

Assembly and Operation Manual



TT5.5D-4

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THIS MANUAL CONTAINS:

TT5.5D-4 FOUR-POST FOUR-WHEEL ALIGNMENT LIFT

PACKING, TRANSPORT AND STORAGE

ALL PACKING, LIFTING, HANDLING, TRANSPORT AND UNPACKING OPERATIONS ARE TO BE PERFORMED EXCLUSIVELY BY EXPERT PERSONNEL

PACKING: Standard equipment: hydraulic pump and accessory, main and sub beam, front and back crossbeam, front post, back post, left and right approaching ramp, rolling jack, total is 7 pieces.

TRANSPORT:

Packing can be lifted or moved by lift trucks, cranes or bridge cranes.

In case of slinging, a second person must always take care of the load, in order to avoid dangerous oscillations.

At the arrival of the goods, check for possible damage due to transport operations. Also verify that all items specified in the delivery notes are included. In case of missing parts, possible defects or damage due to transport operations. Also verify that all items specified in the delivery notes are included. In case of missing parts, possible defects or damage due to transport, the person in charge or the carrier must be immediately informed.

MACHINES ARE ALL HEAVEY GOODS! DON'T MOVE OR LOAD THEM BY MANUAL.SAFETY IS THE MOST IMPORTANT.

Furthermore, during loading and unloading operation goods must be handling as shown in the picture.

STORAGE:

Machines must be put in the house, if put them out, should do the anti-water things.

Put them in the temperature between:-25~55 centigrade

INTRODUCTION

This manual has been prepared for workshop personnel expert in the use of the lift (operator) and technicians responsible for routine maintenance (maintenance fitter); read the manual before carrying out any operation

With the lift and/or the packing. This manual contains important information regarding:

- The personal safety of operators and maintenance workers.
- The safety of installation
- The safety of operating lift.

CONSERVING THE MANUAL

This manual is an integral part of the lift, which should always accompany with.

The manual must be kept in the vicinity of the lift, in an easily accessible place for the operator and maintenance staff must be able to locate and consult the manual quickly and at any time.

ATTENTIVE READING OF CHAPTER 3, WHICH CONTAINS IMPORTANT INFORMATION AND SAFETY WARNING

THE LIFT ARE DESIGNED AND MADE AS THE STANDARD OF THE EUROPEANS

The lifting, transport, unpacking, assembly, installation, starting up, initial adjustment and testing, extraordinary maintenance, repair, overhauls, transport and dismantling of the lift must be performed by specialized personnel from the licensed dealer or a service center authorized by the manufacturer.

The manufacturer declines all responsibility for injury to persons or damage to vehicles or objects when any of the above mentioned operations has been performed by unauthorized personnel or when the rack has been subject to improper use.

This manual indicates only the operative and safety aspects that may prove useful to the operator and maintenance worker, for a better understanding of the structure and operation of the lift and for best use of the same.

In order to understand the terminology used in this manual, the maintenance and repair activities, the ability to interpret correctly the drawings and descriptions contained in the manual and be the country in which the machine has been installed.

The same applies to the maintenance fitter, who must also possess specific and specialized knowledge (mechanical, engineering) needed to perform the operations described in the manual in complete safety.

OPERATOR: person authorized to use the lift

MAINTENANCE FITTER: person authorized for routine maintenance of the lift.

MANUFACTURER HAS THE RIGHT TO MAKE LITTLE CHANGE FOR THE MANUAL IN ORDER TO IMPROVE THE TECHNOLOGY.

DESCRIPTION OF THE MACHINE

Application:

TT5.5D-4 four post four wheel alignment is suitable for use in four wheel alignment, vehicle tests, maintenance and care for various types of small automobiles.

Features:

- imported electric components.
- the alignment level of the lift can be adjusted in high precision, which is the ideal equipment for four-wheel alignment.
- The position of the front wheel turning table (optional part) is adjustable so that the side slide plate can be fit for more cars. (F4)
- Device performs stable and liable work with anti-breaking rope safety insurance.
- with second lifting trolley guide rail and can optional add.

Equipment:

- machine frame
- lift frame
- hydraulic system
- control box

Basic frame:

Made of concrete

Frame:

Post, main and sub beam, front and back crossbeam.

Hydraulic Pump:

Make up for hydraulic pump, pump motor, oil tank.

Control box:

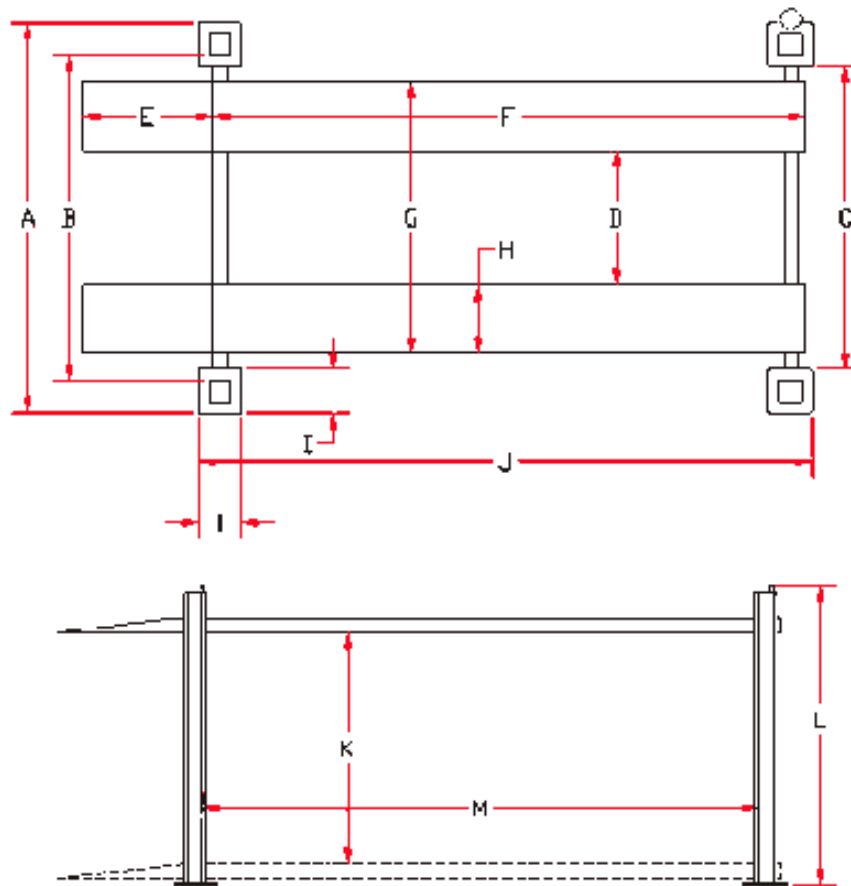
Control by electricity system.

The four-post lift is designed and built to lift vehicle to hold them in the elevated position in a closed workshop. All other use is unauthorized. In particular, the lift is not suitable for: washing and spray work, creating raised platforms or lifting personnel, use as a makeshift press for crushing purposes, use as good lift. And not to lift the vehicle whose weight exceeds the maximum weight.

Specification

MODEL	TT5.5D-4	
Drive	Electrical hydraulic	
Max lift weight	5500kg	
Lift height	1750mm	
Platform initial height	250mm	
Platform length	5190mm	
Platform width	490mm	
Lifting time	≤60S	
Lowing time	≤30s	
Overall width	3333mm	
Overall length	5280mm	
Overall weight (without pump and rolling jack)	1500kg	
power	220V/50HZ/1PHASE,or380V/50HZ/3PHASE	
Hydraulic oil	16 L 46# high abrasive hydraulic oil	
Rolling Jack lifting Weight	2000Kg	3000kg
Rolling jack lifting height	300mm	294mm
Rolling jack lifting length	min790~max1210mm	min915~max1360mm
Rolling jack wheel distance	min812~1042mm	min925~1335mm
Rolling jack lifting time	Electrical RJ≤8s	
	Manual or pneumatic RJ ≤20s	
Rolling jack lowering time	≤10S	
Rolling jack weight	128kg	140kg
Pneumatic RJ voltage	6-8Kg/cm ²	
temperature	5-40℃	
Moist	30-95%	
Noisy	<76db	
Installation height	≤1000M	
Storage temperature	-25-55℃	
optional	Rolling jack	

Chapter 2. Technical specifications



Specifications	Key	TT5.5D-4
Overall Width	A	3333mm
Inside Columns	B	2863mm
Inside Soleplate of columns	C	2733mm
Between Runways	D	800mm
Length of Ramp	E	1080mm
Length of Runway	F	5190mm
Width of Outside runway	G	1994mm
Width of runway	H	490mm
Size of Soleplate	I	300*300mm
Overall Length	J	5280mm
Lifting Height	K	1750mm
Overall Height	L	2275mm
Length of Columns	M	4790mm
Lifting Capacity		12000lbs
Net (Gross) Weight		1715(1730)kg

Chapter 2. Technical specifications

INSTALLATION SCHEME FOR LIFT

NOTE: To install the lift it is necessary to execute suitable foundations with the following characteristics:

- concrete type 425, the drying days are 15 days.
- thickness of concrete $\geq 150\text{mm}$, the leveling of whole length $\leq 10\text{mm}$
- perfect parallelism between holes.

NOTE: THE THICKNESS AND LEVELLING OF THE BASE CONCRETE ARE ESSENTIAL AND THE LEVELLING ADJUSTMENT ABILITY OF THE MACHINE ITSELF CANNOT BE RELIED UPON TO EXCESSIVELY.

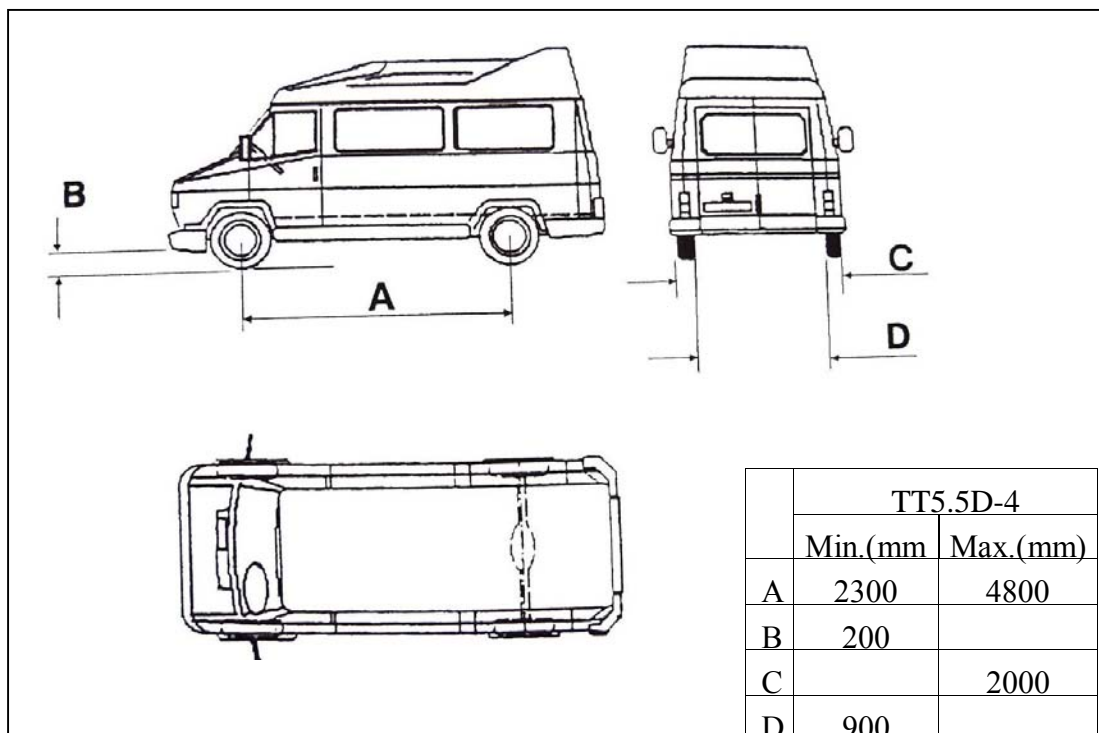
TYPES OF VEHICLES SUITABLE FOR BEING LIFTED AND OVERALL DIMENSIONS

Lift are suitable for virtually all vehicles with total weight of no more than 4000 Kg and with dimensions not exceeding the below data.

MAXIM WEIGHT:

TT5.5D-4 not exceed 5500Kg.

The following diagrams illustrate criteria used to define the operating limits of the lift.



CAUTION: THE LOWER PARTS OF THE VEHICLE UNDERBODY COULD INTERFERE WITH STRUCTURAL PARTS OF THE LIFT, TAKE PARTICULAR PARTS OF THE SPORTS-CAR.

The lift will also handle customized or non-standard vehicles, provided they are within the maximum specified carrying capacity.

Also the personnel safety zone must be defined in relation to vehicle with unusual dimensions.

SAFETY

Read this chapter carefully for there is important information of the safety for the operator or others in case of improper use of the lift is included.

In the following text there are clear explanations regarding certain situations of risk or danger that may arise during the operation or maintenance of the lift,

Lifts are designed and built to lift vehicles and hold them in the elevated position in an enclosed workshop. All other uses of the lifts are unauthorized. In particular, the lifts are not suitable for:

- washing and cleaning work;
- creating raised platforms for personnel or lifting personnel;
- use as a press for crushing purposes;
- use as elevator;
- use as a lift jack for lifting vehicle bodies or changing wheels.

The manufacturer is not liable for any injury to persons or damages to vehicles and other property caused by the incorrect and unauthorized use of the lifts.

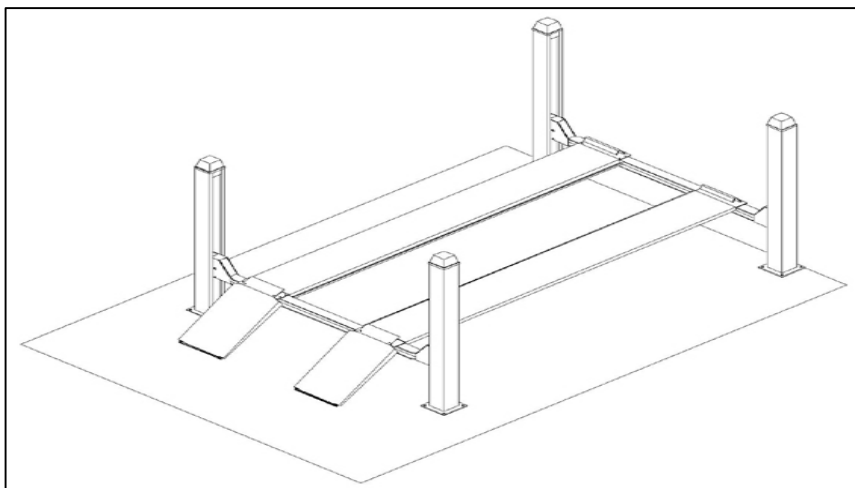
During lifting and lowering movements the operator must remain in the control station.

The presence of persons inside the danger zone indicated is strictly prohibited.

During operations persons are admitted to the area beneath the vehicle only when the vehicle is already in the elevated position, when the platforms are stationary, and when the mechanical safety devices are firmly engaged.

DO NOT USE THE LIFT WITHOUT PROTECTION DEVICES OR WITH THE PROTECTION DEVICES INHIBITED.

FAILURE TO COMPLY WITH THIS REGULATION CAN CAUSE SERIOUS INJURY TO PERSONS, AND IRREPEARABLE DAMAGE TO THE LIFT AND THE VEHICLE BEIN LIFED.



GENERAL PRECAUTIONS

The operator and the maintenance fitter are required to observe the prescriptions of safety regulation in force in the country of installation of the lift.

Furthermore, the operator and maintenance fitter must:

- always work in the stations specified and illustrated in this manual;
- never remove or deactivate the guards and mechanical, electrical, or other types of safety devices;
- read the safety notices placed on the machine and the safety information in this manual.

In the manual all safety notices are shown as follows:

Indicate imminent danger that can result in serious injury to people or poverty.

Indicates situations and/or types of maneuvers that are unsafe and can cause minor injury to persons and /or death.

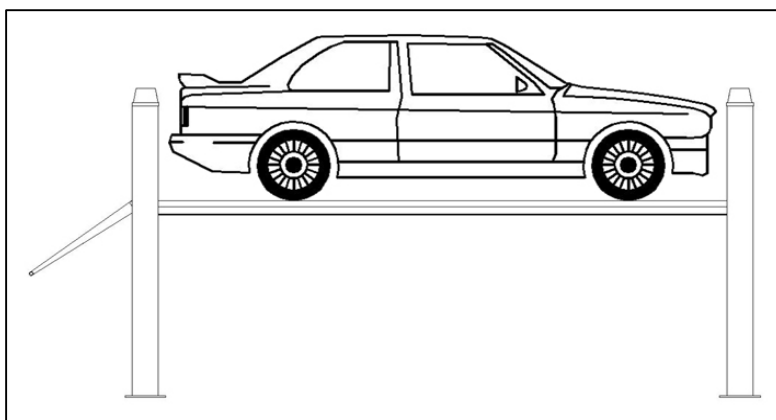
Indicates situations and/or types of maneuvers that are unsafe and can cause minor injury to persons and/or damage the lift, the vehicle or other property.

RISK OF ELECTRIC SHOCK: a specific safety notice placed on the lift RISK AND PROTECTION DEVICES

We shall now examine the risks that operators or maintenance fitters may be exposed to when the vehicle is standing on the platforms in the raised position, together with the various safety and protection devices adopted by the manufacturer to reduce all such hazards to the minimum:

For optimal personal safety and safety of vehicles, observe the following regulations:

- do not enter the areas that are unsafe when vehicles are being lifted.
- switch off the engine of the vehicle; engage a gear and the hand brake,
- make sure the vehicle is positioned correctly on the platform.
- be sure to lift only approved vehicles, never exceed the specified carrying capacity, maximum height, and projection (vehicle length and width);
- make sure that there is no person on the platforms during up and down movements.



RISKS FOR PERSONNEL

This heading illustrates potential risks for the operator, maintenance fitter, or any other person present in the area around the lift, result from incorrect use of the lift.

RISK OF CRUSHING

Possible if the operator controlling the lift is not in the specified position at the control panel.

When the platforms (and vehicle) are lowering the operator must never be partly or completely underneath the movable structure. Always remain in the control zone.

RISK OF IMPACT

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

When, due to operational reasons, the lift is stopped at relatively low elevations personnel must be careful to avoid impact with parts of the machine not marked with special color.

RISK OF OPERATOR FALLING

No person is permitted in the platform or in the vehicle when the lift lifting and lowering,

RISK OF VEHICLE MOVING

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

RISK OF VEHICLE FALLING FROM LIFT

This hazard may be caused by incorrect positioning of the vehicle on the platforms, incorrect stopping of the vehicle, or vehicles of dimensions that are not compatible with the capacity of the lift.

NEVER ATTEMPT TO PERFORM TESTS BY DRIVING THE VEHICLE WHILE IT IS ON THE PLATFORMS.

NEVER LEAVE OBJECTS IN THE LOWERING AREA OF THE MOVABLE PARTS OF THE LIFT.

RISK OF SLIPPAGE

Caused by lubricant contamination of the floor around the lift.

The area beneath and immediately surrounding the lift and also the platforms must be kept clean.

Remove any oil spills immediately.

RISK OF ELECTRIC SHOCK

Risk of electric shock in areas of the lift housing electrical wiring.

Do not use jets of water, steam solvents or paint next to the lift, and take special care to keep such substances clear of the electrical control panel.

RISKS RELATED TO INAPPROPRIATE LIGHTING

The operator and the maintenance fitter must be able to assure that all the areas of the lift are properly and uniformly illuminated in compliance with the laws in force in the place of installation.

NEVER EXCEED THE MAXIMUM CARRYING CAPACITY OF THE LIFT, MAKE SURE THE VEHICLES TO BE LIFTED HAVE NO LOAD. IT IS THEREFORE ESSENTIAL TO ADHERE SCRUPULOUSLY TO ALL REGULATIONS REGARDING USE, MAINTENANCE AND SAFETY CONTAINED IN THIS MANUAL.

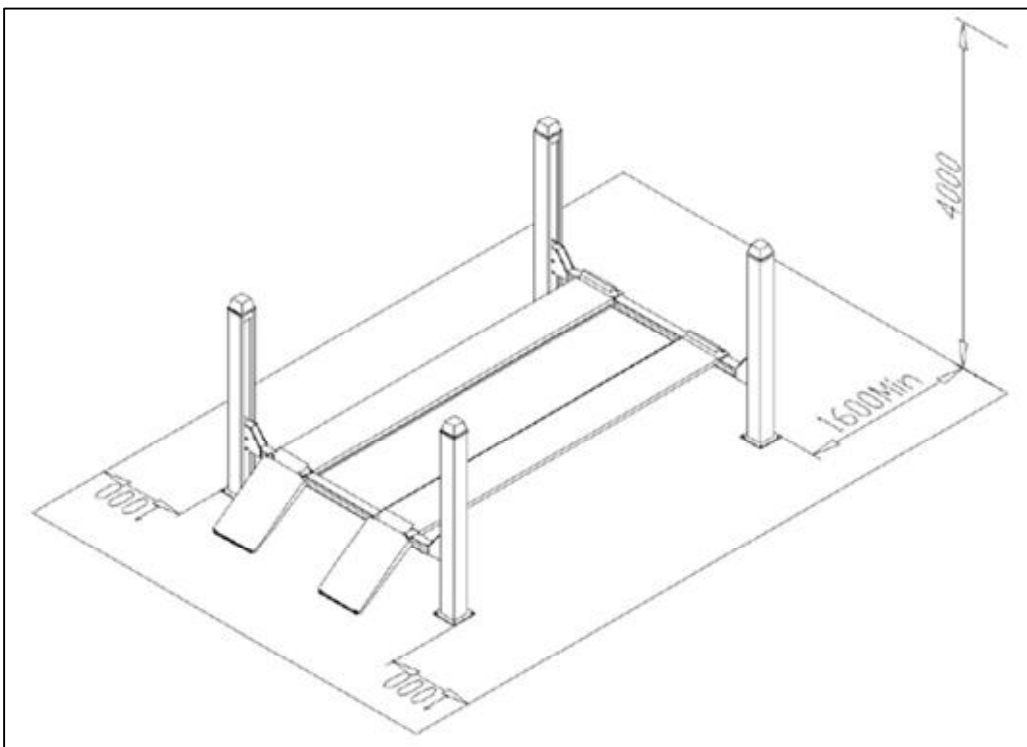
INSTALLATION WARNING

SKILLED AND AUTHORIZED PERSONNEL ONLY SHOULD BE ALLOWED TO PERFORM THESE OPERATIONS, FOLLOW ALL INSTRUCTIONS SHOWN BELOW CAREFULLY, IN ORDER TO PREVENT POSSIBLE DAMAGE TO THE CAR LIFT OR RISK OF INJURY TO PEOPLE. BE SURE THAT THE OPERATING AREA IS CLEARED OF PEOPLE.

INSTALLATION REQUIREMENTS

The car lift must be installed according to the specified safety distances from walls must be 1000 mm at least, taking into consideration of the necessary space to work easily. Further space for the control site and for possible runways in case of emergency is also necessary; the room must be previously arranged for the power supply and pneumatic feed of the car lift. The room must be 4000 mm in height, at least, the car lift can be placed on any floor, as long as it is perfectly level and sufficiently resistant. ($\geq 250\text{kg/cm}^2$)

- All parts of the machine must be uniformly lit with sufficient light to make sure that the adjustment and maintenance operations specified in the manual can be performed safely, and without areas of shadow, reflected light, glare and avoiding all situations that could give rise to eye fatigue.
- The lighting must be installed in accordance with the laws in force in the place of installation.
- the thickness and leveling of the base concrete are essential
- thickness of concrete $\geq 150\text{mm}$, the leveling of whole length $\leq 10\text{mm}$.



CROSSBEAM INSTALLATION

- fix the front and back crossbeam on the floor.
- Put a wood or an iron under the crossbeam in order to raise 100-300mm.
- fix eight nylon anti-crashes inner and outer of the crossbeam.

BEAM INSTALLATION:

- Put two beam on the transom, the main beam should located on the left side of the moving vehicle direction, the sub-beam located on the right side, the rolling wheel notch on the beam should inside.
- check two platform and the diagonal of two transom are straight, then put four posts on the side of the transom, and fix the nuts on the roof of the post with steel line, put the safety teeth trough the limit axis, also fix the nuts on the roof of the post.

POST INSTALLATION:

Unload the spoon under the insurance in the post.

ROLLING JACK INSTALLATION (optional add):

- adjust the distance of the rolling jack; put the rolling jack between the slide track.
- adjust the sub beam to make sure the sliding of the rolling jack.

ROLLING JACK INSTALLATION

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LINE CONNECTION

Connect the electrical and oil line according to the electric wiring diagram and oil line connection

To avoid the unexpected lift closure due to mechanical safety device release insert wooden pieces in the inner part of the base frame.

Pay attention not to work under the lift until the hydraulic system has not been completely filled with hydraulic oil.

Electrical routine connection:

According to the electric connection.

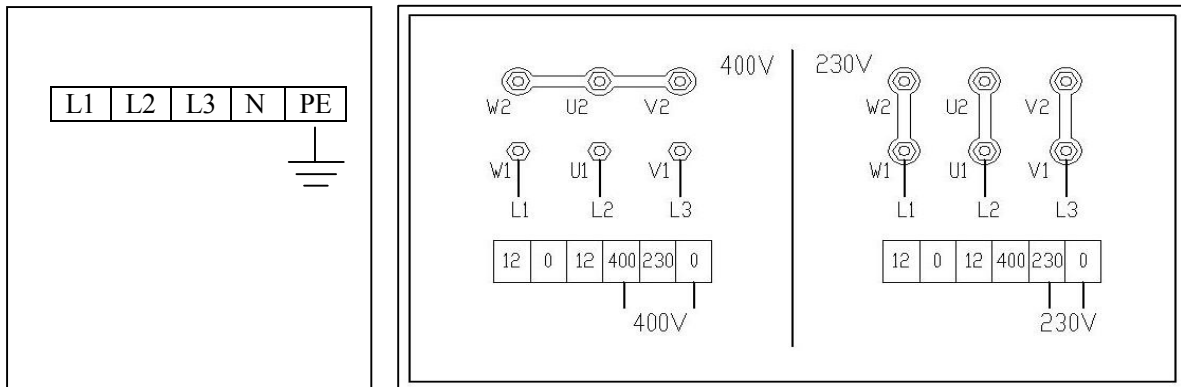
Skilled personnel only are allowed to perform the operations shown below.

-open the control box front cover

-connection of power supply: the 400 three-phase five-wires (BVR-3*2.5mm²+2*1.5mm²) for power supply are connected to terminals 1#, 2#, 3#,N.The PE is connected to the ground wire.

-Electric motor wire connection: connect the control box with U12 # 、 V12#、 W12# electric wire to motor wire box.

-therefore if you wish the lift to operate at 230V three-phase, change the connection on the transformer and motor.



The limit switch connection (equipped with electrical carriage)

Connect the PE, 102# from the control box with metal hoses to the limit switch of electrical rolling jack.

Hydraulic hoses connection

Connect the hydraulic hoses as oil route connection drawing.

Only skilled and authorized personnel can operate.

Be careful about the connection of the oil hoses to protect the hoses from dust and impurities.

Electrical carriage oil line connection:

The oil line of electrical carriage from manual selector to oil tank.

-open the hydraulic oil tank, add 18L of hydraulic oil into the oil tank, the hydraulic oil is provided by the user.



Chapter 5 Adjustment Add oil and check the order of phase

Make sure the clean of hydraulic oil, prevent any impurity into the oil line, lead the digest of the oil line and no working of the solenoid valve.

-press the “power” button to turn on power, clicking the “up” button, check whether the motor turns clockwise (looking downward), if not press “power” button, change the phase of the motor.

When turn on power, there is high voltage in the control box, only authorized person can operate.

Main machine adjustment

-Turn the selector switch on the control panel to the “main” position.

-press “up” button SB1, lift crossbeam approximately 1000mm.

-press “down” button SB2, verify the safety instruction.

-press “down” button SB2, adjust the safety instruction on the frame of the crossbeam. Then lower the platform.

Rolling jack adjustment

If equipped with manual carriage.

-press manual hydraulic hand, lift approximately 300mm

-unfasten the manual, lift the safety rod of rolling jack, lower the rolling jack.

If equipped with pneumatic carriage

-press the pneumatic switch on the pneumatic carriage, lift approximately 300mm.

- press the other side of pneumatic lift the safety rod of rolling jack, lower the rolling jack.

-press the other side of pneumatic pump, verify the insurance instruction.

If equipped with electrical carriage.

-turn the selector switch to “rolling jack” position.

-press “up” button SB1, lift approximately 300mm.

-press “down” button SB2 and lift the safety rod of rolling jack, lower the rolling jack.

-press “down” button SB2, verify the safety instruction is reliable.

Electrical rolling jack limit adjustment

-clicking “up” button SB1, lift approximately 370mm.

-adjust the process of limit switch SQ.

-clicking the procedure of lifting verify the accuracy of rolling jack.

Anchor bolts installation

-affix the lift to the concrete base with 16 anchor bolts using a percussion drill into 120mm.

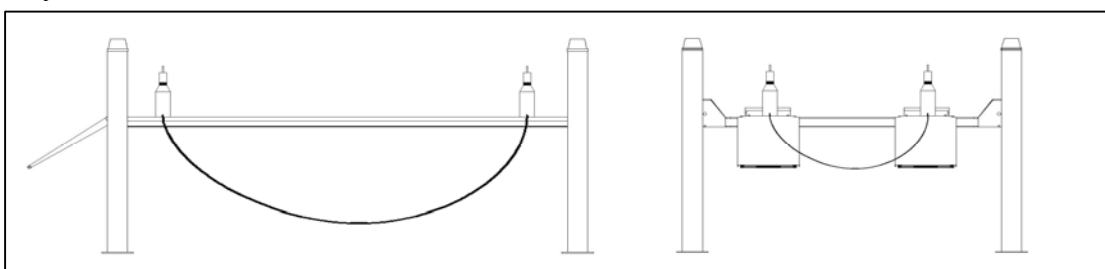
-At first, no expansion bolts are installed.

Level adjustment

-adjust the level of the two front turntable and the slide plates on both sides at back.

Insurance level adjustment.

-if the unparallel of the basement lead to the unparallel of the platform, can adjust the height of the safety rod.



Chapter 5 Adjustment Add oil and check the order of phase

-lift the platform approximately 100mm; press “down” button let the insurance go into the hole of insurance rod.

Steel line adjustment

-lift the platform approximately 1000mm.

-fix the steel line bolts after level adjustment.

-No load of main machine test

-turn on the power QS. (If equipped with electrical carriage, turn the selector switch to “main machine”)

-press “up” button SB1, main platform lifted.

-press “down” button SB2, and press insurance hand, the platform is lower.

-press “lower”, four insurance locking.

-check the lift of main machine is placidity, and the locking is secure, check whether the oil line is leakage.

NO PERSON AND THING LEAVE UNDER OR ON THE LIFT.

Press button SB0 if there is something abnormal.

OPERATION

Only trained person can operate and check as follows:

- clear obstacles around before operation.
 - during lifting or lowering, no person is allowed to stand near the two sides and beneath the machine, and no person is allowed on the two platform.
 - avoid lifting super heavy vehicles or other thing.
 - when lifting vehicle, the hand brake lever of the vehicle should be pulled, and the slide resistant triangle woods should be used.
 - pay attention to the synchronization of the lifting and lowering. If any thing abnormal is found, stop the machine timely, check and remove the trouble.
 - when locking the main machine, the two platforms should be kept at the same height.
 - when the equipment has not used for a long time or over night, the machine should be lowered to the lowest position on ground, and remove vehicle, and cut off power supply.
- Instructions on electric operation :(see the operation panel)

Lift the main machine:

- if equipped with electrical carriage, first turn the manual selector on “main machine” position.
- press “up” button SB1, oil pump working, and the platform lift.
- unfasten SB1, oil pump stop working, and immediately stop lifting.

Main machine lower

- press “down” button SB2, and then press safety manual hand, lower the platform. Unfasten manual hand, stop lower.
- if the insurance is there, lift the platform, and then press “down”

Main machine locking

- single press “lower”, platform lower.

Emergency stop

- press “emergency stop” button SB0 and locking, cut off all the operation circuit when machine is abnormal.

Only authorized person can operate, doing alignment only after “locking” proce

Rolling jack lift

Electrical carriage

- turn the selector switch on “rolling jack” position, clicking “up” button, rolling jack is lift.

Note: the speed of rolling jack is fast, can not press “up” button continuously.

Manual or electrical rolling jack

Press rolling jack manual hand or pneumatic switch, drive the rolling jack lift.

Rolling jack lowering

Electrical carriage:

- press “down” button, lift the insurance of rolling jack, rolling jack is lowering.
- First lift the rolling jack a little, if rolling jack is fixing, make sure the insurance instruction is off, and then click “off”.

Manual or electrical rolling jack

Unfasten the manual pump back oil valve or the other side of pneumatic switch. then lift the rolling jack's insurance the rolling jack is lower.

Rolling jack locking

-single press "down" button or manual pump back oil valve or pneumatic pump switch.



MANUAL LOWERING THE LIFT, IT SHOULD SCREW THE BACK OIL VALVE WHEN ABNORMAL SITUATION, AS THERE HAVE VEHICLE ON THE PLATFORM.

MAINTENANCE AND CARE

The maintenance and care of the lift must be operated by skilled person.

-the upper and lower sliding blocks must be cleared of foreign objects, and must be kept clean and lubricated.

-all bearings and hinges on this machine must be lubricated once a month

-the type of F4 of the four-wheel alignment should lubricate yearly.

-the hydraulic oil must be replaced one time each year. The oil level should always be kept at upper limit position.

-check the steel line every three times and if there is something wrong, stop using, and tell the manufacture.

-the integration of the pneumatic system with an air treatment unit is suggested.

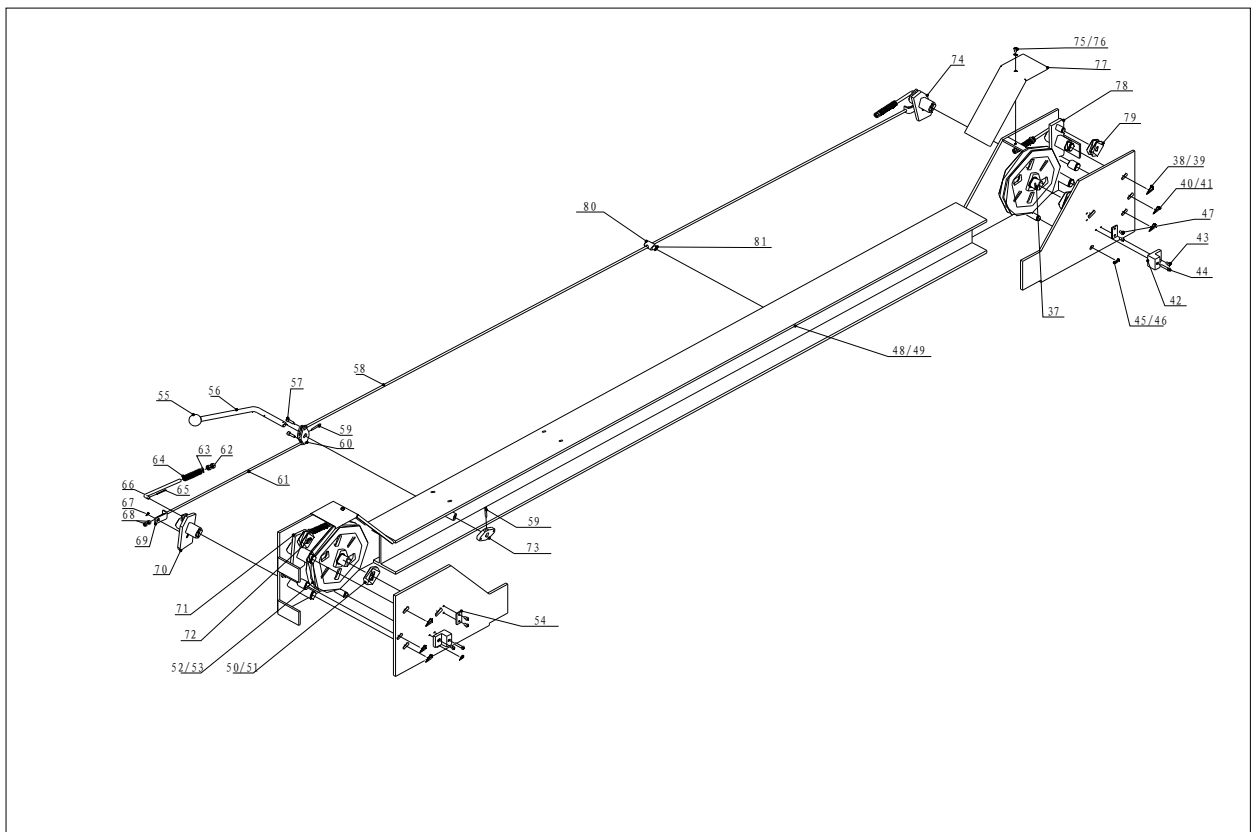
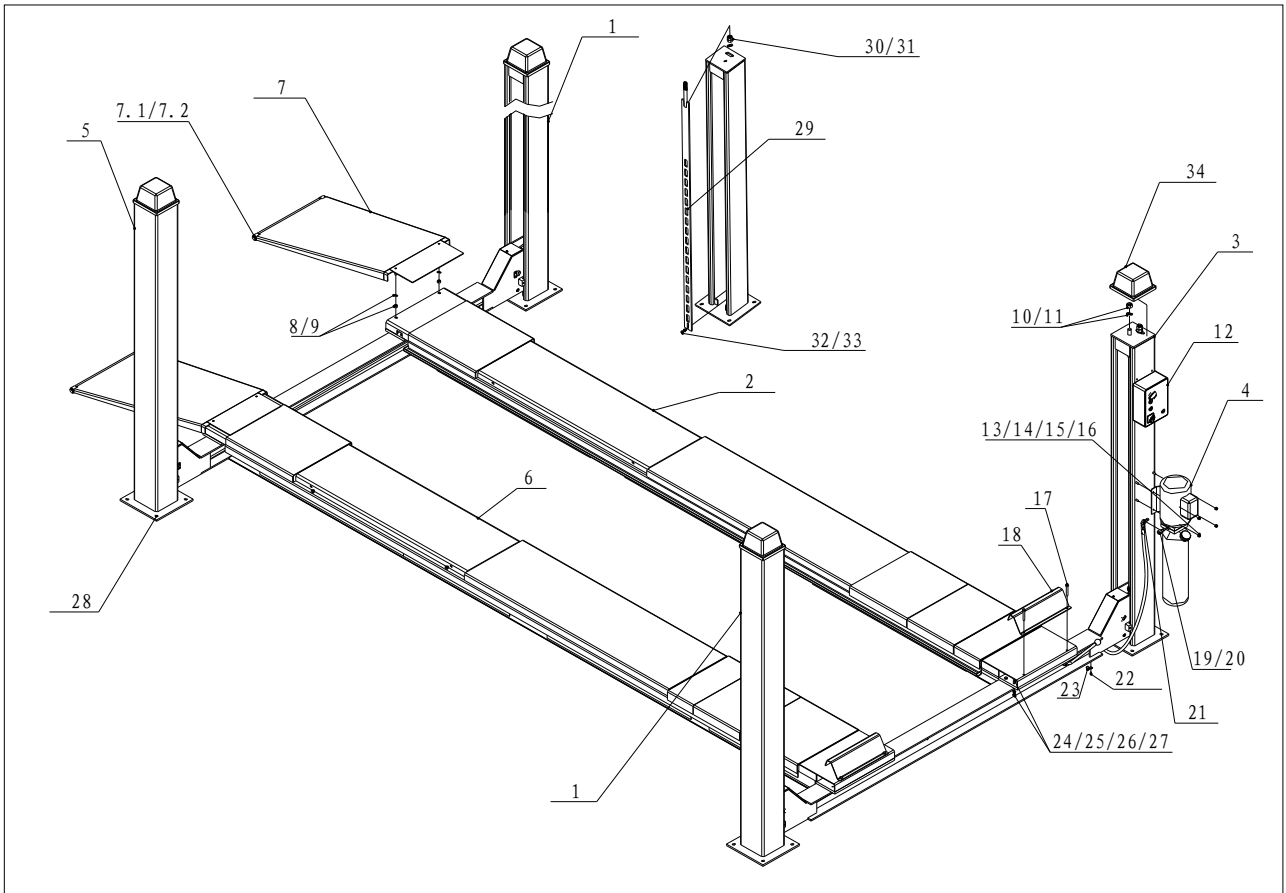
When change hydraulic oil, put machines to the lowest position, have the oil tank empty, when add new oil, should have the oil cleaned.

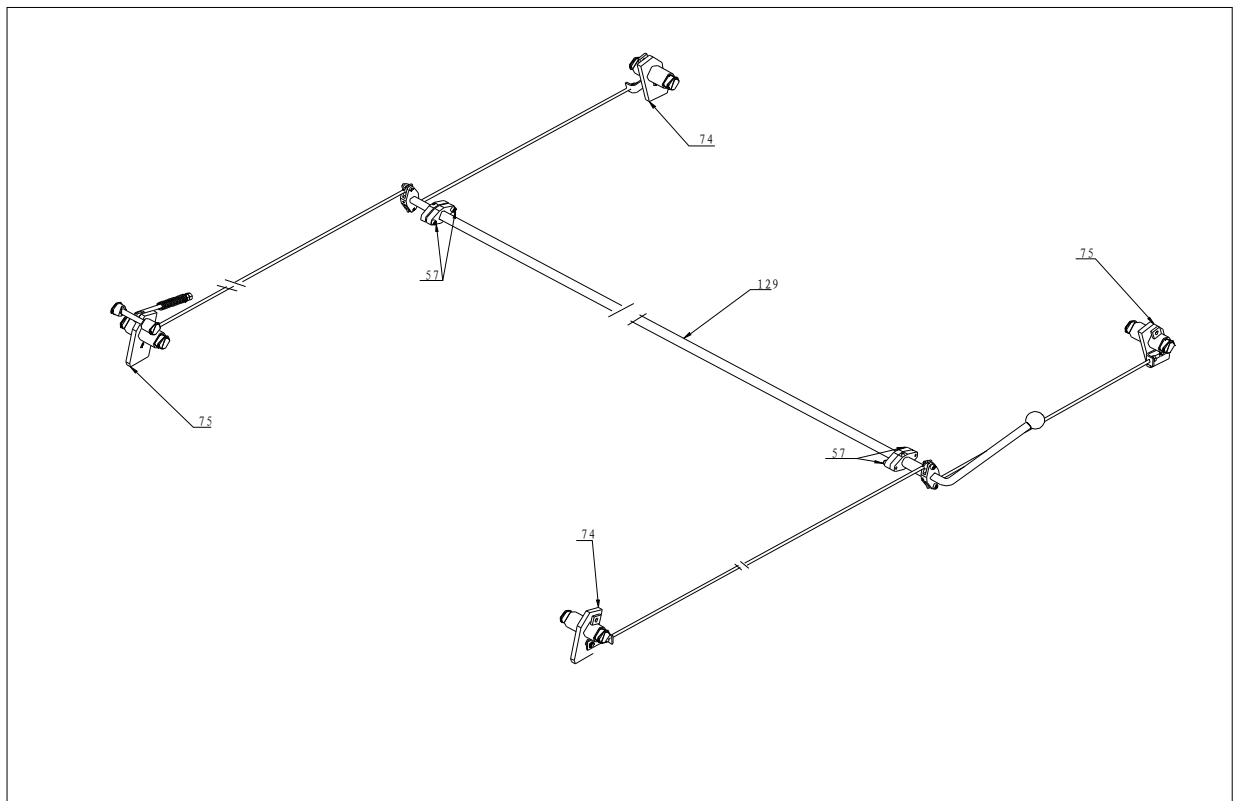
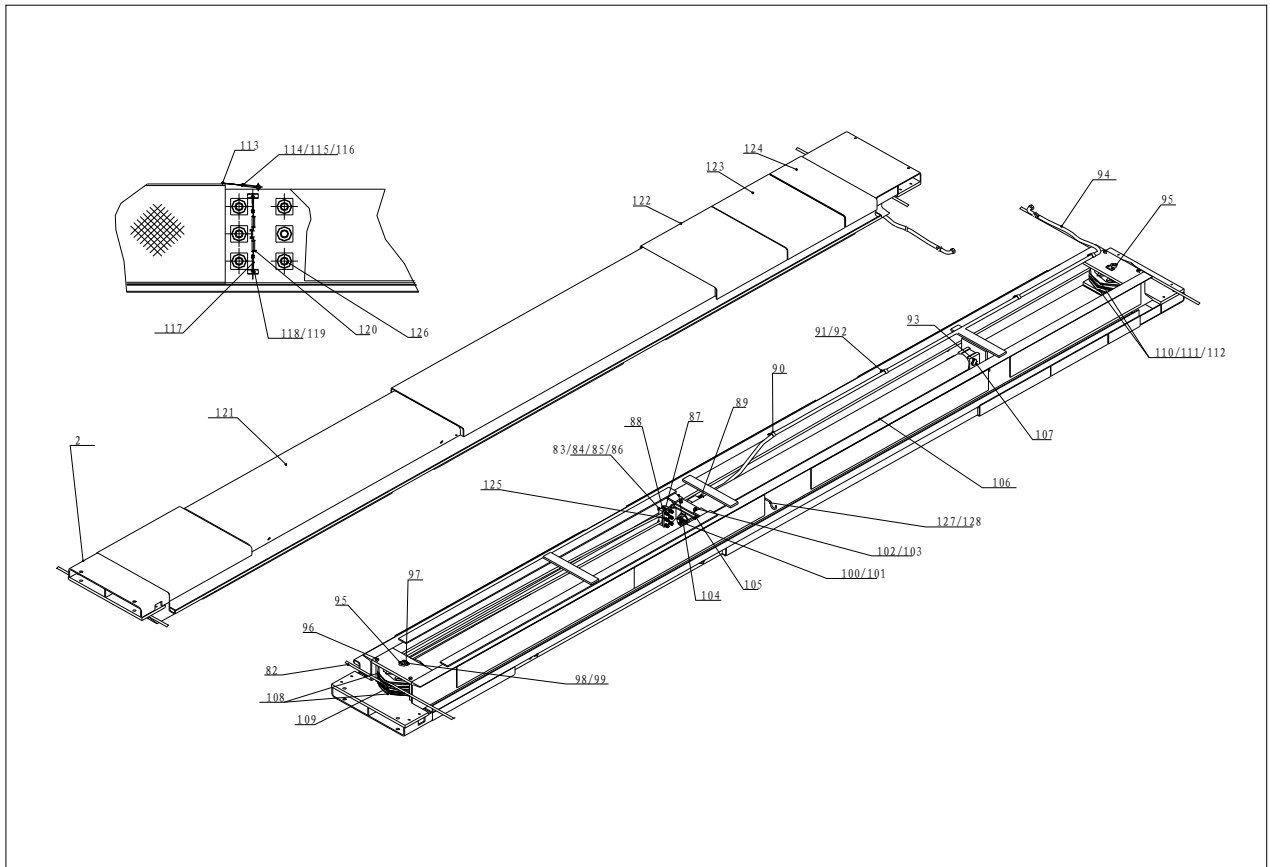
-if equipped with rolling jack, check the liability of the switch.

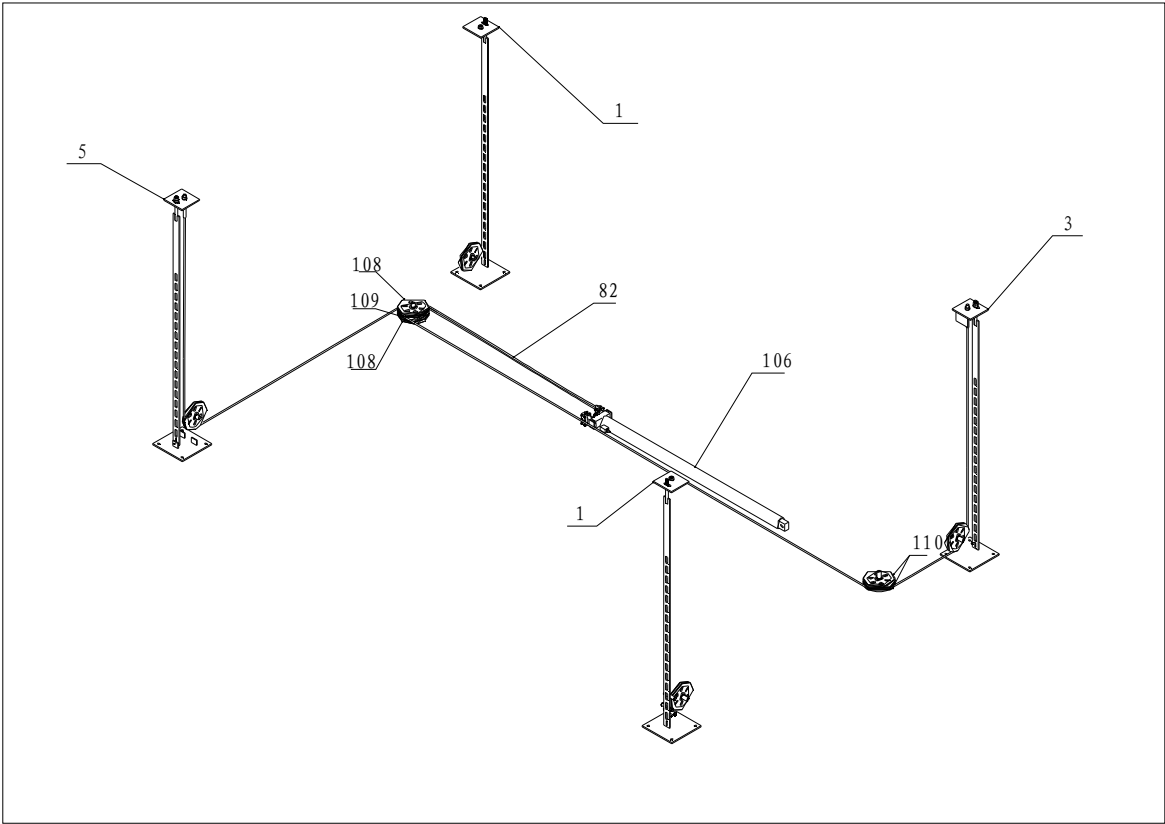
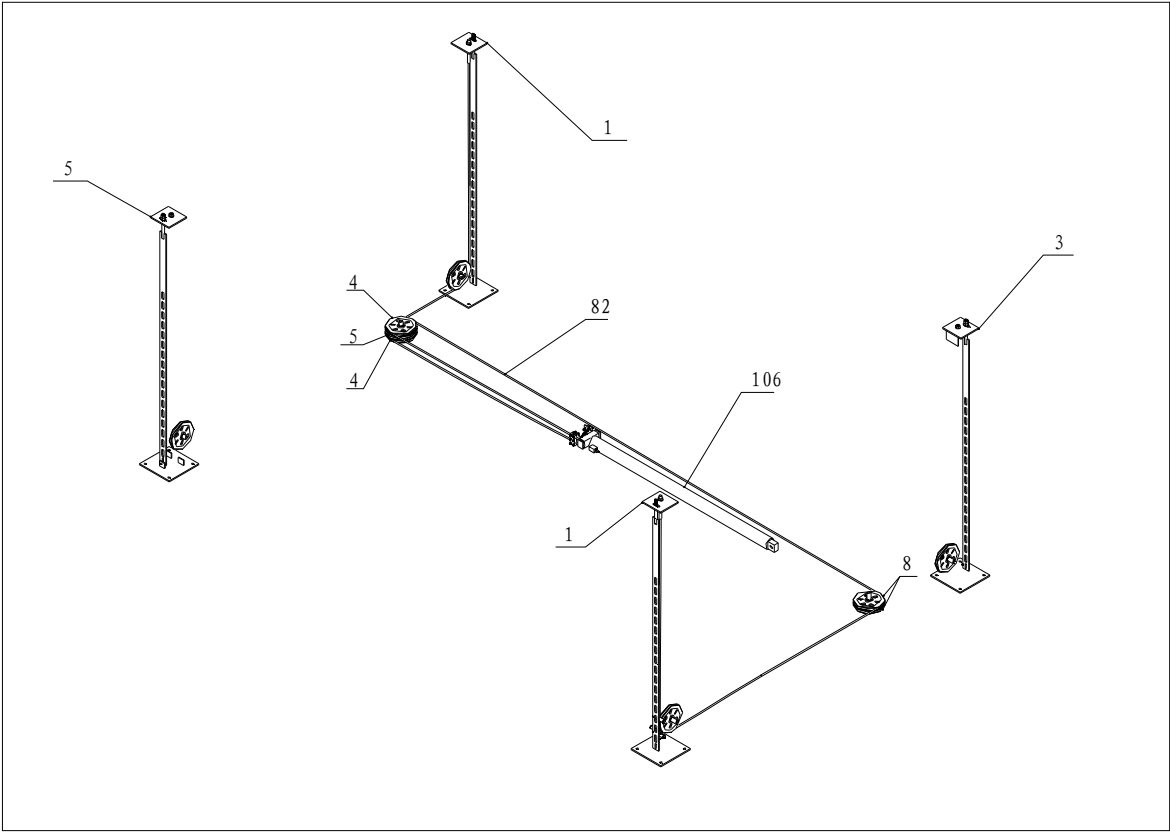
TROUBLE SHOOTING AND RESOLUTIONS

Trouble	Cause and Phenomena	Resolutions
The motor does not run in lifting operation.	Connection of power supply wires or zero wire is not correct.	Check and correct wire connection.
	The AC contactor in the circuit of the motor does not pick up.	If the motor operates when forcing the contactor down with an isolation rod, check the control circuit. If the voltage at two ends of the contactor coil is normal, replace the contactor.
	The limit switch is not closed.	Short-circuit terminal 10# and 0#, which are connected with the limit switch, and if the trouble disappears, check the limit switch, wires and adjust or replace the limit switch.
In lifting operation, the motor runs, but there is no lifting movement.	The motor turns reverse.	Change the phases of the power supply wires.
	Lifting with light load is normal but no lifting with heavy load.	The set safe pressure of the over-flow valve may be increased by turning the set knob right ward slightly. The spool of the lowering solenoid valve is stuck by dirt. Clean the spool.
	The amount of hydraulic oil is not enough.	Add hydraulic oil.
	The “operation stop valve” is not open.	Turn right and open the “Operation stop valve and supply hydraulic oil to main oil cylinder.
When press “Lower” button, the machine is not lowered.	The safety pawl are not released form the safety teeth.	First lift a little and then lowering.
	The safety pawl is not lifted.	The air pressure is not enough or the safety pawl is stuck.
	The solenoid air valve does not work.	If the solenoid air valve is energized, but does not open the air loop, check or replace the solenoid air valve.
	The lowering solenoid valve is energized but does not work.	Check the plug and coil of the lowering solenoid valve and check the right turn tightness of its end copper nut and so on.
	The hydraulic oil has too high viscosity or frozen, deteriorated (in Winter).	Replace with 20# hydraulic oil in accordance with the instruction book.
The machine lowers extremely slowly under normal loads.	The “antiknock valve” for preventing oil pipe burst is blocked.	Remove or close air supply pipe and thus lock the safety pawl of the machine without lifting of the safety pawl. Remove the “antiknock valve” from the oil supply hole at the bottom of the oil cylinder, and clean the “antiknock valve”.
	Oil leakage on oil pipe or at its connections.	Tighten oil pipe connections or replace oil seals and then make-up oil and adjust levelness.
	The “oil make-up stop valve” can not be closed tightly and almost make-up oil and adjust every day.	Replace oil make-up stop valve and then make-up oil and adjust.
	The base or the machine is twisted.	Adjust again the levelness of the machine, and fill or pad the base.

TT5.5D-4 Explosive Diagram







TT5.5D-4 Parts List

No.	Chart Number	Name	Quantity	Remark
1	TT5.5F4-100-03-01-00	Column parts3	2	Weld assembly
2	TT5.5F4-300-01-01-00	Main runway	1	Weld assembly
3	TT5.5F4-100-01-01-00	Column parts1	1	Weld assembly
4		Hydraulic pump	1	
5	TT5.5F4-100-02-01-00	Column parts2	1	Weld assembly
6	TT5.5F4-300-02-01-00	Assistant runway	1	Weld assembly
7	TT5.5F4-600-01-01-00	Front board	2	Weld assembly
7.1	TT5.5F4-600-01-03	Front board wheel	4	
7.2	GB894.1-86	Snap ring	20	d25
8	GB6170-86	Hexagon nut	4	M12
9	GB97.1-85	Flat washer	4	d12
10	GB95-85	Flat washer	8	d20
11	GB41-86	Hexagon nut	12	M20
12		Control box	1	
13	GB6170-86	Hexagon nut	40	M8
14	GB97.1-85	Flat washer	34	d8
15	GB5781-86	Hexagon headed bolt	4	M8X25
16	GB93-87	Spring washer	14	d8
17	GB5781-86	Hexagon headed bolt	4	M10X70
18	TT5.5F4-600-02	Front wheel block	2	
19	TPF4-500-08	Washer	1	
20	TPF4-500-07	Hydraulic cylinder-tie in	1	
21	TPF4-500-05	Direct outside fitting	1	
22	GB818-85	Cross Recess Head Screw	13	M6X10
23	TT5D-100-07	Vitta Holder	1	
24	GB5781-86	Hexagon headed bolt	8	M10X40
25	GB93-87	Spring washer	8	d10
26	GB95-85	Flat washer	12	d10
27	GB6170-86	Hexagon nut	8	M10
28		Expansion bolt	16	φ 19
29	TT5.5F4-100-04-00	Safety card	4	Weld assembly
30	GB41-86	Hexagon nut		M20
31	GB95-85	Flat washer		d20
32	GB70-85	hexagon socket head cap head screw	4	M10X30
33	GB95-85	Flat washer		d10

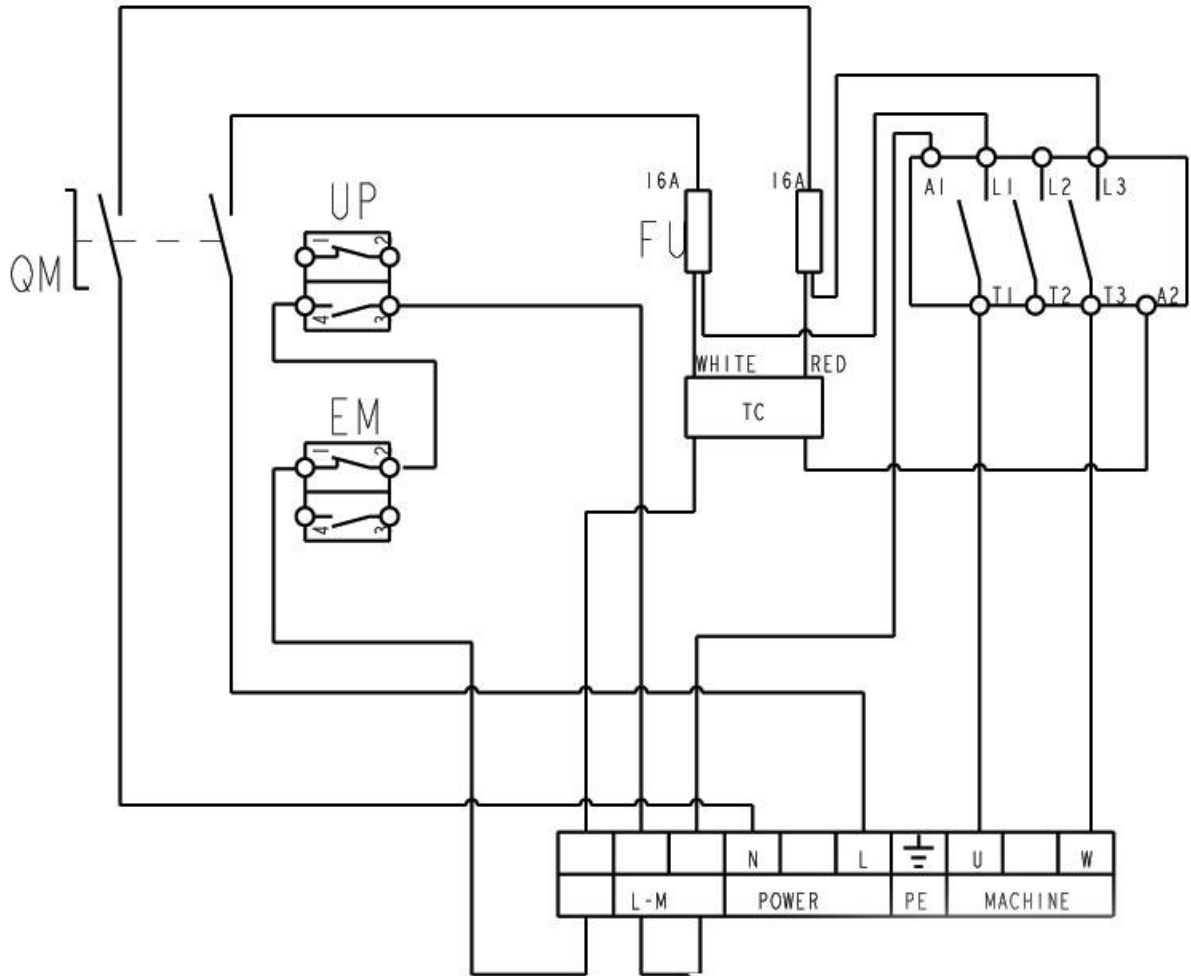
34	TT5.5F4-100-05	Column cover	4	
37	TT5.5F4-200-01-01	Spindle1	4	
38	TT5.5F4-200-01-02	Spindle2	8	
39	GB894.1-86	Snap ring	20	d25
40	TT5.5F4-200-01-03	Spindle3	4	
41	GB894.1-86	Snap ring	8	d24
42	TT5.5F4-200-01-04	Nylon block	8	
43	GB823-88	Cross recessed small pan head screw	8	M6X12
44	GB823-88	cross recessed small pan head screw	8	M6X35
45	TT5.5F4-200-01-05	Spindle4	4	
46	GB894.1-86	Snap ring	12	d16
47	GB818-85	Cross Recess Head Screw	13	M6X10
48	TT5.5F4-200-01-06-00	Beam1	1	Weld assembly
49	TT5.5F4-200-02-01-00	Beam2	1	Weld assembly
50	TT5.5F4-200-01-07	Shaft sleeve 1	4	
51	TT5.5F4-200-01-10	Shaft sleeve 2	4	
52	TT5.5F4-200-01-08	Idler wheel1	4	
53		Bushing 3	1	L=34
54	SGM-802-08	Locating plate	6	
55		Ball knob	1	φ35XM10 black backlite
56	TT5.5F4-200-01-11	Safety handle	1	
57	GB70-85	Hexagon socket head cap head screw	8	M6X20
58	TT5.5F4-200-01-12-00	Safety tie bar 1	2	Weld assembly
59	GB117-86	taper bolt	4	D4x35
60	SGM-804-10	Safety joystick-connecting block1	2	
61	TT5.5F4-200-01-13-00	Safety tie bar 2	2	Weld assembly
62	GB6170-86	Hexagon nut	40	M8
63	GB97.1-85	Flat washer	34	d8
64	SGM-804-14	compressing spring	8	
65	GB91-86	Cotter pin	8	d2.5X20
66	SGM-804-04	Spring rod	8	
67	GB894.1-86	Snap ring	6	d10
68	GB6170-86	Hexagon nut	17	M6
69	SGM-804-07	Drag block	4	
70	TT5.5F4-200-01-14-00	Safety block 1	2	Weld assembly
71	TT5.5F4-200-01-15-00	Rope breaking safety block 1	2	Weld assembly

72	GB894. 1-86	Snap ring		d16
73	SGM-804-09	Safety joystick-connecting block	2	
74	TT5. 5F4-200-01-16-00	Safety block 2	2	Weld assembly
75	GB818-85	Cross Recess Head Screw	13	M6X10
76	GB95-85	Flat washer		d10
77	TT5. 5F4-200-01-17	Beam cover	4	
78	TT5. 5F4-200-01-18-00	Rope breaking safety block 2	2	Weld assembly
79	TT5. 5F4-200-01-19	Rope breaking safety ball	4	
80	SGM-802-11	guide bush	2	
81	GB894. 1-86	Snap ring		d10
82	TT5. 5F4-300-03	Steel cable	2	
83	GB70-85	Hexagon socket head cap head screw	10	M8X55
84	GB93-87	Spring washer	14	d8
85	GB6170-86	Hexagon nut		M8
86	GB97. 1-85	Flat washer		d8
87	SGM-805-13	Steel cable horse2	1	
88	SGM-805-12	Steel cable horse1	1	
89	SGM-805-20	Oil cylinder fitting	1	
90	SGM-803-15	Vitta binder plate	4	
91	GB818-85	Cross Recess Head Screw	4	M6X8
92	GB97. 1-85	Flat washer	14	d6
93	GB894. 1-86	Snap ring	1	d30
94	TT5. 5F4-300-06	Hydraulic hose	1	L=4. 5m
95	TT5. 5F4-300-07	Axle	2	
96	TT5. 5F4-300-08	Limit bolt	4	
97	SGM-802-08	guide plate		
98	GB818-85	Corss recess head screw	4	M6X12
99	GB93-87	Spring washer	4	d6
100	SGM-805-14	Steel cable horse3	1	
101	SGM-805-15	Steel cable horse4	1	
102	GB70-85	Hexagon socket head cap head screw	2	M8X40
103	GB97. 1-85	Flat washer		d8
104	TT5. 5F4-300-11-00	Guide plate	1	Weld assembly
105	TT5. 5F4-300-12	Block up	1	
106	TT5. 5F4-300-13	Oil cylinder subassembly	1	

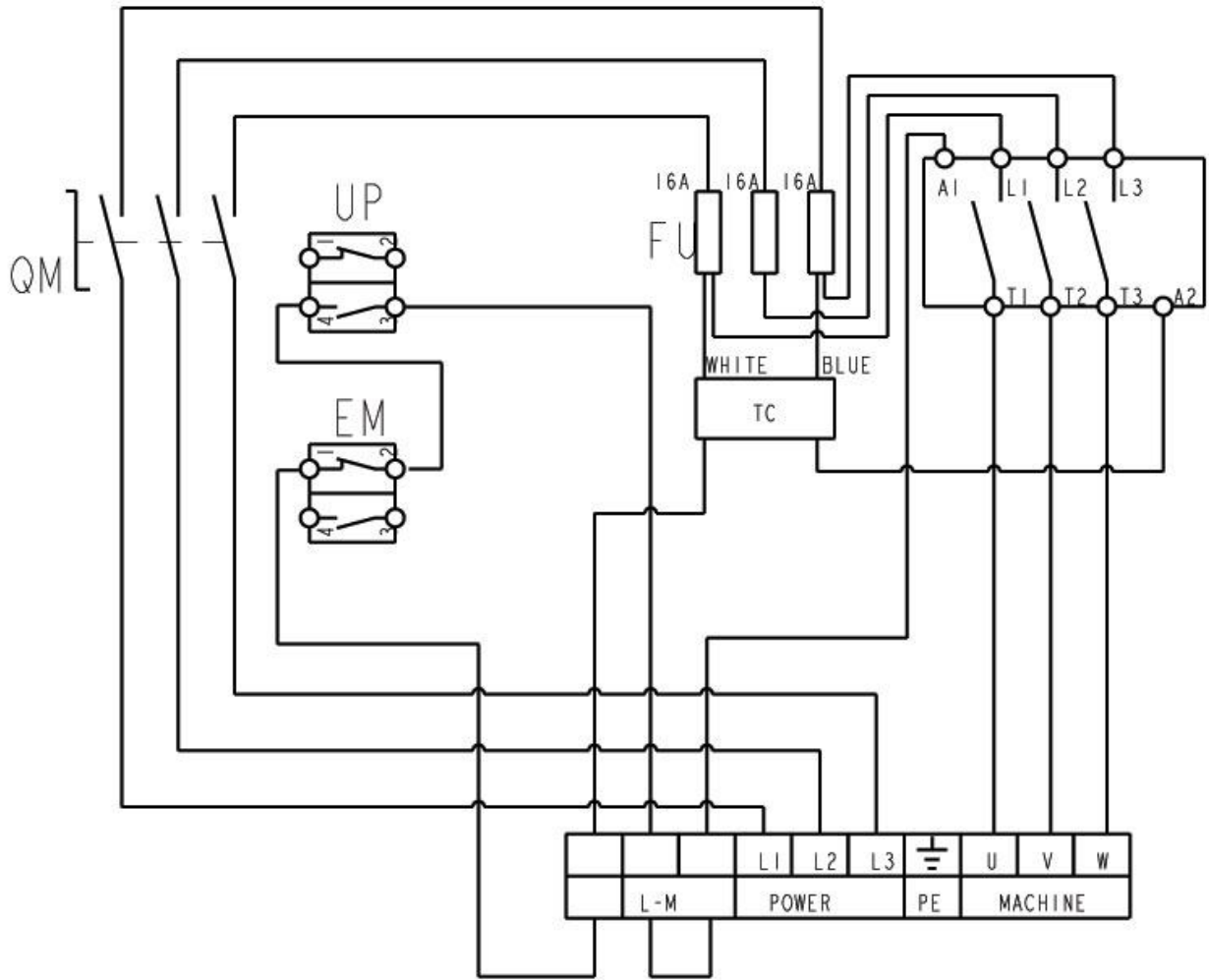
107	TT5.5F4-300-14	Oil cylinder spindle	1	
108	TT5.5F4-300-15	Wheel2	2	
109	TT5.5F4-300-16	Wheel3	1	
110	TT5.5F4-300-17	Wheel4	2	
111	TT5.5F4-300-23	Wheel shaft sleeve	1	
112	GB/T15856.1-1995	Thrust ball bearing	2	Code name 51206
113	GB/T 301-1996	Cross recessed pan head tapping screws	8	ST4.2
114	SGM-803-16-01	Bolt	8	
115	GB1102-74	Φ1.5 Steel cable	8	
116	GB6893-86	Aluminum alloy bushing	16	
117	SGM-803-08	Thread brace rod 1	8	
118	GB97.1-85	Flat washer		d6
119	GB6170-86	Hexagon nut		M6
120	GB4142-84	Round hook circuit coil spring	8	
121	TT5.5F4-300-18-00	Ball cover	2	Weld assembly
122	TT5.5F4-300-19-00	Cover platel	2	Weld assembly
123	TT5.5F4-300-20-00	Cover plate2	2	Weld assembly
124	TT5.5F4-300-21-00	Cover plate3	2	Weld assembly
125	TT5.5F4-300-22-00	Steel cable fixed block	1	Weld assembly
126		Ball	42	
127	SGM-803-14	Safetu drive link hook	1	
128	GB6170-86	Hexagon nut		M6
129	TT5.5F4-400-01-00	Safety drive link	1	Weld assembly

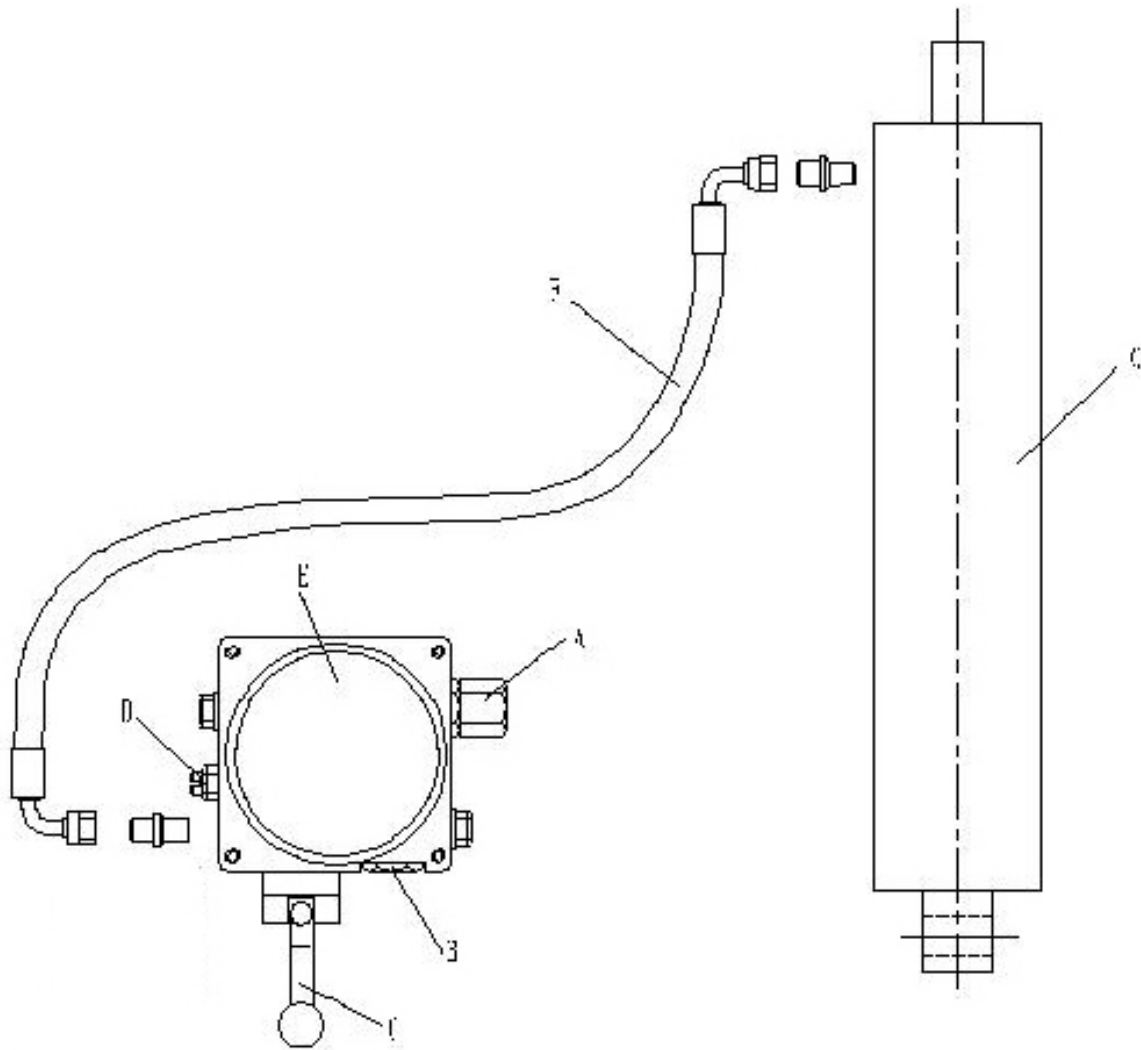
TT5.5D-4 circuit diagram

220V



380V





	<p>Operator must stay away from lift area while the lift is being operated.</p> <p>The lift could only be used in explosion-proof environment.</p> <p>Only one person could operate the lift. Lift person is forbidden.</p> <p>Please use No. 46 wearable hydraulic oil.</p> <p>Concrete strength up to 3000PSI (>2.1kg/mm²)</p>
<p>CAUTION</p>	