SCISSOR LIFT
TWSA-40-400 / TWSA-40-400-G
(Lifting capacity: 4000 kg)

TWSA-40 & TWSA-40-G

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Always read these operating instructions carefully before operating the lift. Follow the instructions carefully.

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Further attachment:

- **EU Declaration of Conformity**

Important Information:

PRODUCT PRESENTATION

You can find the product presentation video for this lift on YouTube:
www.youtube.com/watch?v=2hKOHO5qePk
or scan the QR code.

TIPS & TRICKS

In the "Tips & Tricks" section, we show you simple solutions in videos to work even more efficiently with your TWIN BUSCH® products. Our technical specialist explains the exact steps to take.

https://www.twinbusch.co.uk/Tips-Tricks:_:74.html

24/7 Service Center

Our 24/7 Self-Service Centre is a mobile website for self-diagnosis of problems with your TWIN BUSCH® lift, tyre changer or balancer. Here we offer you an extensive collection of videos covering a wide range of topics relevant to your TWIN BUSCH® product, from fine adjustment to maintenance and component replacement.

The 24/7 Self-Service Centre is a versatile tool that helps you learn how to maintain and repair your TWIN BUSCH® lift, tyre changer or balancer yourself.

To open the page on your mobile device, please visit twinbusch.com/qr or scan the QR code opposite.

For TWIN BUSCH® lifts delivered from mid-2020, you will also find the QR code on a sticker on the control box.

1. General information

The TWSA-40 / TWSA-40-G has an ultra-flat design (only 200 mm drive-on height) and is therefore also ideal for sports cars.
The integrated wheel-free jack enables the complete vehicle (car) with all four wheels to be lifted free. For wheel alignment, locking system for lowering into the safety catches.
Swing plates at the rear and recesses with 6 insertion plates for swivel plates enable a very flexible range of applications from small to large wheelbases.

Thanks to the total of 8 powerful hydraulic cylinders in conjunction with the tilt lever system, the system guarantees fast and problem-free lifting, even under heavy loads. The TW SA-40 also scores points with automatic bleeding - just a few lifting and lowering cycles are enough to ensure synchronised movement of both platforms.

Special features of the product:

- 1A processing quality with CE certificate for UVV approval
- Production according to ISO 9001
- CE stop and signal tone when lowering (foot protection)
- Hydraulic synchronised control (cylinder sequence principle)
- Automatic safety locking and unlocking (compressed air required)
- High-quality and solid construction
- Wheel-free jack with extendable vehicle mounts for a longer mounting surface
- Emergency release function
- Carriageway with access ramps and roll-off protection
- Hose package 3000 mm
- Compressed air of 4-8 bar is required!

2. Identification of the instructions for use

Instruction manual TWSA-40 & TWSA-40-G

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Status: -03, 01.12.2025

File: TWSA-40_TWSA-40-G_Scissor_lift_over_floor_Instruction_Manual_uk_03_20251201.pdf

3. Technical data

Lifting capacity CE	4,000 kg
Lifting height max.	1,900 mm + 400 mm
Platform L. / W.	5,000 mm / 660 mm
Lifting and lowering time	approx. 65/50 sec.
Power supply	400 V / 3 phases
Motor power	3.5 kW
Fusing	16 A (slow)
Weight (approx.)	3,090 kg

4. Modification of the product

Improper use, modifications, conversions and attachments of the lift and all its components that have not been agreed with the manufacturer are not permitted. The manufacturer accepts no liability for improper installation, operation or overloading. Improper use also invalidates the CE certification and the validity of the certificate.
If you wish to make any changes, please contact your dealer or the expert staff at TWIN BUSCH® GmbH beforehand.

5. Safety-related information

Read the operating instructions carefully before operating the lift. Keep the instructions in a safe place for future reference. Follow the instructions carefully to achieve the best performance from the machine and to avoid damage due to personal negligence.

Unpack all parts and use the packing list to check that all components are present.

Check all connections and components thoroughly for damage. The lift may only be put into operation if it is in a safe operating condition.

5.1. Safety instructions

- Do not install the lift on an asphalt surface.
- Read and understand the safety instructions before operating the lift.
- Do not leave the control unit under any circumstances when the lift is in motion.
- Keep hands and feet away from moving parts. When lowering, pay particular attention to your feet.
- The lifting platform may only be operated by trained personnel.
- Bystanders are not permitted in the vicinity of the lifting platform
- Wear suitable clothing.
- The area around the lifting platform should always be kept free of obstructions.
- The lift is designed for lifting the entire vehicle, which does not exceed the maximum authorised weight.
- Always ensure that all safety precautions have been taken before working near or under the vehicle.
- Never remove safety-relevant components from the lift. Do not use the lift if safety-relevant components are missing or damaged.

- Do not under any circumstances move the vehicle or remove heavy objects from the vehicle that could cause significant weight differences while the vehicle is on the lift.
- Always check the manoeuvrability of the lift to guarantee its performance.
  Ensure regular maintenance. If an irregularity occurs, stop working
  with the lift immediately and contact your dealer.
- Lower the lift completely when it is not in use. Do not forget to disconnect the power supply.
- If you do not use the lift for a longer period of time:
  a.) Disconnect the lift from the power source
  b.) Empty the oil tank
  c.) Lubricate the moving parts with hydraulic oil

Caution: To protect the environment, dispose of the oil that is no longer used in the prescribed manner.

5.2. Possible security risks

5.2.1. Mains voltage

Damaged insulation, crushed cables and other faults can lead to accessible components being energised.
All cables and lines must be checked for damage before commissioning!

Safety measures:

- Only use the mains cable supplied or an approved mains cable.
- Replace cables/wires with damaged insulation.
- Do not open the control unit.

5.2.2. Risk of injury/ crushing hazard

If the lift is used with vehicle weights in excess of the permissible load capacity, if the vehicle is picked up incorrectly with the lift or if heavy objects are removed from the vehicle, there is a risk of the vehicle falling off the lift or tipping over.

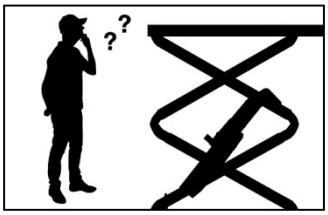
Safety measures:

- The lift may only be used for its intended purpose.
- Read the operating instructions carefully in order to understand all the necessary information and to be able to observe safety measures.
- Observe the warnings for operation.

5.3. Warning and symbols

All warning labels are clearly visible on the lift to ensure that the user uses the equipment in a safe and appropriate manner.
The warning signs must be kept clean and replaced if they are damaged or missing. Please read the signs carefully and memorise their meaning for future operations.

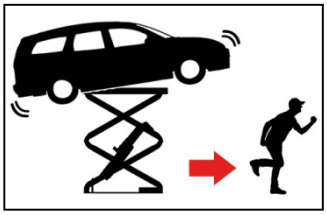
Read Instructions and safety instructions carefully before use!



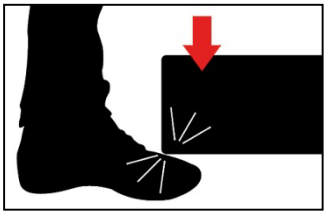
Operation of the lifting platform only by qualified personnel!

Repairs and maintenance only by qualified personnel, never put safety devices out of operation!

It is forbidden for persons to stand under the lifting platform (when lifting or lowering)!



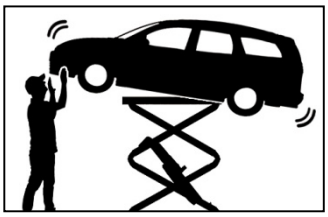
Escape routes always keep clear!



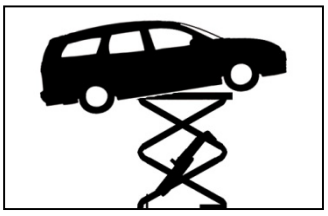
Pay attention to the lifting platforms and don't lower on to your feet! Crushing hazard!

Risk of crushing when lifting or lowering!

Never attempt to load only one side of the lift!



Avoid shaking the vehicle!



Do not exceed the specified load capacity! Distribute the vehicle weight over both platforms!

No additional supports or interfering objects when lowering!

CAUTION!
Electrical voltage!

5.4. Monitoring and testing of the safety equipment

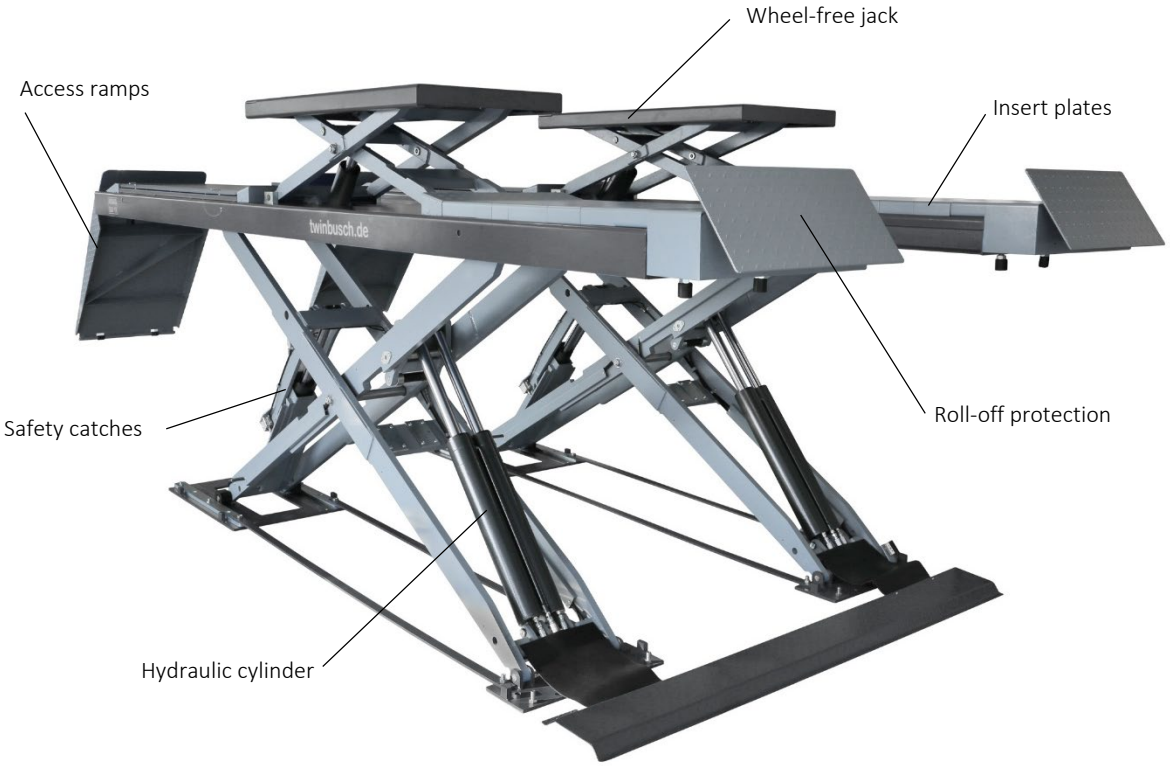
- Throttle valve	Throttles lowering speed in the event of a hydraulic leak.
- Mechanical safety catches	Protects the platform against lowering in the event of a hydraulic leak.
- 24 V control voltage	Protects the operator from dangerous high voltage.
- Wheel-free jack limit switch (max. height)	Stops lifting movement at maximum lifting height.
- Anti-tip protection of the wheel-free jack	Protects against tilting of the platform with uneven loads.
- Tilt protection main platforms	Protects against tilting of the platform with uneven loads.
- Limit switch main platforms (max. height)	Stops lifting movement at maximum lifting height.

6. Conformity of the product

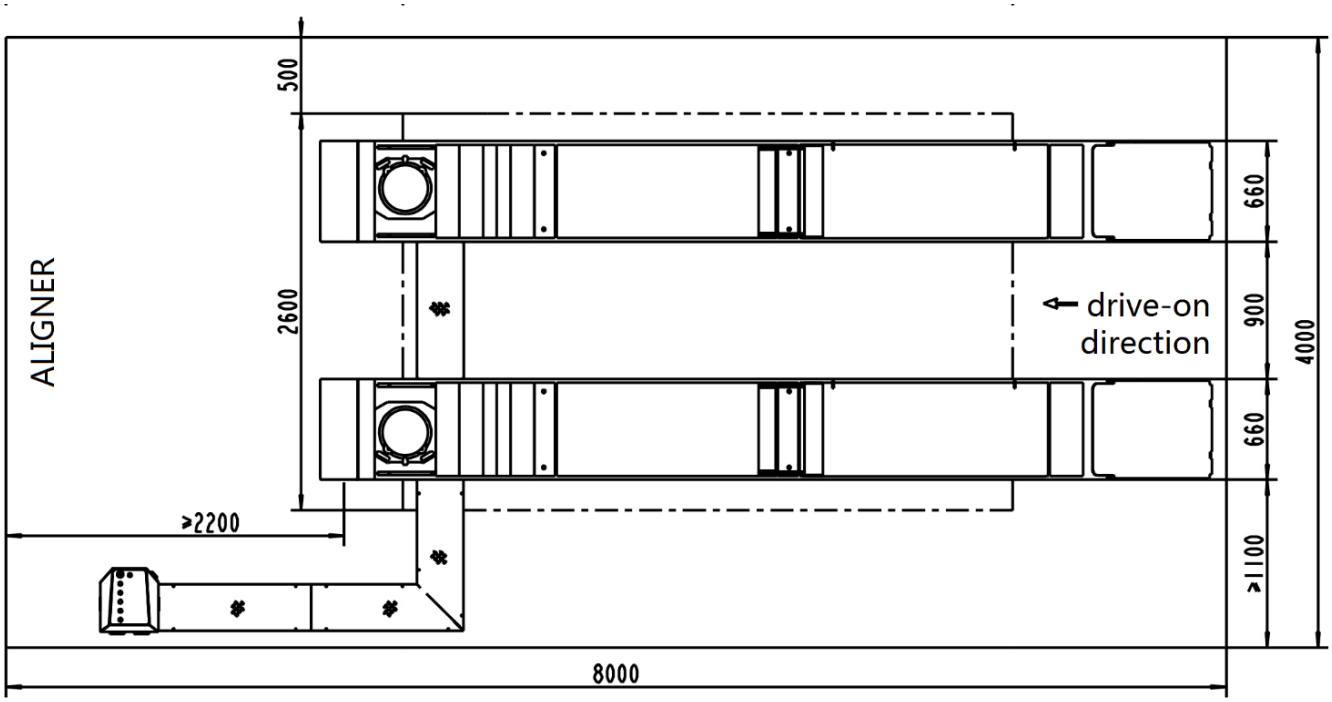
The Scissor Lift TWSA-40 / TWSA-40-G is CE-certified and is compliant with the Machinery Directive 2006/42/EC fulfilling the standards 1493:2010, EN 60204-1:2008 (look at: EU Declaration of Conformity, at the end of the user manual).

7. Technical specification

7.1. Machine description



7.2. Overview of the work area



8. Assembly instructions

8.1. Before installation

Tools and equipment required:

- Suitable lifting gear for the unwieldy and heavy components
- Hammer, lifting belt
- Cross-head and slot screwdriver
- Set of Allen keys
- Torque spanner
- Spanner attachments and open-ended spanner
- Hydraulic oil HLP 32

8.2. Completeness of all components

Unpack all components of the lifting platform and check the completeness of all components with the help of the packing list (see appendix: Packing list).

8.3. Ground conditions

The lift must be installed on a solid foundation with a compressive strength of more than 3 kg/mm², a flatness of less than 5 mm and a minimum thickness of 200 mm. Detailed information can also be found in the corresponding foundation plan on our homepage at www.twinbusch.co.uk.

Note: If a new concrete floor is to be poured, it must cure for at least 28 days before a lifting platform can be installed.

8.3 Assembly instructions

1) Place the lifting platform at the desired installation location.
   Lift the platform with a forklift and 2 lifting straps until the mechanical lock engages. Remove the bolts securing the platform and its wooden frame and then lift the platform to the intended installation location.

   Attention 1:
   Avoid scratches and cuts on the powder-coated surface and the hoses.

   Attention 2:
   Before lifting, ensure that the hoses and cables are well protected against damage.

   Attention 3:
   It is necessary to hold the platform during the lifting process. Unauthorised persons are not permitted in the installation area.

2) Connect the oil hoses.
   Connect the oil hose connections to the drive unit according to the diagram for the oil hose connection (see Appendix 3).

Caution: Connect according to the markings on the hoses and do not contaminate the hydraulic components during connection. Ensure that all screw connections are firmly tightened. If the hose connections are not properly tightened, there will be severe leaks.

3) Connect the pneumatics

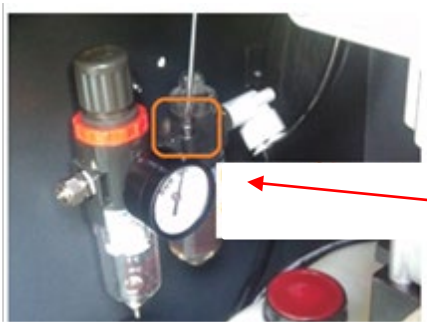
Connect the pneumatic release system according to the air hose connection diagram in Appendix 4.

Caution: Do not contaminate the pneumatic components during connection.

Press the knob shown in the following illustration upwards and turn the knob until the pointer of the pressure gauge points to the NUMBER "6". Then press the knob downwards.

Turn to set the working pressure.

It is recommended to fill the oil tank with ISO VG32 mechanical oil. Set the oil quantity using the knob on the top of the oil tank.



Remove screw to fill in oil.

Arrow marker

Setting the oil drip rate.

4) Connect the electrical system. This work must be carried out by an electrical engineer!

Read the motor rating plate and understand the wiring diagram before connecting the power supply unit.

Open the control box and connect the electrical cables to the terminals reserved inside.

Pay attention to the numbered tubes that are attached to each wire. Wires and terminals with the same number labelling are connected to each other.

5) Fill with hydraulic oil.

Filling the hydraulic system

The hydraulic oil tank has a capacity of approx. 22 litres. To ensure proper operation of the post lift, you should fill the oil tank to 80 % capacity with hydraulic oil.

Hydraulic oil type: HLP 32.

Raise and lower the main platform and the wheel lift in several cycles. After several cycles, add more oil until the post lift can reach its maximum lifting height.

Illustration: Filling HLP 32

6) **Nivellieren der Plattformen**

Switch SA3 to 'OFF' before levelling.

Check the connection of the hydraulic and electrical system before levelling.

6.1 Levelling the main lift

a) Turn the selector switch SA2 to the main lift.

b) Turn SA1 to the working mode and press the UP button to raise both wheel support platforms to the maximum height.

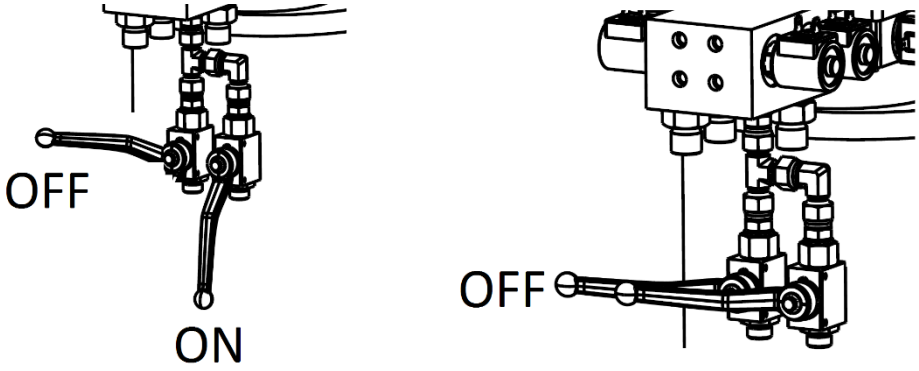
c) Continue to hold the UP button for another minute and then lower the platform completely to the ground.

d) Press the UP button to raise the platforms to their maximum height again and hold the UP button for another 20 seconds.

e) Press the UP and DOWN buttons to check synchronisation. Normally, the two platforms are synchronised at this step. Note: If the height difference is less than 20 mm, adjust the platform manually.

g) Switch SA1 to levelling mode.

f) Switch on one of the two levelling valves and press the UP or DOWN button to adjust the height of a single platform until it is level with the other platform. Switch off the valve before normal raising or lowering.



6.2 Levelling the wheel-free jack

a) Set SA2 on the control panel to "Wheel jack" (jack) and SA1 to levelling mode (levelling).

b) Press the UP button until both platforms of the "wheel-free jack" go all the way up to de-aerate the cylinders.

c) Press DOWN I until the lowest position is reached. Press the UP button to check the "wheel free lift" should be synchronised by this step. Repeat the above levelling steps until synchronisation is achieved.

7) Anchor tracks 1 and 2 to the ground.

a) Drill holes in the foundation for each anchor bolt using a hammer drill. Drill perpendicular to the ground level.

b) Carefully remove any dirt and dust after drilling (by vacuuming and blowing out if necessary).

c) Carefully hammer in the anchor bolts straight using a sledgehammer.

d) Tighten the nuts. Tightening torque: 60-80 Nm.

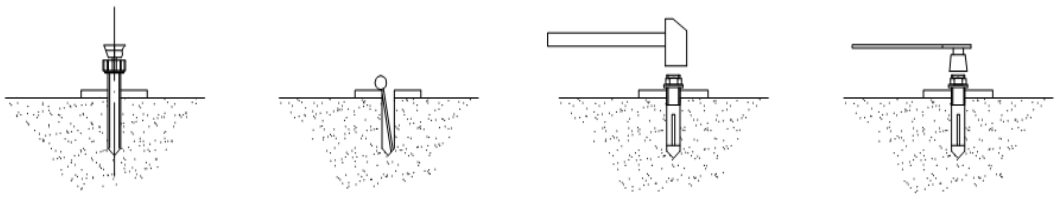
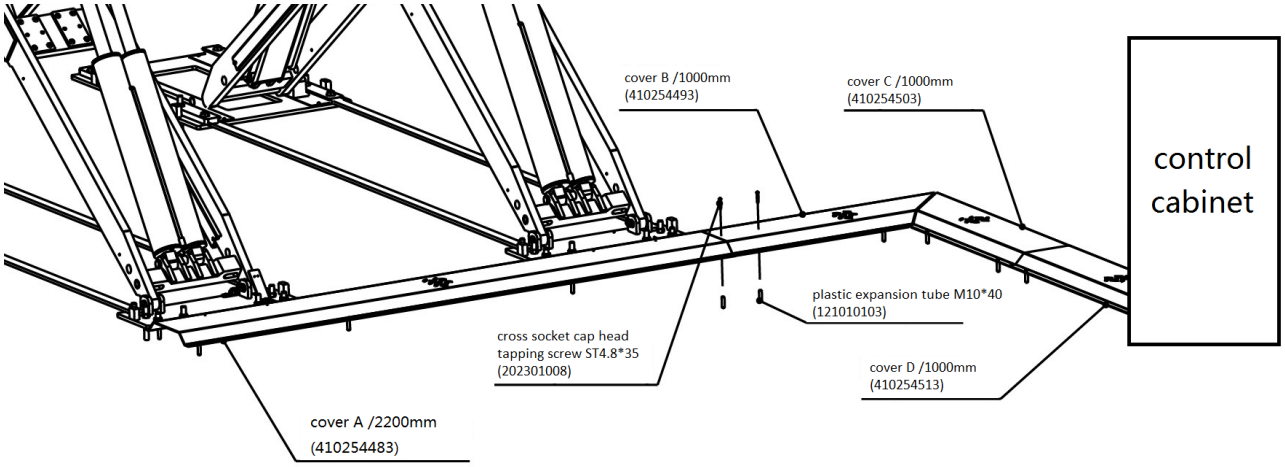


Illustration: Steps for fastening the anchor bolts

8) Fastening the oil hose protection cover.



8.4 Checkpoints after installation

S/N	Checkpoint	Yes	No
1	Torque of the fastening bolts: 60-80 Nm		
2	Lifting speed ≥20mm/s		
3	Noise level under load ≤75dB		
4	Earthing resistance not greater than 4Ω		
5	Height difference of the platforms ≤5mm		
6	Mechanical safety catches engage synchronously when lifting under nominal load?		
7	Function switches (Up, Down) function as "hold to function"?		
8	Limit switch function given?		
9	Earthing cable connection?		
10	Lifting platform raises and lowers gently?		
11	No unusual noises during operation under nominal load?		
12	No oil leakage under nominal load?		
13	No pneumatic leakage under nominal load?		
14	All screws, nuts or circlips securely fastened?		
15	Lifting height reached?		
16	Safety instructions and type plate clearly recognisable?		

9. Commissioning

9.1. Safety precautions

a) If the safety devices are defective or show signs of damage, the post lift must not be used under any circumstances!

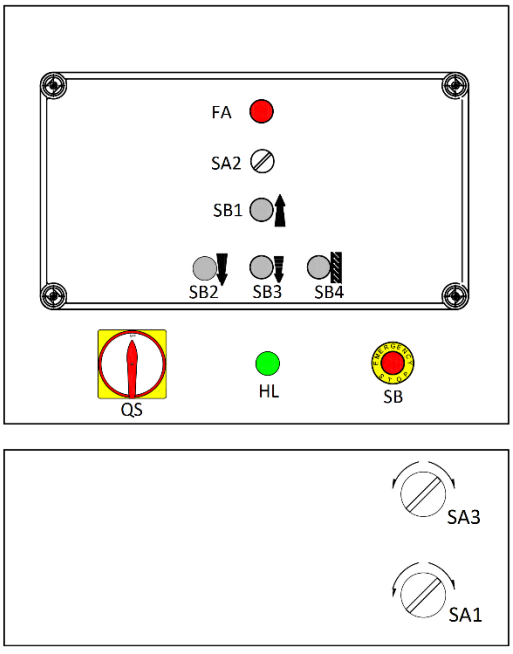
b) Check all hydraulic line connections to ensure they are secure and in good working order. If there are no leaks, the lifting process can begin.

c) Only the operator should be near the post lift during a lifting or lowering operation. Always ensure that no persons are in the danger zone.

d) Check that the vehicle is stable at a low lifting height to ensure that it is positioned correctly and securely. If this is not the case, the post lift should not be used. Otherwise, neither we nor any intermediary dealer will accept responsibility for any problems or damage caused as a result.

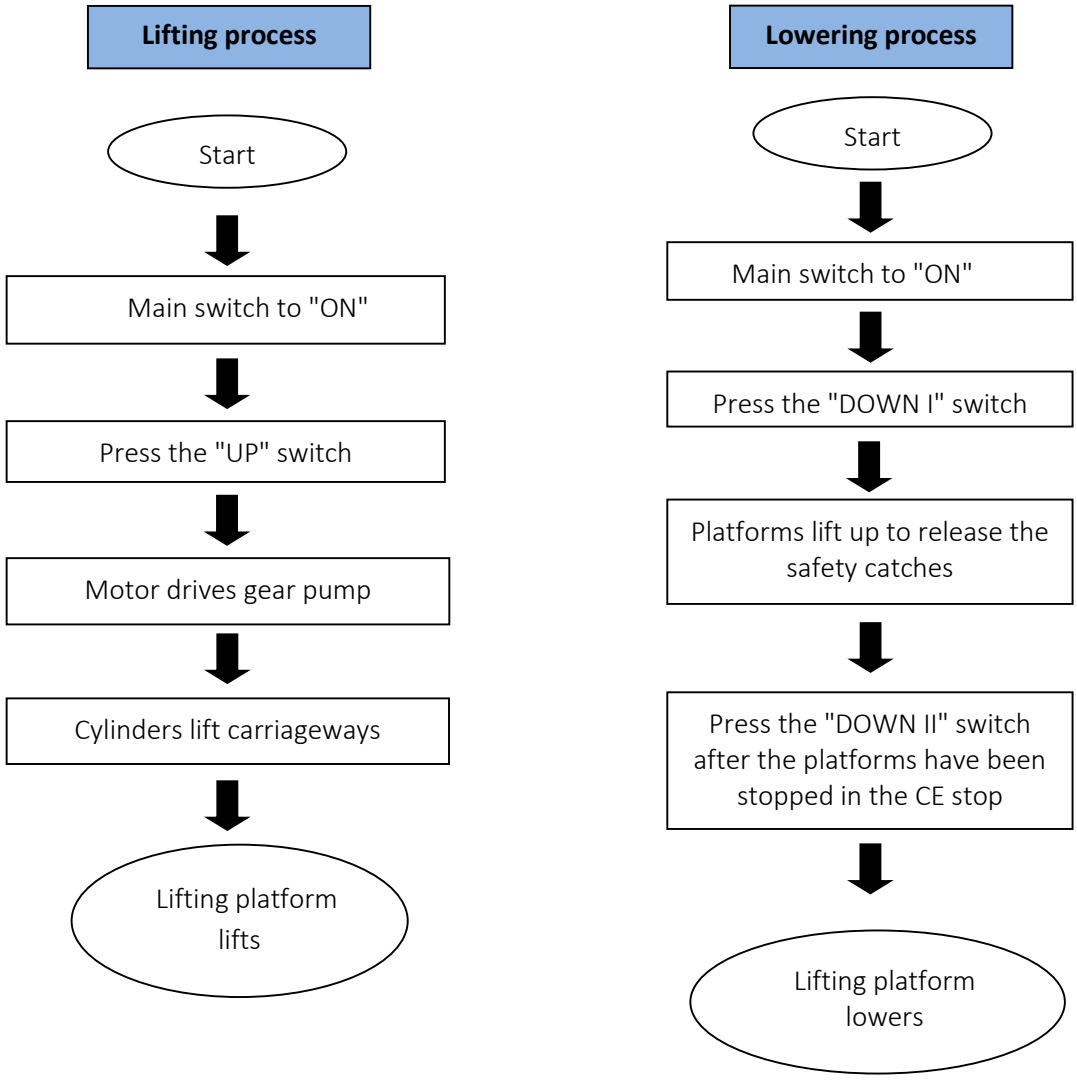
e) Do not attempt to lift vehicles that are excessively long or wide.

9.2. Description of the control unit (control box)



S/N	Description	Function
FA	Alarm signal	Acoustic warning when lowering
SB1	"UP" switch	To lift the lifting platform
SB4	"LOCK" switch	lowers into the safety catch
SB2	"DOWN" switch	To lower the lift
SB3	"DOWN 2" switch	Lowers from the CE stop
SB	Emergency Stop	Stops the movement in an emergency
HL	Operating display	Indicates whether the power supply is established
QA	Main switch	Power supply On/Off
SA1	Selector lever	Switch between working mode and levelling mode
SA2	Selector lever	Switch between main platform (lift) and wheel free jack
SA3	Selector lever	Switches off the infrared light barrier for levelling operation

9.3 Ablaufplan Hebe- und Senkvorgang



9.4 Operating instructions

9.4.1 Lifting the lifting platform

When lifting the lift, make sure that there are no people or objects in the working area. Ensure that the vehicle is not too heavy at the front or rear and that the centre of gravity is centred in the middle of the lift.

1. Drive and park the vehicle in the centre between two platforms. Ensure that the vehicle is correctly positioned and secured against rolling away.
2. Set the optional switch on the control panel to "lift" (main platforms).
3. Press the "UP" button on the control panel to raise the vehicle slightly off the ground and check again that the vehicle is in a safe position.
4. Raise the vehicle to the desired height and press the "lock" button (lowering into the safety catches) to ensure that the mechanical safety lock is engaged and check the stability again before carrying out maintenance or repair work.

9.4.2 Lowering the lift

When lowering the lifting platform, make sure that there are no persons or objects in the working area.

1. Press the "Down I" button to lower the lift. The lift is first raised automatically to release the mechanical locks. Lowering is completed when the platform lowers to a distance of approx. 600 mm above the floor.
2. Press the "DOWN II" button to lower the platforms further. The buzzer alarm will sound in the meantime.
3. Remove the rubber pads and other tools after the lift has been fully lowered to ensure an unobstructed exit from the lifting area for the vehicle to be moved.
4. Drive the vehicle off the lifting platform.

9.4.3 Raising and lowering the wheel-free jack

Lifting the wheel-free jack

1. Set the optional switch on the control panel to "wheel free jack".
2. Place rubber pads under the vehicle's mounting points specified by the manufacturer. If it is necessary to use the platform extensions, press the "UP" button to raise the platforms of the wheel-free jack slightly above the platforms of the main platform and pull out the extensions to the required length.
3. Press the "UP" button and check again that the rubber pads are directly under the vehicle's mounting points if they are very close to the mounting points.
4. Press and hold the "UP" button until the desired height is reached. The full height is 450 mm above the platform of the main platform.

Lowering the wheel-free jack

Caution: If the platform extensions of the "wheel-free jack" are used, the operator must retract both extensions when the four wheels of the vehicle have sufficient contact with the main lifts.

1. Turn the selector switch on the control panel to "wheel free jack".
2. Press the "DOWN I" button on the control panel to lower.
3. Remove the rubber pads.

Caution: If the lift runs asynchronously with a height deviation of more than 60 mm during the lifting or lowering process, the synchronisation protection is activated to stop any lifting or lowering movement. In this case, the normal operator must request professional assistance from maintenance personnel to restore the lift to normal operating condition.

10. Troubleshooting

Attention: Do not hesitate to contact the expert staff of TWIN BUSCH® GmbH if you are unable to rectify an error yourself. We will be happy to help you solve the problem. In this case, please document the fault and send us pictures and a precise description of the fault so that we can identify and rectify the cause as quickly as possible.

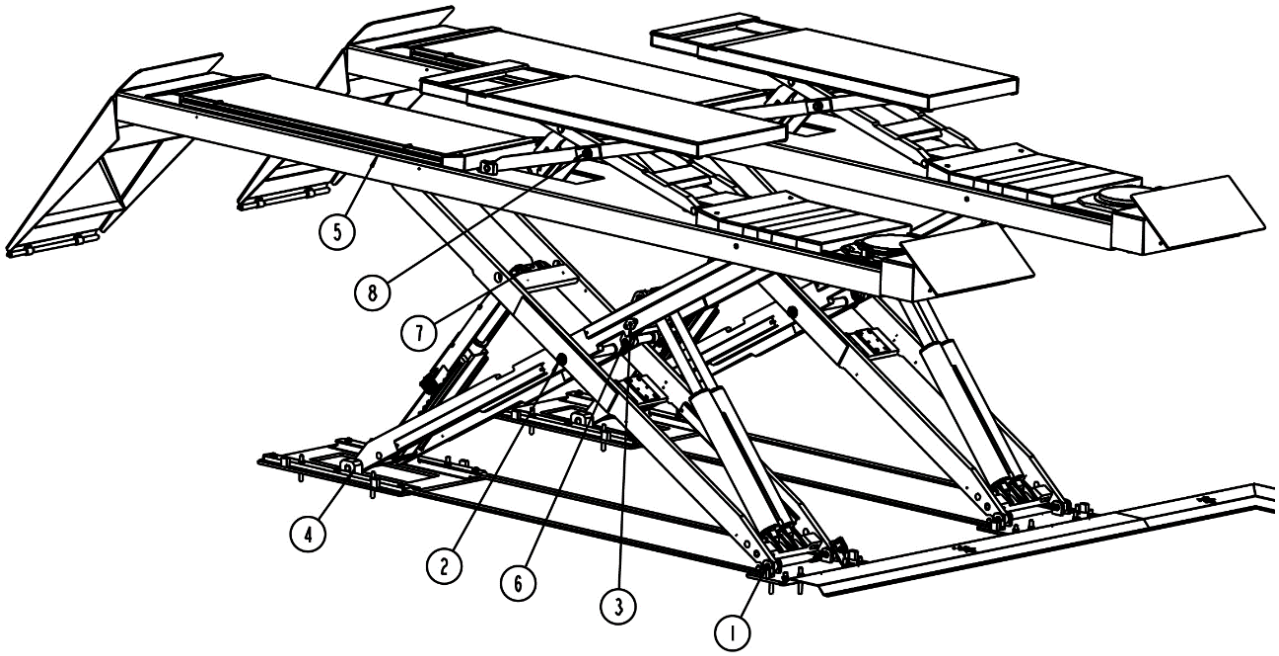
The following table lists possible errors, their cause and the associated troubleshooting for quicker identification and self-remedy.

PROBLEMS	CAUSE	SOLUTION
Unusual noise.	Wear on the inside of the pillars.	Grease the inside of the pillars.
	Contamination in the columns.	Remove the dirt.
The motor cannot be started, nor does the lift move up.	The cable connections are loose.	Check the cables and reconnect them.
	The motor is defective.	Replace it.
	The limit switch is defective/damaged or the cable connection is loose.	Reconnect the cables or replace the limit switch.
Motor runs, but does not raise the lift.	The motor is running backwards/in the wrong direction of rotation.	Swap two of the phases to reverse the direction.
	The pressure relief valve is loose or dirty.	Clean or screw it tight.
	The gear pump is defective.	Replace them.
	The oil level is too low.	Top up with oil.
	The oil hose has come loose or is torn off.	Fasten or replace it.
	The damping valve is loose or jammed/blocked.	Clean or fasten it.
The beams lower slowly after they have been raised.	The oil hose is leaking.	Check or replace it.
	The oil cylinder/piston is leaking.	Replace the seal.
	The directional valve is leaking.	Clean or replace it.
	The pressure relief valve is leaking.	Clean or replace it.
	Manual or electric drain valve is leaking/dirty.	Clean or replace it.
Lifting too slowly.	The oil filter is dirty or jammed.	Clean or replace it.
	Oil level is too low.	Top up with oil.
	The pressure relief valve is installed incorrectly.	Mount it correctly.
	The hydraulic oil is too hot. (over 45°C)	Change the oil.
	The cylinder seal is worn.	Replace the seal.

11. Maintenance

Regular Simple and inexpensive routine maintenance can ensure that the lift operates normally and safely. Follow the following routine maintenance schedule in relation to the actual working condition and frequency of use of your lift.

Lubricate the following components and moving parts with lithium grease:



S/N	Component	Method	Repetition
1	Control buttons	Check whether the control buttons function as "press and hold to move" and whether they fulfil the specified function.	Daily
2	Limit switch max. height	Press the "UP" button and check that the lift does not continue to rise at maximum lifting height.	Daily
3	Pneumatic filter	Check the filter to ensure that it is not leaking. Check and ensure that the water level is below the maximum mark and the oil level is above the minimum mark.	Daily
4	Hydraulic block and valves	Check whether the valves are leaking. Clean or replace the valve if leaks occur.	Monthly
5	Oil hoses and connections	Before using the lift, check that there are no leaks.	Daily
6	Pneumatic hoses and connections	Before using the lift, check that there are no leaks.	Daily
7	Safety catches	Press the control buttons to check whether both mechanical latches can be engaged and disengaged simultaneously.	Daily
8	Glider	Apply grease to the tracks to ensure smooth running. Check whether the glides are worn. Replace worn glides.	Monthly

S/N	Component	Method	Repetition
9	Terminals in the control unit	Open the control unit, check the cable clamps and tighten them if any clamps have come loose.	Every 3 months
10	Joint axis	Apply grease to the moving parts	Every 3 months
11	Fixing anchor	Check whether the tightening torque is still present. Tightening torque: 60-80 Nm	Every 3 months
12	Self-locking nuts	Check whether the tightening torque is still present. The torque should be at least 330 Nm.	Every 3 months
13	Mounting bracket of the wheel-free jack	Check with a torque spanner. The torque should be at least 55 Nm.	Every 3 months
14	Lifting platform synchronisation	Check the synchronisation of both lifting platforms. Ensure that both platforms lift and lower synchronously.	Daily
15	Hydraulic oil	Change the oil 6 months after the first use and then once a year. Check the hydraulic oil and change the oil if the oil turns black or if there is dirt in the oil tank.	Annually
16	Complete lifting platform	Run the lift several cycles with and without nominal load. The lift should move smoothly and evenly without any unusual noises.	Every 3 months

Rust protection

- Always keep painted surfaces dry and clean.
- Avoid prolonged contact with liquids.
- Wipe spilled liquids off platforms and crossbars immediately.
- Immediately remove any residues and deposits that could damage the paintwork and cause rust (e.g. road salt, sand/soil/gravel, industrial dust, aggressive deposits).

Cleaning method

- Only use lukewarm water with standard washing-up liquid or a mild, non-aggressive cleaning agent. Apply the cleaning agent with a sponge or soft brush.
- Rinse the cleaning agent thoroughly to remove all residues.
- Never use high-pressure cleaners, steam cleaners, abrasive cleaners or chemical products.
- Dry the post lift completely immediately with a suitable cloth. Spray it lightly with a wax- or oil-based protective spray.
- Check the paintwork regularly.
- Avoid sharp or hard metal parts scratching or hitting the painted surfaces.
- Avoid placing overheated light sources near the painted surfaces.
- Deep scratches or damaged areas must be repaired immediately to prevent water ingress from accelerating oxidation and rust formation.
- Epoxy resin paint is recommended for repairs.

If you follow the above maintenance intervals and maintenance activities, your post lift will remain in good condition and damage and accidents will continue to be avoided.

Note: After ten years of operation at the latest, a general assessment of the remaining service life must be carried out by a qualified technician – preferably by a specialist authorised by the manufacturer.

12. Behavior in the event of an incident

If the lift malfunctions, simple faults may be the cause. Use the following list for troubleshooting *).
If the cause of the error is not listed or cannot be found, please contact the expert TWIN BUSCH® GmbH team.
Never attempt to carry out repairs yourself, especially on safety devices or electrical system parts.

*) Points depending on the design and type of the lifting platform

 Work on electrical systems only by qualified electricians!

Problem: Lifting platform can neither be raised nor lowered.

Possible causes	Remedy
No power supply available.	Check power supply.
Power supply interrupted.	Check power supply line.
Main switch not switched on or defective.	Check main switch. 
Emergency stop pressed or defective.	Unlock emergency stop, check. 
Fuse in power connection has blown or is defective.	Check fuse.
Fuse in the switch box has blown or is defective.	Check fuse.

Problem: Lifting platform cannot be raised.

Possible causes	Remedy
With three-phase current: one phase is missing.	Check power supply. 
With three-phase current: Direction of rotation of motor reversed.	Check direction of rotation, change phase if necessary. 
Oil pump defective.	Notify TWIN BUSCH® Service.
Emergency drain open.	Close emergency release valve.
Motor is defective.	Notify TWIN BUSCH® Service.
Overload.	Overload valve has opened, reduce load.

Problem: Lift cannot be lowered.

Possible causes	Remedy
Lifting platform sits in safety catches.	Raise platform a little, pull detents, lower.
Lifting platform has moved into limit switch.	If necessary, loosen limit switch, raise 1 cm and lower.
Motor is defective.	Open safety latch and lift over. Lower emergency drain.
Lifting platform has been blocked during lowering.	Raise the lifting platform slightly again and remove the obstacle.

13. Disassembly

The post lift may only be dismantled by qualified personnel. In particular, work on electrical components may only be carried out by qualified electricians in order to avoid the risk of electric shock or malfunction. Similarly, work on hydraulic or pneumatic systems may only be carried out by trained personnel with specific expertise in hydraulics or pneumatics. Compliance with these specifications ensures safe and proper decommissioning of the system.

1) Switch off the system at the main switch (OFF position) before carrying out any dismantling work.

2) Attach a warning sign to prevent the system from being switched back on.

3) Disconnect the power supply.

Caution: Improper dismantling of hydraulic components poses a risk of fatal injury. These components are under pressure (up to 200 bar).
Under no circumstances should you dismantle the hydraulic components (lift cylinders)!
These must always be uninstalled as complete components.
Post lift cylinders should only be disposed of properly by a certified company.

4) Empty the hydraulic oil tank and drain the oil from the hydraulic hoses. Dispose of the hydraulic oil (see 14 Disposal).

5) Remove lubricants and other chemical substances. Dispose of these (see 14 Disposal).

6) Dismantle the supports, crossbars and crossbeams of the post lift.

14. Disposal

In order to inform users how to dispose of the product properly (as required by Article 26, paragraph 1 of Legislative Decree 49/2014), the following is communicated:

The meaning of the crossed-out wheelie bin symbol on the device indicates that the product must not be disposed of with residual waste (i.e. together with "mixed municipal waste"). Instead, it must be disposed of separately so that waste electrical and electronic equipment can be sent for appropriate reuse or treatment. This allows environmentally hazardous substances to be safely removed and disposed of, and reusable raw materials to be recovered and recycled.

14.1 Ecological disposal methods

- Prevent environmental pollution.
- Avoid contact with or inhalation of toxic substances such as hydraulic fluid.
- Oils and lubricants are water pollutants according to the WGH Water Protection Act. Always dispose of them in an environmentally friendly manner and in accordance with the regulations of your country.
- Mineral oil-based hydraulic oils are water pollutants and flammable. Refer to the relevant safety data sheet for disposal.
- Provide suitable oil drain pans and oil binders for draining the oil.
- Ensure that no hydraulic oils, lubricants or cleaning agents contaminate the soil or enter the drainage system.

14.2 Packaging material

Do not dispose of in household waste!
The packaging material contains some recyclable materials that must not be disposed of in household waste. Dispose of the packaging material in accordance with the regulations applicable in your country.

14.3 Oils, grease and other chemical substances

- When working with oil, lubricants and other chemical substances, comply with the environmental regulations that apply to the product in question.
- Dispose of oil, lubricants and other chemical substances in accordance with the environmental regulations applicable in your country.

14.4 Metals/electrical waste

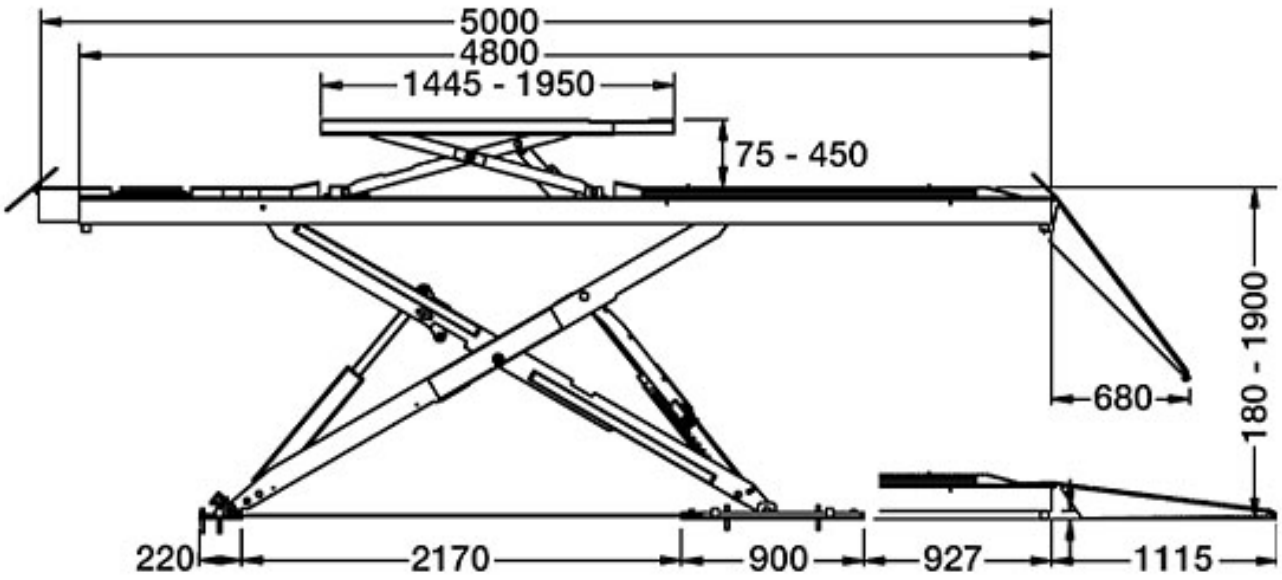
Metals/electrical waste should only be disposed of properly by a certified company. Dispose of used electrical and electronic equipment, including cables, accessories and batteries, separately from household waste.

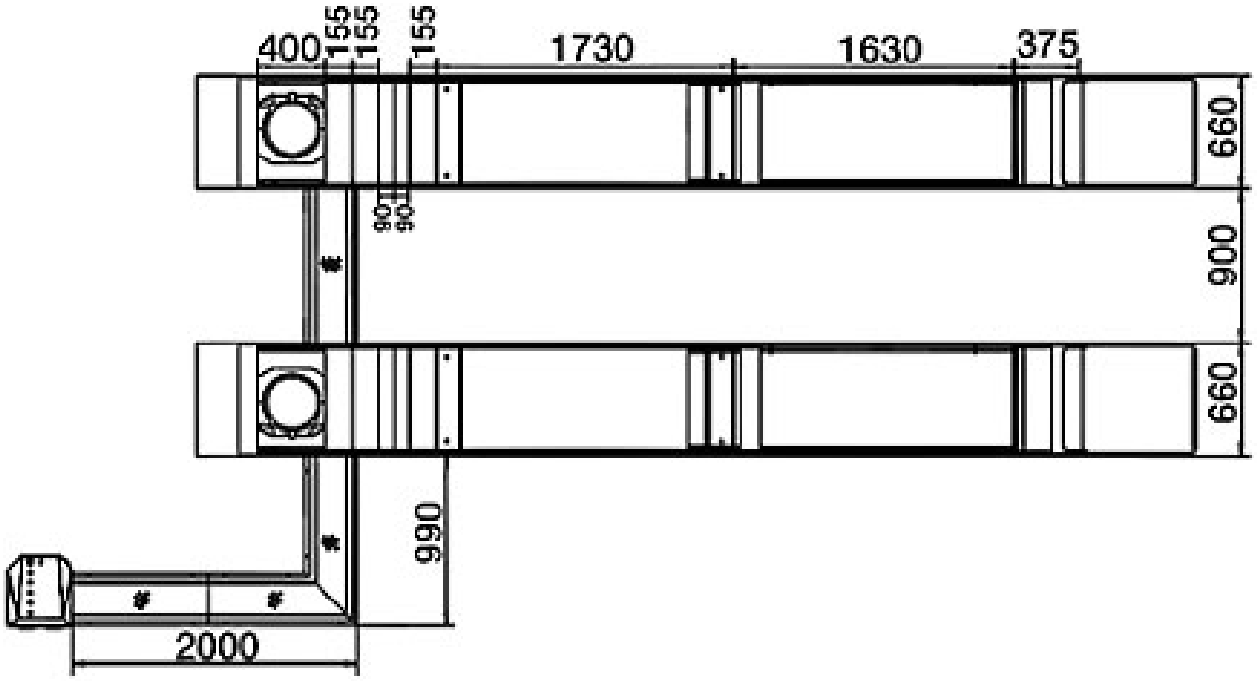
15. Appendix

15.1. Packing list for the lift

S/N	Name	Specification	Quantity
1	Pre-assembled lifting platform	6604V2	2
2	Fixing anchor	M16*120	16
3	Control unit	3.5kW	1
4	Access ramps	6604V2-A9	2
5	Cover plate A (L=2200mm)	6604V2-A13	1
6	Cover plate B (L=1000mm)	6604V2-A14	1
7	Cover plate C (L=1000mm)	6604V2-A15	1
8	Cover plate D (L=1000mm)	6604V2-A16	1
9	Allen screw with hexagon socket	ST4.8*35	20
10	Plastic dowels	M10*40	20
11	Cheese head screw with hexagon socket	M6*12	4
12	Nut	M6	4
13	Washer	M6	4

15.2. Dimension of the lift





15.3. Foundation requirements and working area

Requirements for the concrete:

- Concrete C20/25 according to DIN 1045-2 (previous designation: DIN 1045 concrete B25).
- The floor must be level and have a flatness of less than 5 mm/m.
- Newly poured concrete must cure for at least 28 days.

Foundation dimensions:

- Ideally, the entire hall floor should be made of C20/25 concrete with a thickness of at least 150 mm.
- In all lifting positions, there must be a distance of at least 0.8 metres between the lifting platform and the fixed elements (e.g. the wall).

Other requirements:

- The surrounding ground must be suitable for the load, e.g. no sandy soil, etc.
- Reinforcement in the concrete is not mandatory for the proper use of the scissor lift, but is recommended.
- The scissor lift must NOT be installed on ceilings or floors with basements without authorisation. If in doubt, the foundation should always be designed by a structural engineer; this is essential for ceilings or floors with basements.
- If tiles, screed, insulation and underfloor heating are used, please consult our technical department.

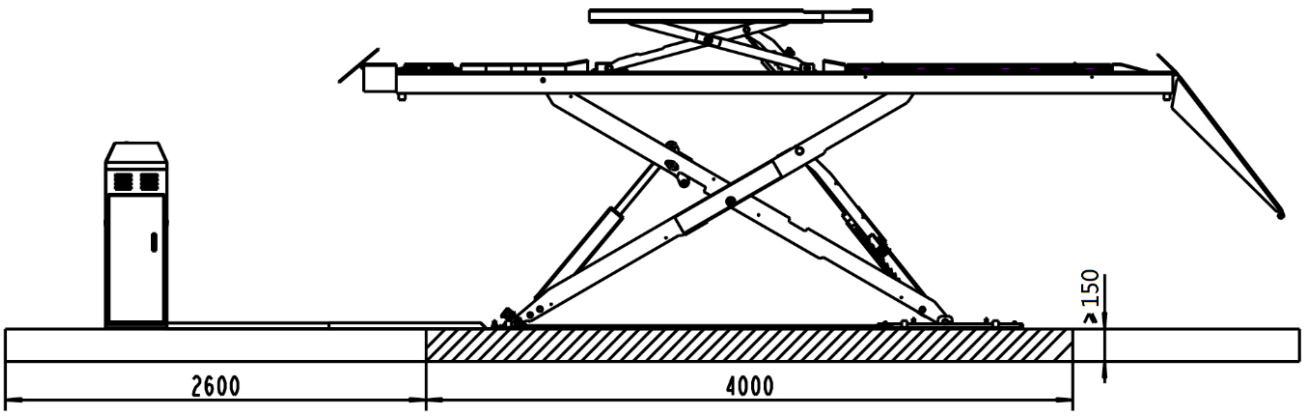
The following must be observed for soil exposed to frost:

In the case of frost exposure, the concrete must correspond to exposure class XF4, as dripping de-icing agent cannot be ruled out.

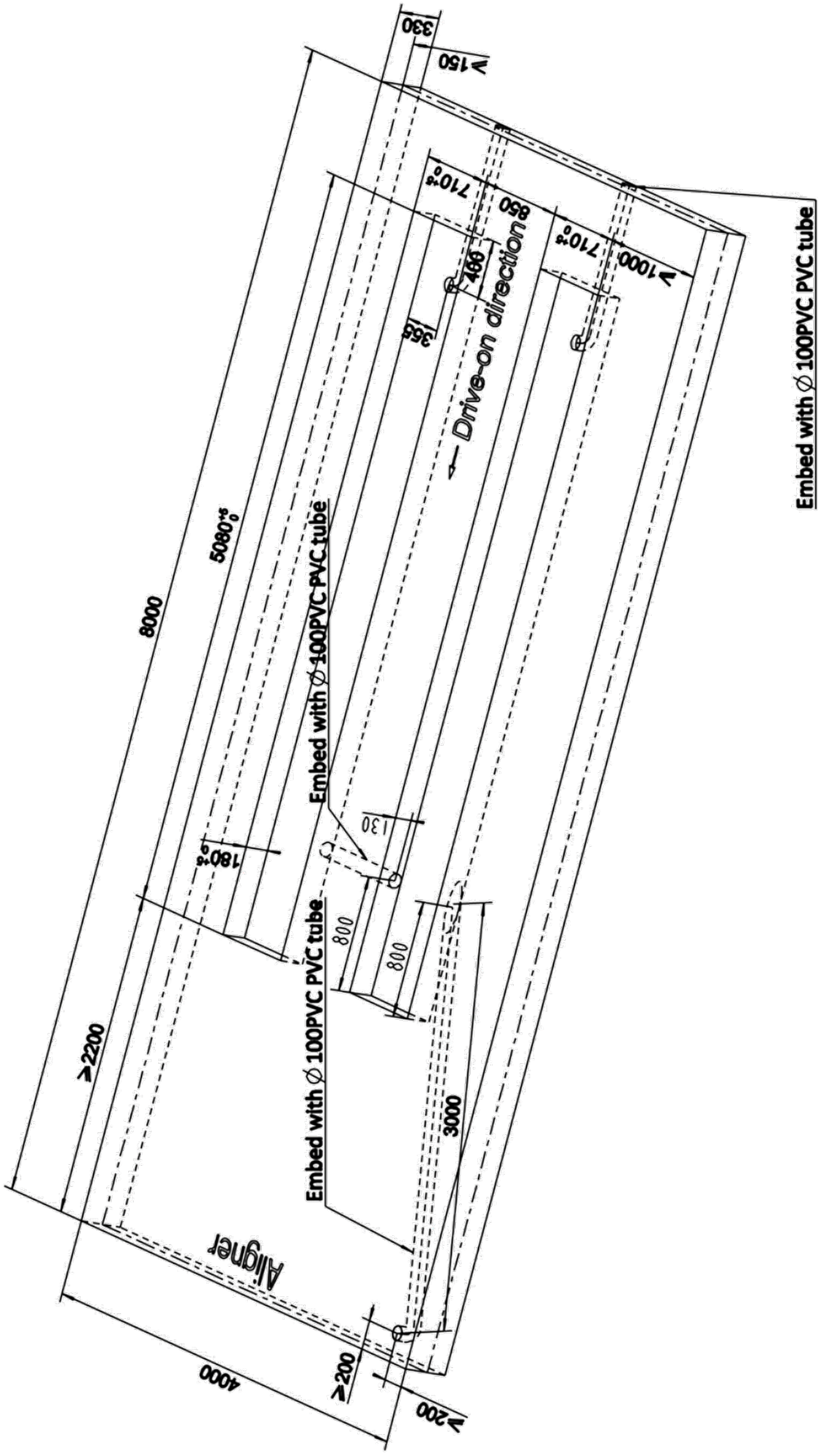
This results in the following minimum requirements for concrete under frost stress:

Exposure class:	XF4
Maximum w/c:	0,45
Minimum compressive strength:	C30/37 (instead of C20/25)
Minimum cement content:	340 kg/m³
Minimum air void content:	4.0 %
Total foundation depth:	≥ 80 cm (due to frost resistance)
Remainder filled with gravel:	0/32

However, it must be noted that the lifts are not designed for outdoor use (except for galvanised models). Although the control box complies with IP54, the rest of the electrics, motors and limit switches have a maximum IP44 rating.

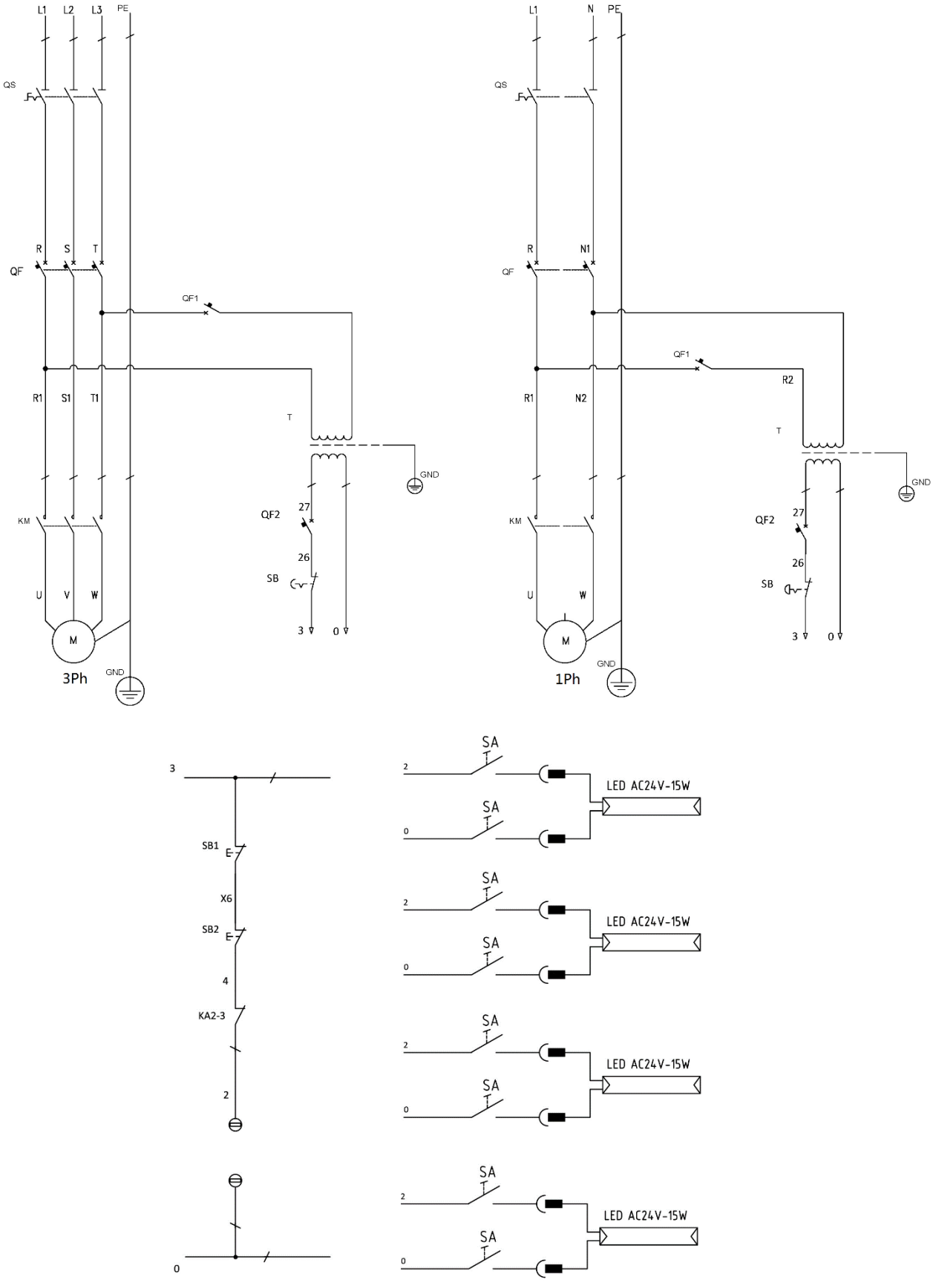


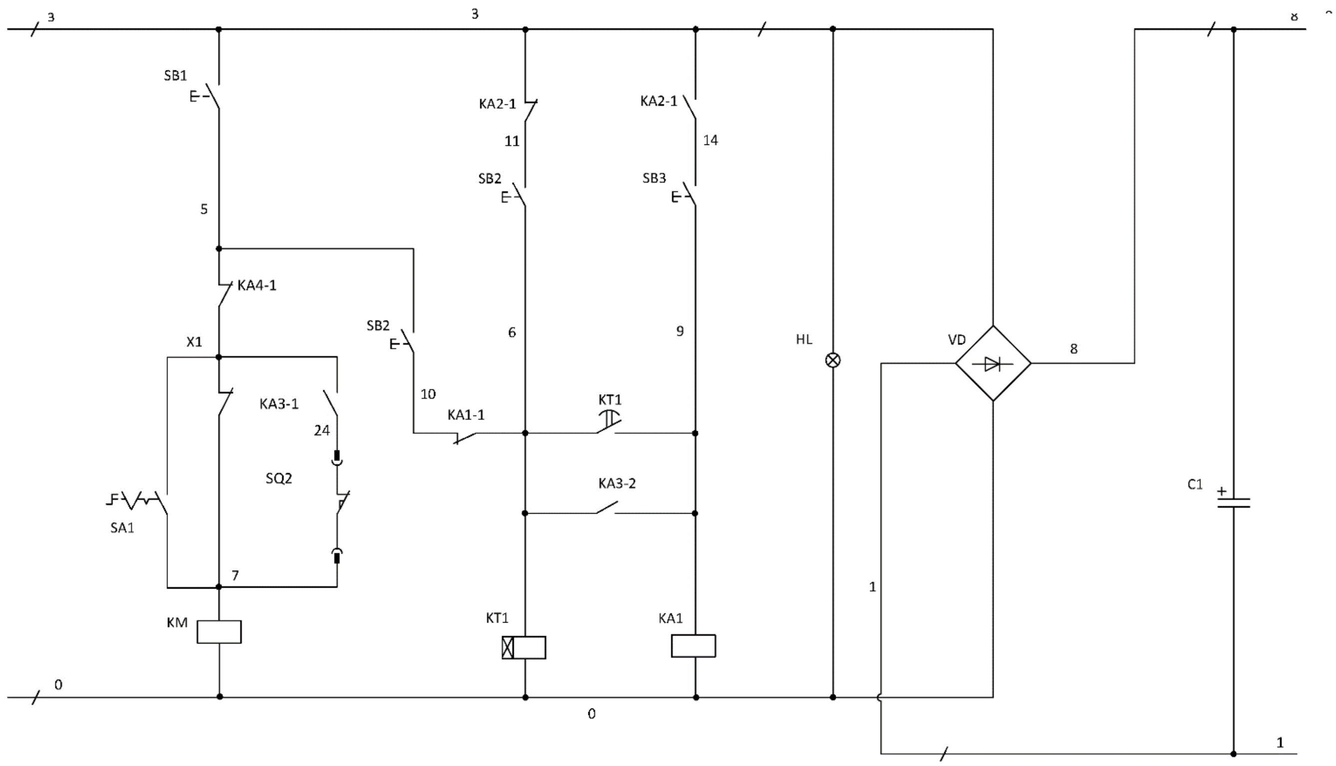
Floor plan for underfloor mounting

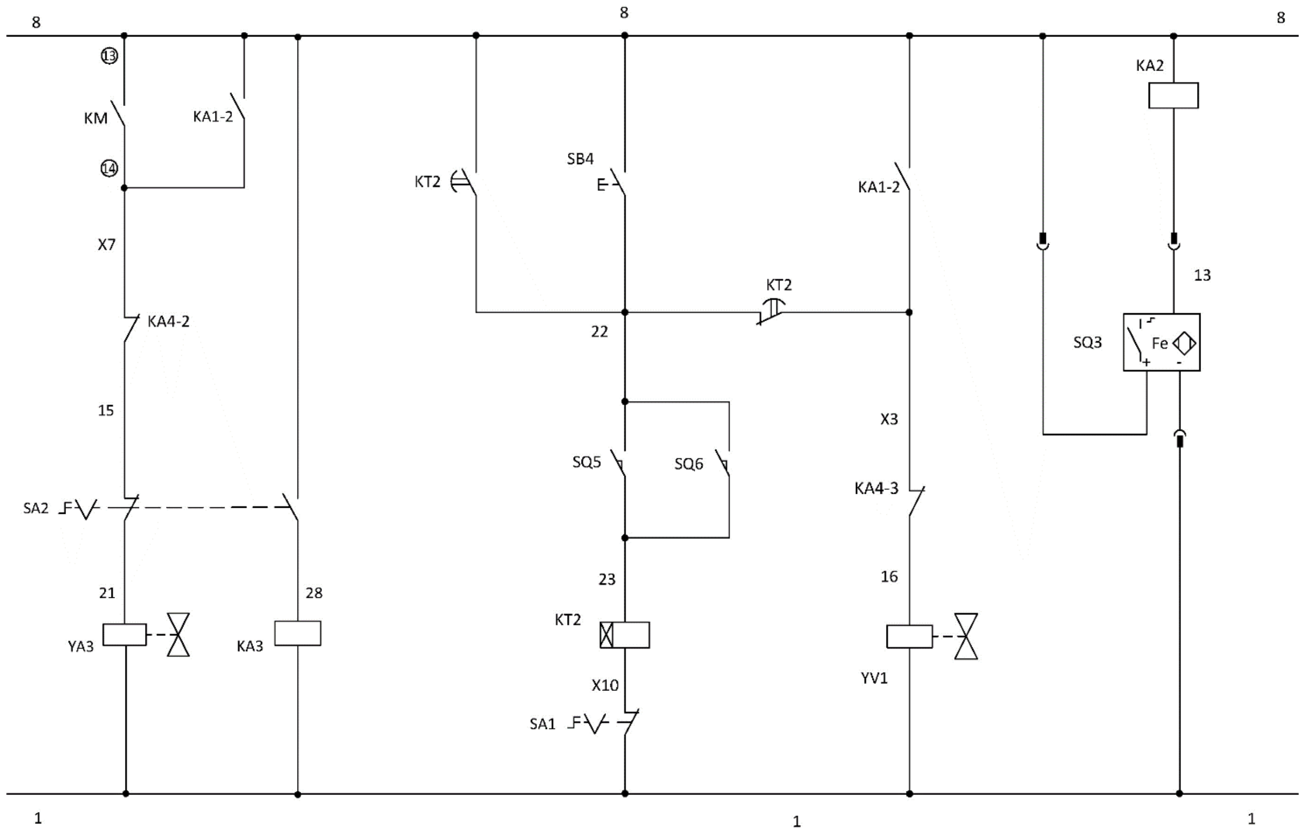


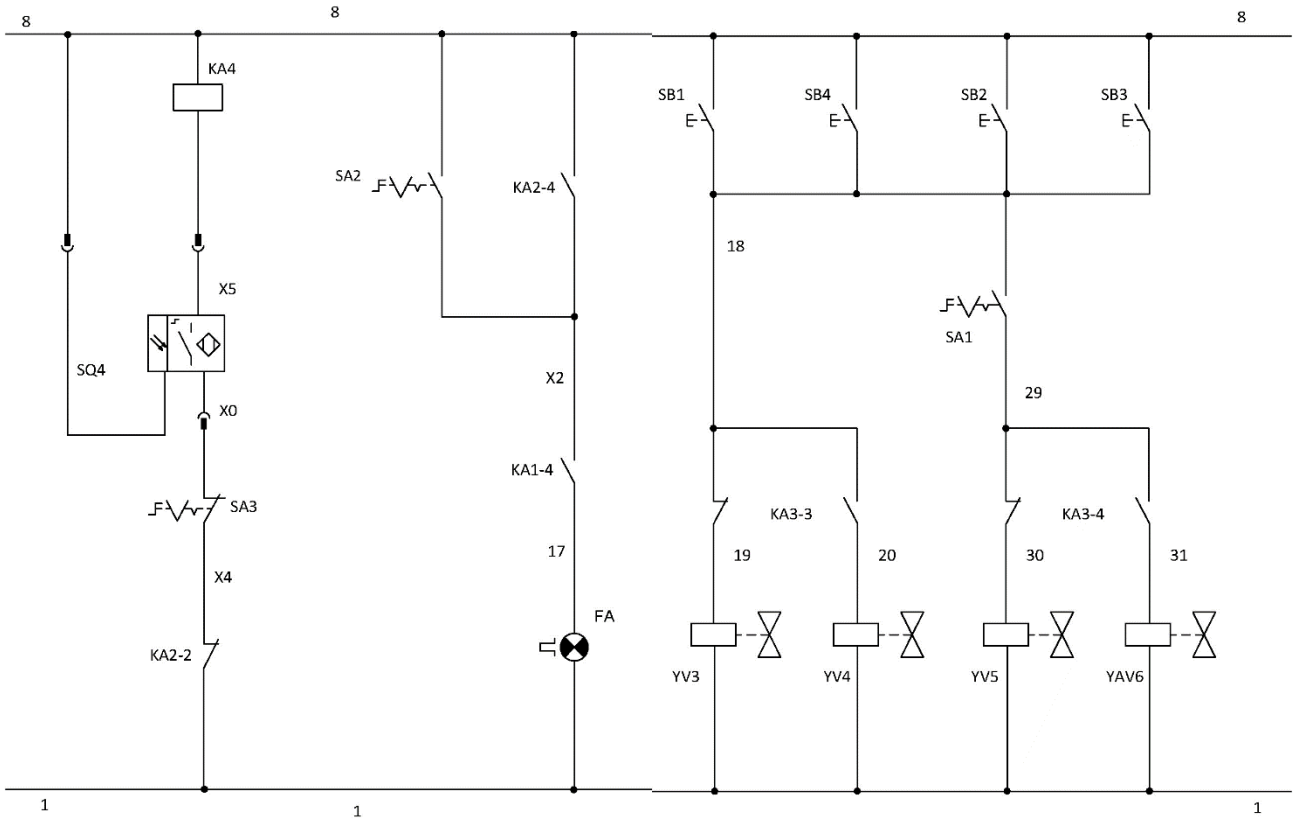
15.4. Electrical circuit diagram

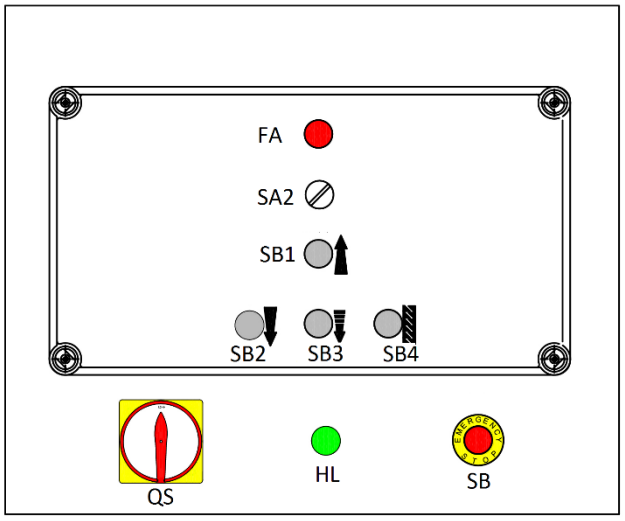
(Note: For specific voltage requirements, the actual voltage of your lift may vary based on the diagram below).



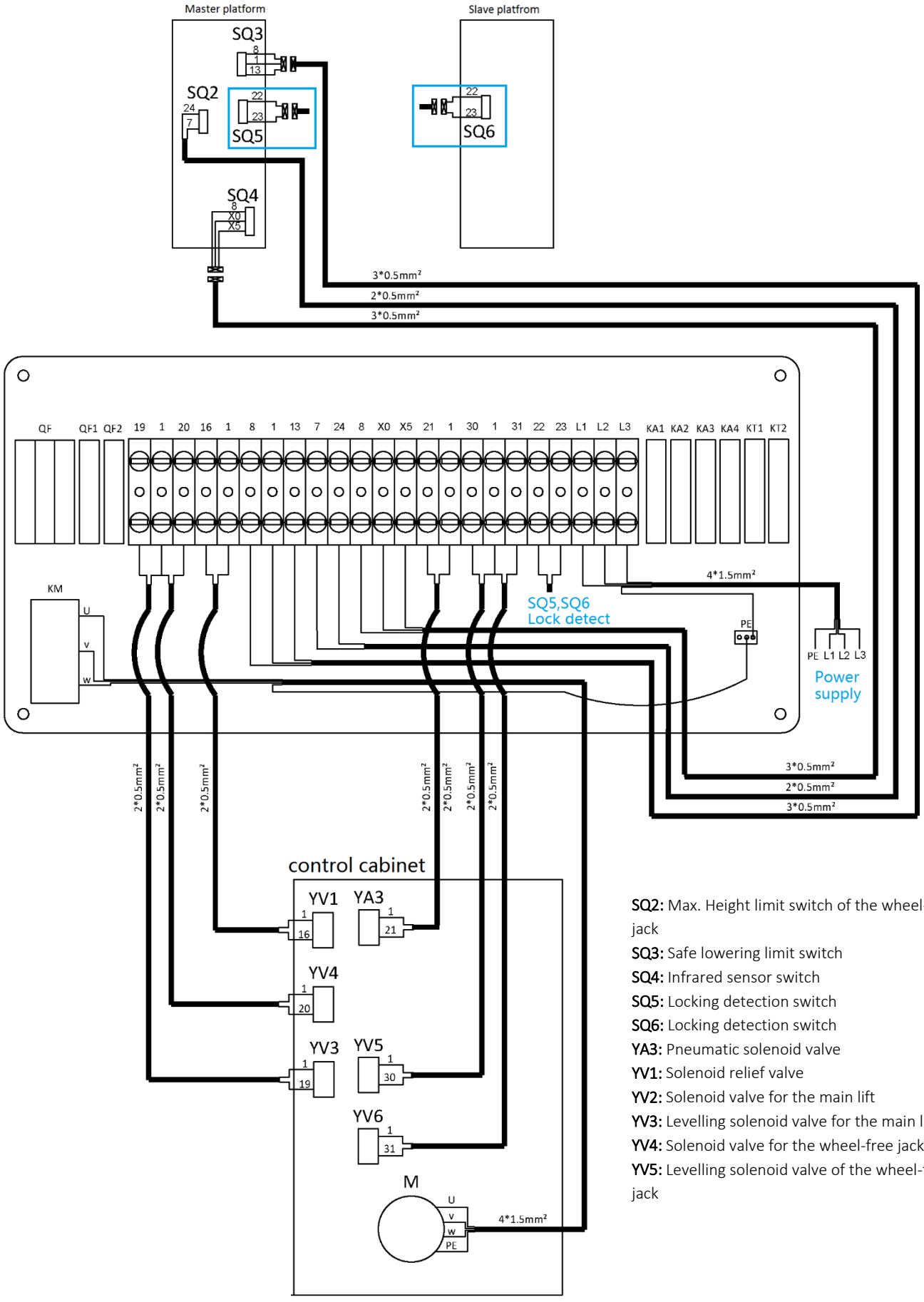

3
3
SB1
KA2-1
KA2-1
11
14
SB2
SB3
5
KA4-1
X1
SB2
6
9
HL
VD
8
KA3-1
10
24
KA1-1
KT1
SQ2
KA3-2
C1
SA1
7
1
KM
KT1
KA1
0
0
1


8
8
8
KA2
KM
KA1-2
KT2
SB4
KA1-2
X7
KT2
13
KA4-2
22
SQ3
Fe
15
X3
SQ5
SQ6
KA4-3
SA2
21
28
23
16
KT2
YA3
KA3
YV1
X10
SA1
1
1
1


8
8
8
KA4
SA2
KA2-4
SB1
SB4
SB2
SB3
18
X5
SQ4
X2
SA1
29
X0
KA1-4
SA3
KA3-3
KA3-4
17
19
20
30
31
X4
FA
KA2-2
YV3
YV4
YV5
YAV6
1
1
1


FA
SA2
SB1
SB2
SB3
SB4
QS
HL
SB


SA3
SA1

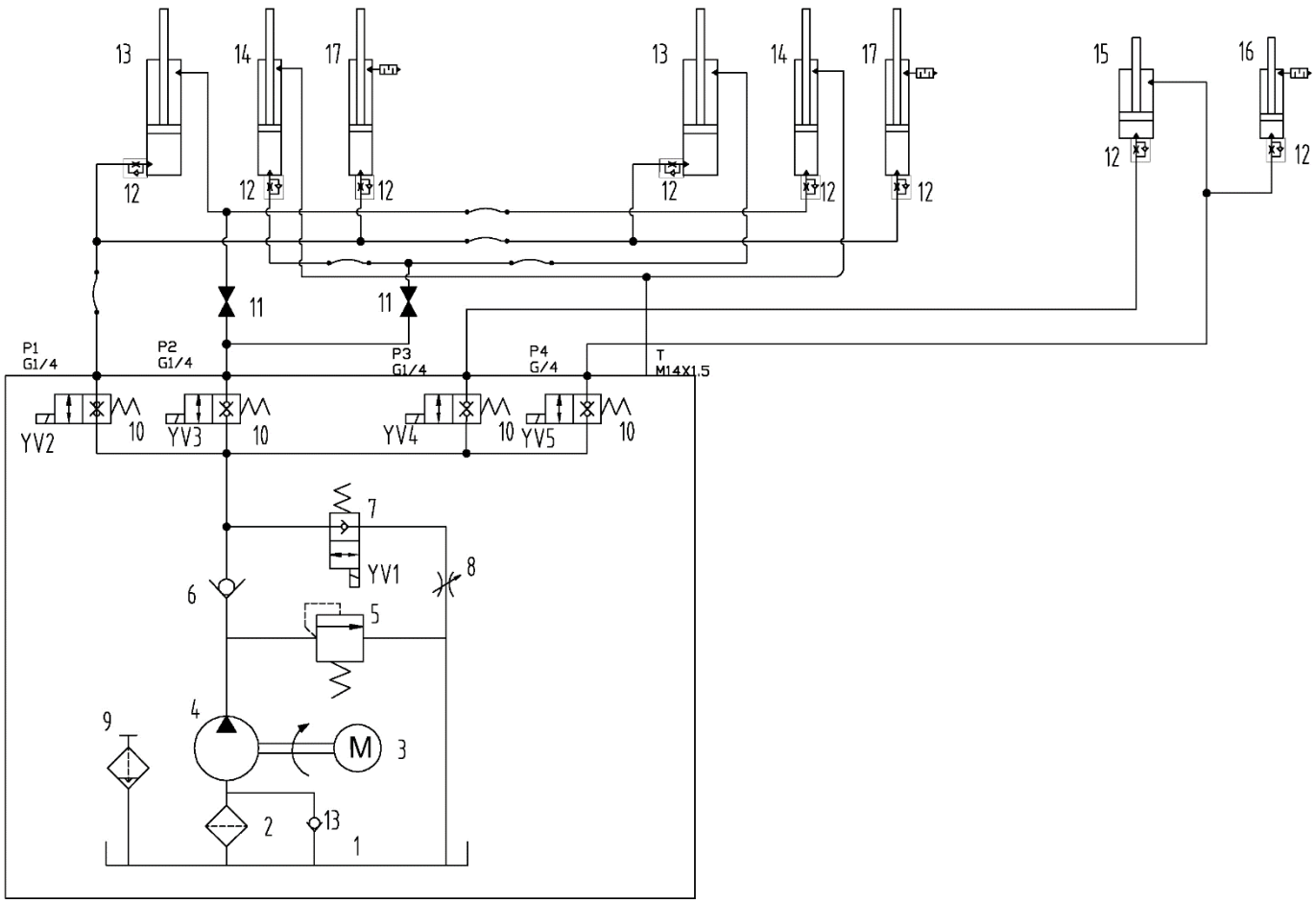


SQ2: Max. Height limit switch of the wheel-free jack
SQ3: Safe lowering limit switch
SQ4: Infrared sensor switch
SQ5: Locking detection switch
SQ6: Locking detection switch
YA3: Pneumatic solenoid valve
YV1: Solenoid relief valve
YV2: Solenoid valve for the main lift
YV3: Levelling solenoid valve for the main lift
YV4: Solenoid valve for the wheel-free jack
YV5: Levelling solenoid valve of the wheel-free jack

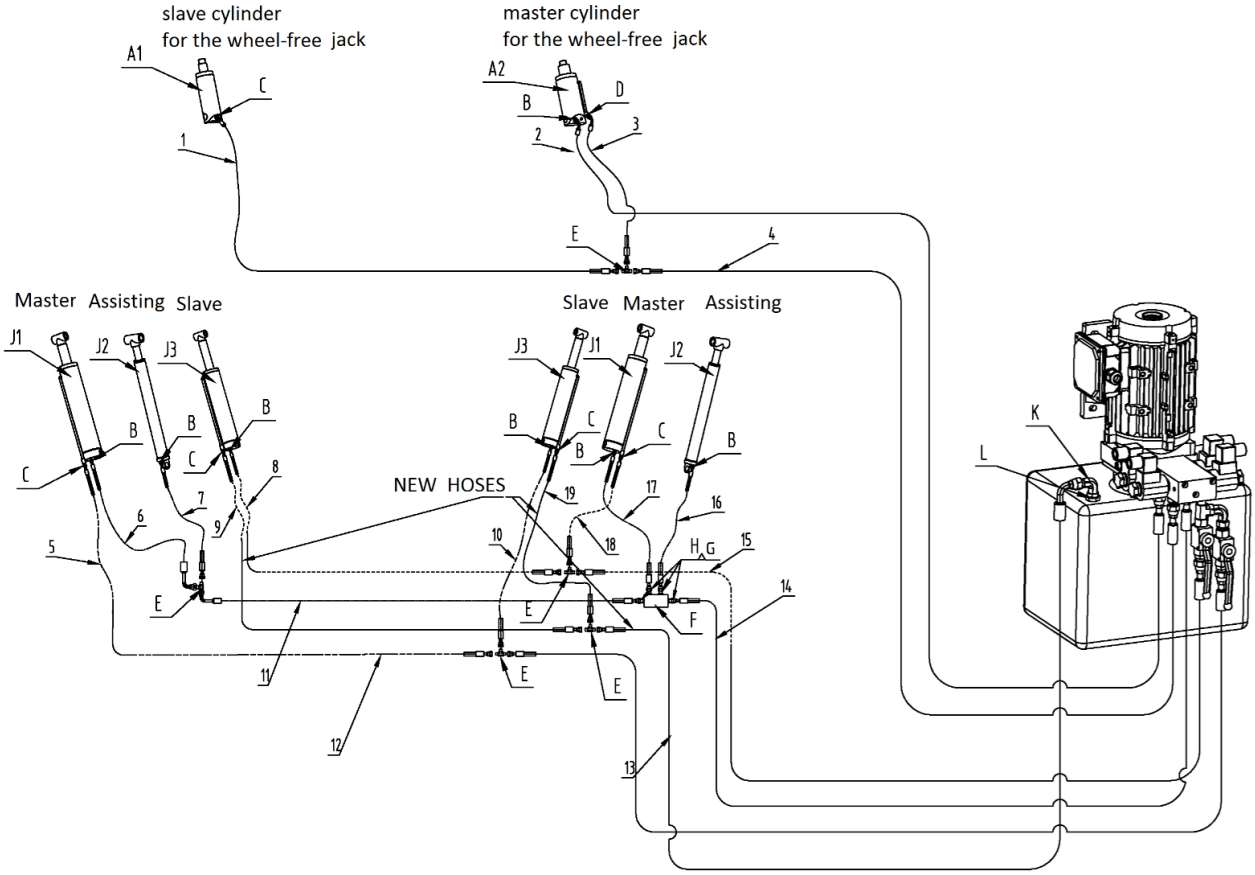
S/N	Code	Name	Quantity
T	320101128	Transformer （380V/400V/415V）	1
M		Motor	1
SQ1	320301003	Limit switch (no this switch for version with auto-bleeding cylinders)	1
SQ2	320301011	Limit switch	1
SQ3	320302002	Proximity switch	1
SQ4	320307062	Infrared sensor switch	1
SQ5/SQ6	320307032	Micro switch	2
SA1	320303020	Selection switch	1
SA2	320303020	Selection switch	1
SA3	320303019	Selection switch	1
QS	320304001	Power switch	1
SB3,SB4	320401038	Button	2
SB1,SB2	320401044	Button	2
SB	320402002	Emergency stop	1
	320503002	Ground terminals	1
	320505006	Wire terminal	21
	320505011	Retaining chip	2
KA2;KA3;KA4	320601001	Relay	3
KA1	320601002	Relay	1
	320601011	Relay holder	4
	320601018	Relay feet fixer	8
KT1	320602009	Integrated time relay	1
KT2	320602009	Integrated time relay	1
QF	320801001	Circuit breaker (3.5kW-3Ph)	1
QF1	320803001	Circuit breaker	1
QF2	320803005	Circuit breaker	1
KM	320901011	AC contactor (3.5kW-3Ph/dual)	1
C	321001004	Capacitor	1
VD	321002001	Bridge rectifier	1
HL	321201001	Power indicator	1
FA	321202001	Alarm buzzer	1

Note: The transformer is different for different power supply voltages. Please ask our customer service when ordering spare parts.

15.5. Hydraulic diagram and parts list



1. Oil tank
2. Oil suction filter
3. Motor
4. Gear pump
5. Pressure relief valve
6. Non-return valve
7. Solenoid valve
8. Throttle valve
9. Tank cap
10. 2-position 3-way solenoid valve
11. 2-way ball valve
12. Cylinder connection
13. Slave cylinder of the main lever
14. Master cylinder of the main jack
15. Master cylinder of the wheel-free jack
16. Slave cylinder of the wheel-free jack
17. Auxiliary cylinder of the master cylinder

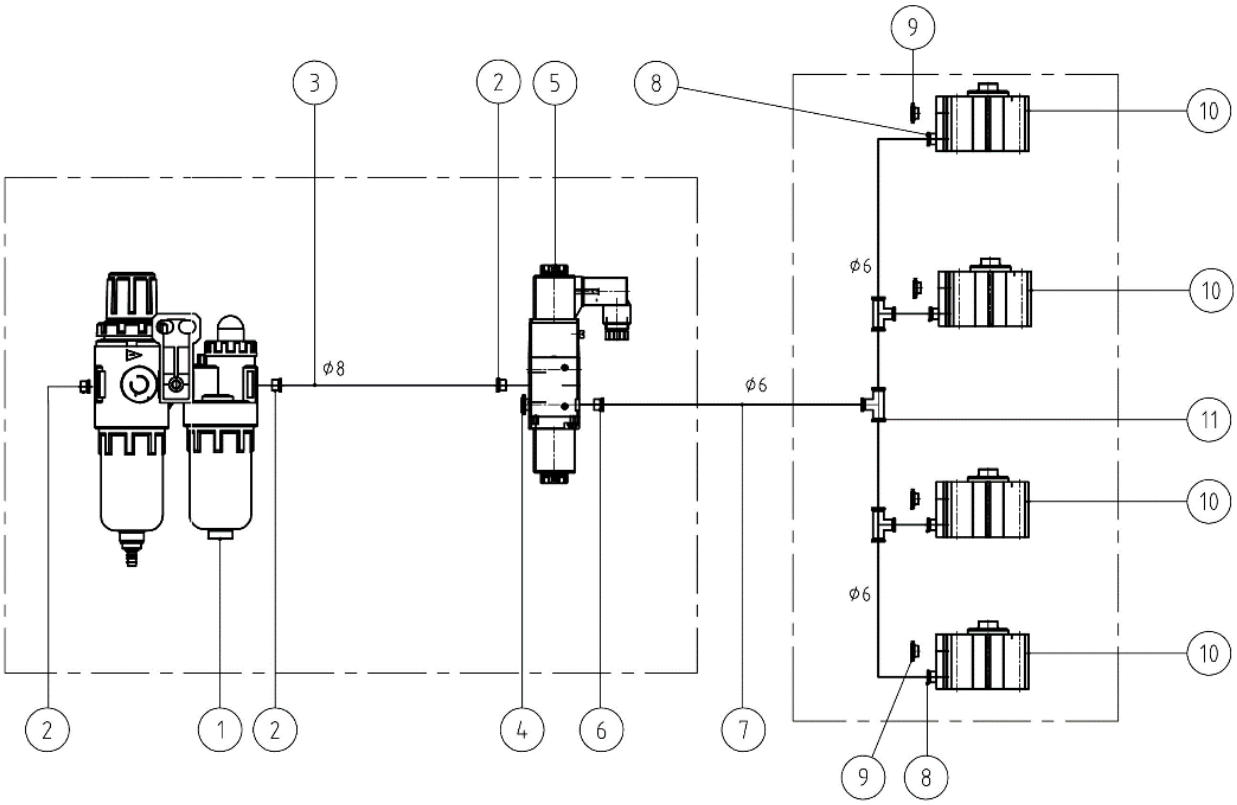


S/N	Code	Name	Specification	Quantity
A1	615025014	Slave cylinder	6604B-A12-B1	1
A2	615025012	Master cylinder	6604B-A11-B1	1
B	615019006	Straight restrictive valve	6501-A4-B15	7
C	615019005	Tube connector B	6501-A4-B16	5
D	410210011	Right-angle connector	6603B-A9-B4	1
E	410210181	3-way connector	6603B-A9-B7	5
F	410250271	4-way connector	6604B-A29	1
G	207103025	Composite washer	13_7X20X1_5	4
H	310101010	Straight connector	G1/4---G1/4	4
J1	625000011	Master cylinder	YG90/102-50-625	2
J2	625000025	Assisting cylinder	YG75-85-45-595	2
J3	625000012	Slave cylinder	YG75/85-45-625	2
K	310102035	Adjustable right-angle connector	EW-G1/4SR-G1/4 I60	1
L	310101079	Transfer connector	M20*2-G1/4	1
1	624001817	RIAT oil hose	L=6650mm	1
2	624001820	RIAT oil hose	L=9200mm	1
3	624001818	RIAT oil hose	L=5400mm	1
4	624001819	RIAT oil hose	L=4270mm	1
5	624001281	Oil hose	L=2250mm	1
6	624002105	Oil hose	L=530mm	1
7	624001260	Oil hose	L=3800mm	1
8	624001281	Oil hose	L=2250mm	1
9	624008216	Oil hose	L=2200mm	1
10	624001845	Oil hose	L=570mm	1
11	624001815	Oil hose	L=1700mm	1

S/N	Code	Name	Specification	Quantity
12	624001248	Oil hose	L=3700mm	1
13	624008217	Oil hose	L=4100mm	1
14	624001248	Oil hose	L=3700mm	1
15	624001248	Oil hose	L=3700mm	1
16	624001260	Oil hose	L=3800mm	1
17	624001045	Oil hose	L=530mm	1
18	624001846	Oil hose	L=600mm	1
19	624008208	Oil hose	L=550mm	1

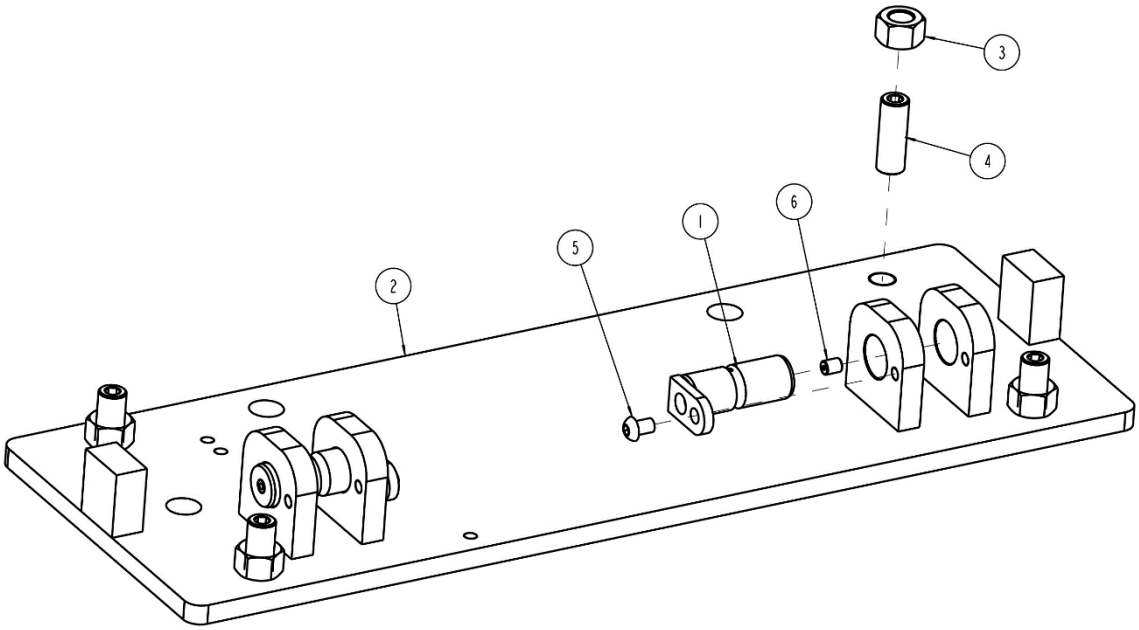
Sealing rings

Cylinder code	Cylinder name	Seal ring code	Name	Specification	Quantity
625000011	Master cylinder of the main lift	207101159	Piston seal ring	90*74.5*6.3	1
		207106108	Support ring	85*90*9.7	2
		207101169	O ring	82.5*3.55	1
		207107038	Stop ring	85.6*91*1.25	1
		207107039	Seal ring	50*60*7	1
		207106089	Support ring	50*55*9.7	2
		207105046	Dust-proof ring	50*58*6	1
625000012	Slave cylinder of the main lift	207101163	Piston seal ring	75*59.5*6.3	1
		207106109	Support ring	70*75*9.7	2
		207101170	O ring JISB2401	69.4*3.1	1
		207107031	Seal ring	45*55*7	1
		207106102	Support ring	45*50*9.7	2
		207105042	Dust-proof ring	DH45*53*6	1
625000025	Assisting cylinder of the main lift	207104010	Type U seal ring	75*67*6.3	1
		207107040	Stop ring	67*75*2	1
		207106109	Support ring	70*75*9.7	1
		207105050	Dirt collecting ring	75*67*6.2	1
		207101170	O ring JISB2401	69.4*3.1	1
		207106102	Support ring	45*50*9.7	2
		207105042	dust-proof ring	DH45*53*6	1
615025012	Master cylinder of the wheel-free jack	207103033	Type Y seal ring	B7-100*85*9	2
		207103023	Type Y seal ring	BS60*70*6	2
		207105009	Dust-proof seal ring	DHS60（60*68*6）	1
615025014	Slave cylinder of the wheel-free jack	207102008	Type Y seal ring	B7-80*65*9	1
		207105008	Dust-proof seal ring	DHS45（45*53*6）	1



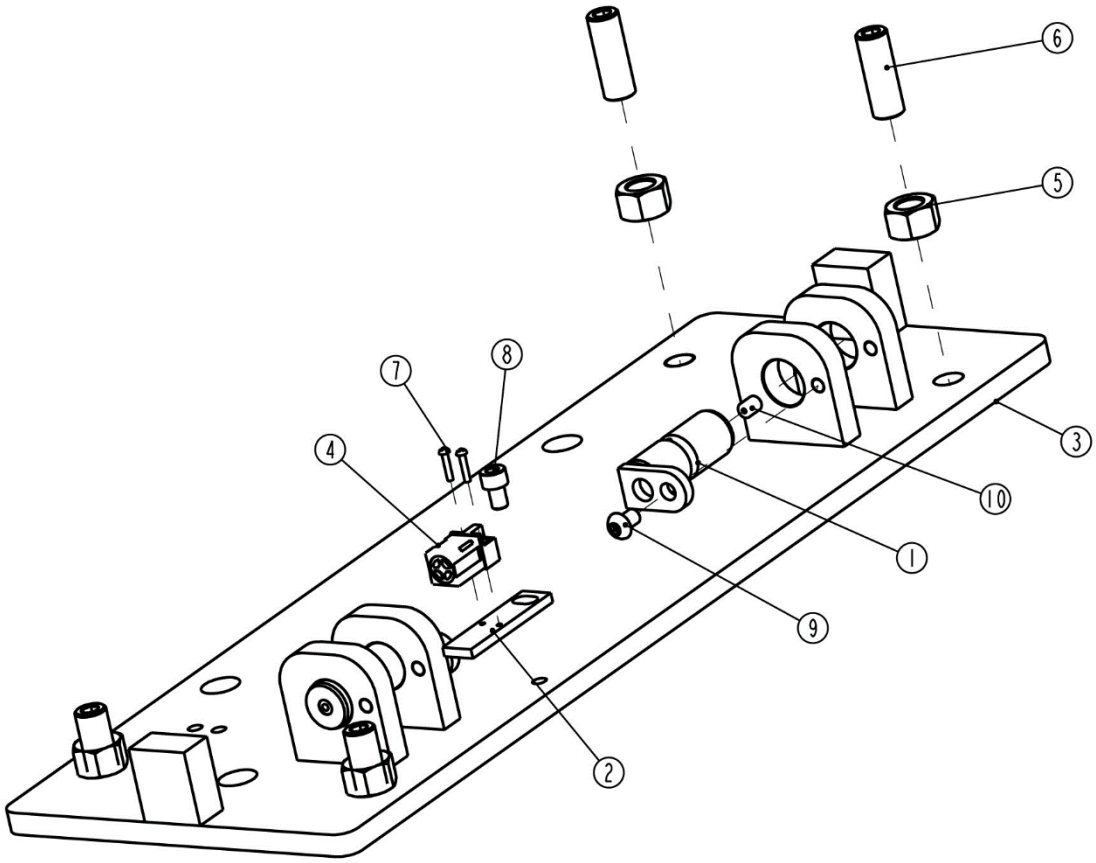
S/N	Code	Name	Specification	Quantity
1	321004006	AFC Air filter combination	AFC2000	1
2	310102015	Quick bending air hose connector	KLL8-02	3
	310302002	Air hose connector (replace 310102015 since 2024.9)	TKN-PH8-02	3
3	123010101	Air hose	D=6	1
4	310201002	Silencer	SLM02 R1/4 (M12)	1
5	310401001	Pneumatic solenoid valve	3V210-08DC24V	1
6	310101015	Quick straight air hose connector	KLC8-02	1
7	123010101	Air hose	D=6 200	1
8	310101024	Quick straight air hose connector	KLC6-01	4
9	310201003	Silencer	SLM01 R1/8 (M8)	4
10	310501005	Pneumatic cylinder	CQ2B32*30	4
11	310103005	Quick three-way air hose connector	KLE-6	3

Base plate A assembly (secondary)

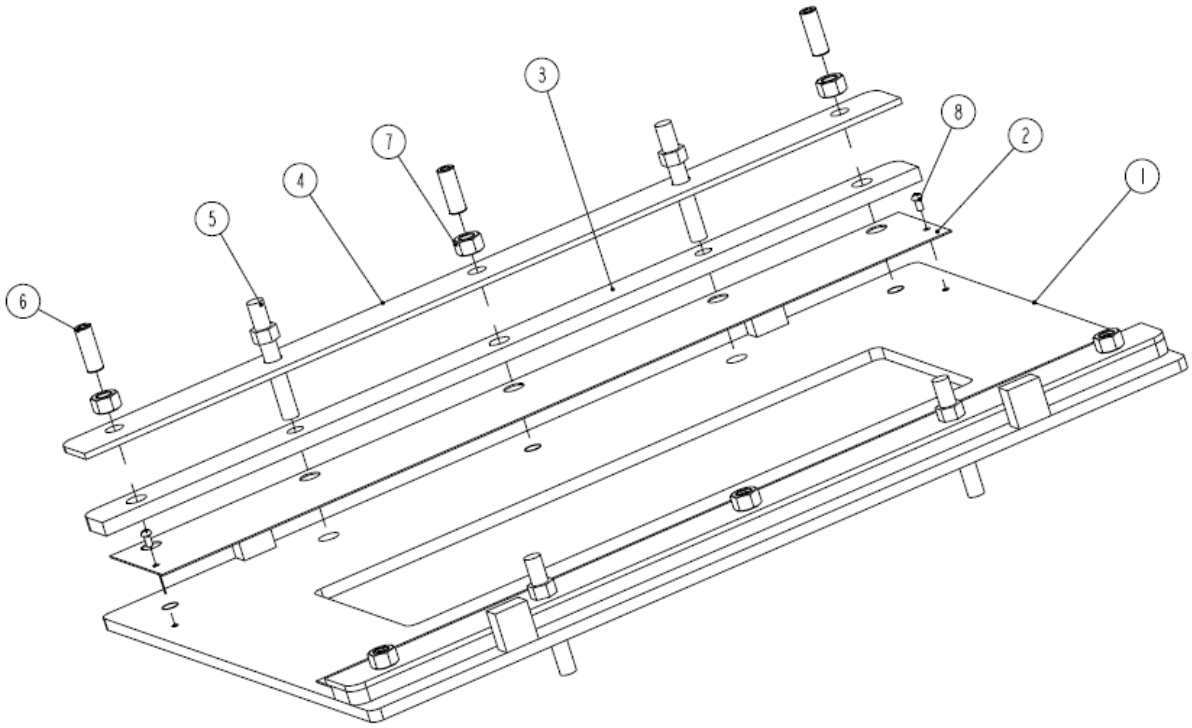


S/N	Code	Name	Specification	Quantity
1	612019504	Shaft of the support holder	65012-A1-B5	2
2	614025056	Base plate A	6604V2-A1-B1	1
3	203101009	Hex nut M16	M16-GB6170	4
4	202205002	Hex socket flat head tapping screw	M16X50-GB77	4
5	202110004	Hex socket cap head screw	M8X12-GB70_2	2
6	208106002	Pressed oil cup M8	M8YP-JB9740_4	2

Base plate A assembly (Main)

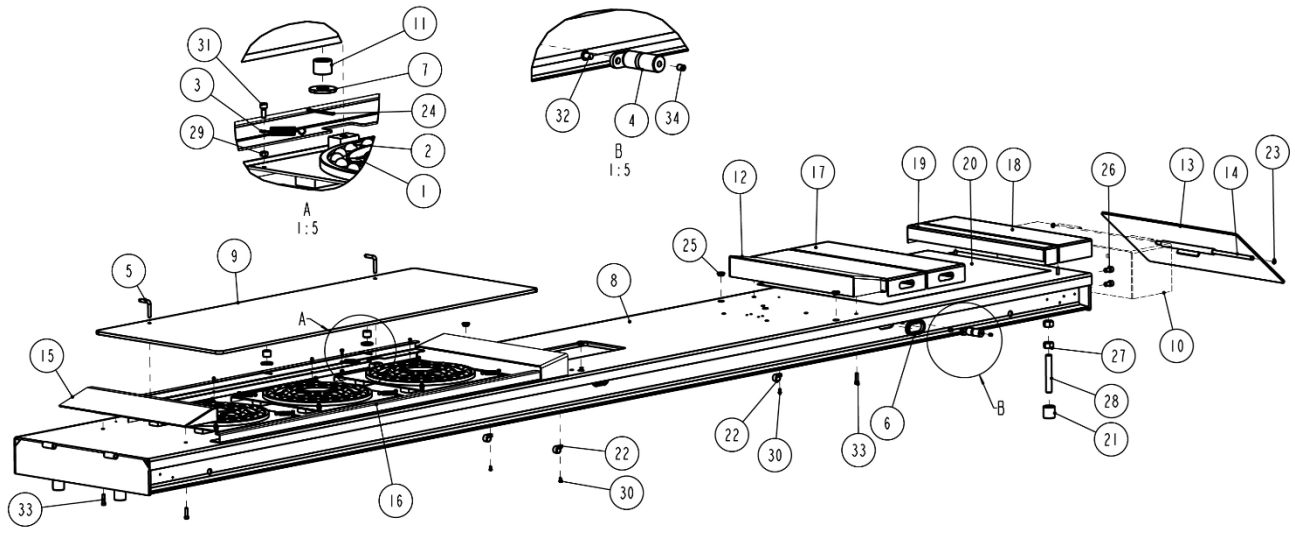


S/N	Code	Name	Specification	Quantity
1	612019504	Shaft of the support holder	65012-A1-B5	2
2	410250013	Plate for down limit switch	6604B-A5-B2	1
3	614025056	Base plate A	6604V2-A1-B1	1
4	320302002	Proximity switch	CJF18-05NA	1
5	203101009	Hex nut M16	M16-GB6170	4
6	202205002	Hex socket flat head tapping screw	M16X50-GB77	4
7	202101002	Cross socket cap head screw	M3X15-GB818	2
8	202109027	Hex socket cylinder head screw	M8X12-GB70_1	1
9	202110004	Hex socket cap head screw	M8X12-GB70_2	2
10	208106002	Pressed oil cup M8	M8YP-JB9740_4	2



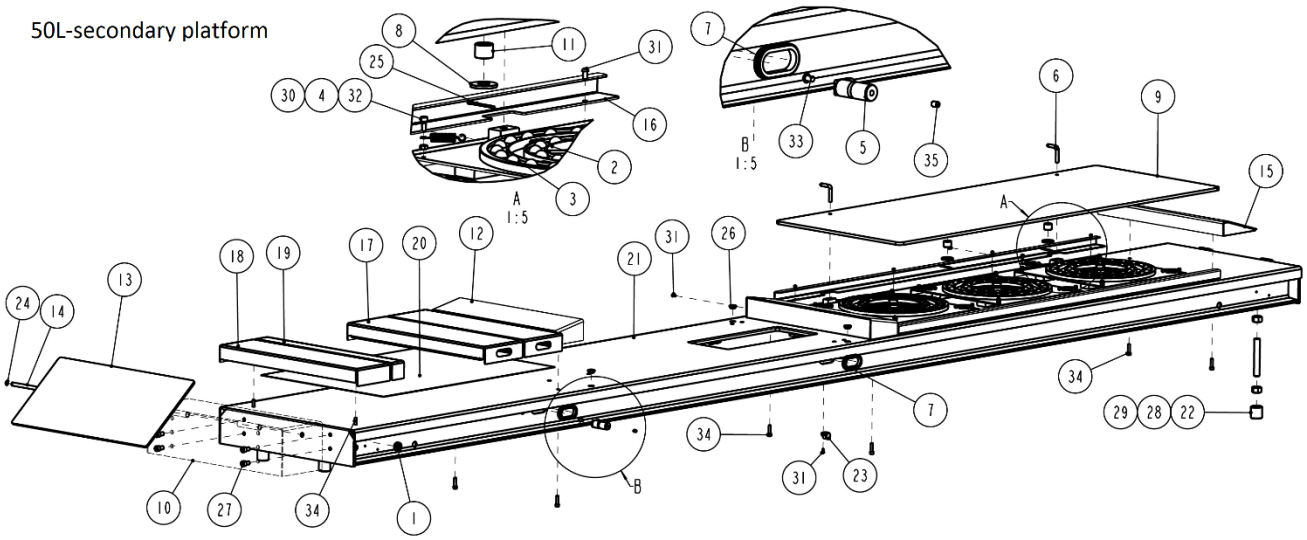
S/N	Code	Name	Specification	Quantity
1	614025058	Large base frame	6604V2-A2-B1	1
2	410253550	Pad plate for slider	6604V2-A2-B2	2
3	410253683B	Pressure plate for Base B	6604V2-A2-B3	2
4	410255153	Anti-roll plate for Base B	6604V2-A2-B4	2
5	201201005	Expansion bolt	M16X120	4
6	202205002	Hex socket flat head tapping screw	M16X50-GB77	6
7	203101009	Hex nut	M16_GB6170	6
8	202101029	Cross socket cap head screw	M6X12-GB818	4

50L-main platform

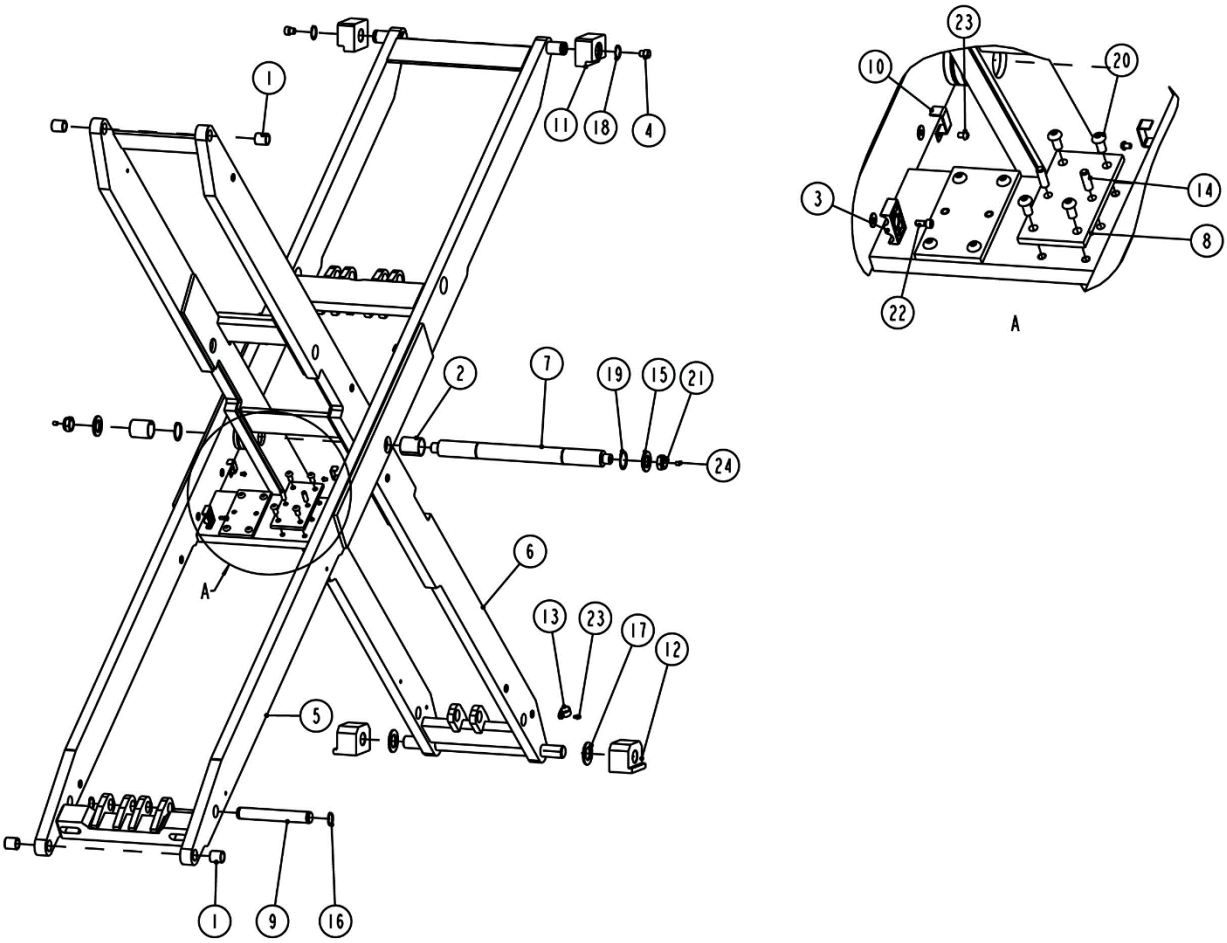


S/N	Code	Name	Specification	Quantity
1	420270100B	Ball holder	6435B-A4-B20	3
2	420270110	Ball	6435B-A4-B21	120
3	410274481	Pull spring	6435B-A4-B31	12
4	612019504	Shaft	65012-A1-B5	2
5	410250221B	Bolt	6604B-A16	2
6	420250050B	Protective sheath	6604B-A17	4
7	410250011	Washer	6604B-A1-B5	2
8	614025061C	Main platform	6604V2-A4-B1	1
9	614025062B	Slip plate	6604V2-A4-B2	1
10	614025063	Box	6604V2-A4-B3	1
11	420250010	Nylon sheath	6604V2-A4-B5	2
12	614025071	Mid ramp	6604V2-A4-B7	2
13	614025066B	Small ramp	6604V2-A4-B10	1
14	410250211	Ramp shaft	6604V2-A4-B12	1
15	614025067B	Slope plate	6604V2-A4-B13	1
16	410901756	Decorative plate	6604V2-A4-B20	2
17	410902033	Box (200mm)	6604V2-A4-B21	2
18	614901380	Fixed Box (175mm)	6604V2-A4-B22	1
19	614901381	Box (70mm)	6604V2-A4-B23	1
20	420680084	Magnetic rubber pad	6604V2-A4-B24	1
21	420260010	Adjustable nylon slider	6605B-A1-B8	4
22	208101036	Clip	D20	3
23	204301002	Circlip	D12-GB894_1	2
24	206201004	Cotter pin	D3X45-GB91	2
25	420680068	Rubber pad	DC-20	4
26	202109050	Hex socket cylinder head screw	M12X20-GB70_1	4
27	203101012	Hex nut	M20-GB6170	8
28	202205005	Hex socket flat head tightening screw	M20X140-GB77	4
29	203101004	Hex nut	M6-GB6170	12
30	202110003	Hex socket button head screw	M6X12-GB70_2	13
31	202109020	Hex nut M6	M6X15-GB70_1	12
32	202110004	Hex socket button head screw	M8X12-GB70_2	2
33	202109031	Hex socket cylinder head screw	M8X30-GB70_1	8
34	208106002	Pressed oil cup M8	M8YP-JB9740_4	2

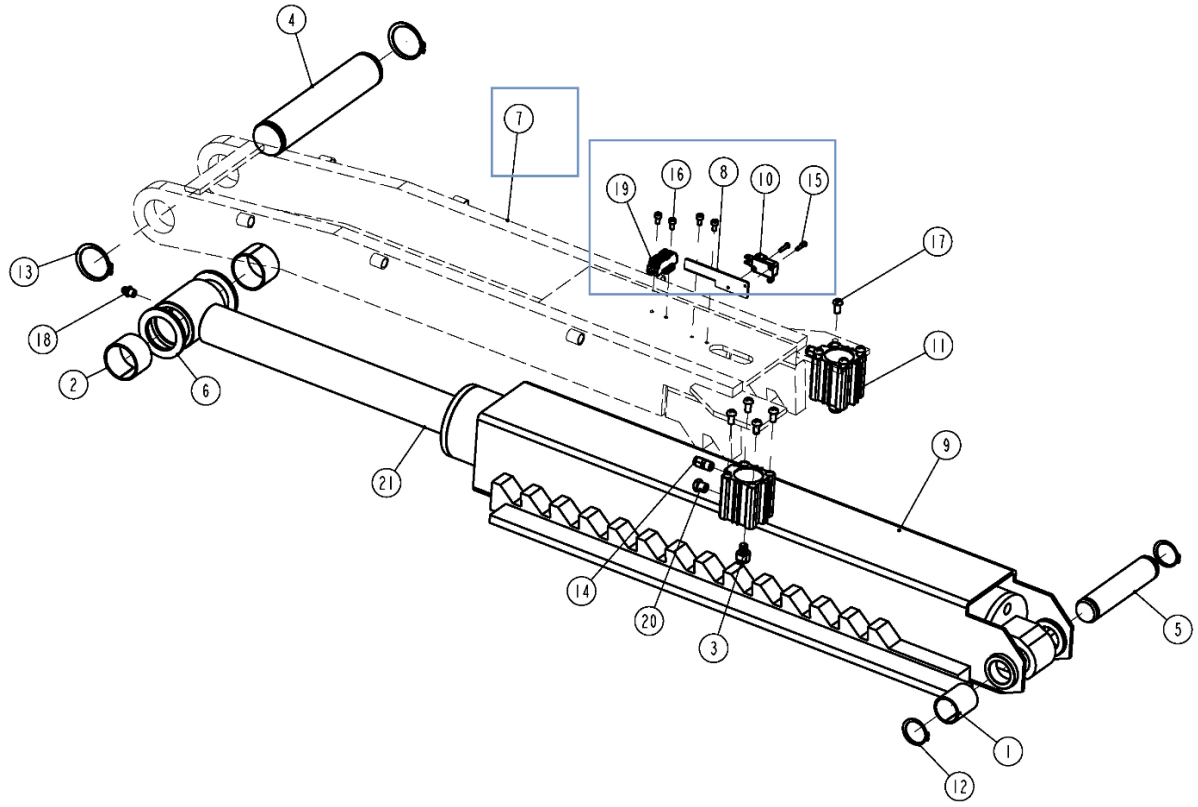
50L-secondary platform



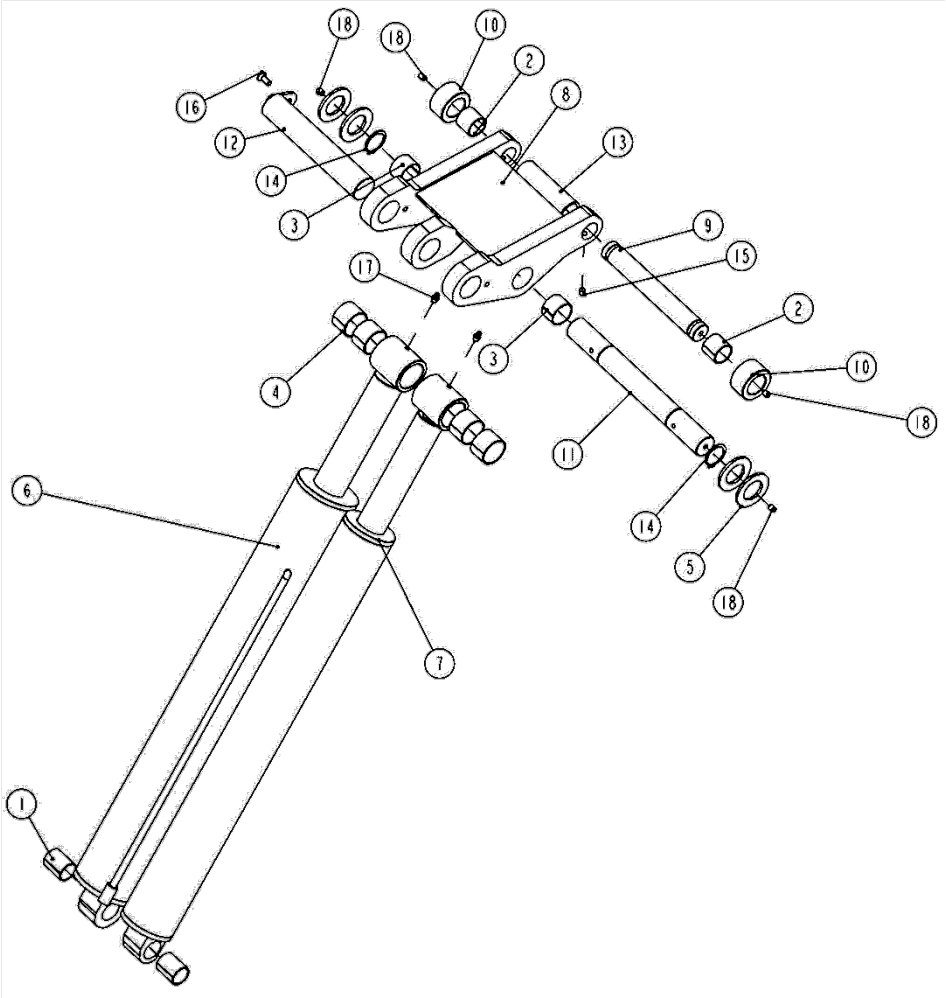
S/N	Code	Name	Specification	Quantity
1	420040020	Protective ring D20	6254E-A22	1
2	420270100B	Ball holder	6435B-A4-B20	3
3	420270110	Ball	6435B-A4-B21	120
4	410274481	Pull spring	6435B-A4-B31	12
5	612019504	Shaft	65012-A1-B5	2
6	410250221B	Bolt	6604B-A16	2
7	420250050B	Protective sheath	6604B-A17	2
8	410250011	Washer	6604B-A1-B5	2
9	614025062B	Slip plate	6604V2-A4-B2	1
10	614025063	Box	6604V2-A4-B3	1
11	420250010	Nylon sheath	6604V2-A4-B5	2
12	614025071	Mid ramp	6604V2-A4-B7	2
13	614025066B	Small ramp	6604V2-A4-B10	1
14	410250211	Ramp shaft	6604V2-A4-B12	1
15	614025067B	Slope plate	6604V2-A4-B13	1
16	410901756	Decorative plate	6604V2-A4-B20	2
17	410902033	Box (200mm)	6604V2-A4-B21	2
18	614901380	Fixed Box (175mm)	6604V2-A4-B22	1
19	614901381	Box (70mm)	6604V2-A4-B23	1
20	420680084	Magnetic rubber pad	6604V2-A4-B24	1
21	614025308B	Secondary platform	6604V2-A4B-B1	1
22	420260010	Adjustable nylon slider	6605B-A1-B8	4
23	208101036	Clip	D20	1
24	204301002	Circlip	D12-GB894_1	2
25	206201004	Cotter pin	D3X45-GB91	2
26	420680068	Rubber pad	DC-20	4
27	202109050	Hex socket cylinder head screw	M12X20-GB70_1	4
28	203101012	Hex nut	M20-GB6170	8
29	202205005	Hex socket flat head tightening screw	M20X140-GB77	4
30	203101004	Hex nut	M6-GB6170	12
31	202110003	Hex socket button head screw	M6X12-GB70_2	11
32	202109020	Hex nut M6	M6X15-GB70_1	12
33	202110004	Hex socket button head screw	M8X12-GB70_2	2
34	202109031	Hex socket cylinder head screw	M8X30-GB70_1	8
35	208106002	Pressed oil cup M8	M8YP-JB9740_4	2



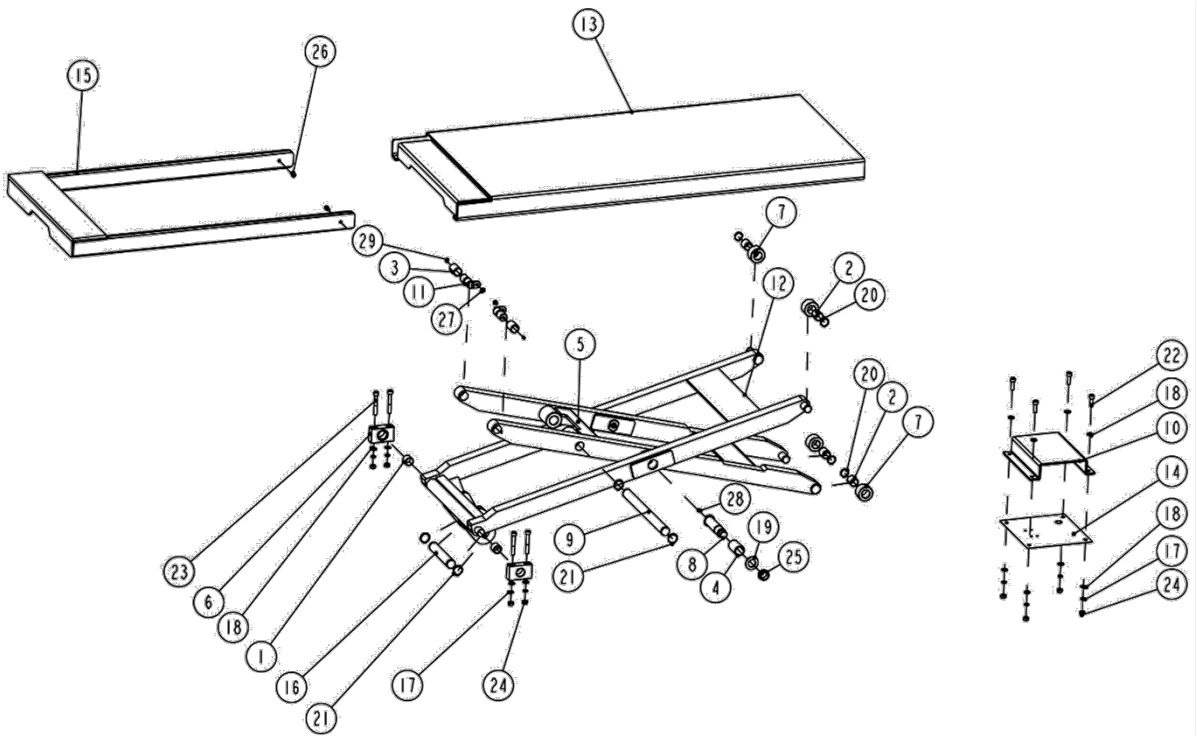
S/N	Code	Name	Specification	Quantity
1	205101052	Bearing	2530-SF-2X	4
2	205101060	Bearing	4050-SF-2X	2
3	420270070	Oil hose protective sheath	6435B-A3-B27	2
4	420210060B	Padding block	6603B-A5-B6	2
5	614025059B	Outside support arm	6604V2-A3-B1	1
6	614025060	Inside support arm	6604V2-A3-B2	1
7	410252281	Mid shaft of support bracket	6604V2-A3-B3	1
8	410250061	Rotor wheel pad	6604V2-A3-B4	2
9	410252321	DOWN cylinder shaft	6604V2-A3-B6	1
10	410254631	Clip	6604V2-A3-B8	2
11	420260020B	Platform slider	6605B-A6-B1-C2	2
12	420260030B	Base slider	6605B-A6-B2-C2	2
13	208101036	Clip	D20	1
14	206101008	Post pin	D10X30-GB119_2	4
15	204101014	Flat washer C	D27-GB95	2
16	204301010	Circlip	D28-GB894_2	2
17	204101015	Flat washer C	D30-GB95	6
18	204301011	Circlip	D30-GB894_2	2
19	204301014	Circlip	D40-GB894_2	2
20	202110007	Hex socket button head screw	M10X20-GB70_2	8
21	203103018	Hex locking nut	M24X3-GB6172_2	2
22	202109020	Hex socket cylinder head screw	M6X15-GB70_1	2
23	202101027	Cross socket cap head screw	M6X8-GB818	3
24	208106002	Pressed oil cup M8	M8YP-JB9740_4	2



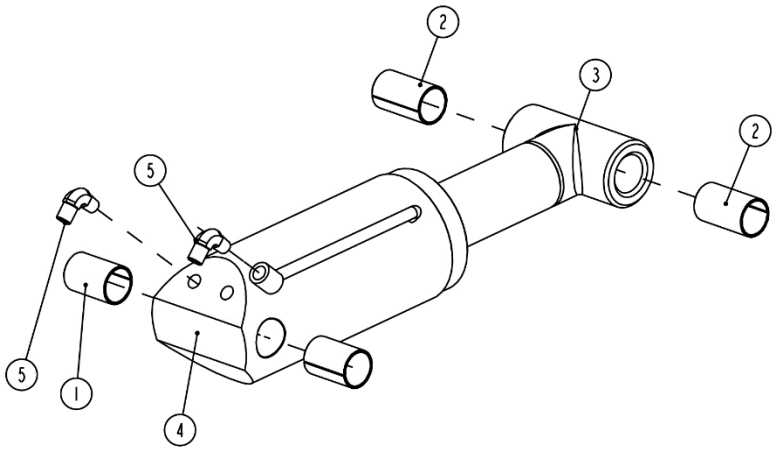
S/N	Code	Name	Specification	Quantity
1	205101053	Bearing	2840-SF-2X	1
2	205101034	Bearing	4030-SF-2X	2
3	420210020	Hex socket button head screw	6603B-A3-B9	2
4	410252381B	Upside shaft of the assisting cylinder	6604V2-A5-B4	1
5	410252391B	Downside shaft of the assisting cylinder	6604V2-A5-B5	1
6	410901931	Adjustable washer	6604V2-A5-B6	6
7	614901929	Mechanical locking ratchet	6604V2-A5-B7	1
8	410912332	Holder for the Micro switch	6604V2-A5-B8	1
9	614025070	Oil cylinder sheath	6604V2-A5B-B2	1
10	320307032	Micro switch	CMV10041C2	1
11	310501005	Air cylinder	CQ2B32X30D	2
12	204301010	Circlip	D28-GB894_2	2
13	204301014	Circlip	D40-GB894_2	2
14	310101024	Pneumatic straight connector	KLC6-01	2
15	202101002	Cross socket cap head screw	M3X15-GB818	2
16	202109006	Hex socket cylinder head screw	M4X8-GB70_1	4
17	202101033	Cross socket cap head screw	M6X20-GB818	8
18	208106001	Oil cup	M8X1-JB9740_1	1
19	320505041	Fast connecting terminal	PCT-223-2	1
20	310201003	Silencer	SLM01-R1-8	2
21	625000025	Assisting cylinder	YG75-85-45-595	1



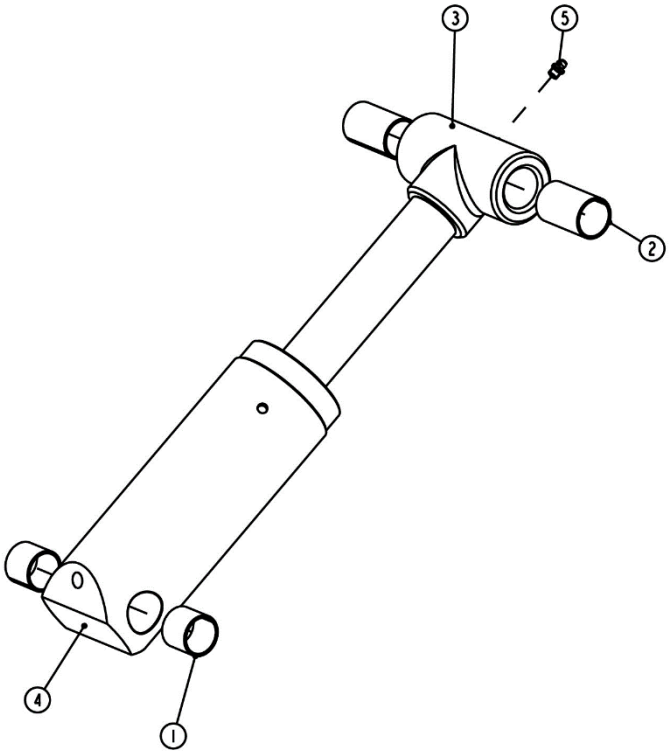
S/N	Code	Name	Specification	Quantity
1	205101053	Bearing	2840-SF-2X	2
2	205101054	Bearing	3030_SF-2X	2
3	205101026	Bearing	3525_SF-2X	2
4	205101034	Bearing	4030_SF-2X	4
5	410200111	Spacer	6503-A3-B4	4
6	625000011	Master cylinder	YG90/102-50-625	1
7	625000012	Slave cylinder	YG75/85-45-625	1
8	614025045	Start plate	6604V2-A6-B1	1
9	410252401	Wheel shaft of start plate	6604V2-A6-B2	1
10	410250231	Start rotor wheel	6604V2-A6-B3	2
11	410252411	Mid shaft of start plate	6604V2-A6-B4	1
12	614025081	UP shaft of oil cylinder	6604V2-A6-B5	1
13	410252430	Spacer	6604V2-A6-B6	1
14	204301012	Circlip	D35-GB894_1	2
15	202206007	Hex socket tapping screw M8*12	M8X12-GB78	2
16	202111007	Hex socket flat head screw M8*20	M8X20_GB70_3	1
17	208106001	Oil cup	M8YB_GB9740_1	2
18	208106002	Pressed oil cup M8	M8YP_GB7940_4	4



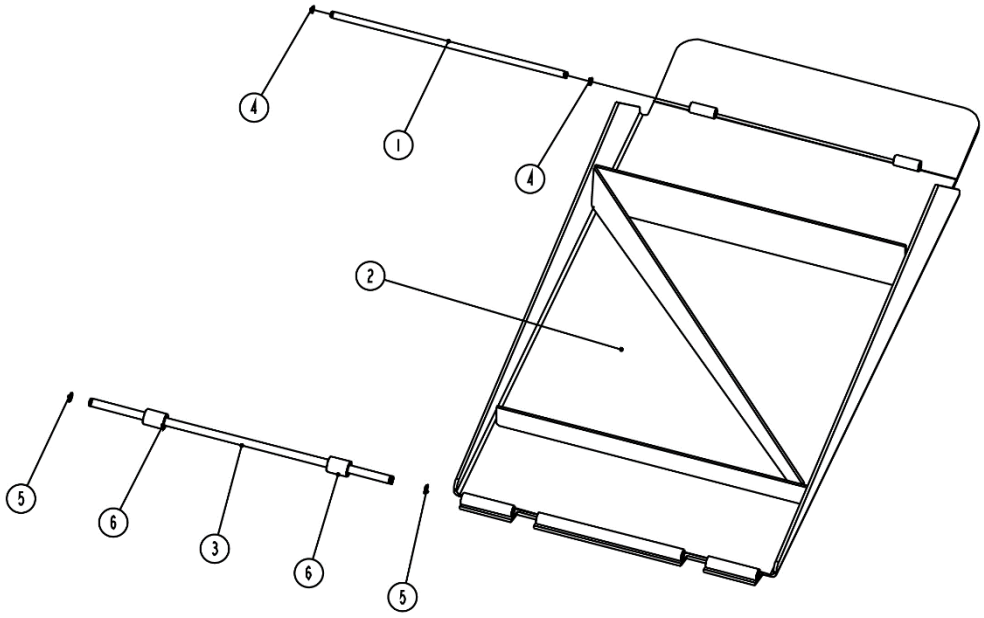
S/N	Code	Name	Specification	Quantity
1	205103003	Flange bearing	2525_SF-1X	2
2	205101012	Bearing	2530_SF-1X	4
3	205101094	Bearing	2540_SF-2X	2
4	205101025	Bearing	3058_SF-2X	2
5	614027270B	Inside connection rod of the secondary lift	6435BWF-C05	1
6	410276701	DOWN holder of secondary lift	6435BWF-C03-20	2
7	410276711B	UP and DOWN wheel	6435BWF-C03-21	4
8	410276721C	Middle shaft	6435BWF-C03-22	2
9	410276731	Piston shaft	6435BWF-C03-23	1
10	410276813	Limit switch plate of secondary lift	6435BWF-C11-1	1
11	612019504	Bracket holder shaft	65012-A1-B5	2
12	614025046B	Outside bracket of the secondary lift	6604V2-A7-B1	1
13	614025048	Platform of the secondary arm	6604V2-A7-B3	1
14	410254430C	Anti-abrasive plate	6604V2-A7-B4	1
15	614025050	Extension platform	6604V2-A7-B5	1
16	410254541	DOWN shaft of the secondary lift	6604V2-A7-B7	1
17	204201005	Spring washer	D10_GB93	8
18	204101006	Flat washer	D10_GB95	12
19	204101012	Flat washer	D24-GB95	2
20	204301009	Circlip	D25-GB894_1	4
21	204301011	Circlip	D30-GB894_1	4
22	202109043	Hex socket cylinder head screw	M10X30_GB70	4
23	202109080	Hex socket cylinder head screw	M10X70_GB70	4
24	203101006	Hex nut	M10_GB6170	8
25	203103018	Hex locking nut	M24ZS	2
26	202109027	Hex socket button head screw	M8X12-GB70	2
27	202110004	Hex socket cap head screw	M8X12_GB70_2	2
28	208106001	Straight pressed oil cup	M8X1_GB7940_1	2
29	208106002	Pressed oil cup M8	M8YP_GB7940_4	2



S/N	Code	Name	Specification	Quantity
1	205101023	Bearing	3050_SF-1X	2
2	205101025	Bearing	3058_SF-2X	2
3	410212090	Three way oil cylinder connector (small)	6603B-A3-B8	1
4	615025012	Drive cylinder of the jack	6604V2-A8-B1	1
5	208106001	Oil cup	M8YB_GB9740_1	2



S/N	Code	Name	Specification	Quantity
1	205101055	Bearing	3040_SF-2X	2
2	205101025	Bearing	3058_SF-2X	2
3	410212090	Three way oil cylinder connector (small)	6603B-A3-B8	1
4	615025014	Slave cylinder of the jack	6604B-A12-B1	1
5	208106001	Oil cup	M8YB_GB9740_1	1



S/N	Code	Name	Specification	Quantity
1	410250211	Ramp shaft	6604V2-A4-B12	1
2	614025055B	Ramp	6604V2-A9-B1	1
3	410250161	Ramp wheel shaft of the JACK	6604V2-A9-B2	1
4	204301002	Circlip	D12_GB894_2	2
5	204301012	Circlip	D15_GB894_1	2
6	420180010	Small wheel	MR30-A22-B5	2

We have made every effort to provide you with complete and detailed information to ensure that installation and operation run smoothly. However, if you encounter any problems during the installation and operation of your post lift or have any questions about individual parts, please contact the expert staff at TWIN BUSCH® GmbH.

Notes

Notes

EC-declaration of conformity

The company

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

hereby declares that the **scissor vehicle lift**

TWSA-40 | 4000 kg
(EE-6604x)

Serial number:

in these configurations we have placed on the marked complies with the relevant essential health and safety requirements of the following EC-directive(s) in its/their current version(s).

EC-directive(s)

2006/42/EC	**Machinery**

Applied harmonized standards and regulations

EN 1493:2010	**Vehicle Lifts**
EN 60204-1:2008	**Safety of machinery**

CE Certificate

MDC306 Issue 1

date of issue: 11.04.2022
place of issue: Helsinki
technical file no.: SHES210901784801-01/02/03

Certification body

SGS Fimko Ltd,
Takomotie 8,
FI-00380 Helsinki
Notified Body Appointment No.: 0598

In the case of improper use, as well as in the case of assembling, modification or changes which are not agreed with us, this declaration will lose its validity.

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, 12.04.2022 Qualitätsmanagement

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