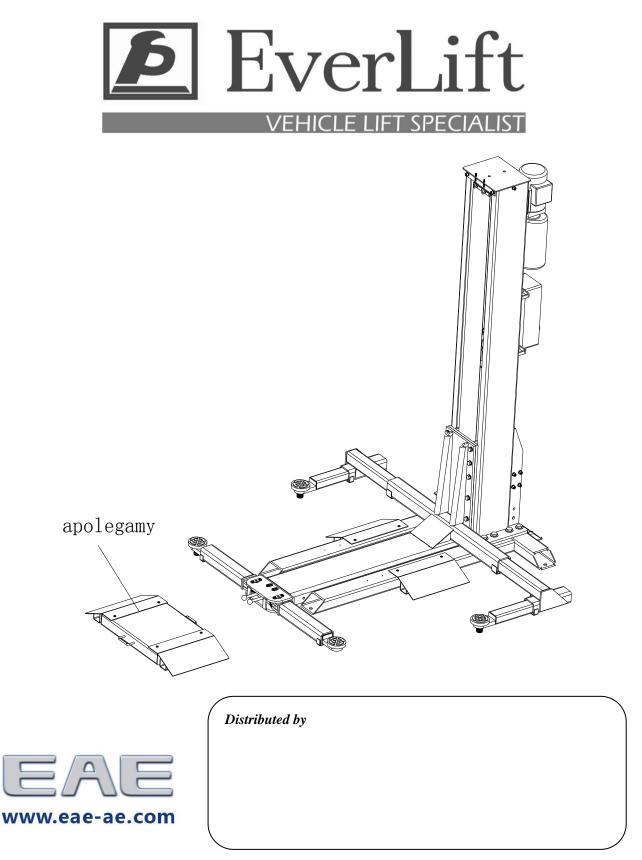
Model No. EE-612FE

Portable single post lift Electrical Release Lifting Capacity 2500KG Installation, Operation and Parts Manual



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 single post 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 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.

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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.



OVERVIEW OF THE LIFT

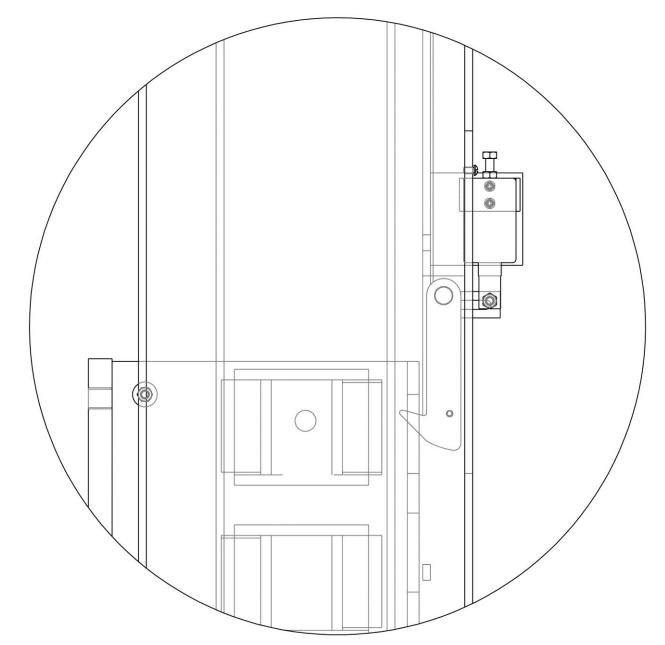
2.1 General descriptions

This single post lift is composed of base frame, post, carriage, lifting arms, cylinders, portable kit and motor unit, etc.

It 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 hook will be automatically engaged. Therefore, no slipping will happen in case the hydraulic system breaks down.

Safety structure

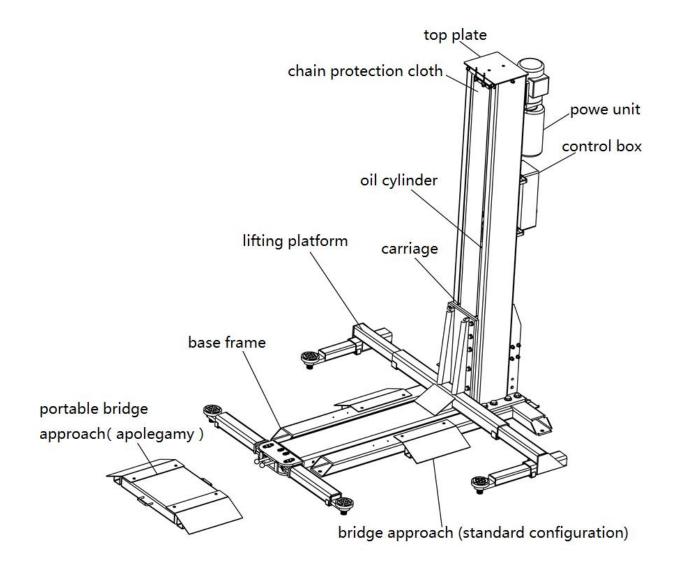


2.2 Technical data

| Model | Lifting capacity | Full rise time | Full rise | Height | Width | Min height |
|----------|------------------|----------------|-----------|--------|--------|------------|
| EE-612FE | 2500kg | 50 Sec | 1800mm | 2600mm | 2006mm | 120mm |

5 EverLift

2.3 Construction of the lift



INSTALLATION INSCRUCTIONS

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.
- \checkmark 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 used 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 post stand vertical to the ground. No slanting.
- 3.2.2 Connections of oil hose and steel cable must be firm in order to avoid the looseness of steel cable and leakage of oil hose.
- 3.2.3 All bolts should be firmly screwed up.

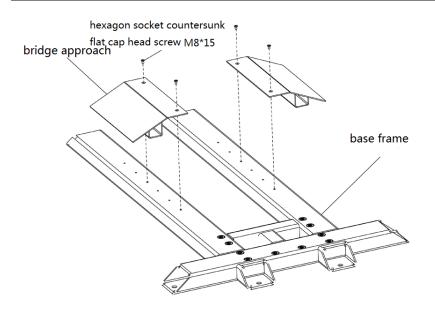
3.2.4 Do not place any vehicle on the lift in the case of trial running.

3.3 Installation

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

Step 2: Fix drive-on ramp with the base frame.

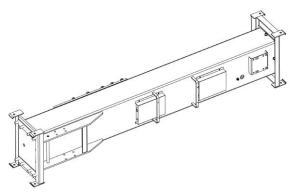
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Step 3: Move the lifting arms and control box out from the post. Suspend the post by lifting equipment and then dismantle the post from its packing frame

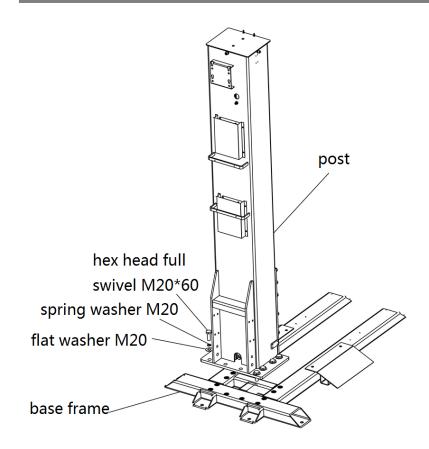
Attention : Please pay special attention not to let the post fall down for it may cause casualty or bring damages to the accessories

fixed in the post.



Step 4: Fix the post onto to the base frame and the portable kit connector

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Step 5: Install the lifting platforms and lifting arms

1. Fix the lifting platform onto the carriage.

5 EverLift Installation, Operation and Parts Manual EE-612FE flat washer M16 spring washer M16 hex head full swivel screw M16*45 2.Connect lifting arms and the lifting platform. hex socket cylinder head M8*12 hex socket cylinder head M8*12 lifting hexagon socket countersunk

Step 6: install the electromagnet and safety hook:

flat cap head screw M8*15

1, here is the installation diagram for electromagnet and safety hook. There are 2 places need to install the

Installation, Operation and Parts Manual EE-612FE

electromagnet and safety hook.

Attention: the electromagnet and safety hook are already well installed and the wires are complete before delivery.

2, spare parts needed:

2 pcs of inside hex cap screw M6*35

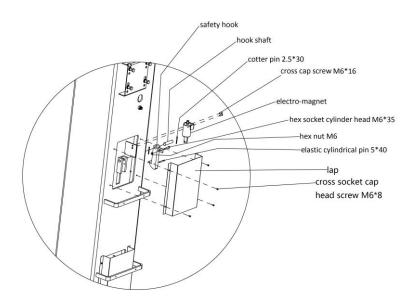
8 pcs of cross head cap screw M6*8

- 2 pcs of hex nut M6
- 2 pcs of electromagnets
- 2 pcs of cover plate
- 2 pcs of elastic pin M5*40
- 4 pcs of cross head cap screw M6*16
- 4 pcs of cotter pin 2.5*30

2 pcs of hook shaft

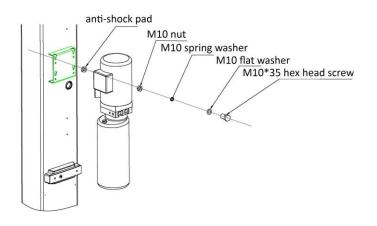
2 pcs of hook assembly

All these parts are well installed before delivery.



Step 7: Mount the power unit onto the post.

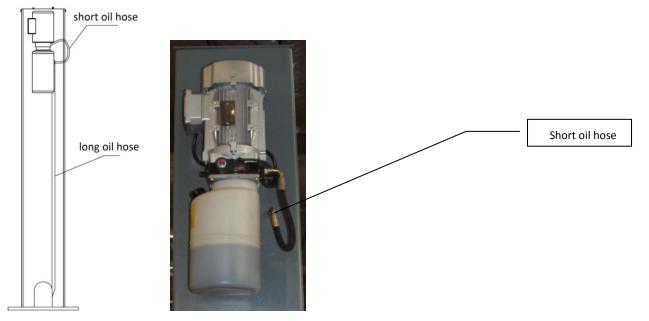
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Step 8: Connect oil hoses.

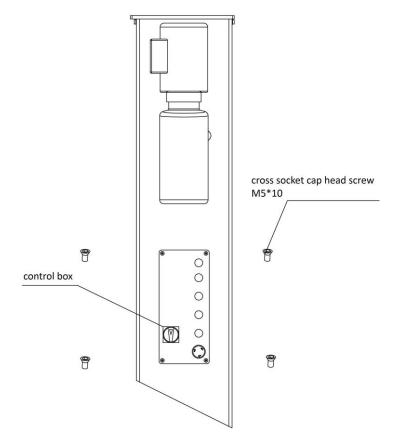
Connect the oil hose as per the following diagram.

Make sure the oil hose connector is clean before making the connection.



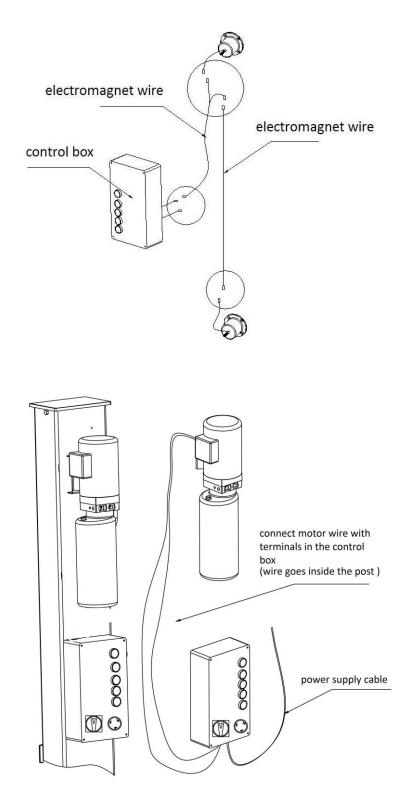
Installation, Operation and Parts Manual EE-612FE

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



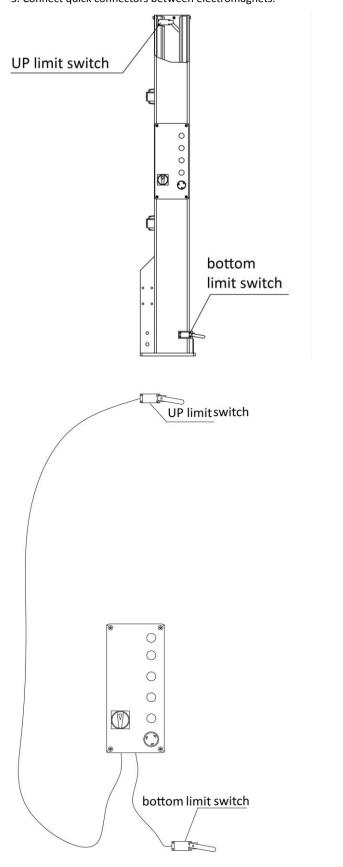
Installation, Operation and Parts Manual EE-612FE

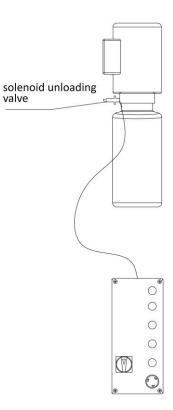
Step 10: Fix limit switches into the power side post.



Installation, Operation and Parts Manual EE-612FE

3. Connect quick connectors between electromagnets.





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Step 11: Fix chain protection clothes.

Install the protective cloth:

spare parts needed:

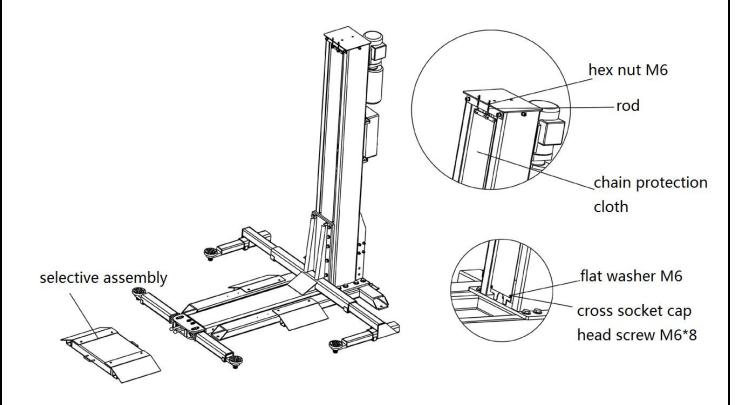
4 pcs of Hex nut

2 pcs of pulling rod of protective cloth

2 pcs of cross cap screw M6*8

2 pcs of Spring washer M6

2, after the installation of protective cloth, fix well the top plate.



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Step 12: Fill with hydraulic oil.

The volume of oil tank is 8L.To insure the lift work normally, the amount of oil in it should reach 4/5 of the tank's total volume. 32#anti-abrasion hydraulic oil for winter, 46# for summer.

Step 13: 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.

3.4 Items to be checked after installation.

| S/N | Check items | YES | NO |
|-----|---|-----|----|
| 1 | Is the post vertical to the floor? | | |
| 2 | Is the oil hose well connected? | | |
| 3 | Is the steel cable well connected? | | |
| 4 | Are all lifting arms well fixed? | | |
| 5 | Are electrical connections right? | | |
| 6 | Are the rest joints firmly screwed? | | |
| 7 | 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.

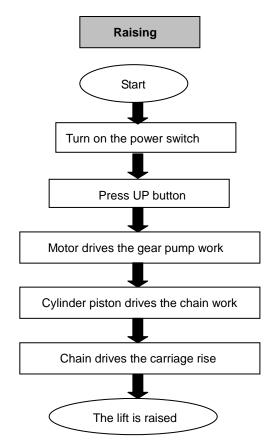
4.1.3 The machine shall not lift or lower an automobile if its center of gravity is not positioned midway of the lifting arms. Otherwise, the EverLift as well as our dealers will not bear any responsibility for any consequence resulted thereby.

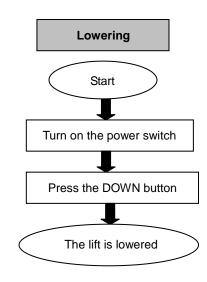
4.1.4 Operators and other personnel concerned should stand in a safety area during lifting and lowering process.

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.

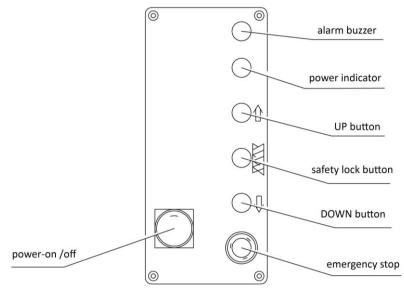
4.1.6. Make sure the safety lock of the lift is engaged before start working under the vehicle and no people under the vehicle during lifting and lowering process.

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 car on smooth and solid ground and then move the lift with its lifting platform located beneath the car.

3. Adjust the lifting arms until they reach the supporting positions of the vehicle and make sure the gravity of vehicle located mid way four lifting arms.

4. Connect the power supply as per requirements on the nameplate attached, and switch on. Press the "UP" button on the control box until pads of lifting arms touched the prop-position of vehicle.

5.Keep on raising the vehicle to let it have a bit clearance from the ground and check again its stability.

6.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 which releases the safety lock. The lift lowers.

3. After the 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

TTENTION: 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 |
|--|--|---|
| | Abrasion exists on inside surface of the post. | Grease the inside of the post. |
| Abnormal noise | Trash in the post. | Clear the trash |
| | The wire connection is loose. | Check and make a good connection. |
| Motor does not run and will not rise | The motor is blown. | Replace it. |
| will not rise | The limit switch is damaged or the wire connection is loose. | Connect it or adjust or replace the limit switch. |
| | The motor run reversely. | Check the wire connection. |
| | Overflow valve is loose or jammed. | Clean or adjust it. |
| Motor runs but will not | The gear pump is damaged. | Replace it. |
| raise | 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. |
| | Solenoid valve fails to work well. | Clean or replace it. |
| | Steel cable is loose or not with same tightness | Check and adjust the tightness. |
| | 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. |
| Raising too slow | 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 post is not well greased. | Add grease. |
| | The throttle valve jammed. | Clean or replace. |
| | The hydraulic oil is dirty. | Change the oil. |
| Lowering too slow | 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. |

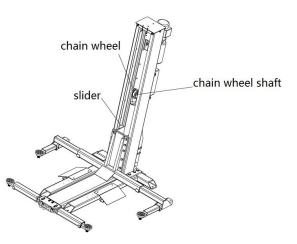
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MAINTENANCE

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 ARE NEEDED TO BE LUBRICATED

| S/N | Name |
|-----|-------------------|
| 1 | chain wheel shaft |
| 2 | slider |
| 3 | chain wheel |



6.1. Daily checking items before operation

The user must perform daily check. Daily check of safety lock system in 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 bolt s 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 users strictly follow the above maintenance requirements, the lift will keep in a good working condition and meanwhile accidents could be avoided to a large extent.

ANNEX

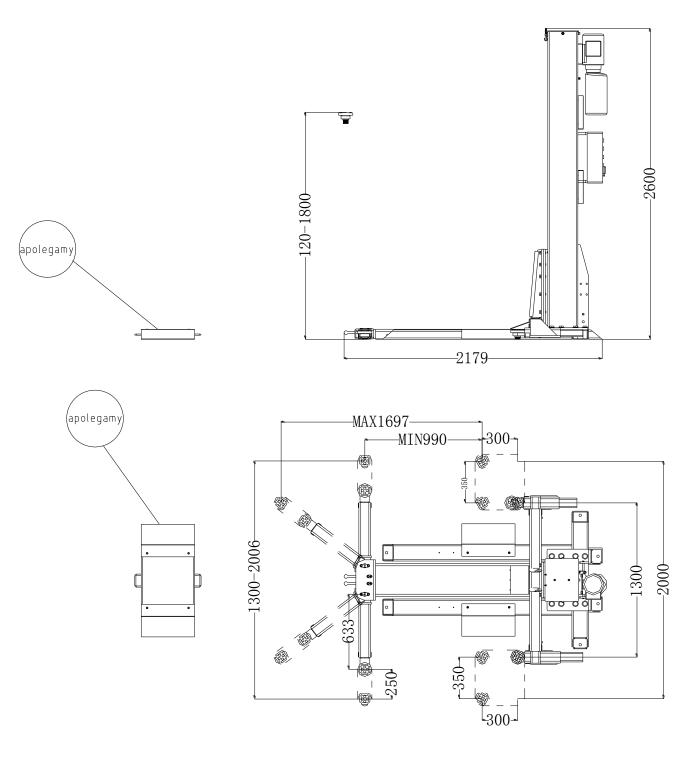
Annex 1, Packing List of the whole lift

| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-------|-------------------------|-------------------------------|-------------|-----|--------------|------|
| 1 | 615022101 | Base frame(protable) | 612E-A1 | 1 | Assembly | |
| 2 | 615022102 | Post | 612E-A2 | 1 | Assembly | |
| 3 | 615022004 | Carriage | 612E-A3 | 1 | Assembly | |
| 4 | 615022005 | Lifting platform | 612E-A4 | 1 | Assembly | |
| 5 | 615022011 | Bridge approach (apolegamy) | 612E-A8 | 1 | Assembly | |
| The o | carton includes the fol | lowing | | | | |
| 1 | 201102055 | Hex head full swivel screw | M20*60 | 10 | Standard | |
| 2 | 204101011 | Flat washer | D20 | 10 | Standard | |
| 3 | 204201009 | Spring washer | D20 | 10 | Standard | |
| 4 | 420220020 | Chain protection cloth | 612E-A7 | 1 | Assembly | |
| 5 | 201102059 | Hex head full swivel screw | M16*45 | 10 | Standard | |
| 6 | 204101009 | Flat washer | D16 | 10 | Standard | |
| 7 | 204201010 | Spring washer | D16 | 10 | Standard | |
| 8 | 410010051 | Rod of chain protection cloth | 6254E-A1-B5 | 2 | Zinc-plating | |
| 9 | 203101004 | Hex nut | M6 | 4 | Standard | |
| 10 | 202101027 | Cross socket cap head screw | M6*8 | 2 | Standard | |
| 11 | 204101004 | Flat washer | M6 | 2 | Standard | |
| 12 | 201102020 | Hex head full swivel screw | M10*35 | 4 | Standard | |
| 13 | 203101006 | Hex nut | M10 | 4 | Standard | |
| 14 | 204201005 | Spring washer | M10 | 4 | Standard | |
| 15 | 204101006 | Flat washer | D10 | 4 | Standard | |
| 16 | 420040010 | Anti-shock pad | 6254E-A23 | 4 | Rubber | |
| 17 | 615004003C | Lifting tray | 6254E-A7-B4 | 4 | Assembly | |
| 18 | 624001042B | Short oil pipe | | 1 | Assembly | |

E EverLift

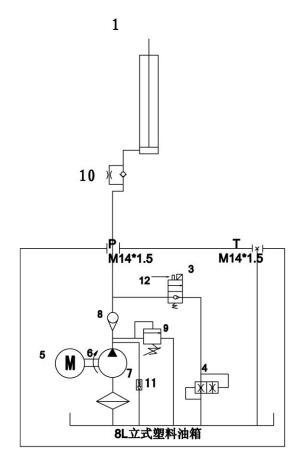
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Annex2, Overall diagram

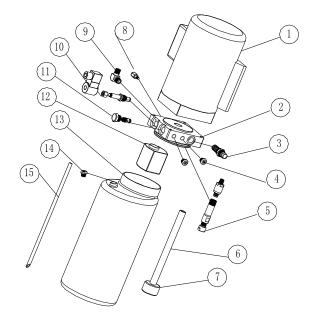


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Annex 3, Hydraulic working system



Drive oil cylinder
Solenoid unloading valve
Throttle valve
Motor
Coupling
Gear pump
Single –way valve
Over-flow valve
Anti-surge valve
Lushion valve
Emergency unloading valve

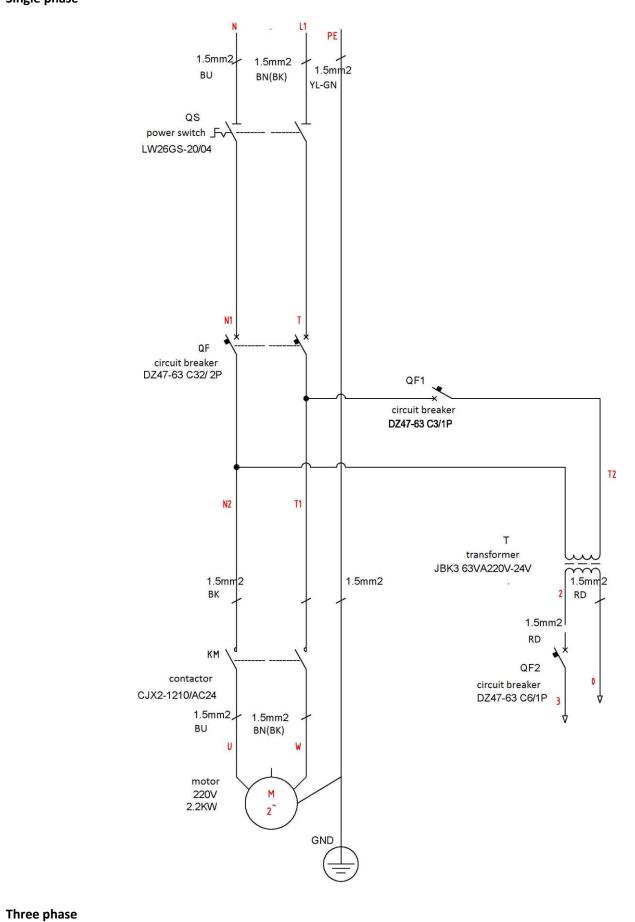


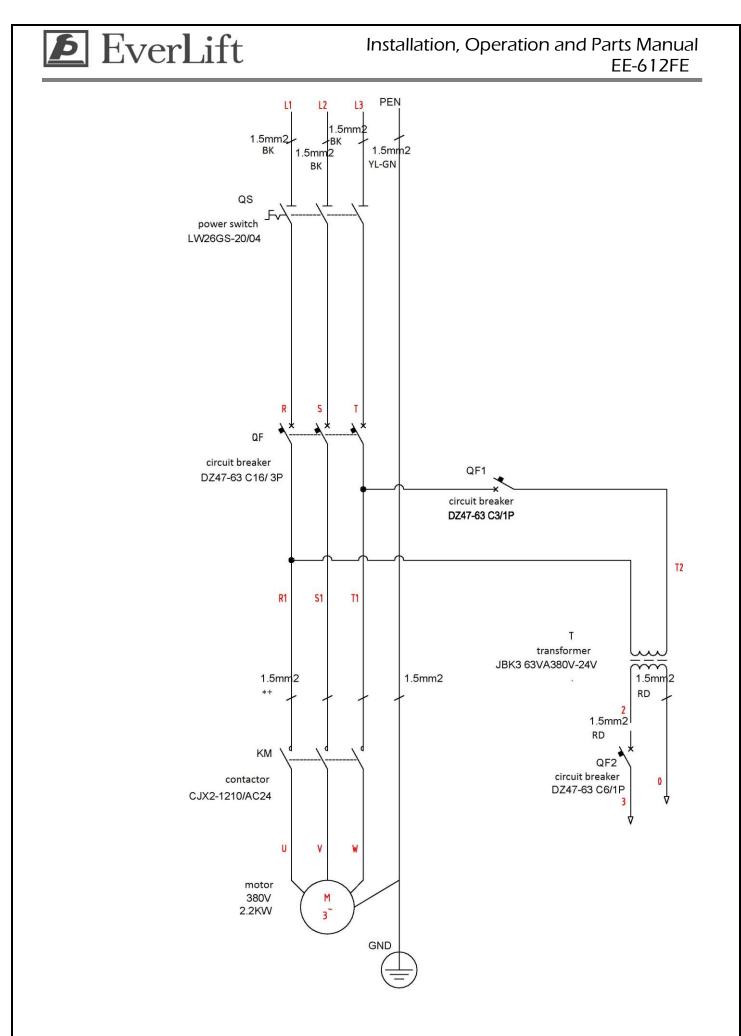
| S/N | Name | Qty |
|-----|--------------------------|-----|
| 1 | Motor | 1 |
| 2 | Hydraulic block | 1 |
| 3 | Overflow valve | 1 |
| 4 | Removable plug | 2 |
| 5 | Cushion valve | 1 |
| 6 | Oil absorbing pipe | 1 |
| 7 | Oil filter | 1 |
| 8 | Throttle valve | 1 |
| 9 | Oil pipe tie-in | 1 |
| 10 | Solenoid 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 |

Annex4, Wiring diagram

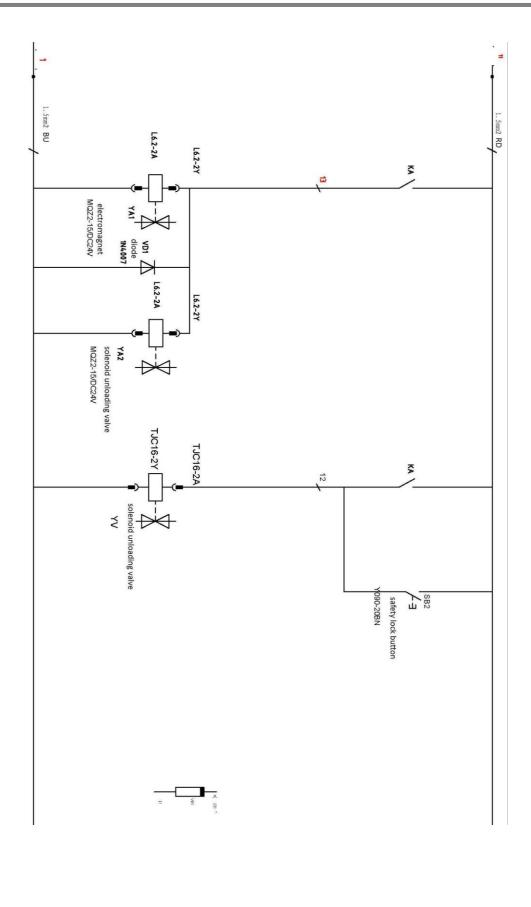
卢 EverLift

Single phase

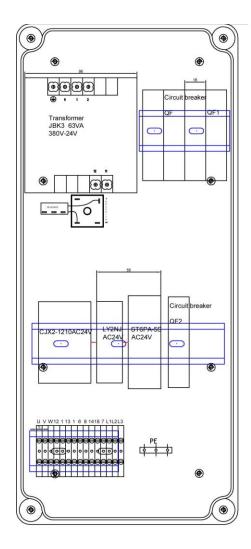


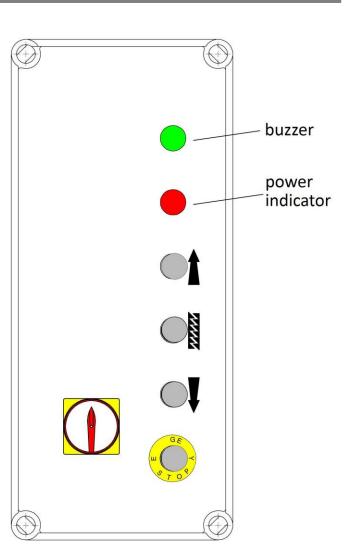


E EverLift Installation, Operation and Parts Manual EE-612FE 1.5mm2 RD 1.5mm2 RD • CJX2-1210/AC24 AC contactor UP button Y090-11BN TJC16-2Y SB2 emergency stop Y090-11ZS/ RD SB1 KM SQ1 8108 TJC16-2Y Ĩ ST6PA-SS/ AC24V TJC16-2A SQ2 8108 DOWN button Y090-11BN KT KI TJC16-2A AD17-22SM/AC24V DOWN II (safety lock) Y090-20BN TJC16-4Y buzzer E SB2 8108 SQ2 T TJC16-4A î relay LY2NJ/AC24 Š MIN A power indicator HL . • 8 GN 1.5mm2 1.5mm2 RD RD bridge rectifier VD 1.5mm2 BU ¥ capacitor 4700uf 50v 1.5mm2 BU 5 ||+ 11

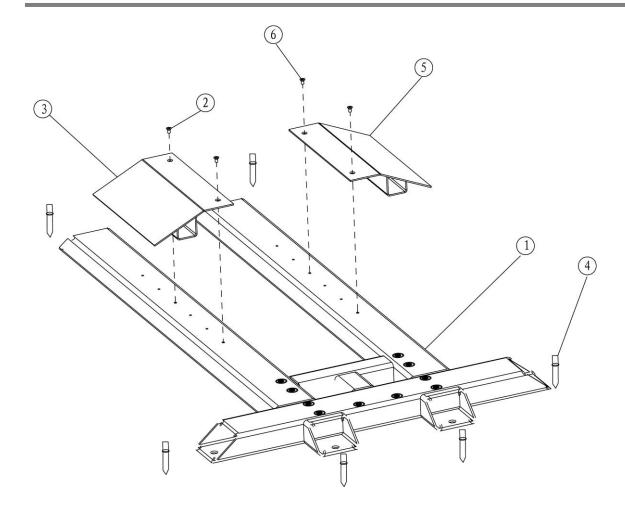


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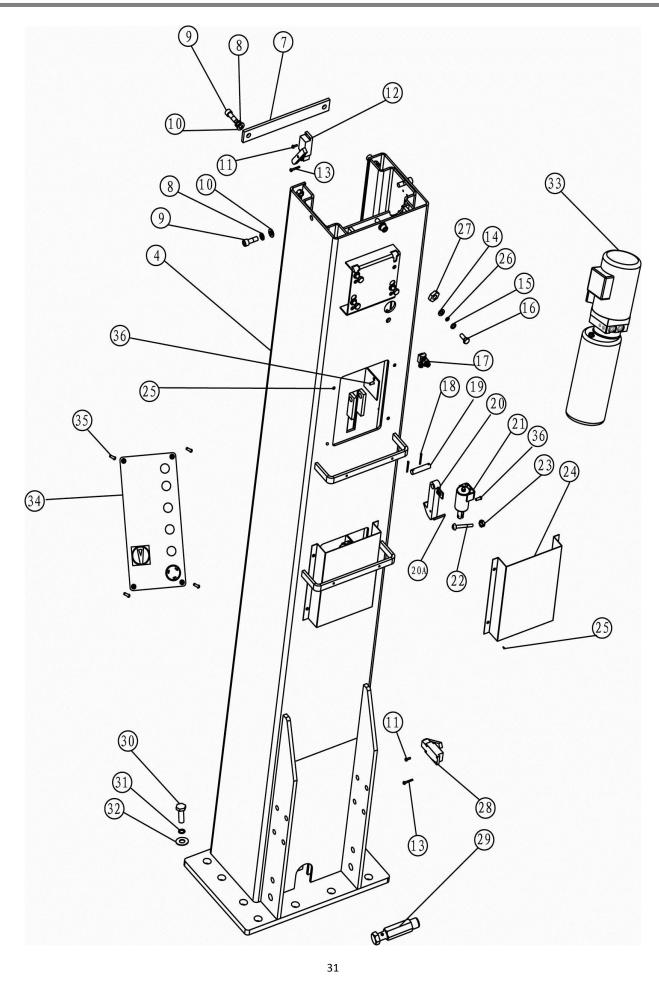




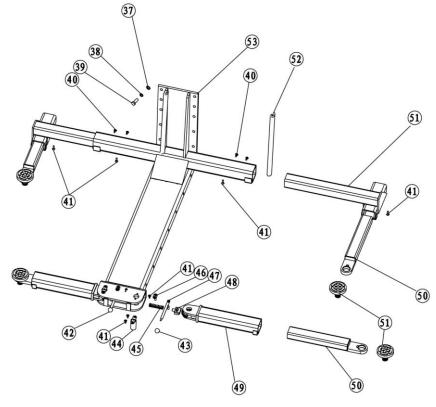
Annex5, Separated drawings for the lift



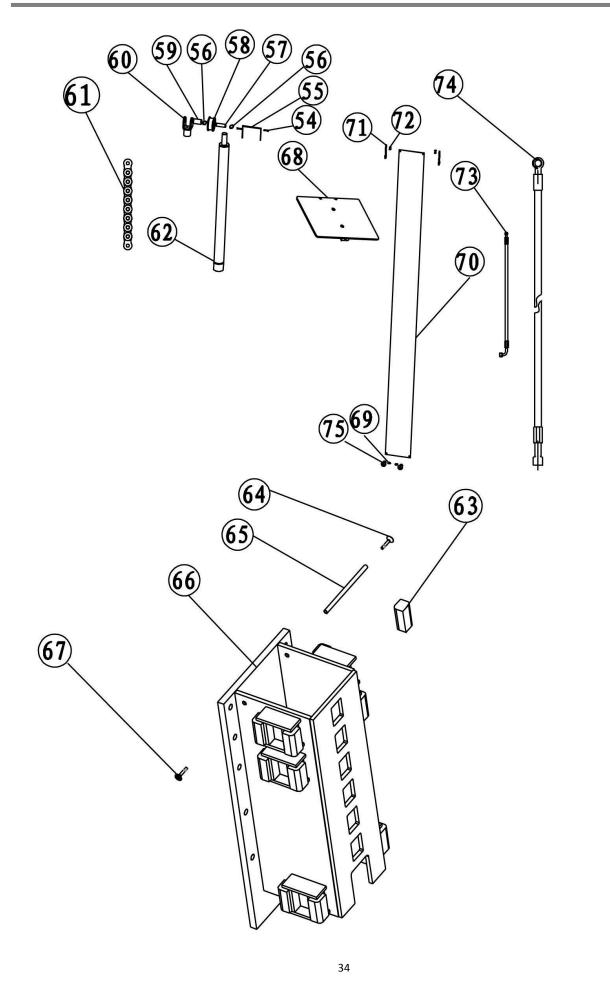
| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-----|------------|--|-------------|-----|----------|------|
| 1 | 614022001 | Base frame (stationary) | 612FE-A1-B1 | 1 | Welded | |
| 2 | 202111005 | Hexagon socket countersunk flat cap head screw | M8*15 | 2 | Standard | |
| 3 | 614022002 | Bridge approach | 612FE-A1-B2 | 2 | Welded | |
| 4 | 201201008 | Expansion bolt | M18*200 | 6 | Standard | |
| 5 | 614022002 | Bridge approach | 612FE-A1-B2 | 2 | Welded | |
| 6 | 202111005 | Hexagon socket countersunk flat cap head screw | M8*15 | 2 | Standard | |



| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-----|------------|-----------------------------|------------|-----|----------------|------|
| 7 | 410222533 | Post (portable type) | 612E-A2-B1 | 1 | Powder-coating | |
| 8 | 204101006 | Spring washer | M12 | 13 | Standard | |
| 9 | 202109053 | Hexagon socket cap screws | M12*35 | 13 | Standard | |
| 10 | 204101007 | Flat washer | M12 | 13 | Standard | |
| 11 | 202101009 | Cross socket cap head screw | M4*14 | 4 | Standard | |
| 12 | 320301011 | Limit switch | TZ8108 | 1 | | |
| 13 | 202101010 | Cross socket cap head screw | M4*25 | 4 | Standard | |
| 14 | 204201005 | Spring washer | M10 | 4 | Standard | |
| 15 | 204101006 | Flat washer | M10 | 4 | Standard | |
| 16 | 201102020 | Hex head full swivel screw | M10*35 | 4 | Standard | |
| 17 | 615022014 | 612 right -angle connector | 612FE-A8 | 1 | Assembly | |
| 18 | 206201001 | Cotter pin | M2.5*30 | 4 | Standard | |
| 19 | 410220011 | Connection shaft | 612FE-A16 | 2 | Zinc-plating | |
| 20 | 612022003 | insurance hook | 612E-A15 | 2 | Assembly | |
| 20A | 206102007 | Elastic cylindrical pin | M5*40 | 2 | Standard | |
| 21 | 330310002 | Electromagnent | Standard | 2 | Standard | |
| 22 | 202109024 | Hexagon socket cap screws | M6*35 | 2 | Standard | |
| 23 | 203101004 | Hex nut | M6 | 2 | Standard | |
| 24 | 410222583 | Lap | 612E-A2-B4 | 2 | Q235A | |
| 25 | 202101027 | Cross socket cap head screw | M6*8 | 8 | Standard | |
| 26 | 420040010 | Anti-shock pad | 6254E-A23 | 4 | Rubber | |
| 27 | 203101006 | Hex nut | M10 | 4 | Standard | |
| 28 | 320301011 | Limit switch | TZ8108 | 1 | | |
| 29 | 615022108 | 612 built-up joint | 612E-A14 | 1 | Assembly | |
| 30 | 201102056 | Hex head full swivel screw | M20*60 | 10 | Standard | |
| 31 | 204101011 | Flat washer | M20 | 10 | Standard | |
| 32 | 204201009 | Spring washer | M20 | 20 | Standard | |
| 33 | | Power unit | | 1 | | |
| 34 | | Control box | | 1 | | |
| 35 | 202101022 | Cross socket cap head screw | M5*12 | 4 | Standard | |
| 36 | 202101029 | Cross socket cap head screw | M6*12 | 4 | Standard | |



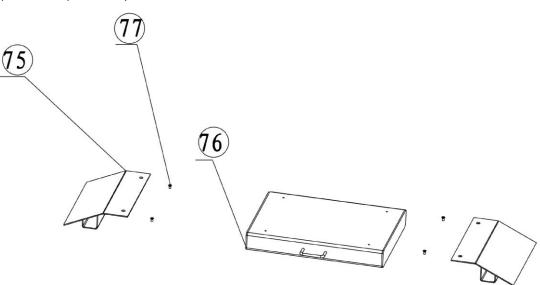
| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-----|------------|---|----------------|-----|--------------|------|
| 37 | 204101009 | Flat washer | M16 | 10 | Standard | |
| 38 | 204201010 | Spring washer | M16 | 10 | Standard | |
| 39 | 201102059 | Hex head full swivel screw | M16*45 | 10 | Standard | |
| 40 | 202109027 | Hexagon socket cap screws | M8*12 | 4 | Standard | |
| 41 | 202111005 | Hexagon socket countersunk flat cap head screw | M8*15 | 12 | Standard | |
| 42 | 615022019 | Left handle | 612E-A4-B8 | 1 | Welded | |
| 43 | 208105001 | Red handle | | 2 | Kunststoffe | |
| 44 | 612022001 | Front lock shat | 612E-A4-B5 | 2 | Zinc-plating | |
| 45 | 410220021 | Spring | 612E-A4-B7 | 1 | Zinc-plating | |
| 46 | 612022205 | Lock shaft of the handle | 612E-A4-B11 | 2 | Zinc-plating | |
| 47 | 612022204 | Right handle | 612E-A4-B10-C1 | 1 | Zinc-plating | |
| 48 | 612022202 | Front safety tooth | 612E-A4-B6 | 2 | Zinc-plating | |
| 49 | 614022008 | Front arm A | 612FE-A4-B3-C1 | 2 | Welded | |
| 50 | 614022009 | Front arm B | 612FE-A4-B3-C2 | 2 | Welded | |
| 51 | 615004003C | Lifting tray | 6254E-A7-B4 | 4 | Assembly | |
| 52 | 420220050 | 612 protective rubber strip | 612E-A4-B2 | 2 | Rubber | |
| 53 | 614022005 | Lifting platform | 612E-A4-B1 | 1 | Welded | |



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| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-----|------------|-------------------------------|-------------|-----|--------------|------|
| 54 | 202109017 | Hexagon socket cap screws | M6*8 | 2 | Standard | |
| 55 | 410130081 | Baffle | 6255E-A7-B6 | 1 | Zinc-plating | |
| 56 | 204301009 | Circlip | D25 | 2 | Standard | |
| 57 | 410010101 | Chain wheel shaft | 6254E-A4-B3 | 1 | Zinc-plating | |
| 58 | 410220071 | 612chain wheel | 612FE-A6-B2 | 1 | Zinc-plating | |
| 59 | 205101013 | Bearing | 2548 | 1 | Standard | |
| 60 | 612001001 | Chain wheel bracket | 6254E-A4-B2 | 1 | Zinc-plating | |
| 61 | 208108003 | 6255E Chain | | 1 | Assembly | |
| 62 | 615022012 | 612 oil cylinder | 612E-A6-B1 | 1 | Assembly | |
| 63 | 420010010 | Slider | 6254E-A2-B5 | 12 | Nylon | |
| 64 | 202111017 | Hex socket flat head screw | M6*30 | 1 | Standard | |
| 65 | 410130061 | Tube | 612E-A3-B2 | 1 | Zinc-plating | |
| 66 | 614022004 | Carriage | 612E-A3-B1 | 1 | Welded | |
| 67 | 202111017 | Hex socket flat head screw | M6*30 | 1 | Standard | |
| 68 | 614022012 | Top plate | 612E-A5 | 1 | Welded | |
| 69 | 204101004 | Flat washer | D6 | 2 | Standard | |
| 70 | 420220020 | Chain protection cloth | 612E-A7 | 1 | Assembly | |
| 71 | 410010051 | Rod of chain protection cloth | 6254E-A1-B5 | 2 | Zinc-plating | |
| 72 | 203101004 | Hex nut | M6 | 4 | Standard | |
| 73 | 624001042B | Short oil pipe | | 1 | Assembly | |
| 74 | 615022013 | Long oil pipe | | 1 | Assembly | |

Optional ramp assembly



| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-----|------------|----------------------------|-------------|-----|----------|------|
| 75 | 614022002 | Ramp A | 612FE-A1-B2 | 2 | Welded | |
| 76 | 614019030 | Ramp beam | 612FE-A8-B1 | 1 | Welded | |
| 77 | 202111005 | Hex socket flat head screw | M8*15 | 2 | Standard | |

Annex 6, Spare parts list

Spare parts for electrical system

| S/N | Material # | Name | Spec. | Qty | Pic. | Note |
|-----|------------------------|------------------|--|-----|------------------------|------|
| 1 | 320304001 | Power switch | LW26GS-20/04 | 1 | | |
| 2 | 320401001 | Button | Y090-11BN | 1 | | |
| 3 | 321201001 | Power indicator | AD17-22G-AC24 | 1 | | |
| 4 | 320101057 320101054 | Transformer | JBK3-160VA380V-24V JBK3-160VA220V-24V | 1 | | |
| 5 | 320901001 | AC contactor | CJX2-1210/AC24 | 1 | | |
| 6 | 320801001 320802001 | Circuit breaker | DZ47-63 C16/3P DZ47-63 C32/2P | 1 | | |
| 7 | 320803001 | Circuit breaker | DZ47-63 C3/1P | 1 | La al | |
| 8 | 320301011 | Limit switch | TZ8108 | 2 | | |
| 9 | 320402001 | Emergency stop | Y090-11ZS/red | 1 | EMG STOP | |
| 10 | 321002001 | Bridge rectifier | КВРС5А-35А | 1 | | |
| 11 | 321001004 | Capacitor | 4700UF/50A | 1 | The state of the state | |
| 12 | 320601004 | Relay | LY2NJ/AC24 | 1 | | |

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| S/N | Material # | Name | Spec. | Qty | Pic. | Note |
|-----|------------|-------------------|----------------|-----|------|------|
| 13 | 320601009 | Relay holder | PTF-08A | 1 | | |
| 14 | 320602001 | Time relay | ST6PA-5S/AC24V | 1 | | |
| 15 | 320602006 | Time relay holder | PYF-08AE | 1 | | |
| 16 | 321204002 | Control box | 260*460*135 | 1 | | |

Spare parts for the mechanical system

| S/N | Material # | Name | Drawing# | Qty | Property | Note |
|-----|------------|------------------|--------------------|-----|------------|------|
| 1 | 420010010 | slider | 6254E-A2-B5 | 12 | Nylon 1010 | |
| 2 | 207101019 | O-seal ring | ID 23.6*3.55 | | | |
| 3 | 615022012 | 612 oil cylinder | 612FE-A6-B1 | 1 | Assembly | |
| 4 | 207103020 | Y-seal ring | KD70*60*8 | | | |
| 5 | 207105005 | Anti-dust ring | DHS40(40*48*5/6.5) | | | |
| 6 | 615004003C | Lifting tray | 6254E-A7-B4 | 4 | Assembly | |