TW SA 42 U V2

Long platform scissor lift
Lifting Capacity: 4200 KG

twinbusch.de

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Read this entire manual carefully before installation or operation of the lift.
Follow the instructions strictly.

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IMPORTANT SAFETY INSTRUCTIONS

1.1 Important notices

Twin Busch offers a one year quality warranty for the whole machine, during which any quality problem will be properly solved .However, we will not take any responsibility for whatever bad consequence resulted from improper installation and operation, overload running or unqualified ground condition.

This model is specially designed for lifting motor vehicles that weighs within its outmost lifting capacity. Users are not allowed to use it for any other purposes. Otherwise, we, as well as our sales agency, will not bear any responsibility for accidents or damages of the lift.

Make sure to pay careful attention to the label of the lifting capacity attached on the lift and never try to lift cars with its weight beyond.

Read this manual carefully before operating the machine so as to avoid economic loss or personnel casualty incurred by wrong operation. Without our professional advice, users are not permitted to make any modification to the control unit or whatever mechanical unit.

1.2 Qualified personnel

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

1.2.2 The electrical connection must be done by a qualified 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 Do not leave the controls while the lift is still in motion.

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

1.3.5 Only properly trained personnel 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 locks are engaged before any attempt to work near or under the vehicle. Never remove safety related components from the lift. Do not use if safety related components are damaged or missing.

1.3.10 Do not rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift.

1.3.11 Check at any time the parts of the lift to ensure the agility of moving parts and the performance of synchronization. Ensure regular maintenance and if anything abnormal occurs, stop using the lift immediately and contact our dealers for help.

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

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

1.3.14 The lift is only to be operated in a dry indoor area.

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

a. Disconnect the power;

b. Empty the oil tank;

c. Lubricate the moving parts with hydraulic oil.

1.4 Training

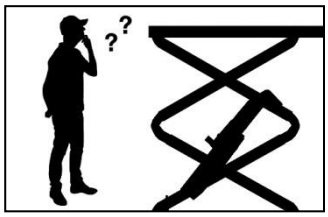
Only qualified people, who have been properly trained, can operate the lift. We are quite willing to provide professional training for the users when necessary.

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

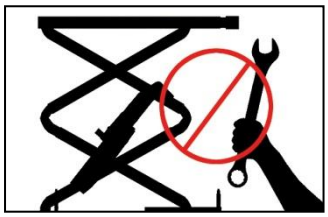
1.5 Warning signs

All safety warning labels are clearly depicted on the lift to ensure that the operator is aware of and avoids the dangers of using the lift in an incorrect manner. The labels must be kept clean and they have to be replaced if detached or damaged. Please read carefully the meaning of each label and memorize them for future operation.

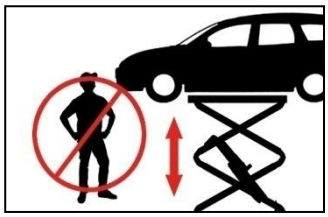
Read the manual before use



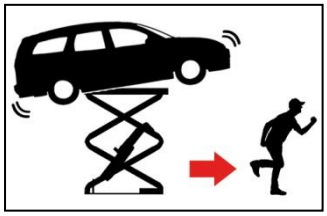
Only trained personnel should use the lift



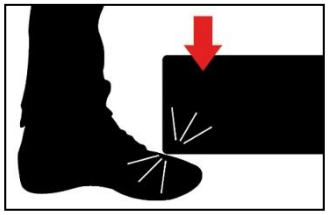
Repairs and service only through authorized personel, never tamper with the safety devices



No unauthorized persons under the lift when in use



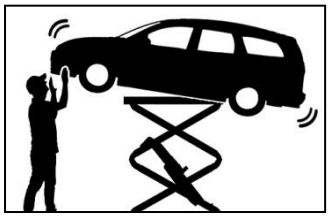
Always leave escape routs clear



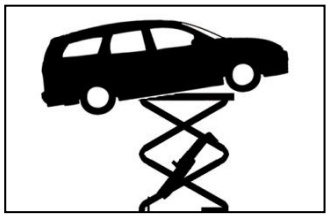
Please take care not to trap your feet

Danger of crushing when letting down

Never use only one side oft he lift

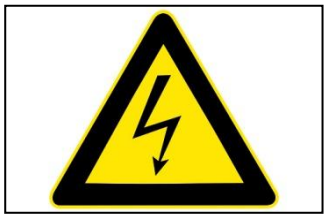


Avoid shaking



Vehicles should be evenly balanced

No obstcles under the lift



High voltage

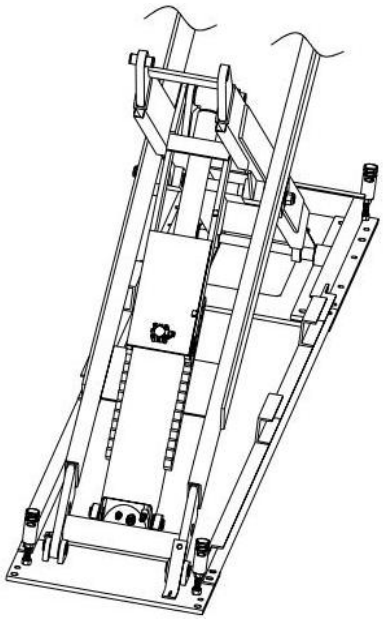
OVERVIEW OF THE LIFT

2.1 General description

This model is in-ground mounted and is mainly composed by two lifting platforms, two base plates, two oil cylinders and a set of power unit. The gear pump works when power supply is connected and meanwhile oil in the pump will push upwards the pistons of oil cylinders. Thus, scissor brackets of the lift rise accordingly. In the process of rising, the mechanical lock will automatically engaged so as to avoid sudden drop down caused by failure of hydraulic system.

Besides, designs like, 24 V control box and limit switch, low-height alarming buzzer, anti-surge valves, etc have fully considered your personal security.

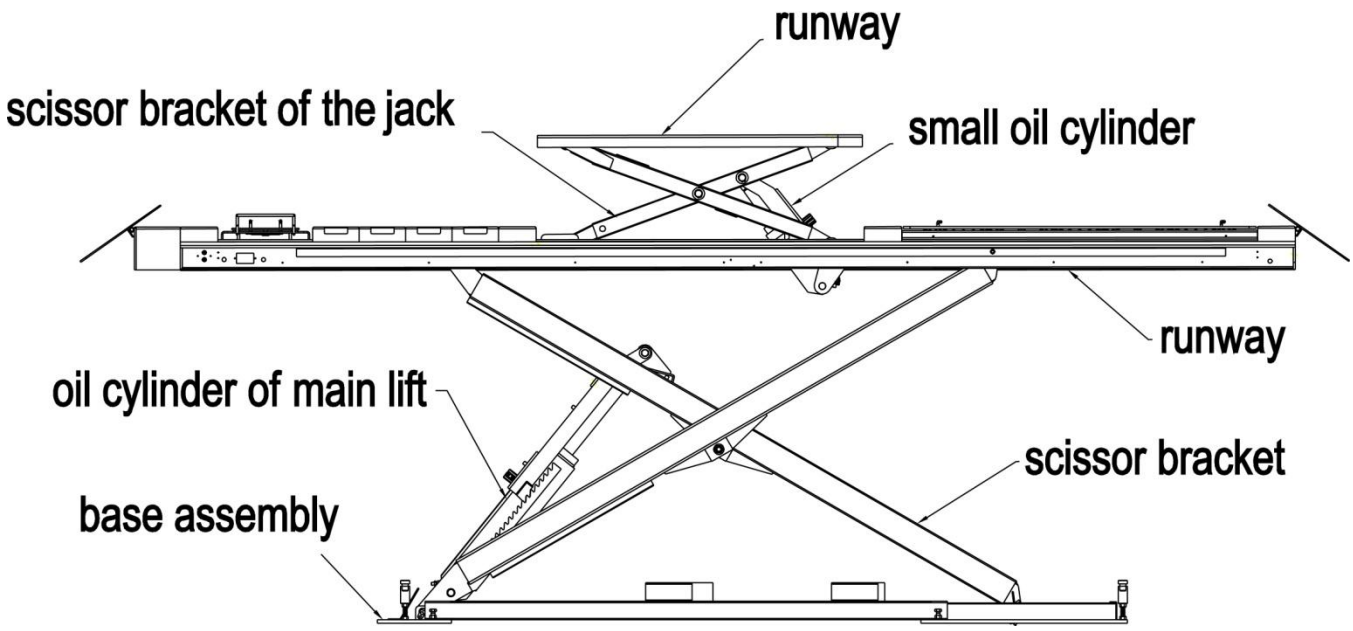
Safety structure:



2.2 Technical data

Rated capacity	4000 kg	8818,49 Lbs
Full raised height	1900 mm	74.80 in
Full lowered height	180 mm	7.08 in
Full raised time (with rated load)	≤55s	
Full lowered time (with rated load)	≤55s	
Hydraulic working pressure (Bar)	200 Bar	2900,75 PSI
Pneumatic working pressure (Bar)	6-8 Bar	87-116 PSI
Rated capacity of the secondary lift	4000 kg	8818,49 Lbs
Full raised height of the secondary lift	450 mm	17,71 in
Oil tank volume	18 L	4,75 Imp.gal

2.3 Construction of the lift



INSTALLATION INSTRUCTIONS

3.1 Preparations before installation

3.1.1 Tools and equipments needed

√ Electrical drill √ Open wrenches

√ Screw drivers √ Adjustable spanner

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

Unfold the package and check if any parts are missing 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, Twin Busch 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 3000 psi, tolerance of flatness less than 5 mm and minimum thickness of 200 mm. In addition, newly poured concrete must dry for 28 days.

3.2 Precautions for installation

3.2.1 Joints of oil hose and wiring must be firmly connected in order to avoid leakage of oil hose and looseness of electrical wires.

3.2.2 All bolts should be firmly screwed up.

3.2.3 Do not place any vehicle on the lift the first time the lift is operated.

3.3 Installation

Step1: Choose installation site.

Use a fork lift to place the machine at installation site as required. See Annex 3 for space requirements on the installation site.

Step 2: Connect oil hoses.

Connect the oil hose as per the diagram for oil hose connection. (This step is very important and it is quite necessary to understand the diagram of oil hose connection in Annex 4 before operation)

Step 3: Connect air hoses.

Connect the pneumatic release system by the diagram of air hose connection in Annex 6.

Step 4: Connect wires.

Connect the power supply and the quick connections of limit switch.

Step 5: Fill with hydraulic oil.

Pour 16 liters of anti-abrasion hydraulic oil into the oil tank. The level of oil shall be 10mm to 40mm distance from the top of the tank. (You may measure by the feeler attached on the cap of the tank)

Note: As the running speed of the lift is mainly decided by the density hydraulic oil, we suggest using NO.46 hydraulic oil when average temperature of the location is above 18 degree Celsius and using NO.32 hydraulic oil when temperature is below 18 degree Celsius.

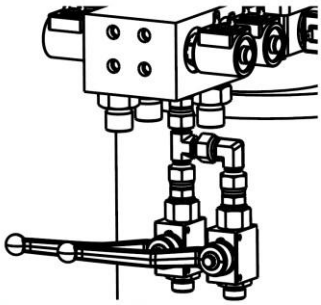
Step 6: Leveling - Manual leveling of runways of the main lift.

1) Connect the power supply and switch on the power switch on the control panel until the green indicator light shines.
2) Press the “UP” button for 30 seconds. Normally at least one of the two runways will rise at this movement. **(In the case the lift is equipped with three phase power supply and the motor works but the runway does not move upwards after the “UP” button has been pressed for 30 seconds, the operators needs to change the phase order of the motor’s wiring)**
3) Open the ball valve in the control unit and then press “UP” or “DOWN” button to adjust the height of one runway until it reaches the same height as the other.

4) Close the ball valve.

5) Repeat the above leveling steps if synchronization not achieved.

Manual leveling of jacking beams



leveling valve closed

1) Turn the option switch on the panel to the position of “Jack”.

2) Open the manual ball valve for the” Jack” on the hydraulic block in the control unit.

3) Press the "UP” button until both runway of the jack go utmost top to vent air in cylinders.

4) Close the ball valve.

5) Press DOWN I, until jacks lower to the lowest position.

PRESS UP BUTTON TO CHECK. THE JACKS SHOULD BE SYNCHRONIZED BY THIS STEP.

IF NOT,

Again open the ball valve, and press UP button.

Stop pressing, when two runways are at same level.
Close the ball valve.

Press the UP button to check the synchronization.

3.4 Items to be checked after installation

S/N	Check items	YES	NO
1	Are two platforms adjusted with the same level?		
2	Are oil hose tightly connected?		
3	Are all electric connections correct?		
4	Are valves of the pump unit oil tight?		

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.

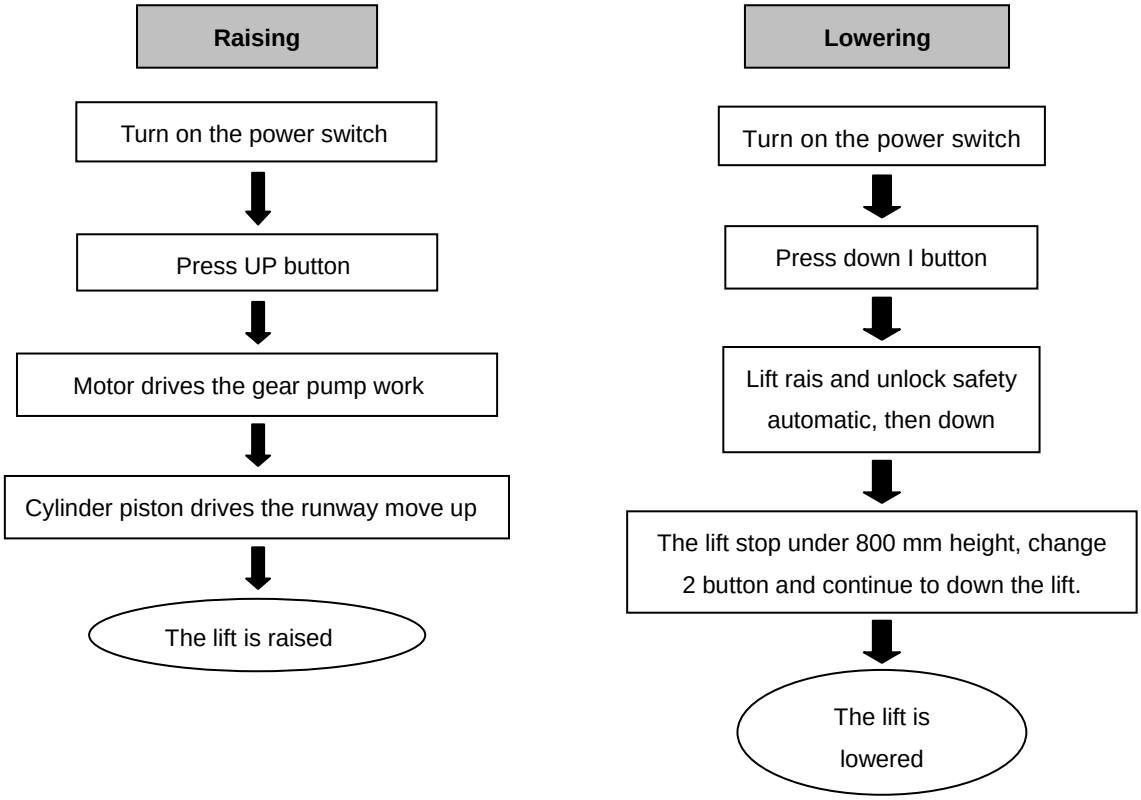
4.1.3 It shall not lift or lower an automobile if its center of gravity is not positioned midway of the runways. Otherwise, we as well as our dealers will not bear any responsibility for any consequence resulted thereby.

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

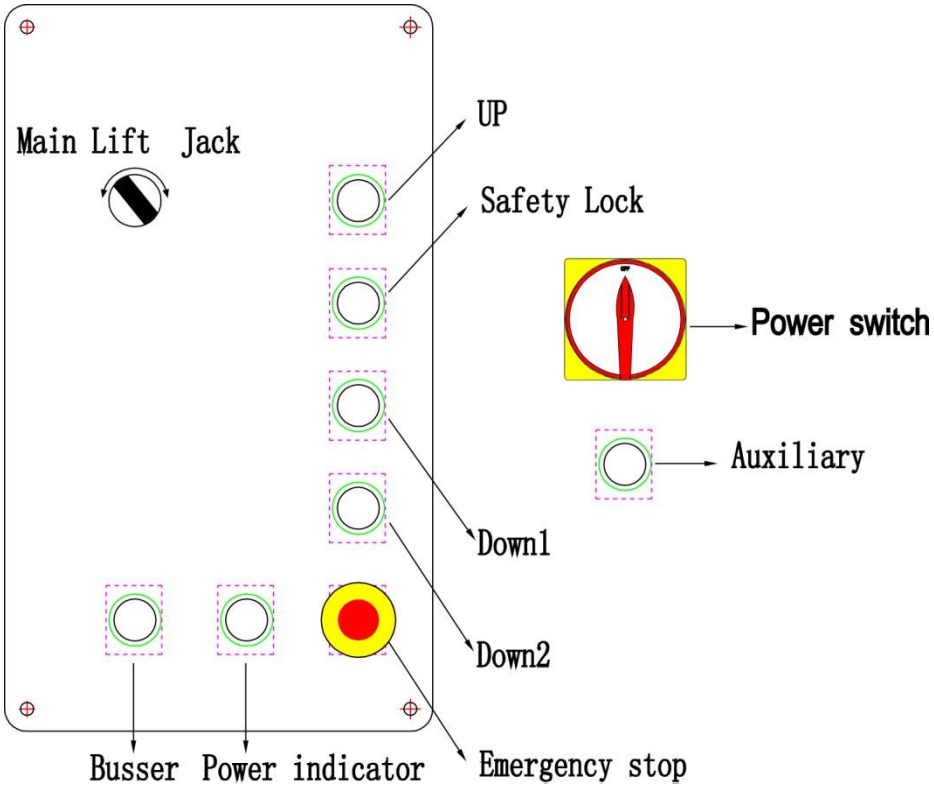
4.1.5 When runways being raised to the desired height, switch off the power at once to prevent any wrong operation done by unconcerned people.

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. Drive and park the vehicle midway between two platforms.
3. Press the **"UP"** button on the control box to lift the vehicle a bit higher from the ground and check again if the vehicle is in a safe position.
4. Having raised the vehicle to the required height, operators must press down the **"Safety Lock"** button to ensure the mechanical safety lock is engaged. Press the **"Emergency Stop"** and check again the stability before performing maintenance or repair work.

Lower the lift

1. Switch on.
2. Press the**"DOWN I"** button to lower the lift. It will stop lowering when clearance between the platforms and the ground reached to 500 mm.
3. Press **"DOWN II"** button to continue lowering the platforms. Alarming buzz will be heard unless you stop pressing **"DOWN II".**
4. Drive the vehicle away.

TROUBLE SHOOTING

ATTENTION: If the problem can 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 you could provide us more details or pictures of the trouble.

PROBLEM	CAUSE	SOLUTION
Motor does not run and will not raise	The wire connection is loose.	Check and make a good connection.
	The motor is burnt.	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.
Platforms 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.
	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.
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.

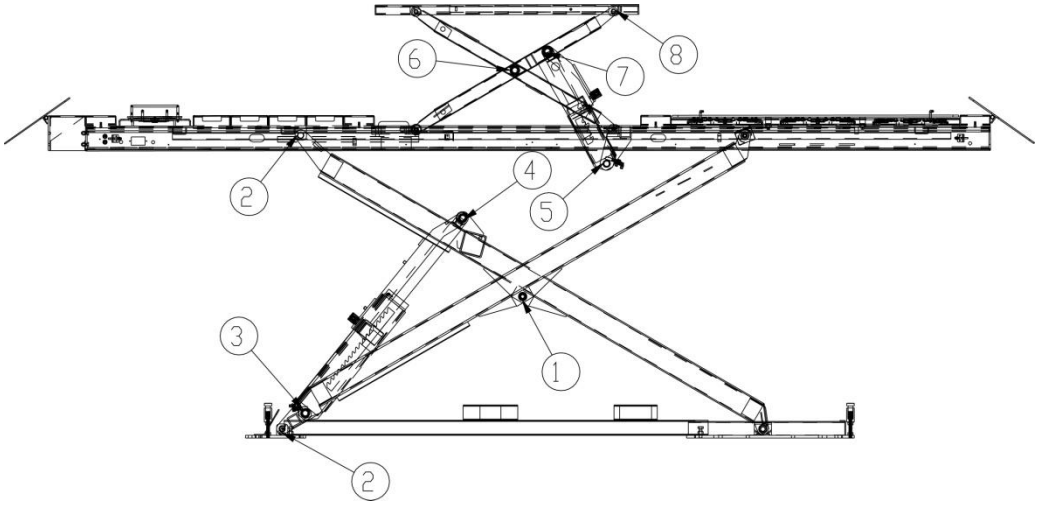
MAINTENANCE

It is advised to change the hydraulic oil three month after initial use and once per year thereafter for which could prolong the service life of the pump.

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 to be lubricated.

S/N	Name
1	Shaft
2	Rotor shaft
3	Rotor shaft
4	Rotor shaft
5	Rotor shaft
6	Rotor shaft
7	Pin shaft
8	Rotor shaft
9	Rotor shaft



6.1 Daily Check

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

· Check whether oil hose well connected. No leakage is allowed.
· Check the electric connections .Make sure all connections are in good condition.
· Check whether the expansion bolts well anchored.
· Check if safety teeth and safety block matched well or not.

6.2 Weekly Check

· 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 the expansion bolts well anchored.

6.3 Monthly Check

· Check whether the expansion bolts well anchored.
· Check the tightness of the hydraulic system and screw firm the joints if it leaks.
· Check the lubrication and abrasion circumstance of moving parts.

6.4 Yearly Check

· 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.

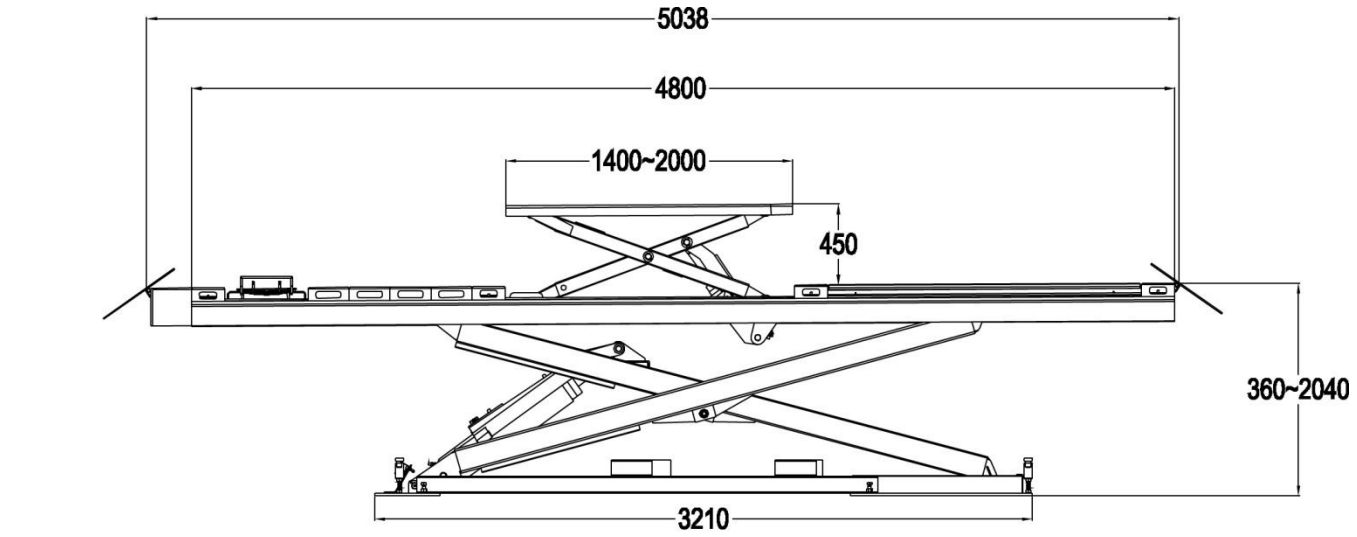
ANNEX

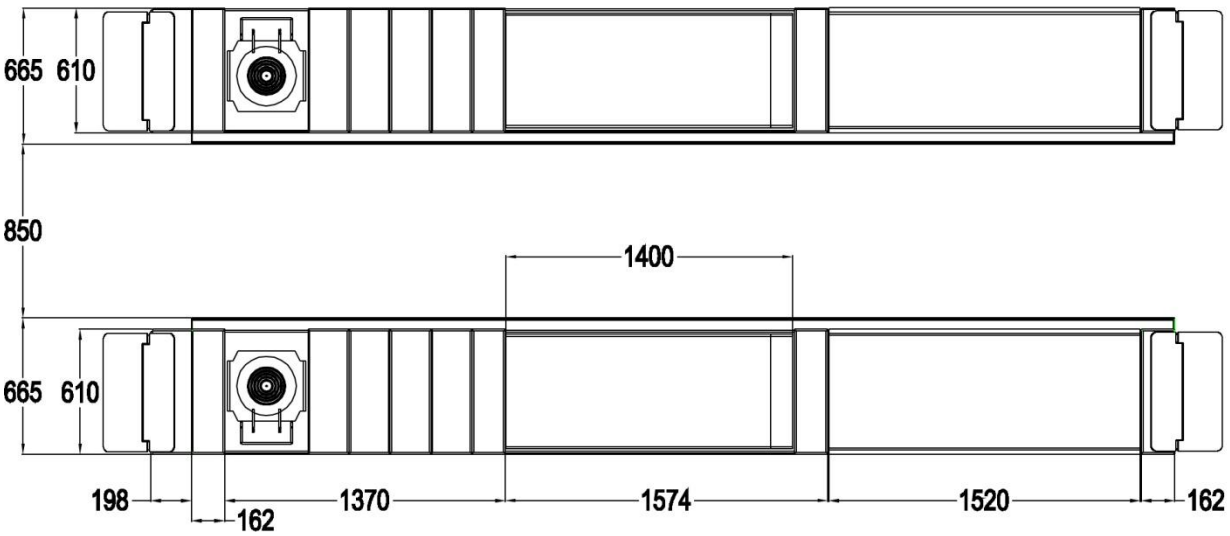
Annex 1, Packing List of the whole lift

S/N	Name	Desk.	Qty
1	8806T vehicle lift	Assembly	1
2	Expansion bolt M16*120	Standard	12
3	Control cabinet	Assembly	1

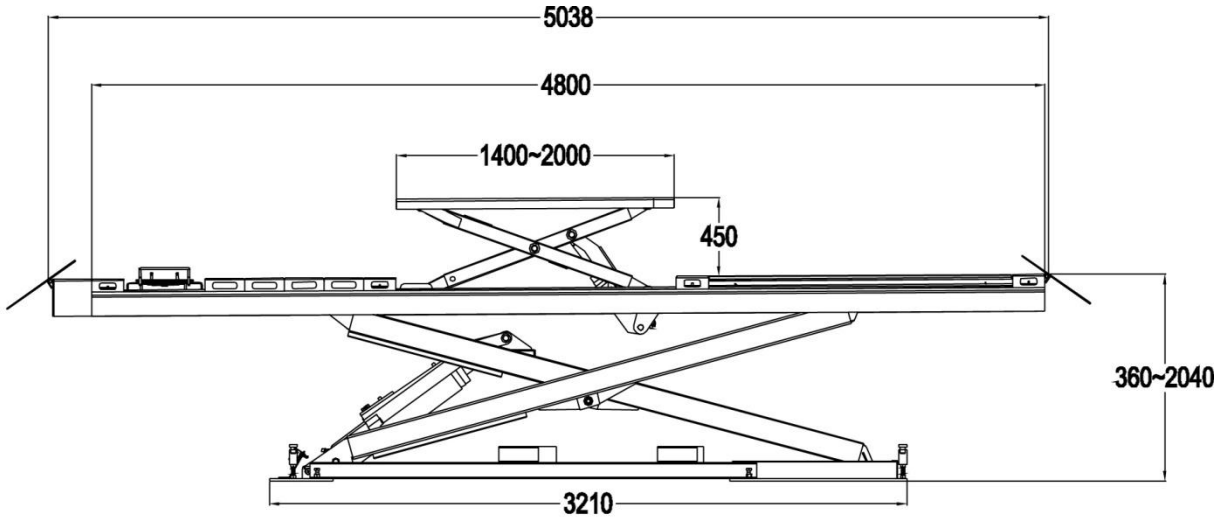
Annex 2, Overall diagram

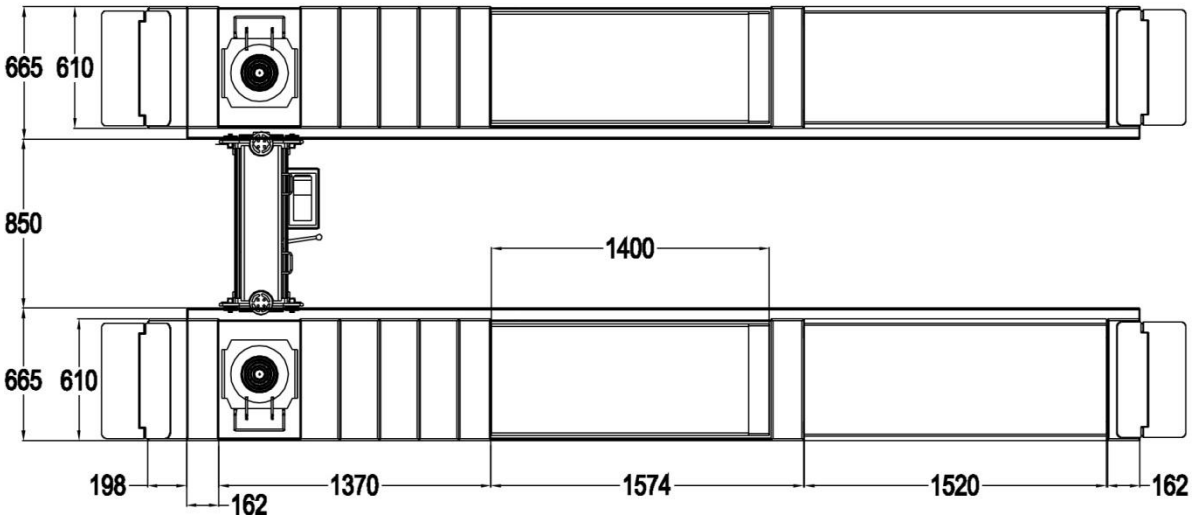
(1) Without jack



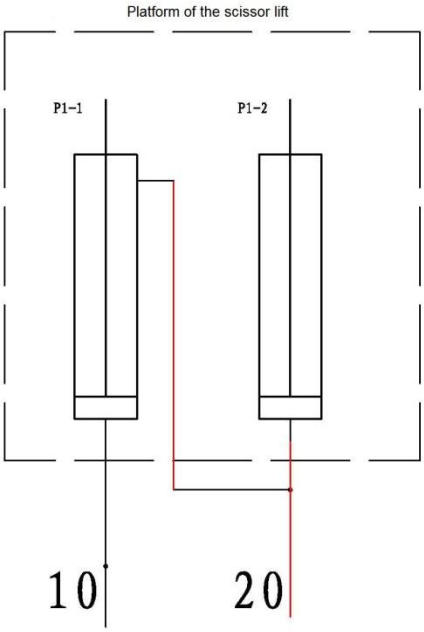


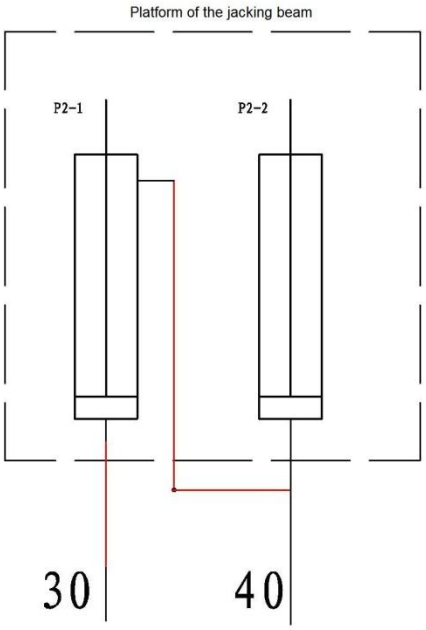
(2) With jack

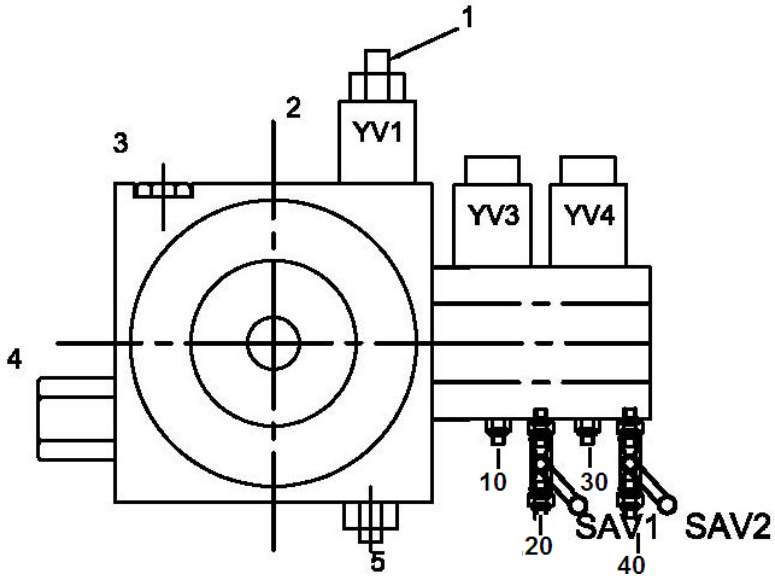

5038
4800
1400~2000
450
360~2040
3210


665
610
850
1400
665
610
198
162
1370
1574
1520
162

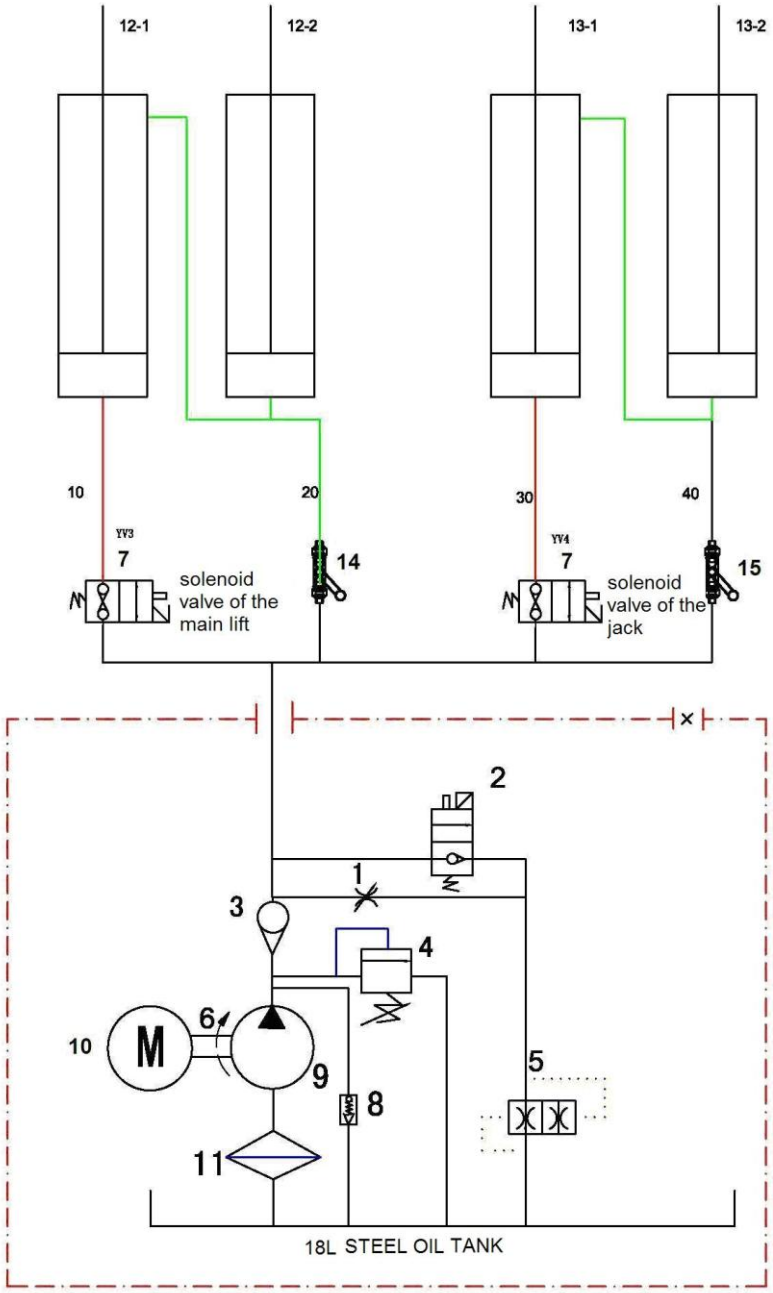
Annex 3, Diagram for oil hose connection







Annex 4, Hydraulic working system



1. Emergent unloading valve
2. Electrical unloading valve
3. Single-way valve
4. Overflow valve
5. Lowering throttle valve
6. Coupling
7. Solenoid valve
8. Cushion valve
9. Gear pump
10. Motor
11. Oil filter
12. Oil cylinder
13. Oil cylinder
14. Ball valve of body lift
15. Ball valve of jack

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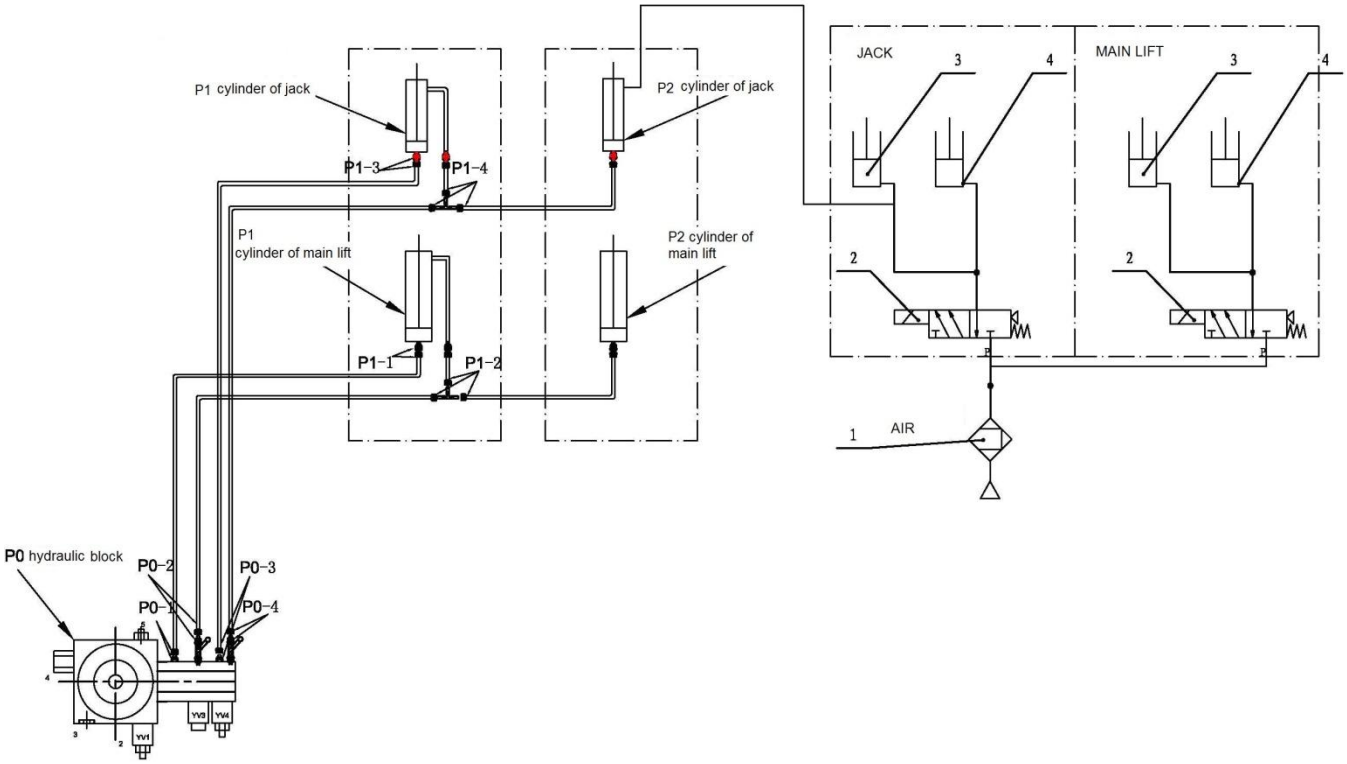
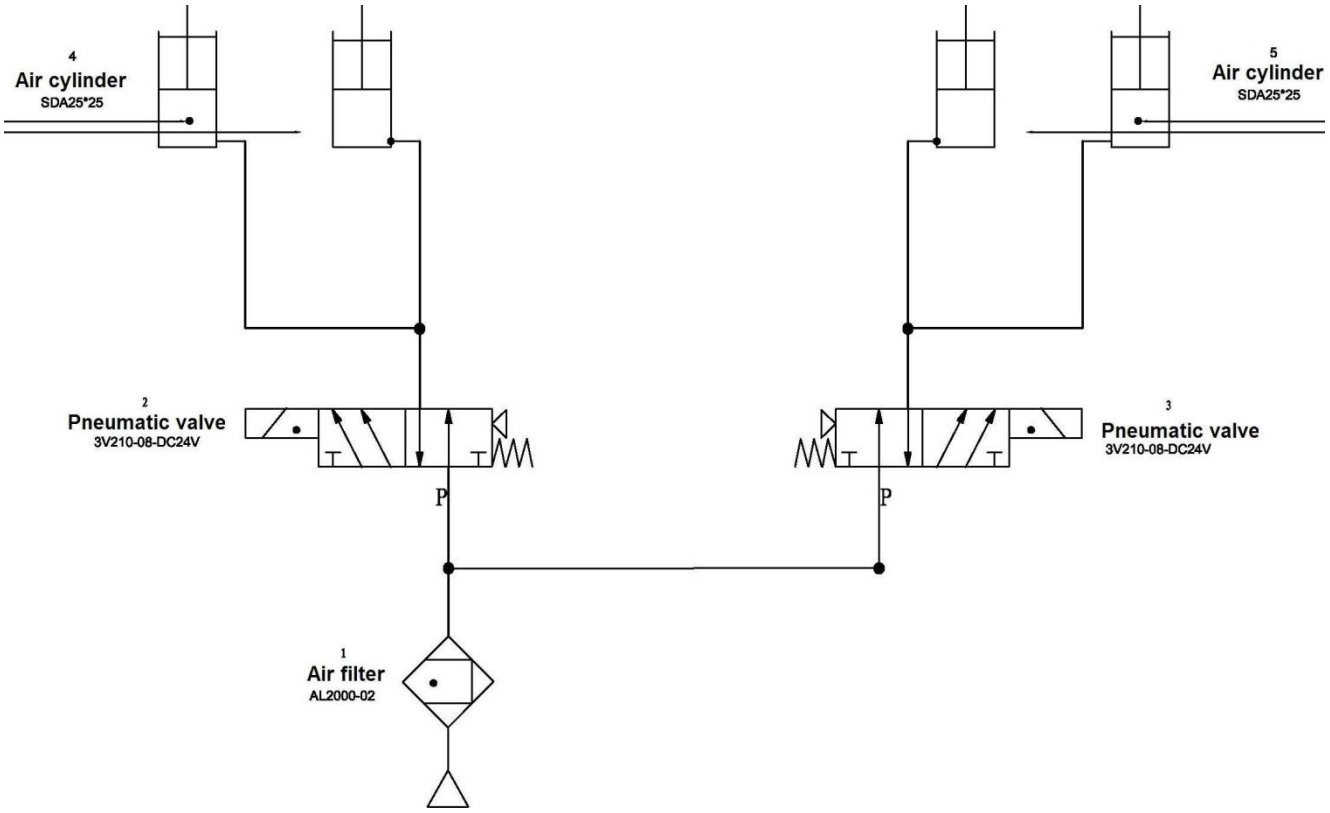
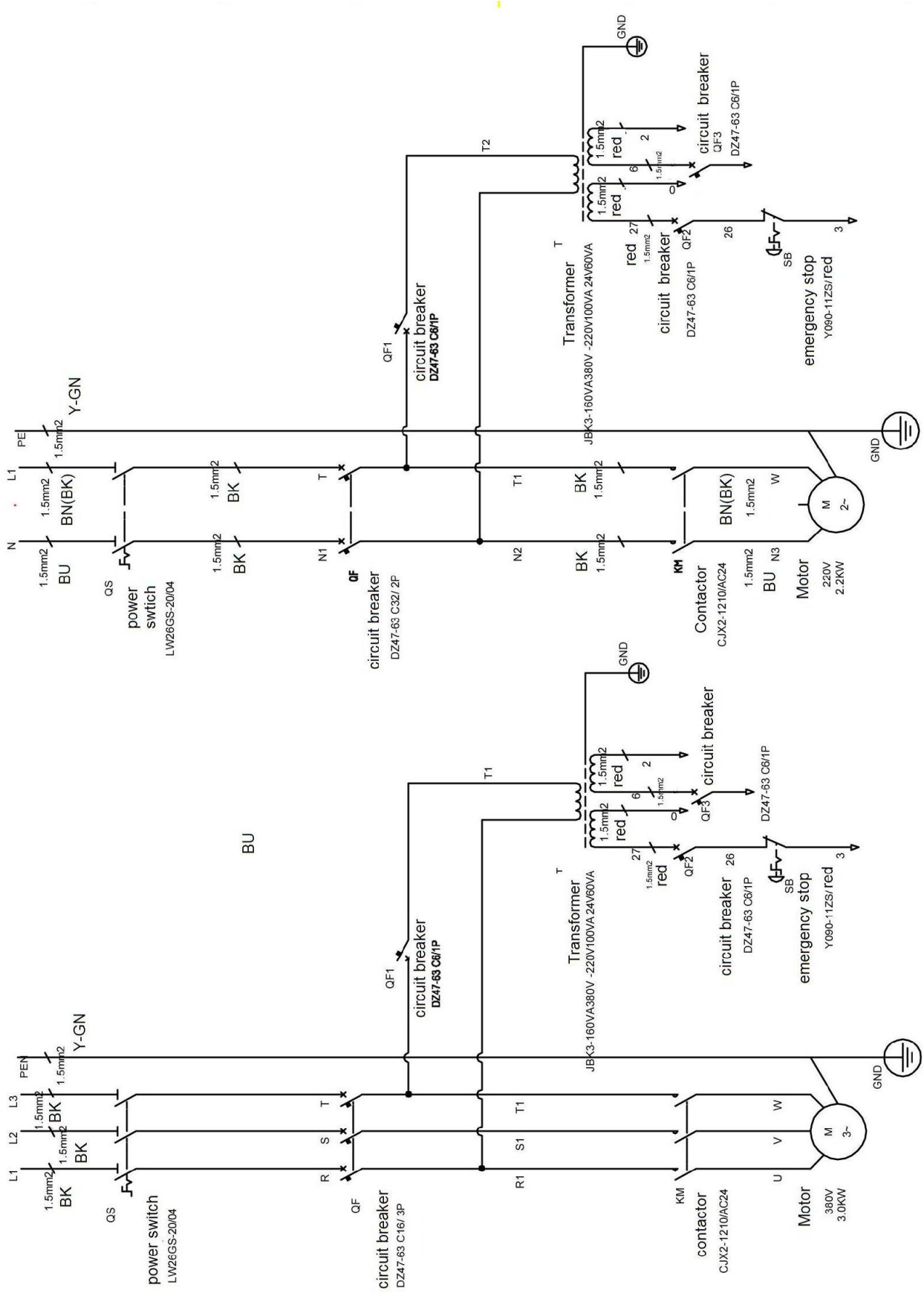
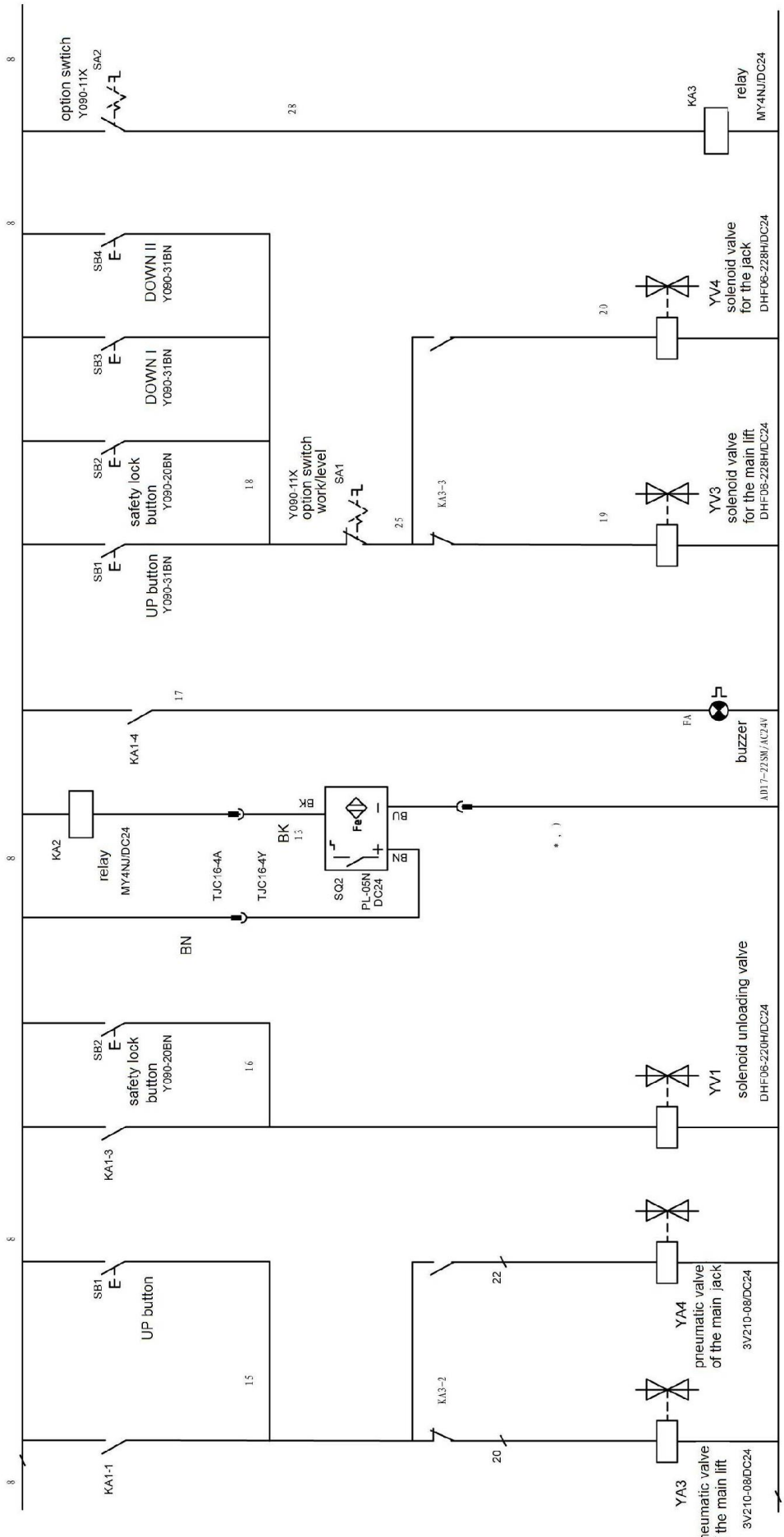
Annex 5, Diagram for air supply connection

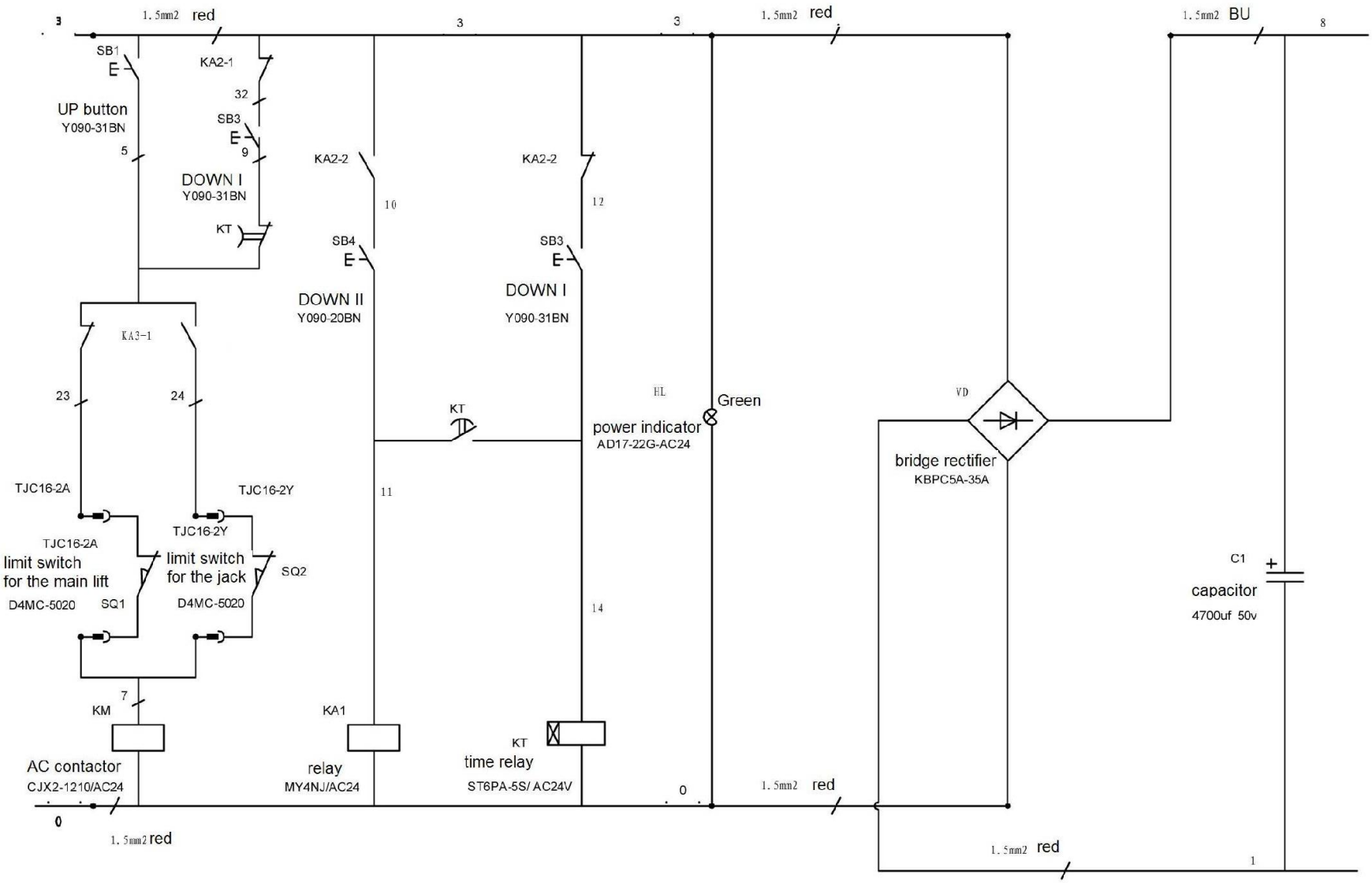


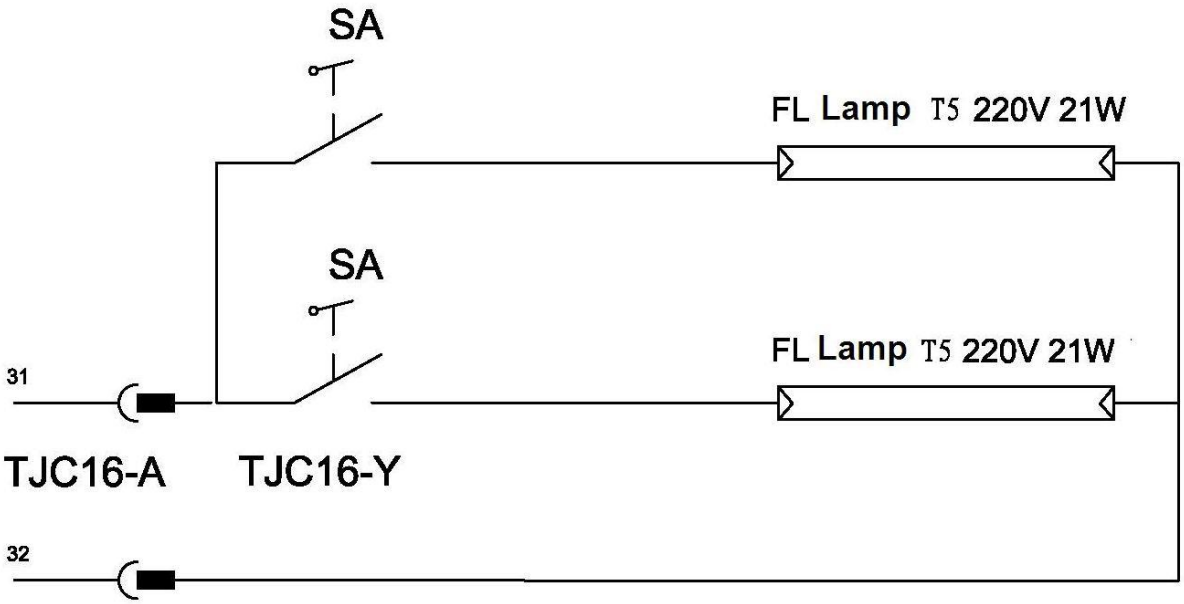


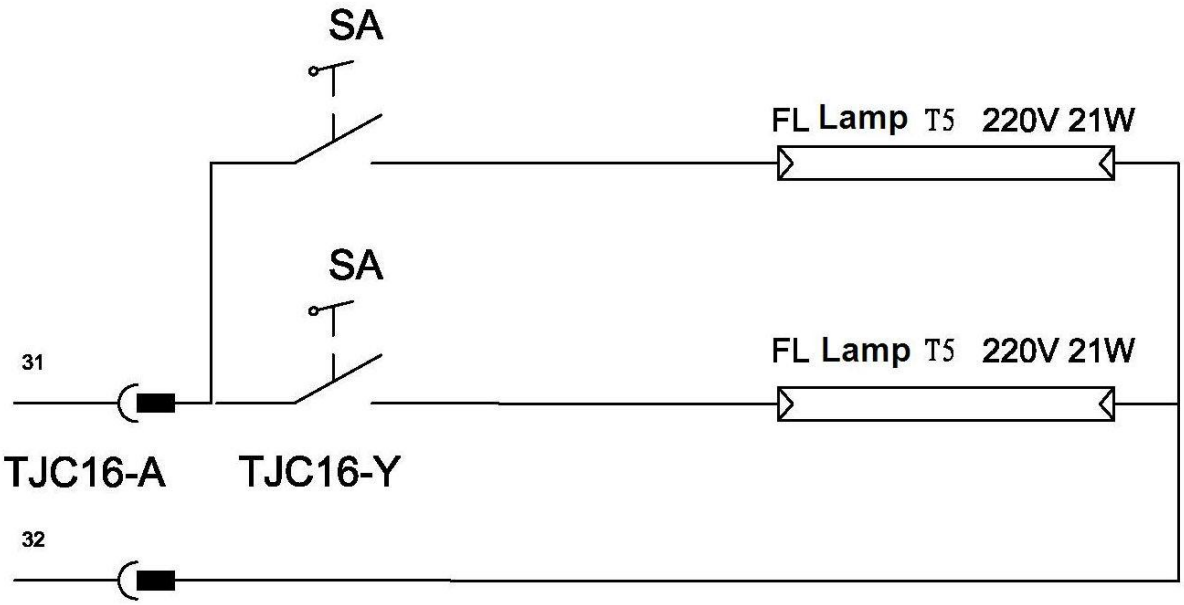
Annex 6, Wiring diagram



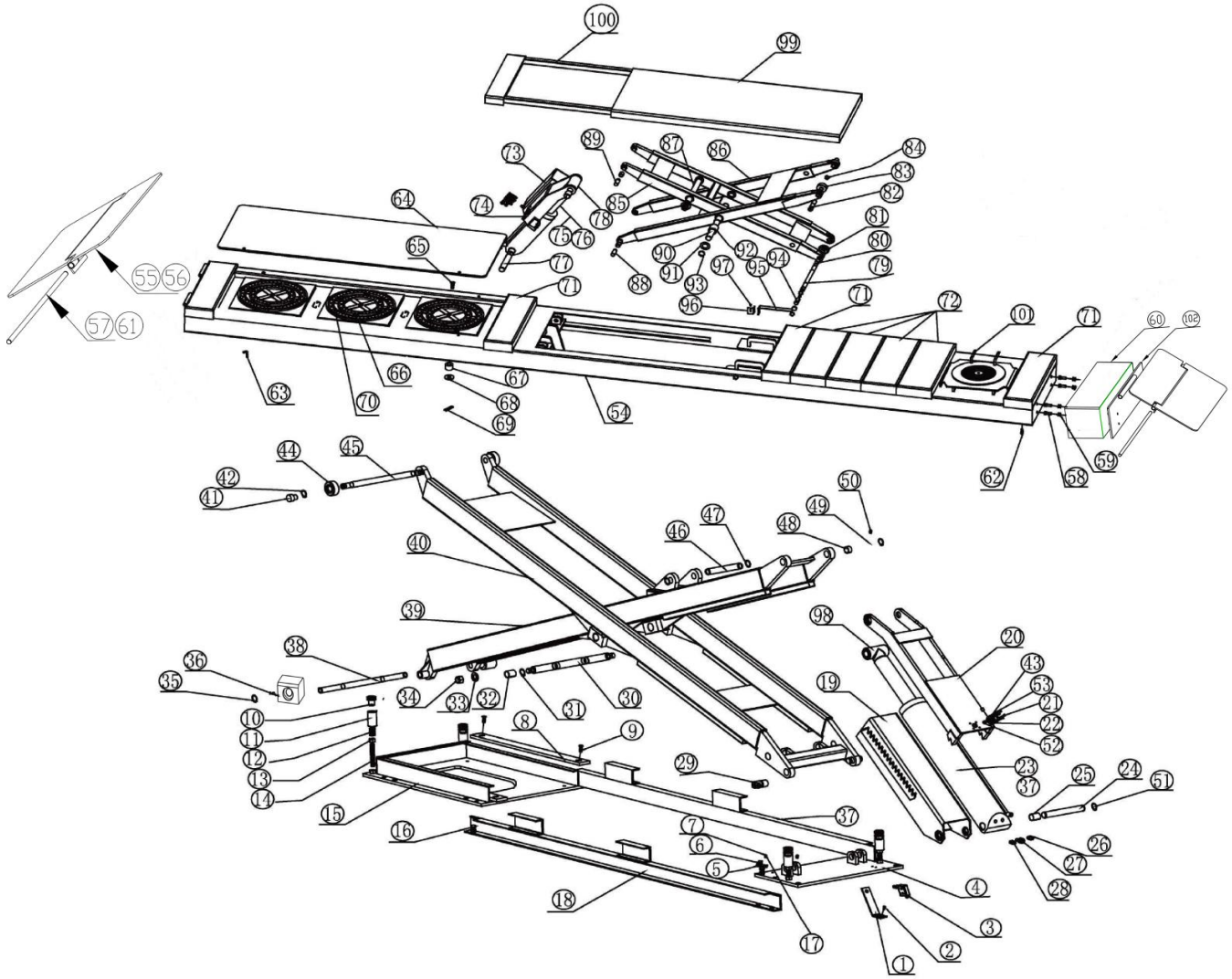

option swtich
Y090-11X
SA2
KA3
relay
MY4NJ/DC24
SB4
DOWN II
Y090-31BN
SB3
DOWN I
Y090-31BN
SB2
safety lock
button
Y090-20BN
SB1
UP button
Y090-31BN
Y090.11X
option switch
work/level
SA1
KA3-3
YV4
solenoid valve
for the jack
DHF06-228H/DC24
YV3
solenoid valve
for the main lift
DHF06-228H/DC24
KA1-4
buzzer
AD17-22SM/AC24V
KA2
relay
MY4NJ/DC24
TJC16-4A
TJC16-4Y
BK
SQ2
PL-05N
DC24
BN
SB2
safety lock
button
Y090-20BN
KA1-3
YV1
solenoid unloading valve
DHF06-220H/DC24
SB1
UP button
KA3-2
YA4
pneumatic valve
of the main jack
3V210-08/DC24
KA1-1
YA3
pneumatic valve
of the main lift
3V210-08/DC24


1.5mm2 red
3
3
1.5mm2 red
1.5mm2 BU
8
SB1
KA2-1
32
UP button
Y090-31BN
SB3
5
9
DOWN I
Y090-31BN
KT
KA2-2
10
SB4
DOWN II
Y090-20BN
KA2-2
12
SB3
DOWN I
Y090-31BN
KA3-1
23
24
KT
HL
Green
power indicator
AD17-22G-AC24
VD
bridge rectifier
KBPC5A-35A
TJC16-2A
TJC16-2Y
11
TJC16-2A
TJC16-2Y
limit switch
for the main lift
D4MC-5020
SQ1
limit switch
for the jack
D4MC-5020
SQ2
14
C1
capacitor
4700uf 50v
7
KM
KA1
KT
AC contactor
CJX2-1210/AC24
relay
MY4NJ/AC24
time relay
ST6PA-5S/ AC24V
0
0
1.5mm2 red
1.5mm2 red
1.5mm2 red
1.5mm2 red
1


SA
FL Lamp T5 220V 21W
SA
FL Lamp T5 220V 21W
31
TJC16-A
TJC16-Y
32


SA
FL Lamp T5 220V 21W
SA
FL Lamp T5 220V 21W
31
TJC16-A
TJC16-Y
32

Annex 7, Separated drawings for the lift

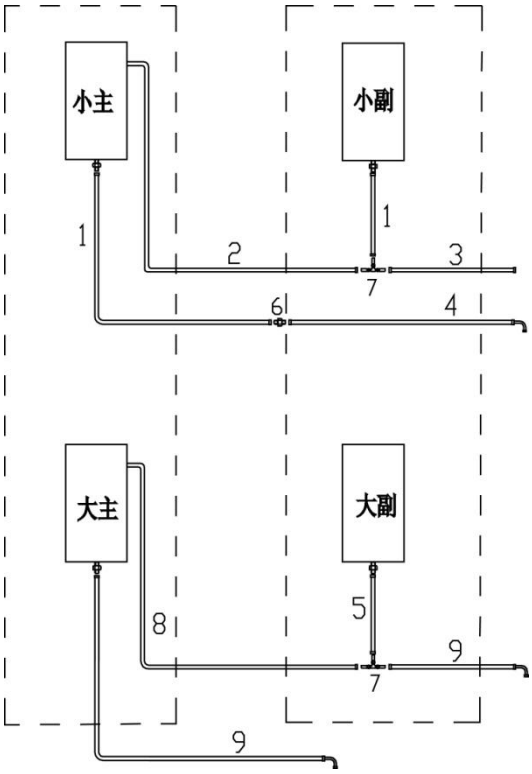


S/N	Material#	Name	Drawing#/Size	Qty	Property	Note
1		Limit switch bracket A	FL-8806J-A7-B7	1	Q235A	
2		Inside hex round head screw	M5*12	3	Standard	
3		Limit switch	D4MC-5020	1	Standard	
4		Base plate right welding parts	FL-8806J-A7-B3	2	welding	
5		Limit switch bracket B	FL-8806J-A7-B8	1	Q235A	
6		Proximity switch	PL-05N	1	Standard	
7		Flat washer C class	D5	1	Standard	
8		Guide rail	FL-8806J-A7-B5	4	Q235A	
9		Crosses head screw	M5*15	8	Standard	
10		Buffer head	FL-8806J-A7-B1-C3	8	Q235A	
11		buffer flange	FL-8806J-A7-B1-C1	8	45	
12		Spring	FL-8806J-A7-B1-C2	8	65Mn	
13		Nut	M16	8	Standard	
14		Bolt	M16*120	8	Standard	
15		Base plate left welding parts	FL-8806J-A7-B6	2	welding	
16		Hexagonal screw bolt	M16*50	8	Standard	
17		Spring washer	D5	8	Standard	

S/N	Material#	Name	Drawing#/Size	Qty	Property	Note
18		Base plate channel welding parts B	FL-8806J-A7-B4	2	welding	
19		Oil cylinder shell welding parts	FL-8806J-A6-B3	2	welding	
20		Safety welding parts	FL-8806J-A6-B5	2	welding	
21		Hexagon socket cap screws	M5*45	8	Standard	
22		Air cylinder	CQ2B32*20	2	Standard	
23		Big oil cylinder	FL-8806J-A6-B1	1	Components	
23		Small oil cylinder	FL-8806J-A6-B2	1	Components	
24		Main oil cylinder lower shaft	FL-8806J-A6-B6	2	45	
25		Lubricating bearings 3040	SF-1	4	Standard	
26		Pipe joint B	FL-8806J-A9-B8	2	45	
27		Hand pump joint		2	Standard	
28		Throttle valve		1	Standard	
29		Revolving shaft welding parts	FL-8806J-A5-B1	4	welding	
30		Scissors axis pin	FL-8806J-A5-B5	2	45	
31		Circlip for shaft	⌀35	4	Standard	
32		Lubricating bearings 3560	SF-1	4	Standard	
33		Flat washer C class	M24	4	Standard	
34		Prevailing torque type hexagon nut with style I	M24	4	Standard	
35		Circlip for shaft	D25	4	Standard	
36		8806 lower slip	FL-8806J-A5-B8	4	Nylon 1010	
37		Base plate channel welding parts A	FL-8806J-A7-B2	2	welding	
38		Lower slip roller	FL-8806J-A5-B9	2	45	
39		Scissors support A welding parts	FL-8806J-A5-B2	2	welding	
40		Scissors support B welding parts	FL-8806J-A5-B3	2	welding	
41		Nut				
42		Circlip for shaft D25	GB/T894.2-1986	4	Standard	
43		Silencer		4	Standard	
44		Upper slider	FL-8806J-A5-B4	4	Nylon 1010	
45		Upper slider roller	FL-8806J-A5-B7	2	45	
46		Oil cylinder upper shaft	FL-8806J-A5-B10	2	45	
47		Circlip for shaft D30	GB/T894.2-1986	18	Standard	
48		Lubricating bearings 3025	SF-1	4	Standard	
49		Revolving shaft welding parts	FL-8806J-A5-B1	4	welding	
50		Hex cone end set screw	M6*10	16	Standard	
51		Circlip for shaft	D30	2	Standard	
52		Adjustable head	FL-8806J-A3-B9	4	Nylon 1010	
53		L-angle oil hose joint		2	Standard	
54		Platform welding parts 4.8m (left)	FL-8806J-A4-B11	1	welding	4.8L
		Platform welding parts 4.8m (right)	FL-8806J-A4-B11	1	welding	
55		Upper ramp welding parts	FL-8806J-A4-B8	2	welding	
56		Lower ramp welding parts	FL-8806J-A4-B9	2	welding	
57		Roller A	FL-8806J-A4-B9-C3	2	45	
58		Hexagonal screw bolt M12*30	GB/T 5782-2000	8	Standard	

S/N	Material#	Name	Drawing#/Size	Qty	Property	Note
59		Hex nut M12	GB/T 6170-2000	8	Standard	
60		Case welding parts A	FL-8806J-A4-B1	2	welding	
61		Circlip for shaft	GB/T879.2-2000	4	Standard	
62		Inside hex round head screw M8*25	GB/T 70.1-2000	16	Standard	
63		Plug pin	FL-8806J-A4-B13	4	Q235A	
64		Sliding plate welding parts	FL-8806J-A4-B7	2	welding	4.6/4.8/5.1L
65		Cross recess pan head screw	GB/T 819.1-2000	14	Standard	
66		Ball		240	Nylon 1010	
67		Nylon sleeve	FL-8806J-A4-B7-C4	4	Nylon 1010	
68		Washer	¢40*¢17*4	4	Q235A	
69		Cylindrical pin	GB/T879.2-2000	4	Standard	
70		Ball socket		6	Nylon 1010	
71		Case welding parts C	FL-8806J-A4-B3	4	welding	
72		Case welding parts E	FL-8806J-A4-B5	8	welding	
73		Small oil cylinder shell welding parts	FL-8806J-A3-B3	1	welding	
74		Small safty welding parts	FL-8806J-A3-B6	2	welding	
75		Big oil cylinder	FL-8806J-A3-B1	1	Components	
76		Small oil cylider	FL-8806J-A3-B2	1	Components	
77		Small oil cylider upper roller	FL-8806J-A3-B7	2	45	
78		Small oil cylider tee joint	FL-8806J-A3-B8	2	ZG270~500	
79		Roller shaft B	FL-8806J-A2-B7	2	45	
80		Lubricating bearings 2022	SF-1	12	Standard	
81		8806 lower roller	FL-8806J-A2-B6	4	45	
82		Roller shaft A	FL-8806J-A2-B5	4	45	
83		8806 upper roller	FL-8806J-A2-B4	4	Nylon 1010	
84		Circlip for shaft D20	GB/T894.1-1986	12	Standard	
85		Small scissor rotating arm A	FL-8806J-A2-B1	2	welding	
86		Small scissor rotating arm B	FL-8806J-A2-B2	2	welding	
87		Small oil cylider upper shaft	FL-8806J-A2-B3	2	45	
88		Small scissor roller A	FL-8806J-A2-B8	4	45	
89		Roller shaft A	FL-8806J-A2-B9	4	45	
90		Small scissor plug pin	FL-8806J-A2-B10	2	45	
91		Washer	FL-8802-A8	8	Q235A	
92		Lubricating bearings 3050	SF-1	8	Standard	
93		Circlip for shaft D30	GB/T894.1-1986	12	Standard	
94		Small scissor limit connecting shaft	FL-8806J-A10	1	45	
95		Small scissor limit plate welding parts	FL-8806J-A9	1	welding	
96		Small scissor limit install panel	FL-8806J-A11	1	Q235A	
97		Cross recess pan head screw	GB/T 70.2-2000	2	Standard	
98		Big oil cylinder tee joint	FL-8806J-A6-B8	2	ZG270~500	
99		Small platform welding parts	FL-8806J-A1-B2	2	welding	
100		Assist platform welding parts	FL-8806J-A1-B1	2	welding	
101		Turn plate 400*400	FL-8806J-A15	2	Components	
		Ramp fixed plate welding parts	FL-8806J-A4-B2	2	welding	

Oil hoses



S/N	Material#	Name	Drawing#	Qty	Note
1		φ8 Rubber oil hose (straight connector at both sides)	FL-8806J-A8	2	L=6000mm
2		φ8 Rubber oil hose (straight connector at both sides)	FL-8806J-A8	1	L=700mm
3		φ8 Rubber oil hose(straight connector at one sides, elbow connector at the other)	FL-8806J-A8	1	L=5000mm
4		φ8 Rubber oil hose(straight connector at one sides, elbow connector at the other)	FL-8806J-A8	1	L=4500mm
5		φ6 Rubber oil hose (straight connector at both sides)	FL-8806J-A8	1	L=350mm
6		Straight connector		1	
7		Three-way connector		2	
8		φ6 Rubber oil hose (straight connector at both sides)	FL-8806J-A8	1	L=2000mm
9		φ6 Rubber oil hose(straight connector at one sides, elbow connector at the other)	FL-8806J-A8	2	L=5000mm

Annex8, Spare parts list

Spare parts list - electrical parts

S/N	Material #	Item	Spec.	Qty	Unit	Pic.
1		Power switch	LW26GS-20/04	Pcs	1	
2		Button	Y090-31BN	Pcs	3	
3		Power indicator	AD17-22G-AC24	Pcs	1	
4		Transformer	JBK-160VA220V-220V100VA 24V60VA	Pcs	1	Same outlook as item7
5		Transformer	JBK-160VA230V-220V100VA 24V60VA	Pcs	1	Same outlook as item7
6		Transformer	JBK-160VA240V-220V100VA 24V60VA	Pcs	1	Same outlook as item7
7		Transformer	JBK-160VA380V-220V100VA 24V60VA	Pcs	1	
8		Transformer	JBK-160VA400V-220V100VA 24V60VA	Pcs	1	Same outlook as item7
9		Transformer	JBK-160VA415V-220V100VA 24V60VA	Pcs	1	Same outlook as item7
10		AC contactor	CJX2-1210/AC24	Pcs	1	
11		Circuit breaker	DZ47-63 C16 /3P	Pcs	1	
12		Circuit breaker	DZ47-63 C32 /2P	Pcs	1	
13		Circuit breaker	DZ47-63 C6 /1P	Pcs	3	
14		Pneumatic valve	3V210-08/DC24	Pcs	2	

S/N	Material #	Item	Spec.	Qty	Unit	Pic.
15		Limit switch	D4MC5020	Pcs	2	
16		Button	Y90-20BN	Pcs	1	
17		Option switch	Y90-11x	Pcs	2	
18		Bridge rectifier	KBPC5A-35A	Pcs	1	
19		Capacitor	4700UF/50V	Pcs	1	
20		Control box	Big	Pcs	1	
21		Relay	MY4NJ/DC24	Pcs	2	
22		Relay	MY4NJ/AC24	Pcs	1	
23		Proximity switch	PL-05N	Pcs	1	
24		Relay holder	PYF14AE	Pcs	1	
25		Time relay	ST6P-2AC24V delay 5S	Pcs	1	
26		Time relay holder	PYF-08A-E	Pcs	1	

Space for notes:

Space for notes:

EG-declaration of conformity

CE

The company

Twin Busch GmbH | Amperestr. 1 | D-64625 Bensheim

declares hereby, that the **scissor vehicle lift**

TW SA-42U V2 | 4200 kg

serial no. _____

in the configuration placed on the market by us, meets the relevant safety and health requirements, as required by the following EC directive(s) in it's/their current version(s).

EG-directive(s)

2006/42/EC machines

Applied harmonized standards and regulations

EN 1493:2010, EN 60204-1/A1:2006/A1:2009;
2014/35/EU

CE Certificate

M6A 17 04 87411 021
N8MA 17 04 87411 022

date of issue: 02.05.2017
place of issue: München
technical file no.: 646641704401

Certification body

TÜV Süd Product Service GmbH,
Ridlerstraße 65
D-80339 München
Notified Body Appointment No. 0123

Any alteration to the equipment, improper use or installation void this declaration.

Authorized person to compile technical documentation is: Michael Glade (adress as below)

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Tel. 06251 / 70585-0 · Fax: 70585-29

Authorized signatory: Michael Glade
Bensheim, 08.05.17 Qualitätsmanagement

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