

**Model No. EE-6215E**

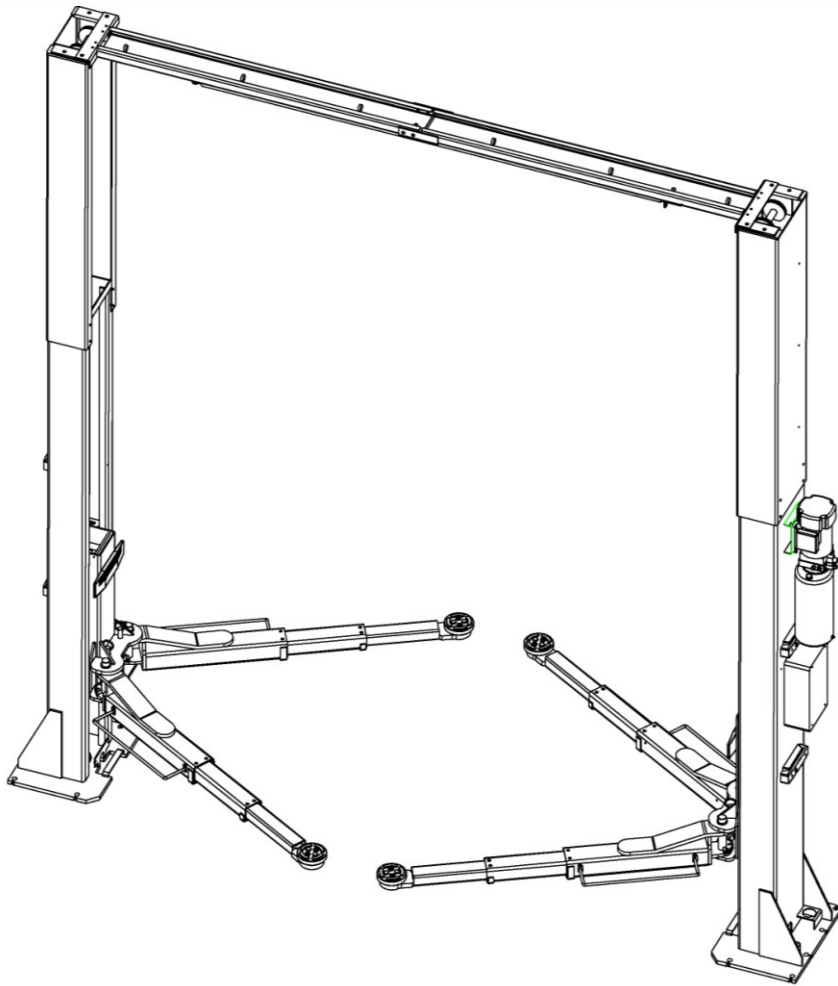
Clear Floor Two Post Lift,  
Electrical Release  
Lifting Capacity 5000KG

**Installation, Operation  
and Parts Manual**



# EverLift

VEHICLE LIFT SPECIALIST



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

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## IMPORTANT SAFETY INSTRUCTIONS

### 1.1 Important notices

EverLift will offer one-year's quality warranty for the whole machine, during which any quality problem will be properly solved to the user's satisfaction. However, we will not take any responsibility for whatever bad consequence resulted from improper installation and operation, overload running or unqualified ground condition.

This 2-posts lift is specially designed for lifting motor vehicles that weighs within its outmost lifting capacity. Users are not allowed to use it for any other purposes. Otherwise, we, as well as our sales agency, will not bear any responsibility for accidents or damages of the lift. Make sure to pay careful attention to the label of the lifting capacity attached on the lift and never try to lift cars with its weight beyond.

Read this manual carefully before operating the machine so as to avoid economic loss or personnel casualty incurred by wrong operation.

Without our professional advice, users are not permitted to make any modification to the control unit or whatever mechanical unit.

### 1.2 Qualified personnel

1.2.1 Only these qualified staff, who have been properly trained, can operate the lift.

1.2.2 Electrical connection must be done by a competent electrician.

1.2.3 People who are not concerned are not allowed in the lifting area.

### 1.3 Danger notices

1.3.1 Do not install the lift on any asphalt surface.

1.3.2 Read and understand all safety warnings before operating the lift.

1.3.3 The lift, if is not specially designed upon customer's request, is not fit for outdoor use.

1.3.4 Keep hands and feet away from any moving parts. Keep feet clear of the lift when lowering.

1.3.5 Only these qualified people, who have been properly trained, can operate the lift.

1.3.6 Do not wear unfit clothes such as large clothes with flounces, tires, etc, which could be caught by moving parts of the lift.

1.3.7 To prevent evitable incidents, surrounding areas of the lift must be tidy and with nothing unconcerned.

1.3.8 The lift is simply designed to lift the entire body of vehicles, with its maximum weight within the lifting capacity.

1.3.9 Always insure the safety latches are engaged before any attempt to work near or under the vehicle.

1.3.10 Make sure to place the lifting pads to the positions as suggested by vehicle makers and when gradually lift the vehicle to the desired height, operators should be certain that the vehicle will not slant, roll-over or slide in lifting process.

1.3.11 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.

1.3.12 Lower the lift to its lowest position and do remember to cut off the power source when service finishes.

1.3.13 Do not modify any parts of the lift without manufacturer's advice.

1.3.14 If the lift is going to be left unused for a long time, users are required to:

- a. Disconnect the power source;
- b. Empty the oil tank;
- c. Lubricate the moving parts with hydraulic oil.



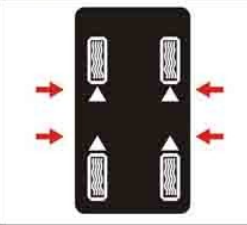
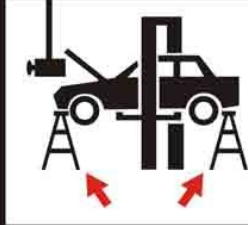

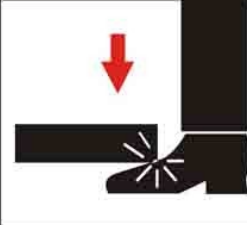
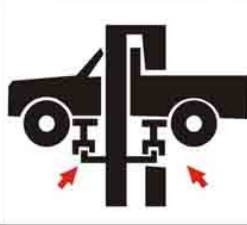
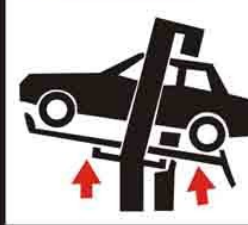


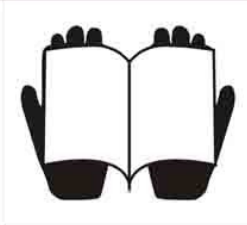


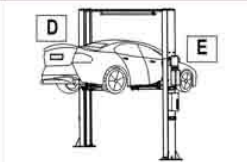
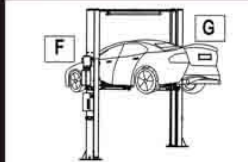
### 1.4 Training

Only these qualified people, who have been properly trained, can operate the lift. We are quite willing to provide professional training for the users when necessary.

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

1.5 Warning signs

All safety warning signs attached on the machine are for the purpose of drawing the user's attention to safety operation. The labels must be kept clean and need to be replaced when they are worn-out or have dropped. Read the explanations of the labels carefully and try to memorize them.

 <p>Remain clear of lift when lowering or lifting vehicle.</p>	 <p>Clear area if vehicle is in danger of falling.</p>	<p><b>CAUTION</b></p>  <p>Lift vehicle at the manufacturer's points</p>	<p><b>CAUTION</b></p>  <p>Always use safety stands when removing/ installing heavy components</p>																																								
 <p>Locate the vehicle with center gravity right between two adapters.</p>	 <p>Keep feet away from adapter while lift lowering.</p>	<p><b>CAUTION</b></p>  <p>Use height extension when necessary to ensure good contact.</p>	<p><b>CAUTION</b></p>  <p>Auxiliary adapters may reduce load capacity.</p>																																								
 <p>Do not override self - closing lift controls</p>	 <p>Do not shake vehicle heavily while on lift.</p>	 <p>Read the manual before installation or operation of the lift</p>	<p><b>WARNING</b></p> <ol style="list-style-type: none"> <li>1. Travelling on the load carrying devices is forbidden.</li> <li>2. After raising a short distance, checked to ensure that it is correctly and safely positioned.</li> <li>3. It is forbidden to climb onto the load or load carrying devices when they are raised.</li> </ol>																																								
<p><b>CAUTION</b></p>  <p>Lift is only allowed to be used by trained operator.</p>	<p><b>CAUTION</b></p>  <p>Only authorized personnel allowed in lift area</p>	<p>Arms must support the rated load weight as the following diagram.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="799 1722 1078 1883">  </div> <div data-bbox="1078 1722 1361 1883">  </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Lifting capacity</th> <th colspan="2">Load distribution</th> </tr> <tr> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr> <td>3.2T</td> <td>1.4±0.1T</td> <td>1.8±0.1T</td> </tr> <tr> <td>3.8T</td> <td>1.7±0.1T</td> <td>2.1±0.1T</td> </tr> <tr> <td>4.0T</td> <td>1.8±0.1T</td> <td>2.2±0.1T</td> </tr> <tr> <td>4.5T</td> <td>2.1±0.1T</td> <td>2.4±0.1T</td> </tr> <tr> <td>5.0T</td> <td>2.3±0.1T</td> <td>2.7±0.1T</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Lifting capacity</th> <th colspan="2">Load distribution</th> </tr> <tr> <th>F</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>3.2T</td> <td>1.8±0.1T</td> <td>1.4±0.1T</td> </tr> <tr> <td>3.8T</td> <td>2.1±0.1T</td> <td>1.7±0.1T</td> </tr> <tr> <td>4.0T</td> <td>2.2±0.1T</td> <td>1.8±0.1T</td> </tr> <tr> <td>4.5T</td> <td>2.4±0.1T</td> <td>2.1±0.1T</td> </tr> <tr> <td>5.0T</td> <td>2.7±0.1T</td> <td>2.3±0.1T</td> </tr> </tbody> </table>		Lifting capacity	Load distribution		D	E	3.2T	1.4±0.1T	1.8±0.1T	3.8T	1.7±0.1T	2.1±0.1T	4.0T	1.8±0.1T	2.2±0.1T	4.5T	2.1±0.1T	2.4±0.1T	5.0T	2.3±0.1T	2.7±0.1T	Lifting capacity	Load distribution		F	G	3.2T	1.8±0.1T	1.4±0.1T	3.8T	2.1±0.1T	1.7±0.1T	4.0T	2.2±0.1T	1.8±0.1T	4.5T	2.4±0.1T	2.1±0.1T	5.0T	2.7±0.1T	2.3±0.1T
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## OVERVIEW OF THE LIFT

### 2.1 General descriptions

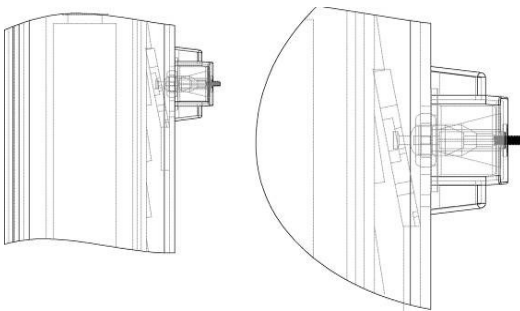
This two- post lift is composed of posts, carriages, lifting arms, cylinders and motor unit, etc.

The lift is driven by an electro-hydraulic system. The gear pump delivers hydraulic oil to oil cylinders and pushes upwards its piston.

The piston drives the chain to raise the carriage and the lifting arms. During lifting process,

the safety teeth will automatically and firmly bite with the safety rod in the posts. Therefore, no slipping will happen in case the hydraulic system breaks down.

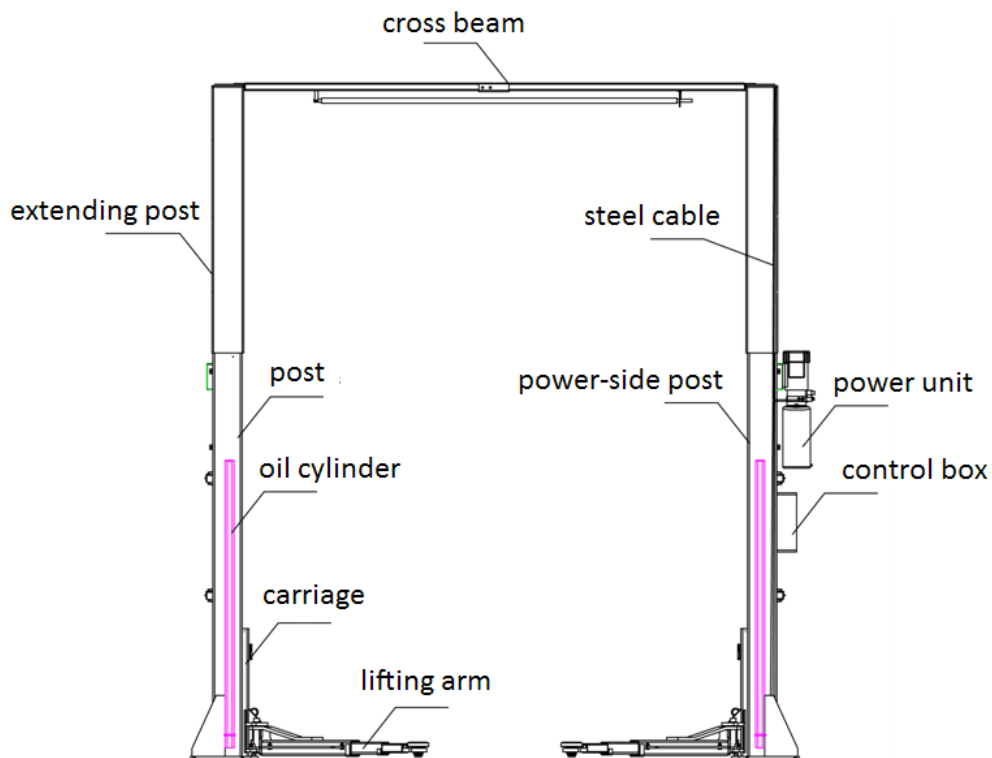
Safety structure:



### 2.2 Technical data

Model	Lifting capacity	Lifting time	Lifting height	Height	Width	Width between posts
EE-6215E	5000kg	50 Sec	1900mm	4451mm	4028mm	3342mm

### 2.3 Construction of the lift



## INSTALLATION INSTRUCTIONS

### 3.1 Preparations before installation

#### 3.1.1 Tools and equipments needed

- Appropriate lifting equipment
- Anti-abrasion hydraulic oil.
- Rotary Hammer Drill with 3/4" drill bit.
- Chalk and tape measure, magnetic plump, 8 metersΦ15 level pipe.
- Sockets and open wrenches, a set of inside hex wrenches, cross and straight screw drivers.
- Hammer, 4pounds, sharp nose pliers, Φ17,Φ19,Φ22 socket spanners.

#### 3.1.2 List for parts checking ---Annex 1 (Packing list)

Unfold the package and check if any parts missed as per Annex 1. 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, EverLift as well as our dealers will not bear any responsibility for this and will charge for any parts subsequently demanded by the buyer.

#### 3.1.3 Ground conditions

The lift should be fixed on a smooth and solid concrete ground with its strength more than 3000psi, tolerance of flatness less than 5mm and minimum thickness of 200mm. In addition, newly built concrete ground must undergo more than 28days' cure and reinforcement.

### 3.2 Precautions for installation

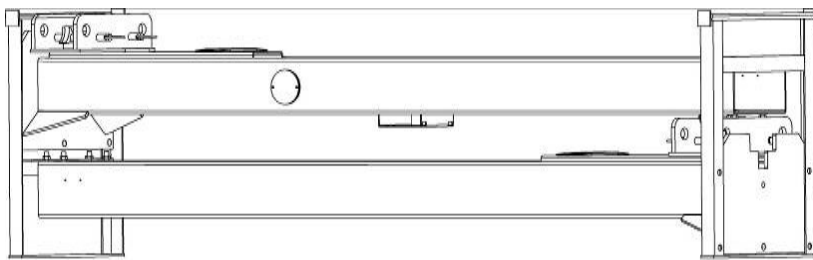
3.2.1 Make sure the two posts stand paralleled and are vertical to the ground. No slanting.

3.2.2 Joints of oil hose and steel cable must be firmly connected in order to avoid the looseness of steel cable and leakage of oil hose.

3.2.3 All bolts should be firmly screwed up.

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

### 3.3 Installation



**Step 1: Remove the packaging, take out the carton for accessories.**

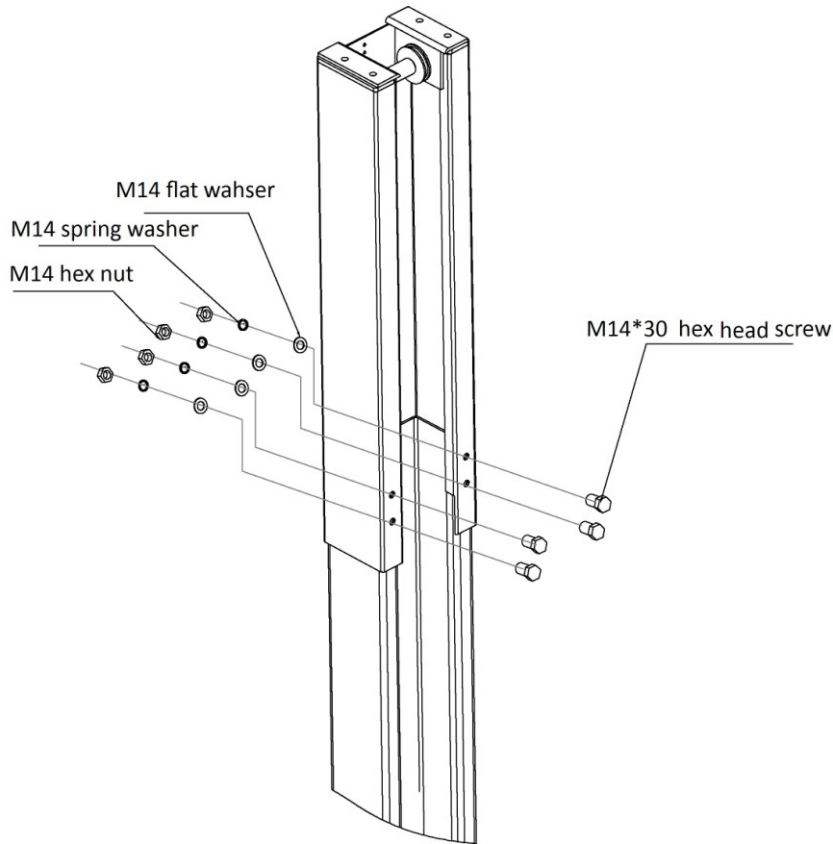
**Step 2: Firstly, put something supporting between the two posts or suspend one of the posts by a crane and then remove the bolts from the packing frame.**

**Attention:** Please pay special attention not to let the post fall down for it may cause casualty or bring damages to the accessories fixed in the post.

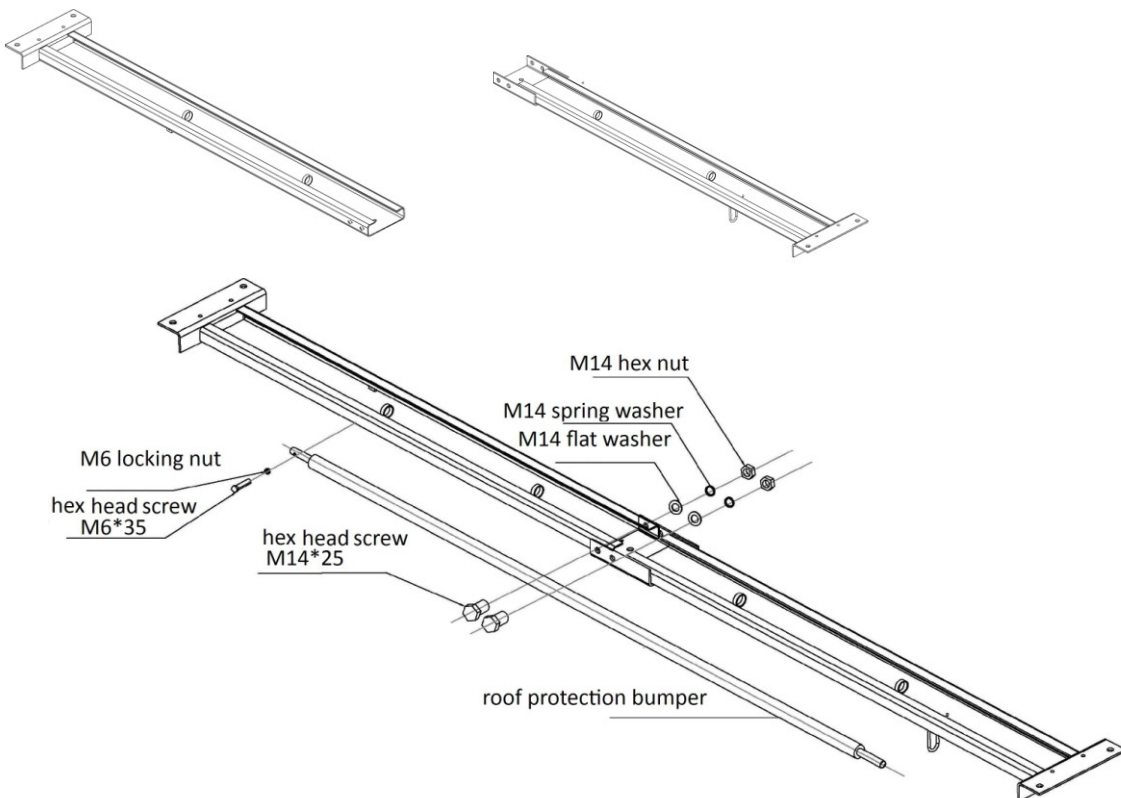
**Step 3: When the first post has been taken away, place something supporter under the second post and then remove the bolts from the packing frame.**

### Step 4: Connect extending posts and cross beams

1. Firstly have the extending post firmly secured on to the body posts. This is only necessary when your lift is ordered with extending posts



2. Connect the beams and fix the roof protection bumper

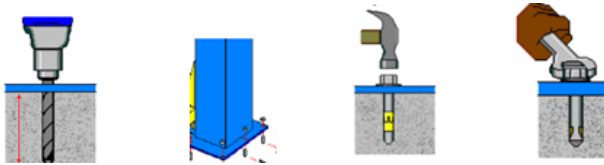
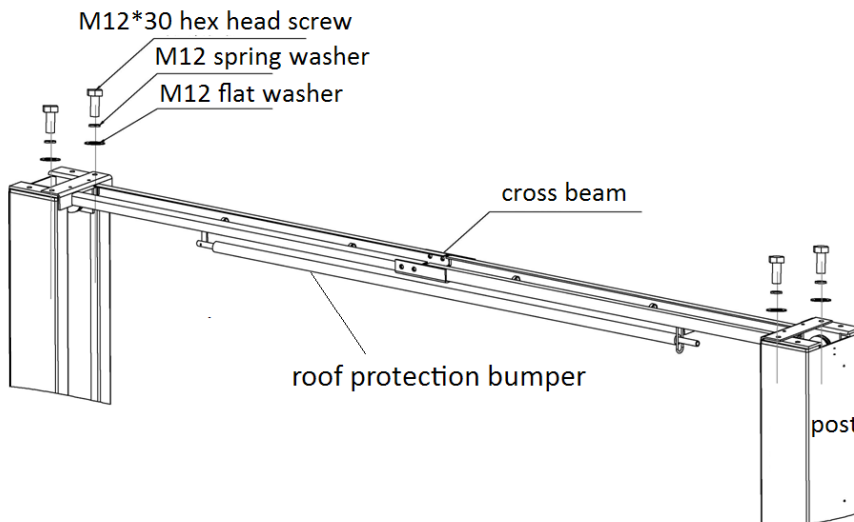


**Step 5: Fix the standing position for the two posts.**

1. Unfold the package and decide on which post the power unit will be mounted.
2. Refer to **Annex 2** and **Annex 3** to ascertain the position for the two posts with chalk and tape measure and draw an outline of the two base plates on the ground.

**Step 6: Erect and secure the post, power side post (the post on which the control box and pump assembly will be mounted) first and then the other post.**

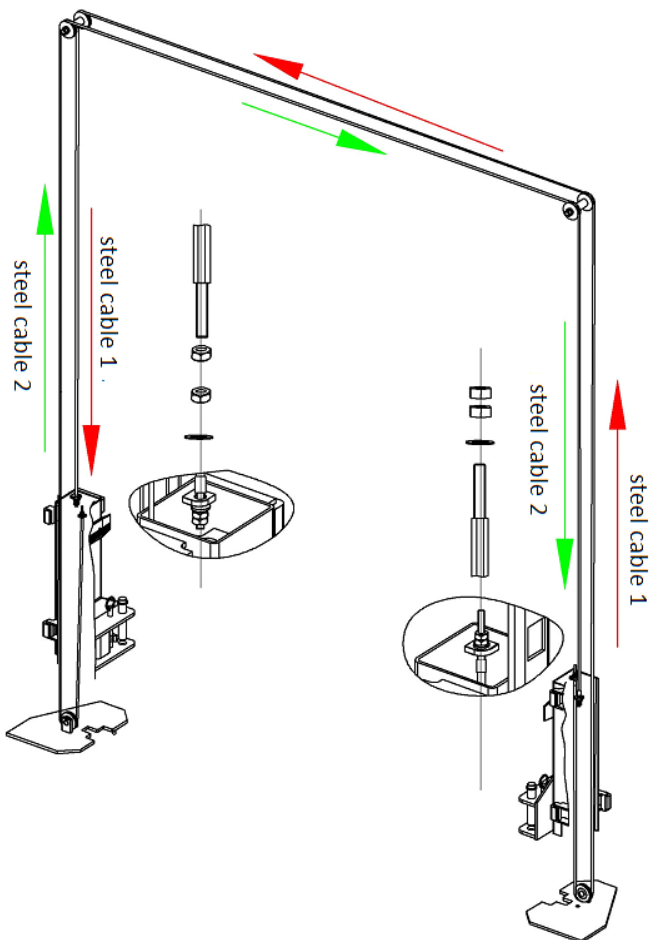
1. Drill anchor holes for expansion bolts on the ground with an electrical drill. Make sure to drill vertically.
2. Remove thoroughly the debris and dust in holes and ascertain that the posts stay right upon the circle previously marked by chalk.
3. In case the base of the post and the surface of the ground were not as smooth as required, insert a piece of washer (with proper thickness) under the base of the post to ensure the smoothness and the verticality of the post. Secure the post with expansion bolts thereafter.
4. Erect and secure the other post similarly as per step, 1, 2, and 3.

**Step7: Install cross beam and hang on the top roof protection bumper.**



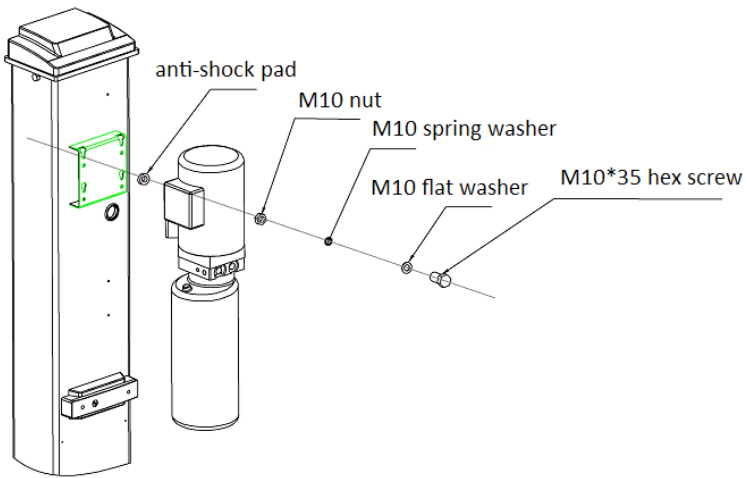
**Step8: Connect steel cables.**

1. Route and fix according to the following diagram of steel cable connection.
2. Raise carriages on both sides approximately 800mm above the ground. Carriages must be on the same height from the floor.
3. Make sure that the mechanical safety locks in each post are fully engaged before attempting to route cables.
4. After the cable being fixed, adjust and make the cable at both sides be with the same tightness which could be judged by the sound emitted during lifting process. Make judge and adjustment after trial running.
5. Grease after being fixed. (It is a must.)



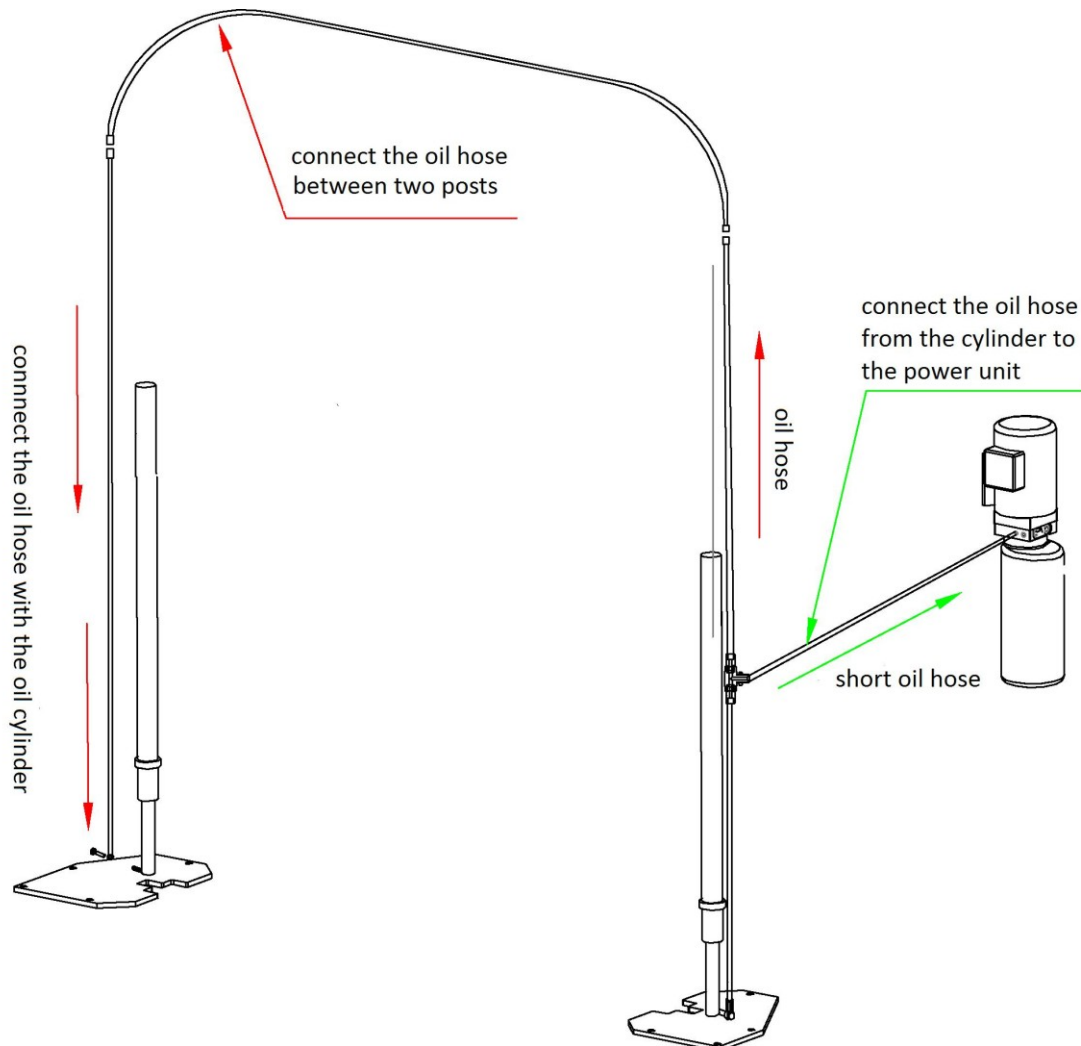
### Step9: Connect oil hoses.

1. Mount the power unit onto the power side post.

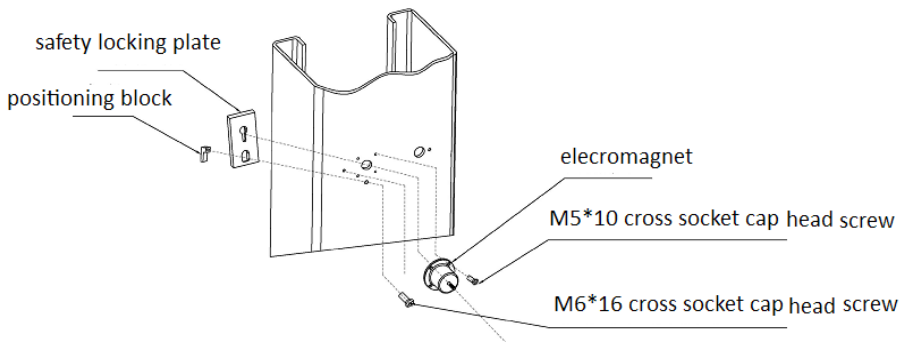


2. Connect oil hoses according to the following diagram.

NOTE: make sure the connectors and hose are clean.



**Step10: Fix the electromagnets.**



safety locking plate

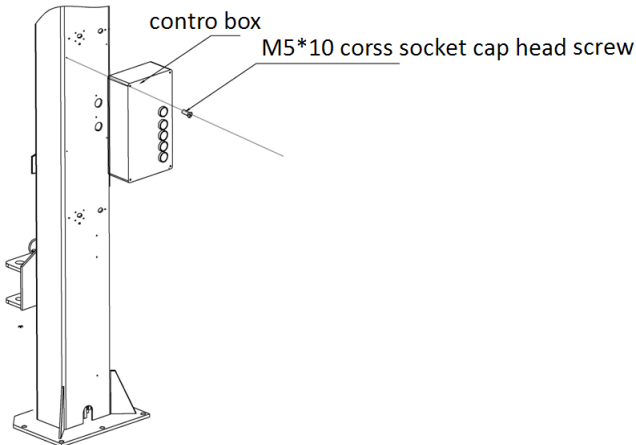


electromagnet

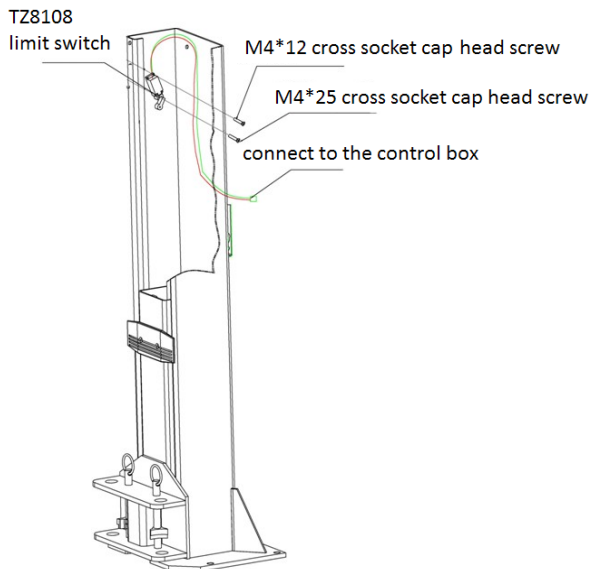
**Step11: Connect wires.**

**Attention: Only licensed electricians are allowed to carry out electrical connection.**

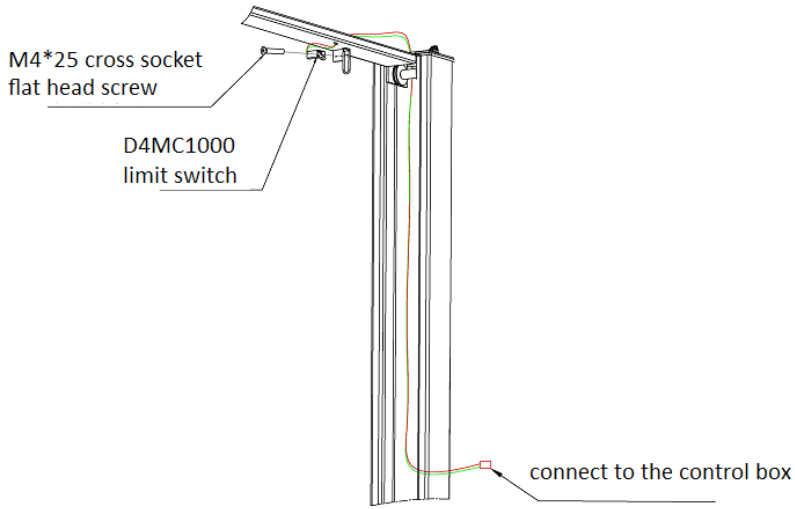
1. Mount the control box on to the power side post.



2. Connect the limit switch fixed inside the power-side post.



3. Connect the limit switch fixed at the cross beam.



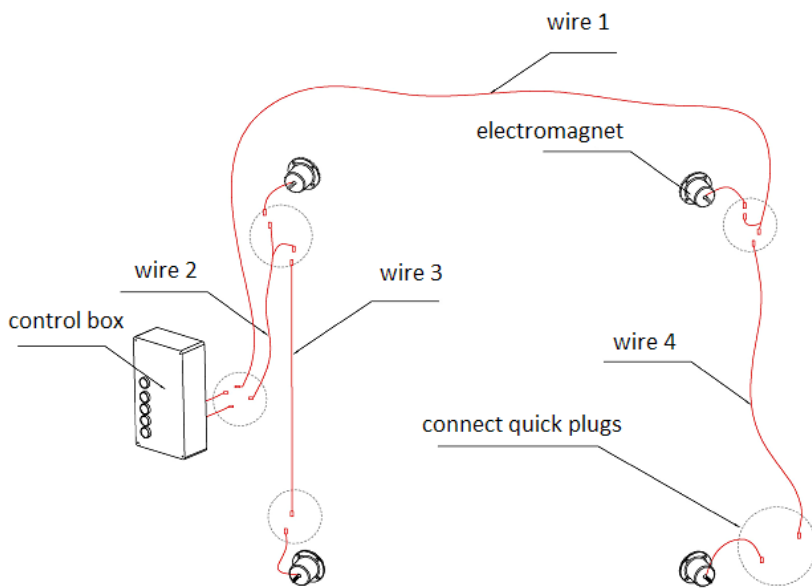
4. Connect wires of electromagnet



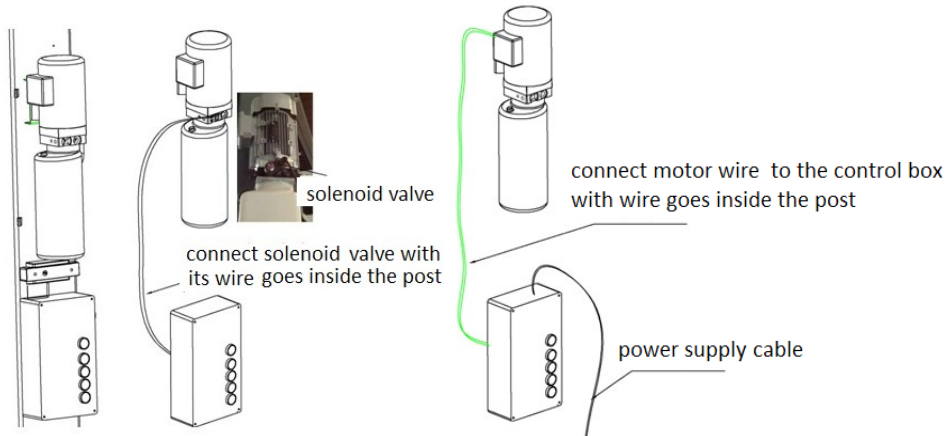
connect quick plugs



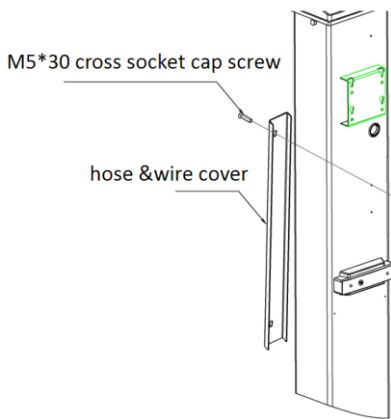
adjustable screw



5. Connect solenoid valve, motor wire and power supply cable .

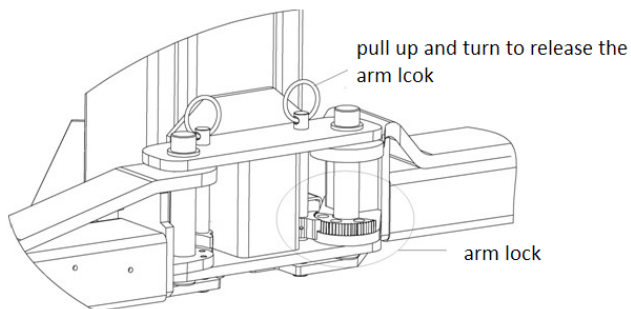
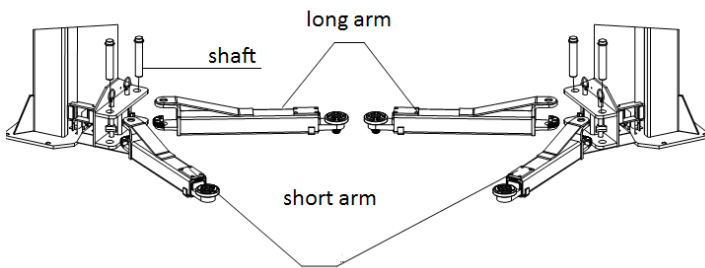


6. Fix wire&hose protection covers.



**Step12: Install lifting arms.**

Connect the lifting arms and the carriage by shafts.



### Step13: Connect power supply and do trial running.

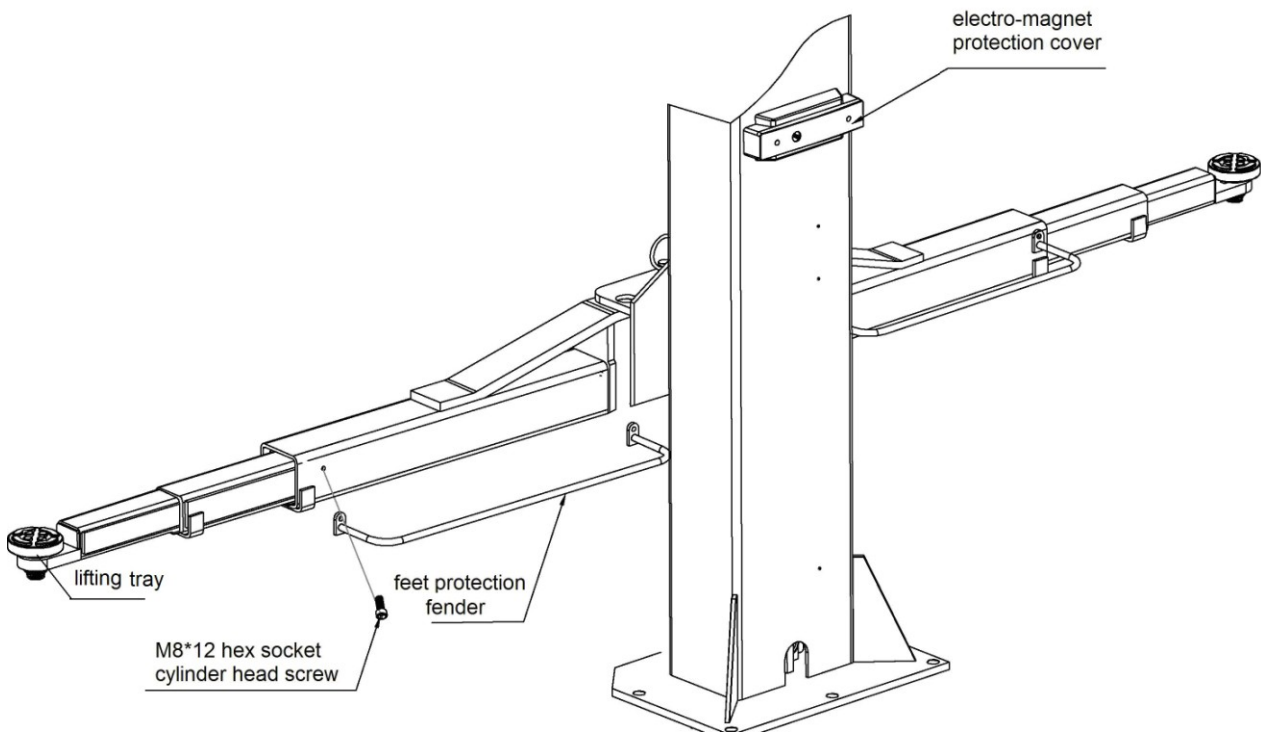
Do refer to the operation instructions in advance and keep in mind that no vehicle left on the lift in the process of trial running.

1. Assure all the connections are in good condition and connect the power supply.
2. Usually it needs 13 liters of hydraulic oil. Firstly, fill about 10Ls into the oil tank to run the lift up and down for 2 or 3 times and then fill into the rest 3Ls. It is suggested to use 32#anti-abrasion hydraulic oil for winter, 46# for summer.
3. Vent air remained the oil cylinder. Screw loose the nut on top of the oil cylinder and slightly press the UP button until oil gets out. Screw the nut tight thereafter.



Vent air remained in the cylinder

### Step14: Fix feet protection fenders, chain protection clothes, electro-magnet protection covers, door-opening protections and lifting trays.



door-opening protection



chain protection cloth

## 3.4 Items to be checked after installation.

S/N	Check items	YES	NO
1	Are the posts vertical to the floor?		
2	Are the two posts paralleled?		
3	Is the oil hose well connected?		
4	Is the steel cable well connected?		
5	Are all lifting arms well fixed?		
6	Are electrical connections right?		
7	Are the rest joints firmly screwed?		
8	Are all items need lubricating added with grease?		

### OPERATION INSTRUCTIONS

## 4.1 Precautions

4.1.1 Check all the joints of oil hose. Only when there is no leakage, the lift can start work.

4.1.2 The lift, if its safety device malfunctions, shall not be used.

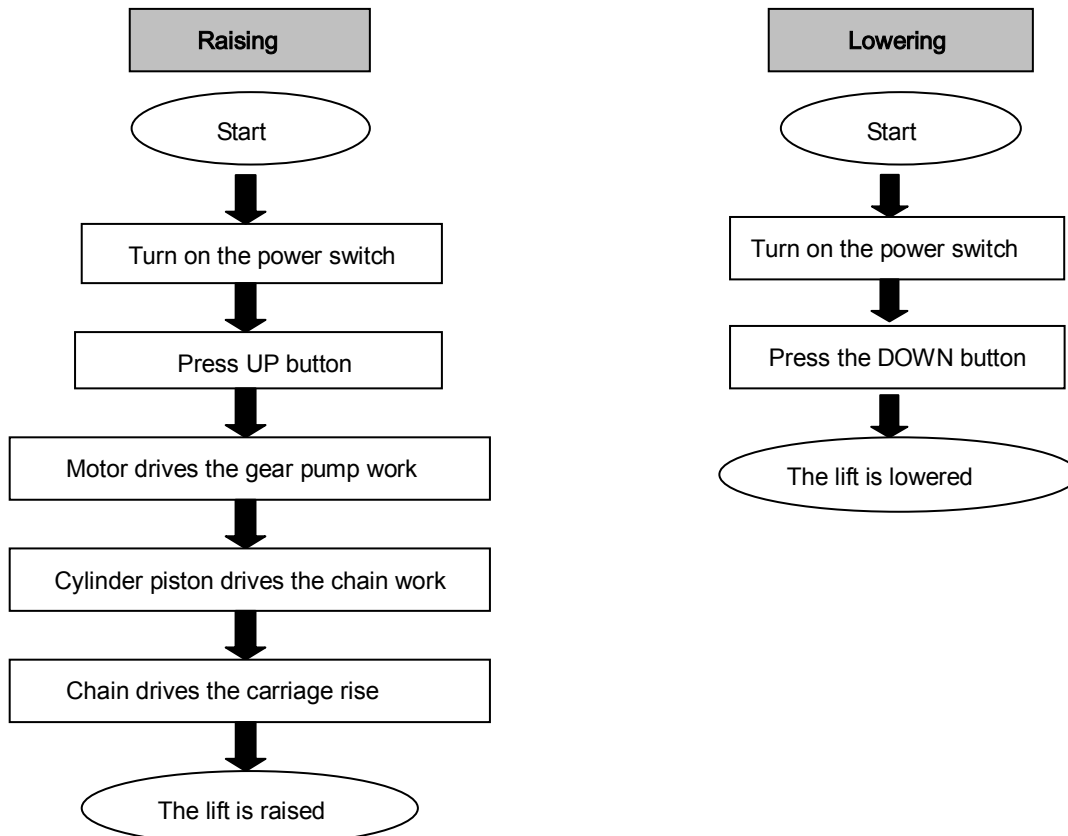
4.1.3 The machine shall not lift or lower an automobile if its center of gravity is not positioned midway of the lifting arms. Otherwise, the EverLift as well as our dealers will not bear any responsibility for any consequence resulted thereby.

4.1.4 Operators and other personnel concerned should stand in a safety area during lifting and lowering process.

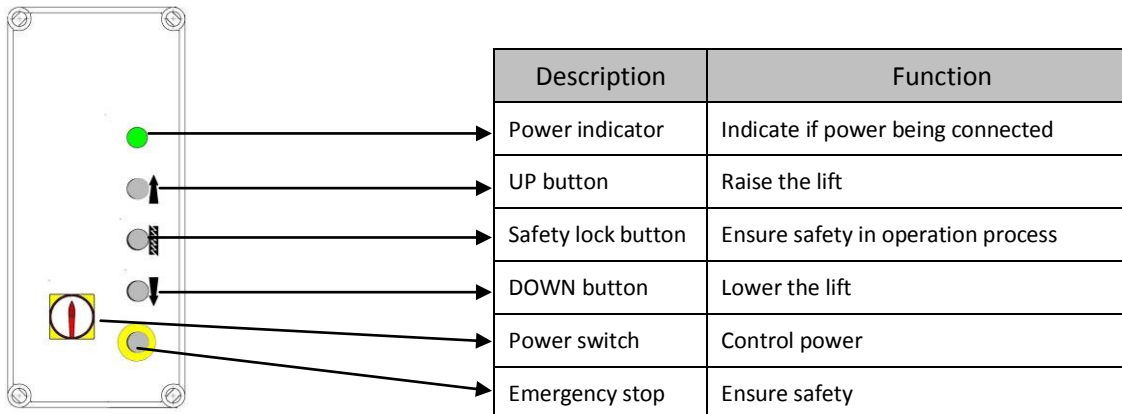
4.1.5 When lifting arms rise to the desired height, switch off the power at once to prevent any mal-operation done by unconcerned people.

4.1.6. Make sure the safety lock of the lift is engaged before start working under the vehicle and no people under the vehicle during lifting and lowering process.

## 4.2 Flow chart for operation



### 4.3 Operation instructions



#### Raise the lift

1. Make sure that you have read and understood the operation manual before operation.
2. Park the vehicle between two posts.
3. Adjust lifting arms until they reach the supporting positions of the vehicle and make sure the gravity of vehicle located midway of four lifting arms.
4. Switch on and insure to operate as per requirements on the nameplate attached.
5. Press the "UP" button on the control box until pads of lifting arms touched the prop-position of vehicle.
6. Keep on raising the vehicle to let it have a bit clearance from the ground and check again its stability.
7. Raise the vehicle to the desired height, check it is safe or not, press the "Safety Lock" button on the control panel to have the safety lock engaged, turn off the power and then perform maintenance or repair work underneath.

#### Lower the lift

1. Switch on.
2. Press the "DOWN" button on the control box. Meanwhile the lifting arms automatically go upwards about 5CM to release the safety lock. Then lifting arms start lowering.
3. After lifting arms lower to the lowest position, pull them out from under the vehicle and clear up all the obstacles.
4. Drive the vehicle away.



## 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, troubles could be judged and solved much faster if more details or pictures could be provided.

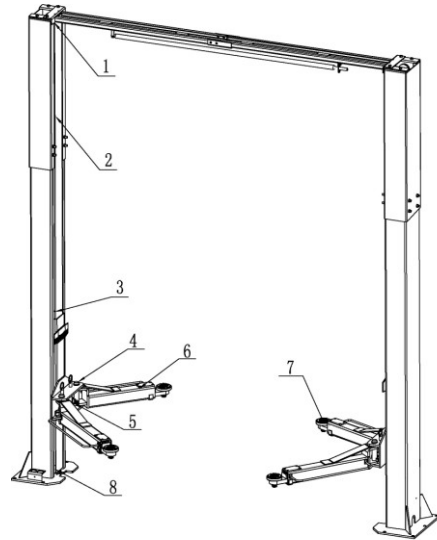
TROUBLES	CAUSE	SOLUTION
Abnormal noise	Abrasion exists on insider surface of the posts.	Grease the inside of the post.
	Trash in the post.	Clear the trash
Motor does not run and will not rise	The wire connection is loose.	Check and make a good connection.
	The motor is blown.	Replace it.
	The limit switch is damaged or the wire connection is loose.	Connect it or adjust or replace the limit switch.
Motor runs but will not raise	The motor run reversely.	Check the wire connection.
	Overflow valve is loose or jammed.	Clean or adjust it.
	The gear pump is damaged.	Replace it.
	Oil level is too low.	Add oil.
	The oil hose became loose or dropped off.	Tighten it.
	The cushion valve became loose or jammed.	Clean or adjusts it.
Carriages go down slowly after being raised	The oil hose leaks.	Check or replace it.
	The oil cylinder is not tightened.	Replace the seal.
	The single valve leaks.	Clean or replace it.
	E-magnetic valve fails to work well.	Clean or replace it.
	Steel cable is loose or not with same tightness	Check and adjust the tightness.
Raising too slow	The oil filter is jammed.	Clean or replace it.
	Oil level is too low.	Add oil.
	The overflow valve is not adjusted to the right position.	Adjust it.
	The hydraulic oil is too hot ( above 45° ) .	Change the oil.
	The seal of the cylinder is abraded.	Replace the seal.
	Inside surface of the posts is not well greased.	Add grease.
Lowering too slow	The throttle valve jammed.	Clean or replace.
	The hydraulic oil is dirty.	Change the oil.
	The anti-surge valve jammed.	Clean it.
	The oil hose jammed.	Replace it.
The steel cable is abraded	No grease when 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. Frequency of routine maintenance is determined by working condition and frequency.

The following parts need lubrication.

S/N	Name
1	UP pulley
2	Steel cable
3	Slider
4	Shaft
5	Arm lock
6	Lifting arm
7	Lifting tray
8	DOWN pulley



### 6.1 Daily checking items before operation

The user must perform daily check. Daily check of safety lock system is very important – the discovery of device failure before action could save time and prevent great loss, injury or casualty.

- Before operation, judge whether the safety locks are engaged by sound.
- Check whether oil hose well connected and whether it leaks or not.
- Check the connections of chain and steel cable and check the power unit.
- Check whether expansion bolts are firmly screwed.
- Check if arm lock works well or not.

### 6.2 Weekly checking items

- Check the flexibility of moving parts.
- Check the working conditions of safety parts.
- Check the amount of oil left in the oil tank. Oil is enough if the carriage can be raised to highest position. Otherwise, oil is insufficient.
- Check whether expansion bolts firmly screwed.

### 6.3 Monthly checking items

- Check whether expansion bolts are firmly screwed.
- Check the tightness of the hydraulic system and screw firm the joints if it leaks.
- Check the lubrication and abrasion circumstance of axial pins, carriages, lifting arms and other related parts and replace in time with new ones if they failed to work well.
- Check the lubrication and abrasion circumstance of steel cable.

### 6.4 Yearly checking items

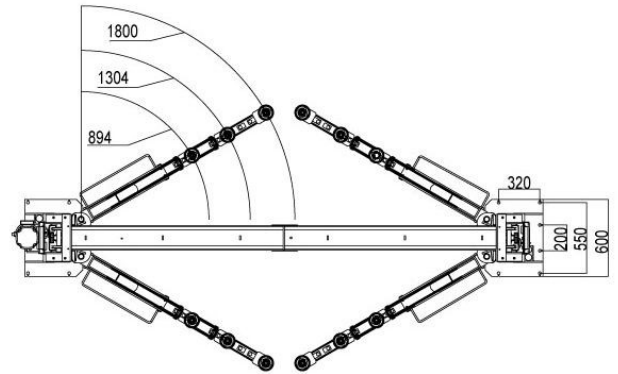
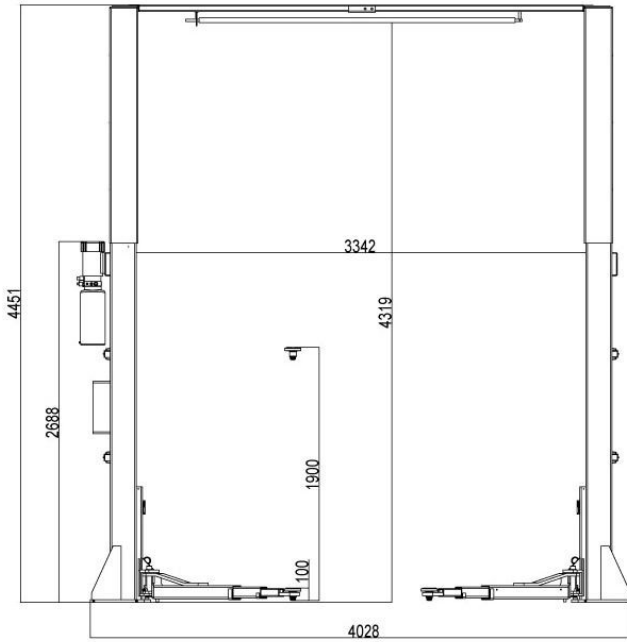
- Empty the oil tank and check the quality of hydraulic oil.
- Wash and clean the oil filter.

**If the above maintenance suggestions are strictly followed, the lift will always keep in a good working condition and meanwhile accidents could be avoided to a large extent.**

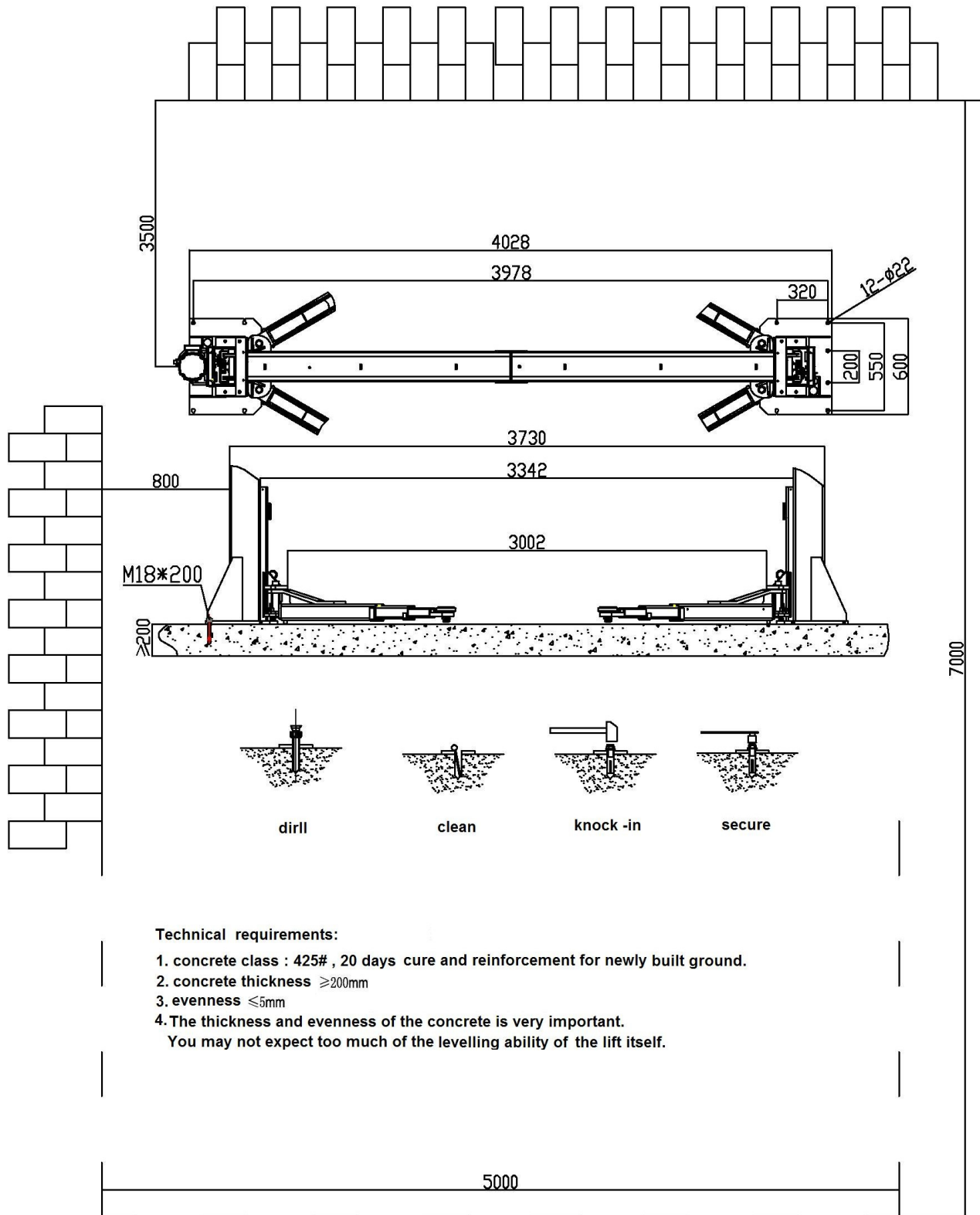
**Annex 1, Packing List of the whole lift**

S/N	Material #	Name	Drawing#	Qty	Property
1		Power unit		1	Assembly
2	615016009	Extending post	6215E-A9	2	Assembly
3	615016006B	Power-side post	6215E-A1	1	Assembly
4	615016007B	Post	6215E-A2	1	Assembly
5	615013011	Arm assembly	6255E-A4	4	Assembly
6		Control box		1	Assembly
7		Electromagnets package		1	Package
8	614016005	Cross beam (out)	6215E-A10-B1	1	Powder-coating
9	614016006	Cross beam (in)	6215E-A10-B2		Powder-coating
10	410160023	Roof protection bumper	6215E-A10-B3	1	Powder-coating
11	The carton includes the following				
	614013009	Feet protection fender	6255E-A4-B1-C7	4	Welded
	615004003C	Lifting tray	6254E-A7-B4	4	Assembly
	615016004B	Chain protection cloth	6215E-A5	2	Assembly
	624001042	Rubber oil hose L=400	6214E-A4-B3	1	Assembly
	420130040B	Rubber protection pad	6255E-A3-B3	2	Rubber
	410060011	Oil hose clip (Big)	6214-A1-B2	6	Zinc plating
	612015005	Pin	6255E-A13	4	Zinc plating
	410040061	Safety locking plate	6254E-A13	4	Zinc plating
	420040060	Electromagnet	6254E-A15	4	ABS
	612004003	Height adapter	6254E-A11	4	Zinc plating
	410040071	Positioning block	6254E-A17	4	Zinc plating
	410040023	Hose& wire cover	6254E-A18	7	Powder-coating
	410010051	Rod for chain protection cloth	6254E-A1-B5	4	Zinc plating
	201102020	Hex head full swivel screw	M10*35	4	Standard
	201102035	Hex head full swivel screw	M14*30	16	Standard
	201102034	Hex head full swivel screw	M14*25	5	Standard
	201102010	Hex head full swivel screw	M6*35	1	Standard
	201102027	Hex head full swivel screw	M12*30	4	Standard
	202110004	Hex socket button head screw	M8*12	8	Standard
	202101021	Cross socket cap head screw	M5*10	24	Standard
	202101025	Cross socket cap head screw	M5*23	12	Standard
	202101027	Cross socket cap head screw	M6*8	10	Standard
	202101031	Cross socket cap head screw	M6*16	4	Standard
	202103021	Cross socket flat head screw	M8*16	4	Standard
	204101004	Flat washer	M6	16	Standard
	204101008	Flat washer	M14	21	Standard
	203101006	Flat washer	M10	4	Standard
	204101007	Flat washer	M12	4	Standard
	204201005	Spring washer	M10	4	Standard
	204201007	Spring washer	M14	21	Standard
	204201006	Spring washer	M12	4	Standard
	203101004	Nut	M6	9	Standard
	203101006	Nut	M10	4	Standard
	203101008	Nut	M14	21	Standard
	204301013	Circlip 38	38	4	Standard
	201201007	Expansion bolts	M18*200	10	Standard

**Annex2, Overall diagram**



Annex3, Floor plan

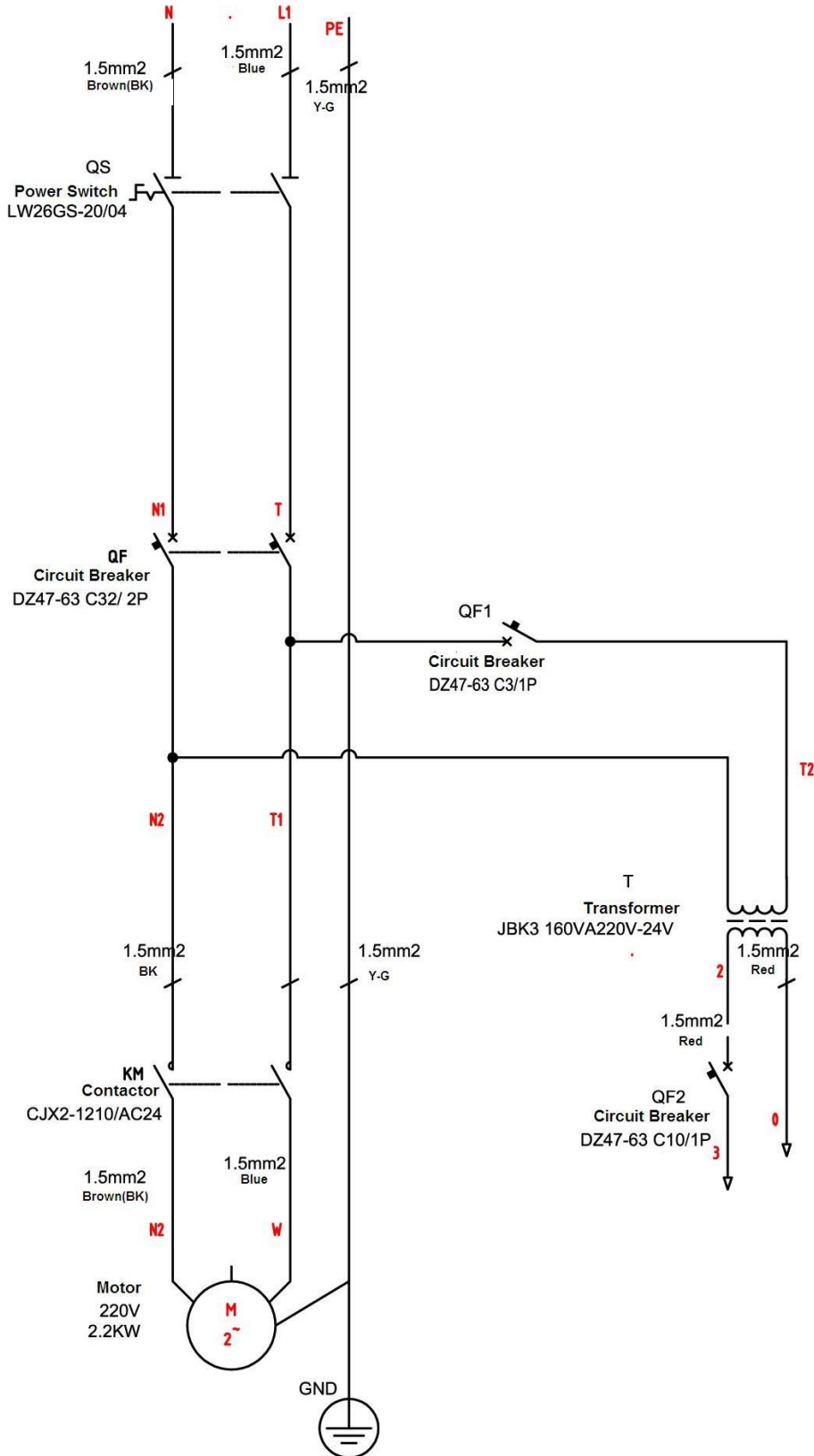


**Technical requirements:**

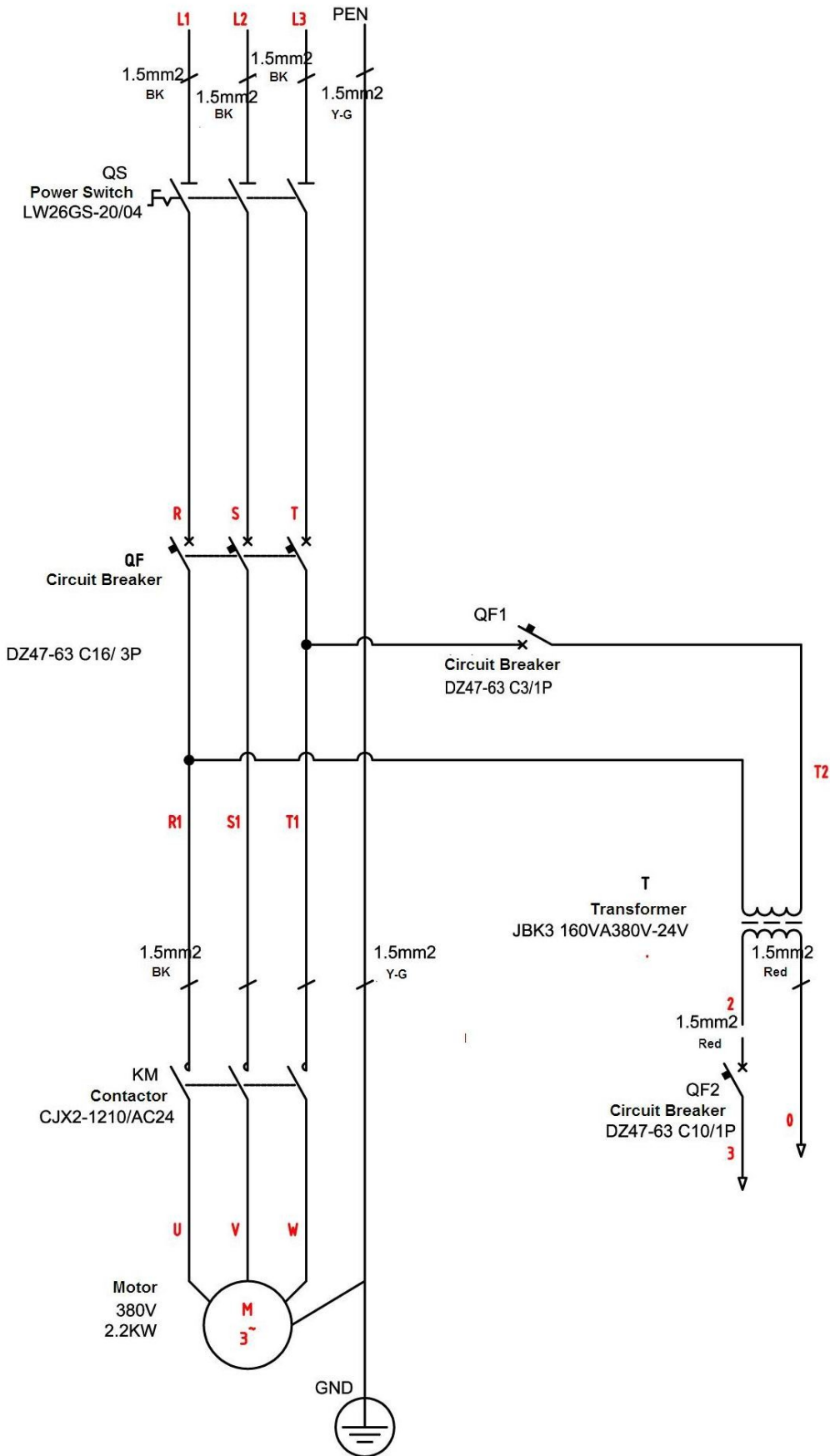
1. concrete class : 425# , 20 days cure and reinforcement for newly built ground.
2. concrete thickness  $\geq 200\text{mm}$
3. evenness  $\leq 5\text{mm}$
4. The thickness and evenness of the concrete is very important.  
You may not expect too much of the levelling ability of the lift itself.

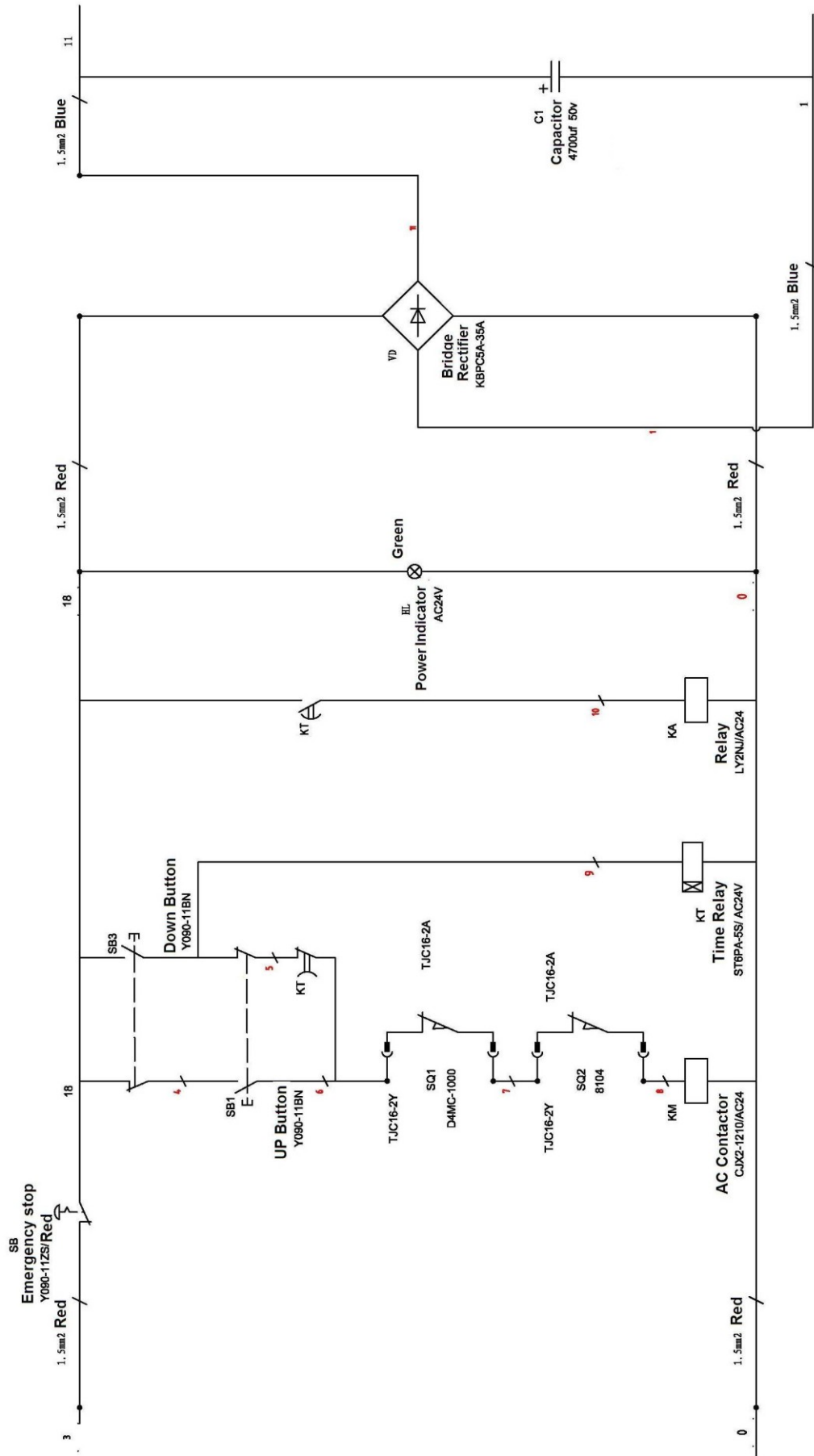
**Annex4, Wiring diagram**

NOTE: For specific requirements on voltage, the actual voltage of your lift may differ with the voltage marked in the following diagram.

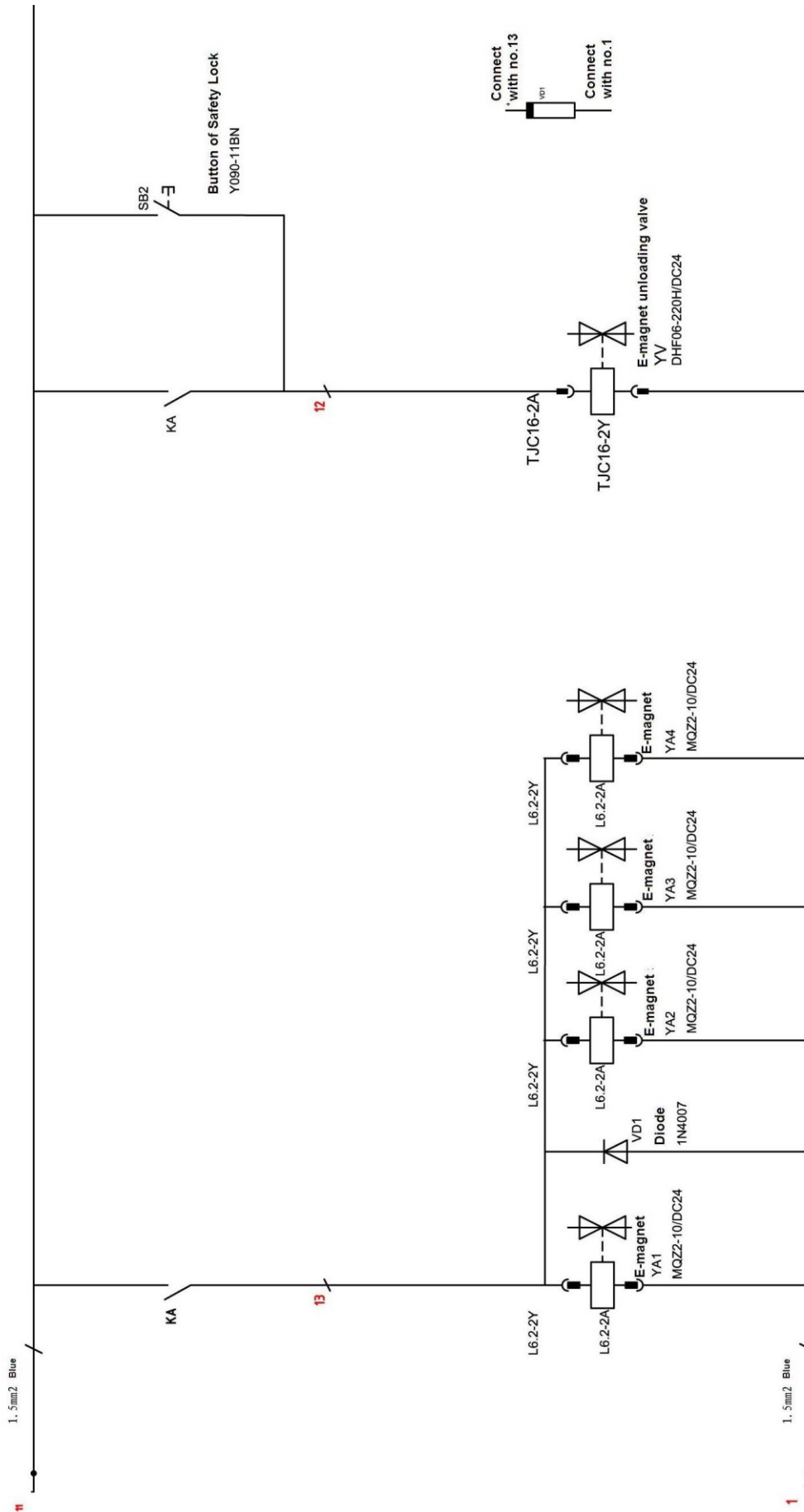
**Single phase**


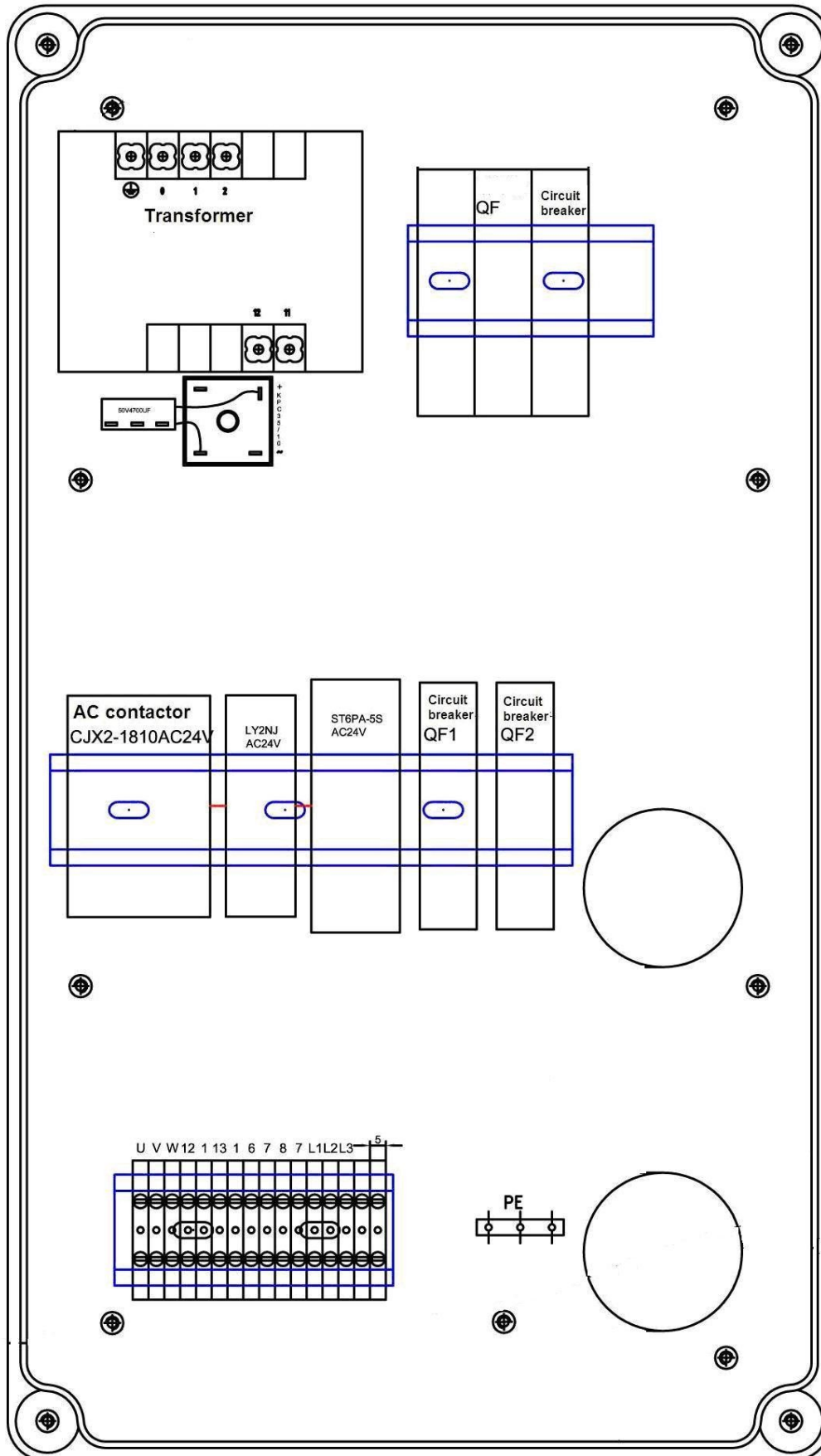
**Three phase**

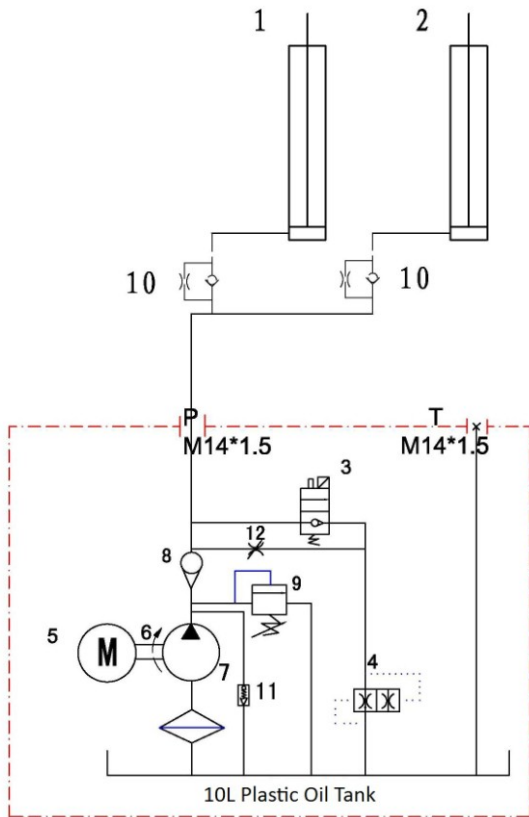




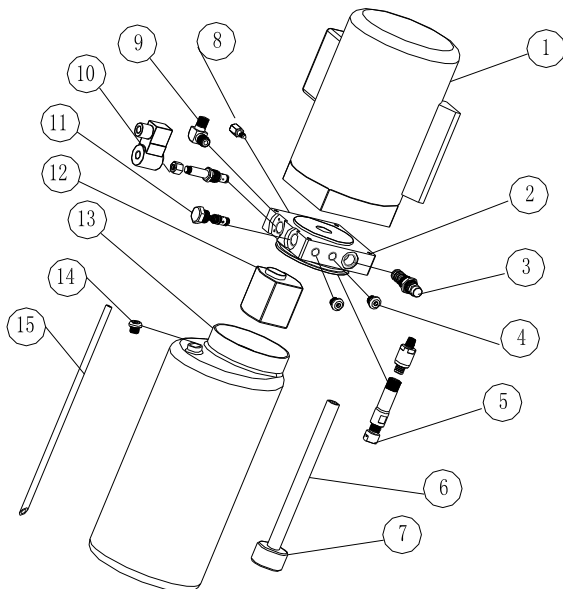




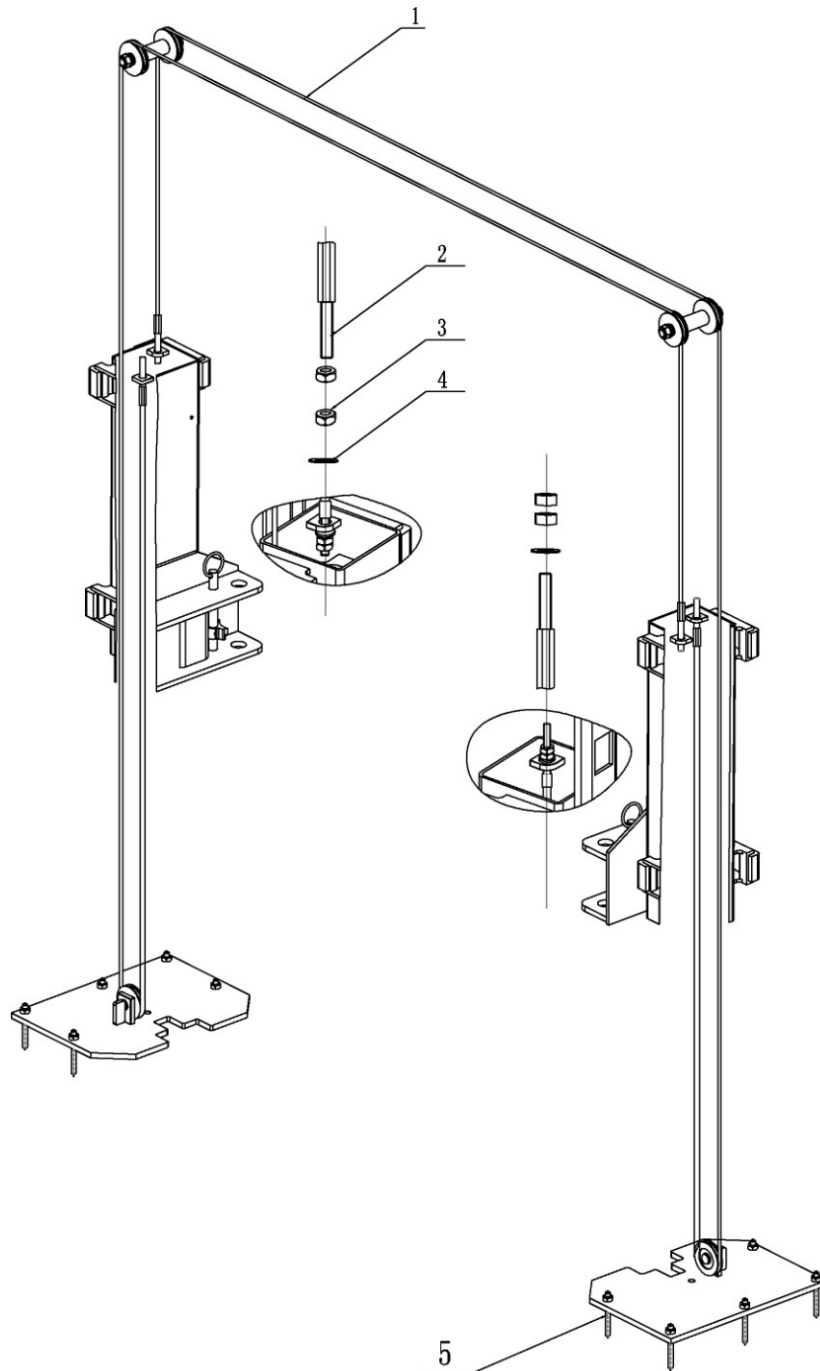


**Annex5, Hydraulic working system**


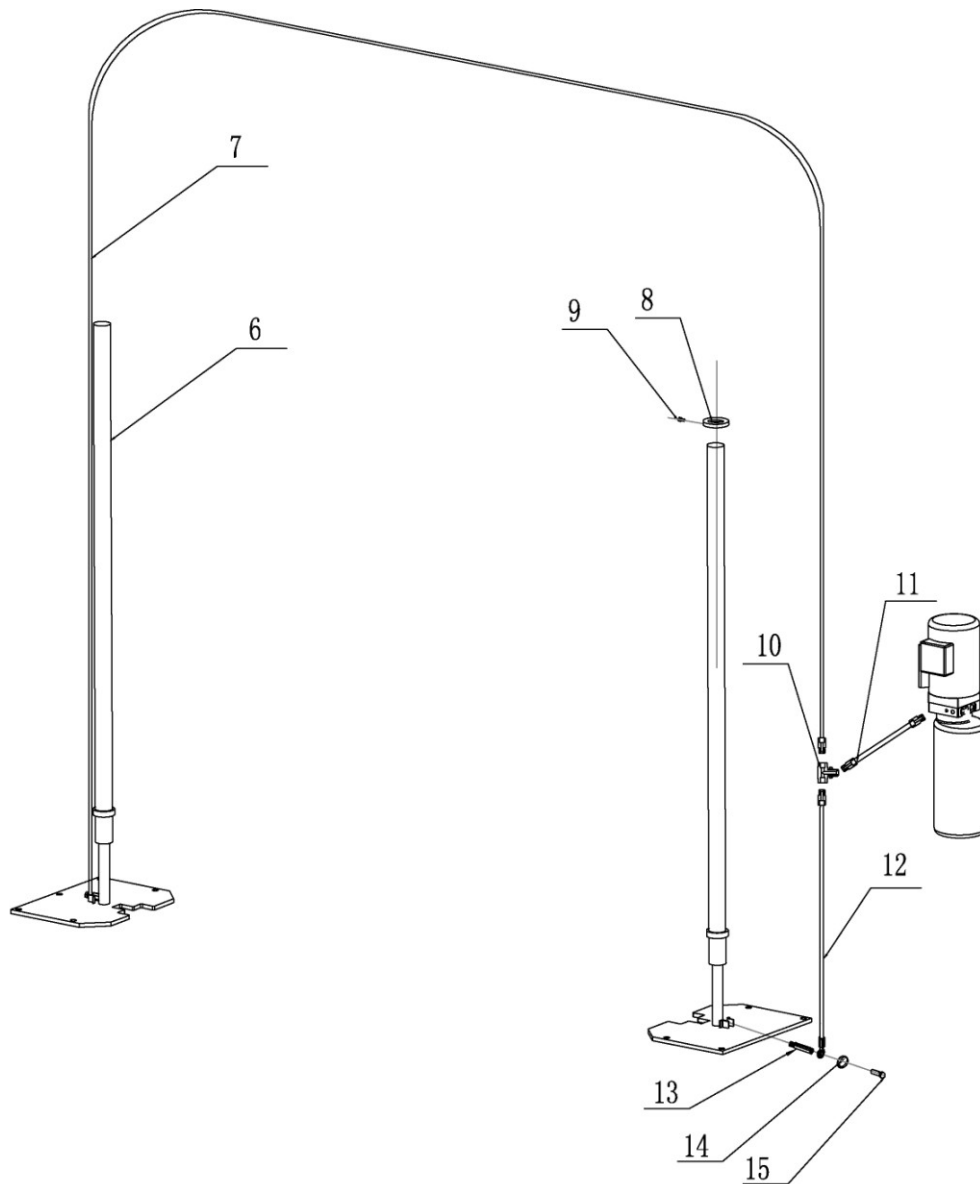
1. Driving cylinder
2. Assistant cylinder
3. Electro-unloading valve
4. Lowering throttle valve
5. Motor
6. Coupling
7. Gear pump
8. Single-way valve
9. Overflow valve
10. Anti-surge valve
11. Cushion valve
12. Emergent unloading valve



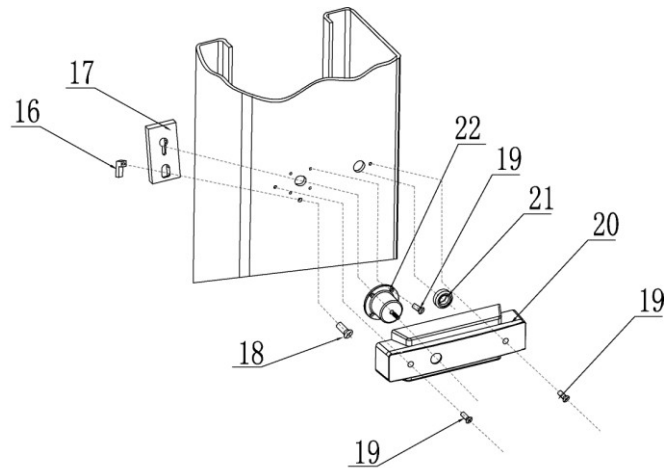
S/N	Name	Qty
1	Motor	1
2	Hydraulic block	1
3	Overflow valve	1
4	Removable plug	2
5	Cushion valve	1
6	Oil absorbing pipe	1
7	Oil filter	1
8	Throttle valve	1
9	Oil pipe tie-in	1
10	Electro-unloading valve	1
11	One-way valve	1
12	Gear pump	1
13	Plastic oil tank	1
14	Oil tank cover	1
15	Oil back pipe	1

**Annex6, Separated drawings for the lift**


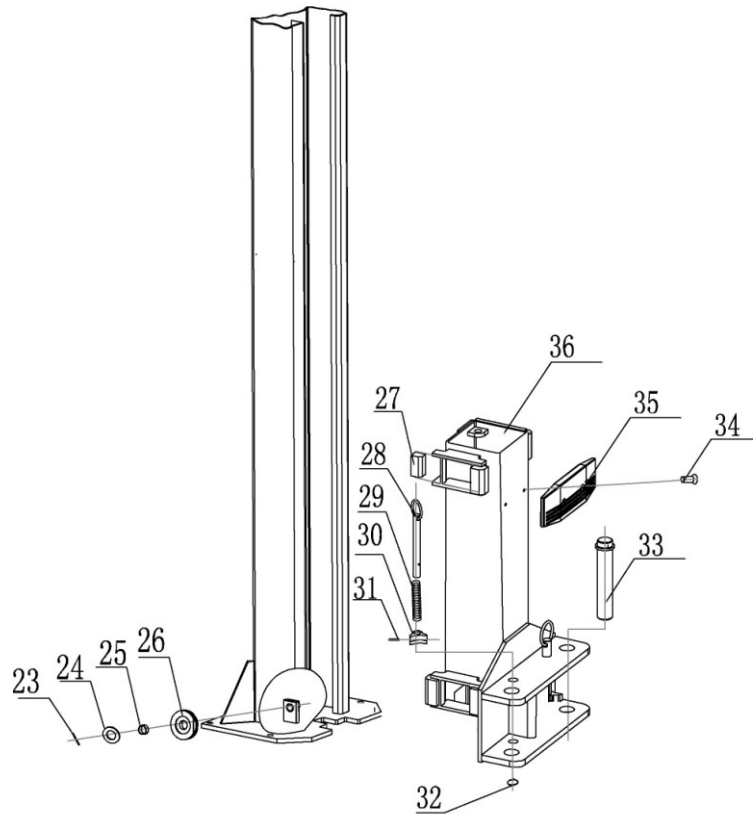
S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
1	615016001C	Steel cable L=12500mm		2	Assembly	
2	615016001C	Steel cable L=12500mm		2	Assembly	
3	203101012	Hex nut M20	GB/T610-2000	8	Standard	
4	204101011	Class C flat washer M20	GB/T95-1985	4	Standard	
5	201201008	Expansion bolt M18*200		12	Standard	



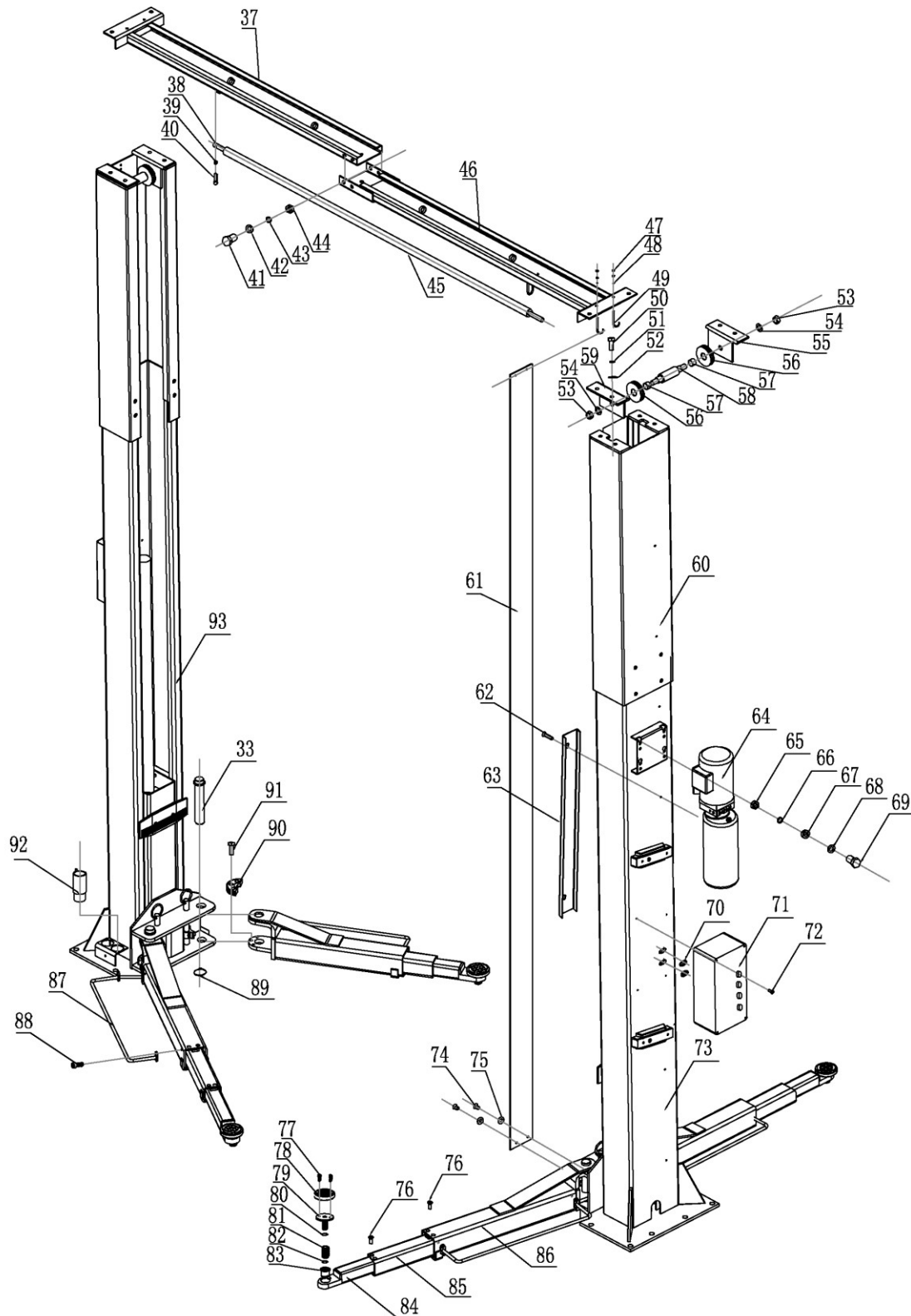
S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
6	615017013	Oil cylinder	6264-A24	2	Assembly	
7	624002005B	Φ8rubber oil hose	L=10100 (mm)	1	Assembly	
8	410170101B	Cylinder fix ring	6264-A24-B1	2	Q235A	
9	201102008	Hex head full swivel screw M6*16	GB/T5781-2000	2	Standard	
10	614006003	Three-way connector	6214E-A4-B4	1	Q235A	
11	624001042B	Φ8 Rubber oil hose	L=400(mm)	1	Assembly	
12	624002004B	Φ8 Rubber oil hose	L=2265(mm)	1	Assembly	
13	615015003	Composite connector	6255E-A7-B7	2	Assembly	
14	207103025	Composite washer	13.7*20*1.5	4	Copper	
15	615015003	Composite connector	6255E-A7-B7	2	Assembly	



S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
16	410040071	Positioning block	62154E-A17	4	Q235A	
17	410040051	Safety locking plate	6254E-A13	4	Q235A	
18	202101031	Cross socket cap head screw M6*16	GB/T818-2000	4	Standard	
19	202101021	Cross socket cap head screw M5*10	GB/T818-2000	24	Standard	
20	420040100	Electromagnet protector	6254E-A15	4	Plastic	
21	420040020	Φ20 hose clip	6254E-A22	4	Rubber	
22	330310005	Electromagnet(small)	6254E-A14	4	Assembly	



S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
23	206201001	Cotter pin $\Phi 2.5 \times 30$	GB/T91-2000	2	Standard	
24	410010031	Washer	6254E-A1-B3	2	Zinc-plating	
25	205101008	Bearing 2518	SF-1	2	Standard	
26	6255E-A1-B2	Pulley	6254E-A1-B2	2	Zinc-plating	
27	420010010	Sliding block	6254E-A2-B5	16	Nylon	
28	612015006B	Pulling pod	6255E-A3-B4	4	Zinc-plating	
29	410150121	Pressure spring	6254E-A2-B4	4	Zinc-plating	
30	410150111	Teeth block	6254E-A2-B3	4	Zinc-plating	
31	206102006	Elastic pin $5 \times 35$	GB/T879.1-2000	4	Standard	
32	204301008	Type B circlip 22	GB/T894.2-1986	4	Standard	
33	612015005	Shaft	6255E-A13	4	Zinc-plating	
34	202103021	Cross socket flat head screw $M8 \times 16$	GB/T819.1-2000	4	Standard	
35	420130040B	Protection rubber pad	6255E-A3-B3	2	Rubber	
36	614016003B	Carriage	6215E-A3-B1	2	Welded	



S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
37	614016006	Cross beam (in)	6215E-A10-B2	1	Welded	
38	410160023	Roof protection bar	6215E-A10-B3	1	Q235A	
39	203103005	Hex locking nut with non-metallic insert M6	GB/T889.1-2000	1	Standard	
40	201102010	Hex head full swivel screw M6*35	GB/T5781-2000	1	Standard	



S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
41	201102034	Hex head full swivel screw M14*25	GB/T5781-2000	5	Standard	
42	204101008	Flat washer M14	GB/T95-1985	5	Standard	
43	204201007	Spring washer M14	GB/T93-1987	5	Standard	
44	203101008	Hex nut M14	GB/T6170-2000	5	Standard	
45	420060010	Black foam		1	Foam	
46	614016005	Cross beam (out)	6215E-A10-B1	1	Welded	
47	203101004	Hex nut M6	GB/T6170-2000	8	Standard	
48	204101004	Flat washer M6	GB/T95-1985	4	Standard	
49	410010051	Rod of chain protection cloth	6254E-A1-B5	4	Standard	
50	201102027	Hex head full swivel screw M12*30	GB/T5781-2000	4	Standard	
51	204201006	Spring washer M12	GB/T93-1987	4	Standard	
52	204101008	Flat washer M12	GB/T95-1985	4	Standard	
53	203101012	Hex nut M20	GB/T6170-2000	1	Standard	
54	204101011	Flat washer M20	GB/T95-1985	1	Standard	
55	410060033	Left supporting bracket	6214E-A22-B1	2	Q235A	
56	410130051	Pulley	6255E-A1-B2	4	Q235A	
57	205101008	Bearing 2518	SF-1	4	Standard	
58	410160011	Shaft of up pulley	6215E-A9-B3	2	Zinc-plating	
59	410060023	Right supporting bracket	6214E-A22-B3	2	Q235A	
60	614016004	Extending post	6215E-A9-B1	2	Welded	
61	615016004	Chain protection cloth	6215E-A5	2	Assembly	
62	202101026	Cross socket cap head screw M5*30	GB/T818-2000	16	Standard	
63	410040023	Hose protector	6254E-A18	8	Q235A	
64		Hydraulic power unit	6215E	1	Assembly	
65	203101006	Hex nut M10	GB/T6170-2000	4	Standard	
66	204201005	Spring washer M10	GB/T93-1987	4	Standard	
67	420040010	Anti-shock pad	6254E-A23	4	Rubber	
68	204101006	Flat washer M10	GB/T95-1985	4	Standard	
69	201102020	Hex head full swivel screw M10*35	GB/T5781-2000	4	Standard	
70	420040030	Φ40 hose clip	6254E-A21	2	Rubber	
71		Control box	6255E	1	Assembly	
72	202101021	Cross socket cap head screw M5*10	GB/T818-2000	4	Standard	
73	614016001B	Power side post	6215E-A1-B1	1	Welded	
74	202101027	Cross socket cap head screw M6*8	GB/T818-2000	4	Standard	
75	204101004	Flat washer M6	GB/T95-1985	4	Standard	
76	202103019	Cross socket flat head screw M8*10	GB/T819.1-2000	16	Standard	
77	202111007	Hex socket flat head screw M8*20	GB/T70.3-2000	8	Standard	
78	420130010	Rubber lifting pad	6214EKZ-A4-B4-C4	4	Rubber	
79	612013001	Lifting tray	6214EKZ-A4-B4-C1	4	Welded	
80	204302001	Circlip 35	GB/T895.2-1986	4	Standard	
81	410130031	Swivel sheath	6214EKZ-A4-B4-C2	4	Zinc-plating	
82	204302005	Circlip 42*2.5	GB/T895.2-1986	8	Standard	
83	410130041	Inside swivel sheath	6214EKZ-A4-B4-C3	4	Zinc-plating	

S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
84	614013007	Short arm	6255E-A4-B3	4	Welded	
85	614013006	Mid arm	6255E-A4-B2	4	Welded	
86	614013005	Lifting arm	6255E-A4-B1	4	Welded	
87	614013009	Feet protection fender	6255E-A4-B1-C7	4	Welded	
88	202110004	Hex socket cylinder button head screw M8*12	GB/T70.2-2000	8	Standard	
89	204301013	Circlip 38	GB/T894.2-1986	4	Standard	
90	410150131	Teeth block	6254E-A7-B6	4	Q235A	
91	202109041	Hex socket cylinder head screw M10*20	GB/T70.1-2000	12	Standard	
92	612013002	Height adapter	6214EKZ-A4-B5	4	Zinc-plating	
93	614016002B	Post	6215E-A2-B1	1	Welded	

**Annex7, Spare parts list**
**Spare parts list -for the electrical system**

S/N	Material #	Item	Spec.	Qty	PIC.	Note
1	320304001	Power switch	LW26GS-20/04	1		
2	320401001	Button	Y090-11BN	3		
3	320201001	Power indicator	AD17-22G-AC24	1		
4	320101054	Transformer	JBK-160VA220V-24V	1	Same as item7	
5	320101055	Transformer	JBK-160VA230V-24V	1	Same as item7	
6	320101056	Transformer	JBK-160VA240V-24V	1	Same as item7	
7	320101057	Transformer	JBK-160VA380V-24V	1		
8	320101058	Transformer	JBK-160VA400V-24V	1	Same as item7	
9	320101059	Transformer	JBK-160VA415V-24V	1	Same as item7	
10	320901001	AC contactor	CJX2-1210/AC24	1		
11	320801001	Circuit breaker	DZ47-63 C16 /3P	1		
12	320802001	Circuit breaker	DZ47-63 C32 /2P	1		

S/N	Material #	Item	Spec.	Qty	PIC.	Note
13	320803001	Circuit breaker	DZ47-63 C3 /1P	1		
14	320803005	Circuit breaker	DZ47-63 C6 /1P	1	Same as item7	
15	320301002	Limit switch	D4MC1000	1		
16	320301011	Limit switch	TZ8108	1		
17	321002001	Bridge rectifier	KBPC5A-35A	1		
18	321001004	Capacitor	4700UF/50V	1		
19	321204002	Control box	big	1		
20	320601004	Relay	LY2NJ/AC24	1		
21	320601009	Relay holder	PTF-08A	1		
22	320602001	Time relay	ST6PA-5S/AC24V	1		
23	620602006	Time relay holder	PYF-08A	1		

**Spare parts list – for the mechanical system**

S/N	Material #	Name	Drawing#/Spec.	Qty	Property	Note
1	420010010	Slider	6254E-A2-B5	16	Nylon 1010	
2	420040050B	Rubber lifting pad	6254E-A7-B4-C4	4	Rubber	
3	207101022	O-seal ring	ID 7.6*2.62			
4	207103002	Y- seal ring	B7-50*40*7			
5	207105004	Anti-dust ring	DHS38(38*46*6)			