

For PX12A

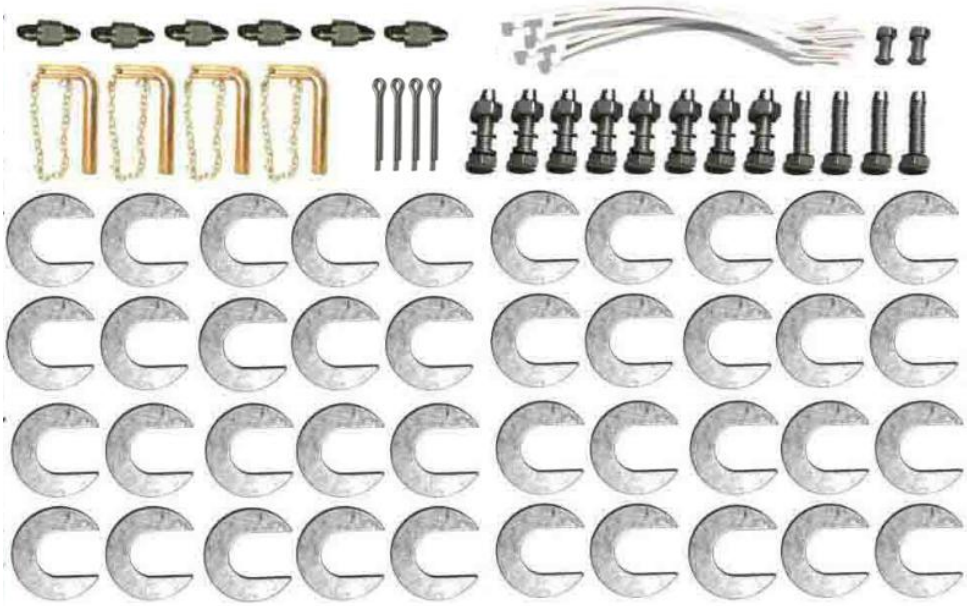


Fig. 19

For PX12

Fig. 20

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. 21,22)**. The control cabinet can be installed on the left or right according to the site.

For Model PX12A

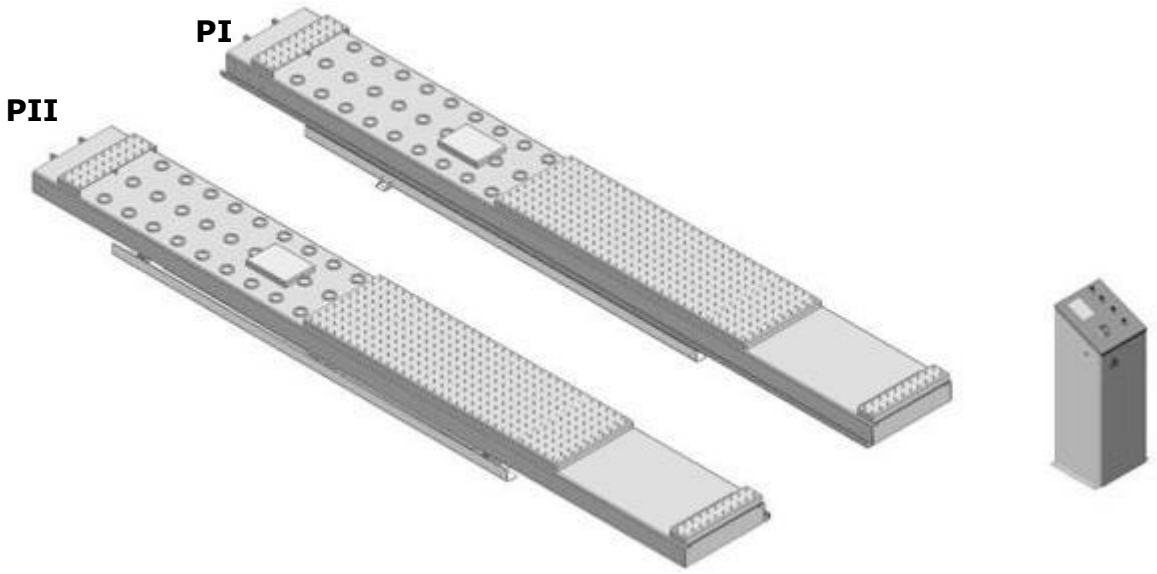


Fig. 21

For Model PX12

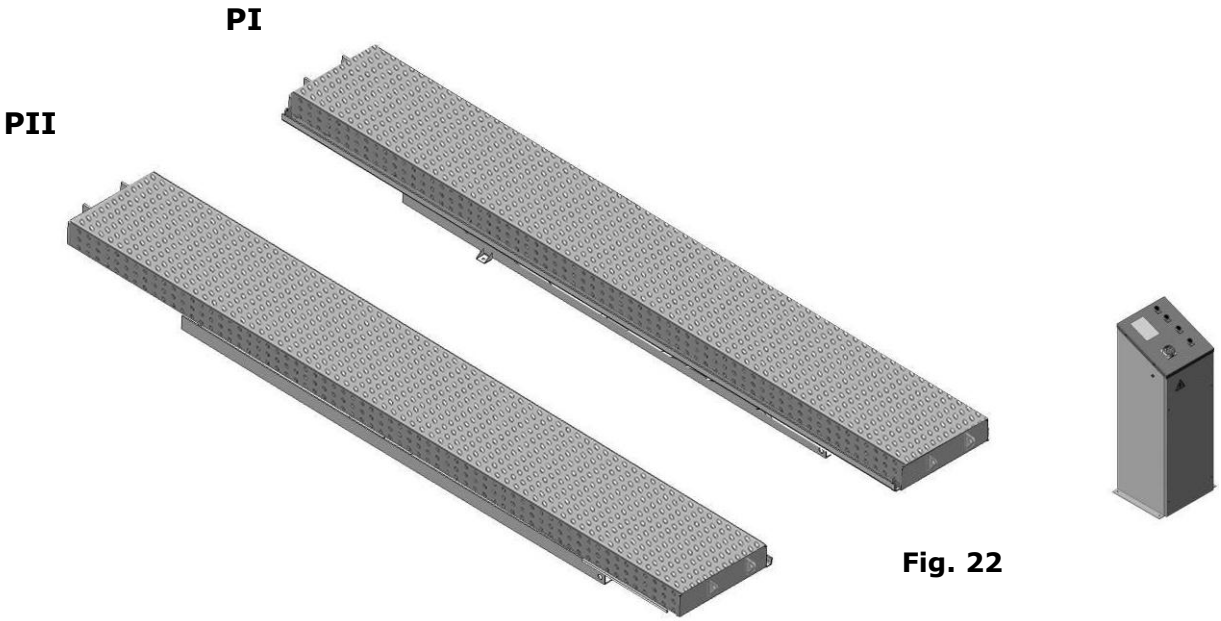
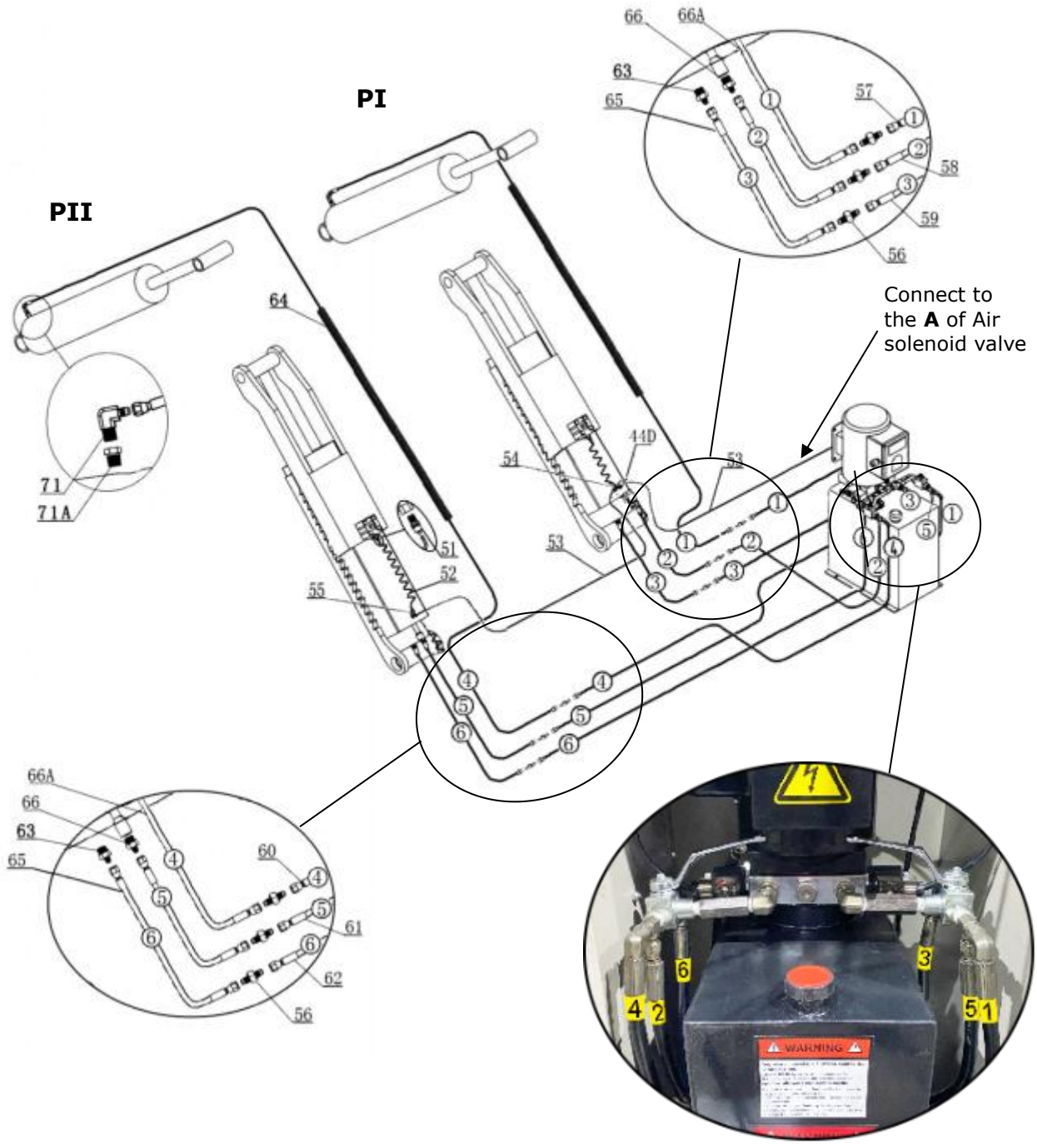


Fig. 22

2. Connecting the oil hose and air line.

2.1 Control cabinet installed in the left of the car in direction **(See Fig. 23).**



① oil hose 1/4*4450mm ④ oil hose 1/4*5960 mm

② oil hose 1/4*4200 mm ⑤ oil hose 1/4*6100 mm

③ oil hose 1/4*4500 mm ⑥ oil hose 1/4*6300 mm

Fig. 23

2.2 Control cabinet installed in the right of the car in direction **(See Fig. 24).**

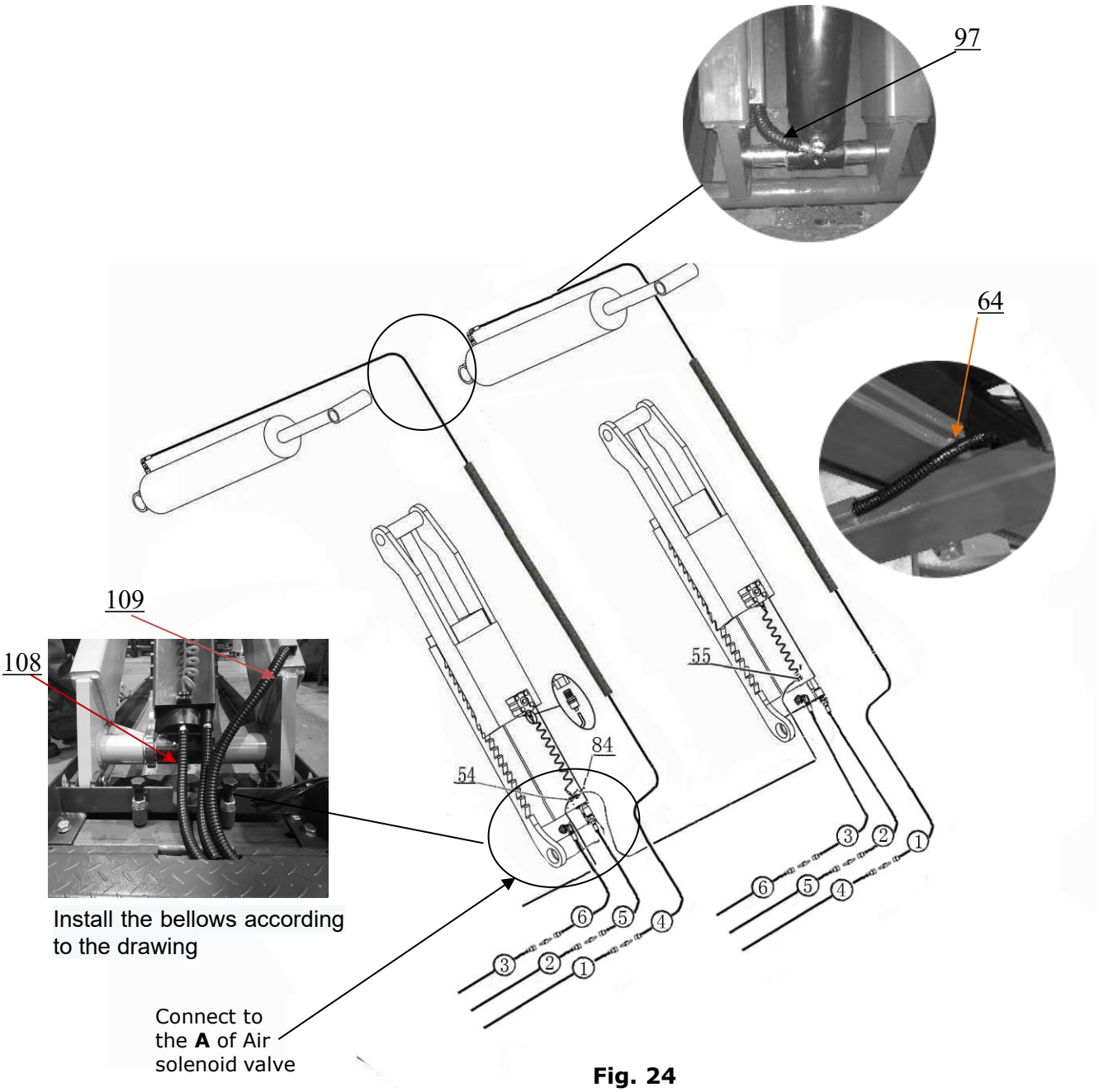


Fig. 24

3. Install the oil-water separator **(See Fig. 25)**.

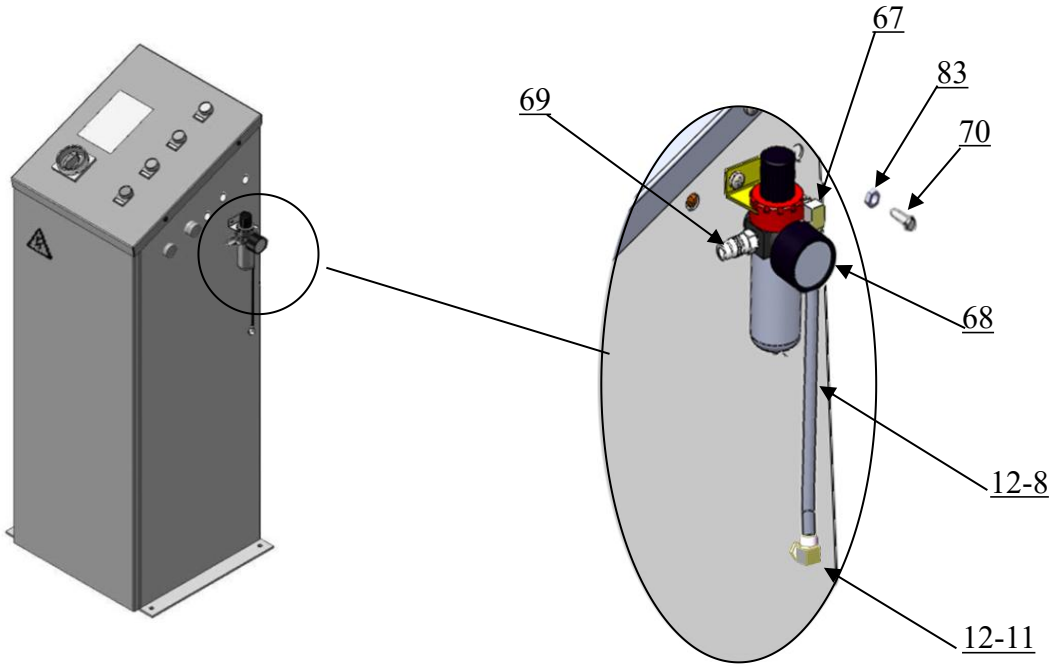


Fig. 25 Connecting the air source by the oil-water separator

4. Connect the air source (air pressure 5kg/cm^2-8kg/cm^2), Adjust the air pressure to 0.8MPa **(See Fig. 26)**.

Clockwise to increase the air pressure
Counter-clockwise to reduce the air pressure

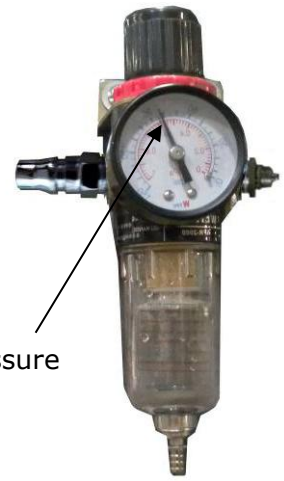


Fig. 26

D. Install electric system

1. Wire connection for hydraulic power unit **(380V)**

1.1 Connect the wire of power and limit switch as below wiring diagram **(See Fig. 27).**

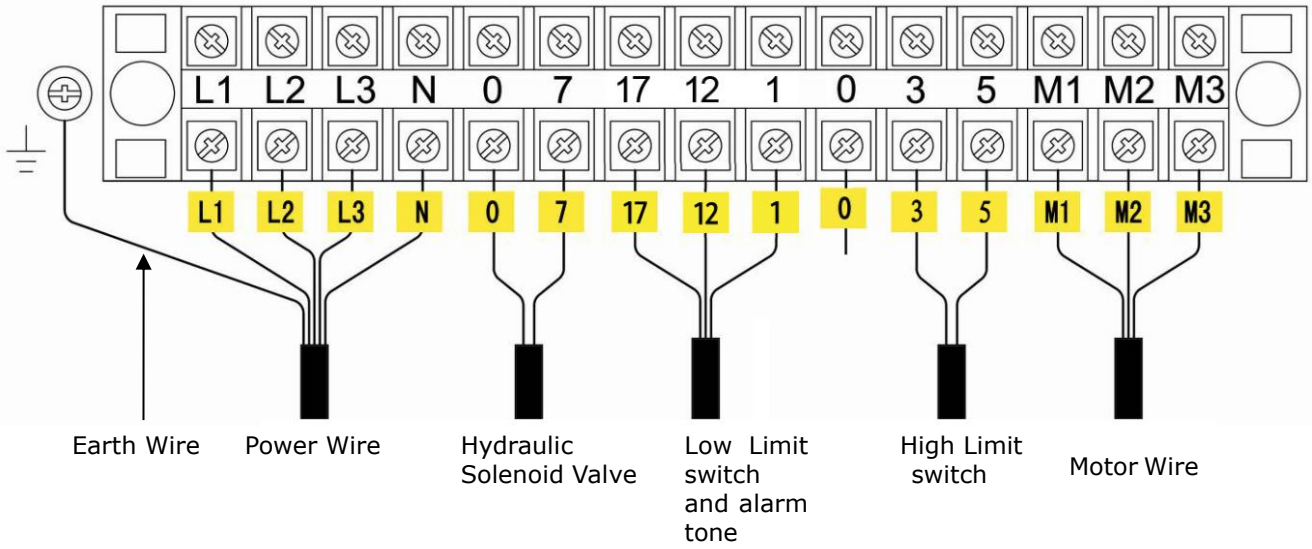


Fig. 27

1.2 Circuit Diagram **(See Fig. 28)**.

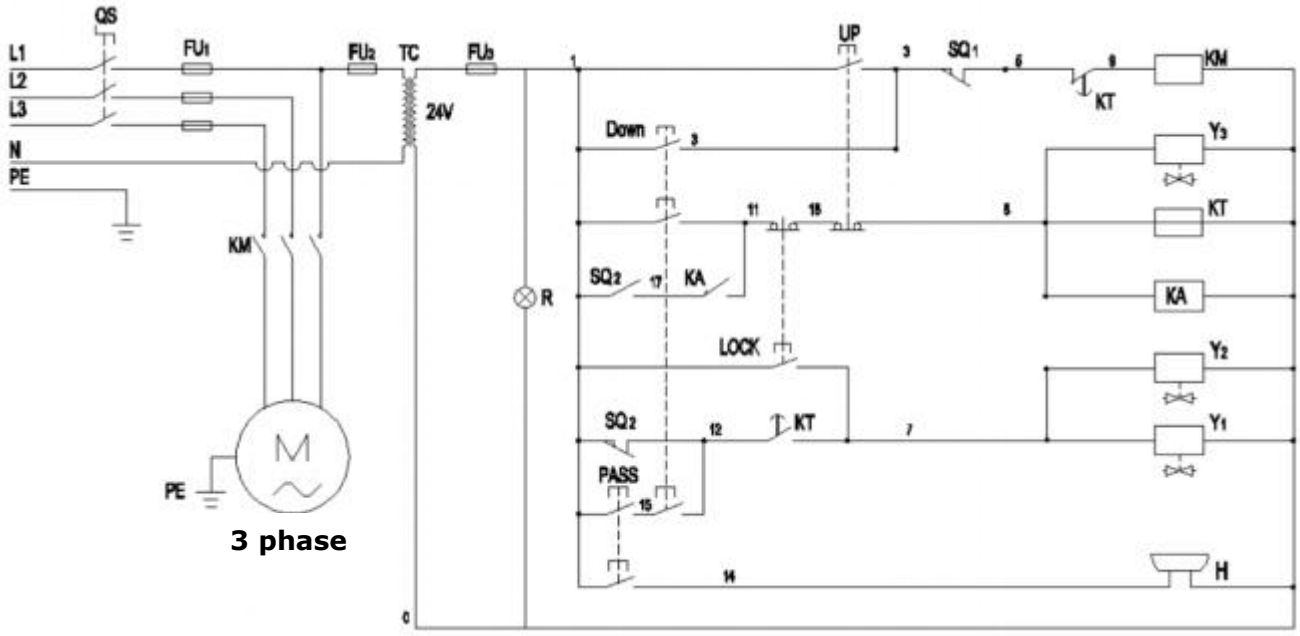


Fig. 28

380V Electric Component

Item	Name	Code	Specification
1	Power switch	QS	380v AC
2	Breaker	FU_1	3P
3	Breaker	FU_2	1P
4	Breaker	FU_3	1P
5	AC contactor	KM	AC 24V
6	Time relay	KT	AC24V
7	High limit switch	SQ_1	10A
8	Low limit switch	SQ_2	10A
9	Hydraulic solenoid valve	Y1,Y2	AC24V
10	Air solenoid valve	Y3	AC24V
11	Push button	UP	Duplex
12	Push button	Lock	Duplex
13	Push button	Down	Triple
14	Lower alarm button	Pass	Duplex
15	Motor	M	3 Phase
16	Buzzer	H	24V AC
17	Transformer	TC	24V AC
18	Intermediate relay	KA	24V AC
19	Indicator light	R	24V White

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

2.1 Connect the wire of power and limit switch as below wiring diagram (**See Fig.29).**

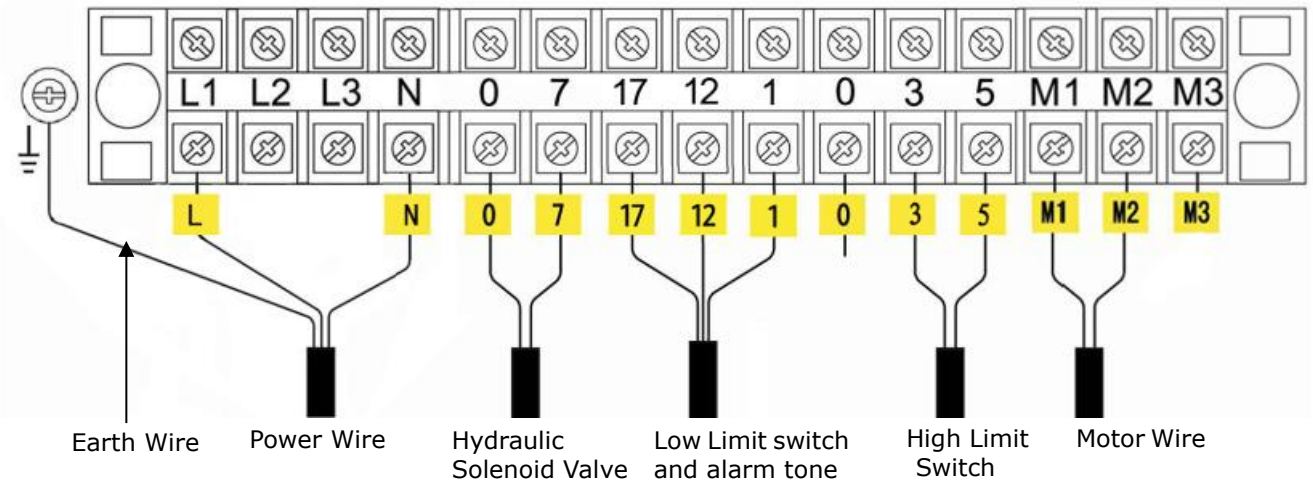


Fig. 29

2.2 Circuit Diagram **(See Fig. 30)**.

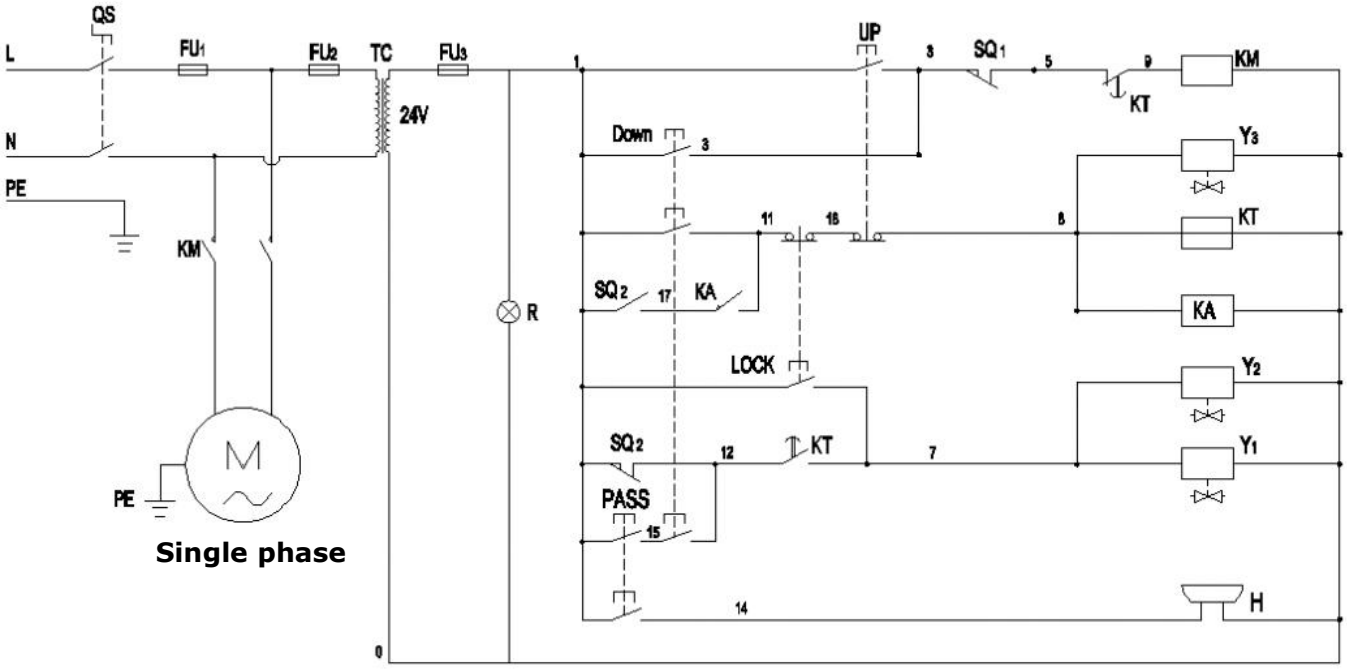


Fig. 30

220V Electric Component

Item	Name	Code	Specification
1	Power switch	QS	220V AC
2	Breaker	FU_1	2P
3	Breaker	FU_2	1P
4	Breaker	FU_3	1P
5	AC contactor	KM	AC 24V
6	Time relay	KT	AC24V
7	High limit switch	SQ_1	10A
8	Low limit switch	SQ_2	10A
9	Hydraulic solenoid valve	Y1,Y2	AC24V
10	Air solenoid valve	Y3	AC24V
11	Push button	UP	Duplex
12	Push button	Lock	Duplex
13	Push button	Down	Triple
14	Lower alarm button	Pass	Duplex
15	Motor	M	Single Phase
16	Buzzer	H	24V AC
17	Transformer	TC	24V AC
18	Intermediate relay	KA	24V AC
19	Indicator light	R	24V White

E. Level two platforms and install anchor bolts.

1. Check by level bar, adjust the down leveling bolts(**see Fig.31**) and add the shim until two platforms are in the same level, lowering the lift to the lowest position and adjust the up leveling bolts (**see Fig.32**) until contacting the down leveling bolts, tighten the nut with wrench.

Fig.32

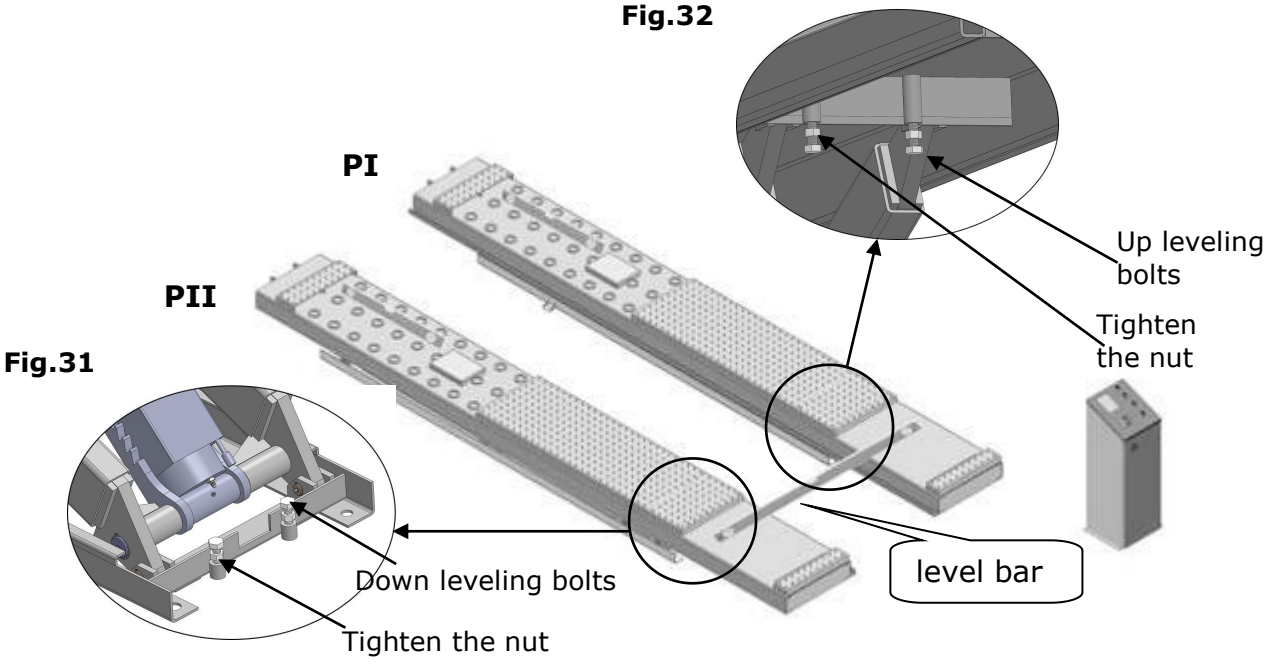


Fig.31

2. Install anchor bolts.

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

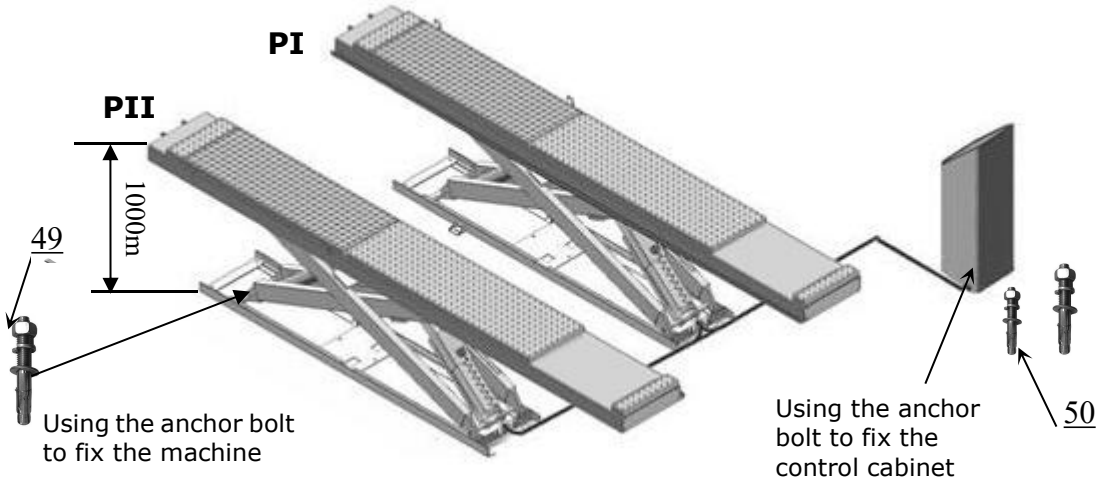


Fig. 33

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. 34).**

Note: The twisting force of anchor bolt is 150N.m, the length inside ground of anchor bolt must be over 90mm.

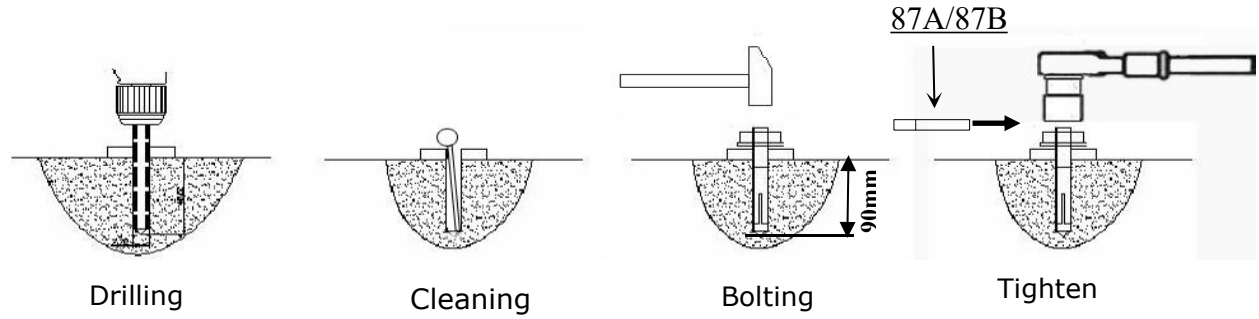


Fig. 34

For the lifts：use Φ19 driller to drill hole
For the control cabinet：use Φ10 driller to drill hole

F. Install runway connecting bar,Install Limit rod (See Fig. 35).

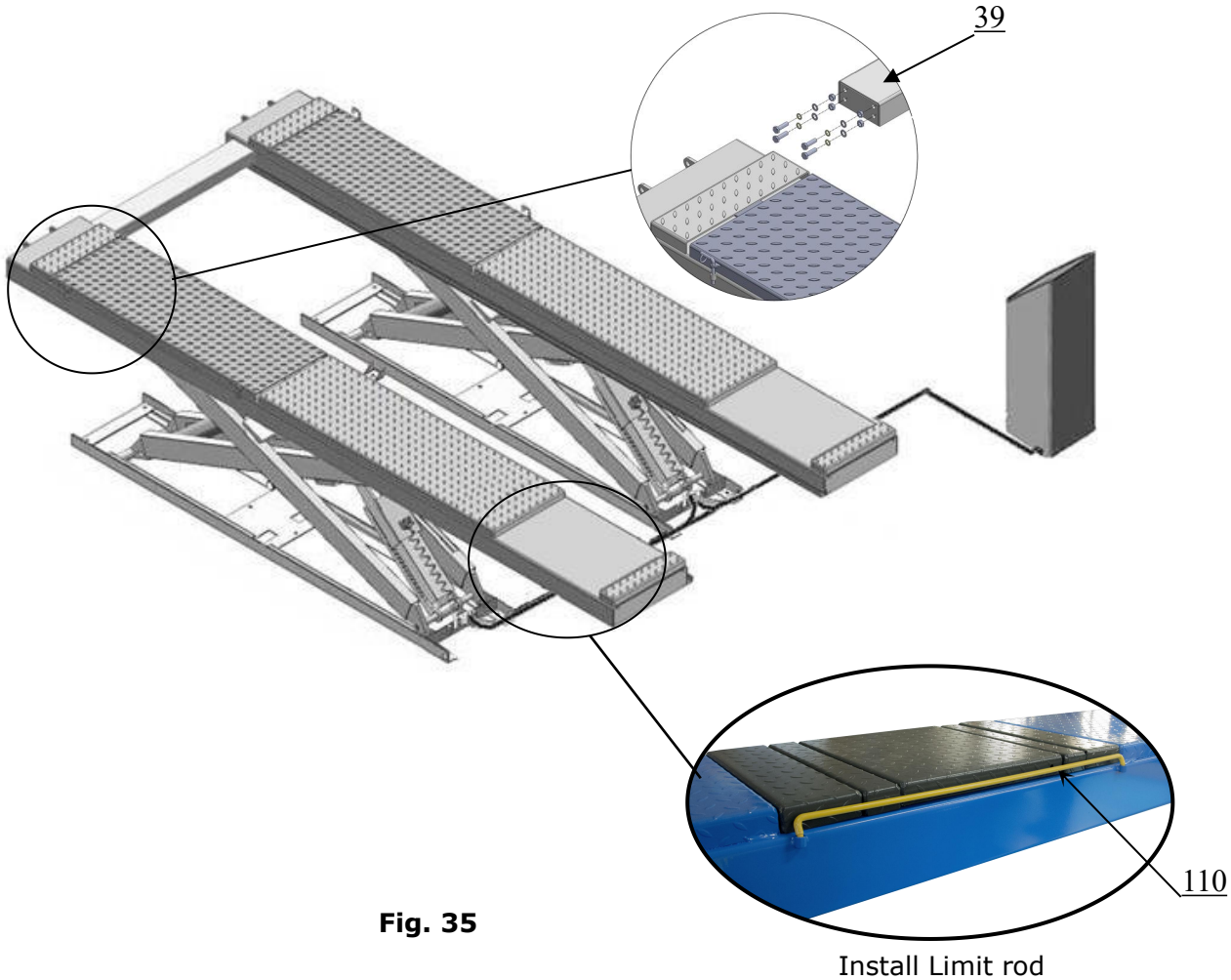


Fig. 35

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. 36).**

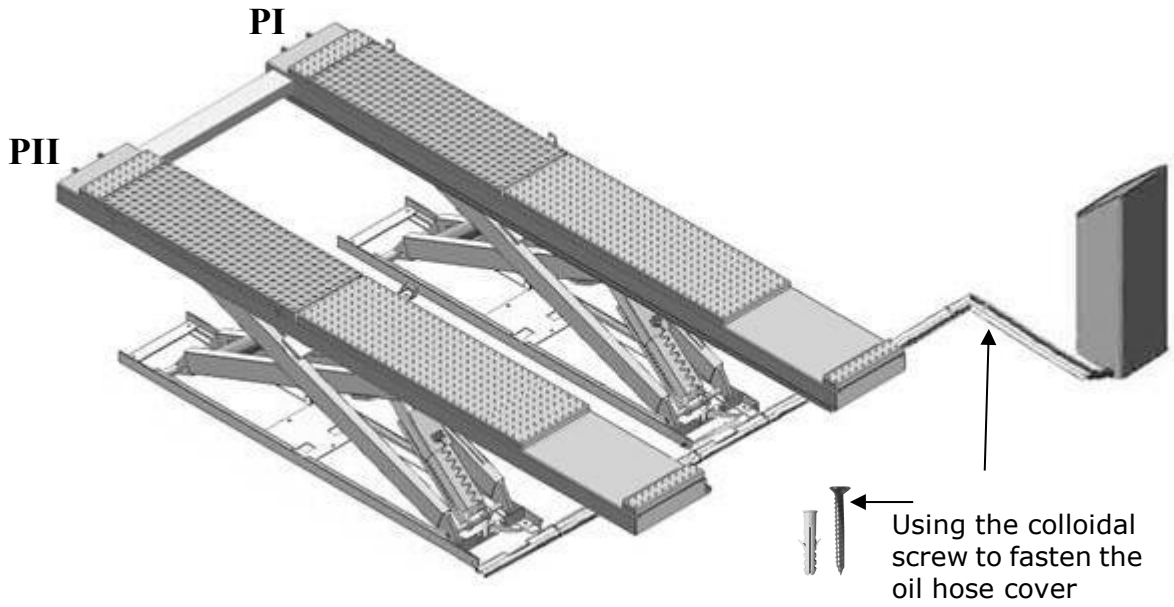


Fig. 36

2. Install the oil hose cover **(See Fig. 37)**.

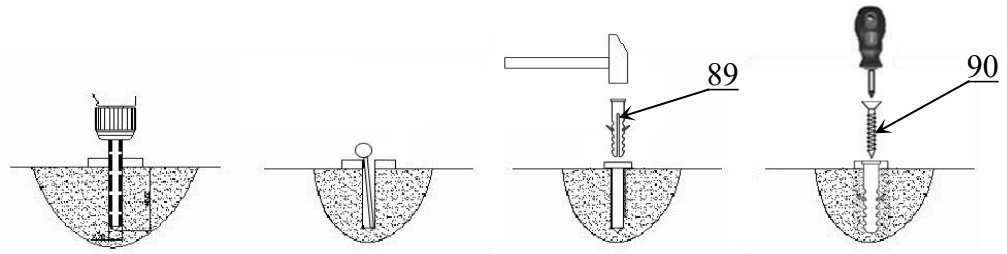


Fig. 37

H. Illustration of installing the PX12/PX12A optional air line kits(Fig.38)

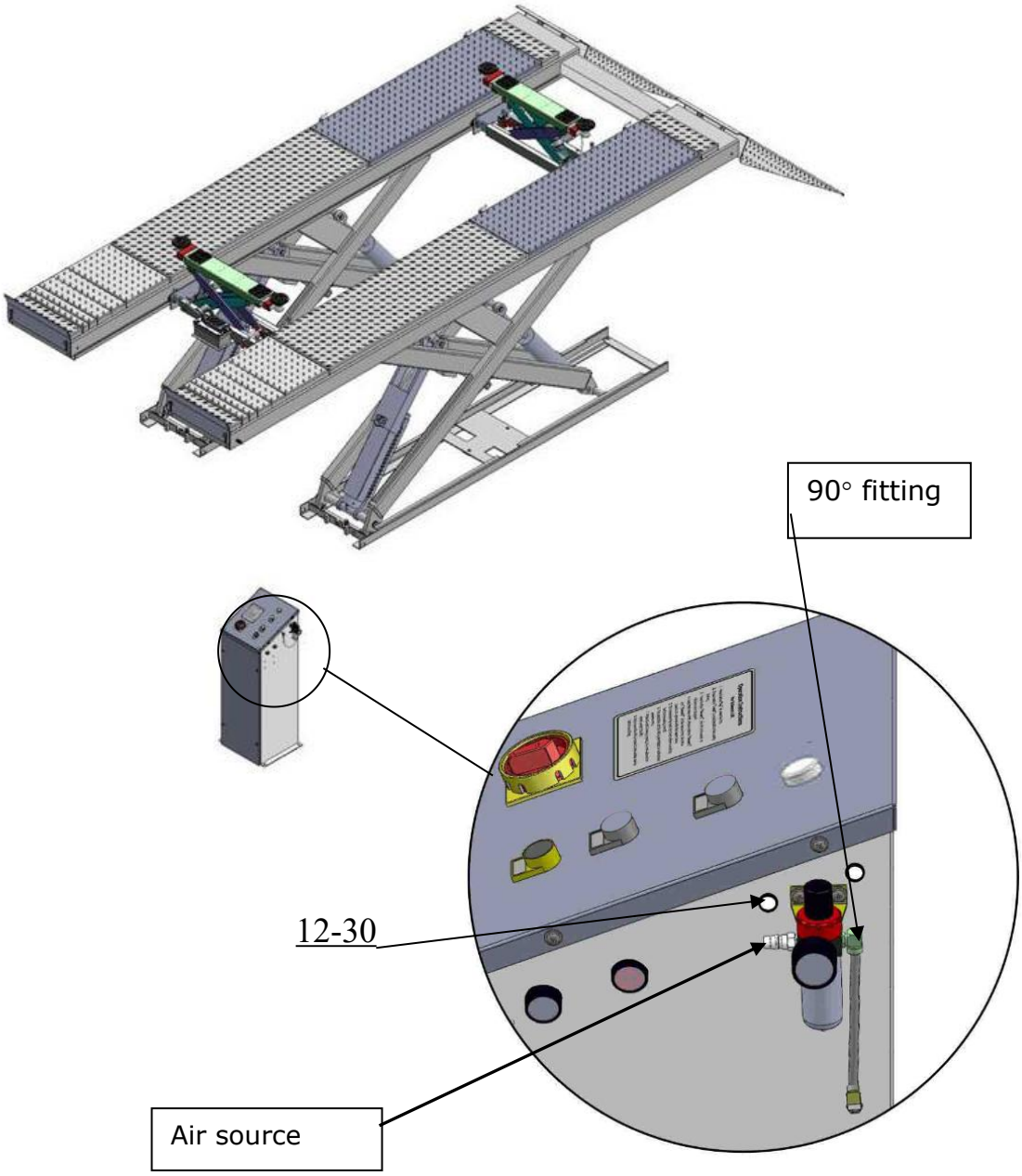


Fig. 38

1. Install air line kit

1.1 Connect the air line fittings with ϕ8*ϕ6 black air line as following fig. The length of air line can be cut accordingly. **(See Fig.39)**

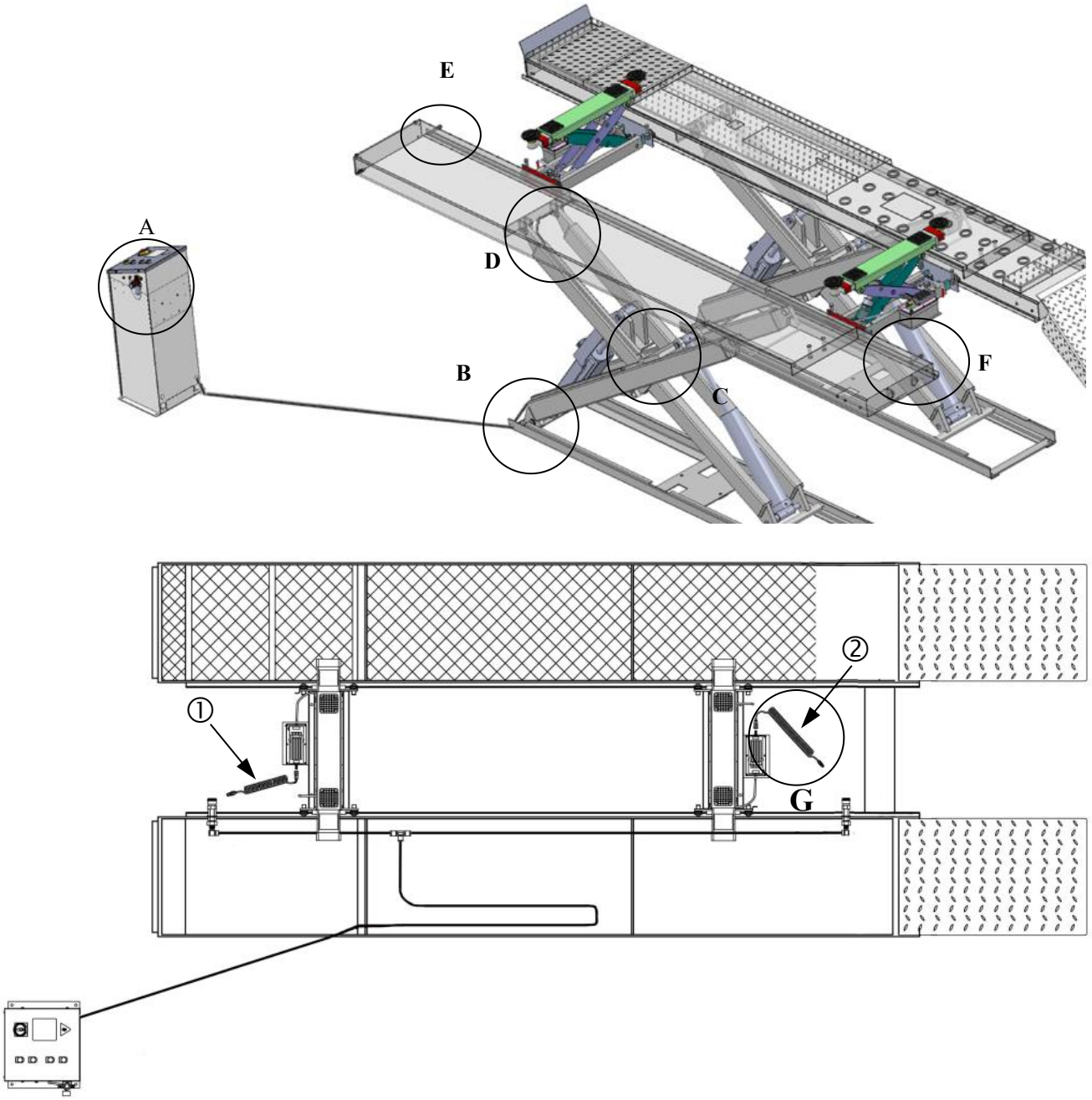
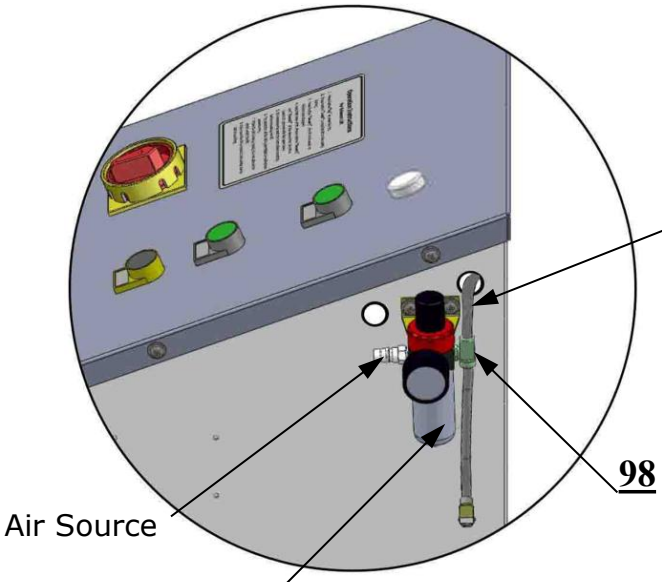
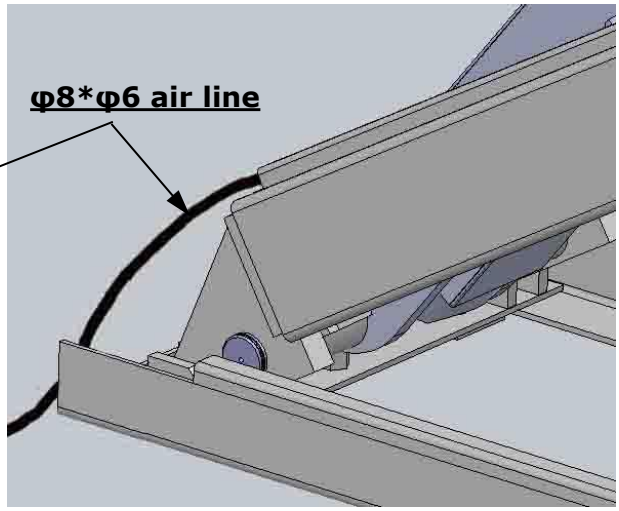


Fig.39



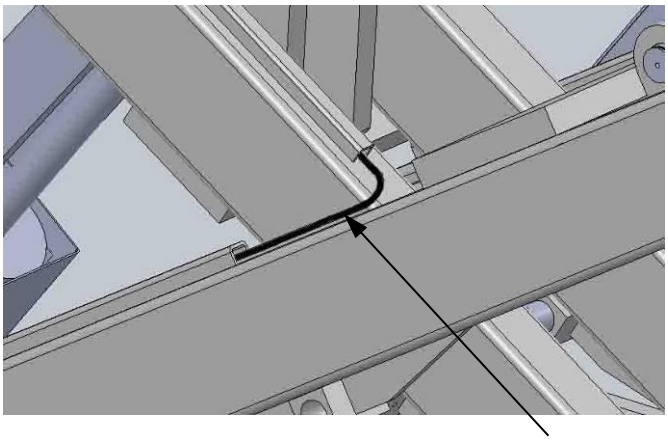
View A



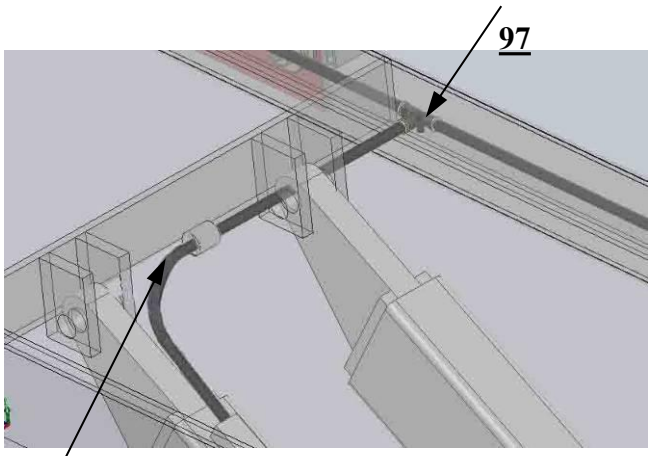
View B

1.2 Replace 90° air hose fitting to three ways fitting from oil-water separator, then through black air hose(ϕ8*ϕ6) to control cabinet and connect with screw fitting.

1.3 Through black air hose(ϕ8*ϕ6) to the hole of the base and fixing slot of outer scissor



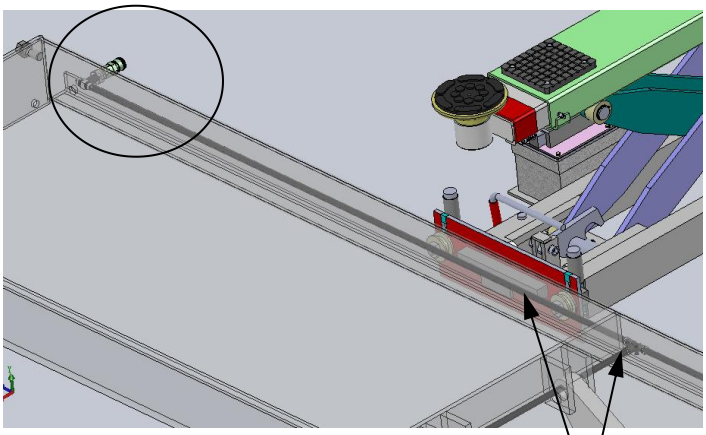
View C



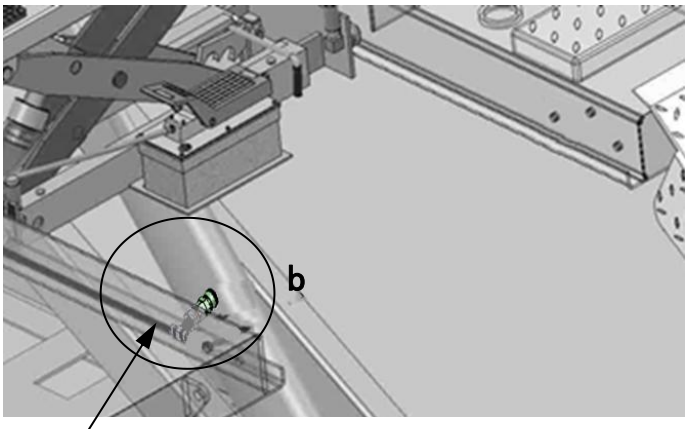
Ø8*Ø6Air line

View D

a



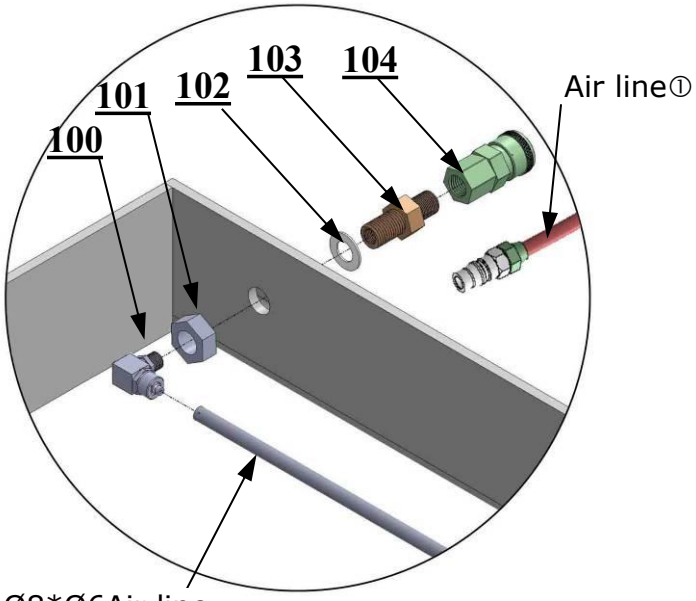
View E



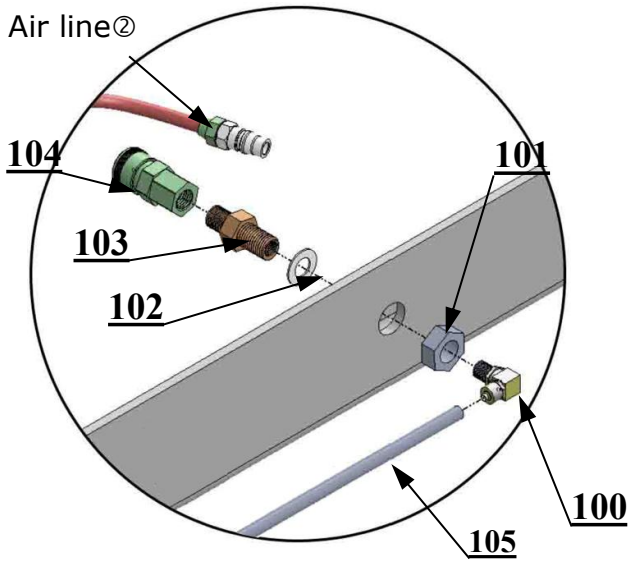
Ø8*Ø6Air line

View F

1.4 Air source divide into two ways by passing three ways fitting and connect with rolling jack separately.



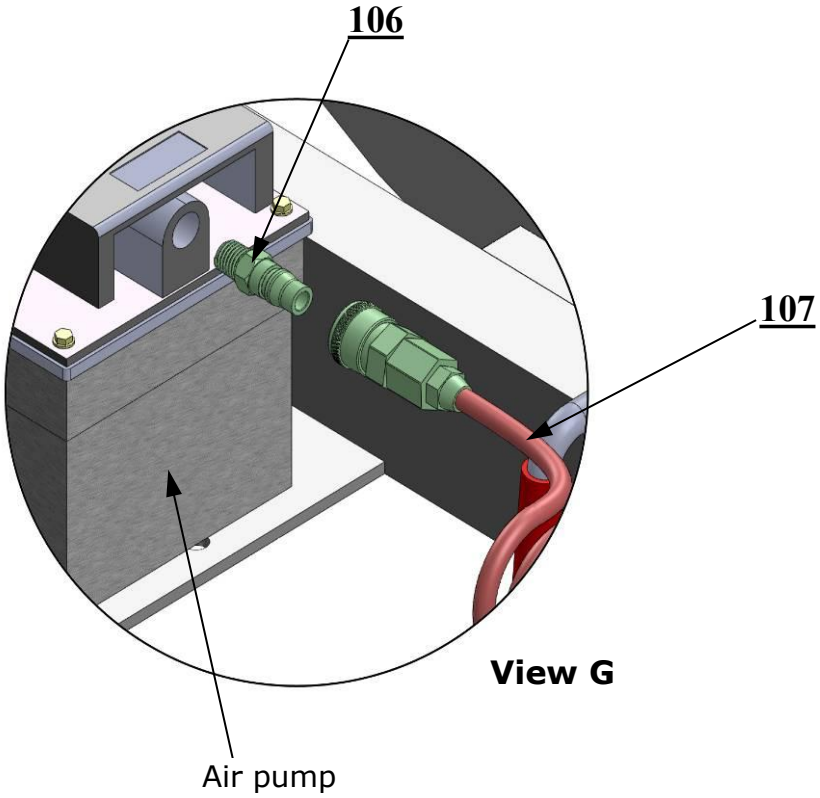
View a



View b

1.5 Install quick female fitting, then connect it with male air line ①

1.6 Install quick female fitting, then connect it with male air line②



View G

1.7 Connect female airlines of ① and ② to quick male fitting on two operate jack

2. Connect the air source, operate the jack.

Part list for Optional Airline Kits:

Item	Part#	Description	QTY
98	10420213	T2 screw fitting	1
99	10540007	Quick T fitting	1
100	1061K094	90°bend fitting	2
101	1061K092	Hex nut M14	2
102	10430010	φ14 Washer	2
103	1061K091	Air line fitting	2
104	1061K090	C shape Quick female fitting	2
105	10800025	φ8*φ6*12200mm Air line	1
106	10420146	Quick Male fitting	2
107	10520065A	Spring air line(Include male and female fitting)	2

IV. EXPLODED VIEW

MODEL PX12A

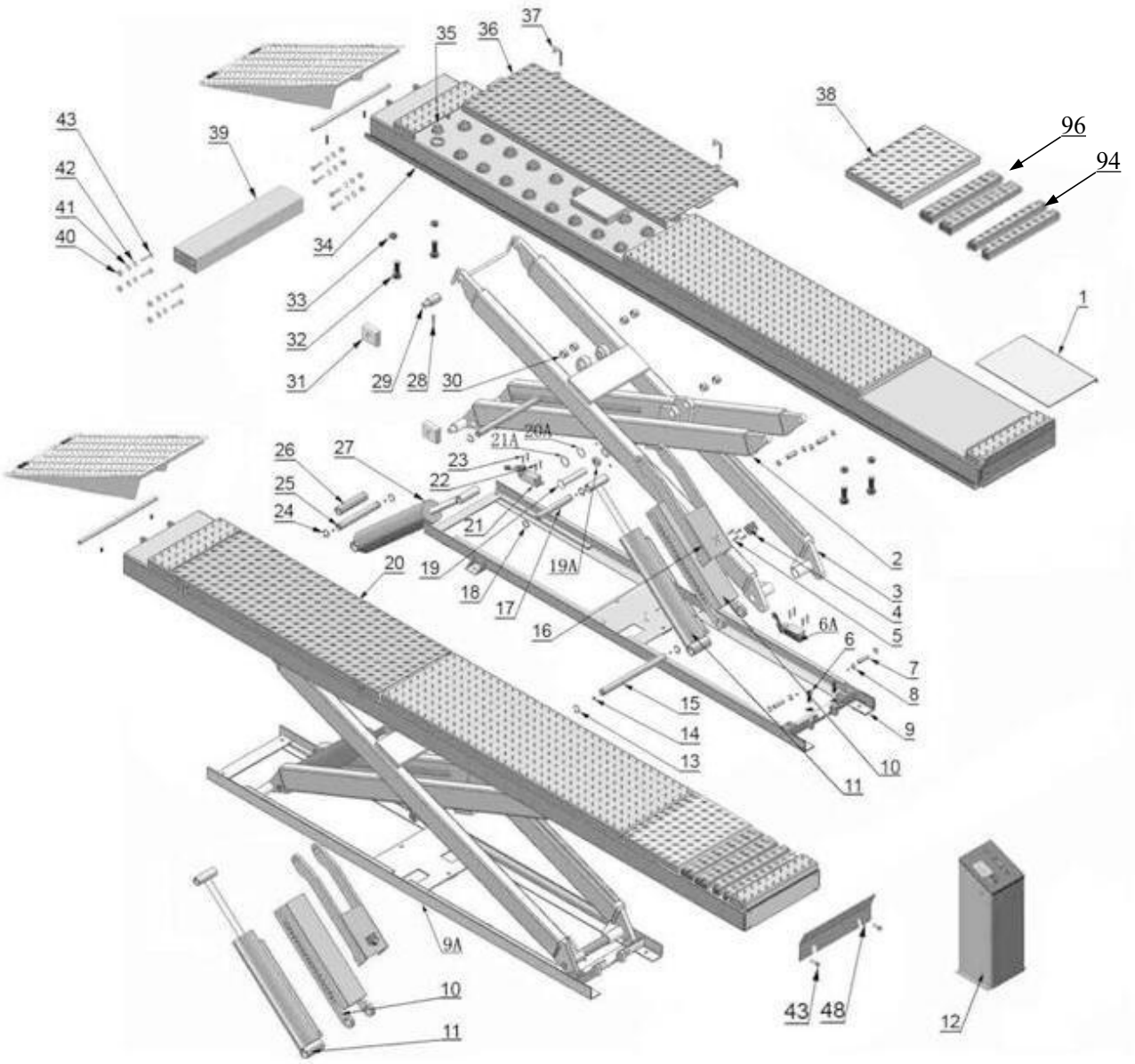
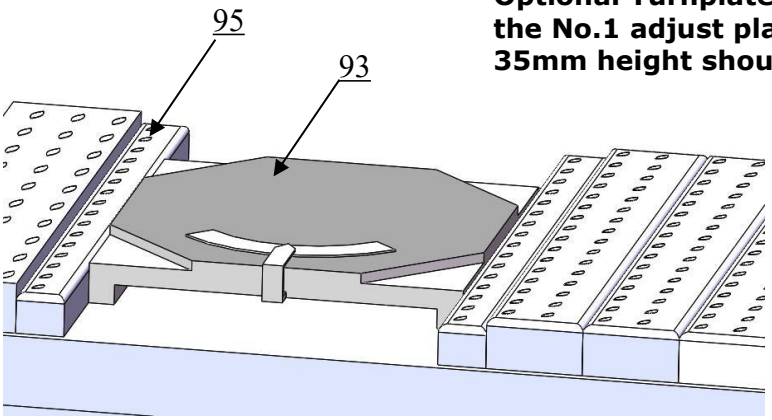


Fig.40

Optional Turnplate



Optional Turnplate: when assemble turnplate the No.1 adjust plate for turnplate which 35mm height should next to the turnplate.

MODEL PX12

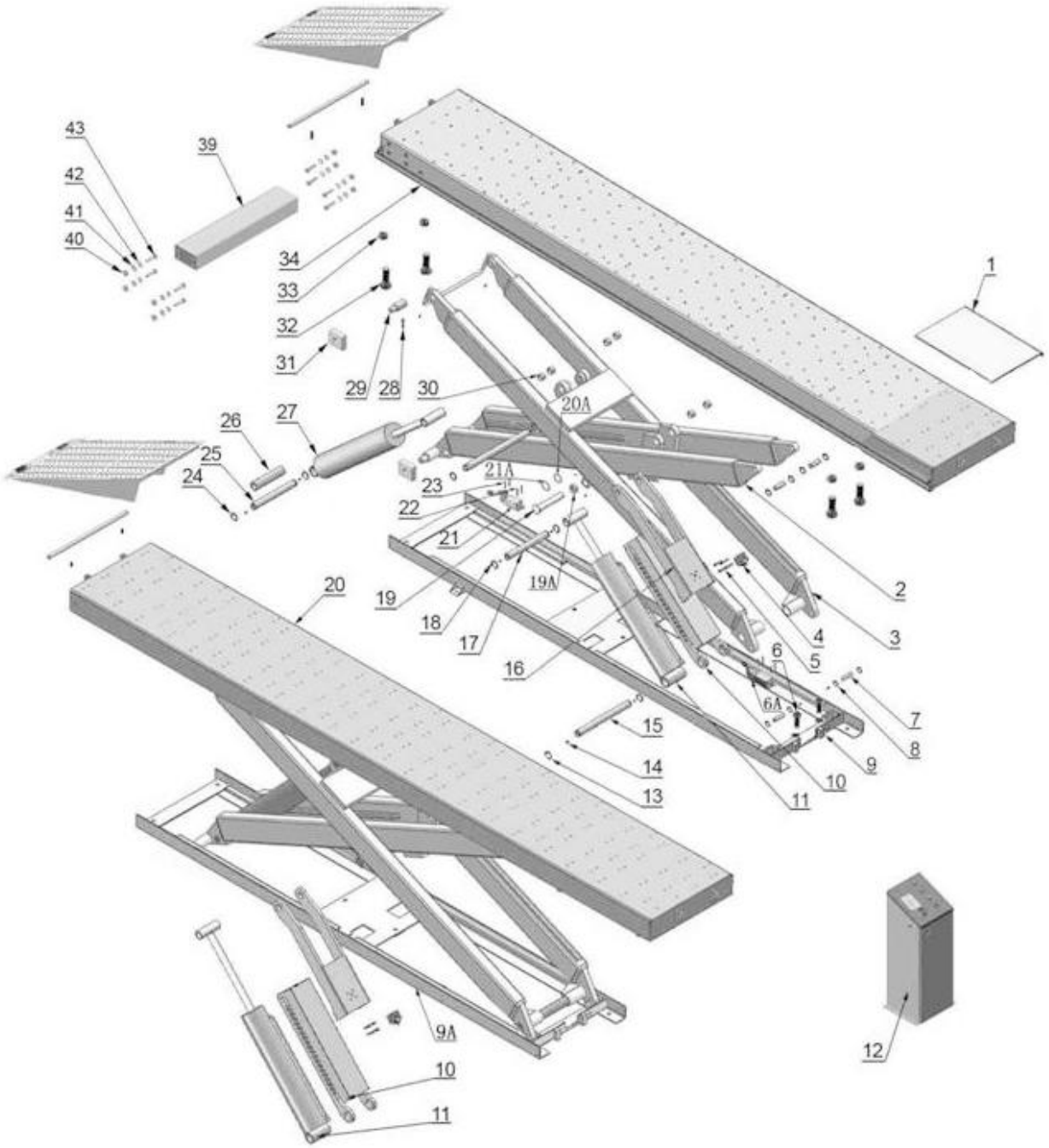


Fig. 41

PARTS LIST For Model PX12A, PX12

Item	Part#	Description	QTY		Note
			PX12A	PX12	
1	11520003	Shelf	2	2	
2	11530002A	Inner Scissors	2	2	
3	11530003A	Outer Scissors	2	2	
4	10520011	Air Cylinder	2	2	
5	10420153	Cup Head Bolt M6*20	8	8	
6	10510034	Hex Bolt M20*75	4	4	
6A	10510040	Limit switch assy.	1	1	
7	11520013A	Connecting Pin	8	8	
8	10206032	Snap Ring Φ25	16	16	
9	11520015C	Base frame	1	1	
9A	11520015D	Base frame	1	1	
10	11520016A	Main Safety Lock Tube	2	2	
11	10530029	Main Cylinder	2	2	
12	1003207001	Control Cabinet (Single phase) (81523055)	1	1	
	1003207002	Control Cabinet (Single phase) (81523057)			
	1003207003	Control Cabinet (Three phase) (81523056)			
13	10520020	Snap Ring Φ50	4	4	
14	10620064	Grease Fitting M6	32	32	
15	11520018A	Connecting Shaft For Main Cylinder	2	2	
16	11520021A	Safety Lock	2	2	
17	11610005A	Connecting pin for Main Cylinder	4	4	
18	10610098	Snap Ring Φ35	8	8	
19	11520024A	Connecting Pin For Scissors	4	4	
19A	10610019	Self locking nut M30*3.5	4	4	
20	11540004D	Offside Platform	1	0	
	11530041		0	1	
20A	10610108	Washer Ø44*Ø30.5*2	4	4	
21	10510041	Limit Switch Assy.	1	1	
21A	10530023	Washer Ø44*Ø35.5*2	4	4	
22	10620109	Cup Head Bolt M4*18	4	4	
23	10420164	Cup Head Bolt M4*30	4	4	
24	10520023	Snap Ring Φ38	4	4	
25	11560026A	Connecting Shaft For Secondly Cylinder	2	2	
26	11560027	Piston Connecting Tube	2	2	
27	10530030	Secondly Cylinder	2	2	
28	10520108	Socket Set- screw M8*10	4	4	
29	11520024A	Pin For Pulley	4	4	
30	10530042	Bronze Bush Φ41.3*Φ35.1*28	8	8	
31	10530012	Slider	8	8	
32	10520103	Hex Bolt M20*90	8	0	
	10510016	Hex Bolt M20*140	0	8	
33	10420175A	Hex Nut M20	12	12	
34	11540005D	Power-side Platform	1	0	
	11530040		0	1	
35	10420157	Steel Ball	58	0	
36	11570003	Rear Slip Plate	2	0	
37	11520037	Pin for Rear Slip Plate	4	0	
38	11560003	Plate for Adjustable Turnplate	2	0	

Item	Part#	Description	QTY		Note
			PX12A	PX12	
39	11530001B	Runway Connecting Bar	1	1	
40	10206023B	Hex Nut M12	8	8	
41	10420026	Lock Washer Φ12	8	8	
42	10206006	Washer Φ12	8	8	
43	10420136	Hex Bolt M12*45	12	8	
44	11520005A	Drive-in Ramp(On surface/Flush mount)	2/0	0	
	11510004A		0	2/0	
44A	10209010	Snap Ring Ø10	8	12	
44B	11620043	Pin for Drive-in Ramp roller	4	4	
44C	11610667	Drive-in Ramp roller	4	4	
45	11510006	Pin For Drive-in Ramp	2	2	
46	10201005	Split Pin 4*50	4	4	
47	11510018	Guild Ramp (On surface/Flush mount)	0/2	0	
	11510019		0	2/2	
48	11520004A	Tire Stop Plate	2	0	
49	10209059	Anchor Bolt 3/4*5-1/2	14	14	
50	10620071	Anchor Bolt M10*100	4	4	
51	10420047	Quick Fitting for Air Cylinder	2	2	
52	10520065	Spring Air Line	2	2	
53	10510036	Air Line (Black) Φ6*Φ4*8100mm	1	1	
54	10420124	T-fitting	1	1	
55	10520069	90° Quick fitting for air line	1	1	
56	10620079	Straight Fitting 1/4JIC(M) *1/4JIC(M)	6	6	
57	10203119-01	Oil Hose No.① 1/4"*4450mm	1	1	
58	10540020-01	Oil Hose No.② 1/4"*4200mm	1	1	
59	10540019-01	Oil Hose No.③ 1/4"*4500mm	1	1	
60	10570022-01	Oil Hose No④ 1/4"*5960mm	1	1	
61	10570023-01	Oil Hose No.⑤ 1/4"*6100mm	1	1	
62	10570024-01	Oil Hose No.⑥ 1/4"*6300mm	1	1	
63	10510023	Straight Fitting of oil hose	2	2	
64	1003245004	Metal bellows Φ25.5Φ20*530	2	2	
65	10540023-01	Oil hose 1/4*600mm	2	2	
66	10420119	Straight Fitting for cylinder 3/8NPT(M)*1/4JIC(M)	2	2	
66A	10540021-01	Oil hose 1/4*3600mm	2	2	
66B	10540030-01	Oil hose 1/4*600mm	2	2	
67	10420076	90° Fitting For Air Line	1	1	
68	10420145	Oil-water Separator	1	1	
69	10420146	Straight Fitting for air line	1	1	
70	10680005	Cup Head Bolt M6*10	4	4	
71	10420097	90° Fitting 1/4NPT(M)*1/4JIC(M)	4	4	
71A	10510024	Fitting G3/8-19(M)*1/4NPT(F)	2	2	
72	81523055	Power Unit 220V	1	1	
	81523057	Power Unit 220V			
	81523056	Power Unit 380V			
73	10440009	Straight Fitting for power unit 3/8SEA$^{O/R}$(M)*1/4NPT(M)	2	2	
74	10540500A	Parts box (On surface installation)	1	0	
75	10530500A	Parts box (On surface installation)	0	1	

Item	Part#	Description	QTY		Note
			PX12A	PX12	
76	11217235	Extended straight fitting J0067:1/4NPT(M)*1/4NPT(F) L=65	2	2	
77	1061K050	Hex Bolt M8*30	4	4	
78	10209033	Washer Φ8	8	8	
79	10209005	Self locking Nut M8	4	4	
80	10209062	T- Fitting	2	2	
81	10680065	Tee Valve	2	2	
82	1052K027	90° Fitting 1/4NPT(M)*1/4NPT(F)	2	2	
83	10420018	Self locking Nut M6	2	2	
84	10510039	Cup Head Bolt M3*16	3	3	
85	11540029	Oil hose cover	1	1	
86	11570618	Oil hose cover(L=605m)	2	2	
87A	10620065	Shim(2mm)	20	20	
87B	10201090	Shim(1mm)	20	20	
88	11540025	Oil Hose Cover (L=750)	1	1	
88A	11540027	Oil Hose Cover(L=1060mm)	3	3	
89	10620070	Colloidal screw ϕ	36	36	
90	10620069	Wood Screw M4*30	36	36	
91	10540501A	Parts box（Flush mount installation）	1	0	
92	10530501A	Parts box（Flush mount installation）	0	1	
93	11420158	Turplate (optional)	2	0	
94	11580090	Adjusting Block for Turnplate	4	0	
95	11580097	Adjusting Block for Turnplate 1	4	0	
96	11520116	Adjusting Block for Turnplate 2	4	0	
107	1003245001	Metal bellows φ25.5φ20*140	2	2	
108	1003245002	Metal bellows φ25.5φ20*400	4	4	
109	1003245003	Metal bellows φ25.5φ20*600	2	2	
110	11440090	Limit rod	4	0	

1. CYLINDERS

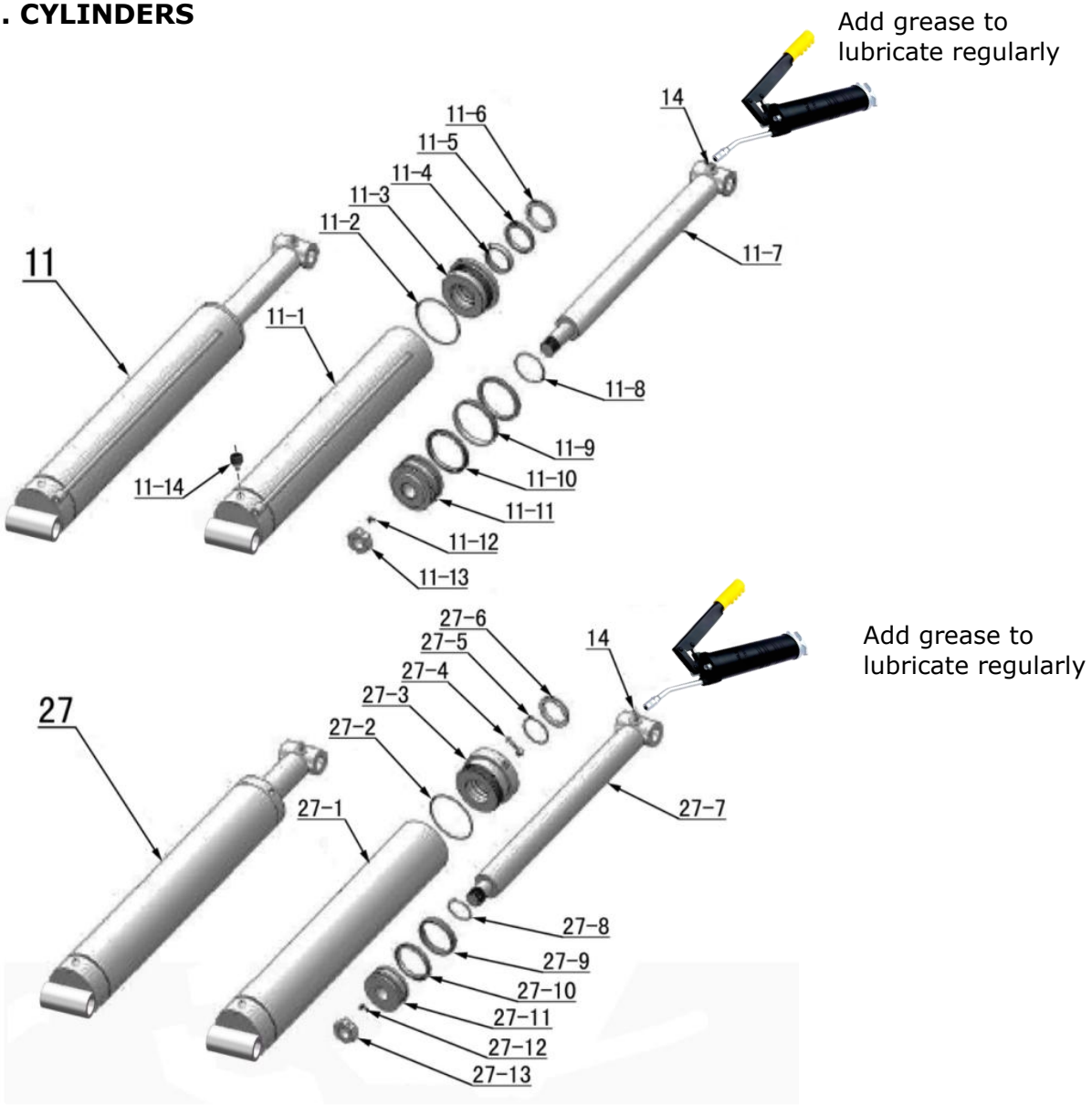


Fig. 42

Parts List For Main Cylinder				
Item	**Part#**	**Description**	**Qty**	**Note**
11-1	11530032	Main Cylinder	1	
11-2	10530025	O- Ring (φ98*5.3)	1	
11-3	11530033	Head Cap（Main）	1	
11-4	10530028	Support Ring φ60*φ66*15	1	
11-5	10530024	Y- Ring φ60*φ70*6	1	
11-6	10530026	Dust Ring φ60*φ68	1	
11-7	11530034	Piston Rod (Main)	1	
11-8	10520054	O- Ring	1	
11-9	10530027	Support Ring φ94*φ100*15	1	
11-10	10520063	Y- Ring φ85*φ100*9	2	
11-11	11530035	Piston (Main)	1	
11-12	10520049	Set Screw M8*10	1	
11-13	10520047	Hex Nut M36 (main)	1	
11-14	10530009	Burst valve G3/8	2	

Parts List For Secondly Cylinder				
Item	**Part#**	**Description**	**Qty**	**Note**
27-1	11530036	Secondly Cylinder	1	
27-2	10420062	O- Ring φ82.5*3.5	1	
27-3	11530037	Head Cap (Secondly)	1	
27-4	10201034	Bleeding Plug	2	
27-5	10520058	O- Ring φ45*3.55	1	
27-6	10217078	Dust Ring	1	
27-7	11510011B	Piston Rod (Secondly)	1	
27-8	10520061	O- Ring φ45*3.55	1	
27-9	10420066	Support Ring φ74*φ80*15	1	
27-10	10420067	Y- Ring φ70*φ80*6	1	
27-11	11530039	Piston (Secondly)	1	
27-12	10520049	Set Screw M8*10	1	
27-13	10420014	Hex Nut M27 (Secondly)	1	

2. CONTROL CABINET

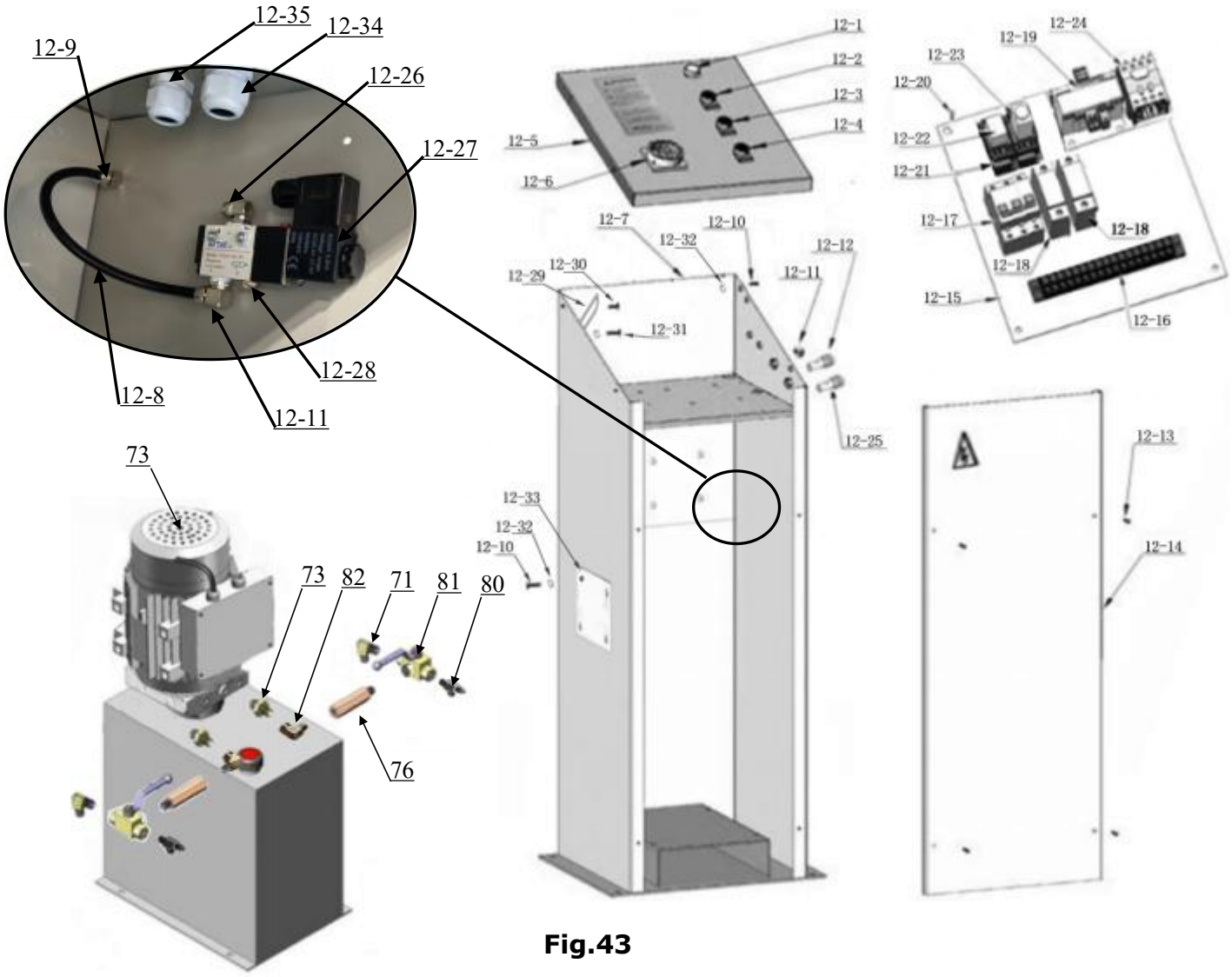


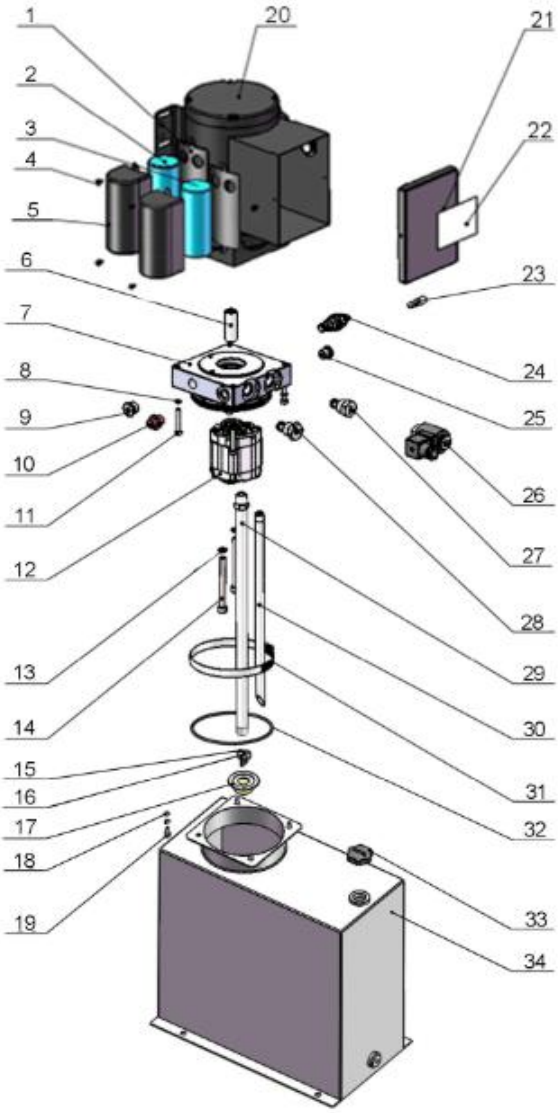
Fig.43

Parts of control cabinet

Item	Part#	Description	QTY	Note
12-1	10201094	Power indicator	1	
12-2	10420071	Button **UP**	1	
12-3	10420071	Button **LOCK**	1	
12-4	10420072	Button **DOWN**	1	
12-5	11510724	Control Panel	1	
12-6	41010217	Power Switch (QS)	1	
12-7	11510701	Cabinet Body	1	
12-8	10420167C	Air line Φ6*Φ8*200㎜	2	
12-9	1061K110	Straight Fitting	1	
12-10	10420153	Cup Head Bolt M6*20	4	
12-11	10420076	90° Fitting	2	
12-12	10420143	Buzzer	1	
12-13	10720038	Cup Head Bolt M6*30	4	
12-14	11510693	Cabinet Door	1	
12-15	11510754	Install panel	1	
12-16	10620082	Terminal	1	
12-17	10202047	Breaker 3P (only for 3 Phase)	1	
	10202046	Breaker 2P (only for Single Phase)	1	
12-18	10202049	Breaker 1P	2	
12-19	10580114	Transformer (TC)	1	
12-20	1061K052	Cup head bolt	19	
12-21	10420135	Timer Relay Base	2	
12-22	10420141	Intermediate Relay(KA)	1	
12-23	10420083	Timer Relay(KT)	1	
12-24	10420084A	AC Contactor (KM)	1	
12-25	10420142	Down Alarm Button Pass	1	
12-26	10420166	90° Fitting	1	
12-27	10420077	Air Solenoid Valve(Y2)	1	
12-28	10201034	Bleeding	1	
12-29	11510691	Support plate for electrical components	1	
12-30	1061k108	Hex Bolt M6*12	1	
12-31	10217066	Hex Bolt M6*15	1	
12-32	10420018	Hex Nut M6	6	
12-33	11510757	Cabinet cover	1	
12-34	10720095	Cable connector M24*1.5	2	
12-35	10420088	Cable connectorM20*1.5	1	

3. POWER UNIT

220V/50HZ/1Phase



380V/50HZ/3 Phase

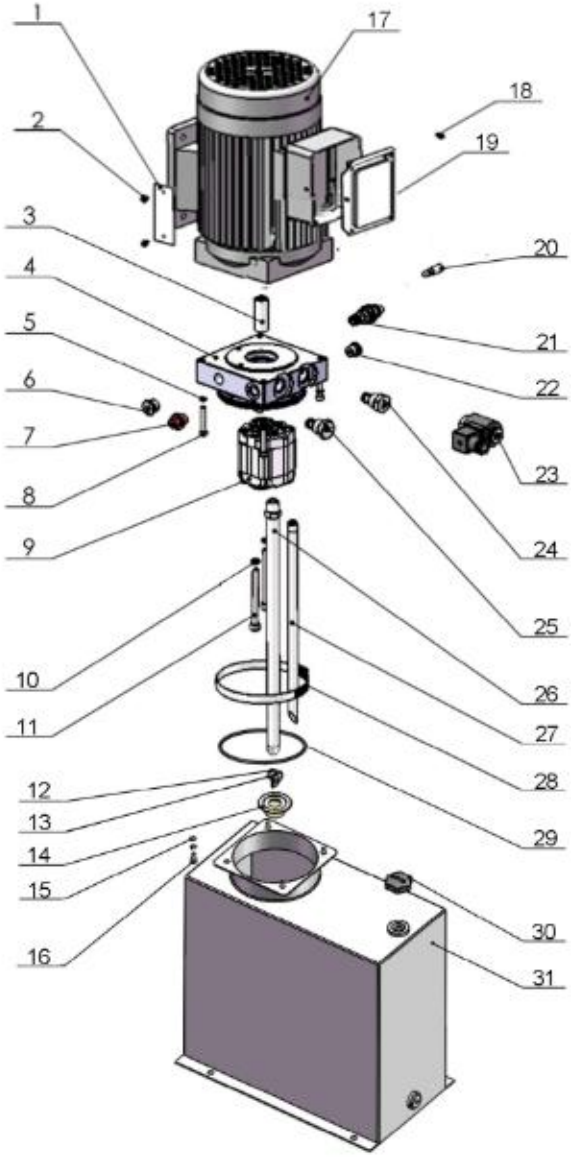


Fig.44

220V/50HZ /1Phase Electric Power Unit Parts list

Item	Part#	Description	Qty.	Note
1	81400180	Rubber Pad	2	
2	81400250	Start capacitor	1	
3	81400200	Run Capacitor	1	
4	10420148	Cup head bolt with washer	6	
5	81400066	Protective cover for capacitor	2	
6	81400363	Motor Connecting Shaft	1	
7	80101027	Manifold Block	1	
8	81400333	Iron Plug	4	
9	81400266	Relief Valve	1	
10	81400566	Check Valve	1	
11	81400420	Solenoid valve coil	2	
12	81400423	Release Valve	2	
13	10209149	Spring Washer φ6	4	
14	85090142	Socket bolt M6*35	4	
15	81400292	Gear Pump	1	
16	10209034	Lock Washer φ8	2	
17	81400295	Socket Bolt M8*80	2	
18	10420152	Washer	4	
19	81400438	Hex Nut M5*10	4	
20	81400413	Motor	1	
21	81400287	Cover of Motor Terminal Box	1	
22	71111230	AMGO Nameplate	1	
23	81400560	Throttle valve	1	
24	81400259	Red Pug	2	
25	81400380	Oil Suction Pipe	1	
26	81400376	Oil return pipe	1	
27	81400365	O Ring	1	
28	10209152	Tie	1	
29	85090167	Magnet	1	
30	81400290	Fliter	1	
31	81400263	Oil tank cover	1	
32	81400327	Oil Tank	1	

380V/50HZ /3hase Electric Power Unit Parts list

Item	Part#	Description	Qty.	Note
1	71150055	AMGO NAME PLATE	1	
2	81400300	Cuphead Bolt	2	
3	81400363	Motor Connecting Shaft	1	
4	80101027	Manifold Block	1	
5	81400333	Iron Plug	4	
6	81400266	Relief Valve	1	
7	81400566	Check Valve	1	
8	81400420	Solenoid valve coil	2	
9	81400423	Release Valve	2	
10	10209149	Spring Washer φ6	4	
11	85090142	Socket bolt M6*35	4	
12	81400292	Gear Pump	1	
13	10209034	Spring Washer φ8	2	
14	81400295	Socket Bolt M8*80	2	
15	10420152	Washer	4	
16	81400438	Hex Bolt M5*10	4	
17	81400309	Motor	1	
18	10420148	Cuphead Bolt with washer	2	
19	81400208	Cover for Terminal Box	1	
20	81400560	Throttle Valve	1	
21	81400259	Red Plug	2	
22	81400380	Oil Suction Pipe	1	
23	81400376	Oil return pipe	1	
24	81400365	O Ring	1	
25	10209152	Tie	1	
26	85090167	Magnet	1	
27	81400290	Fliter	1	
28	81400263	Oil tank cover	1	
29	81400327	Oil Tank	1	

V. TEST RUN

1. Preparation before Synchronous adjustment

a. 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# .**

b. Turn the power on, push button **UP** to check if the rotated direction of motor is correct. If the rotated direction is wrong, shut off the power, exchange the phase connection of the motor, then fill oil and air exhaust adjustment.

c. Lowing down both platforms to lowest level.

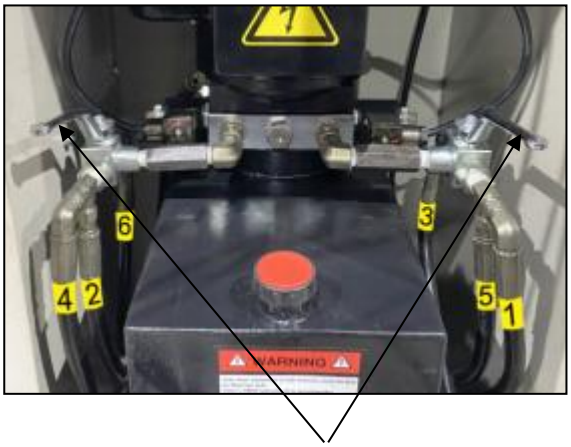
2. Synchronous adjustment

a. Turn the handles of the Tee valves to the position as **Fig. 45** (Oil filling position), push **UP** button to start filling oil in the cylinder, until the platform starts to rise. And then push **Down** and **Pass** button about 5 seconds while hearing the buzzer sound and the sounds of inside air exhaust from oil tank . Repeat this steps 2-3 times until the inside air are all exhaust.

b. Tap **UP** button, until the platform just be lifted up.

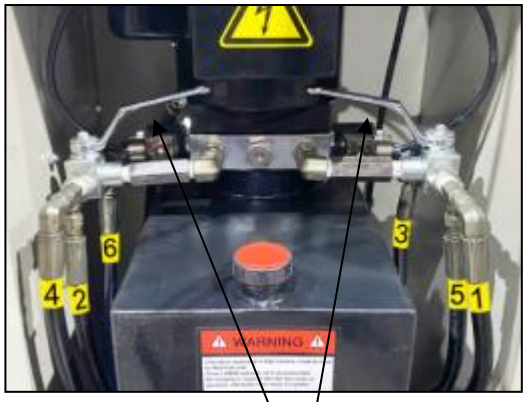
c. Turn the handle of Tee valves to the position as **Fig.46(Normal working position).** push **UP** button, if P1 ,P2 platform rise at the same time means the machine is synchronization. If still not, repeat steps a & b until both side of platforms are synchronization.

d. After P1,P2 platform are synchronization, operating the lift up and down without load.



Oil Filling Position

Fig. 45



Normal Working Position

Fig. 46

3. Test run

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

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(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.

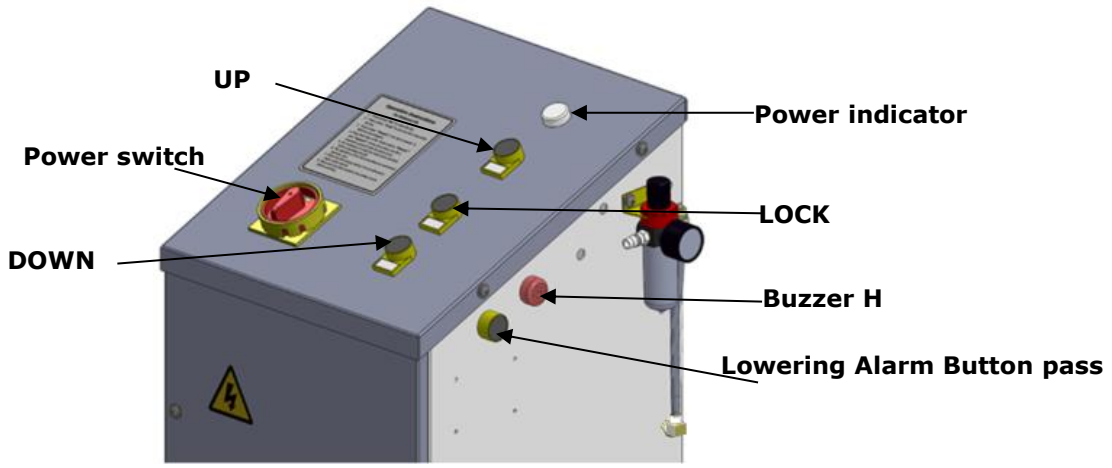


Fig. 47

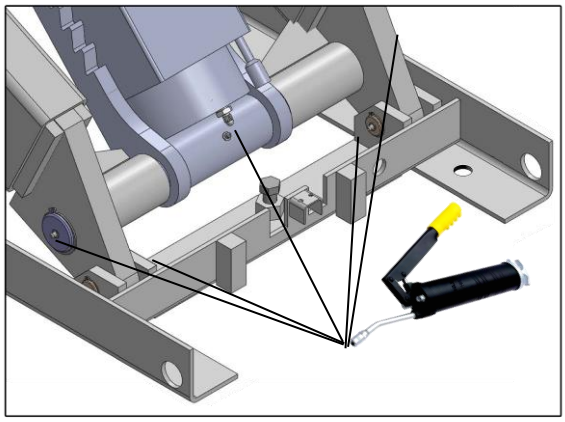
VII. MAINTENANCE SCHEDULE

Monthly:

1. Re-torque the anchor bolts to 150 Nm.
2. Check all fittings, bolts and pins to insure proper mounting.

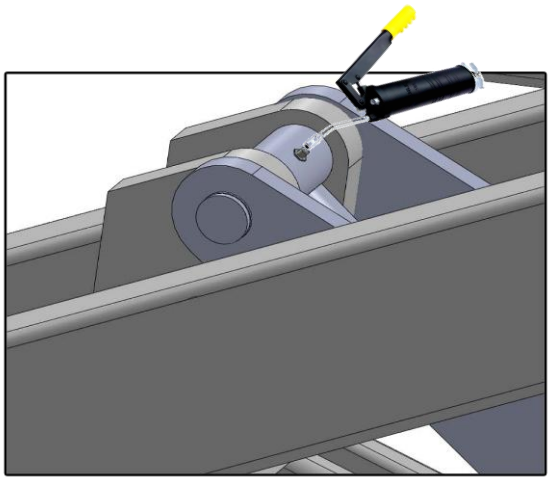
   Note: All anchor bolts should take full torque. If any of the bolts does not function for any reason, **DO NOT** use the lift until the bolt has been replaced.
3. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage.
4. Adjusting the lifting level on both platforms.
5. Lubricate all moving parts with lubricant **(Sea Fig. 48-53)**.

   Each scissor 16 positions, total 32 positions for 1 lift.



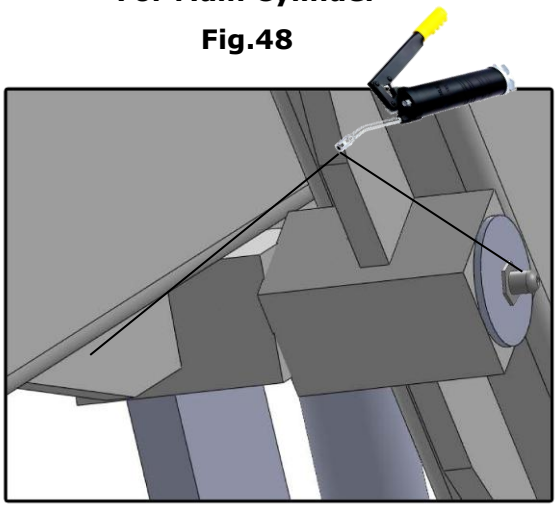
For Main Cylinder

Fig.48



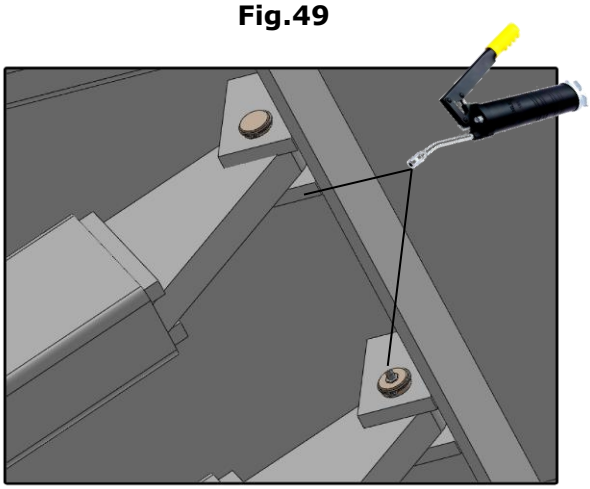
For shaft of piston rod of Main cylinder

Fig.49



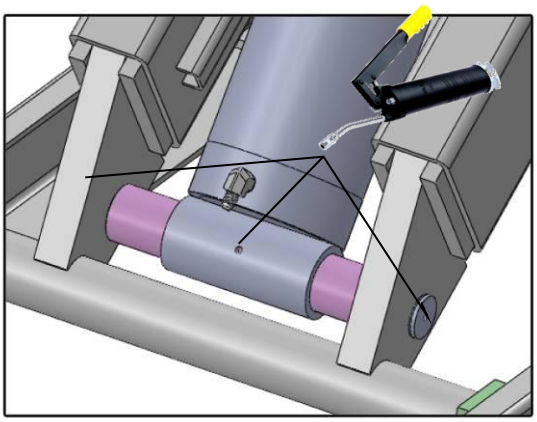
For pins of connecting platforms and scissors

Fig. 50



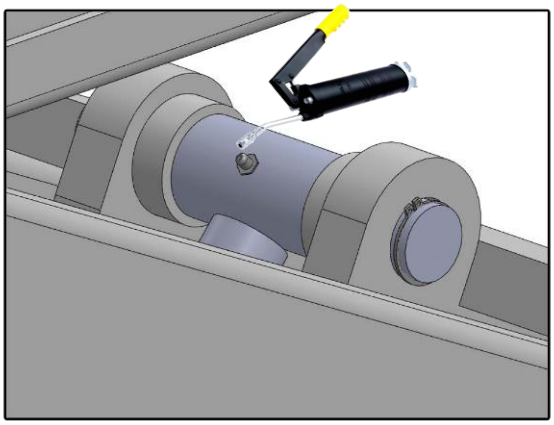
For pins of connecting platforms and scissors

Fig. 51



For Secondly Cylinder

Fig.52



For shaft of piston rod of Secondly cylinder

Fig.53

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.

Oil cylinder maintenance:

In order to extend the service life of the oil cylinder, please operate according to the following requirements.

1. Recommend to use N46 anti-wear hydraulic oil.
2. The hydraulic oil of the lifts should be replaced regularly during using. Replace the hydraulic oil 3 months after the first installation, Replace the hydraulic oil once a year afterwards.
3. Make at least one full trip raising and lowering per day. For exhausting the air from the system, which could effectively avoid the corrosion of the cylinder and damage to the seals caused by presence of air or water in the system.
4. Protect the outer surface of the oil cylinder's piston rod from bumping and scratching, and timely clean up the debris on the oil cylinder dust-ring and the piston rod.

VIII.TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	1.Start Button does not work 2.Wiring connections are not in good condition 3. AC contactor burned out 4. Motor burned out	1. Replace Start button 2. Repair all wiring connection 3. Replace AC 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 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.Low Air pressure	1. Repair or replace the Valve 2. Repair or replace the Valve 3. Repair or replace 4. Check the air line

IX. 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.

PEAK CORPORATION

No. 3 Luomu Road,Shishan Town,Nanhai District,Foshan(528225),Guangdong,China

Tel:86-757-81102815 8112805

Fax: 86-757-81102809

Email:peak@peaklift.cn http://www.peaklift.cn

Manual Part No.: 72215310

Revision Date: 2023/08