

#### DECLARATION

This manual can not be copied without written approve of Orange equipment. And it is only special designed for the operation of these products; read this manual carefully before use the machine, and operate and maintenance should be strictly according to this manual, our company is not responsible for any operation which is violate the manual, for any result of using this manual to guide the operation of other kinds of machine.

### Special Notice

The damag

The damage caused during shipment, purchaser should claims to the carrier.

Safety performance has been sufficiently considered when this car lift was designed and manufactured. However, necessary training and adroitly operating can guarantee the safety of this product.

Parameter requirements on nameplate of the motor must be satisfied for installation. Power supply should be connected by qualified electricians.

Read this manual carefully before actual use. Do not operate or repair the device without reading this manual!

We reserve the right to improve substructure of the product. Update the products which have been sold out previously is not our responsibility.

Please make sure the arm locks are in full engagement before rising.

It's the user's responsibility if the device is damaged because the rated lifting capacity was exceeded.

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# Chapter I Overview

#### 1.1 Overview:

Two-post hydraulic car lift is a mechanical safety insurance lift, hydraulic is lifting power source, the lift structure is simple, superior performance, advanced technology, easy to operate, suitable to auto repair industry.

### 1.2 Structure performance:

- 1.2.1 The structure it takes full account of the conditions of most users, users can install the lift in the appropriate position according to their actual situation.
- 1.2.2 The hydraulic system uses a hydraulic power unit, compact, safe and reliable, easy to adjust, low failure rate, easy to maintenance. The hydraulic system has manual pressure regulator function, rotate the relief valve adjusting screw to adjust the system pressure.

## 1.3 Operating system:

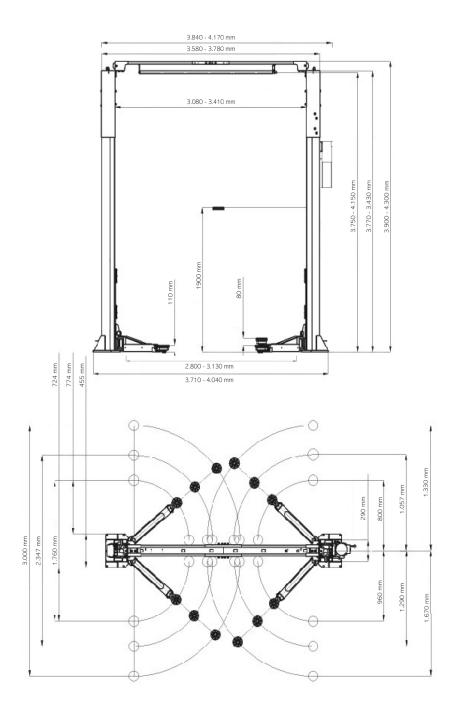
- 1.3.1 After connect power supply , press up button. stop press the button once at the required height ,the device will stop moving.
- 1.3.2 Please confirm the mechanical lock if locked the carriage firmly , if the mechanical lock couldn't lock carriage safely , should press down handle let the carriage come down and locked.
- 1.3.3 To check equipment working situation timely, if safety lock can not lock slipway effectively, adjust lock to keep it in good operation.

When the lift on working, should pay attention of the mechanical lock working condition at any time , if the lock couldn't lock the carriage firmly , should adjust in time to achieve the best working condition .

#### 1.4 Technical parameters:

Model	Net Weight	Lifting Height	Lifting Capacity	System Pressure	Motor Power	Voltage	Lifting Time
GB-TP-4.5KC	870	≤1900	≤4500	16Mpa	2.2KW	380V/22 0V 50Hz	≤60

# Dimension (front installation)



# Chapter II Safety instruction

# 2.1 Safety rule:

Before read and fully understand this instruction rules, please do not operate the equipment, negligence may lead to a major accident, electric shock, or serious personal and property damage.

### 2.1.1. Recognize your equipment

For your personal safety , please read this manual ,get to know the use and limitation ,and potential danger .

### 2.1.2. keep the working area clean.

Cluttered areas and bearing parts can cause accidents.

Don't use in danger environment.

Please don't use it in the rainy and wet place ,and keep the working area in a good light condition .

2.1.3. non-professionals please keep away from the machine .

Visitors in the work area must be kept a safe distance.

#### 2.1.4. Do not operate the machine forcibly.

Let the machine work with its design speed, security implementation.

#### 2.1.5. Wear the appropriate clothes.

Please don't wear the loose clothes, Gloves, necklace or jewelry which easy to involved in the machine .we suggest wear slip shoes, wear hair cap can wrap the long hair.

## 2.1.6.Do not maintenance the machinery in working condition.

The machine should be proper maintenance, such as lubrication, adjustment, but definitely not in working condition for maintenance.

- 2.1.7. Be sure cut off the power before maintenance and replacement parts .
- 2.1.8. Do not allow the machine to run unattended statement .

# 2.1.10 warning mark

PORTATA Max Capacity	Use the lift for loads with maximum weight equivalent to the				
KG	rated capacity, indicated on the ID label applied on the unit itself.				
来	Never lift people. This is strictly forbidden.				
	All modifications to the lift must be authorized by the manufacturer.				

	The unit can only be operated by adequately trained and authorized personnel.
The state of the s	Never tamper with the lifting speed, both up and down; this was regulated by SUNSHINE during testing to meet current standards.
	Always check the vehicle being lifted to ensure that it is stable.
<u>(i</u>	Never use the lift if it shows signs of poor function or dangerous conditions.
	If the lift has been idle for a long period, check it thoroughly before reusing it.
	The lift comes with a User's Manual and warnings designed and produced to last. If damaged or destroyed, promptly contact the Manufacturer for a replacement.
<u>^i</u>	Use only spacers supplied by the manufacturer

2.2 Warning label

# **▲** DANGER



over load is forbidden

# **A** DANGER



Walking on the lift is prohibited here.

# **⚠** DANGER



Standing under the vehicle is fobind when the lift is working.

# **A** DANGER



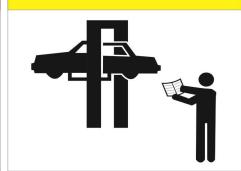
Climbing on the lifting vehicle is forbiden, except using the specialized ladders.

# **▲** WARNING



There should be no barries in the area of lifting.

# **A** WARNING



Operating follow the manual strictly, especially troubleshooting.

# **⚠** WARNING



Position vechicle with gravity center at the midway between adaptors.

# **A** WARNING



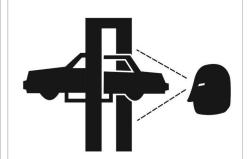
Lift to be used by trained operators only.

# **▲** WARNING



Ensure the position of the vehicle is safe and correct, when the vehicle left the ground.

# **A** WARNING



The operator should observe the overall lifting process.

## 2.3 Safety design

2.3.1 Lift with hydraulic cylinder design ,Hydraulic cylinder joints with explosion-proof valve or throttling pad structure, even the hydraulic pipe burst , will not suddenly fall and cause injury.



- 2.3.2 Lift balance device using steel rope ensure the lift synchronous lifting up and down .
- 2.3.3 The mechanical lock doesn't work only when it's lifting down ,so what ever the oil pipe burst or steel rope break ,it will no big danger .

# Chapter III Packing and handling

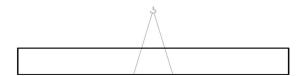
## 3.1 Packing method

The lift is packed with several parts as below:

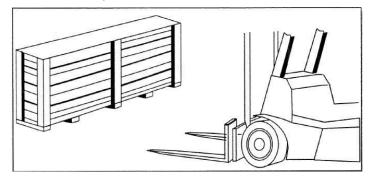
- 3.1.1 The lift body is wrapped in steel frame, completely covered by unbreakable material, include all body parts.
- 3.1.2 Power unit and electrical control box (some models without electronic control box) is packed in cardboard box.
  - 3.1.3 We will provide optional accessories according to client's special requirement.

## 3.2 Lift handling and transport

3.2.1 When lifting and loading, must use woven nylon tape with loading-bear strength, lifting capacity no less than 2 tons, to the center of gravity, avoid the tape placed in the mechanical lock position. See the Fig. As below.



3.2.2 Right equipment and methods must be use when loading and unloading. Also ensure the parts is no missing, and consider package size, weight, center of gravity and breakable parts.



3.2.3. Lift must be placed flat and avoid direct sunlight in the warehouse.moisture-proof. Temperature is -10°C to +40°C.

- 3.2.4. After delivery, please check the damage may occur on the way of transport and storage. And to verify the promise of manufacturer. If the damage occurred during transportation, customer should immediately inform the transport company.
- 3.2.5. Be careful when opening the package, keep a certain distance. Do not lose small parts when opening package.

Chapter IV Installation and testing

## **4.1** Lift parts drawing:



### 4.2 Installing tools:

- 1、 Φ18 impact drill bit
- 2, impact drill
- 3, 12-14/17-19/22-24

spanner4, adjustable spanner

- 5, cross screw driver, flat screw driver6
- 5,6,8,10 inner hexagon wrench
- 7, hammer
- 8, band tape (5m)
- 9, vertical gauge
- 10, chalk

## 4.3 Installation warning



Only manufacturers or distributors authorized professional technical personnel can install the equipment. The installer must have the qualifications. Non-professional installation may cause serious injury to person or equipment.

### 4.4 Choose installation place.

- 4.4.1. Lift is designed to be installed inside the house, space is no obstacle, well-ventilated. should not be installed near the wash area, paint, paint corrosive solvents stacking area. There are other state regulations on health and safety, such as minimum distance from walls or other equipment, emergency access and other requirements.
- **4.4.2.** Must keep fire far away from lift installation place, the surrounding environment must be good.
- 4.4.3 Lift must be installed on a minimum thickness of 250 mm, a minimum strength of 300PSI concrete ground, extending from the installation point out at least 1 m.



Specifications of concrete must be strictly enforced, otherwise it will cause a serious accident.

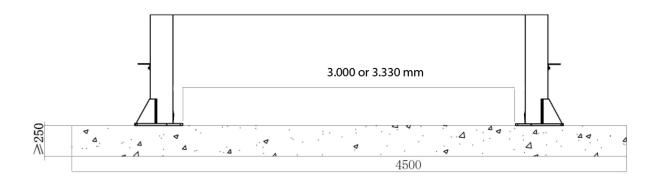


Installation ground should be level, supplement the small uneven ground level. If the concrete level tolerance is big, should consider re-pouring concrete.

#### 4.5 Installation

- **4.5.1.** According to the instructions in the packing list, to check if is missing parts or damage pats.
- 4.5.2. According to foundation chart (Fig.2) to install lift, using chalk to draw the installation range of column lift.

### Foundation drawing:

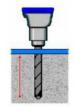


- 4.5.3. After confirm a approximately position ,use the lift post base as model , drawing contour with chalk in the right position .
- 4.5.4. Confirm each post base size again ,to make sure the chalk line same as post base .
- 4.5.5. First put the cylinder in the post positioning hole, install the slider on the carriage ,then put the carriage from the top of post ,push to the bottom(this steps has been done in factory , users can ignore it), fix the post ,make sure the two posts distance as long as the beam length .
- **4.5.6.** Base on column bottom hole for position, to drill a hole about 150 mm deep with impact drill on concrete. To ensure the expansion bolts fixed-strength, do not getimpact drill shaking when drilling hole. After drilling, with a vacuum cleaner or wire brush to clean the dust of each hole, please ensure the post not dumping or shifting inthe process .

The nuts should be reserved 3-5mm thread after assembling expansion bolts. Insert into the drilled hole, tapping with a hammer until the bolt to the column bottom of the spring washer parts, then taping pivot bolt until it cannot move.

Measured vertical degree of vertical post with vertical gauge .If column vertical degree is large, use spacer to adjust. After vertical adjustment, tighten the nut bolt.Nut tightening torque is about 80N.M.

#### Expansion bolt installation indication drawing:









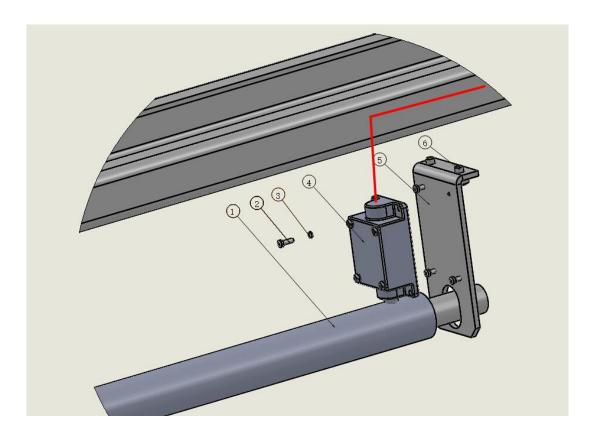
Installing the crossing beam between two posts and tight the nuts



# Posts must vertical ,otherwise ,it will cause the car lift don't raises or casualties

4.5.8. Install lift pump station, oil pipe, mechanical lock, steel rope, limit switch parts and so on. Fix the balancing steel wire rope, the carriage should be at bottom when adjusting the balancing steel rope. Two side steel rope should same tightness.

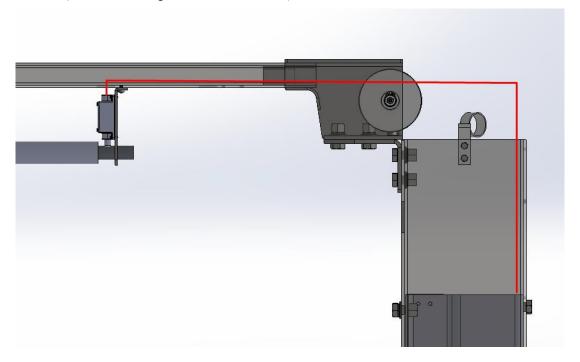
# 4.5.8.1 Limit switch installation instructions: First, install the limit switch on the beam , as below :



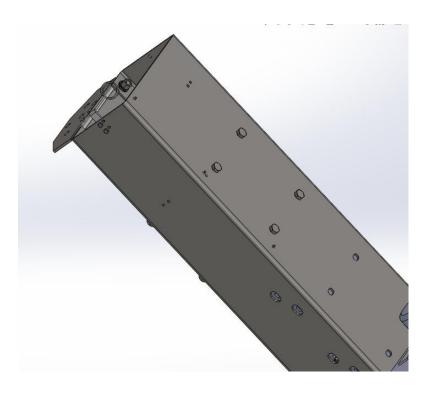
NO.	Name	Specification	QTY
1	Limit bar		1
2	Cross bolt	M3×10	4

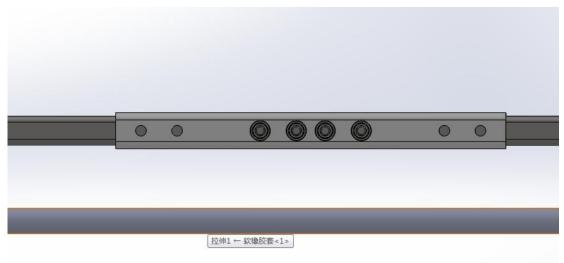
3	Elastic washers	<b>ф</b> 3	4
4	Limit switch	LX19-001	1
5	Angle iron B		1
6	Cross bolt	M6×10	4

The cable runs in the same direction with oil pipe and pump station, and then connect the terminals on one end of the cable to the corresponding terminals inside the electrical cabinet (electrical wiring instruction in back )  $\frac{1}{2}$ 

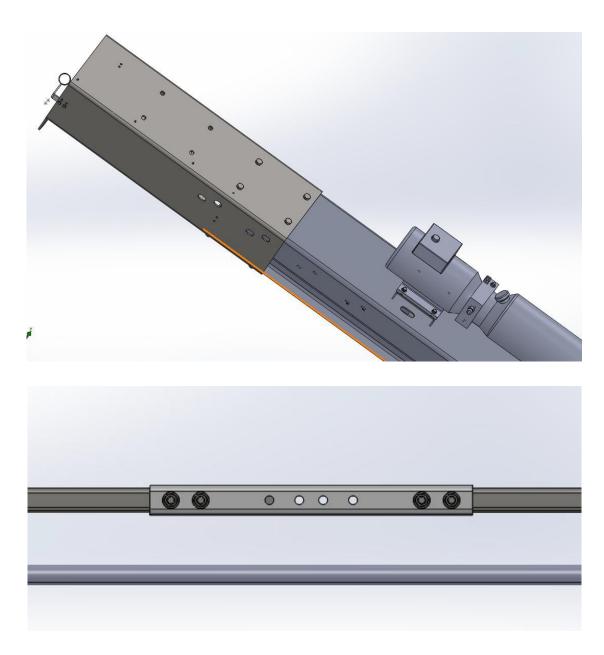


# 4.5.8.2 Cylinder highest position limit switch installation:

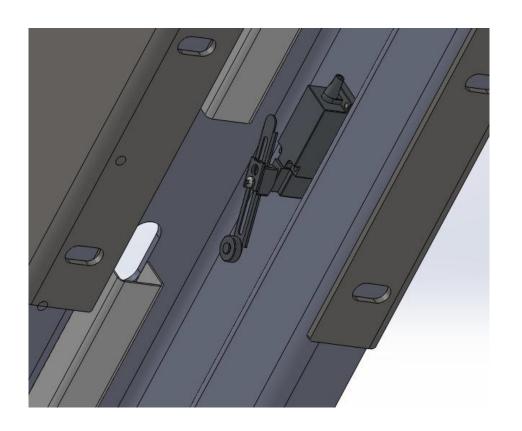




4.5.8.3 The column with the upper section and beam length installation way while lifts at the highest height:



Note:when adjusting the height of the column, the width of the beam needs to be adjusted at the same time. Therefore, the height of the column or the width of the beam can not be adjusted separately. Otherwise, the balance wire can not be installed. 4.5.8.4.1 Cylinder limit switch installation diagram as below:

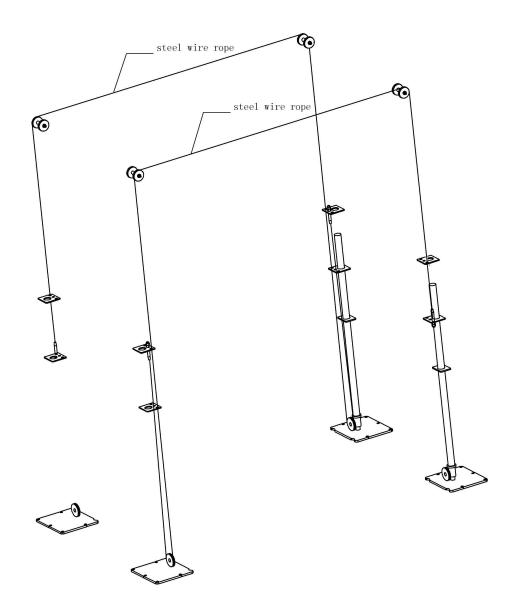




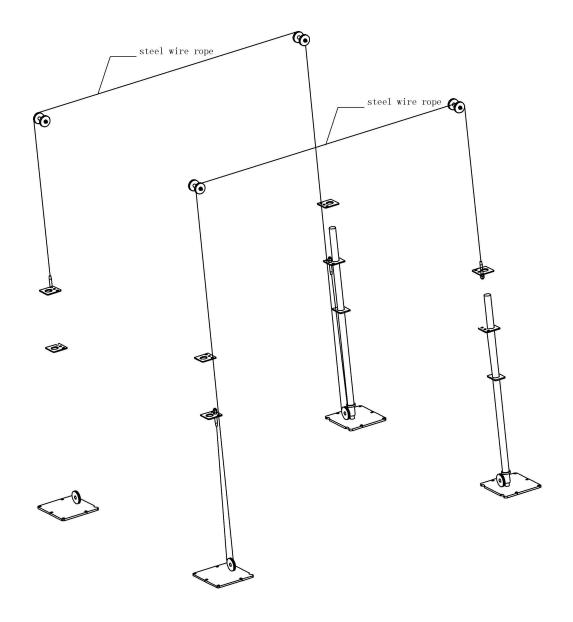


 $4.5.8.4 \mbox{Balance}$  steel rope installation diagram .

4.5.8.5.1 The steel rope installation diagram at the lowest height

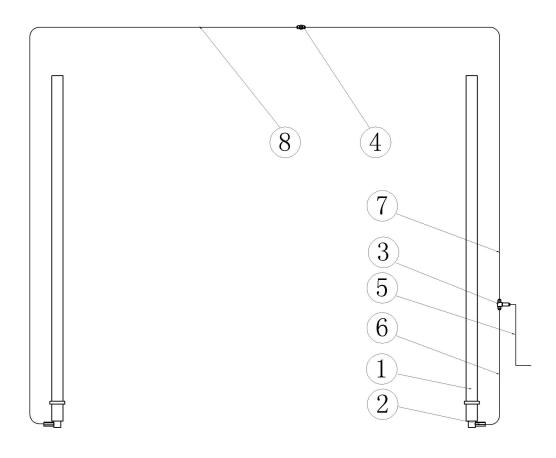


4.5.8.5.2 The steel rope installation diagram at the highest height



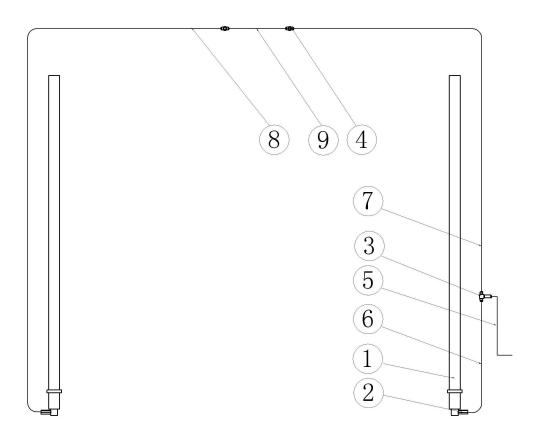
# 4.5.8.6 Oil pipe installation diagram

4.5.8.6.1 The oil pipe installation diagram at the lowest height



No.	Name	Spec. & Model	QTY
1	cylinder		2
2	Inside and outside through the connector	NPT3/8-M14×1.5-68	2
3	T-tee	M16×1. 5	1
4	Double straight through	M16×1. 5	2
5	Oil pipe	750mm	1
6	Oil pipe	2080mm	1
7	Oil pipe	3350mm	1
8	Oil pipe	5520mm	1

4.5.8.6.1 The oil pipe installation diagram at the highest height



			Q
No.	Name	Spec. & Model	Υ
1	cylinder		2
2	Inside and outside through the connector	NPT3/8-M14×1.5-68	2
3	T-tee	M16×1. 5	1
4	Double straight through	M16×1. 5	2
5	Oil pipe	750mm	1
6	Oil pipe	2080mm	1
7	Oil pipe	3350mm	1
8	Oil pipe	5520mm	1
9	Oil pipe	1120mm	1

 $4.5.9\, \mbox{,}$  Connect each terminals according to circuit diagram,and make sure the connect right and reliable earthing .

A

Electric wire should connect by professional electrician

Make sure the power supply same as lift voltage.

Make sure connect right , wrong connection will burn out the motor ,this is out of warranty .

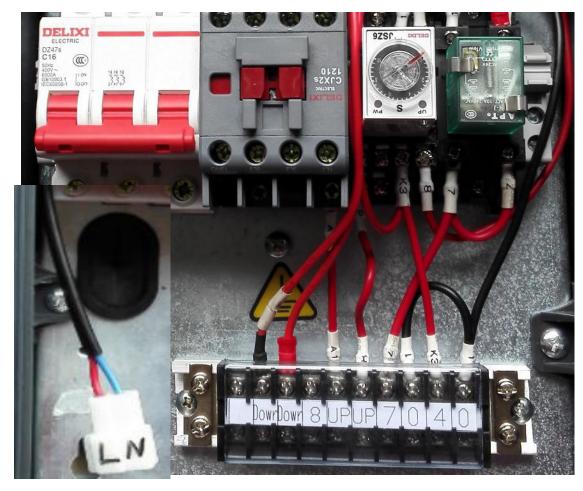
Power unit must keep dry.

## 4.5.9.1 Electric control box instructions:





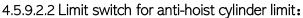
The schematic of Electrical control box inside



4.5.9.2.1 Limit switch for the beam highest limit:



The limit switch is installed on the beam for highest limit, The wiring diagram in the electrical box inside is the number 8 and the one of the terminals which showing "up".



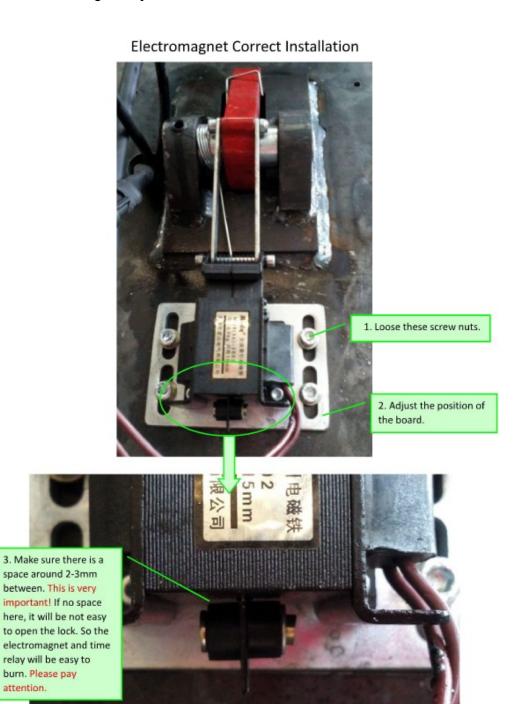


The limit switch is installed on the post anti-hoist cylinder limit, The wiring diagram in the electrical box inside is the number 8 and the other one of the terminals which showing "up".

4.5.9.2.5. The terminals of number 0 and 7 is the connector for the unlock electromagnet; The terminals of number 0 and 4 is the connector for pump station solenoid valve coil.

## 4.5.9.2.6 Electromagnet Adjustment:

burn. Please pay attention.



4.5.10 , Install the carrier arm, insert the carrier arm into the horizontal slot of the slider, align with the pin hole of the slider rail and the carrier arm, insert the carrier

arm pin, install the  $\phi$ 38 mm shaft retaining ring, install the  $\phi$ 63 mm Shaft with the ring

#### 4.5.11 \ Preparation work before operation

#### 4.5.11.1 Checking:

- ✓ Make sure the posts are vertical and arms are leveled.
- ✓ Make sure anchor bolts are fastened well.
- ✓ Make sure the electric voltage is the same as the motor requested.
- ✓ Make sure the electric wires connected right and ground wire connected.
- ✓ Make sure the oil pipes connected right.
- ✓ Make sure the working place enough and people safe.
- 4.5.11.2 \ Pour hydraulic system oil N46(SY1227-84) into the oil tank. The volume of the oil tank is 12L. Make sure the oil level in the oil tank is between the 2 red lines



In winter, with low temperature and large viscosity of the hydraulic oil, 32# - 40# high-pressure anti-wear oil can be chosen if necessary. In summer, with high temperature, it should be replaced by stipulated oil.

- ✓ Evenly Apply general lithium base grease (GB7324-87) on contact surface inside the post and the carriage, also wire ropes.
- 4.5.11.3 Press"UP" button less than 5 second. Remove the oil pipe which is connected with the power unit and check whether there is oil come out. If there's no oil means the motor rotating direction in wrong way. Switch the electric wire connection.
- 4.5.11.4 , Press "UP"button and carriages up to the highest position. Press "DOWN"button and carriages to the lowest position. Release the nut a little bit at the

top of each cylinder (see below picture). When the sound of releasing air stopped, fasten the nut. Repeat this whole step 2 to 3 times.

Bleed bolt position as shown below:



Press the "UP" button and carriagesgoing up. Repeat the operation several times to reach the highest and lowest position. Measuring if the height of the two carriages are the same at A and B position. Otherwise you have to adjust the ends of the steep rope in the carriages to make sure the carriages are on the same level. The level difference of the 2 carriages can not be more than 5mm.

- **4.5.11.5** During operation, please pay attention to the lift shaking, noise, oil leaking, motor rotating and electric parts working, etc.
- 4.5.11.6 . Load the lift with weights.Repeat step 5 for two to three times. If every part works ok, this lift can be used for working.

◆ Operate the equipment strictly according to the operation schedule.



- On because of the center of gravity of cars are different, so when moving the lift working, try to put the center of gravity of the car close to the plane of two upright posts.
- ◆ The motor mustn't be contrary rotated at the first time installation to avoid damage of the oil pump.
- ◆ High-pressure anti-wear hydraulic oil must be produced by the formal factories.
- Often check the status of safety lock, in order to make it safety.
- ◆ The hydraulic valve and system pressure have been adjusted before goods delivery. User should not adjust by himself. Otherwise, The user should be responsible for the consequences.
- ◆ The slider which installed in the two post should be synchronous, or else adjust the length of the two steel wire ropes.

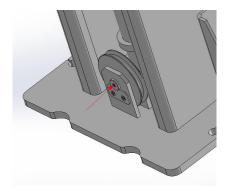
The safe lock must be at the locked condition, when the worker is repairing.

# Chapter VMaintenance

#### 5.1 Maintenance

Lift maintenance as following:

- 1. Keep the lift clean. No anything or tools under or nearby the lift to avoid things falling down to hurt people or lifts during lift lowering down.
- 2. Keep oil pipes, electric wires and electric parts clean.
- 3. Change hydraulic oil after first 3months. Then change hydraulic oil every 8-10 months according to the using frequency of the equipment. Release the used oil totally.
- 4. Add new oil in and make sure the oil level is between the 2 red lines as below. Check the oil level regularly and fill the oil in time.
- 5. Keep oil tank clean. Make sure no things falling inside.
- 6. Wash and clean the oil filter every 3 month. Clean with kerosene and brush carefully. If the filter is damaged, please change immediately.
- 7. Apply lubricant to steel ropes and pulleys 1 time a month. Check if any broken with the steel rope. If yes, change the steel rope immediately. Check the wearing condition of pulley groove and self lubricating bearing. If the wearing is 0.5mm on self lubricating bearing, please change it immediately.



- 8. Check if the posts are vertical every 6 months. If not in vertical position, please adjust and fasten the nuts. The fastening force should be around 80N.M.
- 9. Change the sliding block after the lifts used for 2-3 years. Remove the screw M10\*30 fastened on the fixing plate. Remove the fixing plate. Insert the screw M10\*30 into a hole M10 of the sliding block. Take out the sliding block. Put in newblocks. Put the fixing plate back and fasten the hex screws. Changing all sliding blocks in the same way.

5.2 Common Troubles and Troubleshooting

	Reason	Troubleshooting
Carriage asynchronous when lifting up	Tension of the two wire ropes aredifferent.	Adjust the nut on wire ropes. (Shouldinspect and adjust periodically)
Failure of safety lock	clamping phenomenon	According to the trial run relevant requirement of installation, adjustment, readjust the safe lock
Failure of the motor or other electronics equipment	Wire fault or electronic defects	Cut off the power. Inspect, repair and replace the components by professionalelectrician.
Heavy load can't be lifted, or move down slowly after lifting.	the hydraulic station	Washing the oil drain valve, replacing it if it was damaged.
Oilimpregnate at the oil pipe joints	Untight sealing	Oil impregnate at joints: Seal with adhesive tape, and then reconnect; Oil impregnate at oil pipe joints: Tight the oil pipe nut once.

	If anything is abnormal and can't be resolved
	by yourself, please contact our company.
Others	Thanks for your cooperation. We will
	provide service for you with our open arms.

# ChapterVI Electrical Safety

## 6.1 Electrical system safety rules

6.1.1 . Only personnel who are properly trained and have adequate knowledge and skill should undertake all

electrical/electronic troubleshooting and repair.

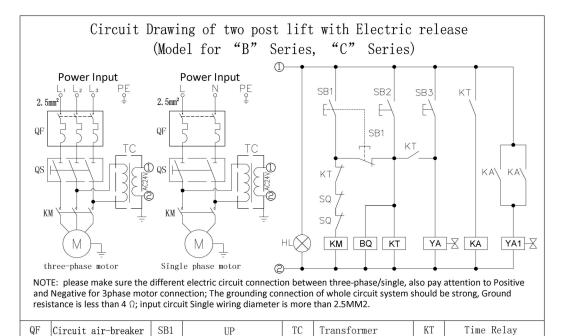
- 6.1.2. Do not alter or bypass protective interlocks.
- 6.1.3 . Before starting, read and observe all warning labels.
- 6.1.4 . When trouble shooting make sure the power source has been disconnected and main switch has been locked.
- 6.1.5 Take extra precautions in damp areas to protect you from accidental grounding.
- 6.1.6. Before applying power to any equipment it must be established, without a doubt, that all persons are clear.
- 6.1.7 . Do not open the electrical control panel unless it is necessary to check the electrical equipment.
- 6.1.8 . Do not alter the electrical circuits unless authorized to do so by the manufacturer.
- $6.1.9\,\mbox{\ ,}$  When replacing electrical components, make sure they conform to the manufacturer's specifications,

including proper color coding.

6.1.10 . Do not wear metal frame glasses, metallic necklaces or chains while workingon any electrical equipment.

Also do not wear any ring, watch or bracelet while operating electrical equipment

## 6.2 Electrical schematic diagram:

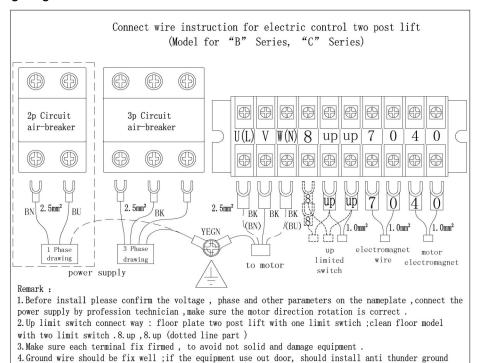


#### QS YA Valve Solenoid Intermediate relay Disconnect Switch SB2 KA Down KM Limit switch A.C. contactor SB3 YA1 ${\it Electromagnet}$ Lock M HLMotor Power Indicator

### 6.3 Wiring diagram

wire to avoid accident.

5.Ground resistance should less than  $\!4\Omega.$ 

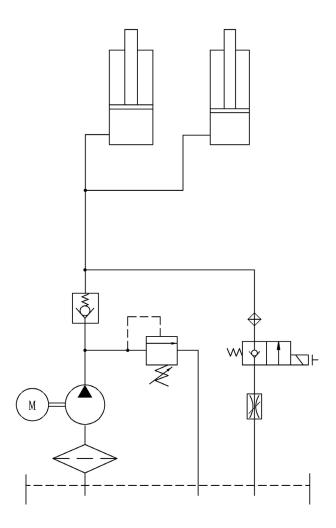


### Chapter VII Hydraulic System

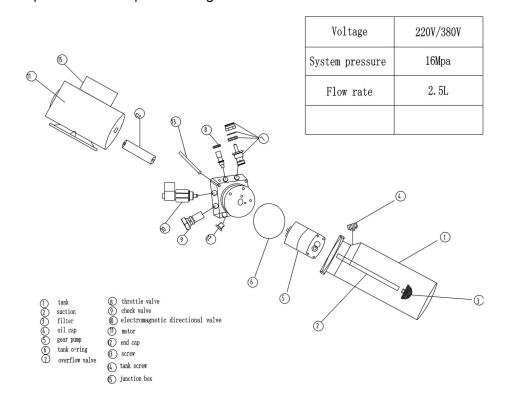
### 7.1 Hydraulicsystem safety rules

- 7.1.1. Non-professional not allowed to dismantle gear pumps and control valves etc.
- 7.1.2. System pressure should not adjust, if exceeding the rated pressure pump station will cause damage to the gear pump or personal injury.
  - 7.1.3. Hydraulic tubing must not contact with sharp objects.
  - 7.1. 4. Hydraulic tubing must not contact with corrosive materials.
- 7.1.5. Hydraulic tubing is damaged, rubber layer aging phenomenon must be replaced.
- 7.1.6. When replacing the hydraulic tubing, the tubing pressure on label should no less than twice of the system pressure.

### 7.2 Hydraulic schematic diagram



### 7.3Pump station decomposition diagram:



### Inspection Report

Name:Two post hydraulic car lift

Model No.:

This lift implement of Q/0601KHD002-2013 standard. Before this product putinto the market, the inspection items and results are as follows:

Item	Inspection Items	Unit	Standard Value	Measured Value
1	Lifting Height	mm	<b>≤</b> 195 0	
2	Lifting Weight	Kg	≤4500	
3	Minimum height from supporting plane to floor	mm	<b>≤</b> 95	
4	System Pressure	4	<b>≤</b> 16	
5	Lifting Time	5	<b>≤</b> 60	

Ins	pect	tor:
-----	------	------

Date:

Warranty Card

User's company / name	
Address and Phone	
Description and Model	Hydraulic Two Post Lift
Ex-work No.	
Date acquisition	
Dealer's name	

### Dear Customer.

Thanks for choosing Sunshine lift. With this warranty card and invoice, we will provide our best after service for you according to relative regulations of the Law of the PRC on the Protection of the Rights and Interests of Consumers. Please read and fill out the card carefully, and give it to the dealer and our company for the records.

## Users obligation

- Please fill out this card and affix the official seal when purchasing the device, in triplicates, one for the dealer, one for our company, and the third one is for you.
- This card should be kept well. Should the device fail to operate, this card will be one of the proofs to determine whether free charge service is available for the device.
- This card can only be effective with our company's official seal.

# Warranty conditions

- Should the product fail to operate within one year from the date of purchasing and is confirmed by our company that it was used in normal conditions and according to the requirements of User's Manual, we will provide limited repairing for free.
- If the product need to be repaired under warranty, the user should take the warranty card, invoice, and the User's Service Sheets filled out by himself to obtain free service. The old components will be possessed by our company.
- Items not in contract maintenance range: Damages due to improper transportation, misapplication, insufficient ground strength, power disagree with specifications, or operation not according to the User's Manual. If the warranty is overdue, and our company is requested to provide service, we will charge based on our company's cost

price.

### **X**Customer saved

### Warranty Card

User's company / name	
Address and Phone	
Description and Model	Hydraulic Two Post Lift
Ex-work No.	
Date acquisition	
Dealer's name	

### Dear customer:

Thanks for choosing Sunshine lift. With this warranty card and invoice, we will provide our best after service for you according to relative regulations of the Law of the PRC on the Protection of the Rights and Interests of Consumers. Please read and fill out the card carefully, and give it to the dealer and our company for the records.

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Items not in contract maintenance range: Damages due to improper transportation, misapplication, insufficient ground strength, power disagree with specifications, or operation not according to the User's Manual. If the warranty is overdue, and our company is requested to provide service, we will charge based on our company's cost price.

#### .XDistributor saved

### Warranty Card

Training Cana	
User's company / name	
Address and Phone	
Description and Model	Hydraulic Two Post Lift
Ex-work No.	
Date acquisition	
Dealer's name	

#### Dear customer:

Thanks for choosing Sunshine lift. With this warranty card and invoice, we will provide our best after service for you according to relative regulations of the Law of the PRC on the Protection of the Rights and Interests of Consumers. Please read and fill out the card carefully, and give it to the dealer and our company for the records.

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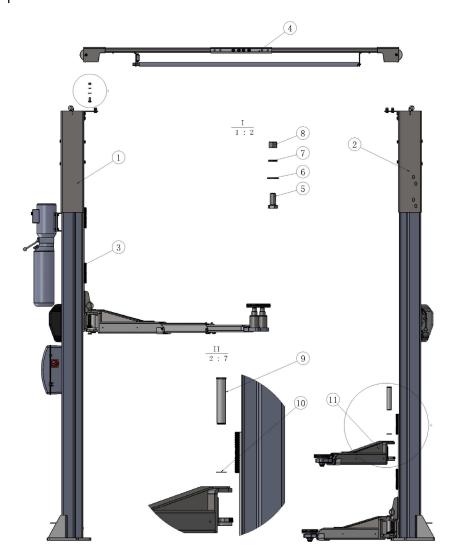
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### Packing List

No	Name	Specification	Qu antity	Remark
1	Post		2	
2	Beam assembly		1	
3	Arm assembly		4	
4	Arm pin shaft		4	
5	Heighten tools		4	
6	Tray		4	
7	Steel rope assembly		2	
8	Carriage assembly		2	
9	Post upper section		2	
10	Beam connect board		2	
11	Oil pipe(set)		1	

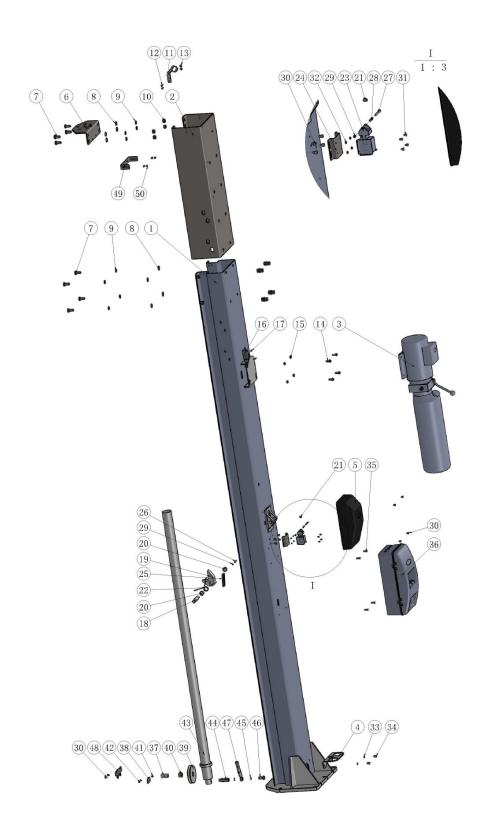
12	Pump station assembly	1	
13	Electric control box assembly	1	
14	Gas - electric socket	1	
15	Standard part carton	1	
16	Expansion bolt	10	
17	Inspection report	1	
18	User's manual	1	
19	Packing list	1	

### Explosive view:



No.	Name	Series No.	Specification	Quantity
1	Main post	21015411000		1
2	Vice Post	21015412000		1
3	Carriage assembly	21015220000		2
4	Beam assembly	21015440000		1
5	External six-bolt		M14*30	4
6	Flat pad		ф14	4
7	Spring pad		ф14	4
8	Hex nuts		M14	4
9	Pin	91015120900		4
10	Shaft with the ring		ф38	4
11	Arms	21015430000		4

Main Post:



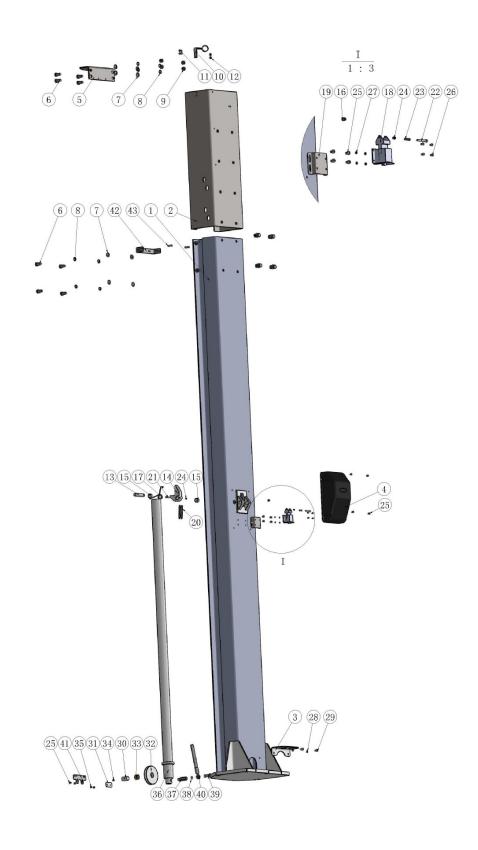
No.	Name	Series No.	Specification	Quant ity
1	Main post welding parts-4.5C	21015310100		1

2	Post upper section welding parts	2101521030 0		1
3	Pump			1
4	Heighten tools bracket	9101511100 0		1
5	Electromagnetic cover	9101320000		1
6	Beam connector	2101311030 0		1
7	Hex head bolt		M14×30	12
8	Flat Washers		ф14	12
9	Spring washer		ф14	12
10	Hex nuts		M14	8
11	Tubing bracket welding parts			1
12	Hex head bolt		M6×20	2
13	Hex flange nut		M6	2
14	Hex head flange bolts		M8×25	4
15	Hex flange nut		M8	4
16	Limit switch		ME8108	1
17	Hexagon socket head cap screws		M5×12	2
18	Mechanical lock shaft			1
19	Big board - GM	2101311130 0		1
20	Mechanical lock spacer 14			2
21	Socket hexagon socket set screws		M10×12	1
22	Torsion spring - electromagnet			1
23	Electromagnet			1
24	Solenoid bracket	9101121110		1
25	Pull plate	9101121100 0		2
26	Hexagon socket head cap screws		M5×30	1
27	Hexagon socket head cap screws		M5×45	1
28	Compression spring - electromagnet			1

29	Non-metallic inserts Hex nuts	M5	2
30	Hexagon socket head cap screws	M6×8	10

31	Hexagon socket head cap screws		M4×6	4
32	Hex nuts		M4	4
33	Elastic washers		ф8	2
34	Hexagon socket head cap screws		M8×12	2
35	Hexagon socket head cap screws		M6×20	4
36	Electric control box			1
37	Bottom pulley shaft body			1
38	Bottom pulley shaft fixing plate			1
39	Bottom pulley			1
40	Self-lubricating bearings		253019	1
41	Oil Cup		ф8	1
42	Cross recessed countersunk screw		M6×8	2
43	Plunger cylinder			1
44	Inside and outside through the connector		NPT3-8M14×1.5 -68	1
45	Composite pad		ф14	2
46	Hollow bolt		M14×30	1
47	Tubing		2080mm	1
48	Curtain under the stent			1
49	Curtain up the stent	21015112400		1
50	Hexagon socket head cap screws		M6×10	4

Vice Post:



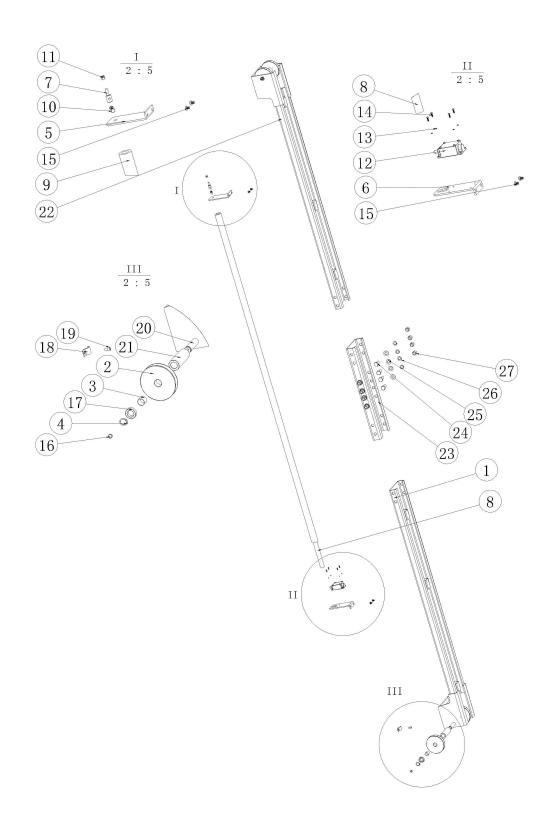
No.	Name	Series No.	Specification	Quant ity
1	post welding parts-4.5C	21015310200		1
2	Post upper section welding	21015210300		1

	parts			
3	Heighten tools bracket	9101511100 0		1
4	Electromagnetic cover	9101320000 2		1
5	Beam connector	2101311030 0		1
6	Hex head bolt		M14×30	12
7	Flat Washers		ф14	12
8	Spring washer		ф14	12
9	Hex nuts		M14	8
10	Tubing bracket welding parts			1
11	Hex head bolt		M6×20	2
12	Hex flange nut		M6	2
13	Mechanical lock shaft			1
14	Big board - GM	2101311130 0		1
15	Mechanical lock spacer 14			2
16	Socket hexagon socket set screws		M10×12	1
17	Torsion spring - electromagnet			1
18	Electromagnet			1
19	Solenoid bracket	9101121110 0		1
20	Pull plate	9101121100 0		2
21	Hexagon socket head cap screws		M5×30	1
22	Hexagon socket head cap screws		M5×45	1
23	Compression spring - electromagnet			1
24	Non-metallic inserts Hex nuts		M5	2
25	Hexagon socket head cap screws		M6×8	10
26	Hexagon socket head cap screws		M4×6	4
27	Hex nuts		M4	4
28	Elastic washers		ф8	2

29	Hexagon socket head cap screws	M8×12	2
30	Bottom pulley shaft body		1

31	Bottom pulley shaft fixing plate			1
32	Bottom pulley			1
33	Self-lubricating bearings			1
34	Oil Cup		ф8	1
35	Cross recessed countersunk screw		M6×8	2
36	Plunger cylinder			1
37	Inside and outside through the connector		NPT3-8M14×1.5 -68	1
38	Composite pad		ф14	2
39	Hollow bolt		M14×30	1
40	Tubing		5520mm	1
41	Curtain under the stent			1
42	Curtain up the stent	21015112400		1
43	Hexagon socket head cap screws		M6×10	4

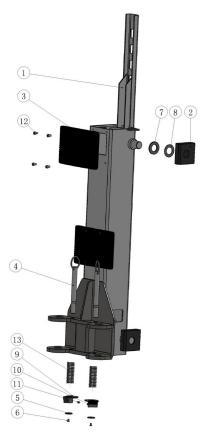
Beam:



No.	Name	Series No.	Specification	Quantity
1	Beam welding parts	21015240100		1
2	Upper pulley(nylon)	91013140200		4

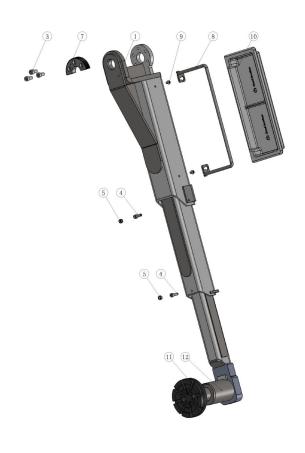
3	Self-lubricating bearings		201819	4
4	Spring washer for axis		ф18	4
5	Angle iron A	91013140600		1
6	Angle iron B	91013140700		1
7	Limit bar connector	91013140900		1
8	Limit bar	91013140800		1
9	Soft rubber cover		<b>ф</b> 35× <b>ф</b> 20×19 40	1
10	Hexagon bolt		M6X30	1
11	Crew		M6	2
12	Limit switch		LX19-001	1
13	Spring washer		ф3	4
14	Cross groove bolt		M3X10	4
15	Cross groove bolt		M6X8	4
16	Oil cup		M8X1	4
17	Upper pulley spacer 10.5	91013140400		4
18	3521-tube pin	91030161305		2
19	Inner hexagon bolt		M6×10	2
20	Upper pulley axis	91013140600		2
21	Upper pulley spacer	91013140300		2
22	Beam welding parts B-45KA	21015240200		1
23	Connect channel iron	91015240300		1
24	Inner hexagon bolt		M14×30	8
25	Flat spacer		ф14	8
26	Spring washer		ф14	8
27	Hexagon screw		M14	8

### Carriage:



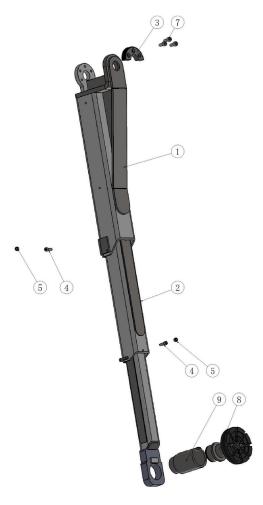
No.	Name	Series No.	Specification	Quant ity
1	Carriage welding parts	21015220100		2
2	Slider -4.5	21015120200		8
3	Carriage rubber protector	21013120300		4
4	Carriage lock axis			4
5	Baffle			4
6	Cross bolt		M6×12	4
7	Slider support pad	21013121400		8
8	Slider adjustment pad	21013121300		8
9	Internal gear welding partsA	21013121100		2
10	Internal gear welding partsB	21013121200		2
11	Flat hexagon socket set screws		M8×12	4
12	Hexagon socket head cap screws		M8×12	16
13	Carriage lock spring	91013121200		4

Arms:



No.	Name	Series No.	Specification	Quant ity
1	ArmR600	91015730100		2
2	Extension tube weld part -middle step R600	91015740100		2
3	Inner hexagon bolt		M10×20	6
4	Inner hexagon bolt		M8×25	4
5	Hexagon screw M8			4
6	Extension tube weld part -end stepR600	91015730300		2
7	Out gear			2
8	Handle welding parts	21013130600		2
9	Hexagon flat round head screw		M8×10	4
10	Tool box			2
11	Tray assembly			2
12	Heighten tools			2

Arms:



No.	Name	Series No.	Specification	Quant ity
1	ArmR750	91015730400		2
2	Extension tube weld part -middle stepR750	91015730500		2
3	Out gear			2
4	Hexagon socket head cap screws		M8×25	4
5	Hex nuts		M8	4
6	Extension tube weld part -end stepR750	91015730600		2
7	Hexagon socket head cap screws		M10×20	6
8	Tray assembly			2
9	Heighten tools			2