

# MJ-6435V2.S / MJ-6435V2.B

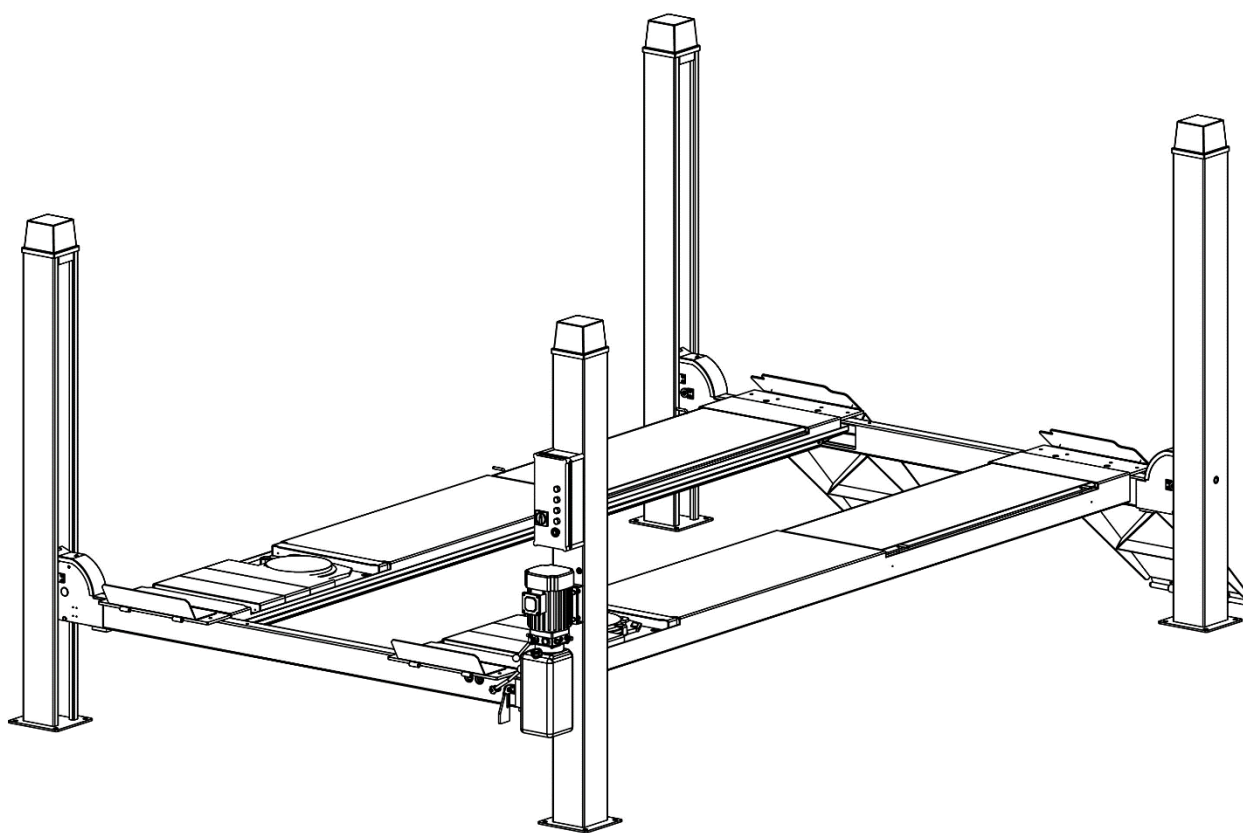
Four Post Lift

Manual Release

Lifting capacity: 5000KG/ 11000 lbs.

Installation, Operation  
and Parts Manual

# MAJOR



*Distributed by*

Please read this entire manual carefully and completely before installation or operation of the lift.

20/06/2019

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## IMPORTANT NOTES

Before start up, connecting and operating MAJOR products, it is absolutely essential that the operating instructions/owner's manual and, in particular the safety instructions are studied carefully. By doing so you can eliminate any uncertainties in handling MAJOR products and thus associated safety risks up front; something which is in the interest of you own safety and will ultimately help avoid damage to the device, When an MAJOR product is handed over to another person, not only the operating instructions but also the safety instructions and information on its designated use must be handed over to the person.

By using the product you agree the following conditions:

### **Copy right**

The enclosed instructions are the property of MAJOR or its supplier, and are protected against duplication and reproduction by copyright laws, international agreements, and other domestic legislation. The reproduction or disclosure of instructions or an extract thereof is prohibited and offenders are liable to prosecution; MAJOR reserves the right or initiates criminal proceedings and asserts claims for damages in the event of infringements.

### **Warranty**

The use of non-approved hardware will result in a modification of our products and thus to the exclusion of any liability or warranty, even if such hardware has been removed again in the interim.

It is not permissible to make any changes to our products and these are not only to be used together with genuine accessories and genuine replacement parts. Otherwise any warranty claims will be invalid.

### **Liability**

The liability of MAJOR is limit to the amount that the customer has actually paid for this product. This exclusion of liability does not apply to damages caused through willful misconduct or gross negligence on the part of MAJOR.

**All information in this manual is believed to be correct at time of publication.**

**MAJOR reserves the right to amend and alter technical data and composition without prior notice.**

**Please confirm at time of ordering.**

# SAFETY NOTES

## 1.1 Operation of lifting platforms

This lift is specially designed for lifting motor vehicles. Users are not allowed to use it for any other purposes. The applicable national regulations, laws and directives must be observed.

Only users aged 18 or above who have been instructed on how to operate the lifting platform and have proven their ability to do so to the owner are to be entrusted with unsupervised operation of lifting platforms. The task of operating the lifting platforms must be granted in writing.

Before loading a vehicle onto the lifting platform, users should study the original operation instructions and familiarize themselves with the operating procedures in several trial runs.

**Lift vehicle within the rated load. Don't attempt to raise vehicles with excessive weight.**

## 1.2 Checking of the lifting platforms

Checks are to be based on the following directives and regulations:

- Basic principles for testing lifting platforms
- The basic safety requirements stipulated in the directive 2006/42/EC
- The applicable accident prevention regulations

The checks are to be organized by the user of the lifting platform. The user is responsible for appointing an expert or qualified person to perform checking. It must be ensure that the person chosen satisfies the requirements.

The user bears special responsibility if employees of the company are appointed as experts or qualified persons.

### 1.2.1 Scope of checking

Regular checking essentially involves performing a visual inspection and a functional test. This includes checking the condition of the components and equipment, checking that the safety systems are complete and functioning properly and that the inspection log book is completely filled in. The scope of exceptional checking depends on the nature and extent of any structural modification or repair work.

### 1.2.2 Regular checking

After initial commissioning, lifting platforms are to be checked by a qualified person at intervals of no longer than one year.

**A qualified person** is somebody with the training and experience required to possess sufficient knowledge of lifting platforms and who is sufficiently familiar with the pertinent national regulations, accident prevention regulations and generally acknowledged rules of engineering to be able to assess the safe operating condition of lifting platforms.

### 1.2.3 Exceptional checking

Lifting platforms with a lift height of more than 2 meters and lifting platforms intended for use with people standing under the load bearing elements of the load are to be checked by an expert prior or reuse following structural modifications and major repairs to load bearing components.

**An expert** is somebody with the training and experience required to possess specialist knowledge of lifting platforms and who is sufficiently familiar with the pertinent national work safety regulations, accident prevention regulations and generally acknowledged rules of engineering to be able to check and give an expert opinion on lifting platforms.

### 1.3 Important safety notices

- 1.3.1 Recommend for indoor use only. DO not expose the lift to rain, snow or excessive moisture.
- 1.3.2 Only use this lift on a surface that is stable, level and dry and not slippery, and capable of sustaining the load. Do not install the lift on any asphalt surface.
- 1.3.3 Read and understand all safety warnings before operating the lift.
- 1.3.4 Do not leave the controls while the lift is still in motion.
- 1.3.5 Keep hands and feet away from any moving parts. Keep feet clear of the lift when lowering.
- 1.3.6 Only these properly trained personnel can operate the lift.
- 1.3.7 Do not wear unfit clothes such as large clothes with flounces, ties, etc., which could be caught by moving parts of the lift.
- 1.3.8 To prevent evitable incidents, surrounding areas of the lift must be tidy and with nothing unconcerned.
- 1.3.9 The lift is simply designed to lift the entire body of vehicles, with its maximum weight within the lifting capacity.
- 1.3.10 Always insure the safety locks are engaged before any attempt to work near or under the vehicle. Never remove safety related components from the lift. Do not use if safety related components are damaged or missing.
- 1.3.11 Do not rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift.
- 1.3.12 Check at any time the parts of the lift to ensure the agility of moving parts and the performance of synchronization. Ensure regular maintenance and if anything abnormal occurs, stop using the lift immediately and contact our dealers for help.
- 1.3.13 Lower the lift to its lowest position and do remember to cut off the power source when service finishes.
- 1.3.14 Do not modify any parts of the lift without manufacturer's advice.
- 1.3.15 If the lift is going to be left unused for a long time, users are required to:
  - a. Disconnect the power;
  - b. Empty the oil tank;
  - c. Lubricate the moving parts with hydraulic oil.

**WARNING:** The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

**Attention:** For environment protection, please dispose the disused oil in a proper way.

## 1.4 Safety duties

All safety warning labels are clearly depicted on the lift to ensure that the operator is aware of and avoid the dangers of using the lift in an incorrect manner. The labels must be kept clean and they have to be replaced if detached or damaged. Please read carefully the meaning of each label and memories them for future operation.

### CAUTIONS

- Read and digest the complete operation instructions before operating the lift.
- This lift is designed to raise the entire body of the intended vehicles. Don't use it for other purposes.
- Inspect the space above and below the load and the loading carrying devices. It shall be free of obstructions before operating.
- Before raising operation, run the lift without load for a complete cycle to ensure it is in good condition.
- Before lifting the vehicle and during all operations on the vehicle, make sure that it is properly stopped by the hand brake.
- Check the vehicle after raising a short distance to ensure that it is correctly and safely positioned.
- The load carrying device shall be observed by the operator throughout the motion of the lift.
- Engage the safety locking mechanism before entering under the raised vehicle.

### WARNINGS

- ONLY authorized persons are permitted in the lift area.
- Avoid excessive rocking of vehicle while on the lift
- Do not climb onto the load or load carrying device when they are raised.

### DANGERS

- It is forbidden for people to stand in the field of motion during raising or lowering movement.
- Do not try to raise a vehicle with excessive length or width. Otherwise there is risk of vehicle falling from lift.
- Do not try to remove, interrupt or modify the safety devices.
- Electrical connection and maintenance must be done by qualified electricians, otherwise there could be danger of electric shock.

**The instructions, cautions and warnings written above as well as in the in Manual cannot cover all possible conditions and situations that may occur. The Common sense for safety must be always in the mind of the operator. For damages caused through willful misconduct or gross negligence, the lift manufacturer or its distributors are excluded of liability.**

## **1.5 Potential risks and safety measures**

### **1.5.1 RISK OF CRUSHING**

#### **Safety measures:**

- During lift functioning, the operator must remain at the control station
- The presence of persons beneath the crossbeams and/or the platforms when they are moving, or the presence of persons inside the danger zone indicated in the following figure is strictly prohibited.
- During operations persons are admitted to the area beneath the vehicle only when the vehicle is already in the elevated position, when the crossbeams and platforms are stationary, and when the mechanical safety devices are engaged
- When the platforms (and vehicle) are lowering the operator must never be partly or completely underneath or near of the movable structure.
- The lift operator must not start the lift until it has been clearly established that there are no persons in danger zone.

### **1.5.2 RISK OF IMPACT**

Caused by the parts of the lift or the vehicle that are positioned at head height.

#### **Safety measure:**

Personnel must be careful to avoid impact with parts of the machine not marked with special colors.

### **1.5.3 RISK OF VEHICLE MOVING**

Caused by operations involving the application of force sufficient to displace the vehicle.

In the case of large or particularly heavy vehicles, sudden movement could create an unacceptable overload or uneven load sharing.

#### **Safety measure:**

Make sure that the vehicle is properly stopped by the hand brake before being raised.

### **1.5.4 RISK OF VEHICLE FALLING FROM LIFT**

This hazard may arise in the case of incorrect positioning of the vehicle on the platforms, incorrect stopping of the vehicle, or in the case of vehicles of dimensions that are not compatible with the capacity of the lift.

#### **Safety measure:**

Check the vehicle after raising a short distance to ensure that it is correctly and safely positioned.

### **1.5.5 RISK OF SLACKENING OF LIFT CABLES**

Caused by objects left leaning against the posts or on the platforms.

#### **Safety measure:**

Inspect the space above and below the load and the loading carrying devices. It shall be free of obstructions before operating.

### **1.5.6 RISK OF SLIPPING**

Caused by lubricant contamination of the floor around the lift.

#### **Safety measure:**

The area beneath and surrounding the lift and also the platforms must be kept clean. Remove any oil spills immediately.

## **1.6 Noise level**

Noise emitted during operating the lift should be less than 70dB. For your health consideration, it is suggested to place a noise detector in your working area.

## PACKING, STORAGE AND TRANSPORTATION

Packing, lifting, handling, transporting operations must be performed only by experienced personnel with appropriate knowledge of the lift and after reading this manual.

### 2.1 The lift was dismantled into the following 2 parts for transportation

Name	Packed by	Dimension(mm)	Weight	Quantity
Lift(48L)	Steel brackets	5150*740*710mm	1500 kg	1
		202 3/4" x29 1/8"x27 15/16"	3300 lbs.	
Lift(52L)	Steel brackets	5550*740*710mm	1650 kg	1
		218 1/2"x29 1/8"x27 15/16"	3630 lbs.	
Lift(57L)	Steel brackets	6050*740*710mm	1850 kg	1
		238 3/16"x29 1/8"x27 15/16"	4070 lbs.	
Ramps	Bubbled film	1500*570*180mm	45kg	2
		59 1/16"x22 7/16"x7 1/16"	99 lbs.	

### 2.2 Storage

The packs must be kept in a covered and protected area in a temperature range of  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ . They must not be exposed to direct sunlight, rain or water.

#### Stacking the packs

We advise against stacking because the packs are not designed for this type of storage. The narrow base, heavy weight and large size of the packs make stacking difficult and potentially dangerous.

If stacking is unavoidable, use all appropriate precautions:

-never stack to more than 2 meters in height.

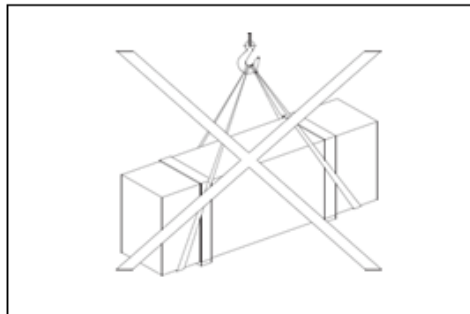
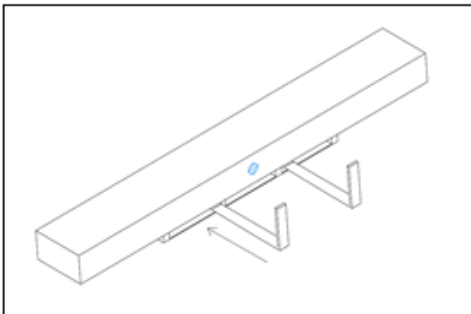
-never make stacks of single packs. Always stack pairs of packs in a cross pattern so that the base is bigger and the resulting stack is more stable. Once the stack is complete, restrain it using straps, ropes or other suitable methods.

A maximum of two packs can be stacked on lorries, in containers, and in railway wagons, on condition that the packs are strapped together and restrained to stop them falling.

### 2.3 Lifting and handling

**The packs can be lifted and transported only by using lift trucks. The center of gravity and lashing points are marked on the packaging.**

Never attempt to hoist or transport the unit using lifting slings.



#### Opening the packs

When the lift is delivered make sure that it has not been damaged during transportation and that all the parts specified on the packing list



are present.

Packs must be opened adopting all the precautions required to avoid injury to persons (keep at a safe distance when cutting the straps) or damage to parts of the machine (be careful that no parts are dropped while you are opening the packing)

**Take special care with the hydraulic power unit, the control panel and the platform cylinder.**

## PRODUCTS DESCRIPTIONS

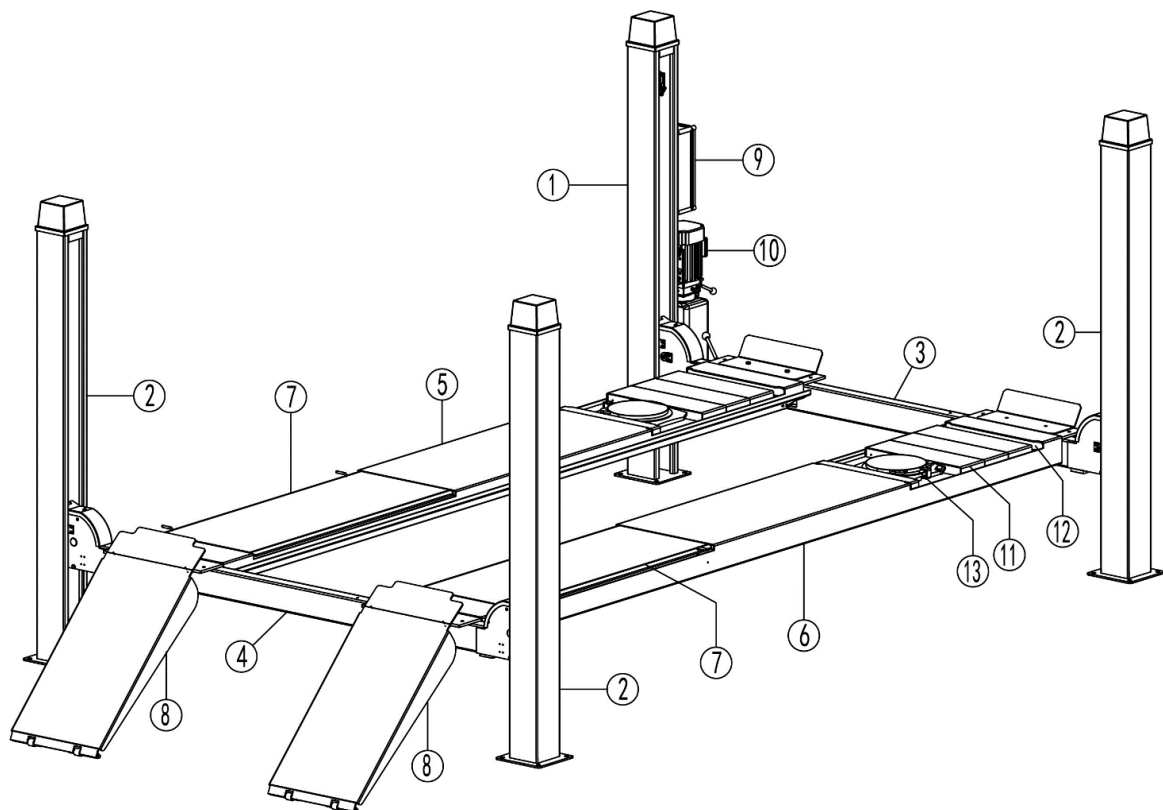
### 3.1 General descriptions

This is wheel support vehicle lift. It is generally composed by four posts, two beams, two platforms, a hydraulic oil cylinder and a set of power unit. Being powered by an electro-hydraulic system, up and down movement is controlled by the to and fro movement of the oil cylinder. To ensure safety for operators, it is equipped with mechanical safety locks in four posts, which automatically engages in case of hydraulic failure.

### 3.2 Construction of the lift

MODEL S: Smooth and flat runway.

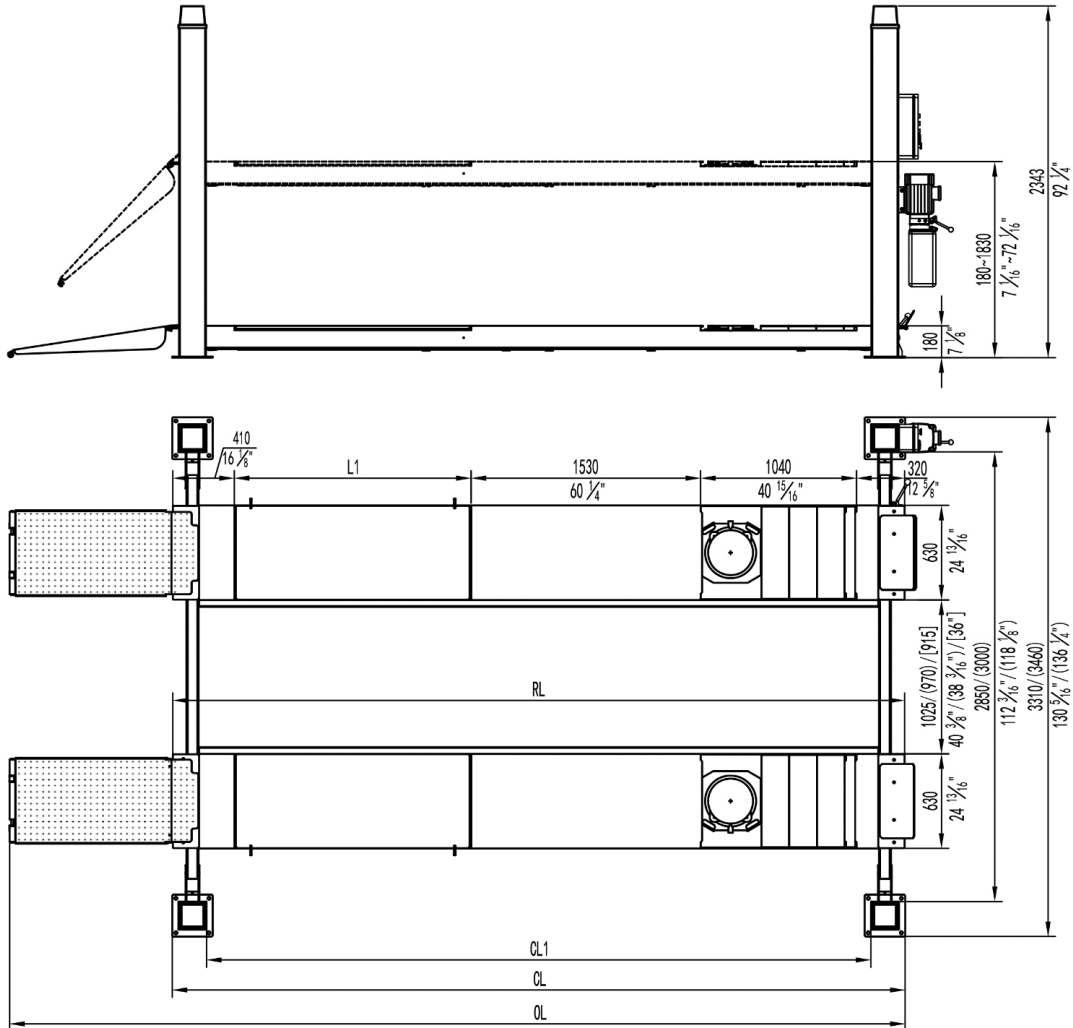
MODEL B: Runway with front recess for turntable and slip plate.



1. Power side post 2. post 3. power side crossbeam 4. the secondary crossbeam 5. Main platform  
6. The secondary platform 7. Slip plate 8. Drive-on ramp 9. Control unit 10. Power unit  
11. Portable box 12. Portable box 13. Turntable (optional)

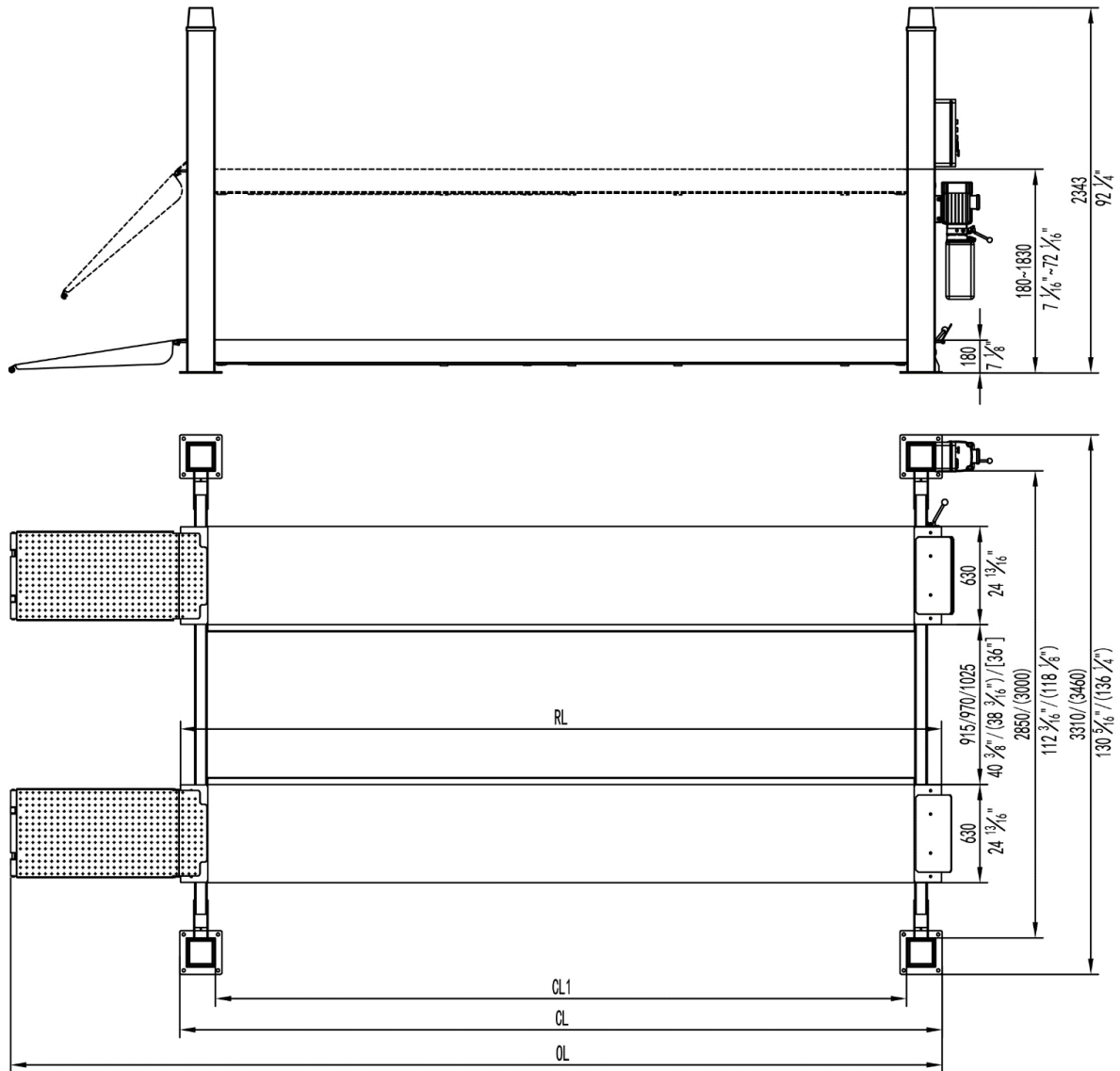
3.3 Dimensions

MODEL B



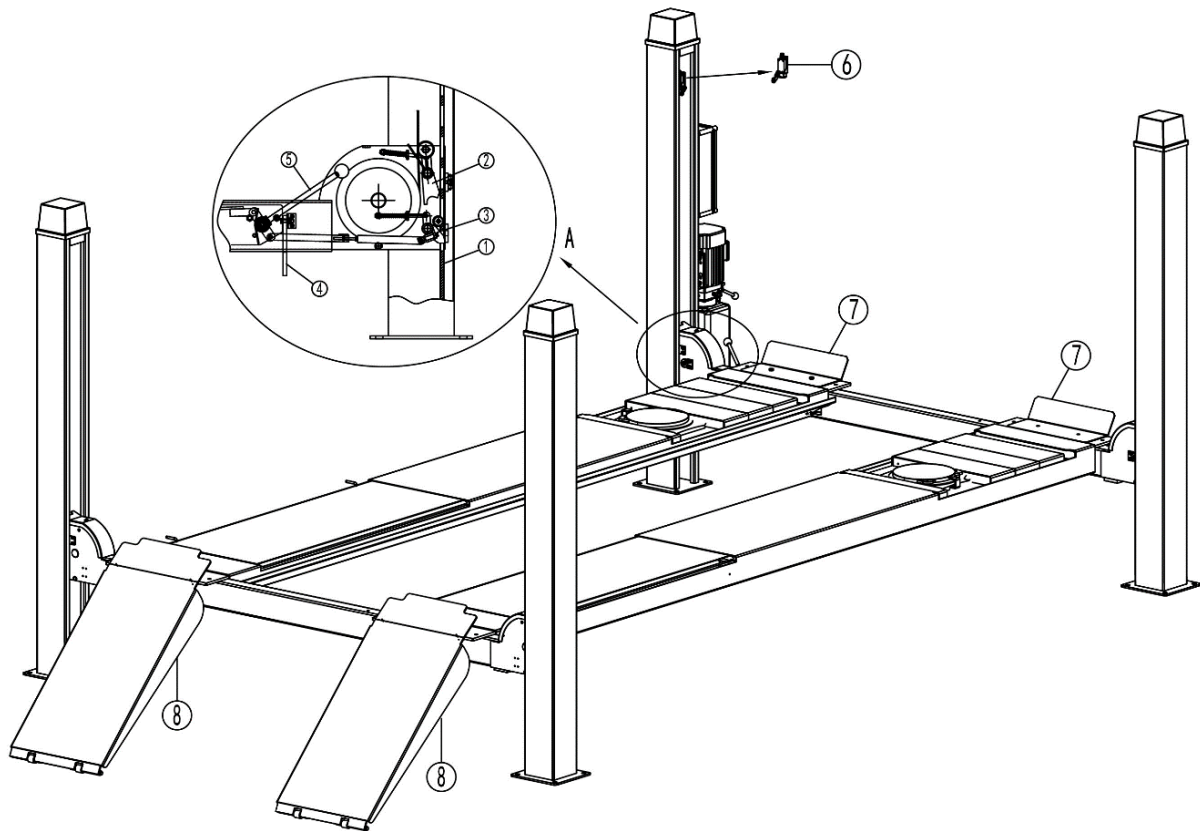
DATA	MODEL		
	48L	52L	57L
RL	4880mm	5280mm	5780mm
	192 1/8"	207 7/8"	227 9/16"
OL	5970mm	6370mm	6870mm
	235 1/16"	250 13/16"	270 1/2"
CL	4888mm	5288 mm	5788 mm
	192 7/16"	208 3/16"	227 7/8"
CL1	4438mm	4838mm	5338mm
	174 3/4"	190 1/2"	210 3/16"
L1	1580	1980	2280
	62 3/16"	77 15/16"	89 3/4"

MODEL S



DATA	MODEL		
	48L	52L	57L
RL	4880mm	5280mm	5780mm
	192 1/8"	207 7/8"	227 9/16"
OL	5970mm	6370mm	6870mm
	235 1/16"	250 13/16"	270 1/2"
CL	4888mm	5288 mm	5788 mm
	192 7/16"	208 3/16"	227 7/8"
CL1	4438mm	4838mm	5338mm
	174 3/4"	190 1/2"	210 3/16"

### 3.4 Safety devices descriptions



NO.	Safety Device	Function
1	Safety rod	Ensure mechanical safety in the rising and lowering process and lock the lifting platform at expected height.
2	Safety block A	
3	Safety block B	
4	Reset plate for mechanical locking unit	Reset the mechanical safety locking unit.
5	Release handle	Disengage the mechanical safety locking unit.
6	Max height limit switch	Control max rising height and protect the oil cylinder.
7	Front wheel stop	Prevent rolling off.
8	Rear wheel stop	Prevent rolling off when the runway rises

### 3.5 Technical data

Item	Data
Power Form	<b>Electro-hydraulic</b>
Rated capacity of the lifting platform	4000kg /8800 lbs.(48L/52L), 5000kg /11000 lbs.(48L/52L/57L)
Full rise height of the main lift	1830mm/ 72 1/16"
Initial height	180mm/ 7 1/16"
Full rise time of the main lift	Approx.60S
Full lowering time of the main lift	Approx.40S
Working pressure	Approx. 20MPa /2900psi
Electricity	AC 220V/230V/240V/380V/400V/415V±5% 50Hz
Capacity	2.2kW
Hydraulic oil	12L (3.16 US gal ), 46# hydraulic oil
Noise	< 75dB

### 3.6 Nameplate

Check the work voltage and the lift capacity printed on the name plate.

Do not lift vehicles with weight beyond the capacity.

S/N and production date could be helpful for future service.

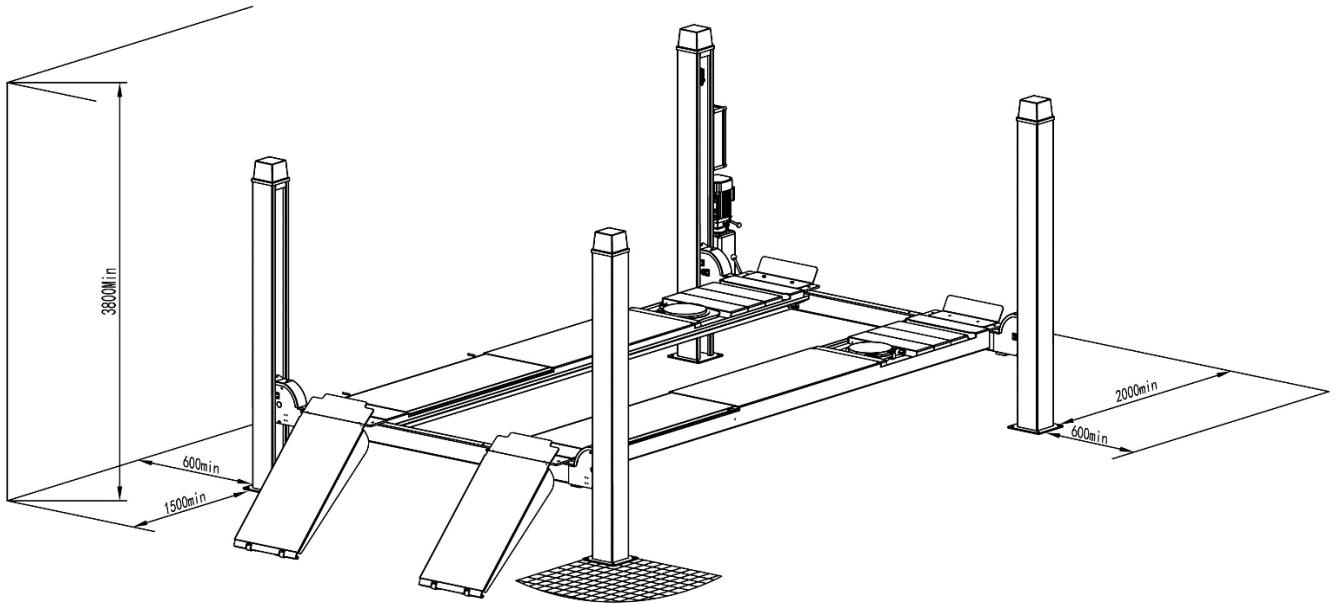
# INSTALLATION INSTRUCTIONS

## 4.1 Preparations before installation

### 4.1.1 Space requirements.

Refer to 3.3 for the dimensions of the lift. There must also be a clearance of at least 0.6 meter between the lifting platform and fixed elements (e.g. wall) in all lifting positions. There must be sufficient space at the ends of the lifting platform for driving vehicles on and off.

To stop vehicles colliding with the ceiling, it is advisable to fit an overhead light barrier in low ceiling buildings.



### 4.1.2 Foundations and connections

The user must have the following work performed before erecting the lift.

- Construction of the foundation following consultation with the manufacturer's customer service or an authorized service agent.
- Routing of the wiring to the installation location. **The user must provide fuse protection for the connection. Electrical system connection must be done by qualified electricians.** Requirements for power supply cable of the installation site: at least 2.5mm<sup>2</sup> wire core for 3Ph power and 4.0mm<sup>2</sup> wire core for 1Ph power.
- Foundations preparations

#### Indoor installation only.

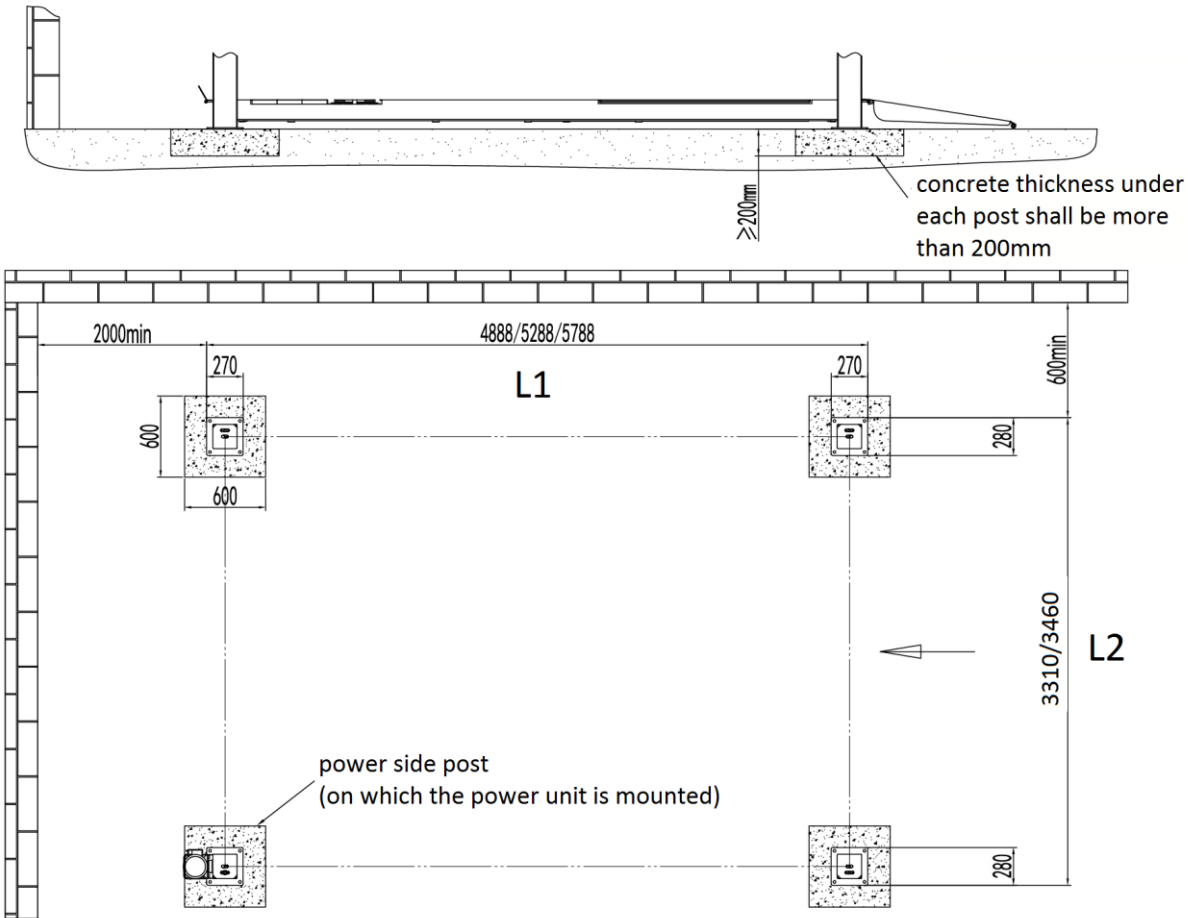
There must also be a clearance of at least 600 mm (23 5/8") between the lifting platform and fixed elements (e.g. wall) in all lifting positions.

There must be sufficient space for driving vehicles on and off.

C20/25 concrete foundation with a minimum thickness of 200mm (7 7/8").

Surface: Horizontal and even (Gradients max. 0.5 %)

Newly built concrete ground must be older than 20days.



Runway length	L1
48L	4888mm/ 192 7/16"
52L	5288mm/ 208 3/16"
57L	5788mm/ 227 7/8"
Width between columns	L2
2850mm/ 112 3/16"	3310mm/ 130 5/16"
3000mm/ 118 1/8"	3460mm/ 118 7/8"

#### 4.1.4 Tools and equipment needed for installation

Tool name	Specification	Quantity
Electrical driller		1
Drill bit	D16 and D18 (L=350mm/ 13 3/4")	1
Open end spanner	D17-19	2
Open end spanner	D22—24	1
Adjustable wrench	>D30	1
Hex socket spanner kits	M3 to M10	1
Torque spanner	MD400	1
Spline end spanner kits	D24—27	1
Phillips screwdriver	PH2	1
Flat Tip screwdrivers	PH2	1
Knife		1
Plumb	this is for levelling	1
Crowbar	40cm	1
Needle Nose Pliers		1
Hammer	4 pounds/10 pounds	1
Circlip Pliers		1

#### 4.1.5 Checking parts

Unfold the package and check if any parts missed as per the following list. Do not hesitate to contact us in case any parts missed, but if you do not contact us and insist installing upon the lack of some parts, we as well as our dealers will not bear any responsibility for this and will charge for any parts subsequently demanded by the buyer.

S/N	Name	Qty
1	Power side post	1
2	Secondary post	3
3	Main crossbeam	1
4	Secondary crossbeam	1
5	Platform A	1
6	Platform B	1
7	Front wheel retainer	2
8	Post cap	4
9	Protective cover	4
10	Slider holder	8
11	Plastic chain	1
12	Wire terminal box	2
14	Rubber pad	4
15	Hex socket flat head screw M12x80	8
16	Hex socket button head screw M8x20	8



S/N	Name	Qty
17	Hex head full swivel screw M12x30	4
18	Hex head full swivel screw M10x35	4
19	Spring washer $\Phi 10$	4
20	Hex nut M10	4
21	Flat washer $\Phi 10$	4
22	Anti-vibration pad	4
23	Flat washer $\Phi 8$	20
24	Ramp shaft	2
25	Expansion bolt M16x120	16
26	Control cabinet	1
27	Power unit	1
28	Manual	1
29	Drive-on ramp	2

## 4.2 Installation attentions

4.2.1 Joints of oil hose and wiring must be firmly connected in order to avoid leakage of oil hose and looseness of electrical wires.

4.2.2 All bolts should be firmly screwed up.

4.2.3 Do not place any vehicle on the lift in the case of trial running.

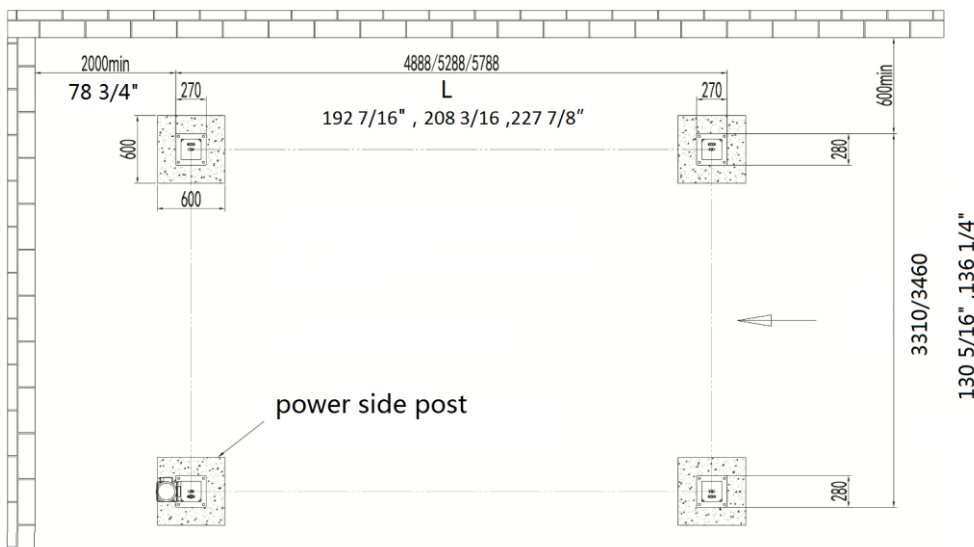
## 4.3 General installation steps

**ONLY TRAINED AND QUALIFIED INSTALLERS CAN PERFORM LIFT INSTALLATION DUTIES.**

### Step 1: Ascertain the layout dimensions.

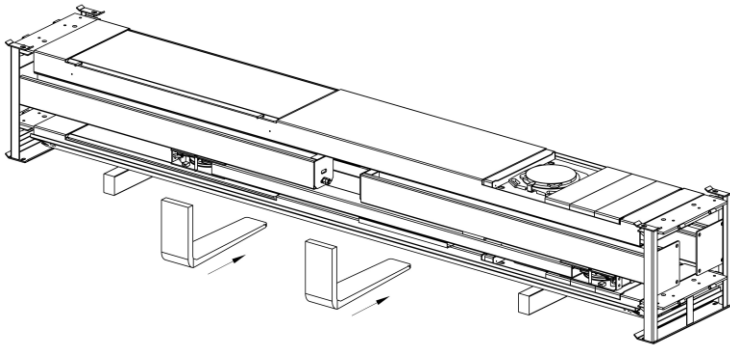
Mark the four positions for base plate of the four posts by a tape measure and chalk.

Ensure two diagonal lines are of the same length.

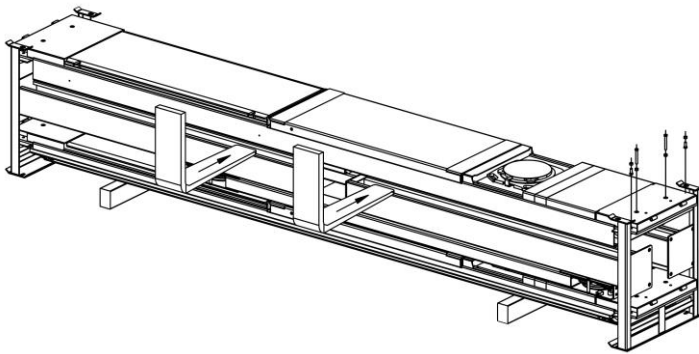


**Step 2: Remove the packing materials.**

1.Prepare 4 wooden battens with thickness being more than 100mm and length being more than 700mm. (other dependable devices may also applicable). Forklift the packing rack onto two of the battens so as to make its base be clear off the ground.



2. Suspended the upper platform using the forklift, screw off the corresponding bolts that fixed with the packing racket and remove the upper platform onto the rest two battens.



3. Screw off the under bolts and take away the packing racks at both sides.

4. Remove the packing film.

**Step 3: Position four posts and two crossbeams.**

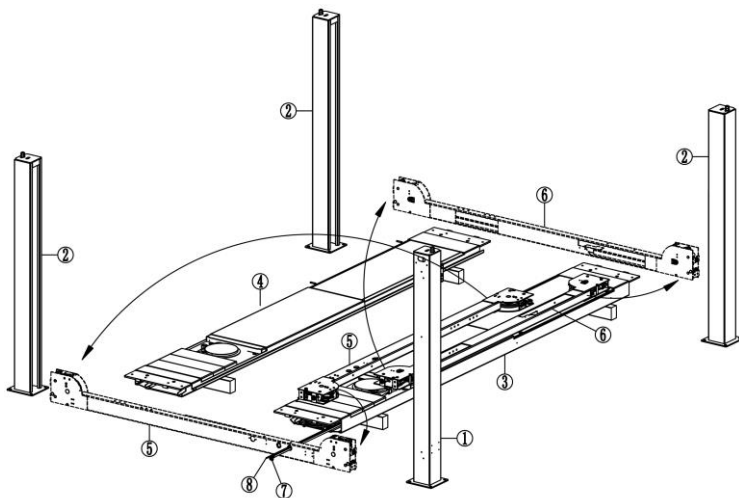
Place four posts to standing positions as per the layout dimensions.

Put parts like control unit, power unit, tank chain, post caps and protective covers aside.

Move the rest two crossbeams in the direction of the arrows indicated in the following scheme.

CAUTION:

**Make sure to read and understand before trying to remove the crossbeams. Otherwise, there is a risk of damaging the steel ropes.**



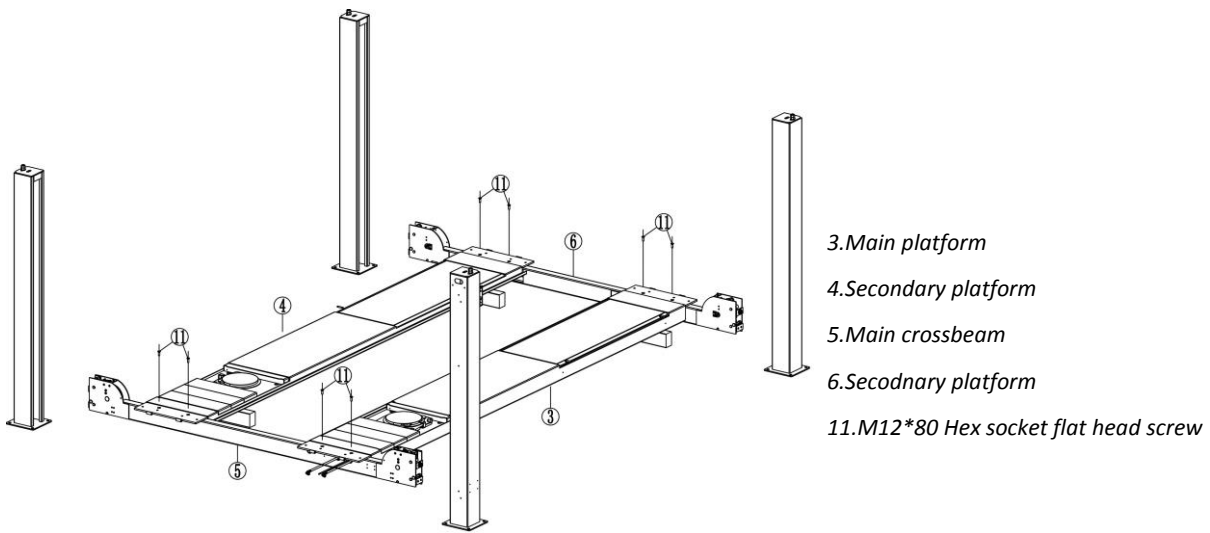
- 1. Power side post
- 2. Post
- 3. Main platform
- 4. Secondary platform
- 5. Main crossbeam
- 6. Secondary crossbeam
- 7. Oil-supply hose
- 8. Oil-return hose

Pull oil hoses No.7 and No.8 from the main platform and make them go through the right side hole reserved at the crossbeam.

(The hose No.7 has a right-angled fitting.)

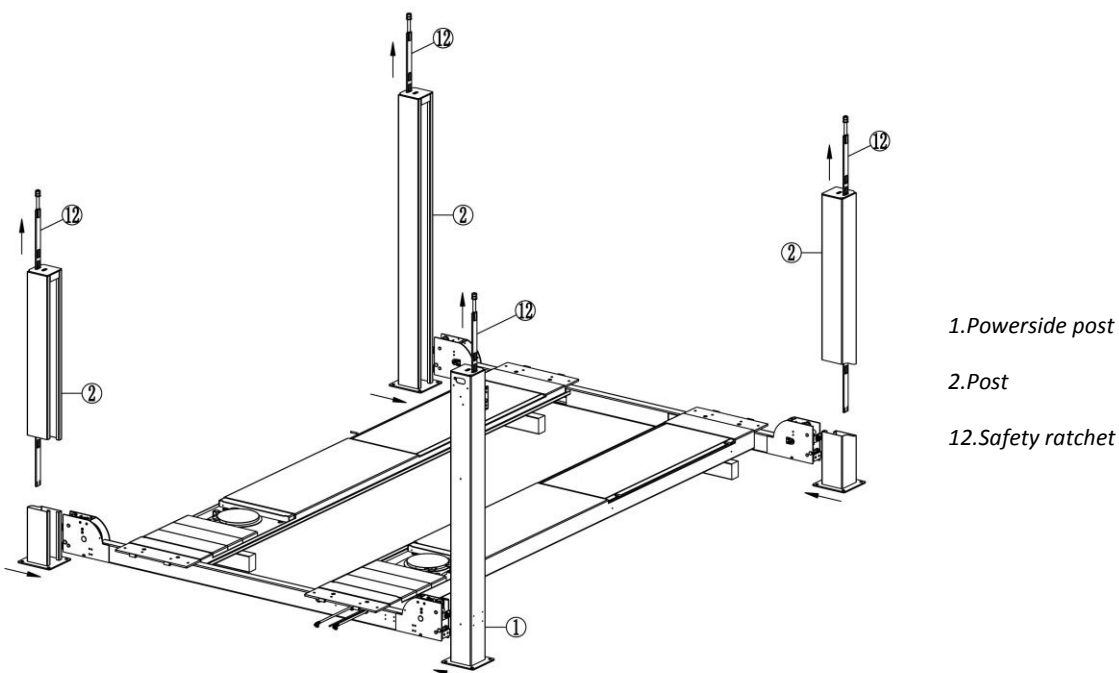
**Step 4: Assemble crossbeams onto both ends of the platforms.**

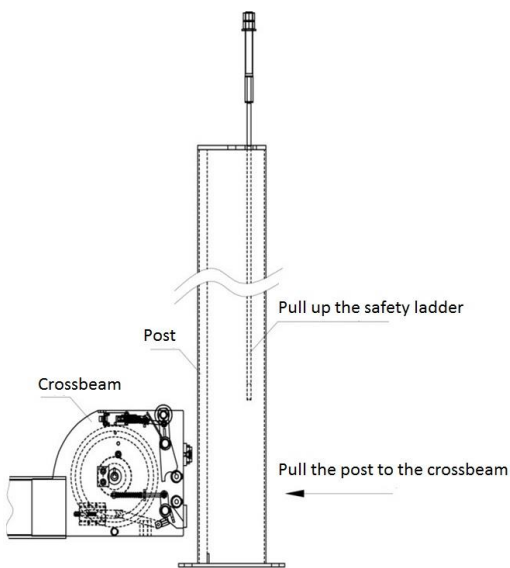
1. Align the two platforms at both ends and keep a distance about 1025mm between them (excluding the width of the two tracks for rolling jacks)
2. Connect the crossbeam and the lifting platform using hex socket flat head screws (M12\*80). Tighten all the screws only after two crossbeams are well fit with the two platforms. Use proper lifting device to move the corresponding platform, in the case the screw holes are not well aligned.



**Step 5: Install posts and ratchets of the mechanical locking device.**

1. Pull the safety ratchet (No.12) through the hole on the top of the post until the other end of the ratchet is above the end of crossbeam.  
(Use proper devices to keep the four ratchets stay above the ends of crossbeam as indicated in the following fig.)





2. Push the power side post to the direction of the crossbeam and insert the ratchet down through the inner surface of the end plates of the crossbeam.

**Step 6: Route and fix steel ropes.**

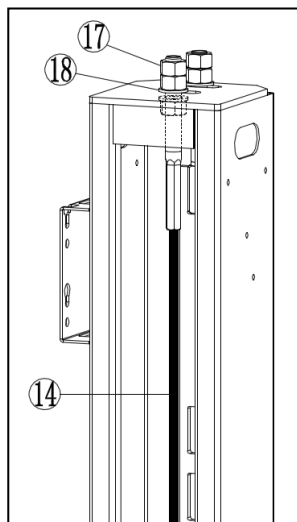
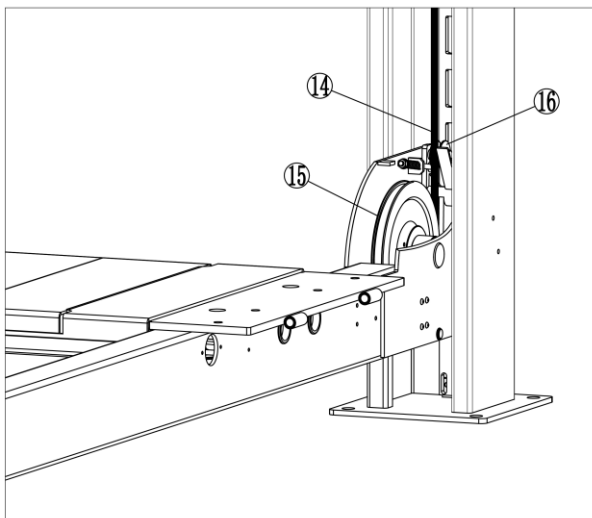
**Please see Annex 1 for steel cable routing.**

Inspect and make the rope be in the slot of the two pulleys (No.15 and No.16 in the following fig.)

Pull the rope (No.14) up through the hole reserved on top of the post and fix it with screws.

(Attention: Fix with two M20 nuts (No.17) and one  $\phi 20$  flat washer (No.18) above the top plate.

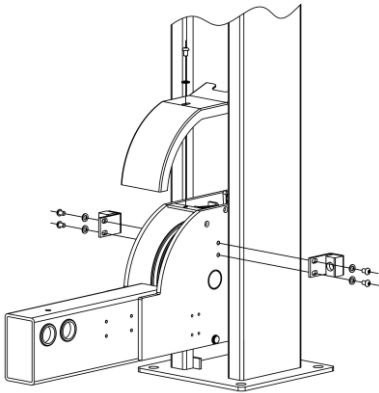
Fix with one M20 nut and one  $\phi 20$  flat washer under the top plate.)



- 14. steel rope
- 15. pulley A
- 16. small pulley
- 17. M20 nut
- 18.  $\phi 20$  flat washer

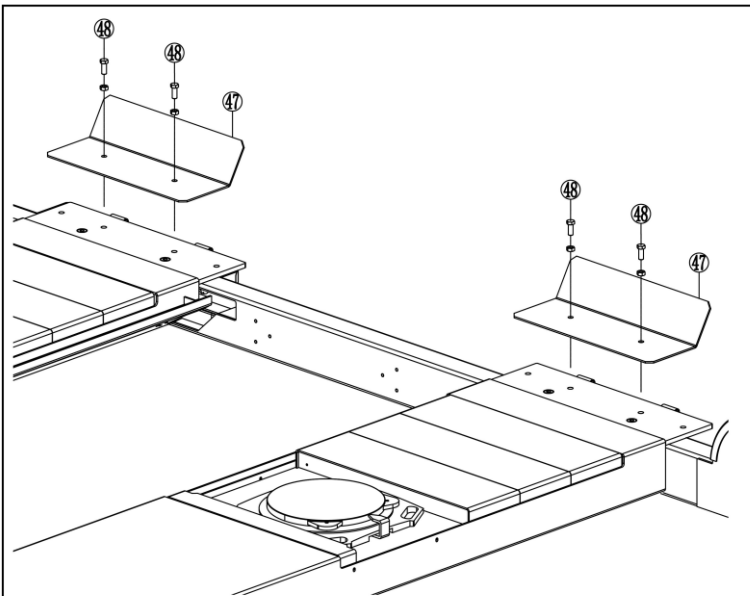
**Step 7: Fit on 8 nylon sliders and 4 protection covers.**

1. Fasten the slider to its holder and then connect the slider holder and the cross beam.
2. Fix protection covers.



**Step 8: Fix the front wheel retainers and drive-on ramps.**

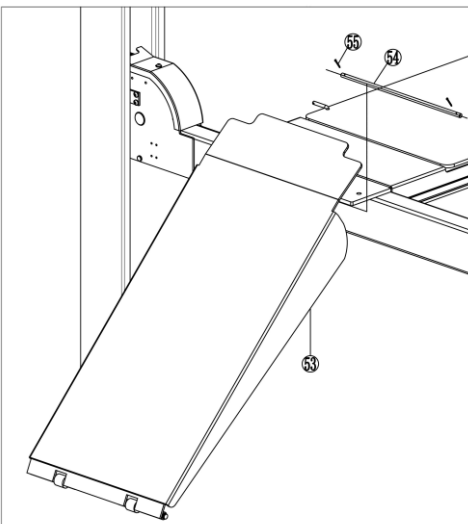
1. Fix the front wheel retainer (No.47) onto the front end of each platform.



47. front wheel retainer

48.M12\*30 hex head full threaded bolts

2. Mount the drive-on ramp (No.53) onto the rear end of each lifting platform using pin shafts (No.54) and cotter pins (No.55).



53.drive-on ramp

54.pin shaft

55. cotter pin

**Step 9: Fit on four post caps on top of the four posts.**

**Step 10: Connect the electrical and hydraulic system.**

**ONLY** qualified electricians are permitted to do the electrical connection.

Refer to electrical and hydraulic connection diagrams before making connection.

*(For three phase power supply, if the lift doesn't raise and the motor may turn in the wrong direction, in such event, interchange wires U, V in the control cabinet).*

**Step 11: Fill with hydraulic oil.**

**ONLY CLEAN AND FRESH OIL ONLY .Lift must be fully lowered before changing or adding hydraulic oil.**

Fill into the oil tank with 10 liters of anti-abrasive hydraulic oil.

It is recommended to use HM No.46 hydraulic oil. Use HM No.32 hydraulic oil when average temperature of the location is below 10 degree Celsius.

**Change the oil 6 months after initial use and change once per year thereafter.**

**Step 12: Trial commission**

1. Check the electrical connection with electrical schemes to ensure that all wires are correctly connected.

Inspect steel cables at four corners of the two crossbeams to ensure that all cables are correctly in pulley slots and are not twisted with each other. (See Annex 1 for steel cable connection scheme)

2. Connect the power supply and push slightly the button for raising to check if the motor runs in the correct direction. (In case the motor runs in wrong direction, interchange wires U, V in the control cabinet.) Check oil hoses to ensure all connectors are tight against leakage.

3. Push the button for raising until steel ropes are stretched tightly. Check the steel ropes again to ensure they are in the pulley slots and are not twisted.

**Step 13: Levelling**

*Attention: No vehicle on platforms for levelling operation.*

**Firstly, align the level at four corners of the runway when mechanical safety locks are released.**

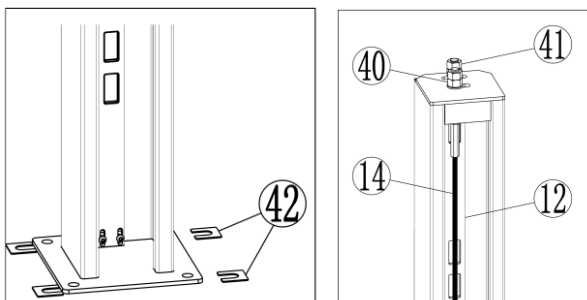
Switch on and push the UP button. Push the up button until the runway stays at a height about 800mm over the floor. Measure at the four corners of the runway to see if the height are almost the same. Check with a tape measure. The deviation of the liquid level shall be within 3mm. In case the deviation exceeds 3mm, correspondingly adjust the nuts (No.40) attached with cable over the top plate of the post until the deviation is controlled within 3 mm.

**Secondly, align the level at four corners of the runway when mechanical safety locks are engaged.**

Push the up button until the runway stays at a height about 800mm over the floor. Push the handle for lowering to park the runway.

Measure at the four corners of the runway to see if the height are almost the same. Check with a tape measure. The deviation of the liquid level shall be within 3mm. In case the deviation exceeds 3mm, correspondingly adjust the nuts (No.41) attached with safety ratchet over the top plate of the post until the deviation is controlled within 3 mm.

Attention: In case of poor foundation level, you will not be able to control the deviation through making the above adjustment. In this case you have to place equalizing plates (No.42) under the base plate to ensure the verticality of each post.

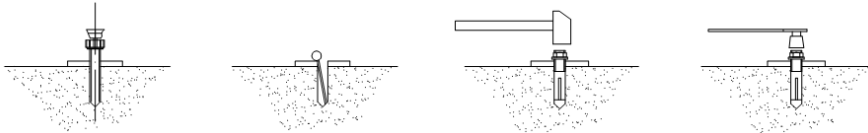


**Step 14: Fix the expansion bolts**

**Screw torque: 80Nm.**

Before anchoring, it is necessary to check again the position for each post properly by referring to the dimension scheme as well as the corresponding installation requirements.

- Drill holes using D16 carbide tipped masonry drill bit. Make sure to drill vertically down. Depth of the hole should be no less than 120mm.
- Clean the hole and check again the position of the posts to ensure they are correctly positioned.
- Use a spirit level to check the vertical alignment of the lifting posts. If necessary, place equalizing plates under the base plates.
- Impact and drive anchoring bolt into hole until nut and washer contact base.
- Tighten the nut with torque wrench to 80Nm.



**4.4. Items to be checked after installation**

S/N	Check items	YES	NO
1	Screw torque of expansion bolts : : 70-80Nm;;		
2	Rising speed $\geq 20$ mm/s;		
3	Noise with rated load $\leq 75$ dB;		
4	Grounding resistance: not bigger than 4 $\Omega$ ;		
5	Height difference of the two platform $\leq 3$ mm;		
6	Mechanical locks are robust and synchronized when running with rated load ;		
7	If the control button works as “hold to run”?		
8	If limit switches work well?		
9	If grounding wire is connected?		
10	If the lift rises and lowers smoothly?		
11	If there is no abnormal noise during running with rated load?		
12	If there is no oil leakage when running with rated load?		
13	If expansion bolts, nuts or circlips are well secured?		
14	If max lifting height is 1830mm?		
15	If Safety advices, name plate and logos are clear?		

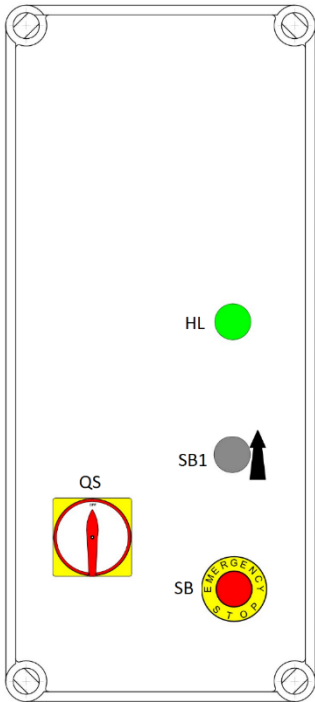
## OPERATION INSTRUCTIONS

### 5.1 Precautions

- ONLY authorized persons are permitted in the lift area.
- Do not try to raise the vehicle with excessive length or width. Otherwise there is risk of vehicle falling from lift.
- Inspect the space above and below the load and the loading carrying devices. It shall be free of obstructions before operating.
- Before raising operation, run the lift without load for a complete cycle to ensure it is in good condition.
- Before lifting the vehicle and during all operations on the vehicle, make sure that it is properly stopped by the hand brake.
- Check the vehicle after raising a short distance to ensure that it is correctly and safely positioned.
- It is forbidden for people to stand in the field of motion during raising or lowering movement.
- The load carrying device shall be observed by the operator throughout the motion of the lift.

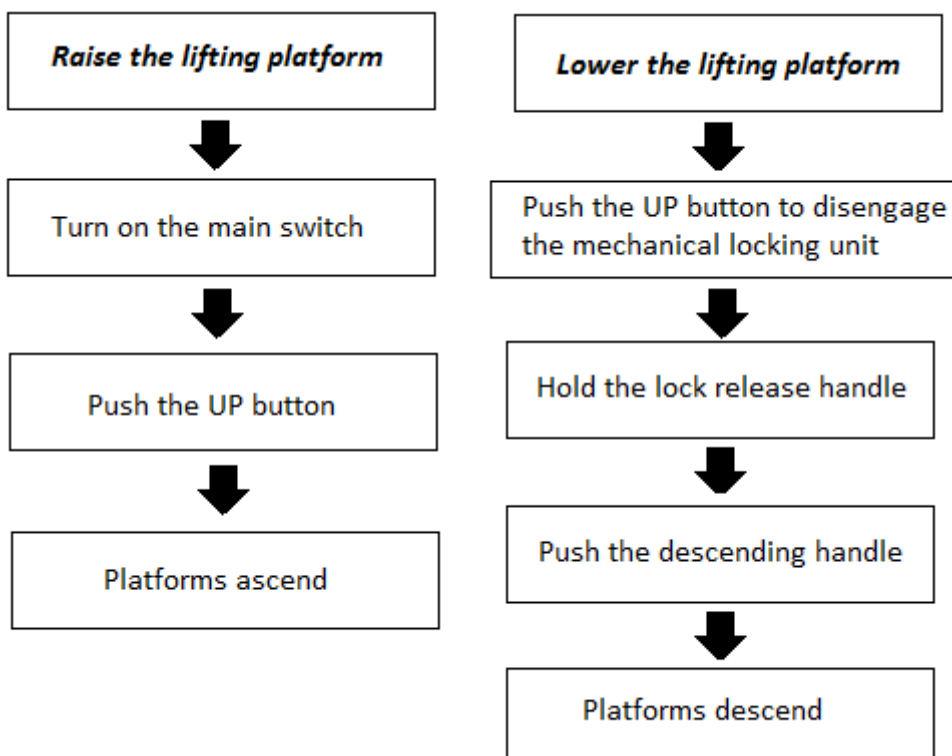
- Engage the safety locking mechanism before entering under the raised vehicle.
- Avoid excessive rocking of vehicle while on the lift
- Do not climb onto the load or load carrying device when they are raised.

## 5.2 Descriptions of control panel



POS.	Name	Function
QS	Power switch	Power on/ off
HL	Power indicator	Display if electricity is connected
SB1	UP button	Control the rising movement
SB	Emergency stop	Quick stop

## 5.3 Flow chart for operation





## 5.4 Operation instructions

**The lift must be only used in a static position for lifting and lowering vehicles.**

**Only use this lift on a surface that is stable and capable of sustaining the load. Do not install the lift on any asphalt surface.**

To avoid personal injury and/or property damage, permit only trained personnel to operate the lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lifting platform.

### ***Raise the lift***

Make sure vehicle is neither front nor rear heavy and center of balance should be centered over the lift.

1. Turn on the power switch.
2. Park the vehicle on the platforms to ensure its gravity is positioned midway of the platforms.
3. Push the UP button until rise to the expected height.
4. Before perform any service around or under the vehicle, push the descending handle to ensure the mechanical safety lock is fully engaged. Turn off the power so as to avoid any wrong operation done by irrelevant personnel and check again the stability of the vehicle.

### ***Lower the lift***

Pay careful attention that all personnel and objects are kept clear.

1. Turn on the power switch.
2. Push "UP" button to disengage the mechanical safety locking unit.
3. Push and hold the mechanical lock release handle.
4. Push the descending handle connected with the unloading valve in the hydraulic block and the platform starts descending.

## TROUBLE SHOOTING

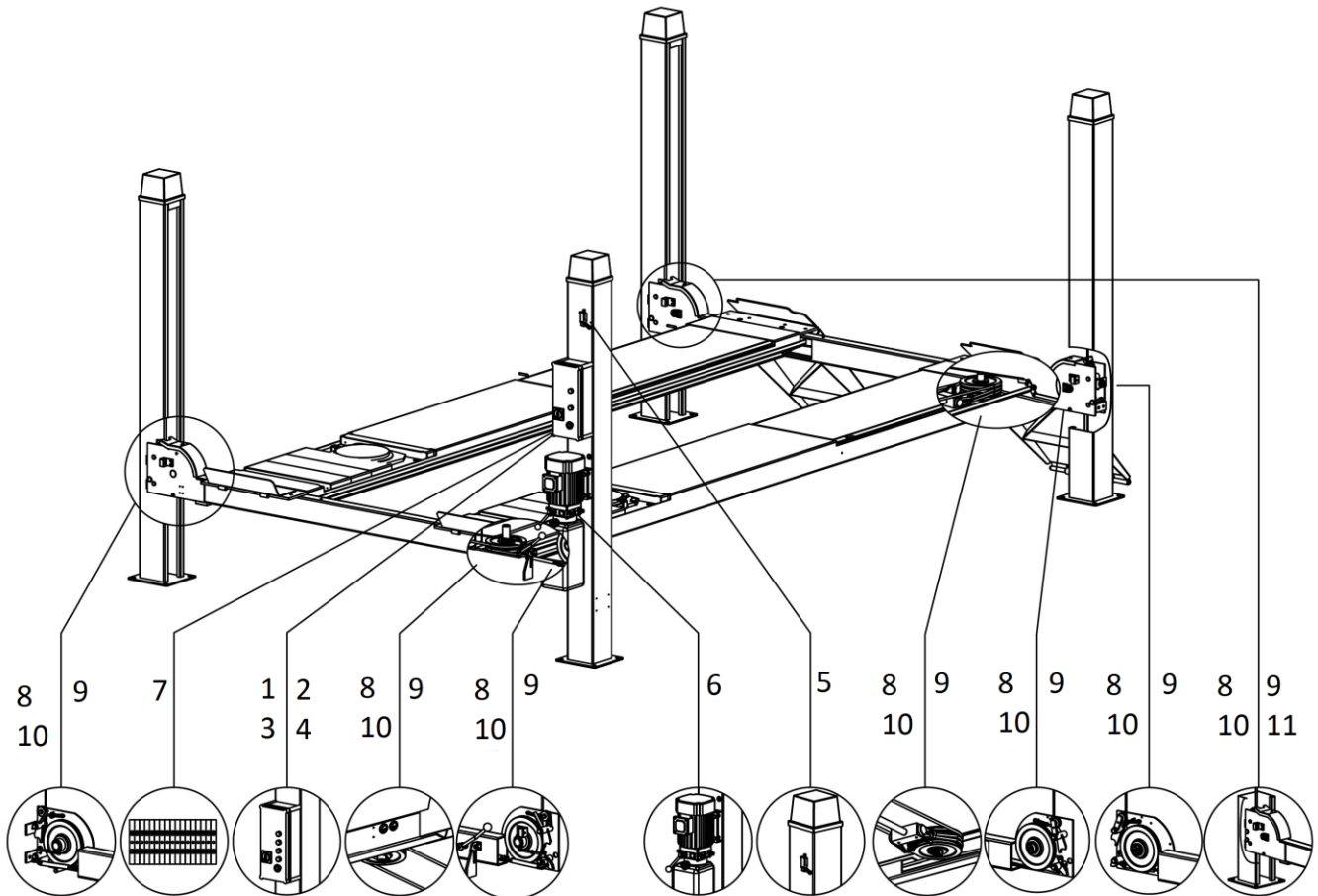
**ATTENTION:** If the trouble could not be fixed by yourself, please do not hesitate to contact us for help .We will offer our service at the earliest time we can. By the way, your troubles will be judged and solved much faster if you could provide us more details or pictures of the trouble.

TROUBLES	CAUSE	SOLUTION
Abnormal noise	Abrasion exists on insider surface of the posts.	Grease the inside of the post.
	Trash in the post.	Clear the trash
Motor does not run and will not rise	Loose wire connection	Check and make a good connection.
	Blown motor.	Replace it.
	Damaged limit switch or its wire connection is loose.	Adjust or replace the limit switch.
Motor runs but will not rise	The motor run reversely.	Check the wire connection.
	Overflow valve is not well screwed up or jammed.	Clean or make adjustment
	Damaged gear pump.	Replace it.
	Too low oil level.	Add oil.
	The hose connection is loose.	Tighten it.
	The cushion valve is not well screwed up or jammed.	Clean or make adjustment
Platforms go down slowly after being raised	The oil hose leaks.	Check or replace it.
	Untightened oil cylinder.	Replace the seal.
	The single way valve leaks.	Clean or replace it.
	The overflow valve leaks.	Clean or replace it.
	Unloading valve fails to work well.	Clean or replace it.
	Slack steel cable	Check and adjust the tightness.
Rising too slow	Jammed oil filter	Clean or replace it.
	Too low oil level.	Add oil.
	The overflow valve is not adjusted to the right position.	Make adjustment.
	Too hot hydraulic oil ( above 45° ) .	Change the oil.
	Abraded seal of the cylinder	Replace with new seal.
	Inside surface of the posts is not well greased.	Add grease.
Lowering too slow	Jammed throttle valve	Clean or replace.
	Dirty hydraulic oil	Change the oil.
	Jammed anti-surge valve	Clean it.
	Jammed oil hose	Replace it.
Over worn steel cable	No grease at installation or out of lifetime	Replace it.

# MAINTENANCE

Easy and low cost routine maintenance can ensure the lift work normally and safely. Following are requirements for routine maintenance. Follow the below routine maintenance schedule with reference to the actual working condition and frequency of your lift.

**LUBRICATE moving parts with lithium grease.**

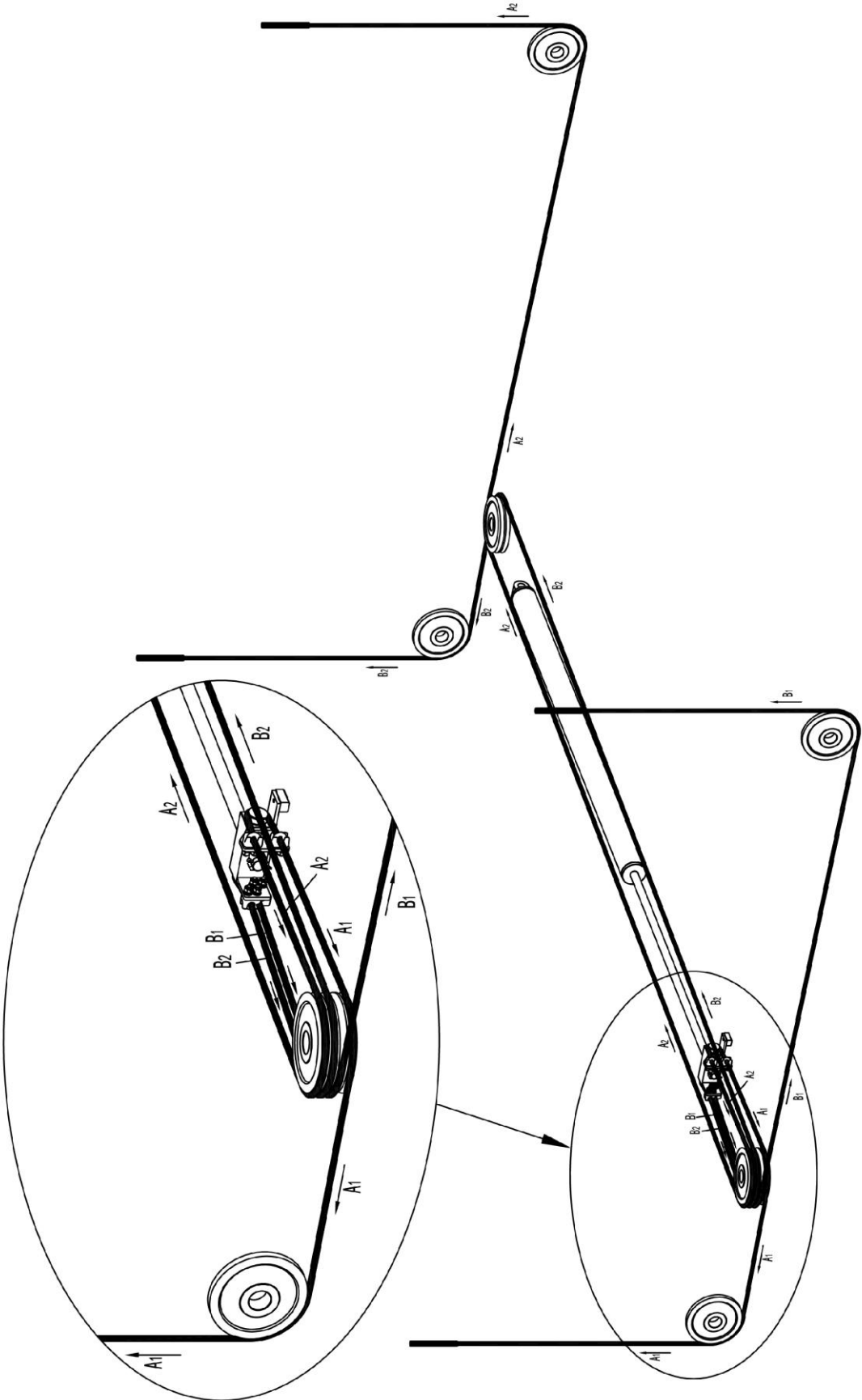


S/N	Components	Methods	Period
1	Control buttons	Check if control buttons work as "hold- to -run " and check if they work as the function indicated.	Every day
2	Synchronization of the ascending movement	Push the UP button, check and ensure the four mechanical safety blocks give off sound simultaneously. Both runways shall rise steadily without abnormal sounds.	Every day
3	Synchronization of mechanical safety catch	Push the LOCK button, inspect and ensure the four mechanical safety catches are fully engaged at the same height. Front the rear side of the runway shall be of the same level.	Every day
4	Synchronization of the descending movement	Push the DOWN button, inspect and ensure both runways can descend smoothly.	Every day

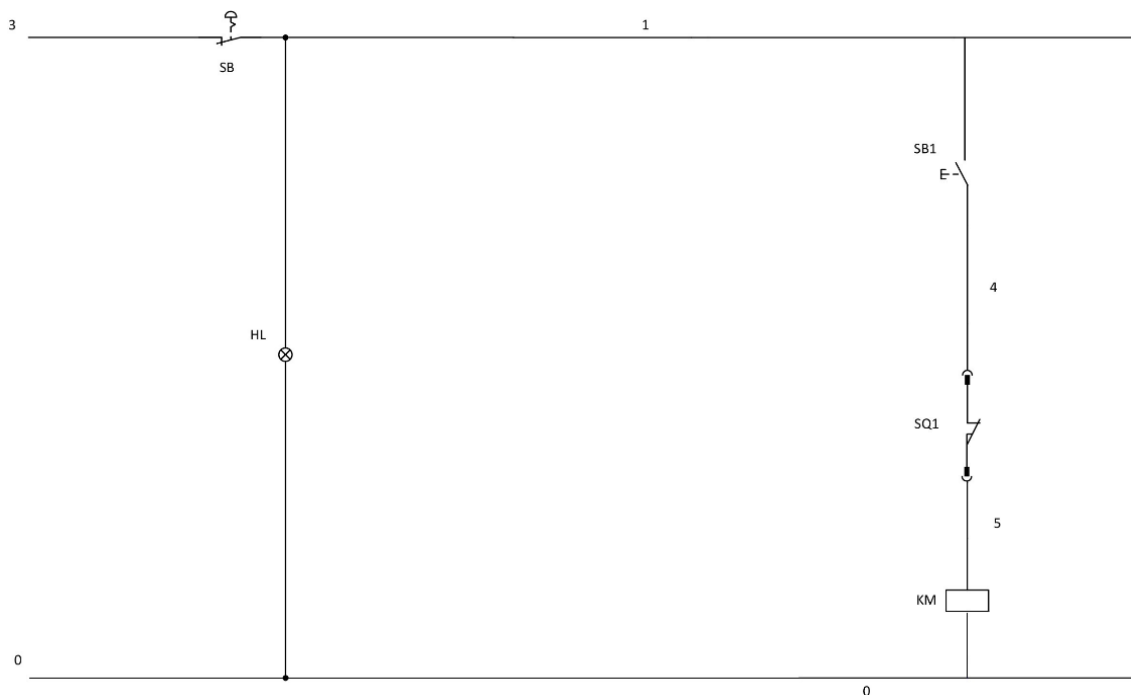
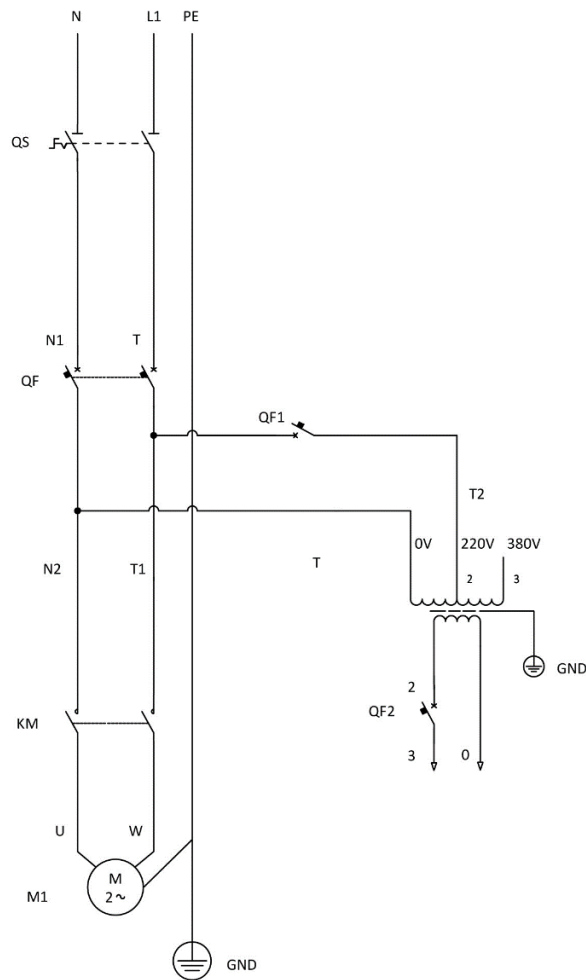
S/N	Components	Methods	Period
5	Max height limit switch	Push the UP button and inspect and ensure the runways stop rising at maximum lifting height.	Every week
6	Hydraulic valves	Inspect if any valve leaks. Clean or change the valve if it leaks.	Every 3 months
7	Electrical terminals	Open the control box to inspect all wire terminals. Screw firm if any terminal connection is loose.	Every 3 months
8	Steel cables	Lubricated with NO.1 lithium grease. Change with new steel cables every 2 years or ten single wires have broken.	Every 3 months
9	Pulley	Lubricated with NO.1 lithium grease. Replace with new pulley in the case that: 1) Surface cracks 2) Uneven slot: bigger than 3mm 3) Over-wearing. 20% of pulley slot is abraded	Every 3 months
10	Shaft of the pulley	Add grease.	Every 3 months
11	Sliding blocks	Add grease.	Every 3 months
	Whole lift	Running the lift for several cycles with and without rated load. The lift can run steadily and smoothly with no abnormal noise.	Every 3 months
	Hydraulic oil	Change the oil 6 months after initial use and once per year thereafter. Inspect the hydraulic oil and change the oil if the oil becomes black or there is dirt in the oil tank.	Every year

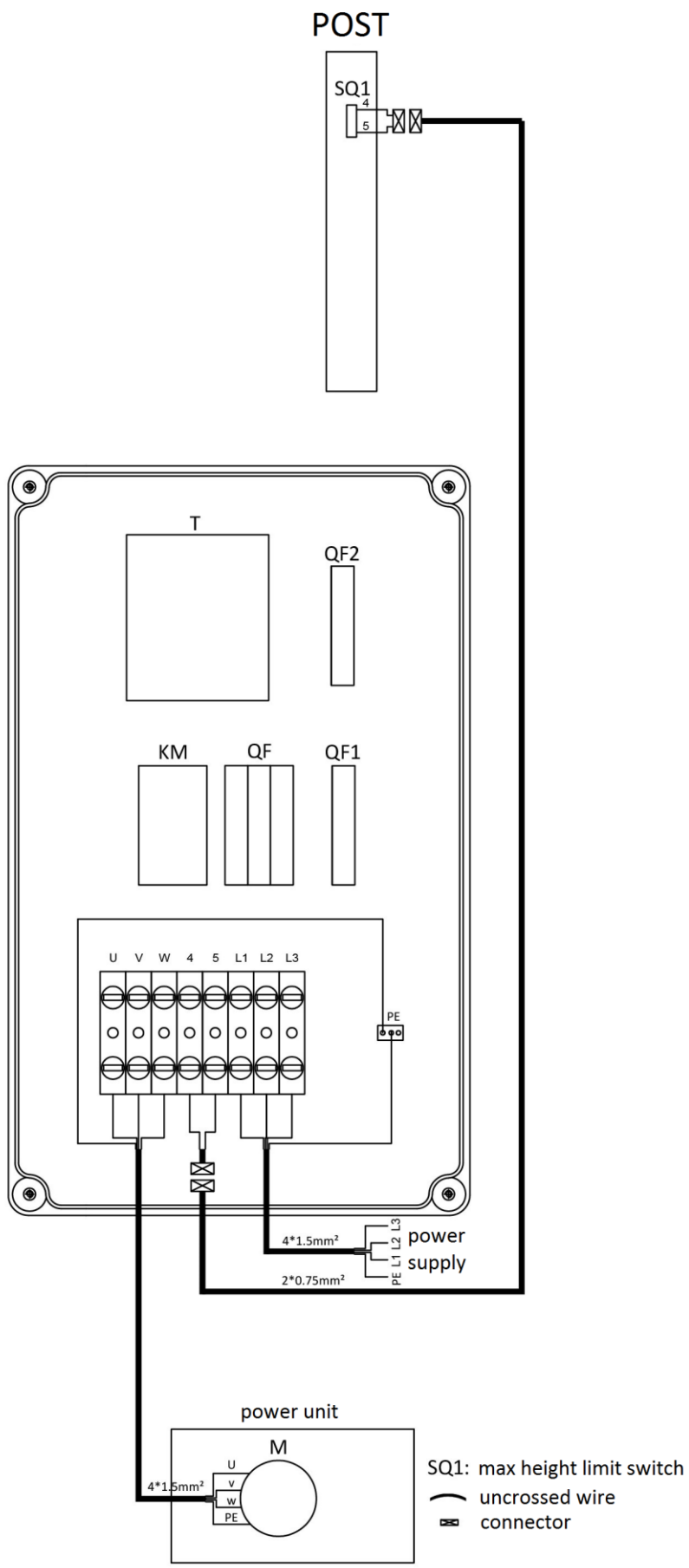
*If users stick to the above maintenance requirements, the lift will always keep a good working condition and its service life could be extended.*

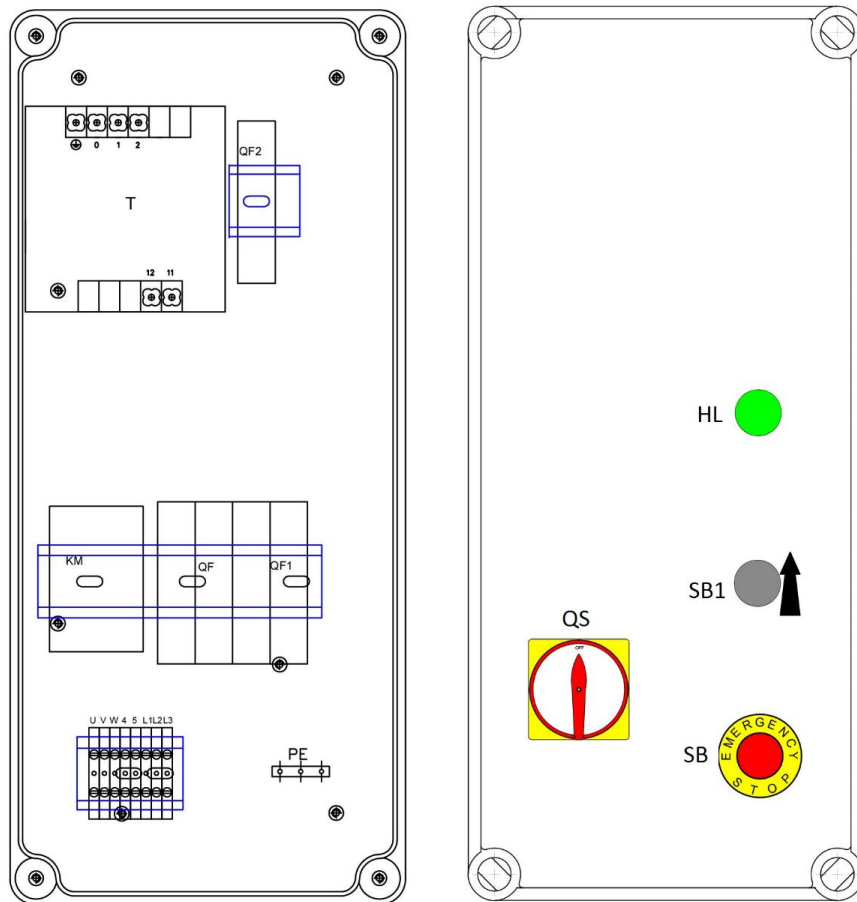
Annex 1, Steel cable connection



Annex 2, Electrical schemes and parts list



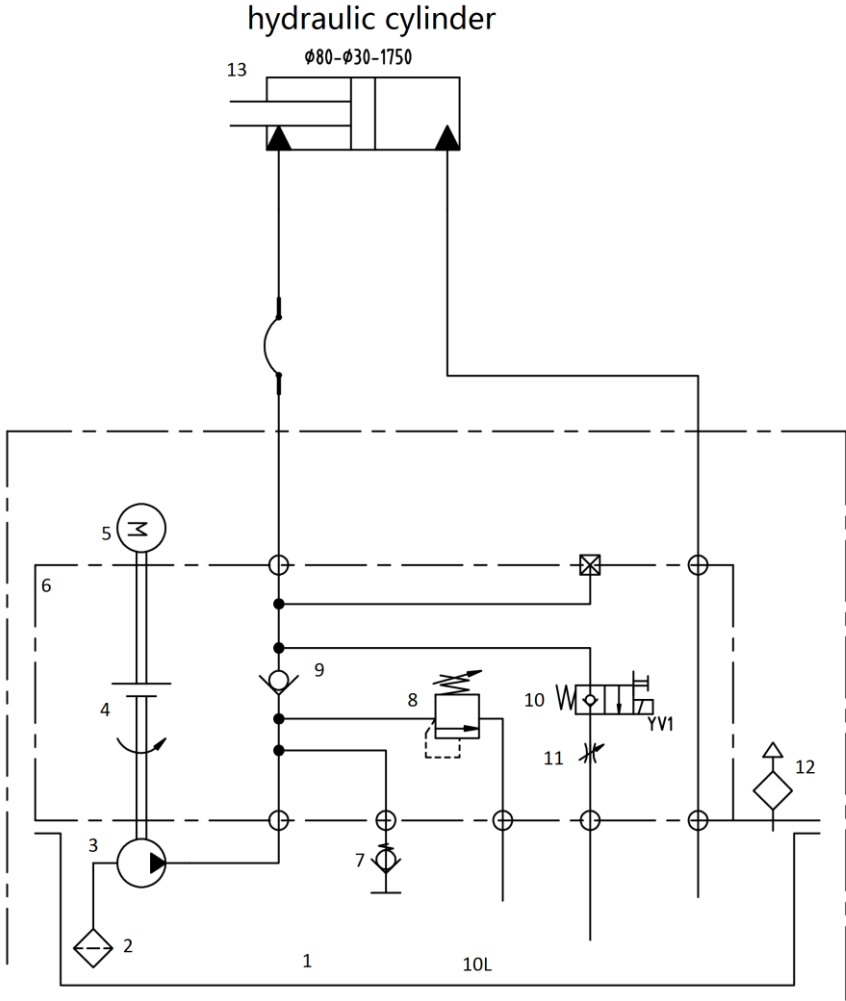




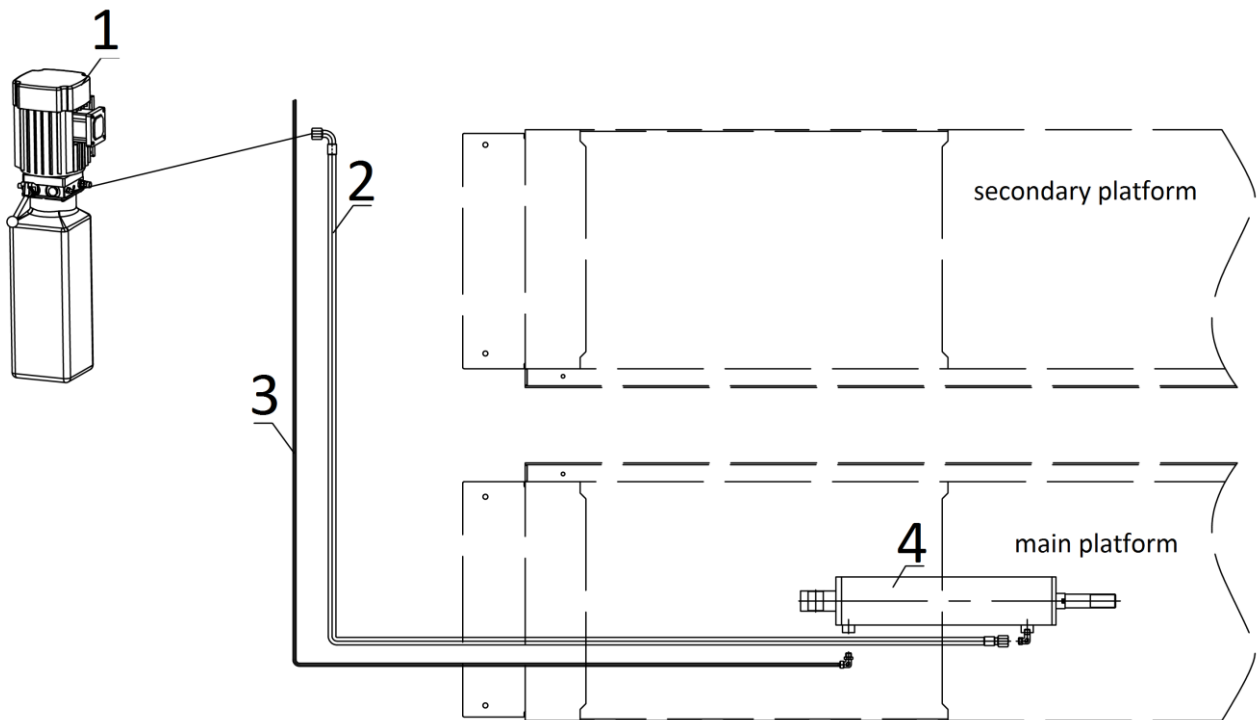
POS.	CODE	Description	Qty
T	320104001	Transformer (220V230V240V-24V)	1
SQ1	320301011	Limit switch 8108	1
QS	320304001	Power switch	1
SB1	320401041	Button	1
SB	320402002	Emergency stop	1
QF	320801001	Circuit breaker (3Ph)	1
	320802001	Circuit breaker (1Ph)	1
QF1	320803001	Circuit breaker	1
QF2	320803003	Circuit breaker	1
KM	320901001	AC contactor(2.2kW)	1
HL	321201001	Power indicator	1



Annex 3, Hydraulic schemes and parts list



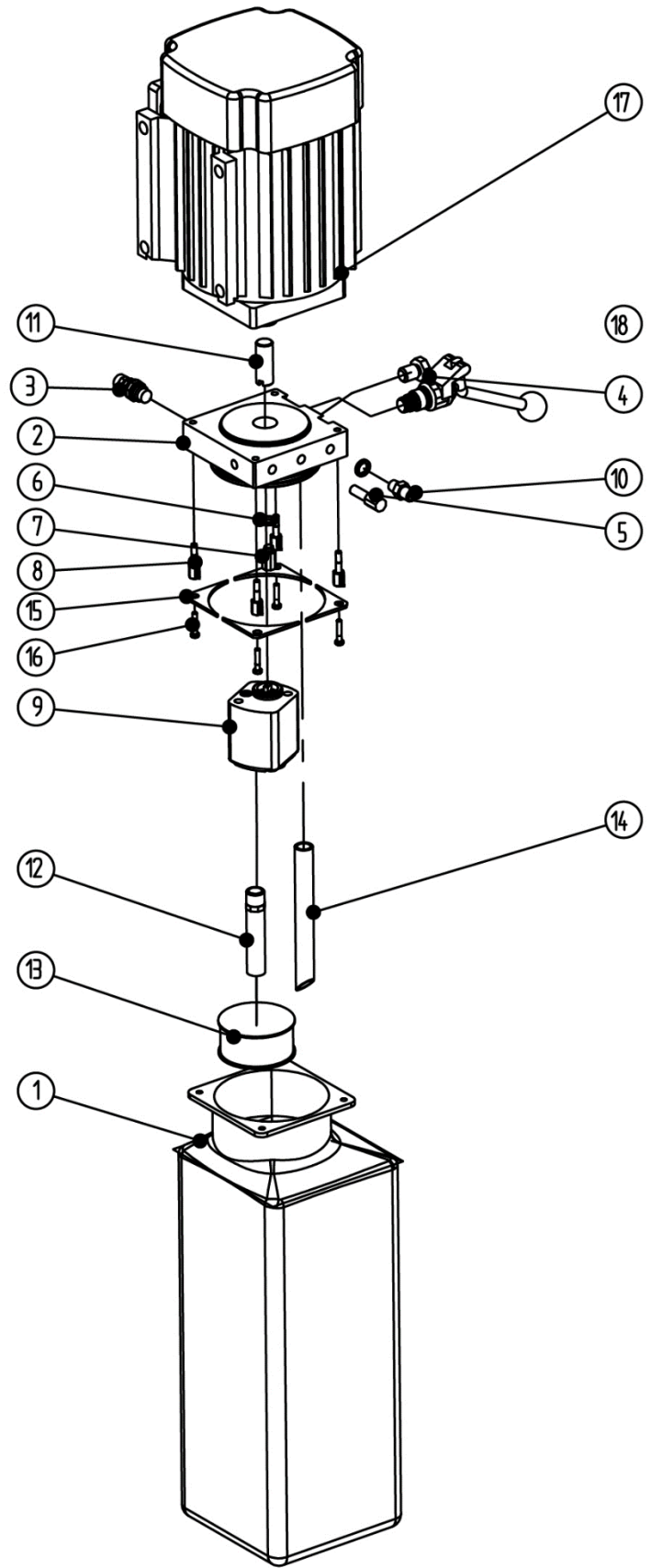
- 1 Oil tank
- 2 Oil sucking filter
- 3 Gear pump
- 4 Coupling
- 5 Motor
- 6 Composite hydraulic block
- 7 Cushion valve
- 8 Over-flow valve
- 9 Single-way valve
- 10 Unloading valve
- 11 Flow-control valve
- 12 Oil tank cover
- 13 Oil cylinder



Pos.	CODE	Description	Specification	Qty	REMARK
1		Power unit	2.2kW or 3.5kW	1	
2	624001864	Rubber oil hose	L=5750	1	48L
2	624001867	Rubber oil hose	L=6150	1	52L
2	624001868	Rubber oil hose	L=7000	1	57L
3		PU hose	L=4250	1	48L
		PU hose	L=4650	1	52L
		PU hose	L=5500	1	57L
4	310102013	90 degree connector with swivel	08N-M14S	1	
5	615018001	Right angle throttle valve	MR30-A24-B16	1	
6	615027005	5T oil cylinder	5T-6435B-A3-B19	1	

### Seal Rings

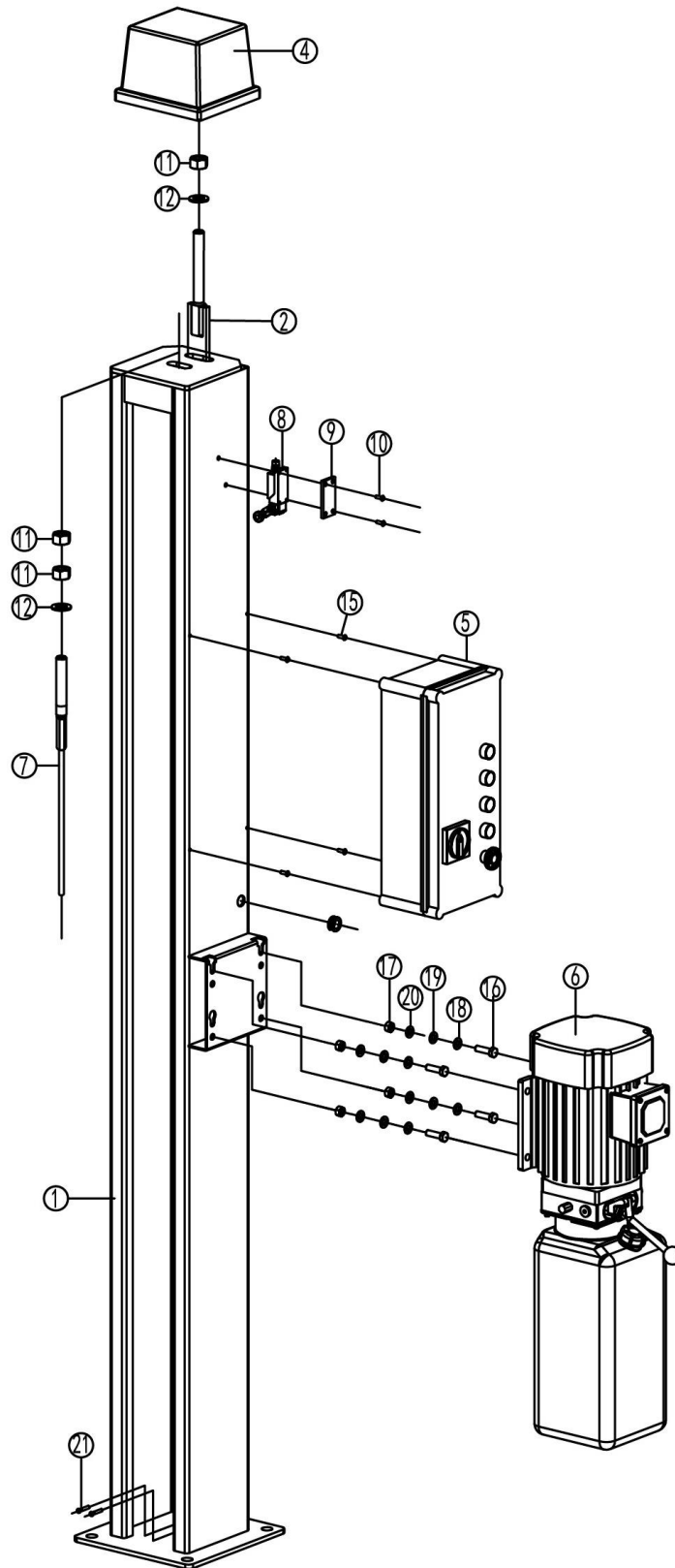
Cylinder Code	Seal ring type	Seal ring code	Seal ring specification	Qty
615027005	Type Y seal ring	207102008	B7-80*65*9	1
	Type Y seal ring	207102019	B7-80*70*6	1
	Guiding ring	207106024	80*76*10	2
	Type Y seal ring	207102010	BS30*40*6	2
	Guiding ring	207106020	30*34*10	2
	Dust proof ring	207105011	DHS30 (30*38*5/6.5)	1



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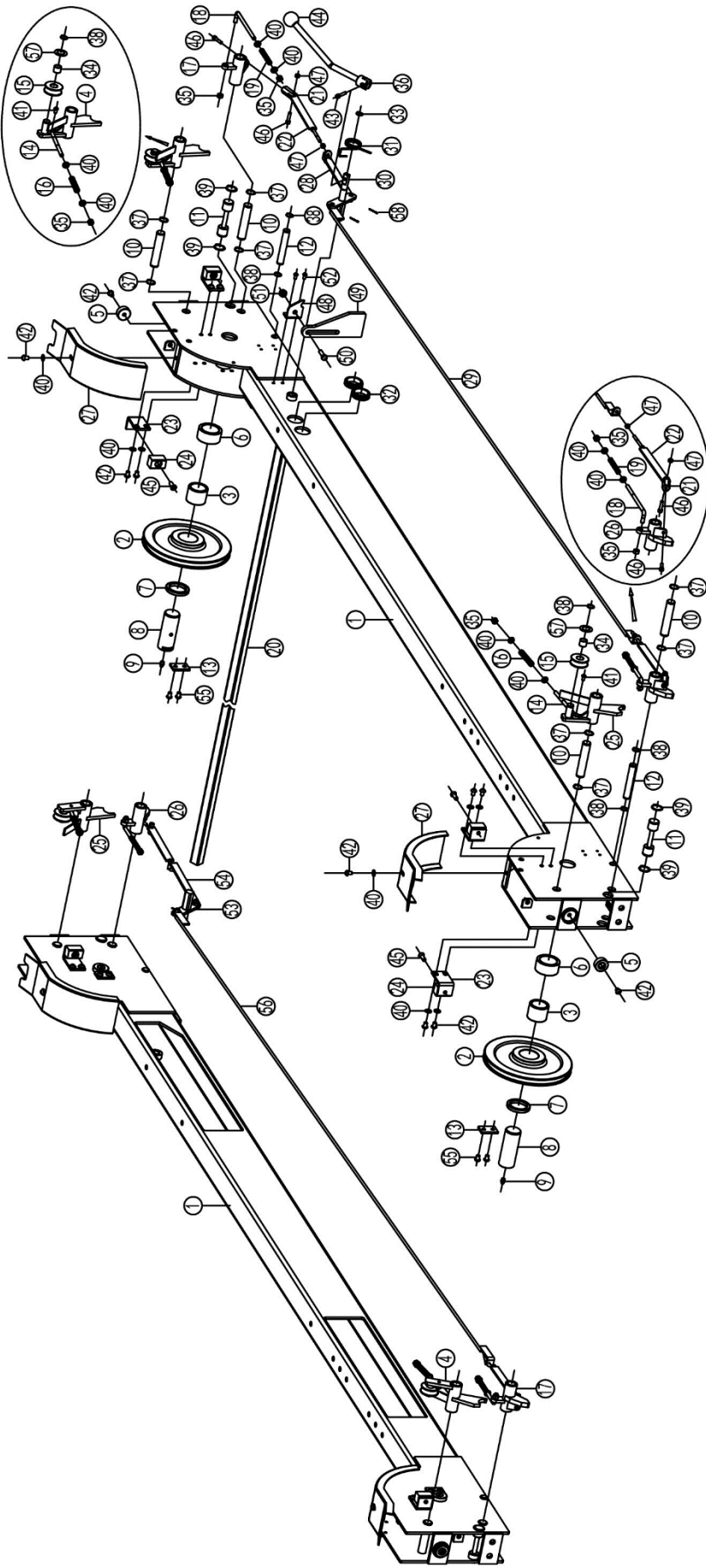
Pos.	CODE	Description	Specification	Qty
1	330405001	Oil tank	10L	1
2	330101004	Composite hydraulic block	YF-2	1
3	330304001	Overflow valve	DYF-C	1
4	330302001	Single way valve	DYF-C	1
5	330305002	Throttle valve	TC-VF	1
6	207103019	Composite seal ring	M14	2
7	330301001	Cushion valve	HZYF-C1	1
8	202109064	Hex socket cylinder head screw	M6*30	4
9	330201005	Gear pump (2.2kW,1PH)	CBK-F220/CBK-2.1F	1
10	310101003	Straight connector	M14*1.5-G1/4	1
11	330404001	Coupling	YL-A	1
12	330401005	Oil sucking tube	XYGN-L293	1
13	330403001	Filter	YG-C	1
14	330402001	Oil back tube	YH-D	1
15	410010091	Reinforced plate for oil tank	6254E-A4-B12(6254A-A5-B12 50*50*4)	4
16	203101001	Hex flange screw	M5*25	4
17	320201297	Motor (1Ph)	208-240V 60HZ 2.2KW	1
18	330303001	Manual unloading valve	XYF-C	1

Annex 4, Exploded drawings and parts list



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Pos.	CODE	Description	Specification	QTY	NOTE
1	614030001B	Power side post	6435M-A1-B1	1	
1	614027091B	Secondary post	6435B-A1-B1-B	3	
2	612027001B	Safety rod	6435B-A1-B2	4	
4	420270090	Post cap	6435B-A1-B11	4	
5		Control unit	220V/230V/240V/380V/400V/415V	1	
6		Power unit	2.2kW	1	
7	615027109	Steel cable	L=12940	2	48L:2850
7	615027038B	Steel cable	L=13050	2	48L: 3000
7	615027105	Steel cable	L=13340	2	52L:2850
7	615027037B	Steel cable	L=13450	2	52L:3000
7	615027106	Steel cable	L=13840	2	57L:2850
7	615027036	Steel cable	L=13980	2	57L:3000
8	320301009	Limit switch	TZ-8104	2	
9	410270221	Padding plate of limit switch	6435B-A1-B12	2	
10	202110009	Hex socket button head screw	M5*16	4	
11	203101012	Hex nut	M20	8	
12	204101011	Flat washer	M20	4	
15	202101020	Hex socket cap head screw	M5*8	4	
16	201103004	Hex head full swivel screw	M10*35	4	
17	203101006	Hex nut	M10	4	
18	204101006	Flat washer	M10	4	
19	204201005	Spring washer	M10	4	
20	420040010	Anti- vibration pad	6254E-A23	4	
21	202110005	Hex socket button head screw	M8*20	8	



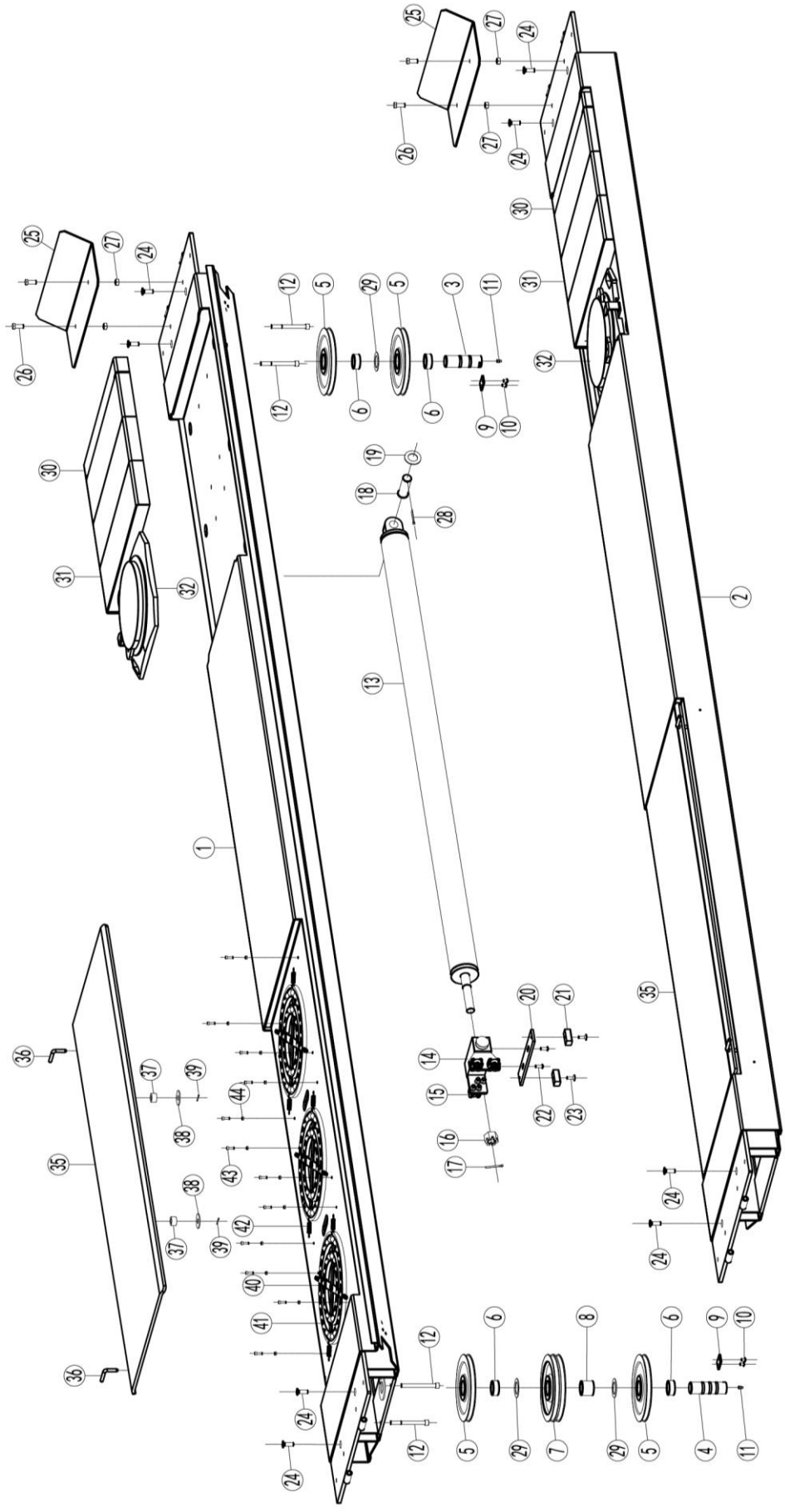
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Pos.	CODE	Description	Specification	QTY	NOTE
1	614030002B	Power side crossbeam	6435M-A2-B1	1	2850
1	614030007	Power side crossbeam	6435M-A2-B1	1	3000
1	614030005B	The secondary crossbeam	6435M-A7-B1	1	2850
1	614030008	The secondary crossbeam	6435M-A7-B1	1	3000
2	410274120	Pulley A	410274120	4	
3	205101070	Lubrication bearing	40*50*40	4	
4	612027002	Safety block A	6435B-A3-B6	2	
5	420270020	Side sliding block	6435B-A3-B21	4	
6	420270050	Spacer A	6435B-A3-B1	4	
7	420270060	Spacer B	6435B-A3-B2	4	
8	410270021	Pulley shaft A	6435B-A3-B4	4	
9	208106001	Straight pressed oil cup	M8*1	4	
10	410270071	Shaft I	6435B-A3-B10	8	
11	410270081B	Shaft II	6435B-A3-B11	4	
12	410270091	Shaft III	6435B-A3-B12	4	
13	410270101B	Shaft block	6435B-A3-B13	4	
14	612027003	Adjustable rod B	6435B-A3-B9	4	
15	410270031B	Small pulley	6435B-A3-B5	4	
16	410270630	Spring	6435B-A3-B22	4	
17	410270051D	Safety block B1	6435B-A3-B7	2	
18	410270061	Adjustable rod A	6435B-A3-B8	4	
19	410300011	Spring	6435M-A3-B32	4	
20	410300023	Manual connection bar	6435M-A29	1	48L
20	410300033	Manual connection bar	6435M-A29	1	52L
20	410300413	Manual connection bar	6435M-A29	1	57L
21	410270601	Adjustable post	6435B-A3-B33	4	
22	614030011	Release plate B	6435M-A2-B3	4	
23	410270011	Slider holder	6435B-A3-19	8	
24	420270010	Slider	6435B-A3-20	8	
25	612027004	Safety block A2	6435B-A3-B16	2	
26	410270121D	Safety block B2	6435B-A3-B17	2	
27	420270040	Protection cover	6435B-A3-23	4	
28	614030009	Release plate A	6435M-A2-B2	1	
29	614030014B	Release plate C	6435M-A2-B4	1	2850
29	614030017B	Release plate C	6435M-A2-B4	1	3000
30	612030002	Main swing rod	6435M-A23	1	
31	410320221	Torsional spring (right)	6435P-A10-B13	1	
32	420040030	Oil hose protective ring	6254E-A21	2	



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Pos.	CODE	Description	Specification	QTY	NOTE
33	204301005	Circlip	M16	1	
34	205101001	Lubrication bearing	1615	4	
35	203103006	Hex nut	M8	12	
36	612030003	Handle	6435M-A26	1	
37	204301007	Circlip	M20	16	
38	204301005	Circlip	M16	12	
39	204301009	Circlip	M25(23.2)	8	
40	204101005	Flat washer	M8	36	
41	202103012	Cross socket flat head screw	M6*16	4	
42	202110004	Hex socket button head screw	M8*12	32	
43	202109023	Hex socket cylinder head screw	M6*30	1	
44	208105003B	Type B Handle ball	D32	8	
45	202111007	Hex socket flat head screw	M8*20	8	
46	202109022	Hex socket cylinder head screw	M6*25	6	
47	203101004	Hex nut M6	M6	12	
48	410300021	Manual fixation plate	6435M-A27	1	
49	410300031B	Manual reset plate	6435M-A28	1	
50	201102019	Hex head full swivel screw	M10*30	1	
51	203101006	Hex nut	M10	1	
52	202101029	Cross socket cap head screw	M6*12	2	
53	612030001	The secondary swing rod	6435M-A24	1	
54	614030010	Release plate A	6435M-A2-B2	1	
55	202111004	Hex socket flat head screw	M8*12	8	
56	614030012B	Release plate D	6435M-A7-B3	1	2850
56	614030016B	Release plate D	6435M-A7-B3	1	3000
57	204101009	Flat washer	M16	4	

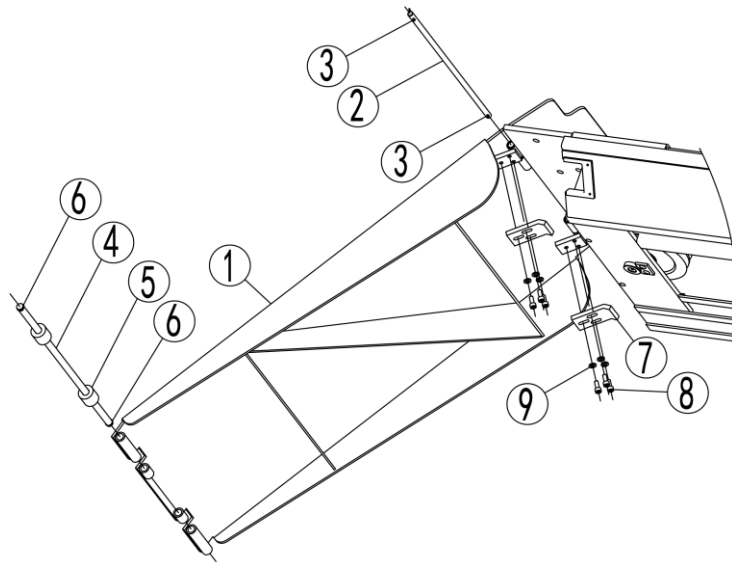


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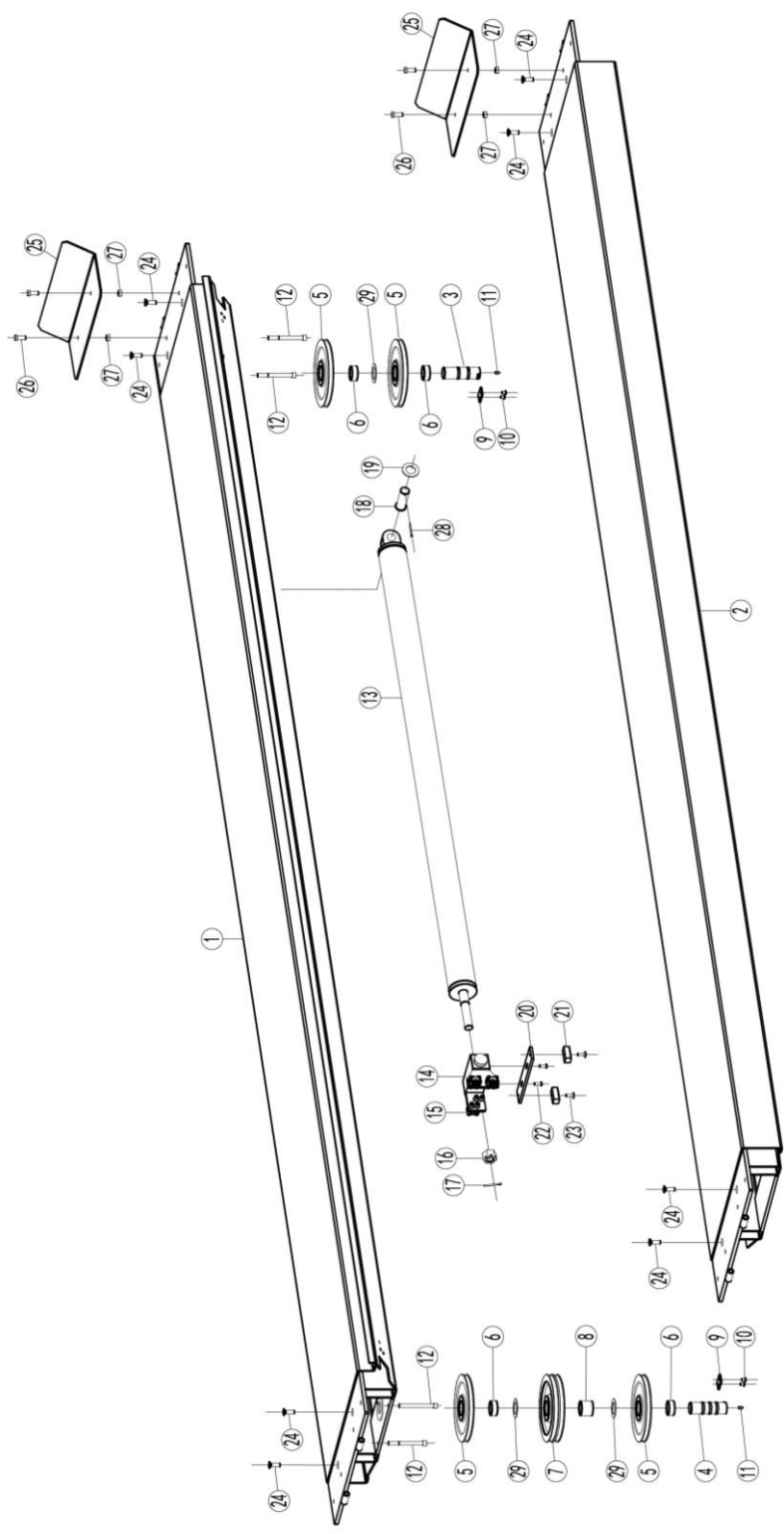
Pos.	CODE	Description	Specification	QTY	NOTE
1	614027521B	Platform A	6435B-A5-B1-57L--V2	1	57L.50T
1	614027523B	Platform A	6435B-A5-B1-52L--V2	1	52L.50T
1	614027525B	Platform A	6435B-A5-B1-48L--V2	1	48L.50T
1	614027527B	Platform A	6435B-A4-B1-52L--V2	1	52L.40T
1	614027529B	Platform A	6435B-A4-B1-48L--V2	1	48L.40T
2	614027522B	Platform B	6435B-A5-B2-57L--V2	1	57L.50T
2	614027524B	Platform B	6435B-A5-B2-52L--V2	1	52L.50T
2	614027526B	Platform B	6435B-A5-B2-48L--V2	1	48L.50T
2	614027528B	Platform B	6435B-A4-B2-52L--V2	1	52L.40T
2	614027530B	Platform B	6435B-A4-B2-52L--V2	1	48L.40T
3	410292411	Pulley shaft B	6435B-A4-B17	1	
4	410292421	Pulley shaft C	6435B-A4-B18	1	
5	410274130	Pulley B	410274130	4	
6	205101069B	Lubrication bearing	6435B-A4-B13	4	
7	410274140	Pulley C	410274140	1	
8	205101070	Lubrication bearing	40*50*40	1	
9	410270101B	Shaft retain block	6435B-A3-B13	2	
10	202110004	Hex socket button head screw	M8*12	4	
11	208106001	Straight pressed oil cup	M8*1	2	
12	202109060	Hex socket button head screw	M12*145	4	
13	615027005	5T oil cylinder	5T-6435B-A3-B19	1	
14	614027033B	Steel cable connection block	6435B-A4-B7	1	
15	208101001	Steel cable clip	10-6KTH L=57mm	4	
16		Open slot nut	M27*2	1	
17		Cotter pin	φ5×50	1	
18	410270281	Cylinder shaft II	6435B-A4-B26B	1	
19	204101006	Flat washer	M10	1	
20	410292433	Oil cylinder guiding plate	6435B-A4-B24	1	
21	420270270	Guiding slider	6435B-A4-B27	2	
22	202110005	Hex socket button head screw	M8*20	3	
23	202111007	Hex socket flat head screw	M8*20	2	
24	202111015	Hex socket flat head screw	M12*25	8	
25	410274513	Front wheel stop plate	6435B-A4-B10	2	
26	201102027	Hex head full swivel screw	M12*30	4	
27	203101007	Hex nut	M12	4	
28	206201007	Cotter pin (stainless steel )	M4*30	1	
29	410278751	Flat washer	φ40	3	
30	614027503	Portable box III-70mm	6435B-A4-B45	2	

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Pos.	CODE	Description	Specification	QTY	NOTE
31	614027501	Portable box l-190mm	6435B-A4-B43	6	
32	615027049	Turntable ( optional )	400*400	2	
35	614027533	Slip plate	6435B-A5-B3-57L	2	57L
35	614027534	Slip plate	6435B-A4-B3-52L	2	52L
35	614027535	Slip plate	6435B-A4-B3-48L	2	48L
36	410250221B	Bolt	6604B-A16	4	
37	420210030	Nylon sheath	6603B-A4-B7-C4	4	
38	410250011	Washer	6604B-A1-B5 $\varnothing$ 40 L=7	4	
39	206201011	Cotter pin (stainless steel )	M4*50	4	
40	420270100B	Ball holder	6435B-A4-B20	6	
41	420270110	Ball	6435B-A4-B21	240	
42	410274481	Pull spring	6435B-A4-B31	24	
43	202109020	Hex socket cylinder head screw	M6*15	24	
44	203101004	Hex nut	M6	24	



Pos.	CODE	Description	Specification	Qty
1	614027255C	Ramp	6435B-A4-B5-	2
2	410270091	Shaft III	6435B-A3-B12	2
3	206201001	Cotter pin	M2.5x30	4
4	410270201	Roll wheel shaft	6435B-A4-B5-C8	2
5	420270250	Roll wheel	6435BWF-C08-9	4
6	204301004	Circlip (type B)	M15	4
7	410274313	Adjustable plate	410274313	4
8	202109029	Hex socket cylinder head screw	M8x20	12
9	204101005	Flat washer	M8	12



Pos.	CODE	Description	Specification	QTY	NOTE
1	614027551	Platform A	6435S-A5-B1-57L--V2	1	57L.50T
1	614027553	Platform A	6435S-A5-B1-52L--V2	1	52L.50T
1	614027555	Platform A	6435S-A5-B1-48L--V2	1	48L.50T
1	614027557	Platform A	6435S-A4-B1-52L--V2	1	52L.40T

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Pos.	CODE	Description	Specification	QTY	NOTE
1	614027559	Platform A	6435S-A4-B1-48L--V2	1	48L.40T
2	614027552	Platform B	6435S-A5-B2-57L--V2	1	57L.50T
2	614027554	Platform B	6435S-A5-B2-52L--V2	1	52L.50T
2	614027556	Platform B	6435S-A5-B2-48L--V2	1	48L.50T
2	614027558	Platform B	6435S-A4-B2-52L--V2	1	52L.40T
2	614027560	Platform B	6435S-A4-B2-52L--V2	1	48L.40T
3	410292411	Pulley shaft B	6435B-A4-B17	1	
4	410292421	Pulley shaft C	6435B-A4-B18	1	
5	410274130	Pulley B	410274130	4	
6	205101069B	Lubrication bearing	40*50*23	4	
7	410274140	Pulley C	410274140	1	
8	205101070	Lubrication bearing	40*50*40	1	
9	410270101B	Shaft retain block	6435B-A3-B13	2	
10	202110004	Hex socket button head screw	M8*12	4	
11	208106001	Straight pressed oil cup	M8*1	2	
12	202109060	Hex socket button head screw	M12*145	4	
13	615027005	5T oil cylinder	5T-6435B-A3-B19	1	
14	614027033B	Steel cable connection block	6435B-A4-B7	1	
15	208101001	Steel cable clip	10-6KTH L=57mm	4	
16		Open slot nut	M27*2	1	
17		Cotter pin	φ5×50	1	
18	410270281	Cylinder shaft II	6435B-A4-B26B	1	
19	204101015	Flat washer	M30	1	
20	410292433	Oil cylinder guiding plate	6435B-A4-B24	1	
21	420270270	Guiding slider	6435B-A4-B23	2	
22	202110005	Hex socket button head screw	M8x20	3	
23	202111007	Hex socket flat head screw	M8x20	2	
24	202111015	Hex socket flat head screw	M12x25	8	
25	410274513	Front wheel stop plate	6435B-A4-B10	2	
26	201102027	Hex head full swivel screw	M12x30	4	
27	203101007	Hex nut	M12	4	
28	206201011	Cotter pin (stainless steel )	M4x50	1	
29	410278751	Flat washer	φ40	3	