

EE-6213/6214

Clear floor Two Post Lift Manual Release
Lifting Capacity: 3200KG/4000KG

INSTALLATION, OPERATION AND MAINTENANCE MANUAL



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

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1. IMPORTANT SAFETY INSTRUCTIONS

1.1 Important notices

Ever-Eternal 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 caused thereby.

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 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.

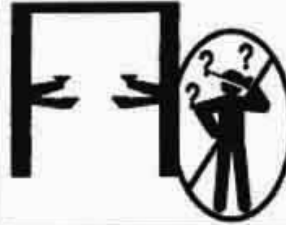



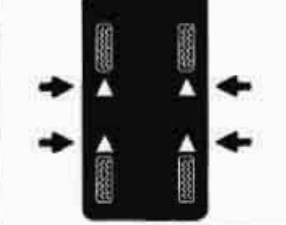


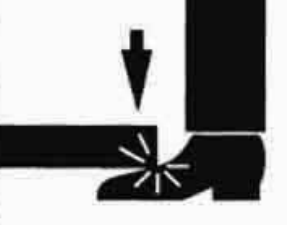




1.3.14 If the lift is going to left used for a long time, users are required to:

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

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

1.4 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>⚠ CAUTION ⚠</p>  <p><i>Lift is only allowed to be used by trained operator.</i></p>	<p>⚠ CAUTION ⚠</p>  <p><i>Only authorized personnel allowed in lift area.</i></p>	 <p><i>Remain clear of lift when lowering or lifting vehicle.</i></p>	 <p><i>Clear area if vehicle is in danger of falling.</i></p>
<p>⚠ CAUTION ⚠</p>  <p><i>Lift vehicle at the manufacturer's points</i></p>	<p>⚠ CAUTION ⚠</p>  <p><i>Always use safety stands when removing/installing heavy components</i></p>	 <p><i>Locate the vehicle with center gravity right between two adapters.</i></p>	 <p><i>Keep feet away from adapter while lift lowering.</i></p>
<p>⚠ CAUTION ⚠</p>  <p><i>Use height extenders when necessary to ensure good contact.</i></p>	<p>⚠ CAUTION ⚠</p>  <p><i>Auxiliary adapters may reduce load capacity.</i></p>	 <p><i>Do not override self-closing lift controls</i></p>	 <p><i>Avoid excessive rocking of vehicle while on lift.</i></p>

1.5 Sound Level

The sound emitted from the lift should not exceed 75DB. For the sake of your health, we suggest putting a noise detector in your working area.

1.6 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.

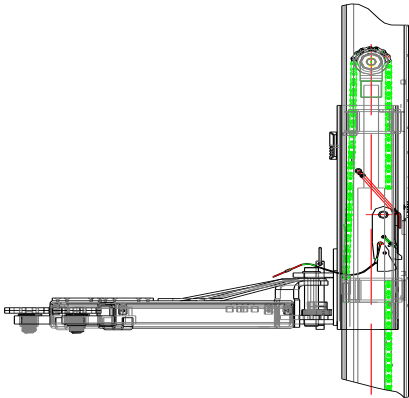
2. Overview of the lift

2.1 General descriptions

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

The lift is drove 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 latch will automatically and firmly bite with the safety teeth block in the posts. Therefore, no sudden dropping-down will happen in case the hydraulic system beaks down.

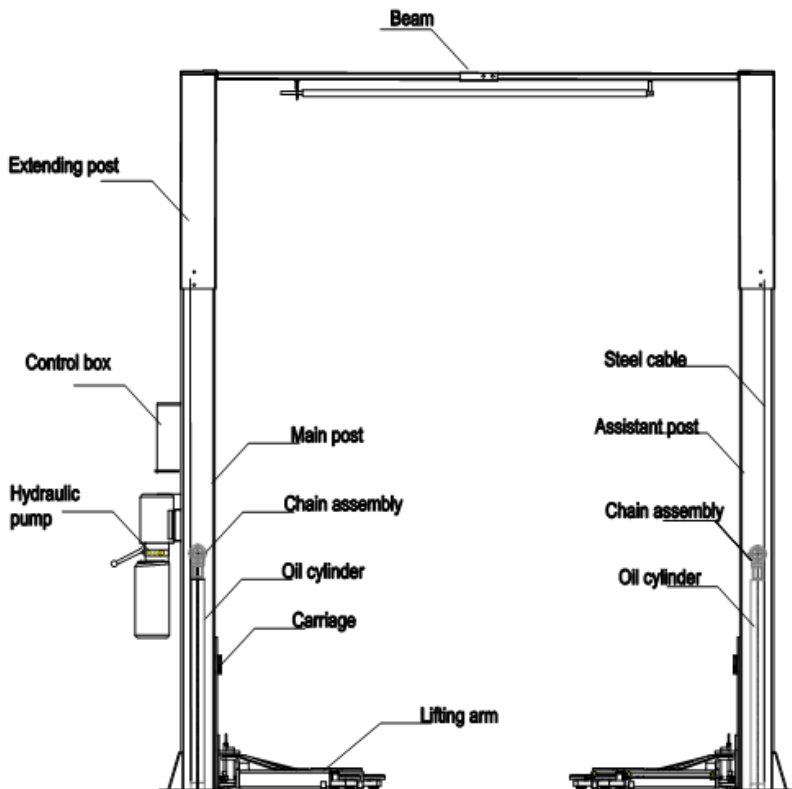
Safety structure:



2.2 Technical data

Model	Lifting capacity	Lifting time	Lifting height	Height	Width	Width between posts
EE-6213	3200kg	55s	1900mm	3882mm	3420mm	2830mm
EE-6214	4000kg	55s	1900mm	3882mm	3420mm	2830mm

2.3 Construction of the lift



3. 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, Ever-eternal 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. and cover plate. Please do read and understand this manual thoroughly before next step.

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 because 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: Fix the standing position for the two posts by chalk and a tape measure, with a width of 2830mm between them.

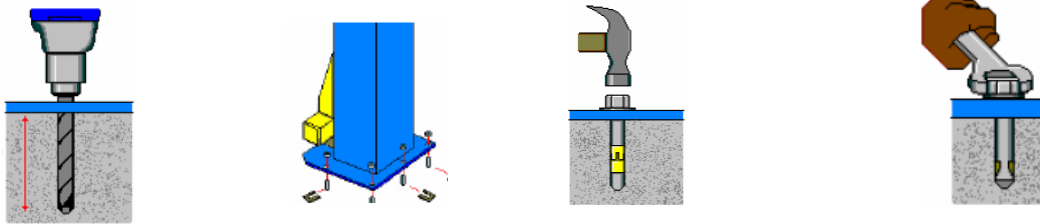
1. Unfold the package and decide on which post the power unit will be mounted.

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2. Draw an outline of the base plate on the ground with chalk and ascertain the standing position for the two posts .

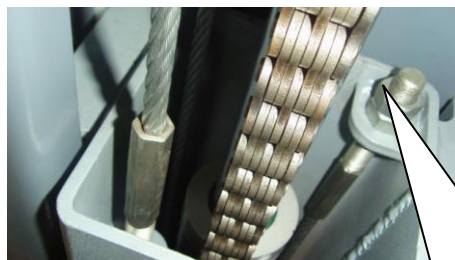
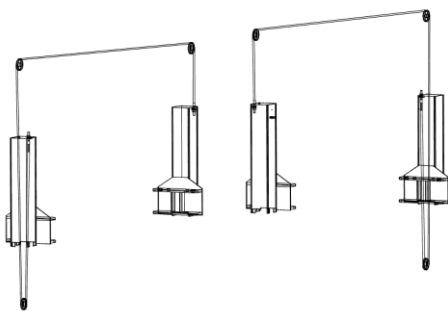
Step 5: Erect and secure the posts, main post(the post on which the control box and hydraulic pump assembly will be mounted) first and then the assistant post.

1. Firstly have the extending small post firmly secured on to the body posts with properly bolts .
2. Drill anchor holes for each expansion bolt on the ground with an electrical drill. Make sure to drill vertically.
3. After holes have been drilled, remove thoroughly the debris and dust in them and ascertain that the posts stay right upon the outline previously drawn by chalk.
4. 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.
5. Erect and secure the assistant post similarly as per step, 1,2,and 3.
6. Use proper lifting equipments to have the cross beam lifted onto the top of the two posts and then secure it with proper bolts.



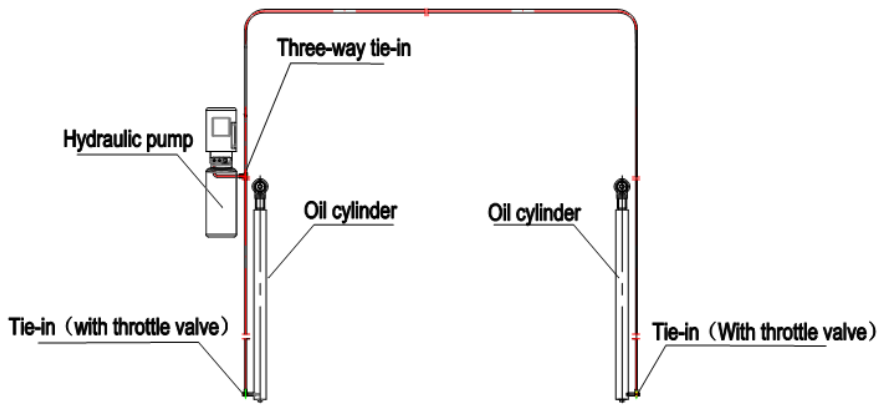
Step7: Connect the steel cable

1. Raise carriages on both sides approximately 800mm above the ground.
2. Make sure that the safety locks in each post are fully engaged before attempting to route steel cables.
3. Carriages must be on the same height from the floor before proceeding.
4. Install according to the following diagram of steel cable connection .
5. After the steel cable has been fixed, adjust and make cable at both sides be with the same tightness which could be judged by the sound emitted during lifting process. If currently installers can not ascertain, they can make adjustment in trial running process.
6. Grease the steel cable and chain after they have been fixed. (It is a must.)



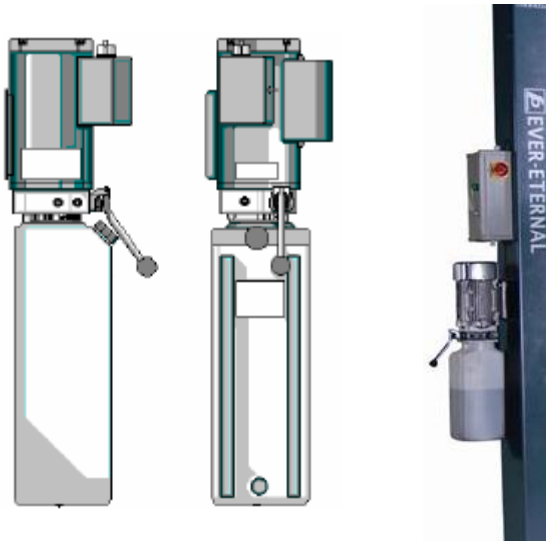
Step8: Connect the oil hose

1. Make sure all hose ends are clean.
2. Connect the oil hose as per the following diagram.

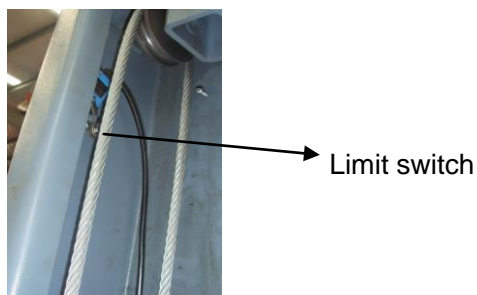


Step9: Mount the power unit and the control box

1. Mount the power unit onto the main post.
2. Connect the power unit with the control box as per the wiring diagram.

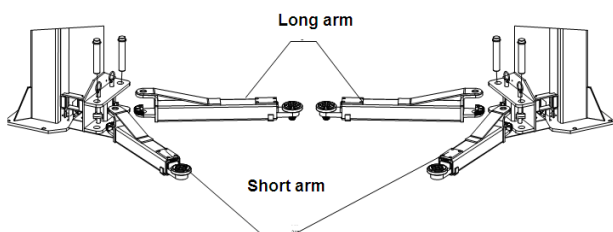


3. Connect the limit switch



Step10: Install the lifting arms

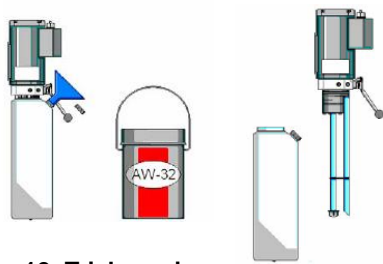
Connect the lifting arm and the carriage by pins. Install the lifting arms onto the carriages and make sure the safety lock and safety teeth are well matched.



Step11: Fill with hydraulic oil

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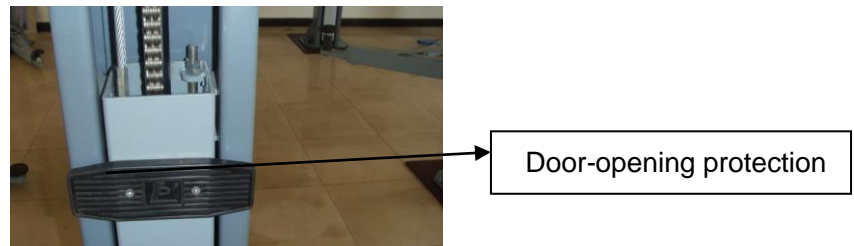
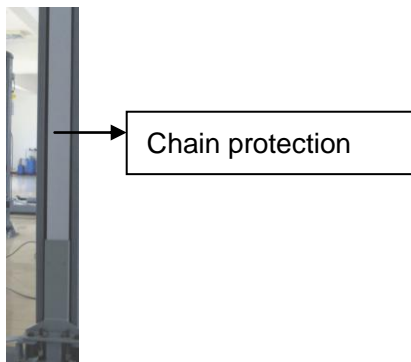
The volume of oil tank is 10L. To insure the lift work normally, the amount of oil in it should reach 80% of the tank's total volume.



Step12: Trial running

1. 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.
2. Check if all the connections are in good condition.

Step 13: Install the chain protection and door-opening protection



3.4 Items to be checked after installation

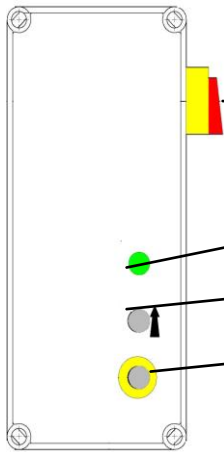
S/N	Check items	YES	NO
1	Are the posts vertical to the floor?		
2	Are the two posts paralleled?		
3	Is the oil hose well connected?		
4	Is the steel cable well connected?		
5	Are all lifting arms well fixed?		
6	Are electrical connections right?		
7	Are the rest joints firmly screwed?		
8	Are all items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

4. Operation instructions

4.1 Precautions

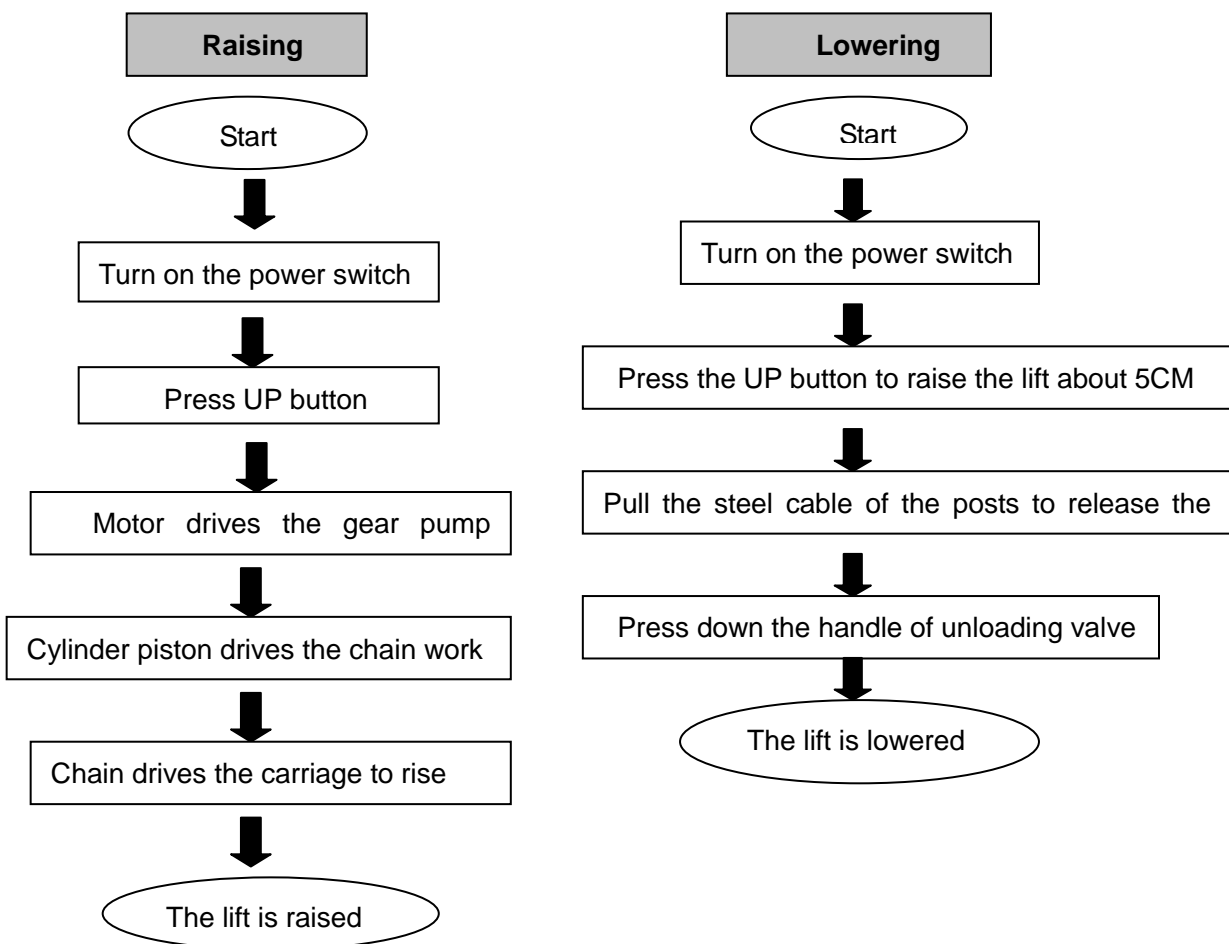
- 4.1.1 Check all the joints of oil hose. Only when there is no leakage, the lift can start work.
- 4.1.2 The lift, if its safety device malfunctions, shall not be used.
- 4.1.3 The machine shall not lift or lower an automobile if its center of gravity is not positioned midway of the swing arms. Otherwise, the Ever-Eternal 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 Descriptions of control box



Description	Function
Power switch	Switch on or off
Power indicator	Indicate if power being connected
UP button	Raise the lift
Emergency stop	Ensure safety

4.3 Flow chart for operation



4.4 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 the 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.

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5. Gently 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 again whether it is safe or not, press down the handle of unloading valve to have the safety lock engaged, turn off the power and then perform maintenance or repair work underneath.

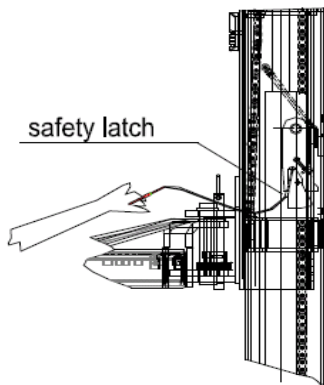
Lower the lift

1. Switch on.
2. Press the UP button to loose the safety lock.
3. Pulling the steel cable (SAFETY LOCK) on each post to release the safety lock before lowering.
4. Lower the lift by pressing the handle of manual unloading valve.
5. After the arms being lowered to the lowest position, pull them to the horizontal position and clear up all the obstacles.
6. Drive the vehicle away.

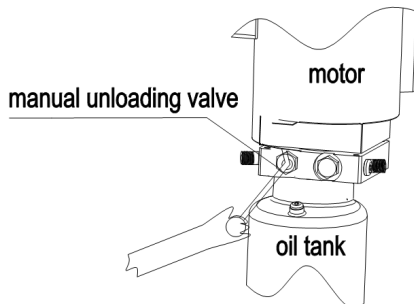
4.5 Emergency lowering in case of no power

The carriage is not engaged:

- a. Pull off the safety latch release wires on the two posts.

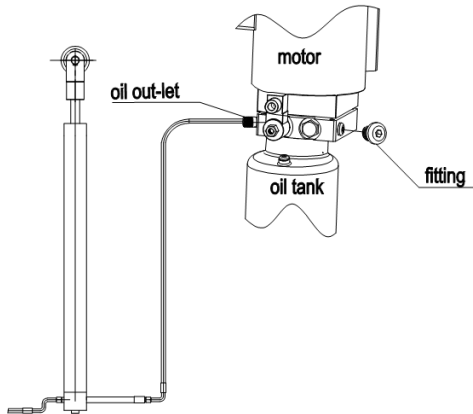


- b. Press the handle of the manual unloading valve to lower the carriage.

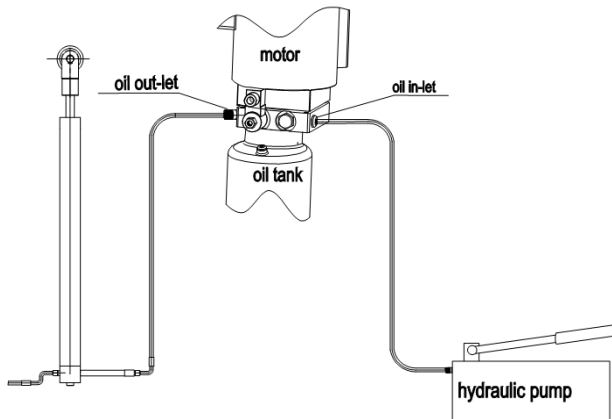


The carriage is engaged:

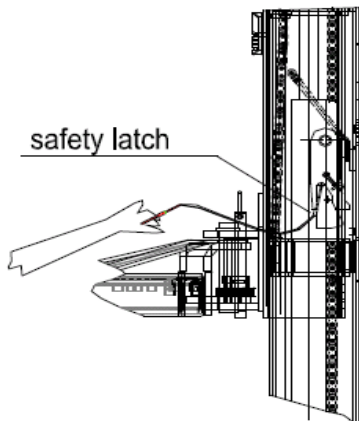
- a. Screw off the fitting (opposite to the oil out-let) to connect the manual hydraulic pump.



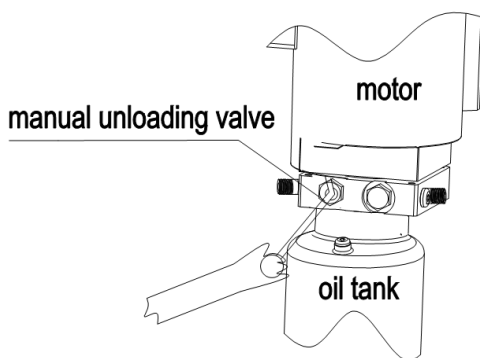
b. Press the handle of the hydraulic pump (optional) to supply oil to the cylinder and release the lock.



c. Pull on the safety latch steel wires attached on the two posts.



d. Press the handle of the manual unloading valve to lower the carriage.



5. 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 we can get in time 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	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.
	The overflow valve leaks.	Clean or replace it.

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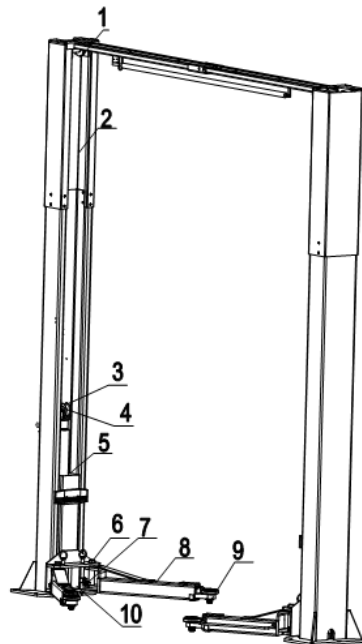
	Manual unloading valve or electrical unloading valve leaks.	Clean or replace it.
Raising too slow	The oil filter is jammed.	Clean or replace it.
	Oil level is too low.	Add oil.
	The overflow valve is not adjusted to the right position.	Adjust it.
	The hydraulic oil is too hot (above 45°) .	Change the 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.

6. Maintenance

Easy and low cost routine maintenance can ensure the lift work normally and safely. Following are requirements for routine maintenance. You may choose the frequency of routine maintenance by consulting your lift's working conditions and time.

THE FOLLOWING PARTS NEED LUBRICATING

S/N	Description
1	Upper wheel
2	Steel cable
3	Chain wheel
4	Chain
5	Sliding block
6	Pin
7	Arm block
8	Lifting arm
9	Tray
10	Down wheel



6.1. Daily checking items before operation

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

- Before operation, judge whether the safety latch is 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 firmly screwed.
- Check if safety teeth and safety block matched 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 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 requirements are strictly followed, the lift will always keep in a good working condition and meanwhile accidents could be avoided to a large extent.

7. ANNEX

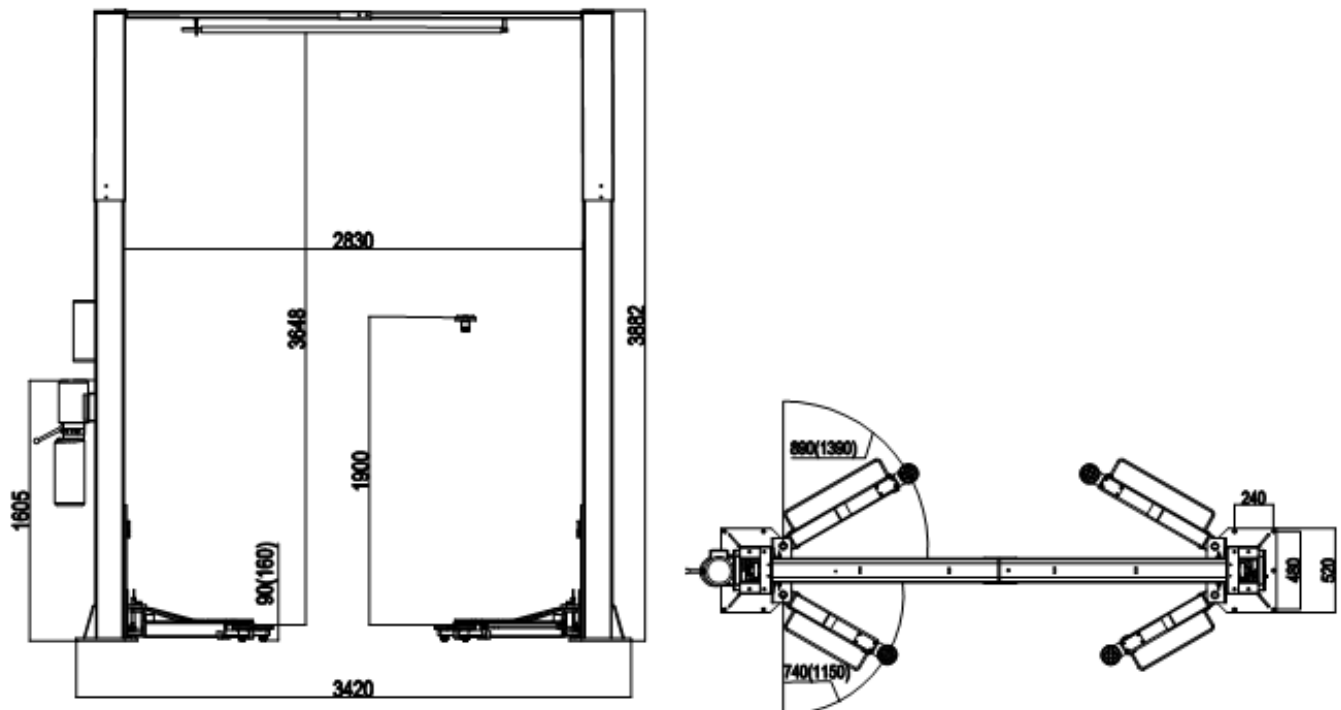
Annex 1 , Packing List of the whole lift

S/N	Name	Drawing#/Size	Material	Qty
1	Post	6254M-A1	Assembly	2
2	Carriage	6254M-A2	Assembly	2
3	Long arm	6254E-A7	Assembly	2
4	Short arm	6254E-A8	Assembly	2
5	Packing frame 1	6254E-A30-B1	Welding	1
6	Packing frame 2	6254E-A30-B2	Welding	1
7	Oil cylinder	6254-A5-B4	Assembly	2
8	Hydraulic pump	6254-A5-B6	Assembly	1
9	Electrical system	6254M-A5	Assembly	1
10	Beam (inside)	6214-A21-B2	Welding	1
11	Beam (outside)	6214-A21-B4	Welding	1
12	Long rod (with seam)	6214-A21-B5	Q235-A	1
13	Steel cable L=10840	6214-A6	Assembly	2
14	Extending post	6214-A20	Q235-A	2
15, the carton contains the following				
	Rubber pad	6254-A7-B10	Rubber	2
	Oil hose L=220	6214-A5-B1	Assembly	1
	Chain protection	6214-A1-B3		2
	Pulling rod for chain	6254-A1-B6	Q235A	4

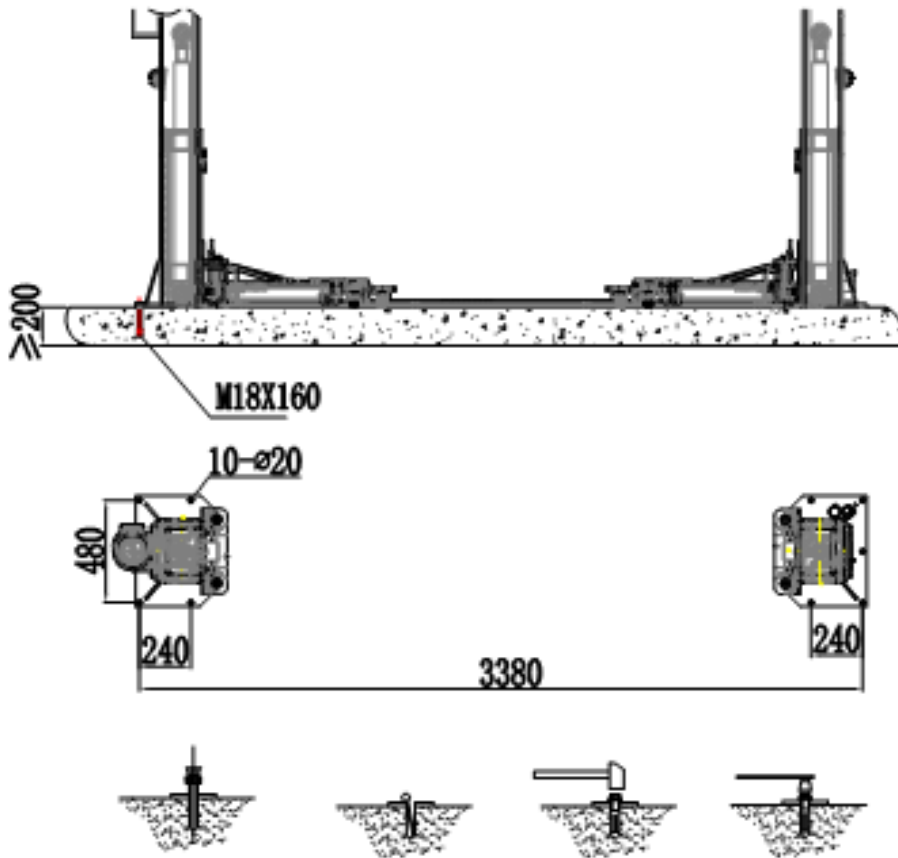
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	Tray assembly	6254E-A7-B4	Assembly	4
	Long arm fender	6254-A7-B5	Assembly	2
	Short arm fender	6254S-A9-B3	Welding assembly	2
	Height adapter	6254E-A11	Q235A	4
	Pin	6214F-A12	Assembly	4
	Long rod supporter	6214-A21-B1	Welding	1
	Oil hose fixer		Q235A	6
	Oil hose fixer		Q235A	13
	Outside hex bolt	M10*30	Standard	4
	Outside hex bolt	M6*35	Standard	1
	Inside hex bolt	M12*16	Standard	2
	Inside hex bolt	M8*12	Standard	8
	Cross sunk head bolt	M8*25	Standard	4
	Cross round head bolt	M6*8	Standard	23
	Spring washer	M6	Standard	9
	Flat washer	M6	Standard	23
	Flat washer	M10	Standard	4
	Spring washer	M10	Standard	4
	Spring washer	M12	Standard	4
	Nut	M10	Standard	4
	Nut	M6	Standard	9
	Circlip	Φ25	Standard	9
	Expansion bolt	M18*160	Standard	10
	Outside hex bolt	M14X25	Standard	21
	Spring washer	M14	Standard	21
	Flat washer	M14	Standard	21
	Nut	M14	Standard	21

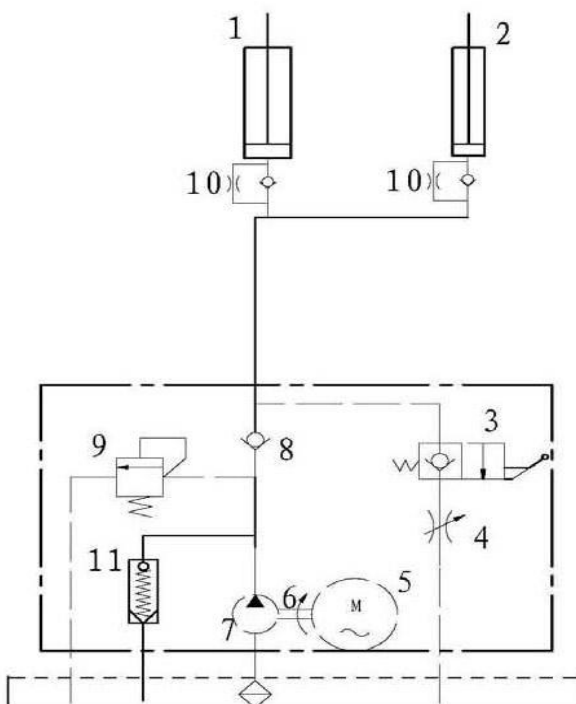
Annex2 , Overall diagram



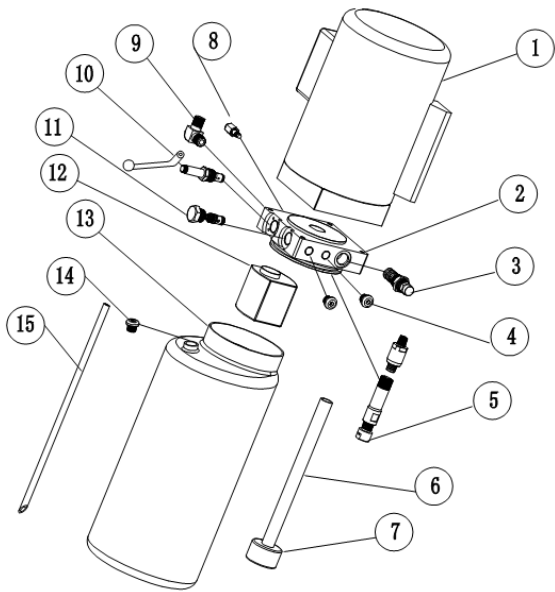
Annex3 , Diagram for ground fixing



Annex 4 , Hydraulic working system



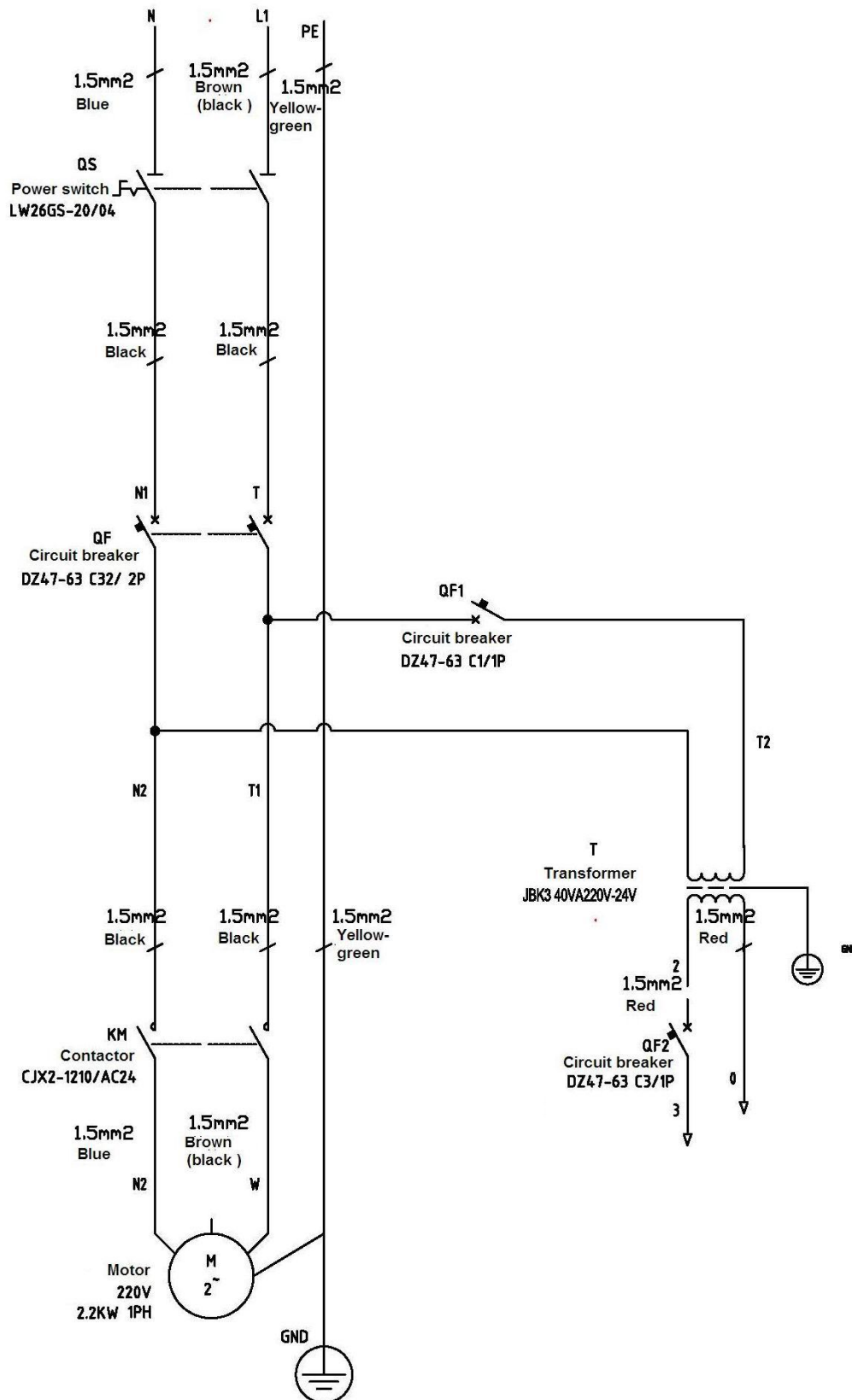
1. Main cylinder
2. Assistant cylinder
3. Manual unloading valve
4. Throttle valve
5. Motor
6. Coupling
7. Gear pump
8. Single-way valve
9. Overflow valve
10. Anti-surge valve
11. Cushion valve



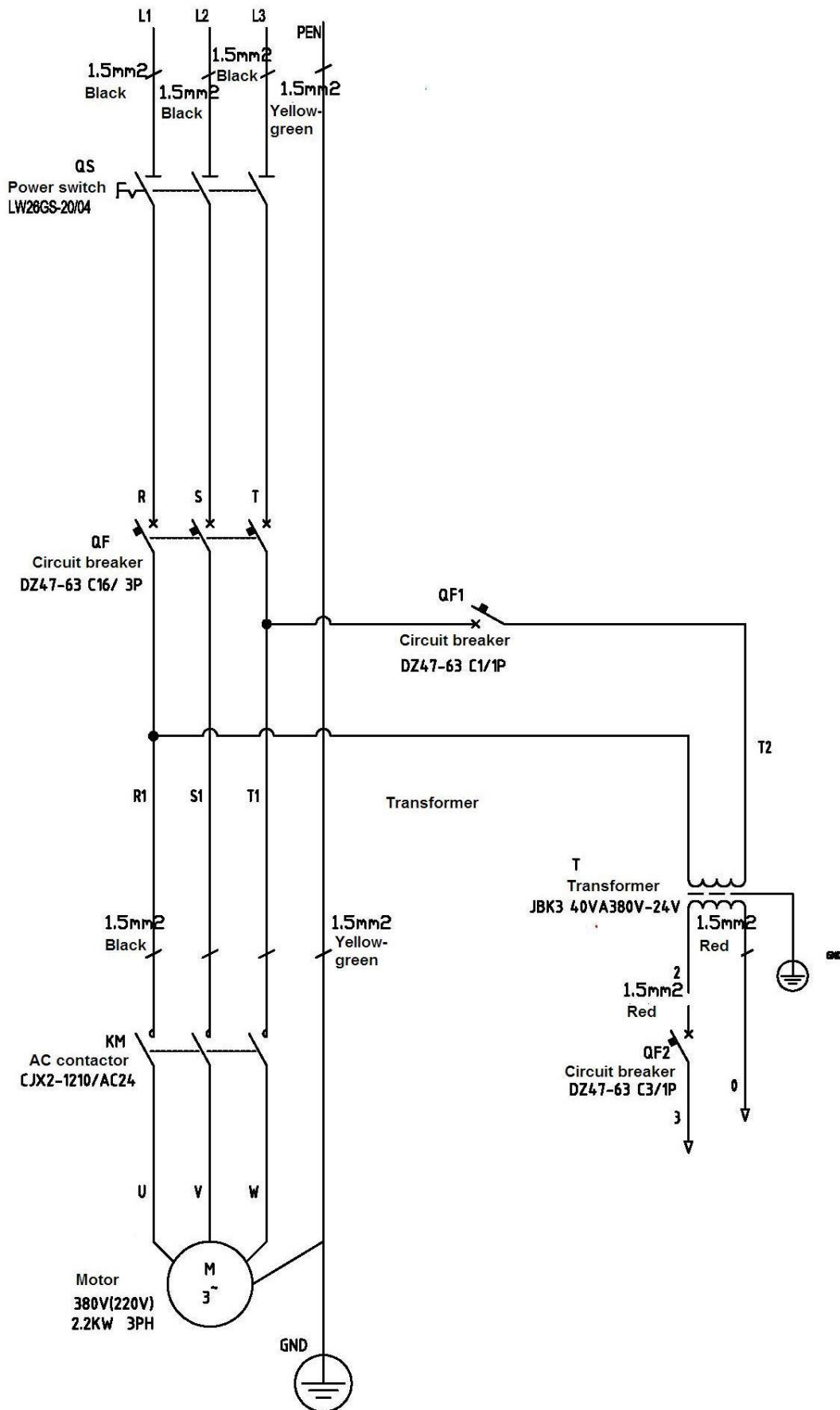
S/N	Description	Qty
1	Motor	1
2	Hydraulic block	1
3	Overflow valve	1
4	Fitting	2
5	Cushion valve	1
6	Absorbing oil pipe	1
7	Oil filter	1
8	Throttle valve	1
9	Oil hose tie-in	1
10	Manual unloading valve	1
11	One way valve	1
12	Gear pump	1
13	Oil tank	1
14	Oil tank cover	1
15	Oil back pipe	1

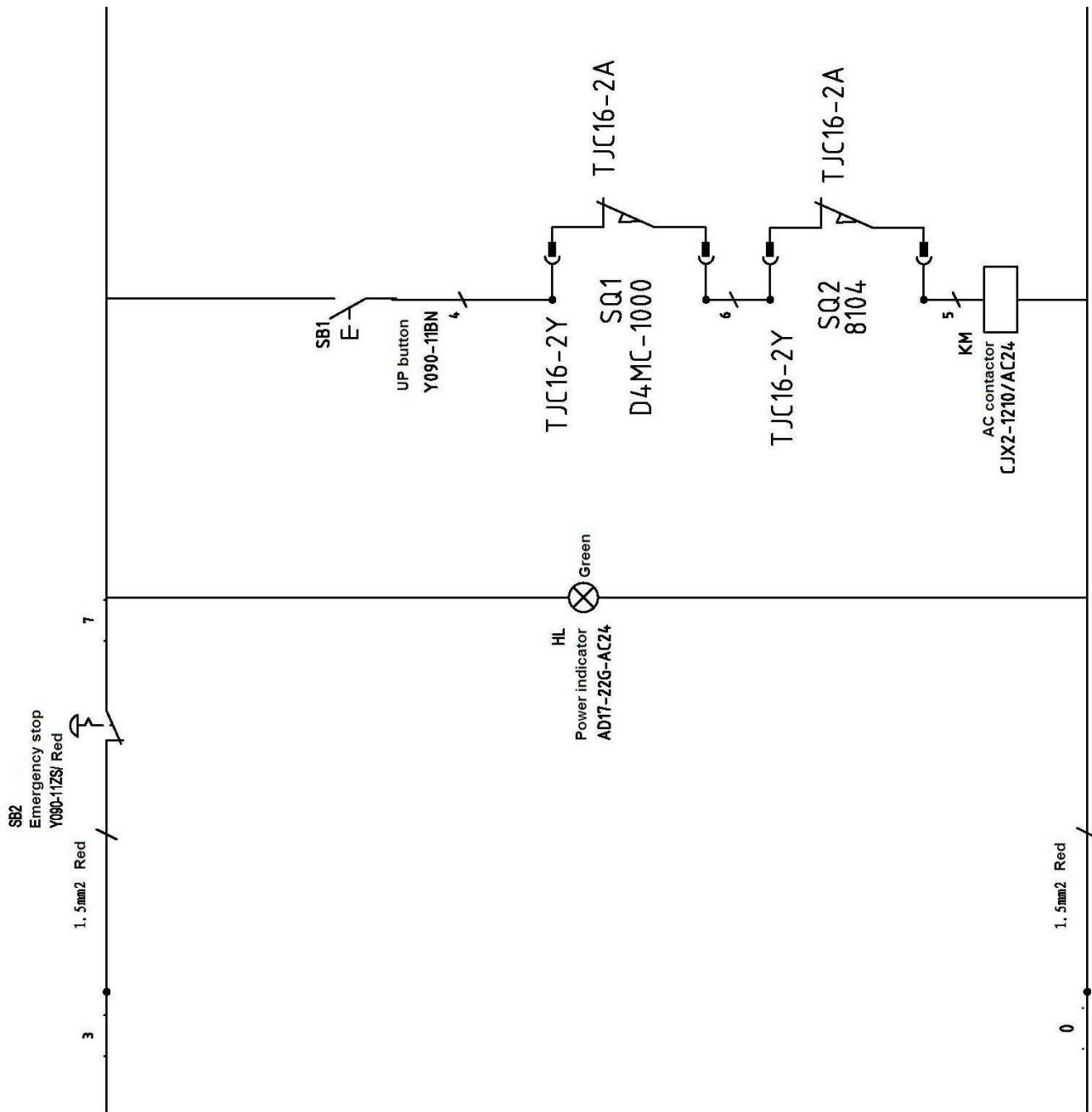
Annex5 , Wiring diagram

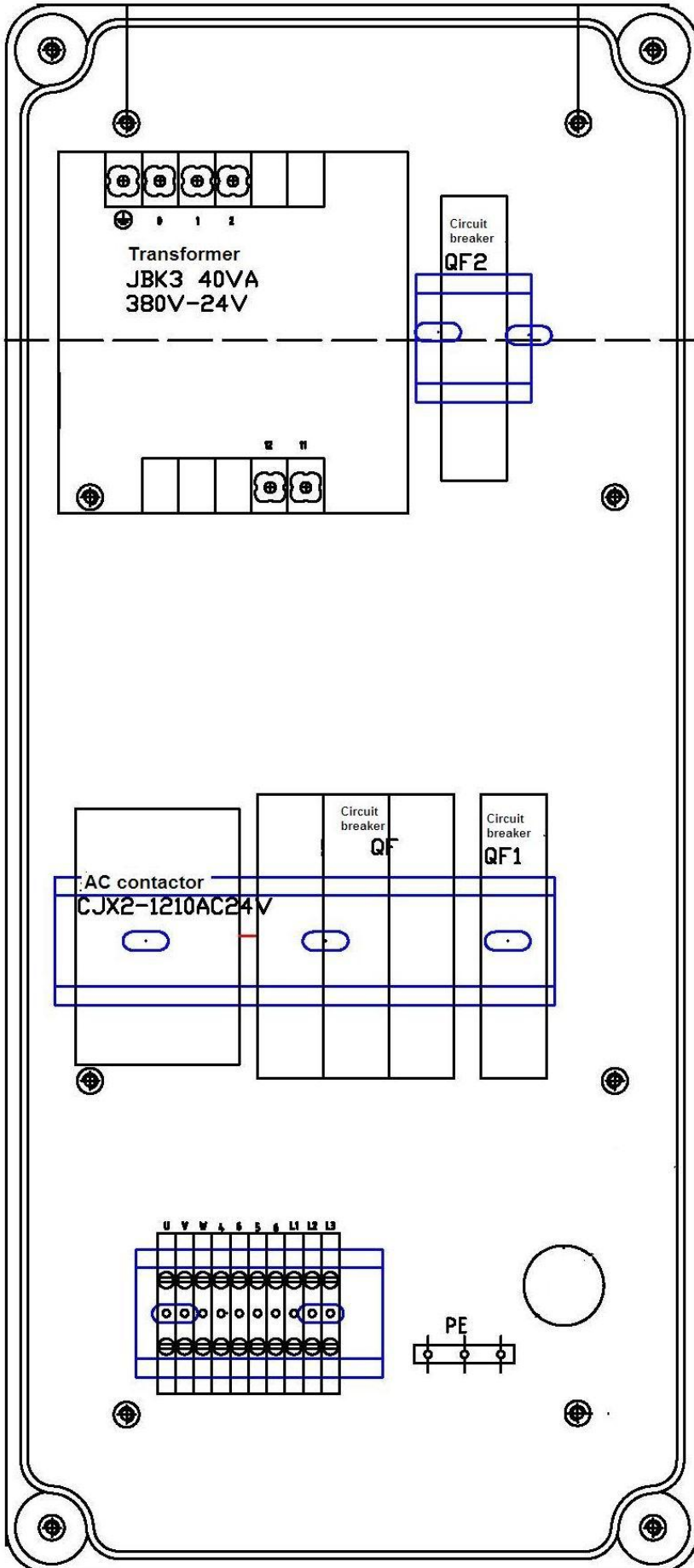
Single phase



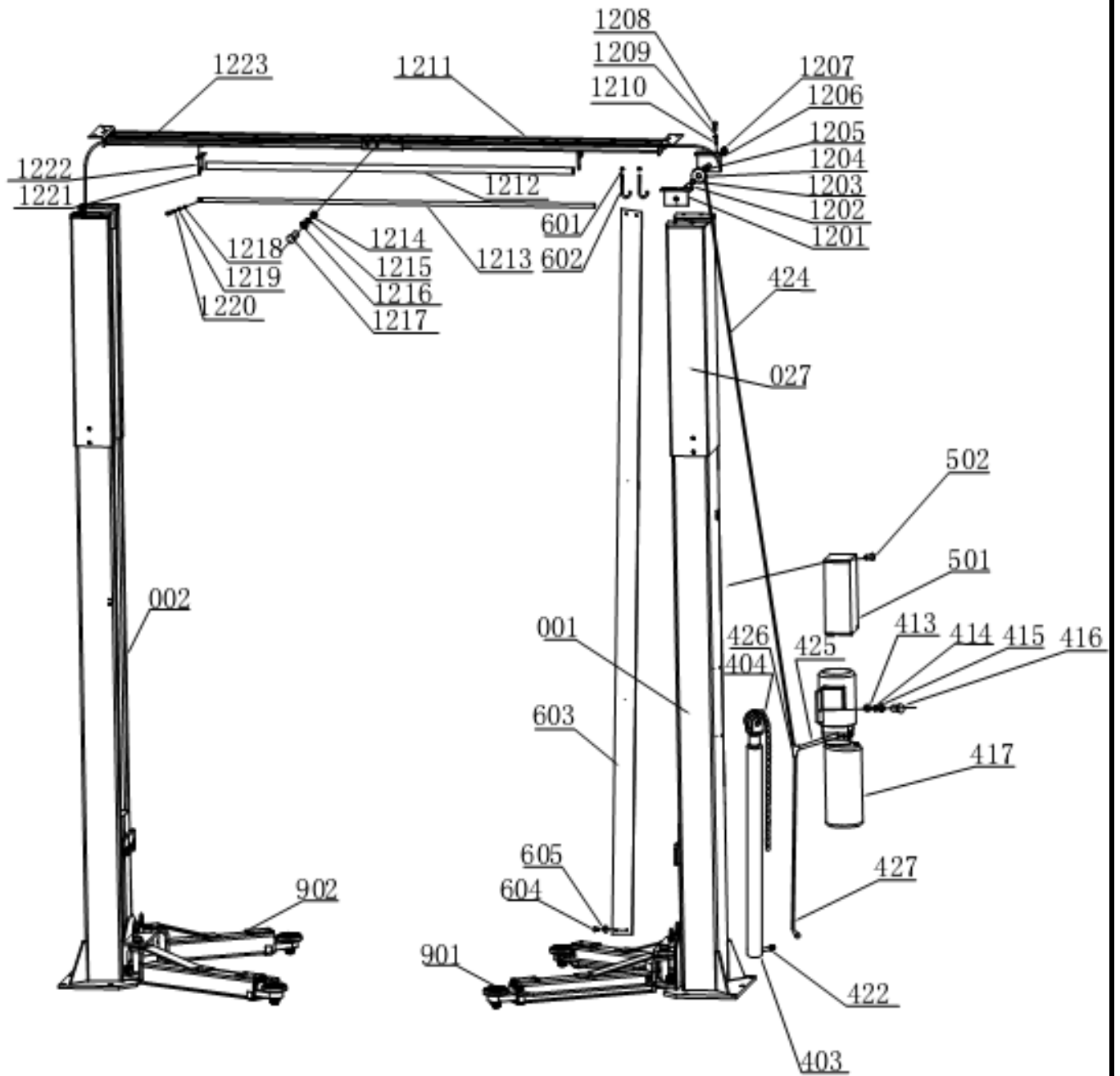
Three phase

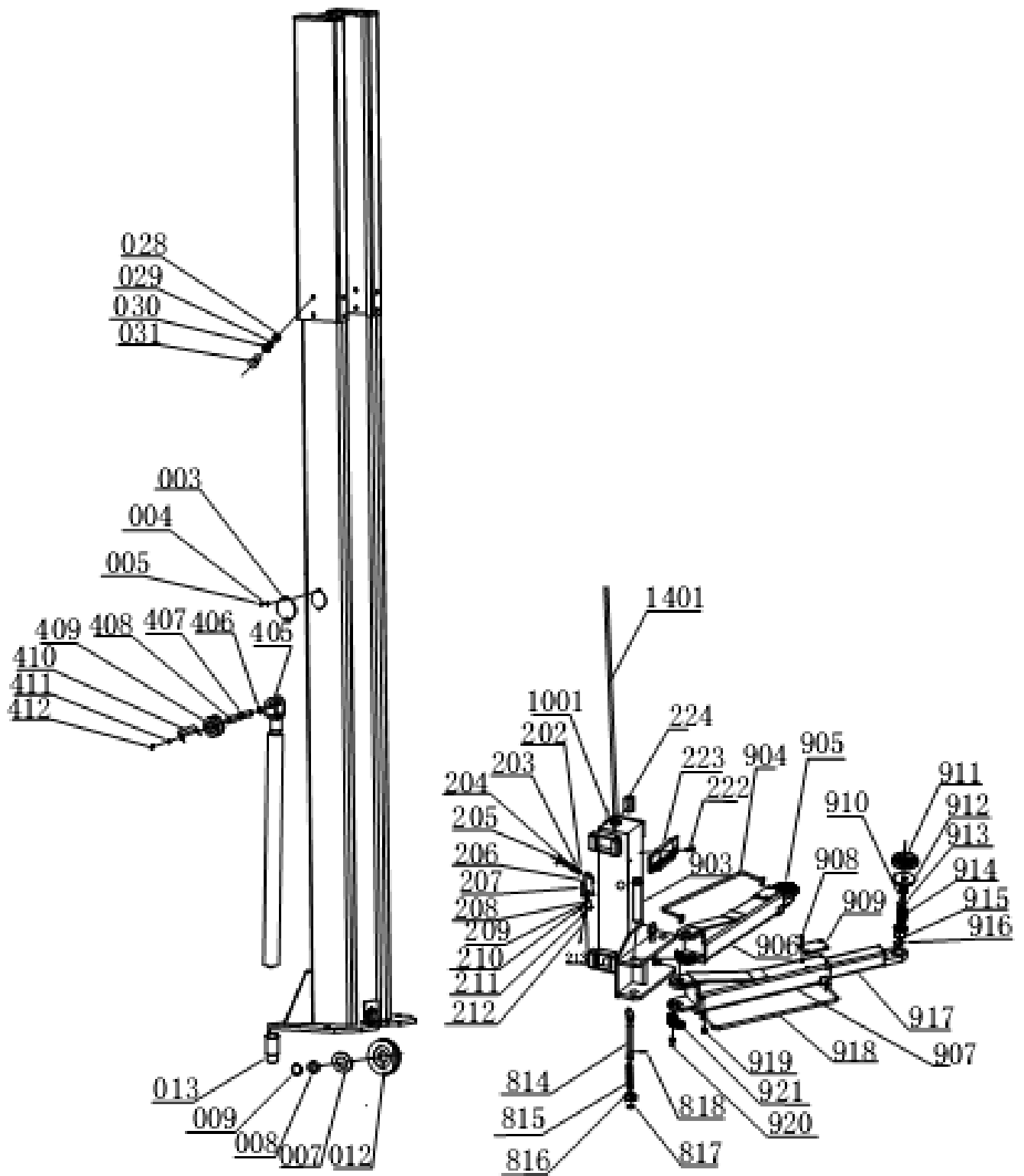






Annex 6 , Separate diagrams for the lift





VEHICLE LIFT SPECIALIST

S/N	Material No.	Name	Drawing#/size	Qty	Description	Note
1	618001	Post 1	EE-6214-A1-B1	1	welding	
2	618002	Post 2	EE-6214-A2-B2	1	welding	
3	401014	Cover plate	EE-6254A-A1-B4	2	Q235A	
4	217001	Flat washer	Φ6	4	Standard	
5	215003	Cross bolt	M6*8	4	Standard	
12	241063	Down sheave	EE-6254E-A1-B2	2	45#	
7	220001	Bushing	SF-1 2512	2	Standard	
8	241014	Washer	EE-6254A-A1-B2	4	Q235A	
9	219002	Circlip	GB/T894.1-1986 Φ25	2	Standard	
13	241071	Height adapter	EE-6254E-A11	4	welding	
27	605008	Extending post	EE-6214A-A20	2	welding	
28	216007	Nut	GB/T14-2000 M14	16	Standard	
29	217006	Flat washer	Φ14	16	Standard	
30	218001	Spring washer	GB/T93-1987 Φ14	16	Standard	
31	212013	Bolt	GB/T5780-2000 M14*25	16	Standard	
1201	405022	Supporting bracket (left)	EE-6214A-A22-B1	2	Q235A	
1202	405023	Up sheave shaft	EE-6214A-A22-B2	2	45#	
1203	220002	Bushing	SF-1 2518	4	Standard	
1204	241008	Up sheave	EE-6254A-A3-B1	4	45#	
1205	217007	Flat washer	GB/T95-1985 Φ20	4	Standard	
1206	405024	Supporting bracket (right)	EE-6214A-A22-B3	2	Q235A	
1207	216009	Hex nut	GB/T41-1986 M20	4	Standard	
1208	217005	Flat washer	GB/T95-1985 Φ12	8	Standard	
1209	218005	Spring washer	GB/T93-1987 Φ12	8	Standard	
1210	212012	Bolt	GB/T5780-2000 M12*30	8	Standard	
1211	605006	Beam (outside)	EE-6214A-A21-B4	1	welding	
1212	405021	Long rod	EE-6254A-A21-B5	1	Q235A	
1213	243012	Protection cover	EE-6214A-A21-B3	1	Foam	
1214	216007	Nut	GB/T41-2000 M14	5	Standard	
1215	217006	Flat washer	GB/T95-85 Φ14	5	Standard	
1216	218001	Spring washer	GB/T98-1987 Φ14	5	Standard	
1217	212013	Outside hex bolt	GB/T93-2000 M14*25	5	Standard	
1218	216003	Nut	GB/T93-1987 M6	1	Standard	
1219	217001	Flat washer	GB/T93-1987 Φ6	1	Standard	
1220	212011	Outside hex bolt	GB/T95-2000 M6*30	1	Standard	
1221	215004	Cross round head bolt	M6*12	2	Standard	
1222	605004	Supporting bracket (for	EE-6214A-A21-B1	1	welding	
1223	605005	Beam (Inside)	EE-6214A-A21-B2	1	welding	
1001	618003	Carriage	EE-6254-A7-B8	2	welding	
202	216009	Nut	M20	2	Standard	
203	218009	Spring washer	Φ20	2	Standard	
204	241011	Bushing	EE-6254A-A7-B3	2	Q235A	

VEHICLE LIFT SPECIALIST

S/N	Material No.	Name	Drawing#/size	Qty	Description	Note
205	212010	Bolt	M20*45	2	Standard	
206	241015	Safety lock (welding)	EE-6254A-A7-B4-C1	2	welding	
207	241024	Haul spring	EE-6254A-A7-B2	2	Standard	
208	401030	Sliding plate	EE-6254A-A7-B4-C1-D5	2	Q235A	
209	241031	Spacer	EE-6254A-A7-B4-C1-D4	2	Q235A	
210	211002	Inside hex bolt	M8*35	2	Standard	
211	241023	Spring (for adjusting)	EE-6254A-A7-B4-C2	2	Standard	
212		Steel cable assembly	EE-6254A-A7-B4-C3	2	Assembly	
213	214007	Sunk head bolt	M6*50	2	Standard	
814	241007	Pulling rod	EE-6254E-A2-B1	4	welding	
815	255002	Compression spring	EE-6214F-A3-B5	4	Standard	
816	254015	Teeth block	EE-6214F-A3-B3	4	Q235A	
817	219012	Circlip	Φ22	4	Standard	
818	224054	Elastic pin	5*35	4	Standard	
222	214003	Cross flat head bolt	M8*25	4	Standard	
223	242002	Rubber pad	EE-6254A-A7-B10	2	Rubber	
224	242003	Slider	EE-6254A-A7-B1	16	Nylon 1010	
1401	243005	Steel cable	EE-6214A-A6	2	Assembly	L=10840mm
901		Short arm	EE-6254E-A8	1	Assembly	
902		Long arm	EE-6254E-A7	2	Assembly	
903	241069	Pin	EE-6254E-A12	4	Assembly	
904	603018	Short fender	EE-6254S-A8-B2	2	welding	
905	603008	Long tensile arm	EE-6254E-A7-B3	2	welding	
906	603007	Long arm	EE-6254E-A7-B1	2	welding	
907	603013	Short arm	EE-6254E-A8-B1	2	welding	
908	214019	Cross flat head bolt	M8*10	16	Standard	
909	242018	Rubber pad	EE-6254E-A7-B2	4	Rubber	
910	219014	Circlip	Φ26	4	Standard	
911	242014	Rubber tray pad	EE-6254E-A7-B4-C4	4	Rubber	
912	241070	Tray assembly	EE-6254E-A7-B4-C1	4	welding	
913	219015	Circlip	Φ38	8	Standard	
914	241065	Threaded nut	EE-6254E-A7-B4-C2	4	Q235A	
315	241064	Thread nut (in)	EE-6254E-A7-B4-C3	4	Q235A	
916	219009	Circlip	GB/T894.1-1986 Φ50	4	Standard	
917	603010	Short tensile arm	EE-6254E-A8-B2	2	welding	
918	603018	Short arm fender	EE-6254S-A9-B3	2	welding	
919	211001	Inside head bolt	M8*12	8	Standard	
920	211074	Inside hex bolt	M10*20	12	Standard	
921	254016	Semi-round teeth block	EE-6214F-A4-B3	4	Q235A	
403	241002	Oil cylinder	EE-6254A-A5-B-4	2	Assembly	
404	241003	Chain leaf	LH1234-127	2	Assembly	
405	601005	Chain wheel holder	EE-6254A-A5-B1	2	welding	
406	219002	Circlip	GB/T894.2-1986 Φ25	2	Standard	
407	241009	Chain wheel shaft	EE-6254A-A5-B2	2	45#	
408	220003	Bushing	SF-1 2548	2	Standard	
409	241010	Chain wheel	EE-6254A-A5-B3	2	45#	
410	241051	Baffle	EE-6254A-A5-B11	2	Q235A	
411	218002	Spring washer	M6	4	Standard	
412	211028	Inside hex bolt	M6*20	4	Standard	

VEHICLE LIFT SPECIALIST

S/N	Material No.	Name	Drawing#/size	Qty	Description	Note
413	216005	Nut	M10	4	Standard	
414	218004	Spring washer	M10	4	Standard	
415	217004	Flat washer	Φ10	4	Standard	
416	212008	Outside hex bolt	M10*30	4	Standard	
417		Hydraulic pump	EE-6254A-A5-B6	1	Assembly	
422	243013	Tie-in	EE-6214A-A5-B4	2	Assembly	
424	243011	Oil hose	EE-6214A-A5-B5	1	Assembly	L=9550mm
425	243010	Oil hose	EE-6214E-A5-B2	1	Assembly	L=220mm
426	243015	Three-way tie-in	EE-6214A-A5-B2	1	Assembly	
427	243009	Oil hose	EE-6214E-A5-B1	1	Assembly	L=1140mm
501		Electrical system	EE-6254A-A4	1	Assembly	
502	215032	Cross round head bolt	GB/T70.8-1885 M5*12	4	Standard	
601	216003	Nut	M6	8	Standard	
602	241026	Pulling rod	EE-6254A-A1-B6	4	welding	
603	243030	Chain protection	EE-6214A-A1-B5	2	Q235A	
604	217001	Flat washer	Φ6	8	Standard	
605	215003	Cross sunk head bolt	M6*8	8	Standard	

Annex7 Spare part list

Spare parts for the electrical system

S/N	Material No.	Name	Spec.	Unit	Qty	Note
1	321001	Power switch	LW26GS-20/04	Pcs	1	
2	322008	Button	Y090-11BN	Pcs	3	
3	324021	Power indicator	AD17-22G-AC24	Pcs	1	
4	320084	Transformer	JBK3-40VA220V-24V	Pcs	1	Same outlook as item 7
5	320081	Transformer	JBK3-40VA230V-24V	Pcs	1	Same outlook as item 7
6	320085	Transformer	JBK3-40VA240V-24V	Pcs	1	Same outlook as item 7
7	320078	Transformer	JBK3-40VA380V-24V	Pcs	1	
8	320089	Transformer	JBK3-40VA400V-24V	Pcs	1	Same outlook as item 7
9	320079	Transformer	JBK3-40VA415V-24V	Pcs	1	Same outlook as item 7

VEHICLE LIFT SPECIALIST

S/N	Material No.	Name	Spec.	Unit	Qty	Note
10	330004	AC contactor	CJX2-1210/AC24	Pcs	1	
11	327004	Circuit breaker	DZ47-63 C16 /3P	只	1	
12	327002	Circuit breaker	DZ47-63 C32 /2P	Pcs	1	
13	327003	Circuit breaker	DZ47-63 C3 /1P	Pcs	1	
14	327016	Circuit breaker	DZ47-63 C1 /1P	Pcs	1	Same outlook as item 13
15	321003	Limit switch	D4MC1000	Pcs	1	
16	321024	Limit switch	ME8104	Pcs	1	
17	322010	Emergency stop	Y090-11ZS/红	Pcs	1	
18	328004	Control box	190*430*135	Pcs	1	

Spare part for the mechanical part

S/N	Name	Drawing#/size	Qty	Description	Note
1	Height adapter	EE-6254E-A11	4	Welding	L=130mm
2	Pulling rod	EE-6254E-A2-B1	4	Welding	
3	Pressure spring	EE-6214F-A3-B5	4	Standard	
4	Teeth block	EE-6214F-A3-B3	4	Q235A	
5	Circlip for the shaft	Φ22	4	Standard	
6	Rubber pad	EE-6254A-A7-B10	2	Rubber	
7	Slider	EE-6254A-A7-B1	16	Nylon 1010	
8	Steel cable	EE-6214A-A6	2	Assembly	L=10840mm

VEHICLE LIFT SPECIALIST

9	Rubber pad	EE-6254E-A7-B2				4	Rubber	
10	Rubber pad for the tray	EE-6254E-A7-B4-C4				4	Rubber	
Model No.	A (mm)	B (mm)	C (mm)	D (T)	E (T)	F (T)	G (T)	
13 EE-6213	Short oil hose 2400	2900	100	1.5	1.3	1.3	1.0	1 Assembly L=9550mm
15 EE-6214	Chain protection 2400	2900	100	2.5	1.7	1.7	2.3	1 Assembly L=220mm
16	Pulling rod			EE-6254A-A1-B6				4 Standard L=1140mm

Annex 8 , Size and weight requirements for the vehicle

