



Warnings:

1. This equipment is for the use of professional technical personnel or maintenance personnel, and before operation the lift, please read it thoroughly.
2. Clear surrounding of lift when raise or lower.
3. When ascending or descending around the lift ban somebody to stand, the car which lifted ban someone sitting.
4. The machine should be used within its capacity.
5. In operation, the grip brake of the automobile being lifted should be on and fix it with skid-wood to prevent from slide (self-prepared by user).
6. Main locked should be making the two platforms at the same level .
7. Keep eyes on the two platforms when raise. Stop rising if two platforms are not at the same level. continue using the machine after checking.
8. When lift descending, have a short raise, then declined to support insurance claw, observed whether both insurances claw completely rose or stop declining.
9. Main engine raise to limit switch, limit switch “QS” working, main engine reduced to a certain distance, far away from the limit switch “QS” , master rise again, loosen rising button machine stop working. Four wheel alignment detection should be locked the same level of

insurance teeth.

10. This product is suitable for indoors, such as needed in outdoors, please make sure take good rain, moisture proof, anti freezing measures.
11. This product is only suitable for lifting the use of automobile maintenance, Do not use the product for any other purpose. such as use of other aspects ,the company is not responsible.
12. Near the lift should have fire protection devices (user owned)

Special specification

1. Equipment damage which in the process of shipment shall be claim by the buyer to the carrier.
2. Design and manufacture have considered the safety performance. However, proper training and thorough operation can increase the safety. Not reading illustrates, shall not operate or repair the equipment.
3. Identify the motor and the current state requirement of the nameplate, by professional and qualified electrician to connect.
4. Products of the company to the part structure improvement without notice. On the previous sales product updates without any obligation to notify customer.
5. Please carefully to read and fill in the instruction of the 《warranty card》 , feedback to the distributor and the company filing. As the evidence of after service. Or regard give up the enjoyment of the

corresponding service power, responsible for themselves responsibility.

6. Not be more than the rated lifting weight.
7. Please carefully read the warning marks.

Catalogue

- 1. Characteristic introductions -----**
- 2. Main technical parameters-----**
- 3. Outline dimension -----**
- 4. Installation and debugging -----**
- 5. Maintenance and repair -----**
- 6. Lift hydraulic system -----**
- 7. Lift pneumatic system-----**
- 8. Lift electric system-----**
- 9. Troubleshooting -----**
- 10. Explosion diagram-----**
- 11. Packing list-----**
- 12. Warranty card-----**
- 13. Certificate of conformity-----**

1. Characteristic introductions:

Scissor lifts suitable for use in four wheel alignment, vehicle tests, maintenance and care for various types of small automobiles.

Features as following:

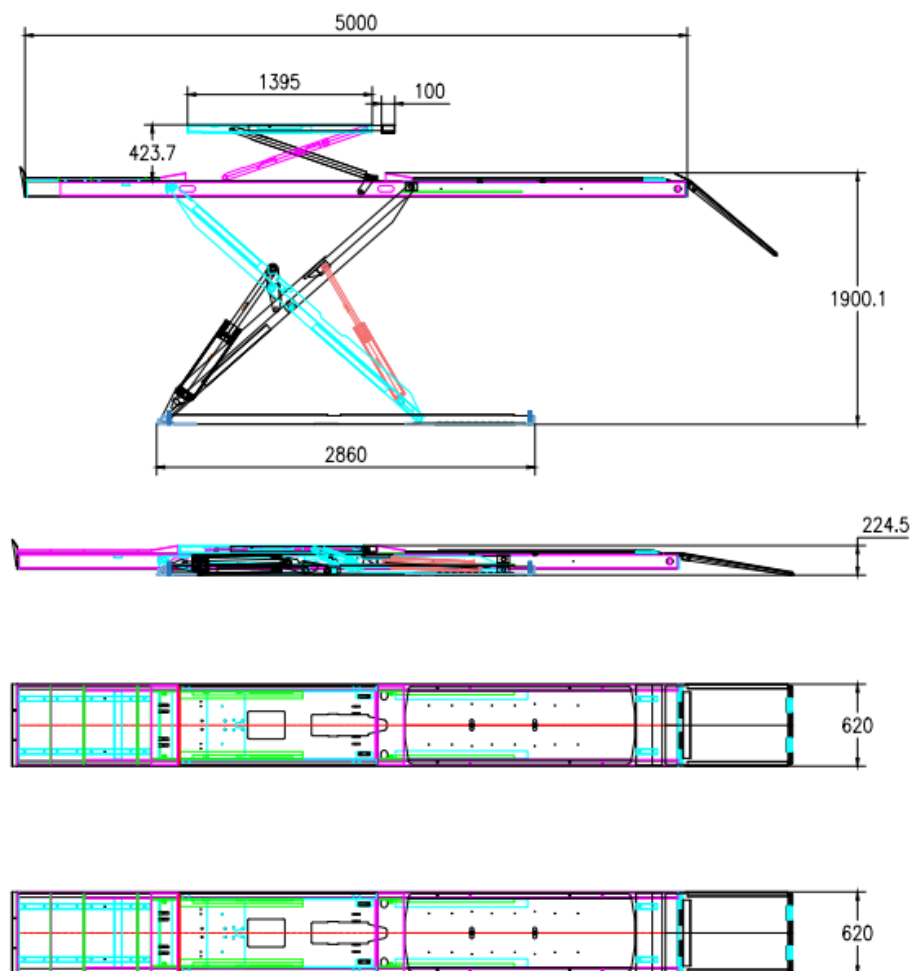
- 1) Utilizing ground hidden flat structure, and cover small space.
- 2) Pneumatic self-locking, safe and reliable.
- 3) Hydraulic system adopts an integrated valve plate system with imported seal; ensure the stability and working life of the machine.
- 4) With manual pre-interface, when power supply is off, lift can be down by manual.

2. Main technical parameters:

Max. lifting capacity	5000kg
Lifting height	Main 1900mm jack 423.7mm
Lifting time	Main 1.2m/min jack 1.2S
Platform length	4200mm/4500mm/5000mm

Platform width	600mm/600mm/620mm
Motor power	3.0kw-380V 或 3.0kw-220V
Rated oil pressure	24Mpa
Air pressure	0.6-0.8Mpa
weight	2155kg

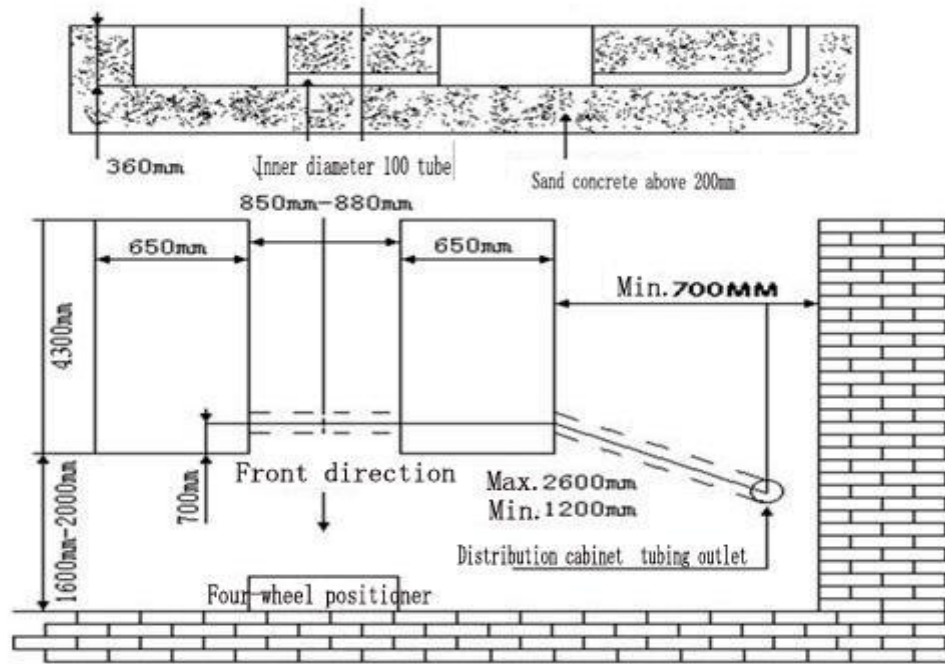
3. Outline dimensions (see chart 1):



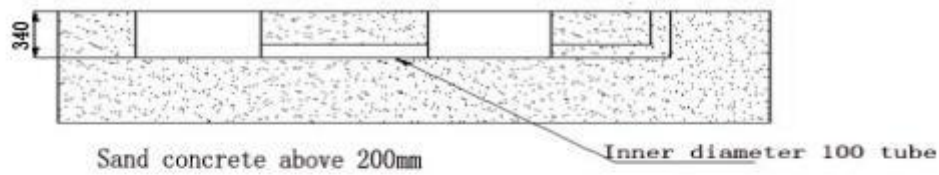
4. Installation and debugging:

Foundation:

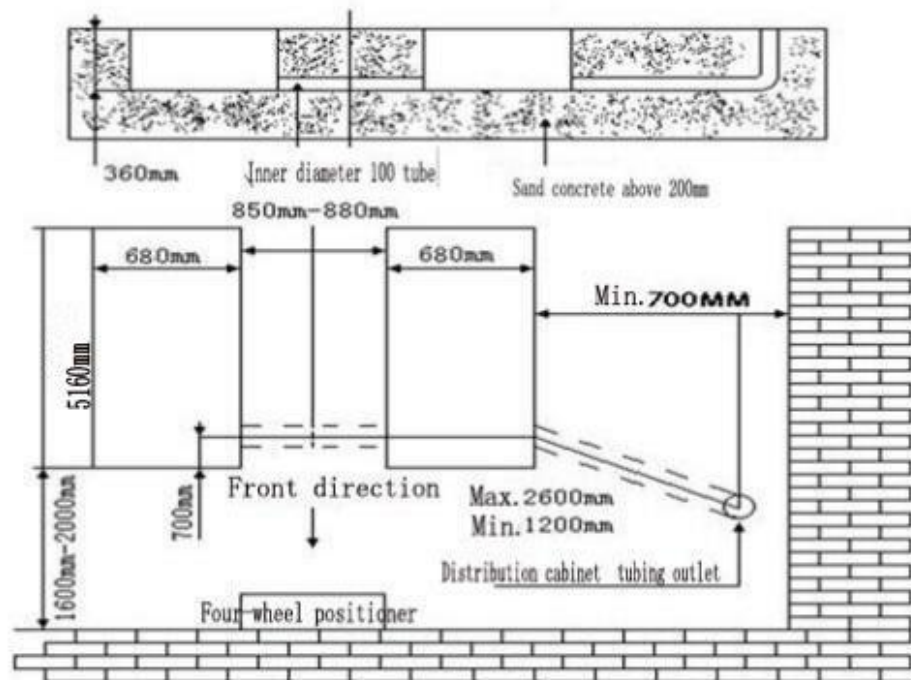
- 1) According to foundation diagram (see chart 2) to prepare. The level error between two platforms dig must be within 5mm.



Foundation :4200mm



Foundation :4500mm



Foundation :5000mm

- 2)**Prepared equipment:** Angle plate is located on the vehicle head , the lateral slide position locked outside of the machine, connect the master engine pipe well then put it into foundation groove.
- 3)**Adding hydraulic oil:** Fill 18L the hydraulic oil to the pump station (hydraulic oil provided by the customer ,32# winter /46#summer).
- 4)**Main engine pipeline connection:** According to the hydraulic system connection (see Figure 3) connect oil pipe (avoid sand and mud into the pipe)
- 5)**connected air source,adjusted steam pressure gauge 0.6-0.8Mpa**, three kinds of sequence :
 - *First unlock
 - *Secondary unlocking
 - *Steam top oil (two sub cylinder cavity), see chart 4

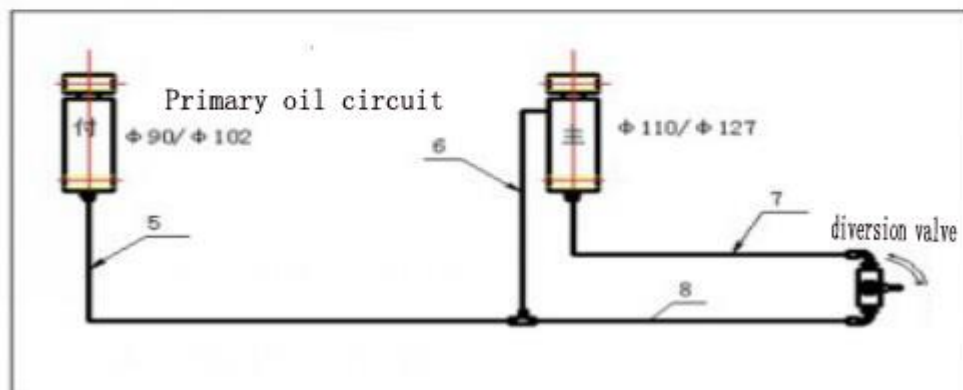
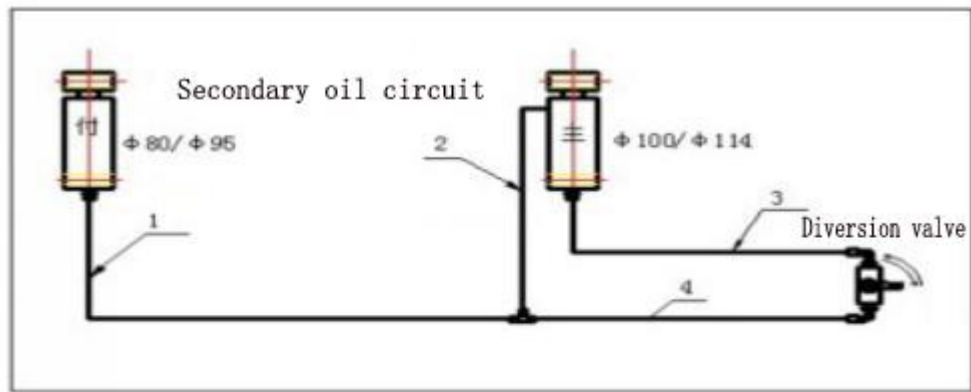


Chart 3.Hydraulic system connection

Oil pipe size and joint type

NO.	NAME	Specifications	Note
1	secondary auxiliary cylinder series tube	5760mm	Double straight Joint $\phi 8 \times 14 \times C$ type
2	secondary auxiliary cylinder connection pipe	4230mm	Double straight joint $\phi 8 \times 14 \times C$ type
3	secondary main up/down tubing	7770mm	One curved and one straight $\phi 8 \times 14 \times C$ type (90° curved) $\phi 8 \times 14 \times C$ type (Double straight)
4	secondary repair oil pipe	3820mm	One curved and one straight
5	first auxiliary cylinder series tube	2000mm	Double straight joint $\phi 8 \times 14 \times C$ type
6	first primary cylinder nozzle	1000mm	One curved and one straight (same above)
7	first primary cylinder lift/down main oil pipe	4210mm	One curved and one straight

			(same above)
8	first repair oil pipe	3880mm	One curved and one straight (same above)

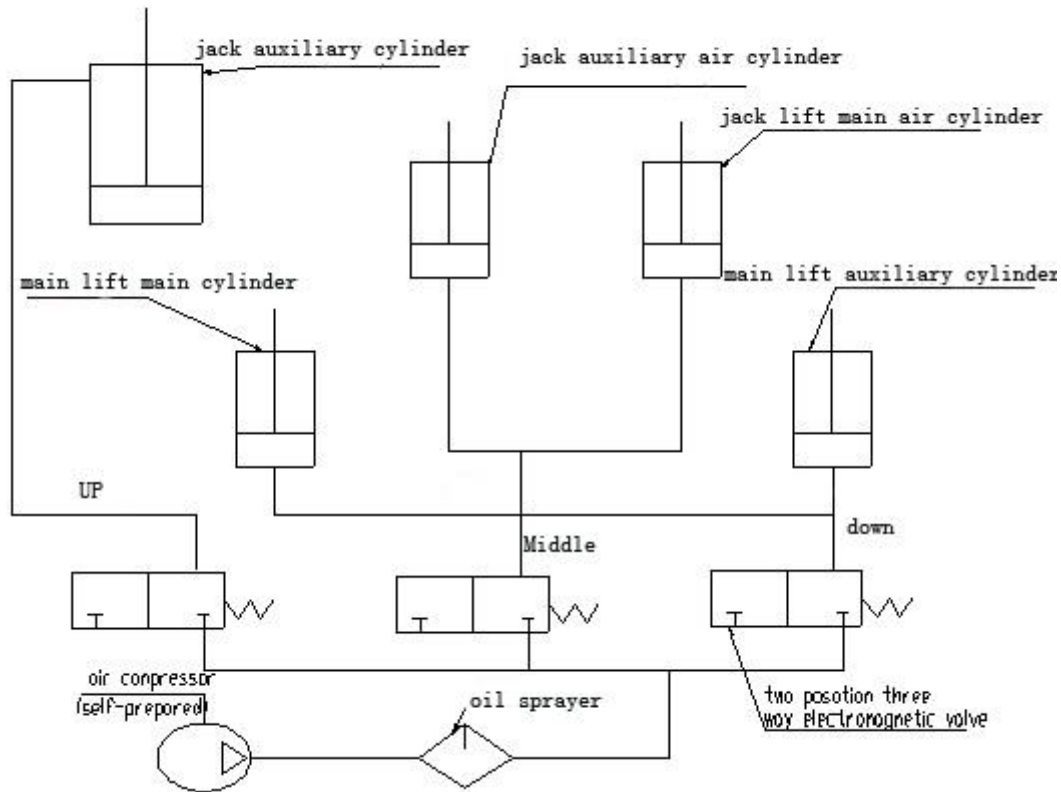


Chart 4. Pneumatic system

6) First main engine, auxiliary leveling:

- 6.1 First auxiliary fill oil adjustment, main engine rise to top, and then convert valve stem from the direction of KA2 clockwise moved to 90° , auxiliary rose to top, at the same time we must press the “lock” button and “ down ” button, platform down, the motor rotation delay and stop can loose the “lock” button. (lock gear is to delay time relief, in order to prevent damage cylinder). Auxiliary engine down the end when press “down” button and don't release, after hear tank exhaust sound then release the “down ” button, repeated 2-3 times, basically cylinder air are finished.
- 6.2 Rose auxiliary machine to top, moved conversion valve stem back, and then press “lock” button and “down” button, down to end, leveling, adjust levelling with levelling screw, and then press “down” button, delay rise and down time, check two platforms are synchronous, if not removed converted stem KA2 back to 90° .The auxiliary machine high ,press “lock” button adjusted to levelling, if low ,press “up” button to oil supplement.
- 6.3 Rise about 1M, press “lock” button to down, put up lock gear fall to down lock gear, press “down” button, check delay time of rise, if cylinder can support lock gear, if not , please adjust delay timer to delay, about 3 seconds, lock gear can open and down.

6.4 Fitted travel switch, the maximum of the equipment is not allowed to exceed 1.7m, and the rest is reserved space.

7) Secondary main and auxiliary of platform levelling:

7.1 Secondary auxiliary cylinder exhaust, first secondary master cylinder rise to top, then clockwise moved converted the stem KB2 to 90° , unloading the secondary auxiliary cylinder;s exhaust screw, press up button rise until the oil discharged from the exhaust mouth so far, screwed it, and then repeated 1-2 times, rise second button to top, will convert stem KB2 moved back, down to the end.

7.2 Secondary auxiliary machine leveling method same with first.

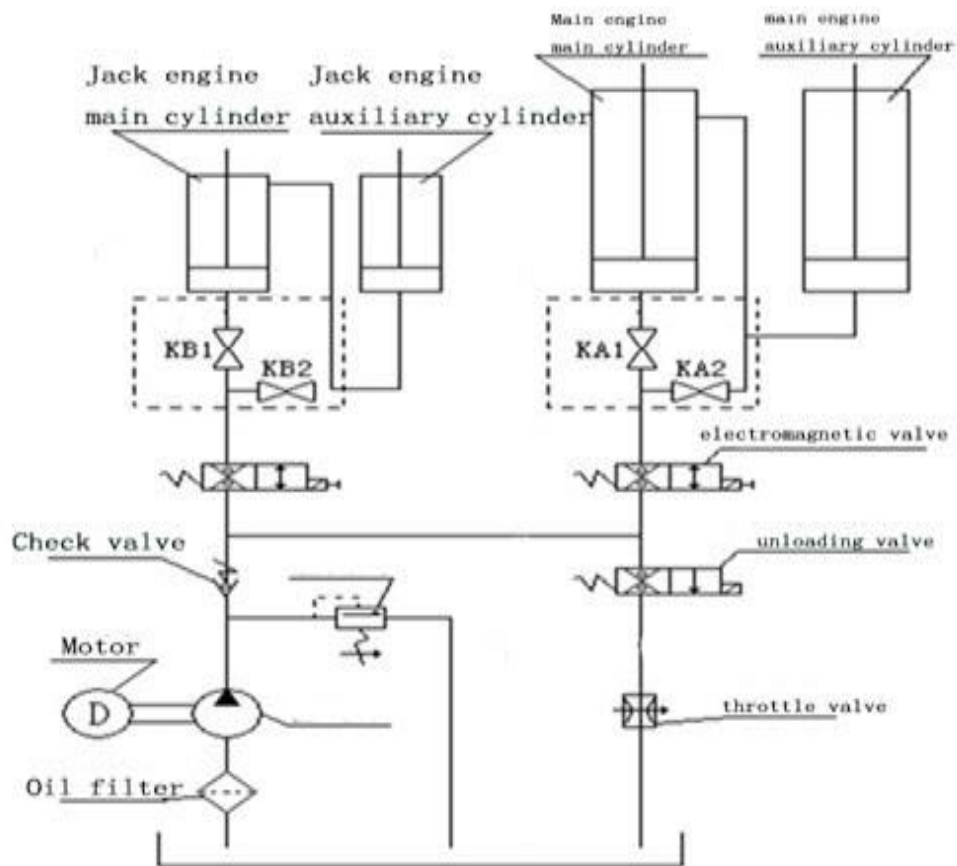
8) Installation and level adjustment: Make insurance tooth of main engine locked in the same tooth insurance, adjust spacing, with M18 impact drill and fixed expansion bolt (first do not tighten), if the foundation of concrete is not good, also can use M16 impact drill, with horizontal feet or water pipe for leveling (both sides of lift have adjustment bolt).around two platforms error is $\leq 3\text{mm}$, the lowest level to peak platform error $\leq 10\text{mm}$. Adjusted well to fill up with a steel plate or cement. Final fastening expansion bolt. Newly installed machine, check whether the loosening of the expansion screws to deal with it in timely.

5. Maintenance and repair:

- 1) Refuel the hydraulic power oil when use the machine for the first time or for a long time (more than a month) unused. keep the oil level height
- 2) Keep the moving parts of up and down rolls clean, and lubricate with grease regularly.
- 3) Clean the oil filter in the oil tank every three months; replace the hydraulic power oil after first three months. Then replace the hydraulic power oil once every year. Clean the oil tank and the oil filter well with gasoline when replacing the oil.
- 4) Mount a manostat if the fluctuating value of the local voltage is over 10%.

6. Lift hydraulic system:

- 1) Principle (see chart 5) ,adjust the throttle valve can change the speed of decline, adjusting the overflow valve can change the system pressure (which has been set well before leaving factory).
- 2) Make sure the motor rotation direction is correct (clockwise) when install the lift first time .It may damage the gear pump if the motor runs in wrong direction for a longtime.
- 3) When the power cut happens suddenly, cut the power. raise the safety catch to pad it with something, if the catch is locked, use the cattle vehicle (self-prepared by users)connect three-way valve make the platform can lift insurance claw, open the unloading valve “DOWN” button (red head) , at the same time with the tip of the hard drive the corresponding electromagnetic valve the back end of the inner hole can be lowered the platform (auxiliary first and then main engine),after completed manually down button tightening, then screwed it, otherwise, in normal power supply, the lift can not work.



7. Lift pneumatic system:

Pneumatic system (see Figure 4), lift “UP” or “DOWN”, two-position three-way solenoid valve electrified is turned on, and then the cylinder holds the safety catch up. After losing electricity the insurance claw will down by gravity, in order to improve the rate of decline of auxiliary, when auxiliary decreased the auxiliary engine cylinder cavity connect compressed air.

8.Lift electric system:

Electric diagram 6

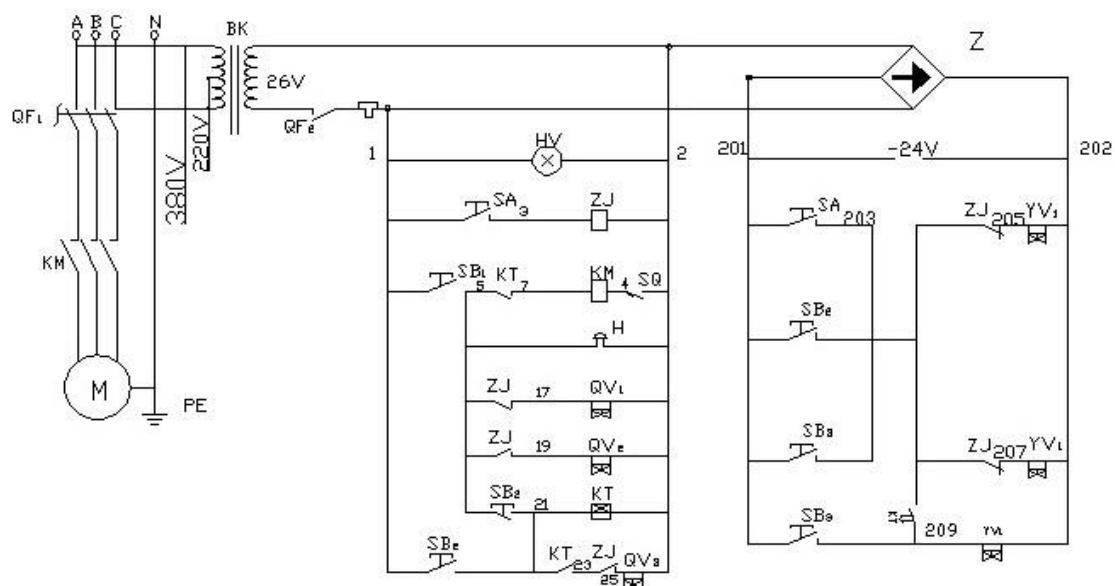


Chart 6. Electric diagram

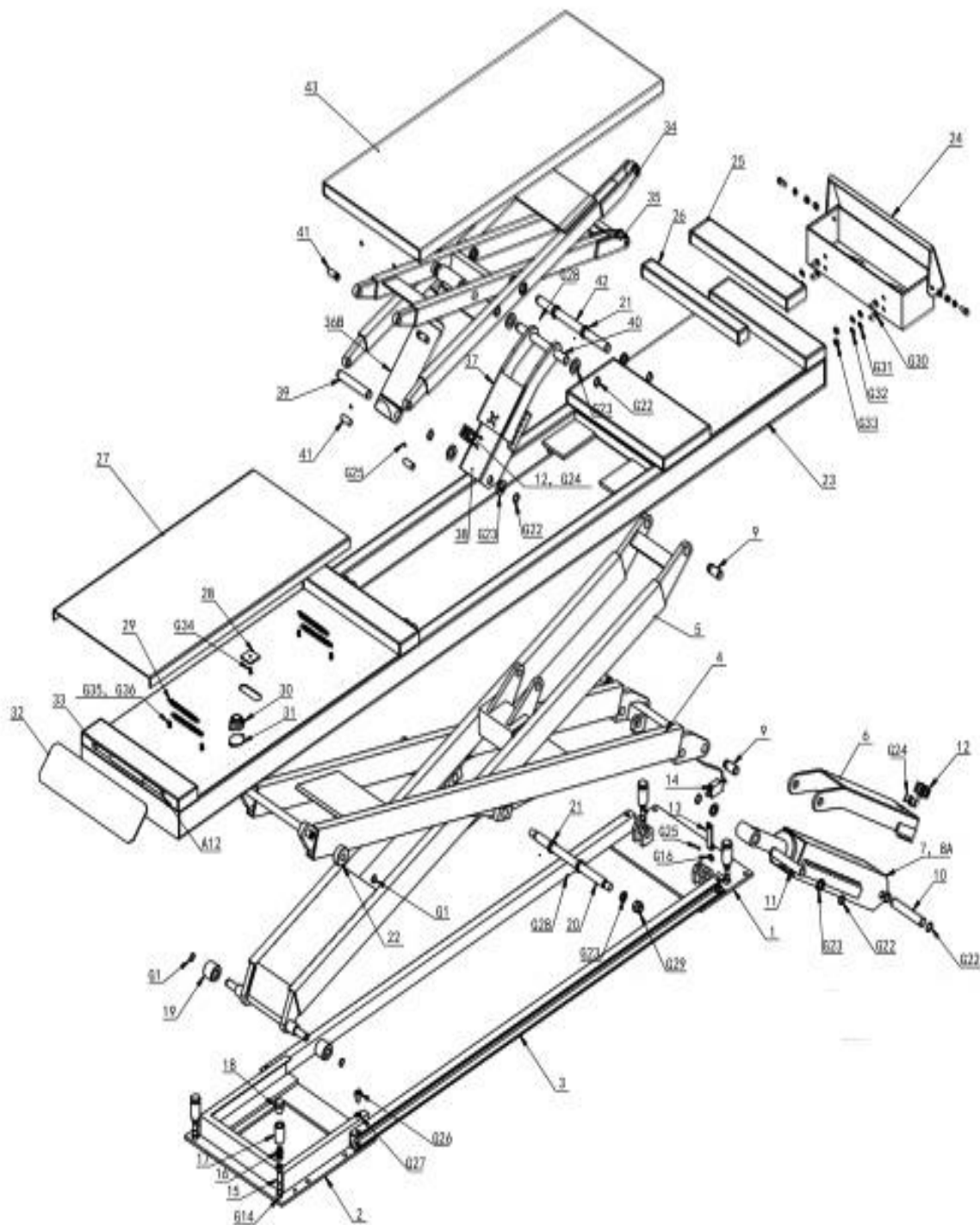
NO.	Code	Component Name	Specification	Quantity
1	QF1	Universal changeover switch	N11	1
2	BK	Transformer	NDK-80 380,220V/26V	1
3	QF2	Miniature circuit breaker	D847-631PC3A	1
4	HL	Current indicator light	VD16 AC24V	1
5	H	Buzzer	ND16 AC24V	1
6	SA	Change-over switch	BD-21	1
7	SB1,SB2,SB3	Button	BA-21	3
8	KM	AC contactor	CT*2 P10,AC24V	1
9	ZJ	Miniature electromagnetic relay	JZX-22F,AC24V	1
10	KT	Time relay	JSYZ6-5S,AC24V	1
11	QV1-3	Pneumatic solenoid valve	3V210-8,AC24V	3
12	YV1-3	Hydraulic solenoid valve	VSV-08-3NCSPVM DC24	3
13	Z	Rectifier block	KBDC35-10	1
14	M	Motor	YX90-3.0KW-2P}380V YX90-3.0KW-2P}220V	1
15	SQ	Travel switch	BLXW-6/11ZL(T311)	1

9.Troubleshooting:

TROUBLES	POSSIBLE REASONS	WAYS TO SOLVE
unload main, auxiliary machine is not level, have loaded uneven.	The main engine cavity leading to auxiliary engine oil road have the air	After the main engine raise to highest, open the leveling valve, press “UP” button, release the main hydraulic cylinder on the cavity which lead to the auxiliary of the oil pipe’s joint, when the air is expelled and locked pipe’s joint; and the auxiliary raise to the highest position, press “DOWN” button, the auxiliary down to the lowest point, repeat it until ensure no air in the pipe. Adjust the auxiliary’s leveling valve, in order to achieve balance.
Uneven	1. The main or auxiliary engine has leakage. 2. The main or auxiliary cylinder have leakage 3. Balancing valve cannot be closed of auxiliary	1. Repair or replace. 2. change 3. change
slowly rising	1. Hydraulic oil shortage 2. Insufficient pressure adjustment 3. Main’s leveling valve closed 4. Oil leakage 5. Main and auxiliary ‘s hydraulic cylinder junction obstruction	1. Supply hydraulic oil 2. Adjust pressure bolt 3. Open the leveling valve 4. change 5. clean the joint
Can not raise	1. No power supply 2. “Up” button fault 3. Generator fault 4. Raise and fall valve damaged 5. limit switch damaged 6. limit switch’s wire is loose or short circuit 7. loss or lack of the hydraulic oil 8. Motor’s electromagnetic switch damaged 9. The coil of the AC contactor is damaged	1. power supply 2. repair or replace 3. repair or replace 4. clean or replace 5. change 6. repair or replace 7. supply of hydraulic oil 8. change 9. change

Can not fall or security cover can not open	1. No power supply 2. Down button fault 3. lifting or fall valve damaged 4. No compressed air 5. Air electromagnetic valve damaged 6. Down safety valve damaged 7. Down safety switch line loosed or short circuit 8. joint air leakage	1. Power supply 2. Repair or replace 3. Clean or replace 4. Supply compressed air 5. change 6. Repair or replace 7. Repair or replace 8. Repair or replace
Down slowly	1. Main's leveling valve closed 2. Raise or fall's valve with rarity 3. Raise or fall's valve flow is too mall 4. Master、 auxiliary hydraulic cylinder junction obstruction	1. Closed leveling valve 2. clean 3. Adjust the raise or fall's valve 4. clean

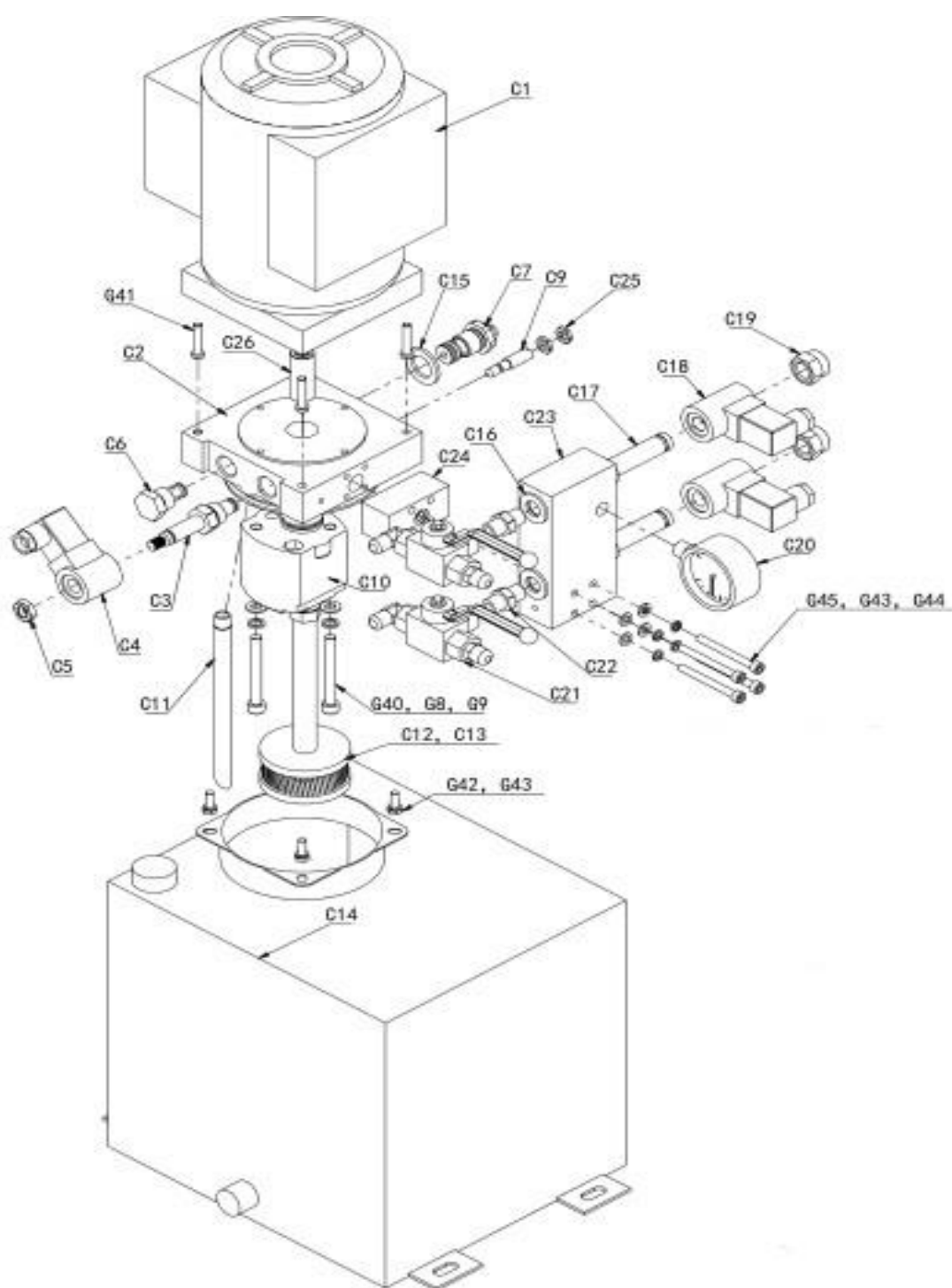
10. Explosion diagram:



序号	名称	型号	数量
1	Tubing box	MT-DJ5000-10-01-01	2
2	Big scissors base	MT-DJ5000-01-01-00	2

3	Hexagon headed bolt	GB/T 5782-2000 M16x40	24
4	Oil free bearing	SF-1 3550	4
5	Main oil cylinder bottom shaft	MT-DJ5000-00-00-19	2
6	Main oil cylinder	MT-DJ5000-50-00-00	2
7	helper arm	MT-DJ5000-05-01-00	2
8	Oil free bearing	SF-1 3250	4
9	helper arm retaining sleeve	MT-DJ5000-00-00-50	2
10	helper arm roller	MT-DJ5000-00-00-05	4
12	Oil free bearing	SF-1 3540	4
13	Main oil cylinder top shaft	MT-DJ5000-00-00-21	2
14	helper arm axis	MT-DJ5000-00-00-20	2
15	helper arm lower shaft	MT-DJ5000-00-00-22	2
16	Shaft circlip - Type A	GB893.1-83 30	16
17	Type 1 non-metallic insert hex lock nut	GB/T 889.1-2000 M24	4
18	Oil free bearing	SF-1 3040	8
19	Shaft circlip - Type A	GB893.1-83 30	4
20	Auxiliary cylinder bottom shaft	MT-DJ5000-00-00-25	2
21	Oil free bearing	SF-1 3045	2
22	Shaft circlip - Type A	GB893.1-83 30	4
23	Auxiliary cylinder head shaft	MT-DJ5000-00-00-26	2
24	Oil free bearing	SF-1 3045	2
25	Auxiliary cylinder	MT-DJ5000-60-00-0	2
26	Main platform inner support arm	MT-DJ5000-03-01-00	2
27	Sub platform lower slider shaft	MT-DJ5000-00-00-14	2
28	Sub platform lower slider	MT-DJ5000-00-00-07	4
29	Oil free bearing	SF-1 2550	8
30	Middle axis of sub platform	MT-DJ5000-00-00-29	4
31	Slide roller	MT-DJ5000-00-00-01	4
32	Upper slider	MT-DJ5000-00-00-04	4
33	Shaft circlip - Type A	GB893.1-83 25	4
34	Sub platform oil cylinder bottom shaft	MT-DJ5000-00-00-27	2
35	Oil free bearing	SF-1 2550	8

36	Sub platform oil cylinder	MT-DJ5000-70-00-00	2
37	Hexagon socket head cap screw	GB/T 70.1-2000 M10X30	8
38	Fixed support ear for outer arm of sub platform	MT-DJ5000-00-00-06	4
39	Upper cover welding	MT-DJ5000-06-01-00A	2
40	Ultra thin side slide frame	MT-DJ5000-0-06-06	12
41	Fixed shaft of approach bridge	MT-DJ5000-00-00-33	4
42	wheel	MT-DJ5000-00-00-16	4
43	board	MT-DJ5000-09-01-00	2
44	Uphill ramp	MT-DJ5000-06-05-01	2
45	Upper cover side sliding plate	MT-DJ5000-06-01	2
46	Sub platform upper cover arm shaft	MT-DJ5000-00-00-31	4
47	Sub platform inner arm	MT-DJ5000-22-01-00	2
48	Sub platform	MT-DJ5000-23-01-00	2
49	Sub platform outer arm	MT-DJ5000-21-01-00	2
50	Welding of equal height inclined plates	MT-DJ5000-0-06-05-00	4
51	Sub platform safety lock	MT-DJ5000-08-01-00	2
52	Button box 400 welding	MT-DJ5000-0-06-06-00	2
53	Button box 100 welding	MT-DJ5000-0-06-06-00	2
54	Button box 250 welding	MT-DJ5000-0-06-06-00	2
55	Car bumper	MT-DJ5000-06-09-00	2



11. Warranty card

User name		Contact number		Date of purchase	
Contact add					
Product ID		Serial number		Invoice number	
Maintenance place name				Warranty phone	

Maintenance record card

date	Record content	Change parts content				broker	appendix
		mane	model	specification	quantity		

Warranty Statement

一、 This card and the purchase invoice user should be properly preserved, warranty must simultaneously show

二、 The equipment from the date of invoice to normal use, without overhaul and machinery parts breakdown by the factory identification indeed manufacturing due to bad, according to the provisions of the warranty period, by virtue of this sheet the factory is responsible for warranty. Due to improper storage, supply voltage mismatch or not according to the instruction manual method using operation etc. and other improper use of damage, it is not covered by the warranty. (this machine warranty for one year)

12. Packing list

Name	quantity	Attachment
①Main	1	Oil pipe:3 Main oil pipe:3 three-way:2pieces airtube:1 washer: 4 Turning plate: 2 Turning plate axis: 2 Plug pin: 4 setsscrew16*150: 16
②Auxiliary	1	Oil pipe:2 airtube:5
③pump station	1	Instructions:1 copy

