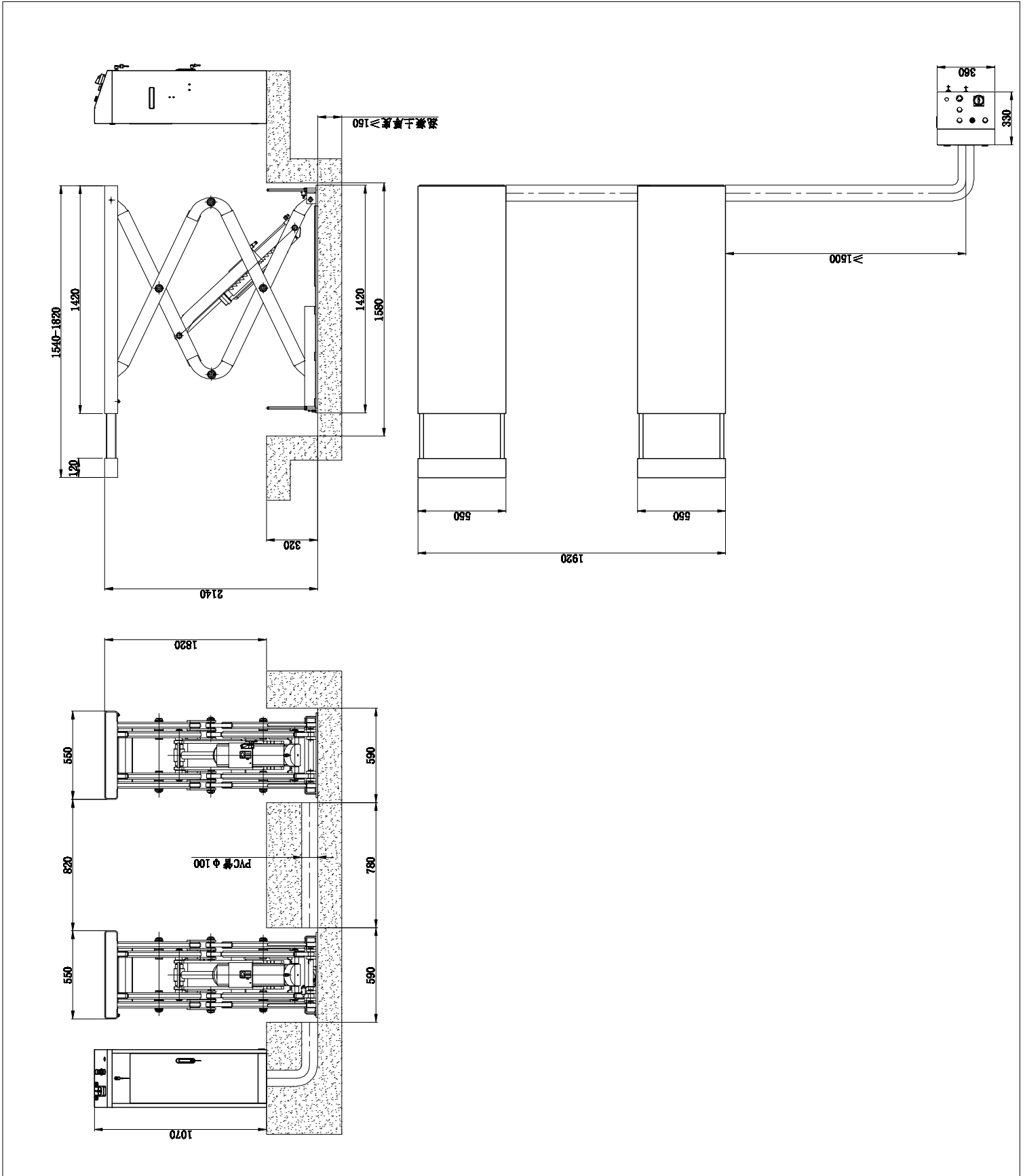




**INSTRUCTIONS AND MAINTENANCE MANUAL**  
**HYDRAULIC SCISSORS LIFT,**  
**IN GROUND**

**Art. No. 0900700118**

# Installation Layout



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## General Information

### 1.1 Application

This lift is designed for the purpose of lifting light vehicles under 3.6 tons for vehicle test, service and cleaning.

### 1.2 Features

- The lift features advanced design, durability, compact layout.
- Surface installation and saving space.
- Hydraulic system keeps both platforms level.
- Mechanical protection device throughout the travel distance.
- The working table has the extension function
- Limit high insurance device to protect the machine from being damaged.
- Automatic lubricating system and oil-less bearings.

### 1.3 Specifications

Max lifting weight(kg)	Max lifting height(mm)	Up time(s)	Down time(s)	Power (kw)	Number of platform(pcs)	Size for platform (mm)	Dead weight(kg)	Synchronization Precision (mm)	Height difference (mm)
3000	≤2000	≤60	≥20	2.2	2	1540x1820x538	860	<40	≤8

#### Electric specifications:

Motor (Optional): 2.2kw

Voltage options according to different voltage

Single-phase/3-phase 220v/380v 50Hz

Noise

Noise: ≤75dB (A)

#### Hydraulic System

Max. Working Pressure: 28 MPa, Flow rate:  $\geq 5-6\text{L}/\text{min}$ .

### Pneumatic System

Working Pressure:  $5\text{ kgf}/\text{cm}^2$

! Notice: At the bottom position, the max load of the lift is 1T。

## 1.4 Environment requirements

Temperature:  $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$

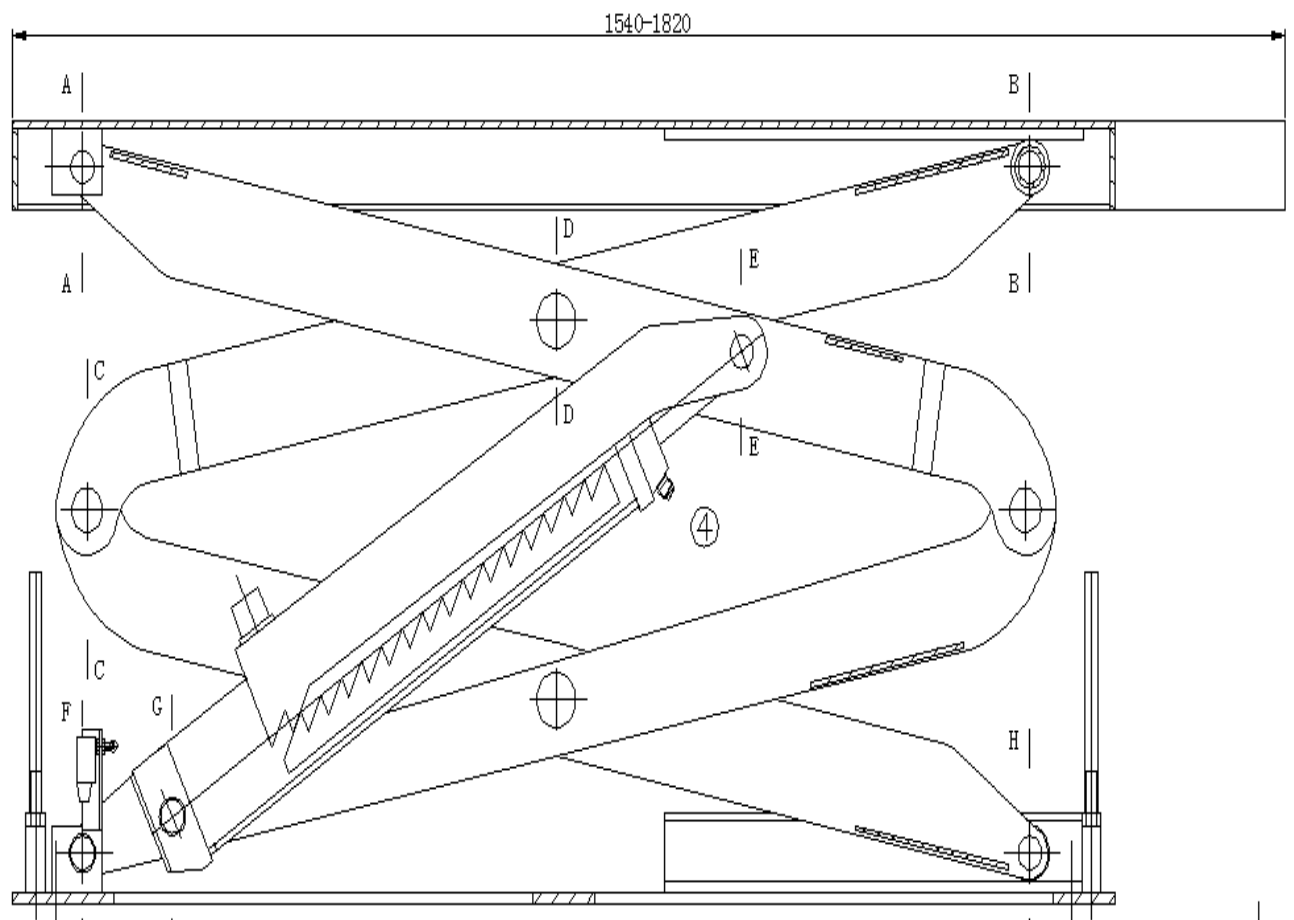
Relative Humidity:  $\leq 80\%$  at  $30^{\circ}\text{C}$

Transportation/Storage Temperature:  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Altitude:  $\leq 2000\text{m}(78740\text{'})$

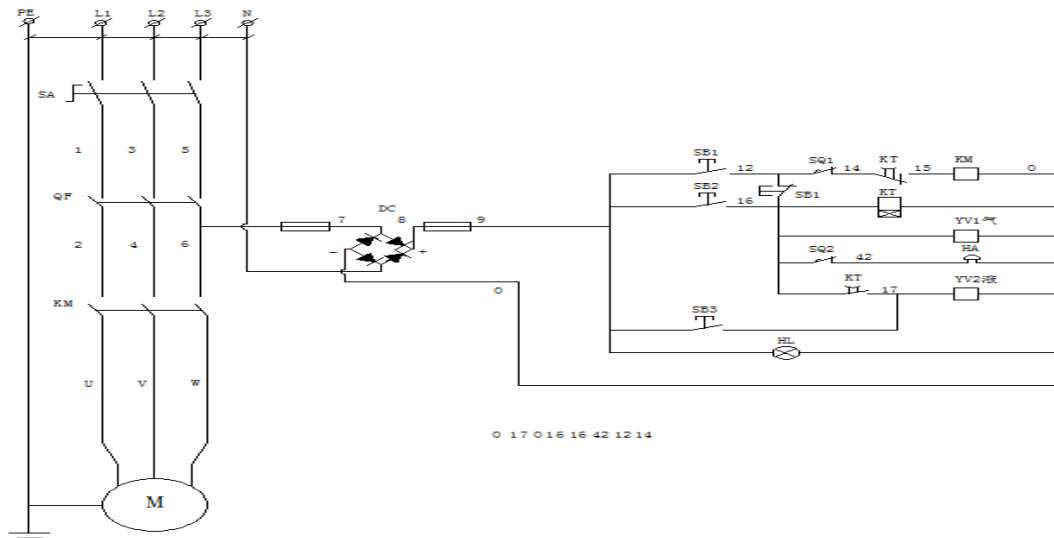
## 2 Structure

### 2.1 Layout



Pic.1

### 2.2 Electrical Diagram



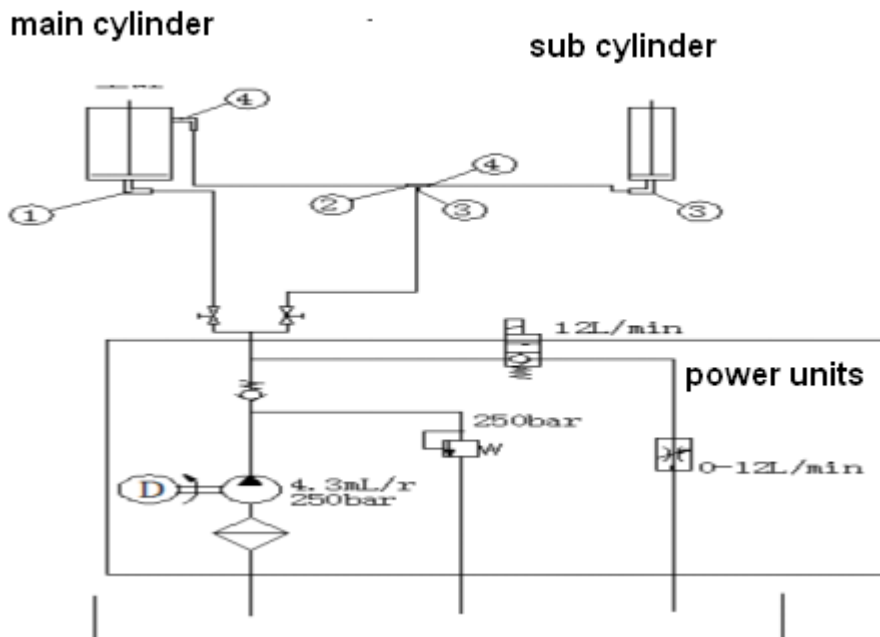
Pic.2

Lifting: press the up button SB1, the motor will drive the gear pump to provide the oil. and then the cylinder will push the lift up. Loosen the button SB1, the lift will stop going up. If continue press the SB1 button, the lift will raising to the Max height which will touch SQ1 switch, the motor stop, the lift stop going up, the lift will under protection

Insurance procedure: Loosen SB1 when in suitable height, Press the insurance button SB3, the solenoid valve combine the line YV1 and YV2, then the lift begin to go down. But at this time the safety gear cover is not open, the gear mesh, to prevent the decline of the platform, then you can enter the repair work

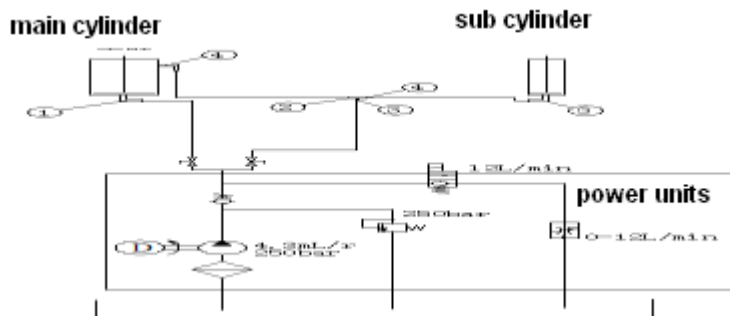
Lowng procedure: Press the up button SB1, the lift will be up, to make the gear open. then press the down button. Cylinder valve YV3 will connect with power, the safety gear will fully open, solenoid valve YV1 connect, the lift begin to down

### 2.3 Hydraulic working principle



Pic.3

## 2.4 Tubing wiring diagram



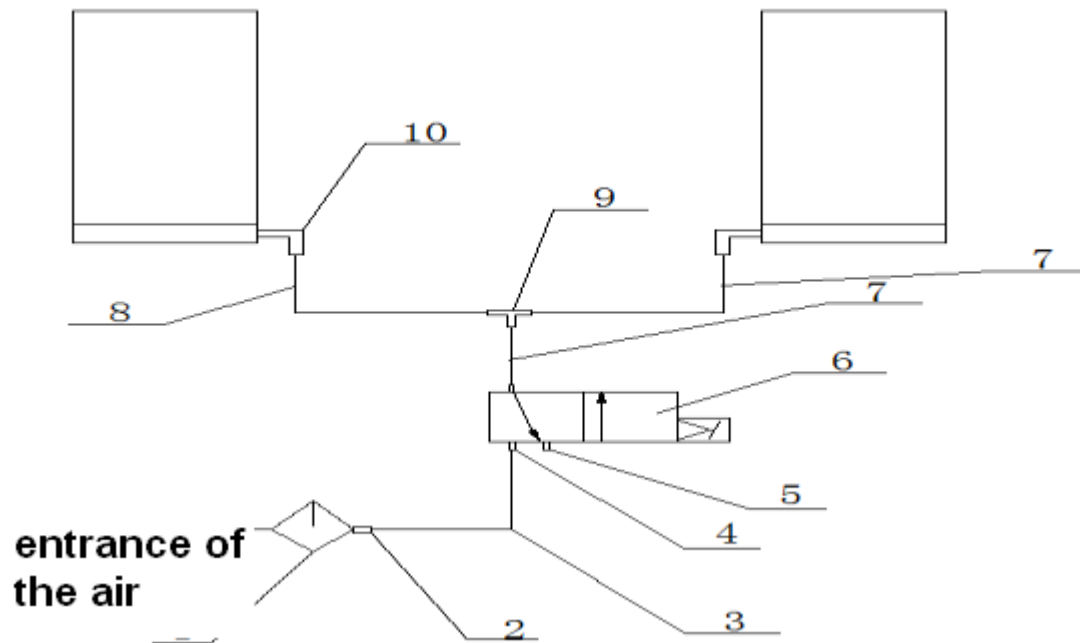
During normal operation, the main loop of the stop valve is open, sub loop then will be closed (Counter clockwise to open, clockwise to close). If the hydraulic system come across lifting problem or power failure, Need use a jack to open the safety gear ,use something to hold and do not make the insurance tooth mesh when lowering, And then rotate the emergency return oil to make the small cut down. The down speed can be adjusted by adjust valve .Should be careful to operate and keep safety when do oil supplement and adjustment(fic.4)

### Hydraulic oil cylinder adjustment:

When need fill oil to the sub cylinder, Fully closed the main loop of the combined valve plate, open the sub loop, press the up button fill oil leveling; if

the oil is too much, then press the down button to reduce some. After finished adjustment, Turn the sub circuit of the combined valve plate to the closed state. Then turn the main valve to the open status. Fill oil leveling work is done

### 2.5 Pneumatic principle diagram (Pic.5)



Pic.5

### 3. Install tools and unpacking

Please prepare the following regular tools to complete the installation and commissioning smoothly.

tools	Specification
Iron Level meter	L=400
Chalk line	10mm
Rotary hammer drill	
Hammer	1.5 kg
Adjustable wrench	40mm
Open-end wrench kit	11mm-23mm
Six square wrench set	2mm~12mm
Flat head screwdriver	150mm



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Rotary hammer	20mm
Concrete drill-bit	Φ17mm
frame level (JB3239-83)	LxWxH=300x40x300(11.8"x 0.16"x 11.8")

### 3.2.Open the box

- Packed in one package,the control box ,oil hose ,and platform are all connected and tested.
- Open the package,remove the packing material to check the lift for any damage during the transportation
- Place the packing material away from children to prevent any danger.Properly dispose of the packing materials that may cause pollution

## 4.Installation

### 4.1 General location

Install the lift as the following steps

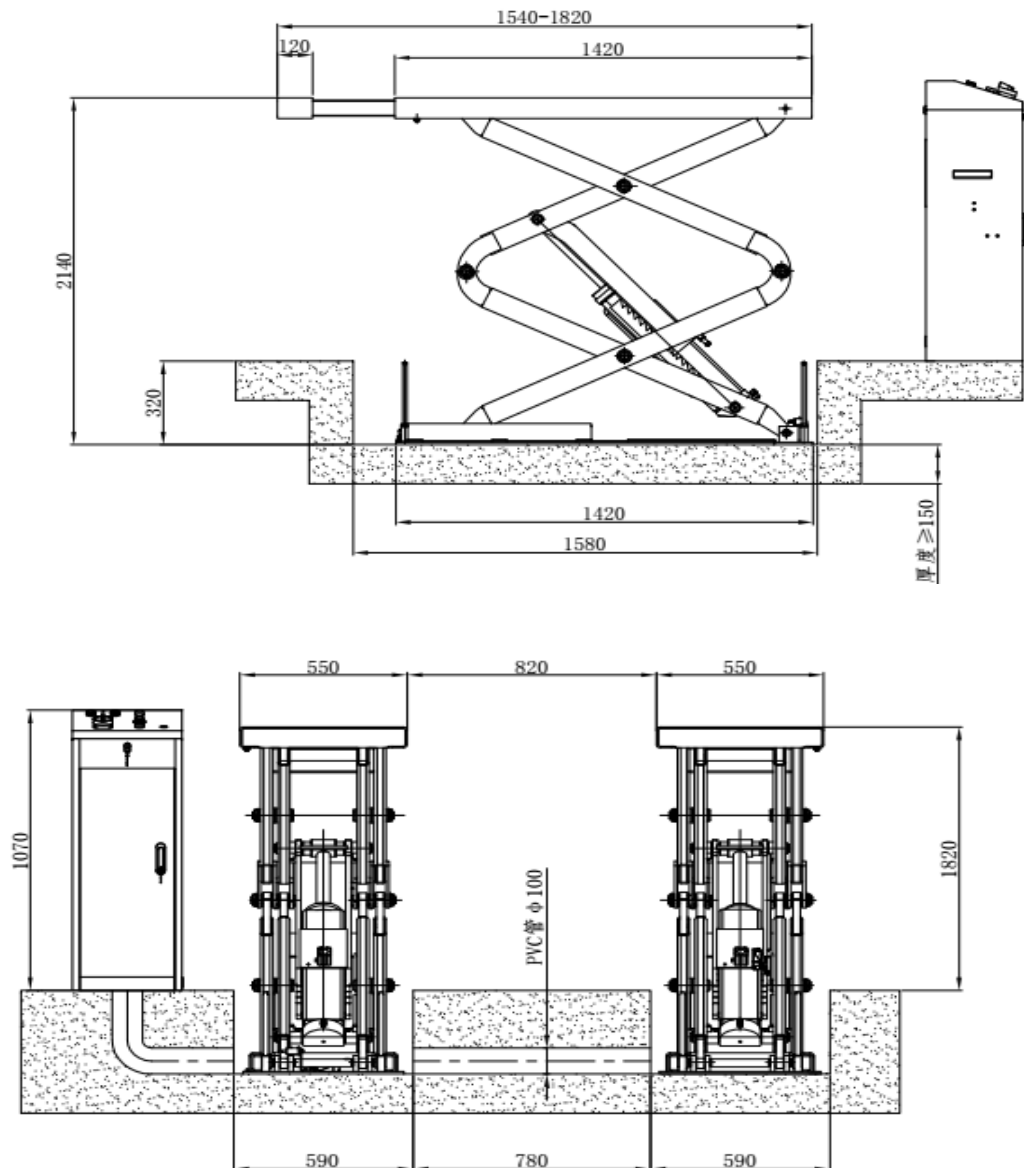
- The lifting machine can only be installed on the concrete floor, the minimum thickness of the concrete slab is 200mm, and the minimum curing time is 7 days.
- The strength of the concrete ground should exceed 3000PSI
- the tolerance of the concrete floor levelness should not exceed 5mm (0.2"). Slight slope can be corrected with shims. Excessive slope on the ground will greatly affect the performance of the lift. In this case, new concrete slab should be made
- Inspect for possible hindrance such as low ceiling, overhead pipelines in the work area, passageways and escapes. The working area of the lift should be 4.m(165.4") high to give enough space.
- Allow enough space at the front electrician.
- Power should be prepare before install.Electrical wiring should be conducted by certified electrician.
- The overall layout of the machine (see Figure 6) and the size of the tunnel layout (Figure 7) (simple type and complex type according to the installation of foundation is shown in the picture, for the user to choose ), put the main,sub engine in the trenches,

## WÜRTH IN GROUND SCISSORS LIFT

Put the tubing and switch from the wire embedded pipe piercing.

### ATTENTION:

- ◆ The thickness of concrete more than 180mm ( , The strength of the concrete ground should exceed 3000PSI, the degree of the ground should less than 5MM,
- ◆ Use the lifting equipment to put lift into the pit



Pic.6

### 4.2.2 Control Desk Installation

- Place the control desk in place according to the ground layout and local power requirements
- Open the rear door control box, Then connect 4x2.5mm power line to

L1.L2.L3.PE.Check the connection after the power supply. turn on the power switch (on the right side of control box).Then the operation panel indicator lights.

- Add the appropriate amount of DTE 24 hydraulic oil or hm32 anti wear hydraulic oil into the oil tank(user prepare themselves).using oil dipstick to check the level). Pay special attention to avoid dust and contaminants into the oil.
- Press the up button after the hydraulic oil hose finished installment test the electrical parts: if motor does not operate, abnormal sound, platform does not rise, motor is hot, STOP operating immediately and check the wire connection.

 **ATTENTION:**

1. *High voltage in control desk, ground lead must be safe.*
- 2 The hydraulic oil: recommended Mobil hydraulic oil DTE 24 and L-HM 32 the Great Wall cuori antiwear hydraulic oil, or use the automatic gearbox oil. The oil pollution degree is the maximum allowable iso4406,21/19/16. please note: different brands and types of hydraulic oil will not allow mixed use

#### **4.2.3 Connecting hydraulic line**

- Hydraulic line:First, fill the oil in accordance with the requirements and capacity injection ,then put the sub-cylinder oil tube to(oil joint NO.1)the control box hydraulic joint(Z1) Tighten connections to prevent leakage of oil to ensure reliability connections.Check the initial state of the high pressure cut-off valve(The initial state : the main circuit is turned on, the secondary circuit is closed)
- Press the up button, the host platform will be raised to 1.5 meters height stop, press the lock button, so that the mechanical insurance
- Connect the remaining tubing according to the line in the diagram and tighten all the joints to prevent leakage.。
- Adjust length about 8 support bar, keep the minimum height at 330 mm.
- Adjustment of the top level,insert suitable washer in the low ground make sure the surface height of less than 5mm.

#### **4.2.4 Install anchor bolts**

- Wrap the oil fittings, cable connections andjoints of the lift to prevent dusts from getting in

## WÜRTH IN GROUND SCISSORS LIFT

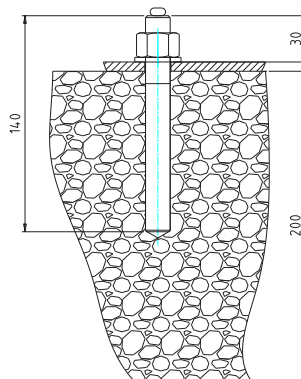
- Rotate the adjusting bolts, adjust the platform to same level, the equalization should less than 3mm (0.1"). Choose a right shim and place it under frame. Insert the shims at both sides of anchor bolt
- Tighten out the nuts to fix the base frames on the floor

 ATTENTION:

**Cautions: To ensure safety and performance, follow the installation procedures**

### **step by step**

- Wear safety goggles.
- Use strong alloy drill bit with a diameter of 18mm (0.71") . Do not use worn-out drill bit.
- Keep the hammer drill upright with the surface of the hole.
- Keep hammer drill going by itself. Do not apply extra pressure.
- The depth of the hole depends on the length of the bolt. It is advisable that the bolts above the base frames should be around 30mm (1.2").
- Remove the dust from the holes.
- Tap the bolt into the hole, insert and hit the core until the bolt fully expands



- Adjust lever and height of platform, insert the right bolts
- Tighten the nut using a torque wrench, and move the hand torque to 50n.m.

### **4.2.5 Connecting pipe**

- According to the pneumatic principle diagram connecting the air tube
- Adjust gas processing output pressure to 5 kgf/cm<sup>2</sup>. g
- Press the down button, to see whether insurance cover cylinder action is normal; if not, check the pipe connection is correct.

## 5 Test

### 5.1 Preparation before test

- Lubricate the moving surface of the roller with #2 lithium lubricant. Lubricant should be applied evenly from left to right.
- Lubricate the joints of the lifts with #2 lithium lubricant. Fill tank full with Oil N32 or N46
- Check the oil whether is full

### 5.2 Test step

- Check if all the connection bolts are tightly fastened.
- Press UP button, the platforms are raising; release the UP button, the platforms stop raising. Press DOWN button, the platforms are lowering
- Adjust the mounting plate(which have install with travel switch )(see machine configuration shown in Figure 1, arrows) so that the host platform switch trigger up to the proper height, cut off the oil cylinder pumping station to stop working, the platform stopped rising, so protect the machine
- The hydraulic system need exhaust the air due to have air for new installation, The main cylinder air through the rise and fall of repeated several times can be discharged. The exhaust process in the sub cylinder are as follows: the host stop at the most high position, then adjust minor loop (the combined valve plate) to the open status.Press the up button to fill oil , wait the machine rise to the top, then press the down button Adjust the sub machine to the lowest position, vice. Repeat three times or above Then can be exhaust the air in the sub cylinder .
- Adjust the amount oil of the sub machine, to make the platform in balance status
- Adjust the adjust minor loop (the combined valve plate) to working status,test finish



#### ATTENTION:

- For the first run, pay attention to the lowest position of the oil and air tubewhen operation, can not be stucked by the platform and other

components when going down

- When remove the air of the sub oil cylinder ,do not lift the main lift to the highest position, and the sub lift is unable to work due to reach the highest position that stroke the travel switch which will cut off the power of the motor
- When the air of the sub oil cylinder is removed out, once the sub lift is risen to the highest position, the up button should be released immediately, otherwise the pressure oil may damage the hydraulic cylinder
- When do sub cylinder air remove and adjust the main and sub lift balanced,First lift the sub lift at 1.5M height,Then insert the cardboard to the safety cover of the sub lift,which will make the safety gear not meshed,or press the down button to make the sub lift can not be went down.After exhausting air and adjust balance remove the cardboard

## 6 Operation

### 6.1 Preparatory Inspections

- Check for the synchronized and steady movement of the platforms
- Check the safety gear cover is reliable
- Check the platform whether can automatic stop rising when in the highest position
- Check for possible leakage in the cylinder, hoses and fittingsCheck for possible air leakage in the solenoid valve, cylinder, pressure regulator valve and fittings
- Check for any abnormal action and sound in pump and motor
- Check the emergency stop button is working properly.

## 6.2 Operational Procedures

- Keep speed below 5km/h when driving on the platforms。
- Check whether the lift platform located in the car chassis support position when the vehicle stops, .
- Put the rubber pad on the platform where vehicle locates .Press UP button to lift the vehicle to 200mm~300mm from the floor
- Check the vehicle and lift whether there is no abnormal action
- Continue pressing the up button, the vehicle will be raised to the required height then stop。
- Press the insurance button, lifts will going down, safety gear will mesh bosh side and keep balance for repairing work
- After the maintenance is done, keep the work area clear and safe before lowering lift

## 6.3 Safety Precautions

- The hydraulic relief valves are well-adjusted before leaving factory. The manufacturer will not be responsible for any damage caused by unauthorized adjustment
- Person do under car work should make the safety meshed when vehicle raising up
- Before lifting the vehicle rubber pads must be put on t, check the pad placed on the supporting point
- In case of any leakage in the hydraulic system, fix the problem and refill the oil to the proper level

## 7 Troubleshooting

Symptoms	Reasons	Solutions
The motor does not work.	Voltage is not correct. Fuse burning .Check all connections wire Motor is broken.	Supply power of correct voltage. Change Fuse. Repair and connection of all attachment Change motor.

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The motor works, but the platforms do not move or move slowly	The motor rotates in the wrong direction. Oil level is too low. High stroke switch card dead, damaged	Change wiring of motor to change direction. Add oil. Supply new switch
The motor works, but the platforms can not lift the vehicle.	The voltage to the motor is too low. Pressure of relief valve is not right. The lift is overloaded The hydraulic pump is damaged.	Supply motor with correct voltage. Adjust the pressure of relief valve. Check the weight of the vehicle. Replace the hydraulic pump.
Lowering speed is slow.	There is foreign substance in the lowering solenoid valve. Lowering speed valve is turned too low.	Clean the lowering solenoid valve.  Turn the lowering speed valve up.
Lifting speed is slow or oil spill.	Oil and air are mixed.	Change oil or eject air.
The platforms are not synchronized.	One cylinder has much more oil than another.	Adjust the oil in both cylinders according to manual.
Safety cover can not be open	Adjust valve cannot work Electromagnetic valve damage Press the safety gear button time to long	Adjust the pressure to 5 kg/cm <sup>2</sup> Repalce new electromagnetic valve Safety gear mesh should be immediately released after the release button

## 8 storage and Scrapping

### 8.1 Storage

When the lift needs to be stored for a long time

- Unplug from power socket
- Lubricate all the parts, including all the contact surface of the rollers。

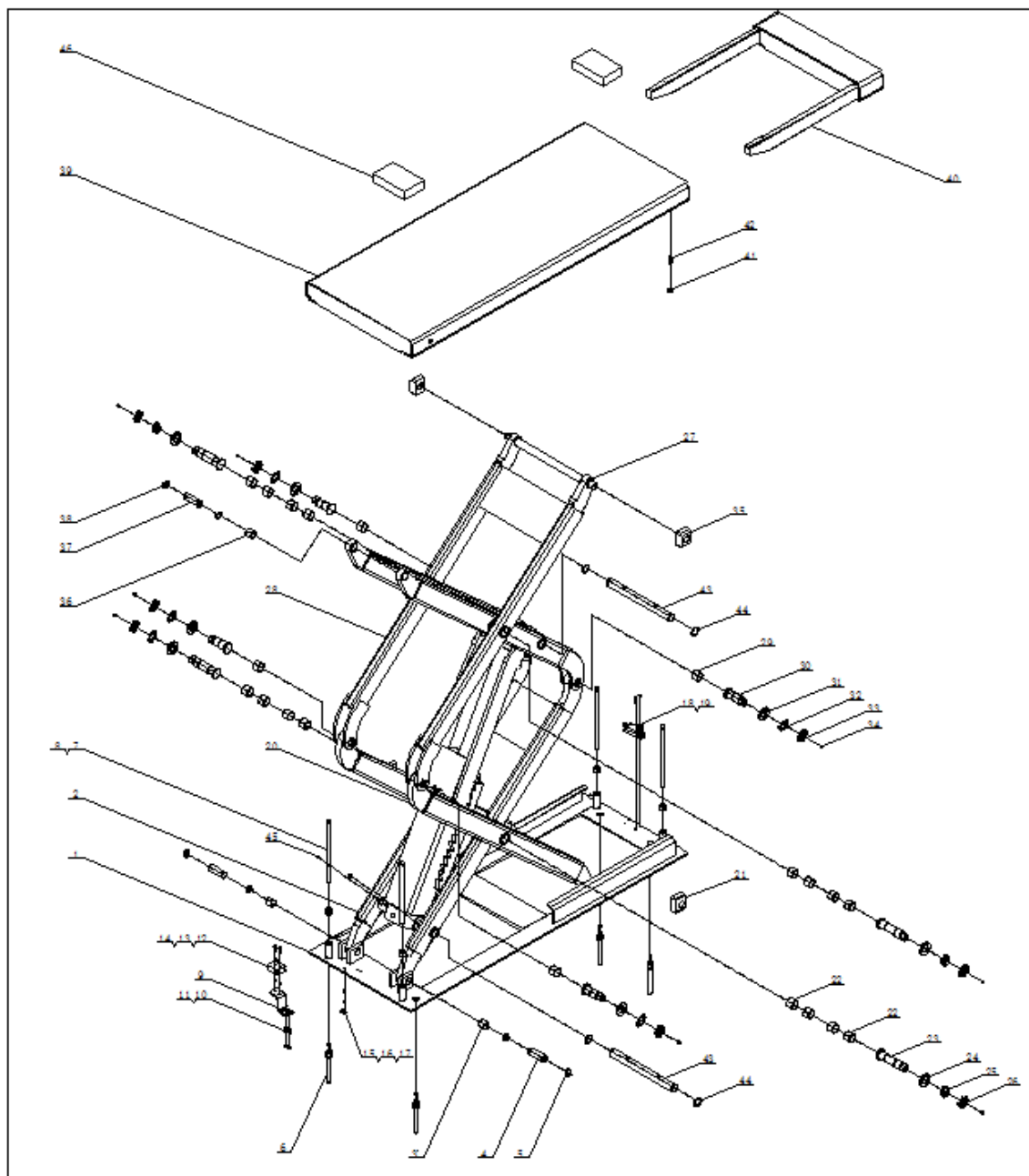


- Bleed oil from tanks。
- Cover the lift with plastic hood。

**8.2 Scrapping** When the lift has exceeded its lifespan and can not be used any more, disconnect it from the electrical supply and dispose of as required by the local regulations

## **9, Spare parts**

WÜRTH IN GROUND SCISSORS LIFT



1	QWJ630N-110-00/QWJ630N-230-00	QWJ630N1001	base frame	1
2	QWJ630N-120-00	QWJ630N1002	connecting rod	2
3	SF-1	QWJ630N1003	composite bush 28*25*25	4
4	QWJ635-000-02	QWJ630N1004	short axle	4
5	GB/T 894.1	QWJ630N1005	shaft ring 25	8

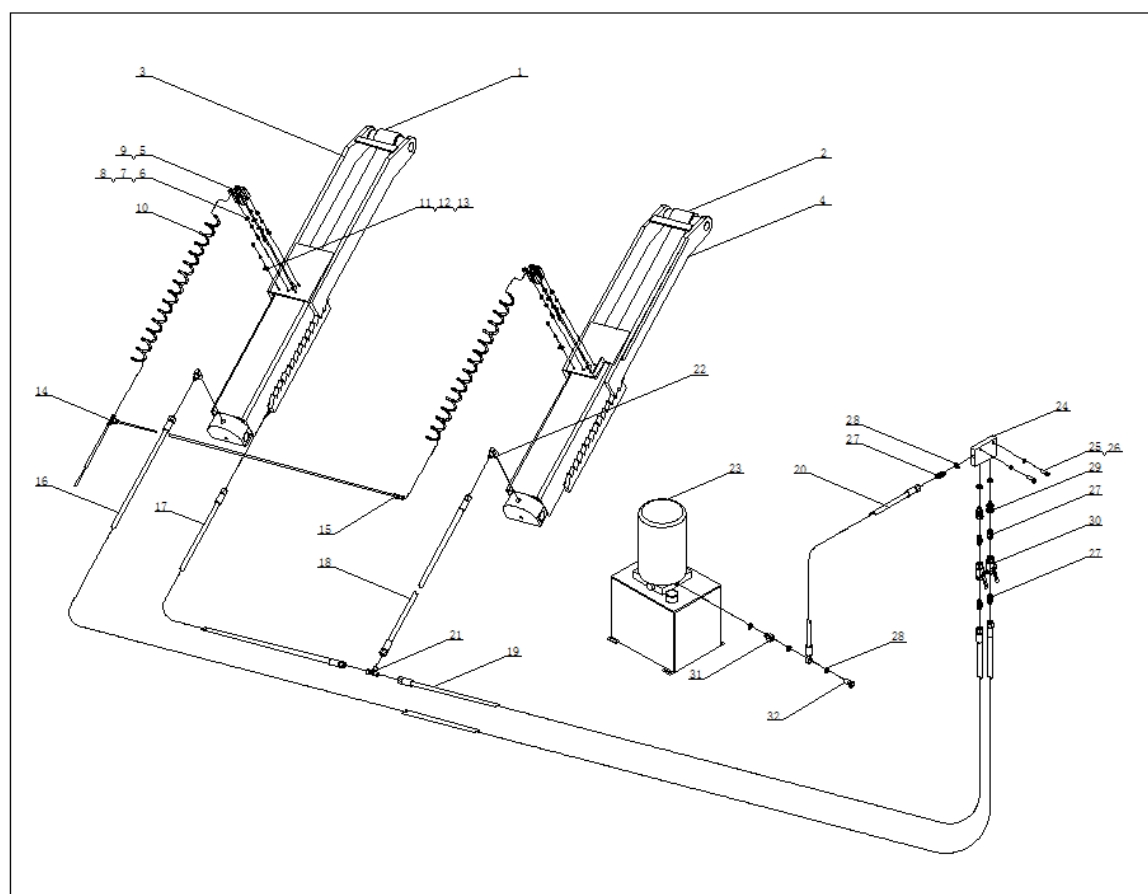
## WÜRTH IN GROUND SCISSORS LIFT

6		QWJ630N1006	expansion screw M16*140	8
7	QWJ603-000-01	QWJ630N1007	knock-out pin	8
8	GB/T 6170	QWJ630N1008	nut M16	8
9	QWJ635-000-15	QWJ630N1009	up limit switch installing board	1
10	GB/T 97.1	QWJ630N1010	flat washer 6	2
11	GB/T 70.1-2008	QWJ630N1011	screw M6*10	2
12	LXW5-11G1	QWJ630N1012	micro switch	1
13	GB/T 818	QWJ630N1013	screw M4*25	2
14	GB/T 6170	QWJ630N1014	nut M4	2
15		QWJ630N1015	fixing clamp CHS-1/4R	2
16	GB/T 97.1	QWJ630N1016	flat washer 4	2
17	GB/T 818	QWJ630N1017	screw M4*10	2
18	ME 8108	QWJ630N1018	limit switch	1
19	GB/T 818	QWJ630N1019	screw M4*25	2
20	QWJ630N-150-00	QWJ630N1020	connecting rod	2
21	QWJ635-000-11	QWJ630N1021	sliding block	4
22	SF-1	QWJ630N1022	composite bush 34*30*25	32
23	QWJ630N-000-01B	QWJ630N1023	connecting shaft	8
24	GB/T 95	QWJ630N1024	flat washer 27	8
25	GB/T 858	QWJ630N1025	stop lock washer 27	8
26	GB/T 812-1988	QWJ630N1026	nut M27*2	

## WÜRTH IN GROUND SCISSORS LIFT

				8
27	QWJ630N-170-00	QWJ630N1027	connecting rod	
				2
28	QWJ630N-180-00	QWJ630N1028	connecting rod	
				2
29	SF-1	QWJ630N1029	composite bush 24*30*25	
				8
30	QWJ630N-000-02	QWJ630N1030	connecting shaft	
				8
31	GB/T 95	QWJ630N1031	flat washer 27	
				8
32	GB/T 858	QWJ630N1032	stop lock washer 27	
				8
33	GB/T 812-1988	QWJ630N1033	nut M27*2	
				8
34	M6×1	QWJ630N1034	oil filling cup	
				16
35	QWJ635-000-11	QWJ630N1035	sliding block	
				4
36	SF-1	QWJ630N1036	composite bush 28*25*25	
				4
37	QWJ635-000-02	QWJ630N1037	short axle	
				4
38	GB/T 894.1	QWJ630N1038	shaft ring 25	
				8
39	QWJ630N-190-00	QWJ630N1039	platform	
				2
40	QWJ635A-191-00	QWJ630N1040	movable drawer	
				2
41	GB/T 6172.1-2000	QWJ630N1041	nut M12	
				2
42	GB/T 79-2000	QWJ630N1042	screw M12*25	
				2
43	QWJ630N-000-03	QWJ630N1043	cylinder axle	
				4
44	GB/T 894.1	QWJ630N1044	shaft ring 30	
				8
45	GB/T 77-2000	QWJ630N1045	screw M8*12	
				4
46		QWJ630N1046	rubber pad 160*100*35	
				4

WÜRTH IN GROUND SCISSORS LIFT



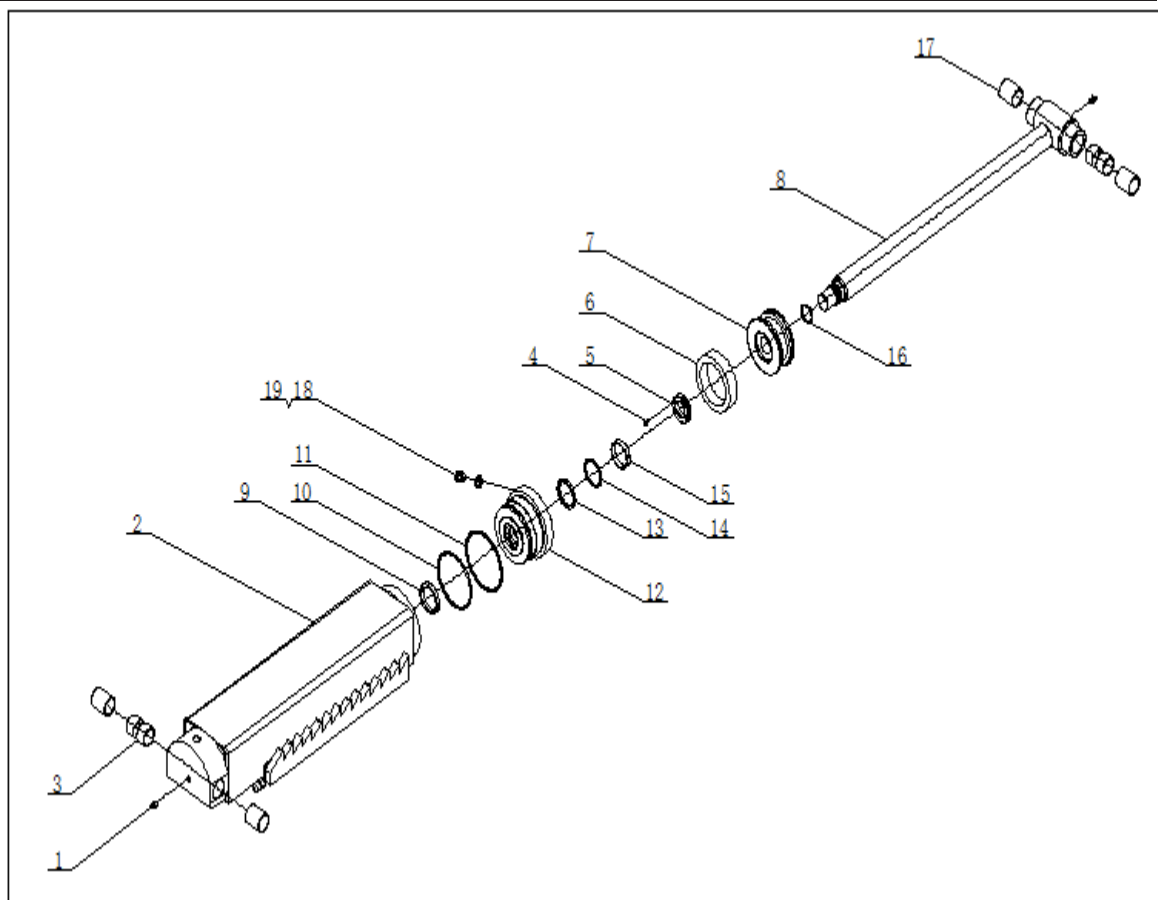
1	QWJ635B-130-00B	QWJ630N2001	main cylinder	1
2	QWJ635B-220-00B	QWJ630N2002	sub cylinder	1
3	QWJ635B-140-00	QWJ630N2003	main locking body	1
4	QWJ630N-210-00	QWJ630N2004	sub locking body	1
5	ESDA25×25	QWJ630N2005	air cylinder	2
6	GB/T 5781	QWJ630N2006	screw M6*20	8
7	GB/T 97.1	QWJ630N2007	flat washer 6	8
8	GB/T 93	QWJ630N2008	spring washer 6	8
9		QWJ630N2009	right angle joint M5*0.8	2
10	PU0604	QWJ630N2010	air tube(3 meter)	2

## WÜRTH IN GROUND SCISSORS LIFT

11		QWJ630N2011	fixing clamp CHS-1/4R	2
12	GB/T 97.1	QWJ630N2012	flat washer 4	2
13	GB/T 818	QWJ630N2013	screw M4*10	2
14		QWJ630N2014	T joint PE06	1
15		QWJ630N2015	through joint PU06	1
16	QWJ635-000-13	QWJ630N2016	hydraulic hose L=3500	1
17	QWJ635-000-13	QWJ630N2017	hydraulic hose L=700	1
18	QWJ635-000-13	QWJ630N2018	hydraulic hose L=1800	1
19	QWJ635-000-13	QWJ630N2019	hydraulic hose L=3000	1
20	QWJ635-000-14	QWJ630N2020	hydraulic hose L=500	1
21	螺纹 M14×1.5	QWJ630N2021	T joint	1
22	螺纹 M14×1.5-Rp3/8"	QWJ630N2022	right angle fitting	2
23		QWJ630N2023	pump (380V/220V)	1
24	QWJ603-310-02	QWJ630N2024	valve seat	1
25	GB/T 70.1	QWJ630N2025	screw M8*25	2
26	GB/T 93	QWJ630N2026	spring washer 8	2
27	QWJ603-310-01	QWJ630N2027	through joint	5
28	QWJ209B-000-05	QWJ630N2028	composite washer 1/4"	6
29	QWJ445DE-000-02	QWJ630N2029	connector	2
30	GEM G1/4" 1111AB	QWJ630N2030	high pressure ball valve 1/4"	2
31	QWJ209B-000-04A	QWJ630N2031	transition joint	1

WÜRTH IN GROUND SCISSORS LIFT

32	QWJ209B-000-07	QWJ630N2032	short pressing bolt	
				1



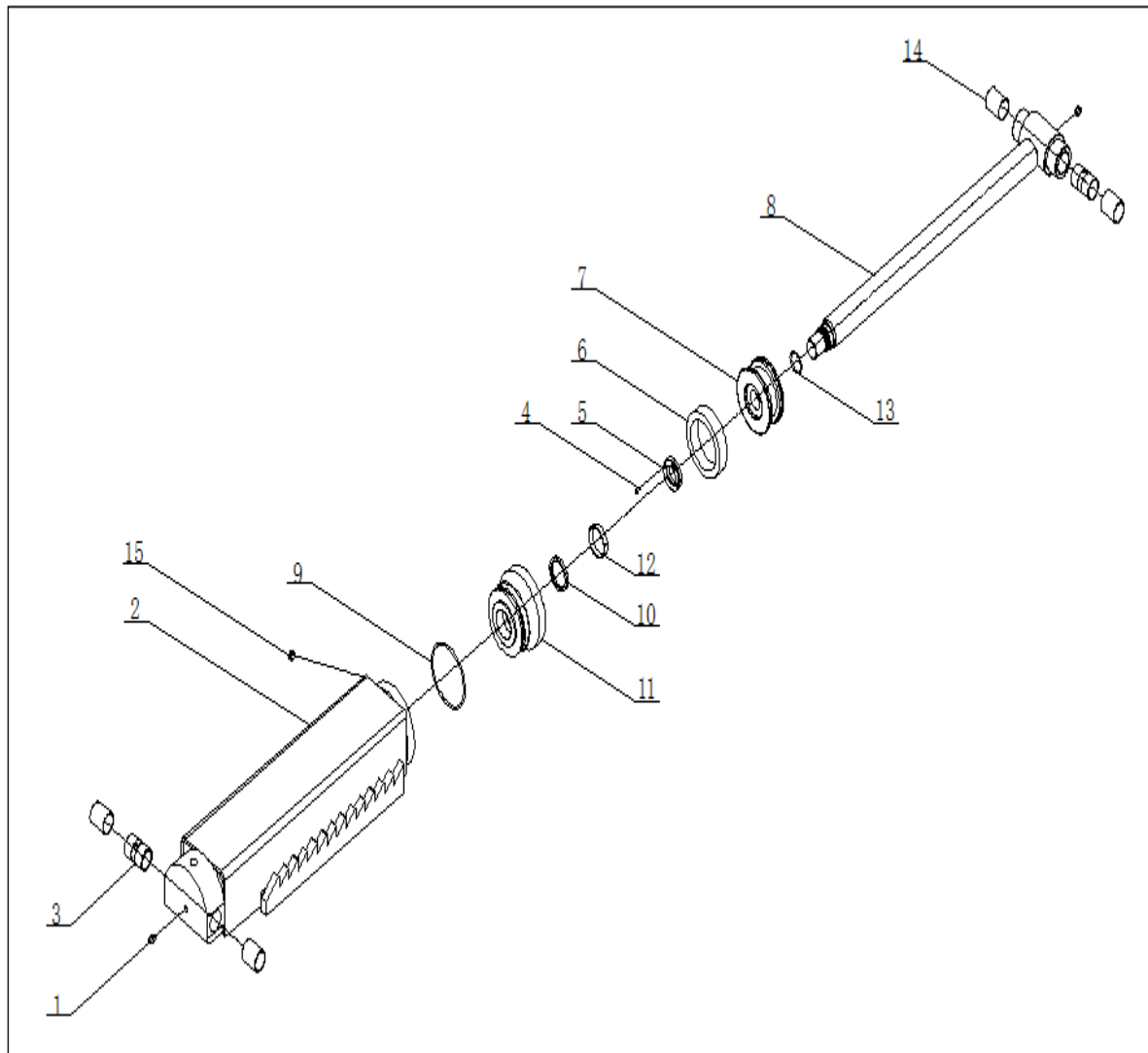
1	GB/T 1153	QWJ630N3001	oil cup M10*1	2
2	QWJ635B-131-00B	QWJ630N3002	main cylinder body	1
3	QWJ603B-130-01	QWJ630N3003	composite bush	2
4	GB/T 819	QWJ630N3004	screw M5*10	1
5	QWJ603-130-03	QWJ630N3005	nut	1
6	KGD105x80	QWJ630N3006	oil seal	1
7	QWJ635B-130-01	QWJ630N3007	piston	1
8	QWJ635B-132-00	QWJ630N3008	piston rod	1
9	D2 45x55x7	QWJ630N3009	oil ring of shaft	1

## WÜRTH IN GROUND SCISSORS LIFT

10	GB/T 3452.1	QWJ630N3010	O-ring $\phi 97.5 \times 3.55$	
				1
11	GB/T 3452.1	QWJ630N3011	O-ring $\phi 105 \times 3.55$	
				1
12	QWJ635B-130-02	QWJ630N3012	guide sleeve	
				1
13	DH 45x53x5	QWJ630N3013	dust proof ring	
				1
14	GB/T 3452.1	QWJ630N3014	O-ring $\phi 45 \times 3.55$	
				1
15	C18-002-0600S-47	QWJ630N3015	oil cup M10*1	
				1
16	GB/T 3452.1	QWJ630N3016	main cylinder body	
				1
17	SF-1	QWJ630N3017	composite bush	
				4
18	QWJ209B-000-05	QWJ630N3018	screw M5*10	
				1
19	QWJ603-130-07	QWJ630N3019	nut	
				1



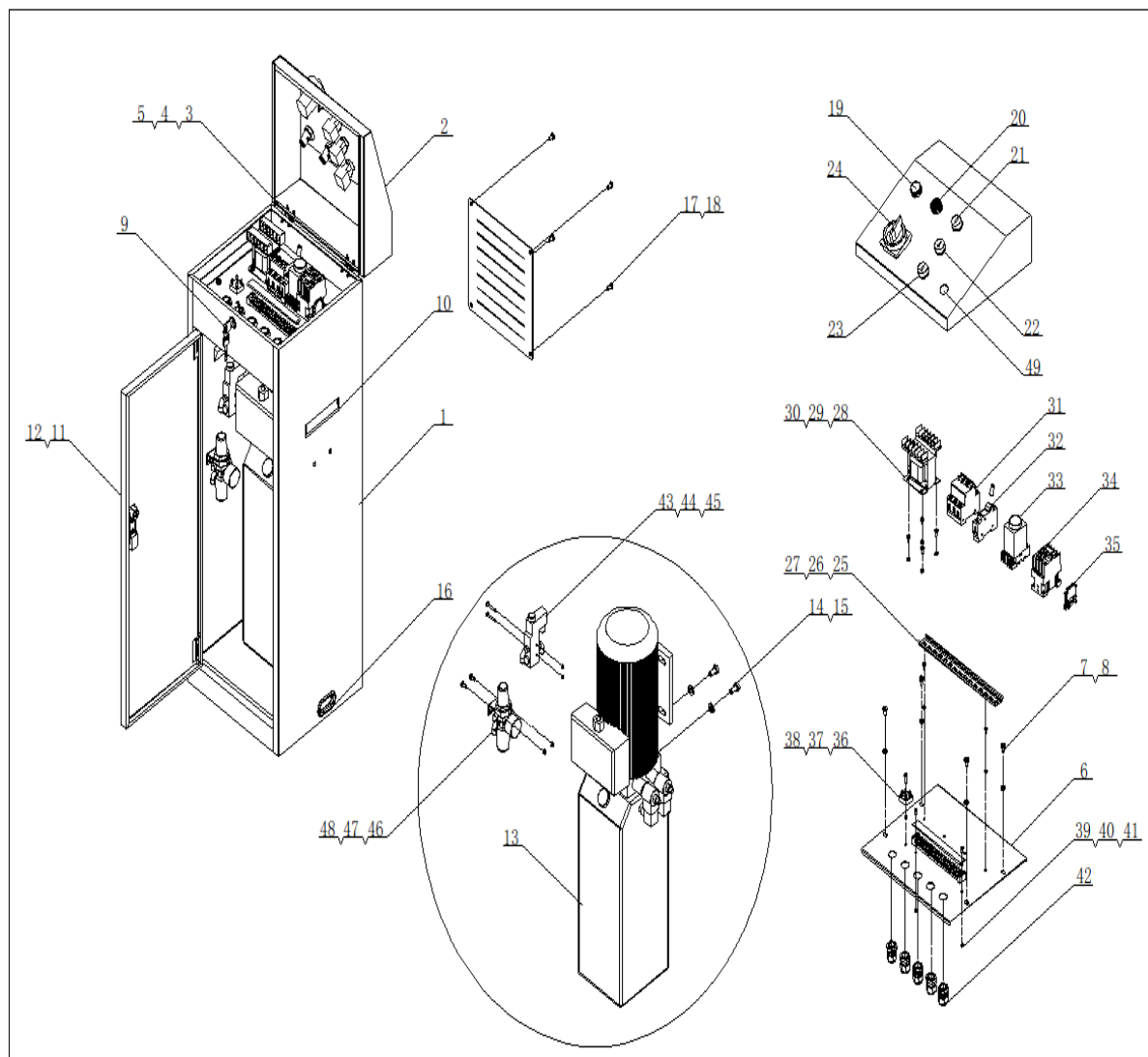
WÜRTH IN GROUND SCISSORS LIFT



1	GB/T 1153	QWJ630N4001	oil cup M10*1	2
2	QWJ635B-221-00B	QWJ630N4002	sub cylinder body	1
3	QWJ603B-130-01	QWJ630N4003	composite bush	2
4	GB/T 819	QWJ630N4004	screw M5*10	1
5	QWJ603-130-03	QWJ630N4005	Nut	1
6	KGD 95x75	QWJ630N4006	O-ring $\phi 87.5 \times 3.55$	1
7	QWJ635B-220-01	QWJ630N4007	dust proof ring	1
8	QWJ635B-132-00	QWJ630N4008	guide sleeve	1

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9	GB/T 3452.1	QWJ630N4009	T47 wear ring of shaft	1
10	DH 45x53x5	QWJ630N4010	dust proof ring	1
11	QWJ635B-220-02	QWJ630N4011	guide sleeve	1
12	C18-002-0600S-47	QWJ630N4012	T47 wear ring of shaft	1
13	GB/T 3452.1	QWJ630N4013	O-ring $\phi$ 31.5x2.65	1
14	SF-1	QWJ630N4014	composite bush P34x30x40	4
15	$\phi$ 10 x2	QWJ630N4015	air vent	1



1	QWJ635-310-00	QWJ630N380V5001W	Control box body	1
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2	QWJ635-320-00	QWJ630N380V5002W	Cover components	1
3		QWJ630N380V5003W	Cover hinge	2
4	GB/T 818	QWJ630N380V5004W	Bolt M4×10	8
5	GB/T 6170	QWJ630N380V5005W	Nut M4	8
6	QWJ635-330-00	QWJ630N380V5006W	elctrical I mounting plate	1
7	GB/T 818	QWJ630N380V5007W	Bolt M6×12	4
8	GB/T 97.1	QWJ630N380V5008W	Plain washer 6	4
9		QWJ630N380V5009W	16mm lock	1
10		QWJ630N380V5010W	130×40ABS plastic handle	2
11	QWJ635-300-17	QWJ630N380V5011W	Cover plate	1
12		QWJ630N380V5012W	AB302 Switch bounce lock	1
13	YS79L-2F	QWJ630N380V5013W	Pump 380V	1
14	GB/T 70.1-2008	QWJ630N380V5014W	Bolt M10×20	2
15	GB/T 97.1	QWJ630N380V5015W	Plain washer 10	2
16	QWJ204A-000-30A	QWJ630N380V5016W	Hose protective sleeve	2
17	QWJ635-300-08	QWJ630N380V5017W	Window	1
18	GB/T 818	QWJ630N380V5018W	bolt M6×12	4
19	ND16-22DS/Z DC24	QWJ630N380V5019W	Signal lampDC24V	1
20	ND16-22FS AC/DC 24V	QWJ630N380V5020W	Buzzer DC24V	1
21	LAY-39-11BN	QWJ630N380V5021W	Raise green button	1
22	LAY-39-11BN	QWJ630N380V5022W		

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			Lower green button	1
23	LAY-39-11BN	QWJ630N380V5023W		
			Lock green button	1
24	LW26-20 GS-20/04-2	QWJ630N380V5024W		
			Main switch	1
25		QWJ630N380V5025W		
			Rail L=200mm	1
26	GB/T 818	QWJ630N380V5026W		
			Bolt M4×10	2
27	GB/T 6170	QWJ630N380V5027W		
			Nut M4	2
28	JBK3-63VA 380V/24V	QWJ630N380V5028W		
			Transformer	1
29	GB/T 818	QWJ630N380V5029W		
			Bolt M5×8	4
30	GB/T 6170	QWJ630N380V5030W		
			Nut M5	4
31	DZ47-60 16A 3P	QWJ630N380V5031W		
			Breaker 380V	1
32	RT28N-32	QWJ630N380V5032W		
			Fuse (6A)	1
33	JSZ3A-A AC24V	QWJ630N380V5033W		
			Time rely (CZS08X-E)	1
34	CJX2-1210 AC24V	QWJ630N380V5034W		
			a.c. contactor	1
35	USLKG-2.4	QWJ630N380V5035W		
			Yellow green terminal	1
36	KBPC-10/10	QWJ630N380V5036W		
			rectifier	1
37	GB/T 818	QWJ630N380V5037W		
			Bolt M4×16	1
38	GB/T 6170	QWJ630N380V5038W		
			Nut M4	1
39	TB1520	QWJ630N380V5039W	Wiring board(20)	
				1
40	GB/T 818	QWJ630N380V5040W		
			Bolt M4×10	2
41	GB/T 6170	QWJ630N380V5041W		
			NUT M4	2
42		QWJ630N380V5042W		
			Tight line device PG13.5	5
43	3V210-08	QWJ630N380V5043W		

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			electromagnetic valve	2
44	GB/T 818	QWJ630N380V5044W		
			bolt M4×30	2
45	GB/T 6170	QWJ630N380V5045W		
			nut M4	2
46	WAW2000-02	QWJ630N380V5046W		
			oil-water separator	1
47	GB/T 818	QWJ630N380V5047W		
			Bolt M5×12	2
48	GB/T 6170	QWJ630N380V5048W		
			Nut M5	2
49		QWJ630N380V5049W		
			Plug cover	1