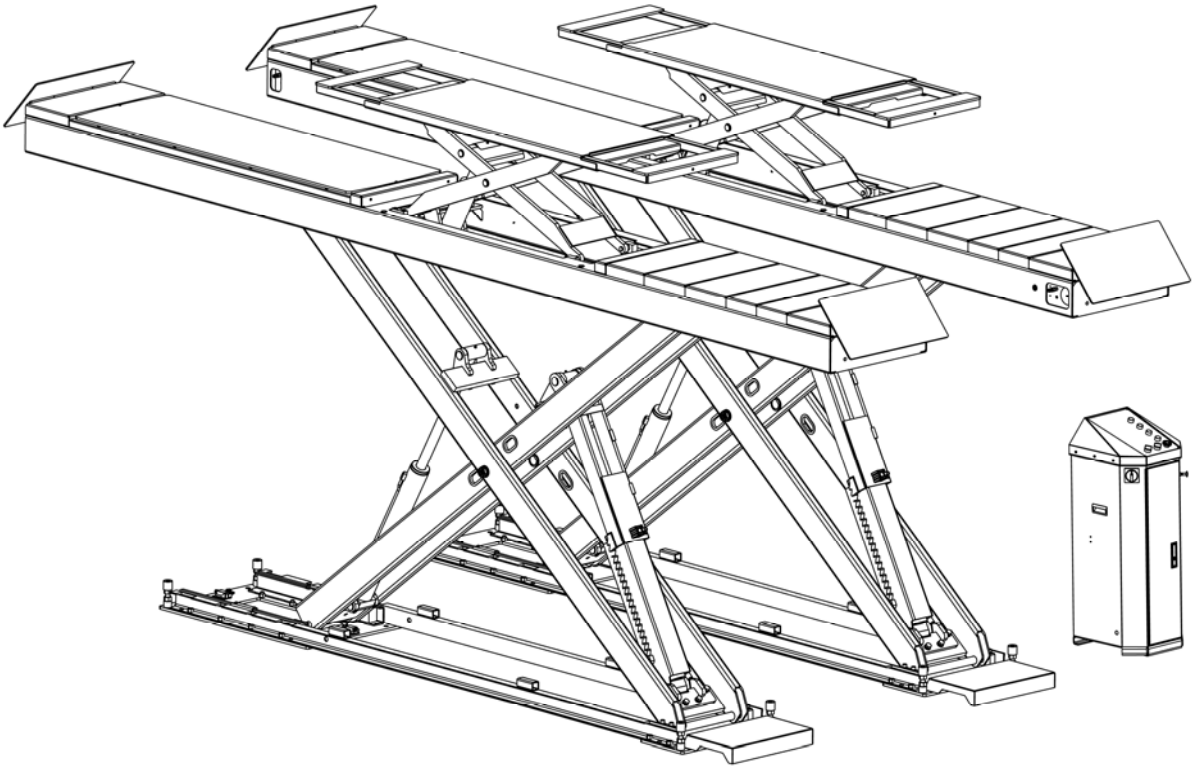
Model No. EE-DX50BWF

Long platform scissor lift
Pneumatic controlled slip plate
Lifting capacity 5000kg

Installation, Operation And Parts Manual



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Please read this entire manual carefully and completely before installation or operation of the lift.

DATE: 09/03/2026

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IMPORTANT NOTES

Before start up, connecting and operating EAE products, it is absolutely essential that the operating instructions/owner's manual and, in particular the safety instructions are studied carefully. By doing so you can eliminate any uncertainties in handling EAE products and thus associated safety risks up front; something which is in the interest of you own safety and will ultimately help avoid damage to the device, When an EAE product is handed over to another person, not only the operating instructions but also the safety instructions and information on its designated use must be handed over to the person.

By using the product you agree the following conditions:

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The use of non-approved hardware will result in a modification of our products and thus to the exclusion of any liability or warranty, even if such hardware has been removed again in the interim.

It is not permissible to make any changes to our products and these are not only to be used together with genuine accessories and genuine replacement parts. Otherwise any warranty claims will be invalid.

Liability

The liability of EAE is limit to the amount that the customer has actually paid for this product. This exclusion of liability does not apply to damages caused through willful misconduct or gross negligence on the part of EAE.

All information in this manual is believed to be correct at time of publication.
EAE reserves the right to amend and alter technical data and composition without prior notice.
Please confirm at time of ordering.

IMPORTANT NOTES 2
SAFETY NOTES 4
1.1 Operation of lifting platforms 4
1.2 Checking of the lifting platforms 4
1.3 Important safety notices 5
1.4 Warning labels 6
1.5 Potential safety risks 7
1.6 Noise level 7
PACKING, STORAGE AND TRANSPORTATION 8
2.1 Transport sections 8
2.2 Storage and Transport 8
PRODUCT DESCRIPTIONS 9
3.1 General descriptions 9
3.2 Construction of the lift 9
3.3 Dimensions 10
3.4 Safety device descriptions 12
3.5 Technical data 13
INSTALLATION INSTRUCTIONS 14
4.1 Preparations before installation 14
4.2 Checking parts 16
4.3 General installation steps 16
4.4 Items to be checked after installation. 28
OPERATION INSTRUCTIONS 29
5.1 Descriptions of control panel 29
5.2 Safety guide 30
5.3 Lifting and lowering procedures 31
TROUBLE SHOOTING 33
MAINTENANCE 36
Annex 1, Floor plan 40
Annex 2, Electrical schemes and parts list 42
Annex 3, Hydraulic schemes and parts list 49
Annex 4, Pneumatic schemes and parts list 54
Annex 5, Exploded drawings and parts list for the mechanical parts 55

SAFETY NOTES

1.1 Operation of lifting platforms

This lift is designed to raise vehicles totally, for the purpose of examining and working on or under the vehicles whilst in a raised position. Users are not allowed to use it for any other purposes. The applicable national regulations, laws and directives must be observed.

Only adults (18+) who have been properly trained and have demonstrated they can use the lift correctly are allowed to operate it without supervision. The task of operating the lifting platforms must be granted in writing.

Prior to lifting any vehicle, the operator is required to be familiar with the manufacturer's manual and conduct several unloaded trial runs to confirm understanding of all controls and procedures.

1.2 Checking of the lifting platforms

Checks are to be based on the following directives and regulations:

- Basic principles for testing lifting platforms
- The basic safety requirements stipulated in the directive 2006/42/EC
- Harmonized European standards
- The applicable accident prevention regulations

The checks are to be organized by the user of the lifting platform. The user is responsible for appointing an expert or qualified person to perform checking.

The user bears special responsibility if employees of the company are appointed as experts or qualified persons.

1.2.1 Scope of checking

Regular checking essentially involves performing a visual inspection and a functional test. This includes checking the condition of the components and equipment, checking that the safety systems are complete and functioning properly and that the inspection log book is completely filled in. The scope of exceptional checking depends on the nature and extent of any structural modification or repair work.

1.2.2 Regular checking

After initial commissioning, lifting platforms are to be checked by a qualified person at intervals of not longer than one year.

A qualified person is somebody with the training and experience required to possess sufficient knowledge of lifting platforms and who is sufficiently familiar with the pertinent national regulations, accident prevention regulations and generally acknowledged rules of engineering to be able to assess the safe operating condition of lifting platforms.

1.2.3 Exceptional checking

Lifting platforms with a lift height of more than 2 meters and lifting platforms intended for use with people standing under the load bearing elements of the load are to be checked by an expert prior or reuse following structural modifications and major repairs to load bearing components.

An expert is somebody with the training and experience required to possess specialist knowledge of lifting platforms and who is sufficiently familiar with the pertinent national work safety regulations, accident prevention regulations and generally acknowledged rules of engineering to be able to check and give an expert option on lifting platforms.

1.3 Important safety notices

Read and fully understand all instructions in this manual before performing any work on the lift.

Recommend for indoor use only. DO not expose the lift to rain, snow or excessive moisture.

Only use this lift on a surface that is stable, level and dry and not slippery, and capable of sustaining the load. Do not install the lift on any asphalt surface.

Only professionally trained personnel are permitted to operate and use the lift. All others must keep clear of the operation area.

This lift is intended only for lifting vehicles totally within its specified weight limit.

Do not leave the controls while the lift is still in motion.

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

Do not wear unfit clothes such as large clothes with flounces, tires, etc., which could be caught by moving parts of the lift.

The area surrounding the lift must be kept clean, tidy, and free of obstructions at all times.

Always confirm safety locks are fully engaged before working near or under the vehicle. Never remove safety related components from the lift. Do not use if safety related components are damaged or missing.

Do not rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift. Use additional supports when necessary.

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.

After completing all work, lower the lift completely and switch off the main power.

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

If the lift will be unused for an extended period, perform the following steps:
a. Disconnect and lock out the main power supply;
b. Empty the oil tank;
c. Lubricate the moving parts with grease.

WARNING：The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Used hydraulic oil must be collected and disposed of according to all local environmental regulations.

1.4 Warning labels

The lift is equipped with safety labels to identify hazards associated with incorrect operation. These labels must be maintained in a clean and legible condition. Damaged or missing labels must be replaced immediately. All operators are required to read and understand the meaning of each label before use.

1.5 Potential safety risks

1.5.1 Mains voltage

 Insulation damage and other faults may result in accessible components being live

Safety measures:

- Only ever use the power cord provided or a tested power cord.
- Replace wires with damaged insulation.
- Do not open the control cabinet.

1.5.2 Risk of injury, danger of crushing

 In the event of excessive vehicle weight, incorrect mounting of the vehicle or on removing heavy object, there is a risk of the vehicle falling off the lifting platform or tipping up.

Safety measures:

- The lifting platform is only ever to be employed for the intended purpose.
- Carefully study and heed all the information given in Section 1.4.
- Observe the warning notices for operation.

1.6 Noise level

The noise pressure level during the operation of this lift should be below 75 dB (A).
For hearing protection, it is recommended to install a noise level meter in the vicinity of the equipment.

PACKING, STORAGE AND TRANSPORTATION

Packing, lifting, handling, transporting operations must be performed only by experienced personnel with appropriate knowledge of the lift and after reading this manual.

2.1 Transport sections

Name	Dimension(mm)	Weight(kg)	Packed by
Platform 1	5700x660x470	Aprrox.1450	Support tube + Carton
Platform 2	5700x660x470	Aprrox.1450	Support tube + Carton
Control cabinet	484x462x1114	Aprrox.85	Wooden case

2.2 Storage and Transport

The packs must be kept in a covered and protected area in a temperature range of -10℃ to +40℃. They must not be exposed to direct sunlight, rain or water.

Stacking

Due to the significant overall weight of the equipment and its relatively narrow packaging base, stacking for storage or transport poses safety risks. If stacking is unavoidable, the following precautions are mandatory:

Stack height must not exceed 2 meters.

Secure the stack using ropes or other suitable methods after completion.

Lifting and handling

The packs can be lifted and transported by forklifts.

Note the designated fork pocket positions marked on the external packaging.

Packs must be opened adopting all the precautions required to avoid injury to persons (keep at a safe distance when cutting the straps) or damage to parts of the machine (be careful that no parts are dropped while you are opening the packing)

WARNING!

Do not place objects with a small base and excessive weight on the lift platform. Doing so creates a risk of stress concentration, which can lead to platform deformation or damage

PRODUCT DESCRIPTIONS

3.1 General descriptions

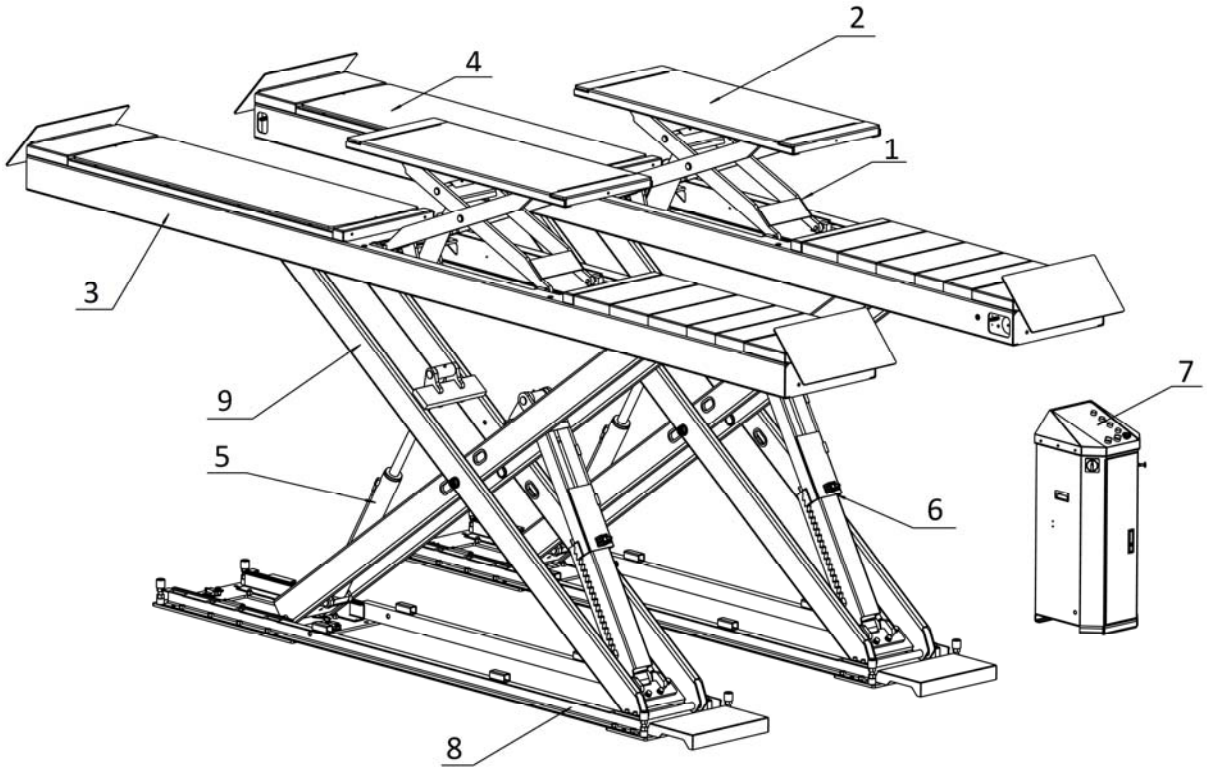
This wheel-support lift is ideally suited for flush-mounted installation. With a 5,000 kg capacity, it accommodates vehicles from compact cars to heavy MPVs, SUVs, pickups, and RVs. The wheel support platform is available in 5300mm or 4800mm lengths to suit different workshop spaces and vehicle dimensions.

Designed for wheel alignment, the platform features slip plates with pneumatic rear locking and adjustable turntable positions for both long and short wheelbase vehicles. A 3,500 kg wheel-free lift configuration includes an extendable platform (1525-2200mm) to fit short and long-wheelbase vehicles.

An opposed front/rear cylinder structure ensures precise leveling for accurate alignment. The four-cylinder system offers one-button automatic leveling for simple, efficient operation. Technicians benefit from one-touch pneumatic locking slip plate and quick-connect air couplings for tools and tire inflation. Four magnetic LED lamps provide bright under-vehicle lighting.

Safety is ensured through multiple systems: a photoelectric sensor prevents non-synchronization; an anti-burst valve guarantees safe descent during leakage; and an emergency stop button immediately disconnect power. A low-position stop with audible alarm signals final travel.

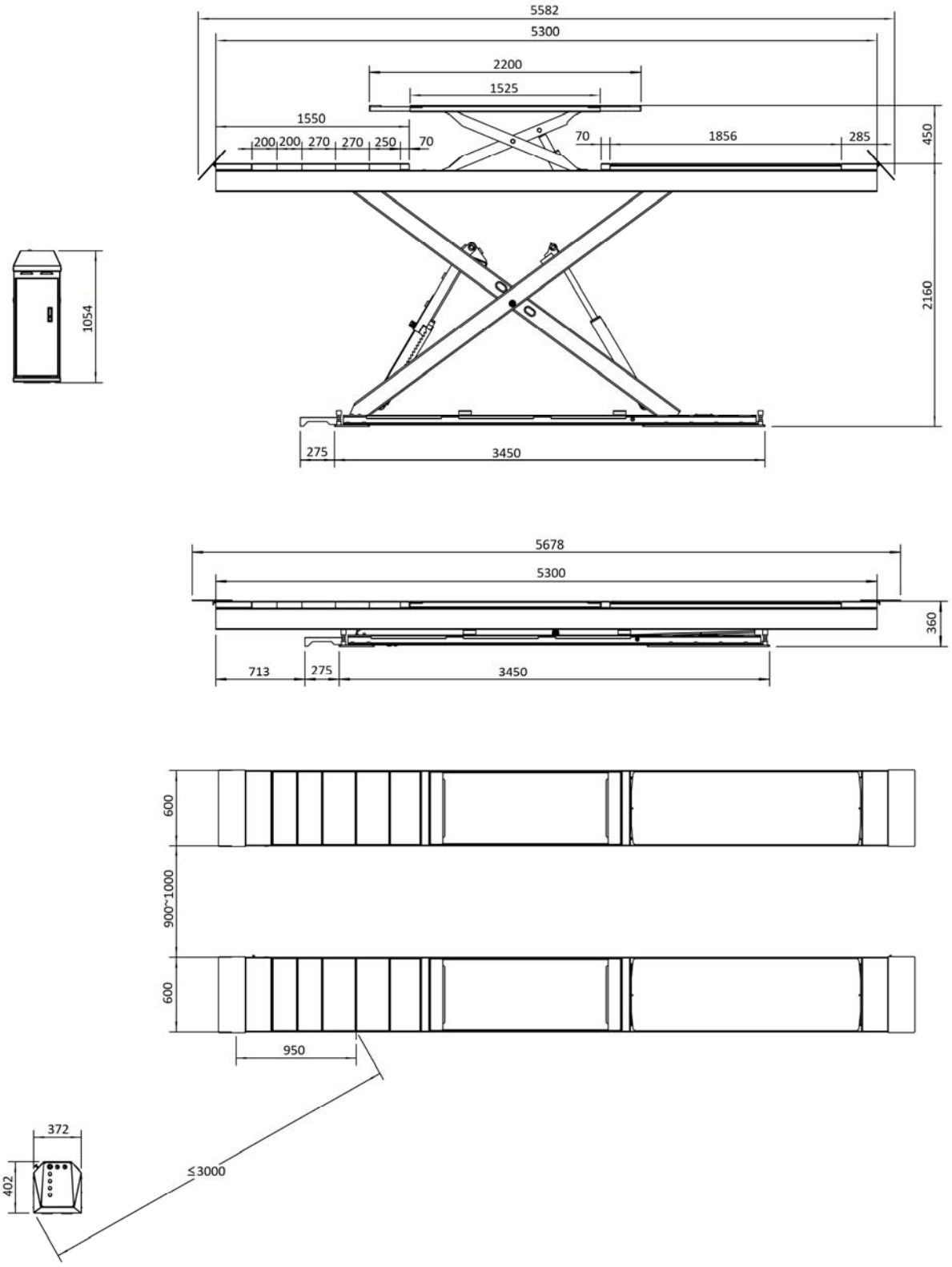
3.2 Construction of the lift



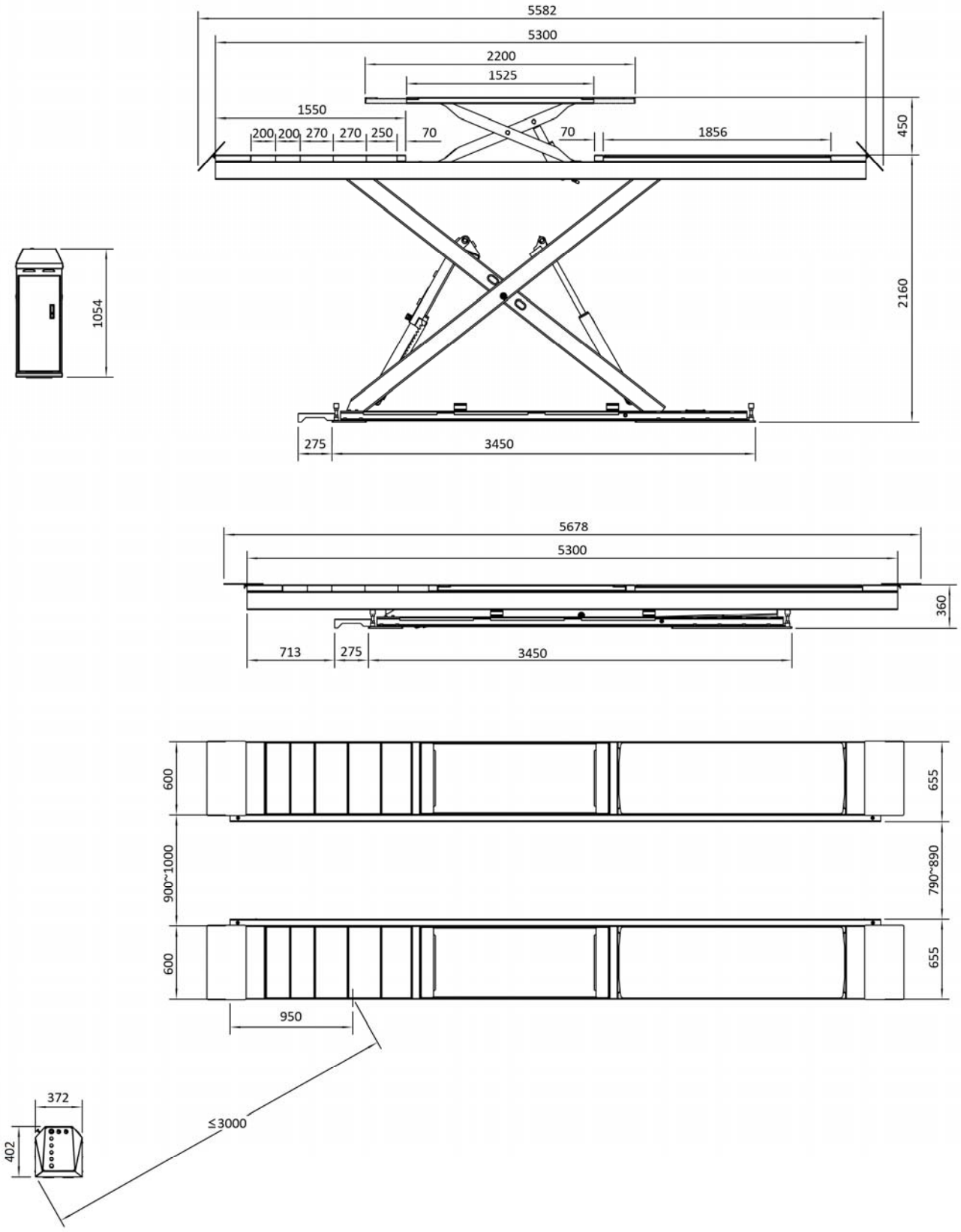
1. Scissor arm (wheel-free lift)
2. Wheel-free platform
3. Wheel-support platform B
4. Wheel-support platform A
5. Cylinder assembly
6. Mechanical safety lock
7. Control and power unit
8. Base frame assembly
9. Scissor arm (wheel-support lift)

3.3 Dimensions

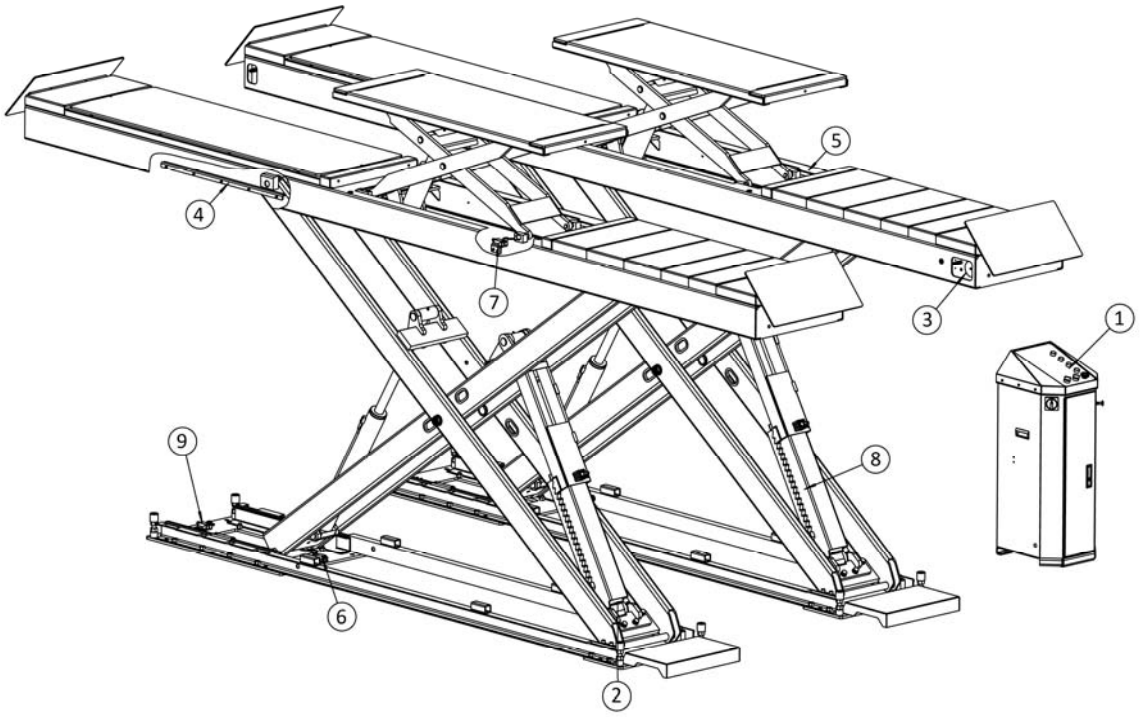
53L without tracks



53L with tracks for rolling jack



3.4 Safety device descriptions



Pos.	Safety device	Function
1	24V safe control voltage	Safety voltage for operator.
2	Flow restrictive valve	Prevent the load carrying platforms from being lowered too quickly in case of leakage in the hydraulic circuit.
3	Out-of-level photoelectric sensor	Automatically stop raising and lowering operations in the event of an excessive height deviation between the two platforms.
4	Stop for the slider	Prevent the slider from disengaging or sliding off the guide rails.
5	Stop for the slider	Prevent the slider from disengaging or sliding off the guide rails.
6	Max height limit switch for wheel-support platform	Ensure the wheel- support platforms stop rising at maximum lifting height.
7	Max height limit switch for wheel-free platform	Ensure the wheel-free platforms stop rising at maximum lifting height.
8	Mechanical latch	Catching device preventing unintentional lowering. Hold still the platforms in case of hydraulic leakage.
9	Limit switch for safe lowering	The lifting platform automatically halts descent at a safe height above ground. Lowering resumes upon pressing the DOWN II button, triggering an audible warning to keep personnel clear of moving parts.

3.5 Technical data

Wheel-support lift

Rated capacity	5000kg
Full raised height	2160mm (1800mm above floor for flush mount)
Initial height	360mm
Full raised time (with rated load)	Approx.60s (3.5kW, 3Ph)
Full lowered time (with rated load)	Approx. 30s
Max. Hydraulic working pressure (with rated load)	Approx.28MPa
Pneumatic working pressure	6-8bar
Applicable turntable dimensions	400mm x 400mm
	450mm x 450mm
	470mm x 470mm

Wheel-free lift

Rated capacity	3500kg
Full raised height	450mm
Full raised time (with rated load)	Approx.10s
Full lowered time	Approx. 15s (dependent on wheel height, unloaded descent requires additional time)
Max. Hydraulic working pressure (with rated load)	Approx.24MPa

INSTALLATION INSTRUCTIONS

4.1 Preparations before installation

4.1.1 Installation environment

- **This lift must be installed and used indoors only.**
- **Do not expose to rain, snow, or damp conditions.**
- **Operation near explosives or open flammable liquids is strictly prohibited.**

Please refer to Section 3.3 for specific dimensions of the lift. The installation site must provide sufficient space for vehicle access and lifting operations, and must comply with all applicable local regulations regarding safety clearances. It is recommended to maintain a minimum clearance of at least 1 meter between all lifting positions of the lift and any fixed structures (e.g., walls).

4.1.2 Foundation requirements

Prior to installation, consult the manufacturer's after-sales service or an authorized distributor regarding specific foundation requirements.

Foundation conditions

- ✓ C30 concrete, strength should at least be 30MPa
- ✓ Concrete thickness should at least be 200mm.
- ✓ The installation surface must be level (deviation within 5mm), capable of supporting the full load of the lift, and free from cracks, spalling or deterioration.
- ✓ Newly poured concrete shall cure for at least 20 days prior to lift installation.

⚠ WARNING!

An inadequate foundation will lead to poor platform leveling, uneven stress and deformation of the mechanical structure, operational noise, and damage to the lift.

⚠ WARNING!

If installing over a finished surface (e.g., tile, marble), the thickness and the strength of the underlying concrete base must be verified prior to installation.

4.1.3 Power supply requirements

- ✓ Confirm the lift's electrical parameters (e.g., 380V/50Hz/3ph) prior to installation. The power supply must be compatible with the lift.
- ✓ An independent circuit breaker with leakage protection should be installed at each power supply origin.
- ✓ For three-phase power supply, the recommended circuit breaker specification is C25/3P. Power supply wires shall have a minimum cross-section of 2.5 mm^2 to ensure sufficient current-carrying capacity.
- ✓ For single-phase power supply, the recommended circuit breaker specification is C40/2P. Power supply wires shall have a minimum cross-section of 4.0 mm^2 to ensure sufficient current-carrying capacity.

⚠ WARNING!

The power supply voltage fluctuation must remain within the tolerance, typically ±10% of the rated voltage. Voltage instability will cause impaired performance and a significant reduction in service life.

4.1.4 Air supply requirements

Air pressure:

The supply air pressure shall be maintained within the range of 0.6 ~ 0.8 MPa (6 ~ 8 kgf/cm²).

The minimum working pressure must not fall below 0.6 MPa.

Air quality:

Provide clean, dry air only. Contaminants or moisture in the air will cause safety mechanism failure.

Air hose specification:

PU air hose with an outer diameter of 8mm and an inner diameter of 5 mm.

⚠ WARNING!

Inadequate air pressure (too low or unstable) will result in the latching device failing to engage or disengage, creating a safety hazard**.**

4.1.5 Hydraulic oil specifications

At least 22 liters of hydraulic oil are required to ensure the lift can reach its maximum lifting height.

The equipment's tank has an effective volume of 18 liters.

For ambient temperatures above 10°C, HM46 anti-wear hydraulic oil is preferred.

For ambient temperatures consistently below 10°C, HM32 hydraulic oil is recommended to ensure proper flow.

⚠ WARNING!

Mixing of different oil brands or grades is strictly prohibited. Chemical reactions between different oils can lead to degradation and severe damage to the hydraulic system.

4.1.6 Tools and equipment needed for installation

Tool name	Specification	Qty
Electrical drill	With D16 drill bit.	1
Open-end wrench	D17-19, D24-D26	4
Hex wrench	5mm	1
Cross-head screwdriver	PH2	1
Quick wrench extension bar	REB-310	1
Socket Wrench	D24	1
Spirit Level	Accuracy 1mm	1
Hammer	10 pounds	1
Forklift	Capacity 4000KG	1
Lifting strap	Capacity 2000KG	2
Torque Wrench	MD400	1

4.2 Checking parts

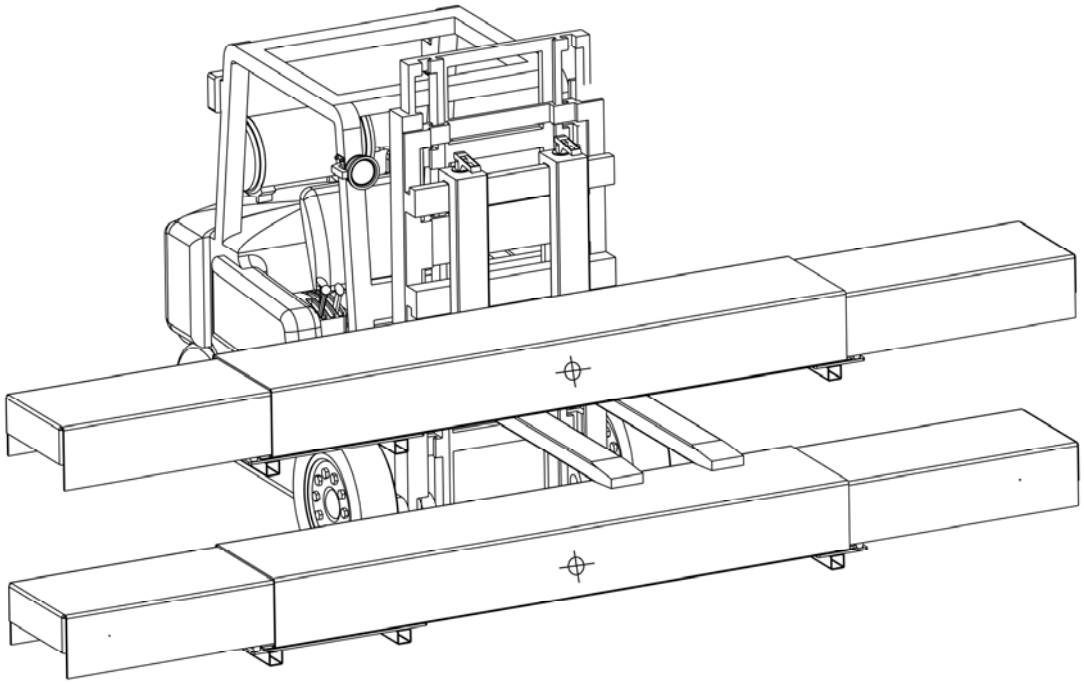
Upon unpacking, please verify all parts against the following list. Should any items be missing, do not hesitate to contact your dealer. Installation with missing parts is not recommended. Any parts required after installation will be charged separately.

Lift			
S/N	Description	Specification	Qty
1	Lifting platform	DX50BWF	2
2	Hose cover	DX50-A1-B5	2
3	Hex socket button head screw	M8X12	4
Control cabinet			
S/N	Description	Specification	Qty
1	Expansion bolt	M16x120	16
2	Rubber pad	120*100*70	4
3	Male connector (C style)	PP20	2
4	Adjustment shim	6603B-A16	16
5	Manual		1
6	Key for the cabinet		1
7	Instruction label attached with the tank		1

4.3 General installation steps

ONLY TRAINED AND QUALIFIED INSTALLERS CAN PERFORM LIFT INSTALLATION DUTIES.

Step 1: Transport the lifting platforms and control cabinet to the installation site.



Step 2: Remove the packaging, then hoist the platform onto the installation foundation.

Remove packaging material from the lifting platforms and control cabinet. Two hose covers are included in the platform packaging, and spare parts (such as expansion bolts, adjustment shims, etc.) are inside the control cabinet.

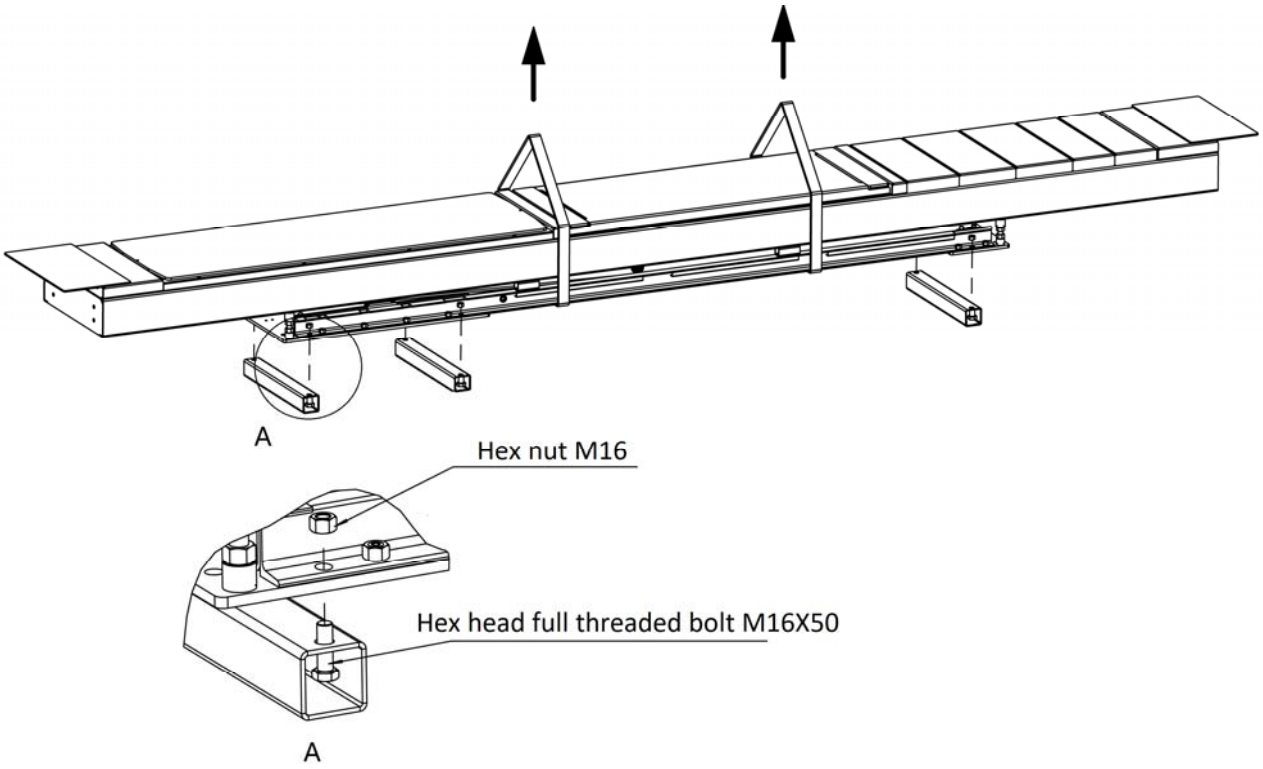
Use a sling with a rated capacity greater than 2,000 kg. Pass the sling through the lifting points located at the base of the lift.

Carefully position the forklift forks under the slings and raise slowly until the slings are fully taut.

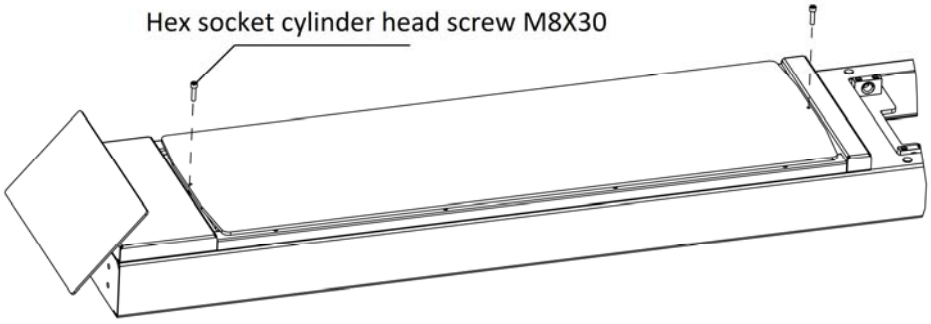
Remove the six sets of M16x50 bolts and M16 nuts that secure the lift's baseplate to the support tubes.

Slowly hoist the lift until it is completely clear of the support tubes.

Carefully align the platform with the mounting position and lower it slowly into the installation site.



Remove the screws at the both ends of slip plate, these screws are used to prevent the slip plates from moving during transportation.



⚠ CAUTION!

Unauthorized personnel must keep clear of the installation area.

⚠ CAUTION!

Take care not to scratch the platform's paintwork during unpacking.

⚠ CAUTION!

During unpacking and hoisting, special attention must be paid to protecting all cables and hoses from crushing, scraping or bending.

Step 3: Hydraulic line connection.

⚠ CAUTION!

Do not start the hydraulic pump before hydraulic oil is filled! Dry running (without oil) can severely damage the pump within minutes.

Cleanliness is critical for the long-term reliability of the hydraulic lift power system.

Contaminants entering the hydraulic system can cause damage to the hydraulic pump, control valves, and cylinders, leading to increased internal leakage, reduced performance, and ultimately, lift malfunction.

Take measures to ensure no contaminants enter the system during connection:

- ✓ Inspect the area around the lift before connecting the hydraulic lines ensuring no operations that generate dust (such as grinding, cutting, etc.) are being conducted nearby.
- ✓ Use a lint-free cloth (e.g., microfiber or dedicated non-woven cloth) to clean the areas around the ports and connectors.
- ✓ Wear clean, powder-free latex or nitrile gloves to prevent contamination from hand sweat, oils, or skin particles.
- ✓ Ensure the all connections are secure and correctly screwed.

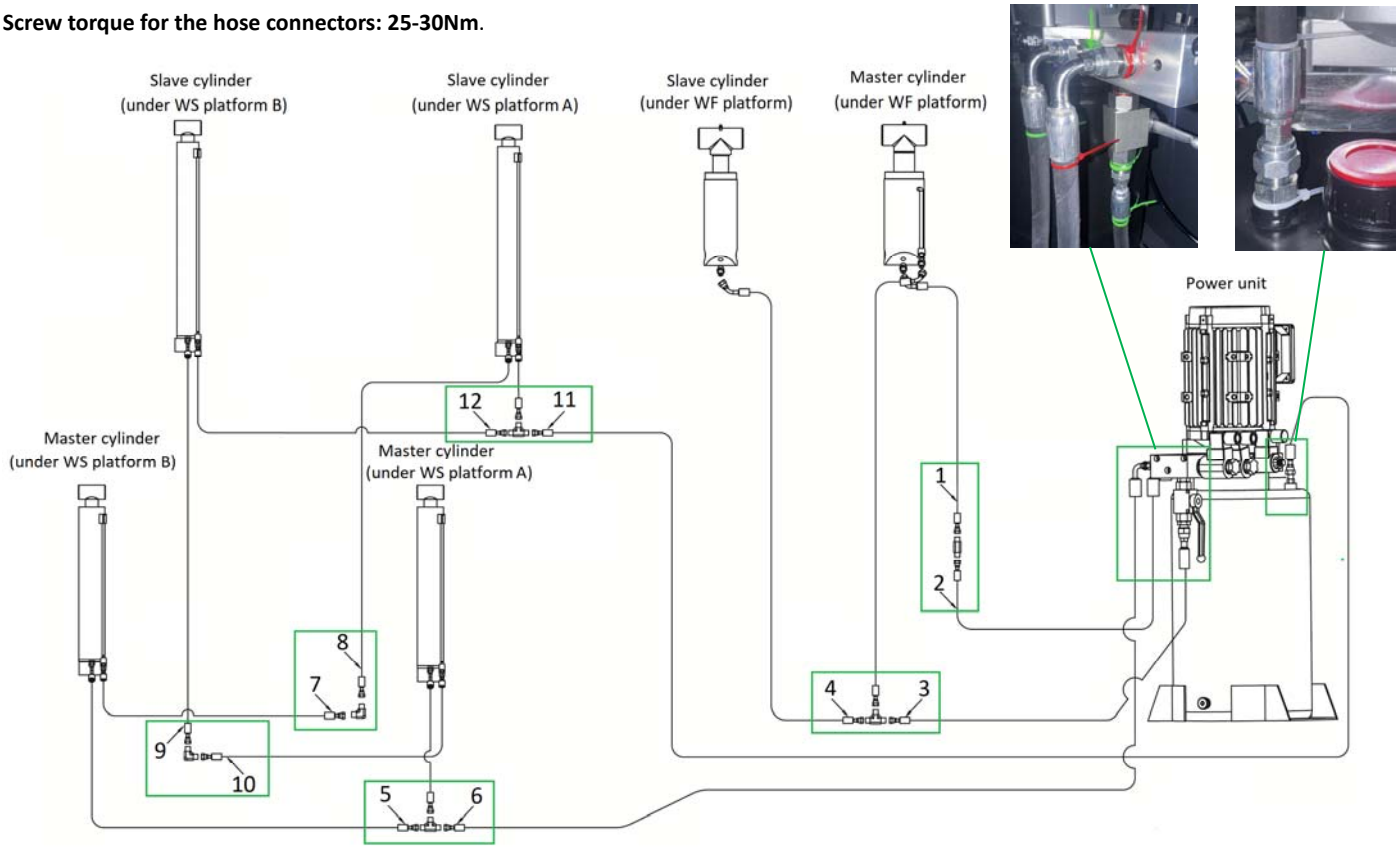
Connect the Lines:

Prior to connection, thoroughly understand the hydraulic line connection diagram. This is crucial.

Check and identify the plastic tie marks (plastic ties colored in red, white and green) attached to hoses and corresponding ports to show which hose connects where. As shown in the following diagram, connect Line 1 with Line 2, Line 3 with Line 4, Line 5 with Line 6, Line 7 with Line 8, Line 9 with Line 10, and Line 11 with Line 12.

Connect Line 2, Line 3, Line 6, and Line 11 to their corresponding ports on the hydraulic block and oil tank.

Screw torque for the hose connectors: 25-30Nm.



Notes:

*WS platform: Wheel-support platform

*WF platform: Wheel-free platform

Step 4: Electrical system connection.

Only qualified personnel with a thorough understanding of electrical codes and safety standards may perform the following tasks.

Pre-Connection Verification:

1. Before connecting any wires, ensure the main power supply to the lift is completely disconnected.
2. Verify that the site power supply parameters (e.g., 380V 3-phase or 220V single-phase) and frequency (50Hz) exactly match the specifications on the lift's nameplate.
3. Ensure the power supply meets the following requirements before connection:

For three-phase power supply, the recommended circuit breaker specification is C25/3P. Power supply wires shall have a minimum cross-section of 2.5 mm^2 to ensure sufficient current-carrying capacity.

For single-phase power supply, the recommended circuit breaker specification is C40/2P. Power supply wires shall have a minimum cross-section of 4.0 mm^2 to ensure sufficient current-carrying capacity.

Wiring procedure:

Match the numbered tags on the quick-connectors and join the plugs with same numbers.

1. Connect wires for the photoelectric switch, LED lamp and two limit switches.
2. Connect power cables to the power supply.

Inspection:

1. Check all connections against the provided electrical diagram for correctness.
2. Ensure the protective earth (PE) wire inside the control box is securely connected.
3. Confirm all terminal connections are properly tightened.

⚠ WARNING! Before connecting any wires, ensure the main power supply to the lift is completely disconnected.

⚠ CAUTION! For 3-phase configurations, if the platform fails to rise and the motor reverses when the 'UP' button is pressed, it indicates an incorrect motor phase sequence. Swap the positions of any two phase wires (e.g., L1 and L2) at the main power input terminal.

Step 5: Fill hydraulic oil

⚠ CAUTION!

Only use fresh, clean hydraulic oil from a reliable source. Do not use recycled oil, mixed oil, or oil of unknown grade or specification.

Always use a dedicated oil can or hand pump with a funnel that is equipped with a filter.

Thoroughly clean the area around filler opening with a lint-free cloth to prevent any contaminants (such as dust, lint) from falling into the tank.

Contaminants entering the hydraulic lines can cause:

1. Damage to the hydraulic pump, control valves, and cylinders.
2. Increased internal leakage.
3. Degraded lift performance and potential functional failure.

Oil type and quantity:

For ambient temperatures above 10°C, HM46 anti-wear hydraulic oil is preferred.

For ambient temperatures consistently below 10°C, HM32 hydraulic oil is recommended to ensure proper flow.

At least 22 liters of hydraulic oil is required to ensure the lift can reach its maximum lifting height.

Filling hydraulic oil:

Turn SA1 to Levelling, SA2 to wheel-support platform and SA3 to OFF mode.

Slowly pour 17 liters of hydraulic oil into the tank.

Push the UP button at least for 60 seconds.

Refill the tank with the remaining 5 liters of hydraulic oil.

Do not overfill. Leave approximately 10% of the tank's volume empty to allow for oil expansion and to provide necessary ventilation.

The oil level is correct when the lift platform can rise smoothly from its lowest to its highest position.

Bleeding:

System bleeding is required after initial filling or oil change.

These help circulate the oil and purge trapped air in the cylinders and lines, preventing jerky operation.

After bleeding, verify that the lift reaches its maximum designed height. If not, add hydraulic oil as necessary.

Hydraulic oil replacement

The hydraulic oil must be replaced after the first 6 months of operation.

Following the initial change, it is recommended to replace the hydraulic oil annually (once a year).

For frequent use or harsh conditions (e.g., excessive dust, high moisture, extreme temperatures), shorten the replacement interval accordingly.

⚠ CAUTION!

Before performing any hydraulic system maintenance, ensure the lift is UNLOADED and SAFELY LOCKED.

⚠ CAUTION!

Waste hydraulic oil must be recycled and disposed of according to local environmental regulations.

⚠ CAUTION!

Hydraulic oil and oil spills are flammable. Keep away from ignition sources during filling or maintenance.

⚠ CAUTION!

If any oil is spilled, wipe it up immediately to prevent slipping hazards.

Step 6: Pneumatic system connection and pressure regulation.

Only clean and dry air supply can be used. Ensure proper lubrication in the pneumatic system.

Compressed air supply: 6-8 bar

⚠ CAUTION!

Clean the interfaces and performing a quick purge of the line connectors to remove contaminants before final assembly. Contaminants are the primary cause of pneumatic system failure.

Confirm that all air connectors are tight before turning on the air supply.

Recommended torque:

Thread specification	Screw torque(Nm.)
PT1/4	8~10
PT1/8	6~8
M8	1.5~2
M10	2~2.5

Connect the air lines.

Check and match the tie marks (colored plastic ties) attached with the air hoses before connecting the lines.

Connect the corresponding air lines according the following diagram.

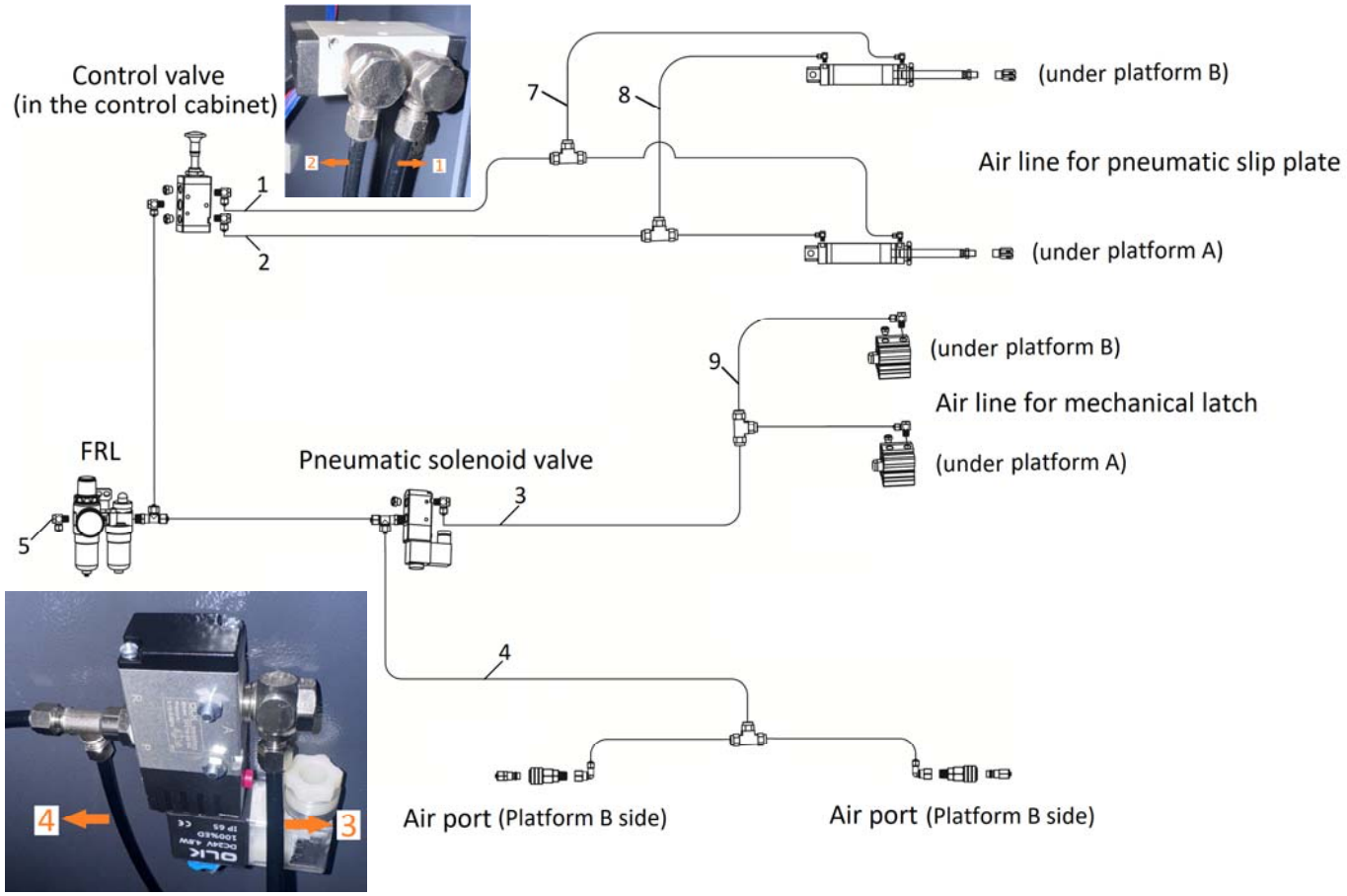
Connect air line 1 and line 2 to the ports of the control valve inside the cabinet.

Connect air line 3 to the right-angle pneumatic fittings on the solenoid valve.

Connect air line 4 to the T-fitting on the solenoid valve.

Connect the air supply hose to the inlet port of the FRL (Filter, Regulator, and Lubricator) Unit (Pos. 5).

Connect air lines 7, 8, 9 to corresponding T-fittings under the wheel support platform A.



⚠ CAUTION!

Do not swap the connection positions—specifically, line 7 with line 8, or line 1 with line 2.

Swapping these connections will cause system failure.

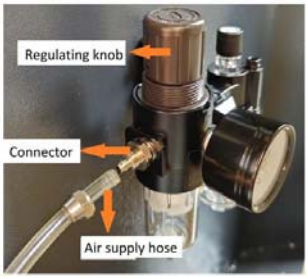
Adjusting the pressure

Locate the pressure regulator knob on the FRL unit.

Pull the knob up to unlock it.

Slowly turn the knob clockwise while observing the pressure gauge. Set the pressure to a stable reading between 0.6 and 0.8MPa.

Push the knob down firmly to lock the pressure setting.



Lubrication

Shut off the air supply and depressurize the system.

Remove the screw on top of the oil cup. Fill the cup with pneumatic tool oil (recommended viscosity: ISO VG 32) to approximately two-thirds of its capacity.

Use the knob on the top of the cup to adjust the drip rate. The recommended initial setting is **"5"**.

⚠ CAUTION!

Never use engine oil or hydraulic oil as a substitute for pneumatic oil, as this may cause damage to the components.

Check the pneumatic system after air line connections and pressure adjustment.

1. Verify that both locking mechanisms engage and disengage smoothly and synchronously
2. Ensure quick air connecting couplings are leak-free and functioning correctly.
3. Confirm that the pneumatic locking slip plates on both sides lock and release properly.

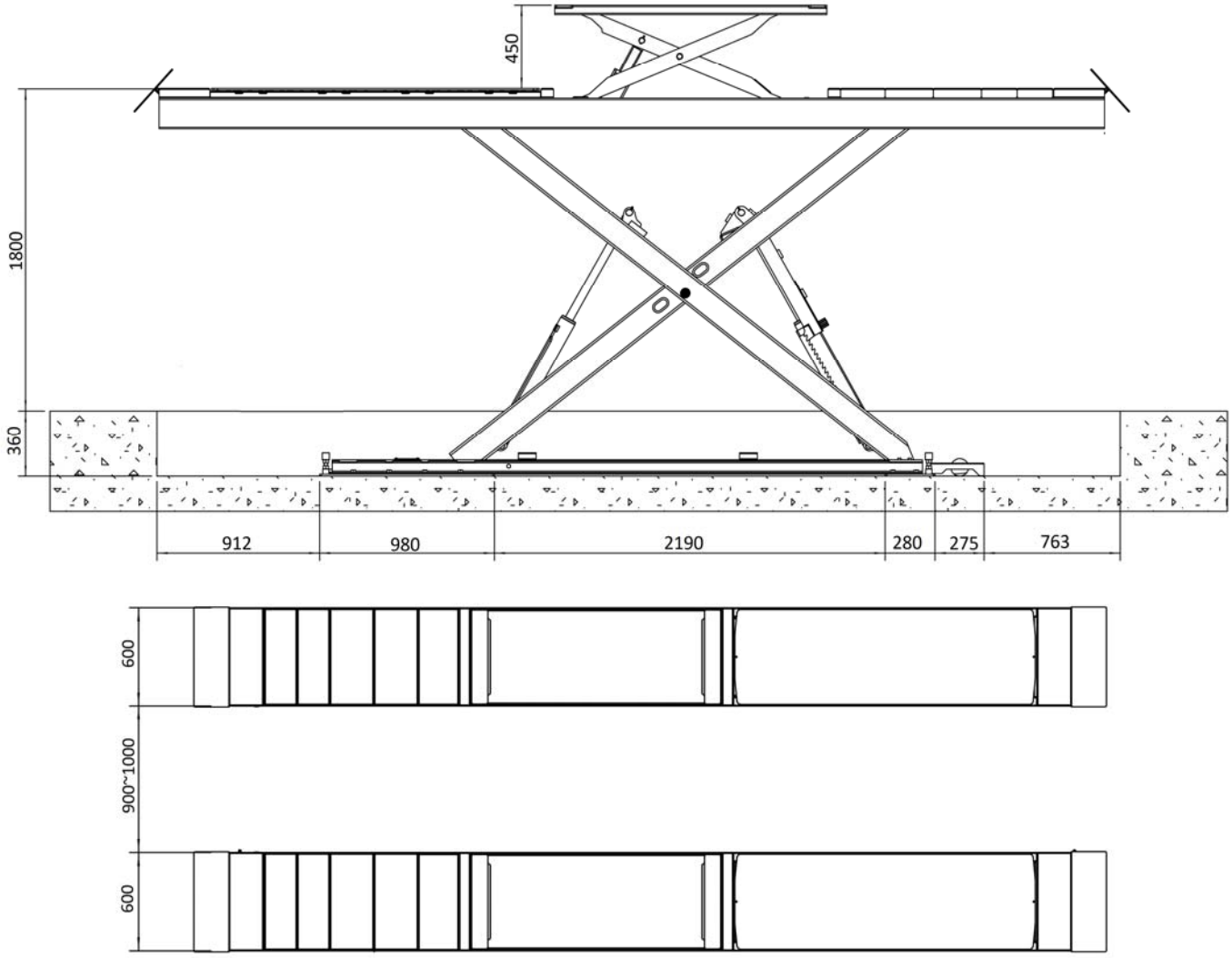
Step 7: Align the installation position

1. Align the two platforms.

Align both platforms symmetrically with respect to the established centerline.

Ensure the platforms are square to each other by verifying that diagonal measurements are equal.

Confirm that the final spacing between the platforms matches the specified dimension on the drawing.



2. Level two bases.

Level each of the two bases individually on the floor, then check the relative levelness between the left and right bases. If the floor is uneven, insert adjustment shims between the base and the floor until the base is perfectly level. Repeat this process for both bases, ensuring each one is stable and level.

3. Check platform level Front-to-Back.

Check the front-to-back level of each individual platform, ensuring each platform is level along its length.

4. Check platform level Side-to-Side.

Check the relative level between the left and right platforms at the front end and at the rear end.

Step 8: Levelling

1. Check the following items before initial operation.

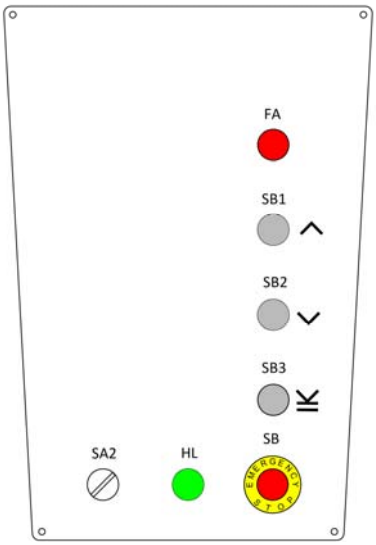
S/N	Check items	Actions
1	Power supply	Verify that the incoming power supply voltage matches the equipment's rated voltage requirements.
2	Electrical system	Ensure all electrical terminals and connectors are tight and secure. Inspect all wiring for intact and undamaged insulation.
3	Hydraulic line	Check all hydraulic lines and fittings for signs of leakage. Ensure hydraulic hoses are not at risk of being crushed or abraded.
4	Pneumatic line	Check all pneumatic lines and fittings for signs of leakage. Ensure air hoses are not at risk of being crushed or abraded.
5	Mechanical & Lubrication	Inspect all moving parts (e.g., arm hinges, slide rails) to ensure they are properly lubricated and move smoothly without obstruction.
6	Mechanical latch	Operate the mechanical latches to verify that both locking mechanisms engage and disengage smoothly and synchronously.
7	Limit switch	Confirm the max height limit switch and descent limit switch are securely mounted.

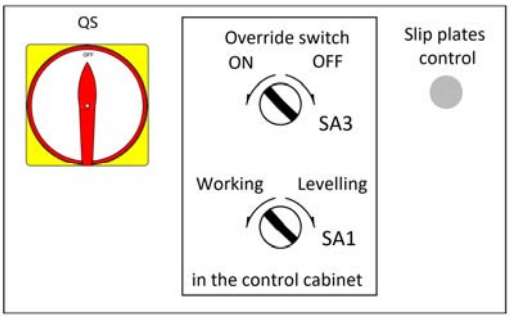
2. Understand the section 5.1 to familiarize yourself with the functions of all control buttons and switches prior to operation.

3. Make sure no vehicle is loaded on the lift.

4. Ensure the lifting area shall be clear of all personnel and obstacles.

Level the wheel-support platform.





1. Turn on the main switch (QS). Turn the switch (SA2) on control panel to wheel-support platform.
2. Open the door of control cabinet. Turn the switch (SA3) to “OFF” and the switch (SA1) to “Levelling” mode.
3. Push and hold the "UP" button to raise both platforms to their maximum height. Continue holding the "UP" button for an additional minute (60 seconds).
4. Then push the “DOWN” button (SB2, SB3) until both platforms are lowered fully to the bottom.
5. Raise the lift to check synchronization between the two platforms. If they still run out of synchronization, repeat steps above until both platforms run synchronously.
6. Turn the switch (SA3) to “ON” and switch (SA1) to “Working” mode.

Level the wheel-free platform.

Levelling valve ON Levelling valve OFF

1. Select wheel-free platform

Turn the switch (SA2) on control panel to the wheel-free platform.

2. Bleed the master cylinder.

Turn the switch (SA1) to “Working” mode.

Push the “UP” button until the master platform (wheel-free platform over the master cylinder) rises to its maximum height. Then push the “DOWN” button (SB3) until it lowers to its lowest position. Raise and lower the platform for several complete cycles to bleed. After bleeding, raise it to the maximum height.

3. Bleed the slave cylinder.

Turn the switch (SA1) to “Levelling” mode.

Turn on the levelling valve. Push the “UP” button until the slave platform (wheel-free platform over the slave cylinder) is raised to its maximum height. Then push the “DOWN” button (SB3) until it is lowered fully to its lowest position. Raise and lower the platform for several complete cycles to bleed. After bleeding, raise it to the maximum height.

4. Check the synchronization.

Turn off the levelling valve and turn the switch (SA1) to “Working” mode.

Lower both platforms fully to the bottom position.

Raise both platforms and observe their movement.

If the platforms are out of synchronization:

Turn switch (SA1) to “Levelling” mode.

Turn on the levelling valve.

Adjust the slave platform height:

If the slave platform is **lower** than the master, press the “UP” button to raise it.

If the slave platform is **higher** than the master, press the “DOWN” button (SB3) to lower it.

Repeat these adjustments until both platforms are synchronized.

5. Return to Operation

Turn off the levelling valve and turn the switch (SA1) to “Working” mode.

Step 9: Fix base frames with expansion bolts.

Bolt specification: M16x120

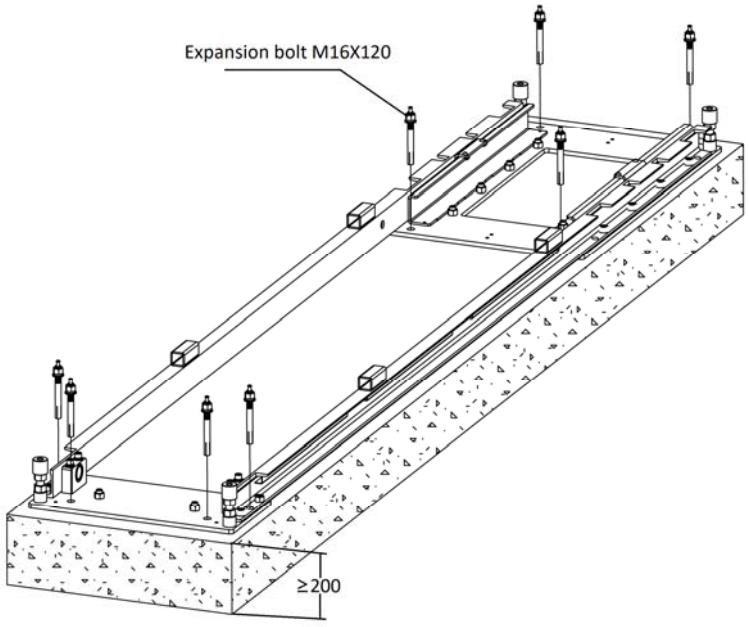
Foundation requirements:

The foundation must be a solid intact concrete slab with a minimum compressive strength of 30MPa.

The thickness of the concrete base shall at least be 200mm.

The edge of the bolt installation hole must be at least 150mm from the edge of the concrete member or any expansion seam.

If a finish layer (e.g., tile, marble) is present, the material, thickness and strength of the underlying concrete must be verified before anchoring .Never just anchor within the finish layer as it cannot provide adequate load-bearing capacity.



Install the expansion bolts

1) Check and confirm the relative positions of all anchor holes on the baseplates of the lift. Use cross-marking lines to accurately mark the drilling center point for each hole.

2) Use a D16 carbide drill bit. Make sure to drill vertically down.

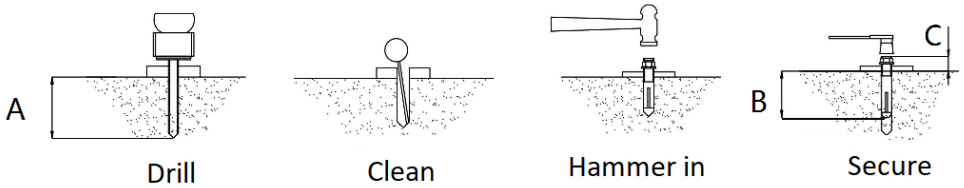
3) Remove all dust and debris from the hole (use compressed air e.g. a blow-up bulb or specialized air pump and a brush)

Warning: Residual dust in the hole may reduce the anchoring strength.

5) Check again the position of the base plates to ensure they are correctly positioned. Insert the expansion bolt through the installation hole in the lift baseplate from above.

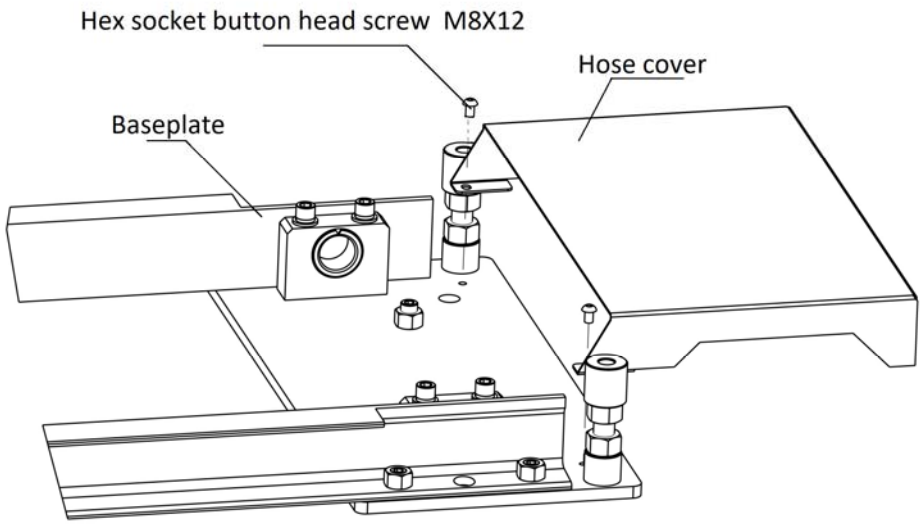
6) Impact and drive anchoring bolt into hole until its nut and washer contacts the base.

7) Tighten the nut with torque wrench to 80-100Nm.



Anchoring bolt	Concrete thickness	A (Drilling depth)	B (Anchoring depth)	C
M16x120	≥200mm	110mm	95mm	≤55mm

Step 10: Install the hose cover

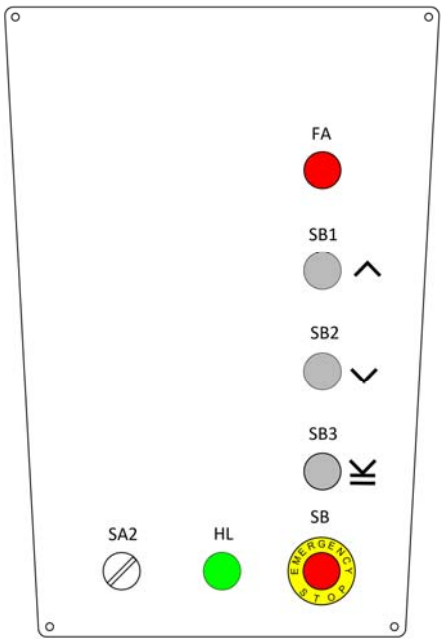


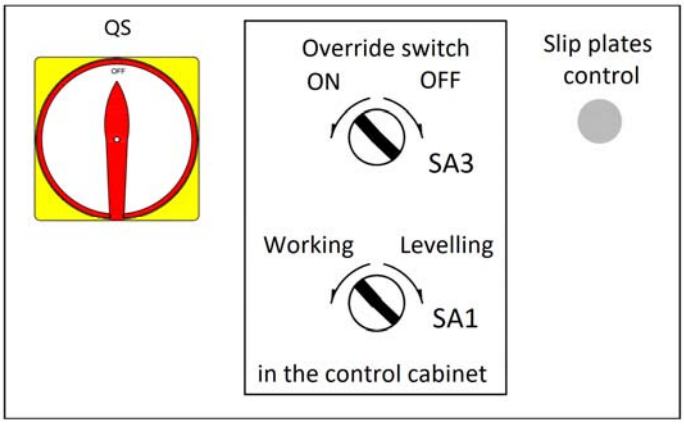
4.4 Items to be checked after installation.

S/N	Check items	YES	NO
1	Screw torque of expansion bolts : 80-100Nm;	√	
2	Lifting speed ≥20mm/s;	√	
3	Noise level (under rated load)≤ 75dB(A) ;	√	
4	Grounding resistance≤ 4Ω;	√	
5	Height difference of the platforms ≤5mm;	√	
6	Maximum designed lifting height is achieved	√	
7	Both platforms rise and lower smoothly without jerking.	√	
8	Mechanical latches are robust and engage/disengage synchronously under load.	√	
9	No oil leakage is present at any connectors, lines, or cylinders during operation under load.	√	
10	No abnormal noise (e.g., grinding, knocking) is present during operation under load	√	
11	All expansion bolts, nuts, and circlips are securely installed and tightened.	√	
12	All control buttons function correctly in a "hold-to-run" mode	√	
13	All limit switches function correctly and trigger as designed.	√	
14	The protective grounding wire is properly connected and secure.	√	
15	All safety advisories, nameplates, and logos are legible and securely affixed.	√	

OPERATION INSTRUCTIONS

5.1 Descriptions of control panel





Pos.	Description	Function
FA	Alarm buzzer	Audible warning for descent of the final travel. This alerts personnel in the vicinity that the platform is approaching its lowest position.
HL	Power Indicator	Provide clear visual confirmation that the control circuit is energized and power is on.
SB	Stop button	Immediately cuts control power in an emergency, halting all platform movement.
SB1	UP button	Initiate the raising movement of the platform.
SB2	DOWN button	Controls the initial lowering phase from a raised position.
SB3	DOWN button	Control the final phase of lowering.
	LOCK button	Hold the platform in place by engaging the mechanical locking device.
QS	Main switch	Power on /off.
SA1	Selection switch	Working mode: standard mode for normal raising and lowering operations.
		Levelling mode: mode for bleeding the hydraulic lines
SA2	Selection switch	Select to run the wheel-support platform or wheel-free jack.
SA3	Selection switch	Turn on or off the synchronization protective device.
	Slip plates control	Lock or release the pneumatic slip plates.

5.2 Safety guide

Authorized use only.

Only trained and authorized personnel may operate this lift.

Review and understand the operator's manual prior to use.

Take a look around prior to use

Ensure the lifting area is clean, dry, and free of obstacles. Check the lift platforms to ensure they are free of oil, water, or any slip hazards.

Always check roof clearance from lights, pipes, and ceiling. Pay extra attention to tall vehicles like vans & SUVs.

Positioning the vehicle

Drive the vehicle onto the platform slowly and center it as best you can.

Always remember to set the parking brake after positioning the vehicle.

Operating the Lift

Don’t leave the control station while the lift is in motion.

Keep an eye on the vehicle to ensure it is lifting evenly and steadily.

During the lifting movement, keep watching the vehicle’s roof to prevent any bumps with overhead objects.

Always engage the mechanical locking device into place before working near or under the vehicle.

Prior to lowering the vehicle, a final confirmation must be made that all personnel, tools, and equipment have been removed from the vicinity of the lift and the area under the vehicle.

Always turn off the main power before leaving the controls unattended to prevent unauthorized or accidental use.

5.3 Lifting and lowering procedures

Ensure the side slip plates are locked in position before positioning the vehicle on the lift.
Do not attempt to lift only one end or one corner of a vehicle.
Prior to normal operation, set switch-SA1 to WORKING mode and turn on SA3.

5.3.1 Using the wheel-support platform

Max. Capacity of the wheel-support platform: 5000KG

Raising

1. Turn on the main power switch.
2. Drive the vehicle onto the platform, ensuring it is centered and parked midway between the two platforms. Set the parking brake making it is positioned against rolling.
3. Push the "UP" button to raise the platform a short distance off the ground and check to confirm the vehicle is steady and properly positioned.
4. Continue to raise the vehicle to the expected working height. Push "Safety Lock" button (SB3) to engage the mechanical locking device.
5. Perform a final stability check before starting any maintenance or repair work underneath the vehicle.
6. Turn off the main switch.

Lowering

⚠ CAUTION!

Before lowering the platform, operators must disconnect all pneumatic tools (e.g., tire inflators, pneumatic wrenches) from the air supply connections. Store tools securely in their designated storage locations to prevent them from colliding with the foundation when the platform reaches its lowest position.

⚠ CAUTION!

When lowering the lift, ensure the area is clear of all personnel and objects before and during descent.1. Turn on the main switch.

1. Push the “DOWN” button (SB2) to lower the lifting platform. It will stop lowering at safety height.
2. Push “DOWN” button (SB3) button to continue lowering the platforms which accompanies with an audible warning
3. Having been lowered completely, remove rubber pads and other tools to provide an unobstructed exit for moving vehicle from the lift area.
4. Carefully drive the vehicle off the lift platform.

Restoring Synchronization Fault – Authorized Personnel Only

⚠ CAUTION!

Excessive height variation between the platforms will activate the synchronization protection device, halting all movement. If this occurs, the normal operator must request assistance from maintenance personnel. Do not attempt to override this safety feature.

The following procedure is to be performed by authorized maintenance personnel to restore the lift to normal operation.

1. Open the control cabinet door.
2. Turn the selection switch switch-SA3 to OFF mode.
3. Push DOWN I and DOWN II button to fully lower the platforms.
4. Level until both platforms are synchronized. (Refer to levelling guide)
5. Turn the selection switch switch-SA3 to ON mode.
6. Conduct a thorough inspection to identify the root cause of the failure (e.g., sensor fault, hydraulic issue) to prevent recurrence.

5.3.2 Using the wheel-free platform

Max. Capacity of wheel-free jack: 3500KG

Raising

⚠ CAUTION!

Only lift at the vehicle manufacturer's specified lifting points. Do not directly lift the vehicle on vulnerable areas such as fuel tanks, exhaust pipes, or body panels.

1. Set the switch-SA2 on the control panel to wheel-free jack.

2. Ensure all lift pads are securely and correctly positioned at the vehicle manufacturer's specified lift points.

3. When it is necessary to use the platform extensions, push “UP” button to raise platforms of the jack slightly above the platforms of main lift and pull out the extensions to the expected length.

4. Push the “UP” button to raise the platform until all pads firmly contact the vehicle's pick-up points. Confirm for secure contact and stability.

4. Keep on pushing “UP” button until it reaches to the expected height.

Lowering

⚠ CAUTION!

In case the platform extensions are used, the operator must retract both extensions when four wheels of vehicle get sufficiently contact with wheel-support platforms.

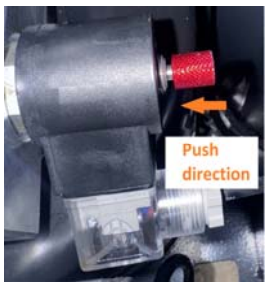
1. Set the switch-SA2 on the control panel to wheel-free jack.

2. Push “DOWN” button (SB3) on the control panel to lower the jack.

3. Remove the rubber pads.

TROUBLE SHOOTING

TROUBLES	POSSIBLE CAUSES	SOLUTIONS
Motor does not run and will not raise.	Damaged max-rise limit switch or its wire is disconnected.	Reconnect the wire or the replace with a new limit switch.
	Damaged button for raising or its wire is disconnected.	Reconnect the wire or replace with a new button.
	Damaged contactor or its wire is disconnected.	Reconnect the wire or the replace with a new contactor. (KM in the electrical scheme)
	Synchronization protective device is activated.	Turn off the overriding switch (SA3 in the electrical scheme) and level the platforms.
	Burnt-out motor causing the circuit breaker to trip.	Replace with a new motor, reset the circuit breaker. (QF in the electrical scheme)
Motor runs but will not raise.	1. Damaged solenoid valve or its wire is disconnected. 2. The corresponding solenoid valve is jammed.	1. Reconnect the wire or the replace with a solenoid valve. 2. Clean the valve. (YV2 or YV3 in the electrical scheme)
	For 3-phase configurations, the motor run reversely due to phase-sequence error.	Correct the phase-sequence. Swap the positions of any two phase wires (e.g., L1 and L2) at the main power input terminal.
	Loose relief valve on the hydraulic block or the valve is jammed.	Tighten or clean the valve. (Pos.1 in the hydraulic block exploded scheme)
	1. Untightened hose-connectors 2. Hose leaks. 3. Jammed hose.	1. Tighten corresponding hose-connectors. 2. Replace the ruptured hoses. 3. Clean or replace the jammed hoses. (NO.1, 2, 3 hose and corresponding hose-connectors for the wheel-support platform, No.10, 11 hose for the wheel-free platform in the scheme)
	Damaged cushion valve.	Replace with a new cushion valve. (Pos.10 in the hydraulic block exploded scheme)
	Damaged gear pump.	Replace with a new gear pump. (Pos.9 in the power unit exploded scheme)
	No hydraulic oil or insufficient hydraulic oil.	Add enough oil.

TROUBLES	POSSIBLE CAUSES	SOLUTIONS
Platforms go down slowly after being raised.	1. Loose-installed solenoid unloading valve on the hydraulic block 2. Damaged or leaked solenoid unloading valve.	1. Tighten the valve. 2. Replace the valve (Pos.4 in the hydraulic block exploded scheme)
	1. Untightened hose-connectors 2. Hose leaks.	1. Tighten corresponding hose-connectors. 2. Replace the ruptured hoses. (NO.1, 2, 3 hose and corresponding hose-connectors for the wheel-support platform, No.10, 11 hose for the wheel-free platform in the scheme)
	The red spool, attached with the unloading valve for emergency descent was not screwed tight. (Pos.4 in the hydraulic exploded scheme) 	①Open the control cabinet and find the emergency unloading valve. ②Take off the protective cap of the valve and see red spool of the valve. ③Push and turn clockwise the red spool until hear sound which implicate the valve is off.  
	1. Untightened non-return valve 2. Valve leaks	1. Tighten it. 2. Replace it. (Pos.3 in the hydraulic block exploded scheme)
Raising too slowly.	Over-worn gear pump	Replace with a new pump.
	Loose oil-sucking pipe	Tighten the pipe. (Pos.13 in the power unit exploded scheme)
	Jammed filter	Clean or replace it. (Pos.15 in the power unit exploded scheme)
	1. Unclean and old hydraulic oil. 2. Too hot hydraulic oil (above 45°).	Replace the oil.
	The red spool, attached with the unloading valve for emergency descent was not screwed tight.	Tighten the spool. (Pos.4 in the hydraulic exploded scheme)
	1. Loose-installed solenoid unloading valve on the hydraulic block 2. Solenoid unloading valve leaks.	1. Tighten the valve. 2. Replace the valve

TROUBLES	POSSIBLE CAUSES	SOLUTIONS
Lowering too slowly.	1. Jammed oil hose 2. Deformed hose connector.	(NO.1, 2, 3 hose and corresponding hose-connectors for the wheel-support platform, No.10, 11 hose for the wheel-free platform in the scheme)
	Jammed connector of the cylinder	Clean or replace it. (Connector H in the scheme).
	Jammed solenoid unloading valve.	Clean or replace it.

If you are unable to resolve the issue, please contact us for assistance. Our support team will respond promptly. To help us diagnose and resolve the problem more efficiently, please provide a detailed description and, if possible, include videos or pictures of the issue.

MAINTENANCE

The safe and reliable operation of your lift requires a consistent, effective maintenance program. Adherence to a regular, standardized inspection and maintenance schedule is essential to ensure sustained performance and safety. The Interval of maintenance may be adjusted to the lift's actual workload and operating intensity.

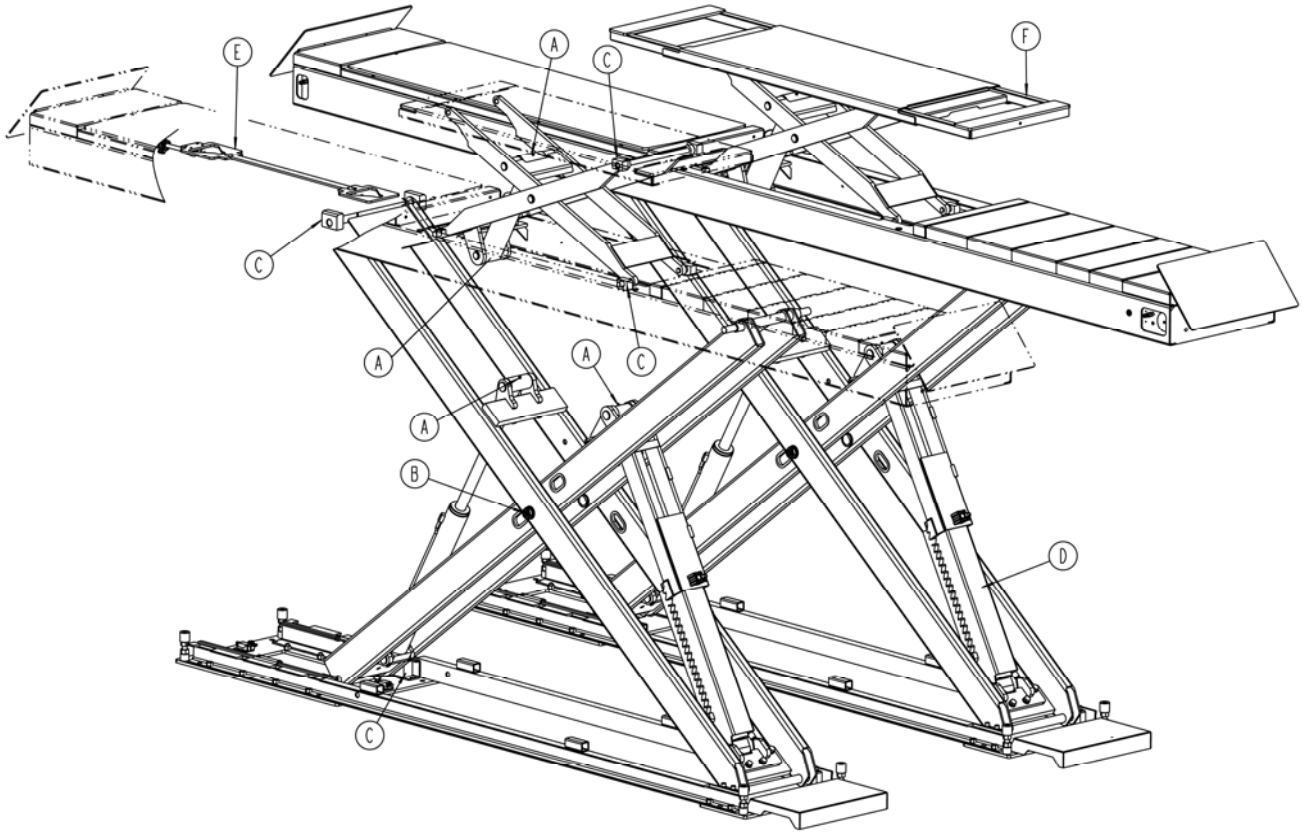
7.1 Routine and Periodic Inspections

S/N	Item	Methods	Period
1	Control buttons	Check the functions: Press to run, release to stop.	Every day
2	Limit switches for max rise	Push the UP button, inspect and ensure the lifting platform stop rising at maximum lifting height.	Every day
3	Limit switches for safe descent	Push the “DOWN” button, inspect and ensure the lifting platform stop lowering at an appropriate level above ground.	Every day
4	Lifting platform synchronization	Inspect the synchronization of the lifting motion. Ensure synchronization is correct before loading.	Every day
5	Air Regulator	**1. Air Leak Check:** Listen for any hissing at connections and components with the system pressurized. **2. Lubricator Oil Level Check:** Ensure the lubricator oil level is between the MAX and MIN marks.	Every day
6	Air Hoses & Fittings	Inspect the entire air liens and confirm no leaks at hoses, fittings, or connections. If a leak is found, shut off the air supply to depressurize the system and replace the leaking hose or fitting.	Every day
8	Valve Block & Valves	Inspect the valve block, ensuring the system is leak-free. If a leak is found, depressurize the system first and clean or replace the faulty valve.	Every day
9	Hydraulic Hoses & Fittings	Inspect all hydraulic lines and confirm no leaks at any hoses, fittings, or connections. If a leak is found, depressurize the system first and replace the failed hose or fitting.	Every day
10	Mechanical safety catch	**1. Locking Function:** Push the lock button; Both mechanical safety mechanisms engage simultaneously at the same height. **2. Unlocking Function:** Activate the descent button; Both mechanisms must disengage simultaneously.	Every day
11	Terminals in Control Cabinet	1. Lock Out & Tag Out the main power supply to the control cabinet. 2. Open the cabinet door. Visually inspect all terminals for signs of looseness, overheating (discoloration), or physical damage. 3. Tighten any loose terminals using an appropriately sized and insulated tool.	Every 3 months
12	Lubrication	Refer to 7.2 lubrication maintenance	Every 3 months
13	Sliders & Running Tracks	1. Use a brush, dry cloth, or compressed air to thoroughly remove old grease, dust, grime, and metal debris from the slider surfaces and their running tracks. 2. After cleaning, apply a suitable amount of Lithium Grease evenly to the running tracks. 3. Inspect the sliders for uneven wear, grooves, deep pits, cracks, or other structural damage. Replace immediately if excessive wear is found. Worn sliders cause unstable	Every 1 months

S/N	Item	Methods	Period
		vehicle lifting/parking and accelerate wear on cylinders, shafts, and other components, creating a safety hazard.	
14	Fasteners	1. Inspect fasteners such as bolts, nuts, screws, and expansion bolts to ensure they are not loose or detached. 2.Verify expansion bolt torque: 80-100 Nm.	Every 3 months
15	Hydraulic Oil	1. Replace hydraulic oil after the first 6 months of operation. 2. Replace annually thereafter. Increase frequency for heavy use or harsh environments. 3. Check cleanliness. Replace immediately if the oil is black or contains contaminants."	Every year

7.2 Lubrication

Lubricate all moving parts with No.1 lithium grease.



Pos.	Component	Lubrication method	Position	Qty
A	Cylinder pivot shafts	Lubricate via grease nipples	Top or bottom of each cylinder	8 points
B	Arm pivot shafts	Lubricate via grease nipples	Arm connections	4 points
C	Sliding tracks	Clean the tracks thoroughly, then apply an appropriate grease.	The tracks where sliders move.	16 tracks
D	Running surface for pneumatic cylinder	Clean the surfaces thoroughly, then apply an appropriate grease.	Mechanical safety lock	2 running surfaces
E	Drive plate running surface and track	Clean the surfaces and tracks thoroughly, then apply an appropriate grease.	Under the slip plate	4 running surfaces, 8 tracks
F	Platform extension of wheel-free jack	Clean the platform extension thoroughly, then apply an appropriate grease.	surfaces of platform extension	4 platform extensions

7.3 Rust Prevention

a) Always keep the painted surfaces dry and clean.

Permanent contact with liquids must be avoided.

Wipe any spilled liquids off platforms immediately.

Promptly remove debris and deposits known to damage to the paint and cause rust (e.g., de-icing salt, sand/soil/grit, industrial dust, aggressive deposits).

Cleaning Method

Use only lukewarm water with standard washing-up liquid or a mild, non-aggressive detergent. Apply with a sponge or soft brush.

Rinse thoroughly to remove all detergent residue.

Never use high-pressure jet washers, steam cleaners, abrasive cleaners, or chemical products.

Immediately dry the lift completely using a suitable cloth. Spray lightly with a wax-based or oil-based protective spray.

b) Regularly inspect the paintwork.

Avoid allowing sharp or hard metal components to scrape or impact the painted surfaces.

Avoid placing overheated light sources in proximity to the painted surfaces.

Deep scratches or damaged areas must be repaired promptly to prevent water ingress accelerating oxidation and rust formation.

Epoxy resin paint is recommended for repairs.

Damage (e.g., rust, fading) resulting from incorrect, poor maintenance or cleaning method is not covered by guarantee.

Consistent adherence to these maintenance requirements promotes optimal lift performance, enhances operational safety, and maximizes service life. Damage resulting from incorrect and poor maintenance is not covered by guarantee.

Annex 1, Floor plan

Concrete base specification

The base must be a single, solid pour of concrete to prevent weak joints.

Minimum compressive strength of 30MPa (C30). Minimum thickness of 200 mm.

Newly poured concrete shall cure for at least 20 days prior to lift installation.

Surface levelness

The installation surface must be horizontal and even.

The maximum gradient under the entire base area must not exceed 0.5%.

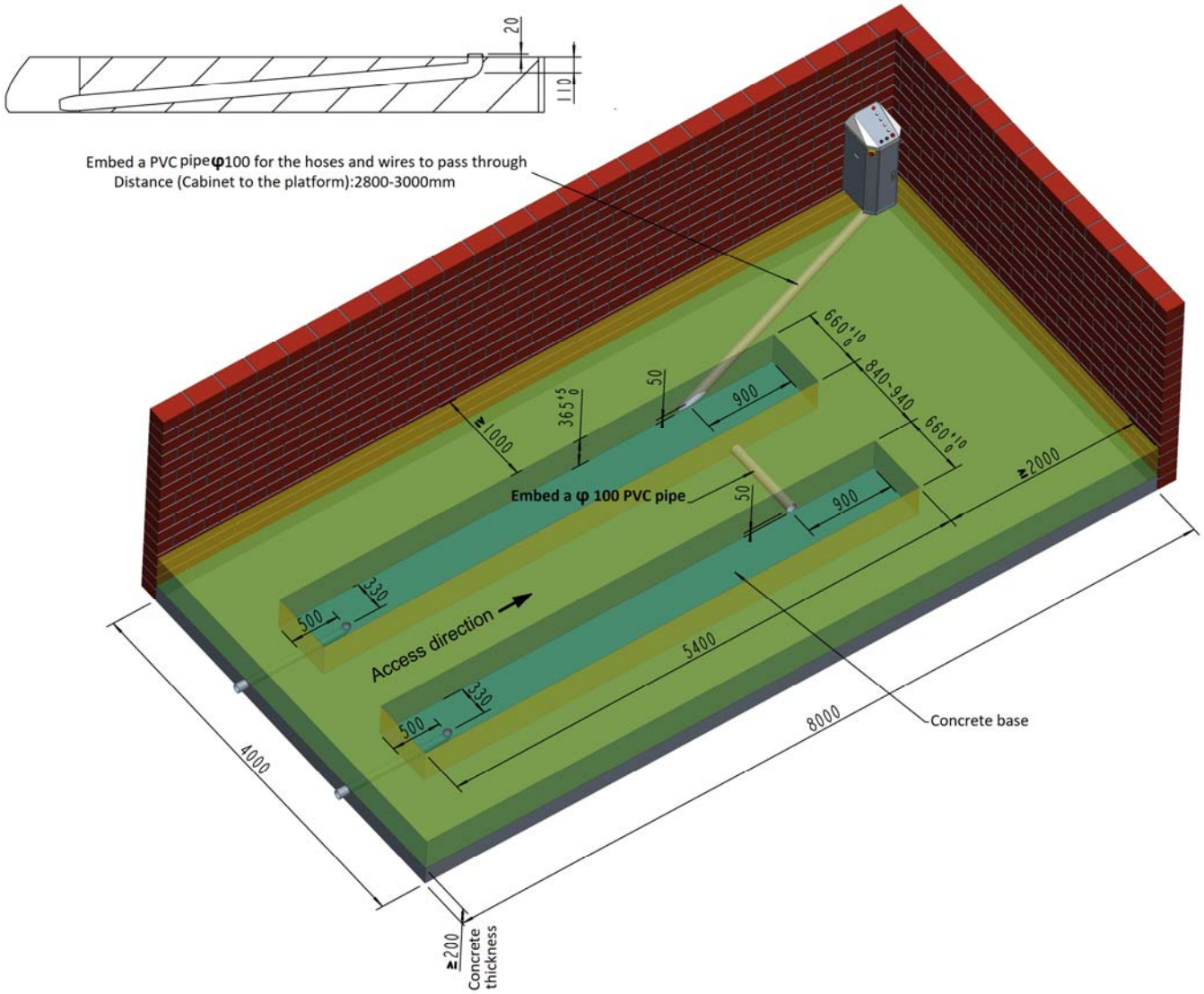
Pit edging

The edge around the top of the pit is recommended to be fully framed with L40x40 angle iron.

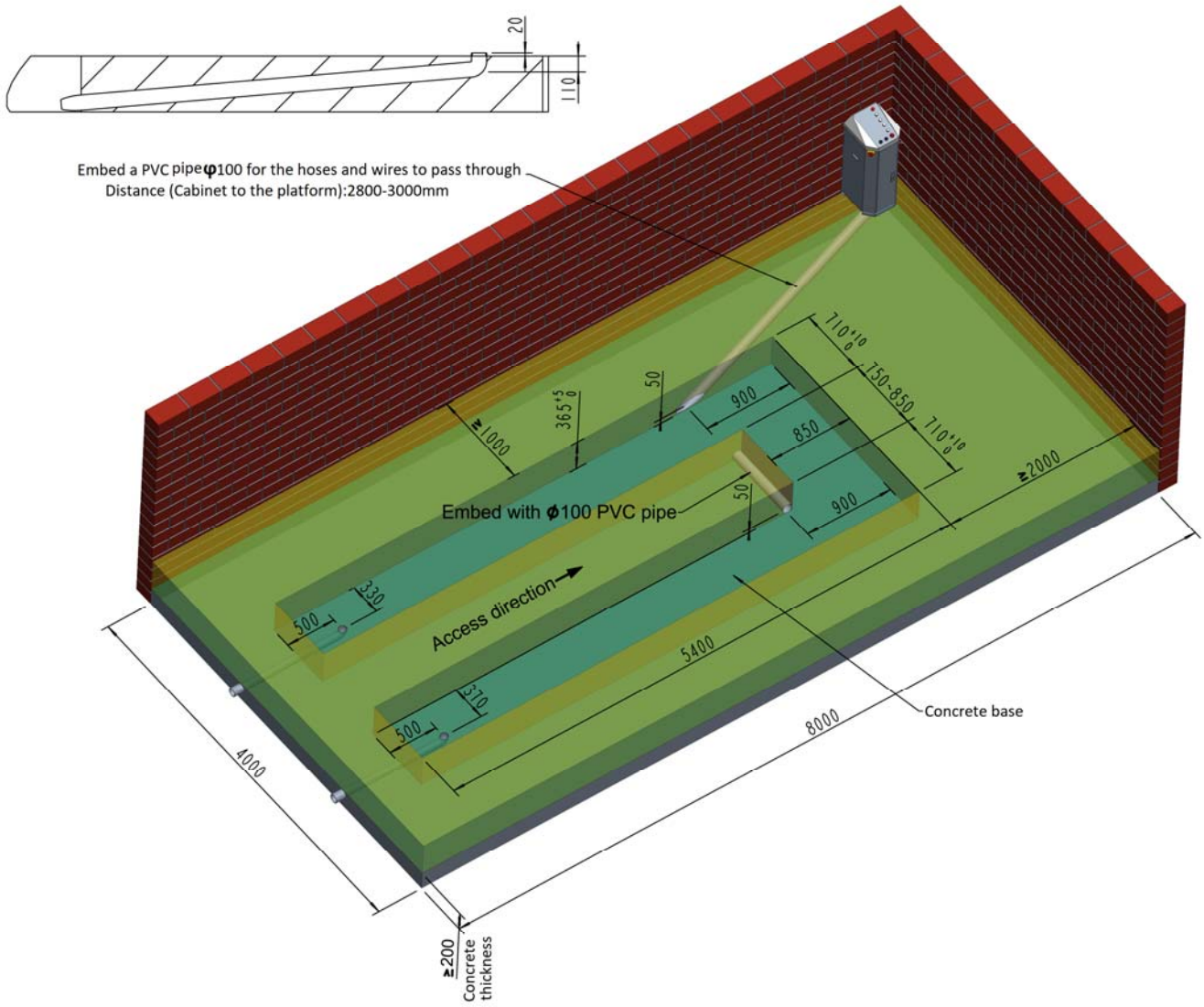
Drainage requirement

If a connection to a main sewer line is not possible, a sump pit shall be constructed to collect water.

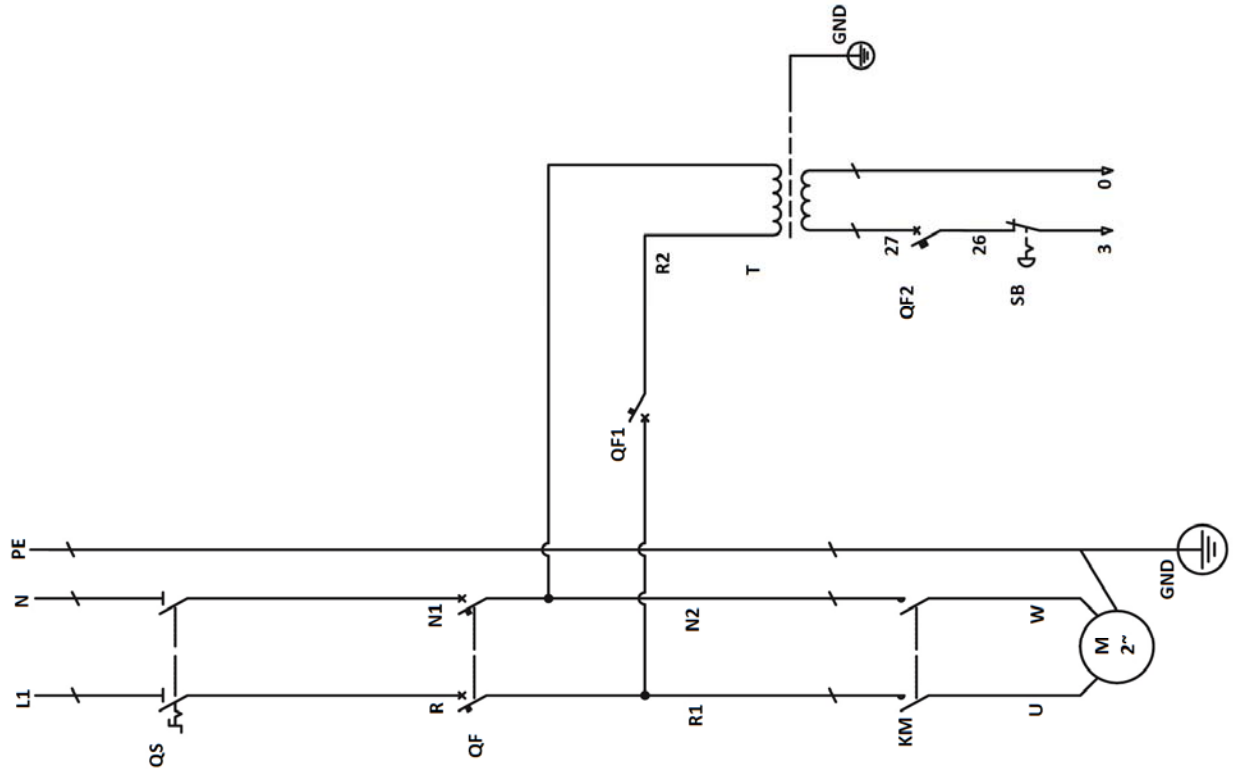
Strip floor plan for flush mounting- 53L without tracks for a rolling jack

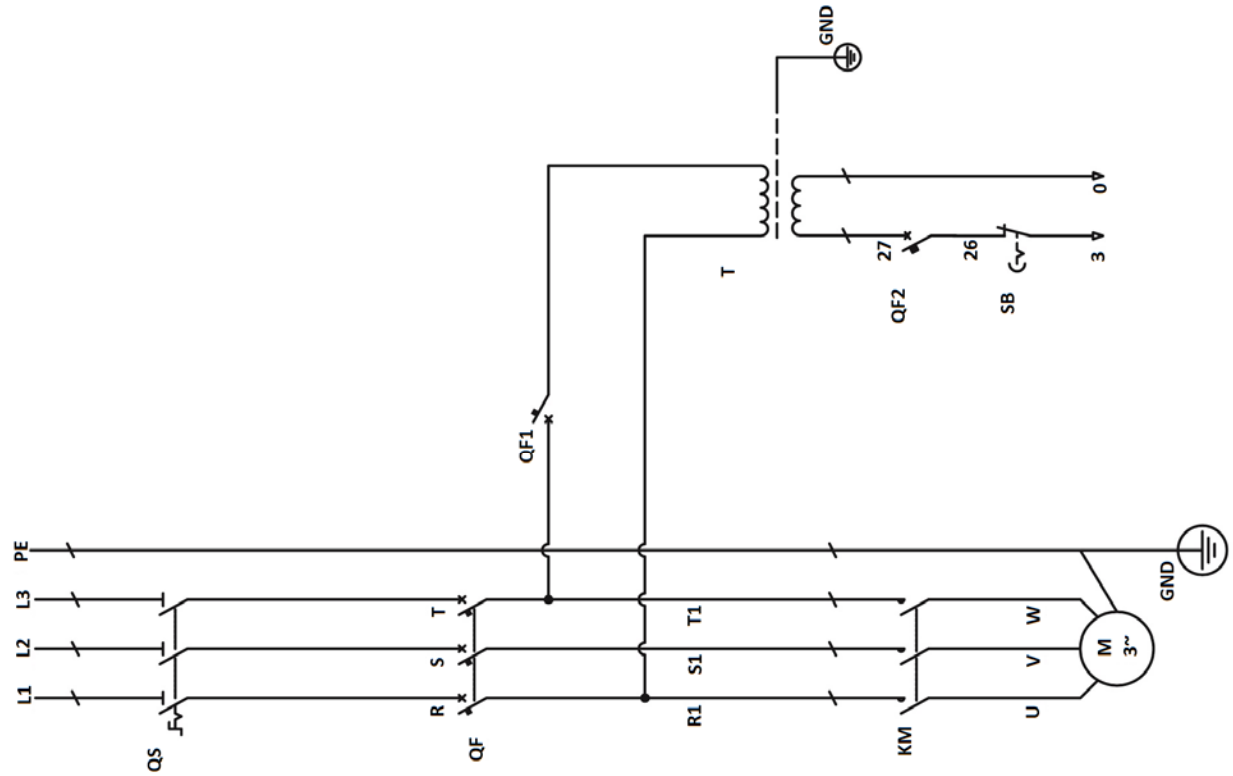


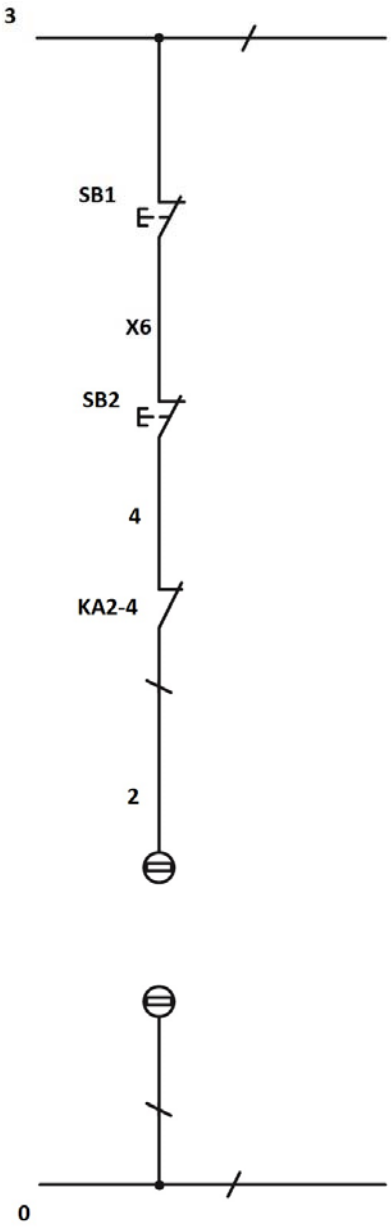
Strip floor plan for flush mounting- 53L with tracks for a rolling jack

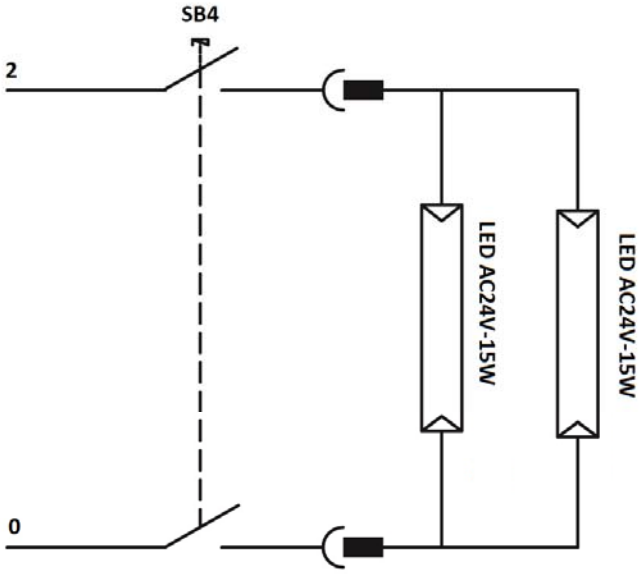


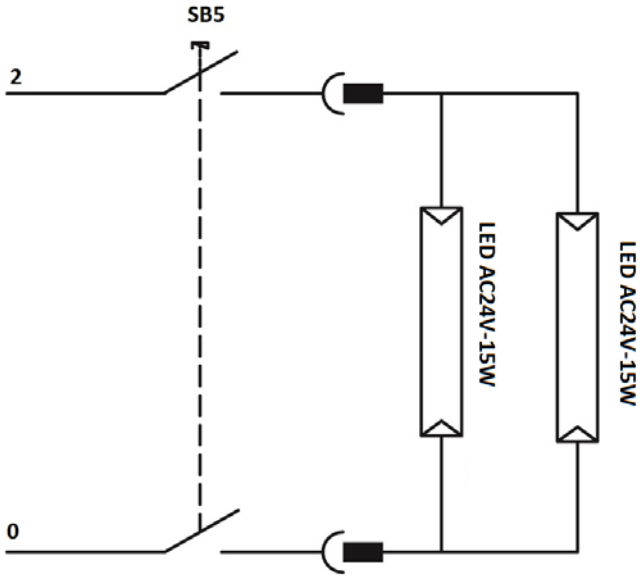
Annex 2, Electrical schemes and parts list

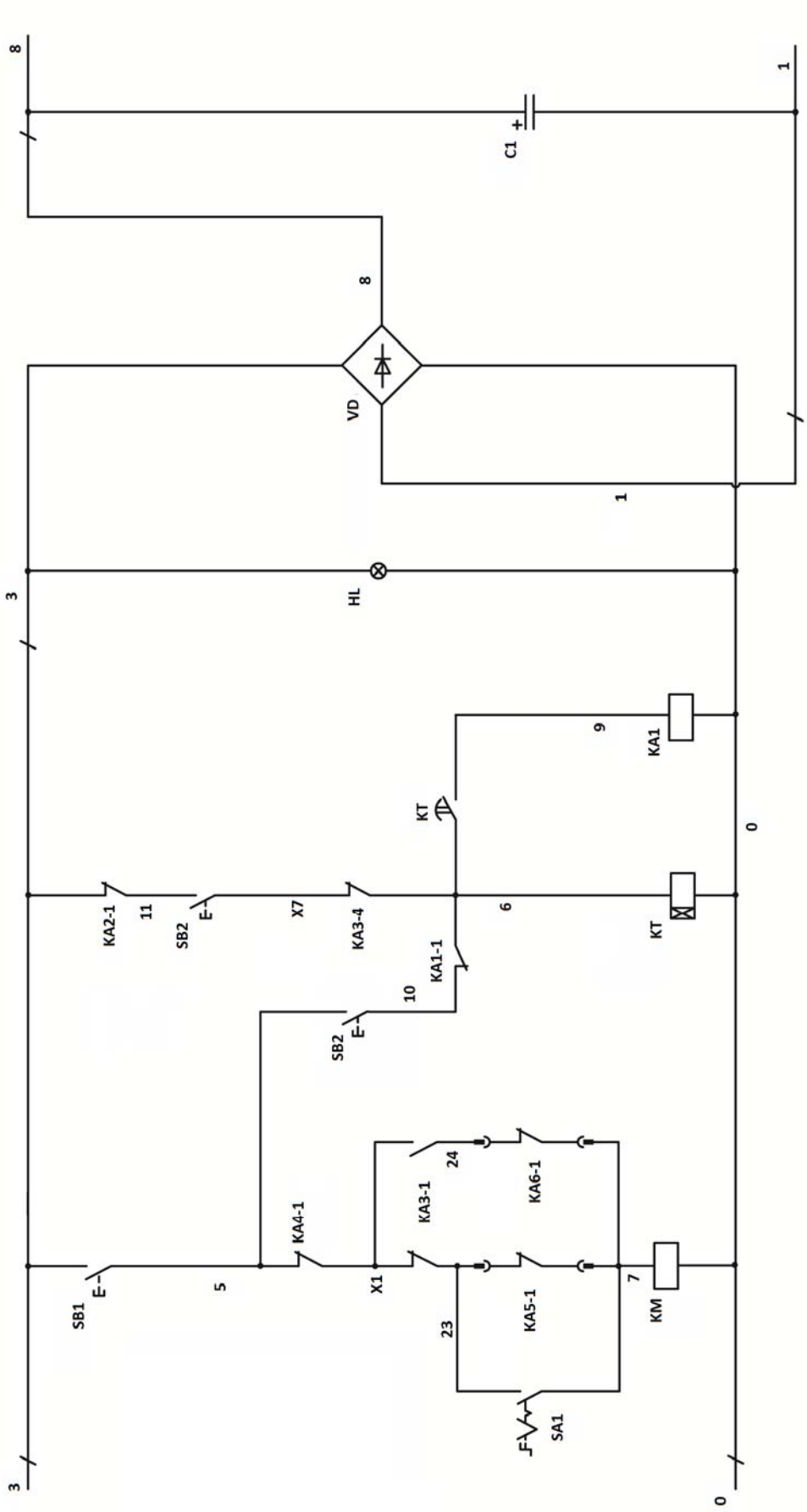


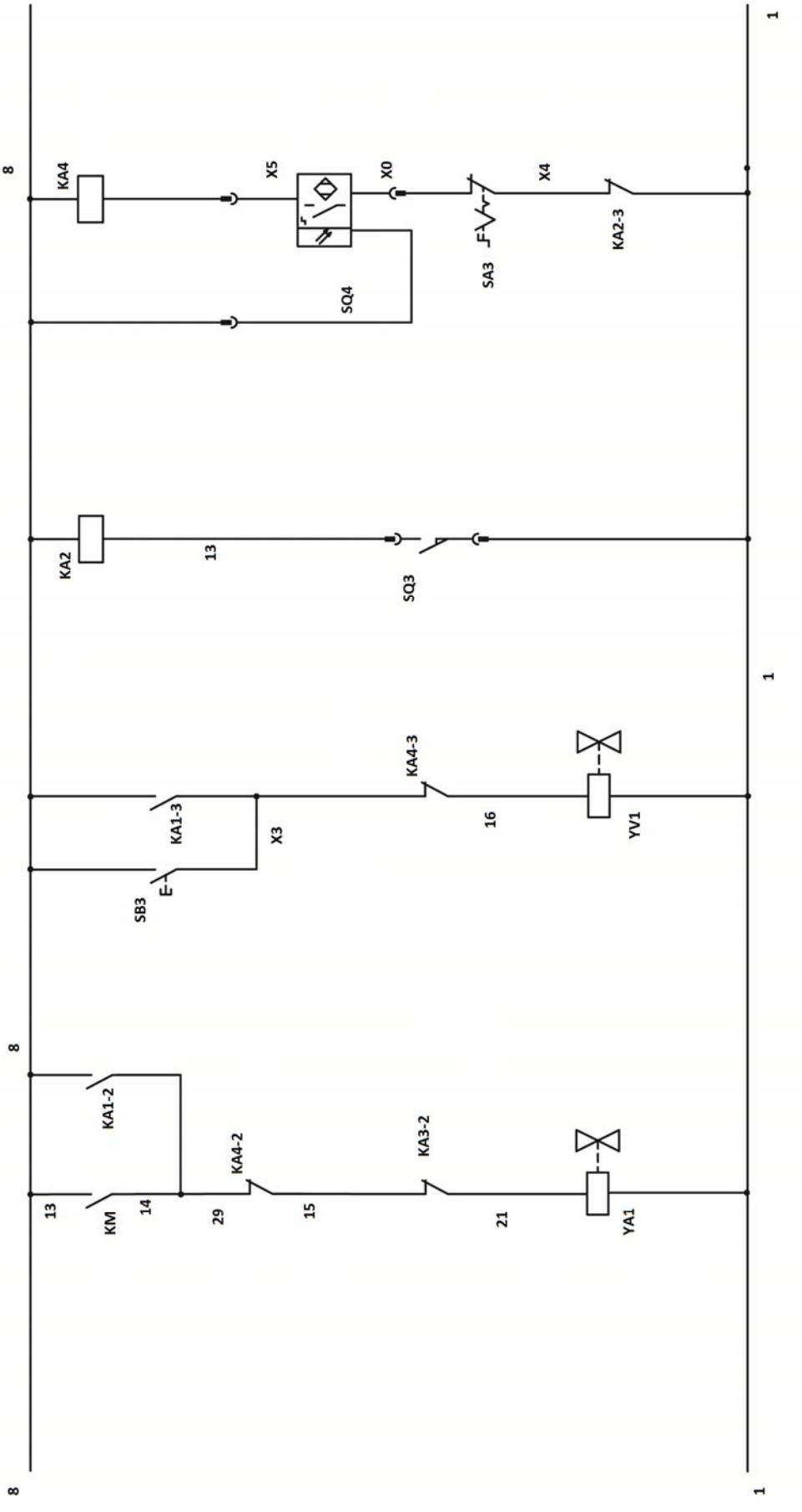


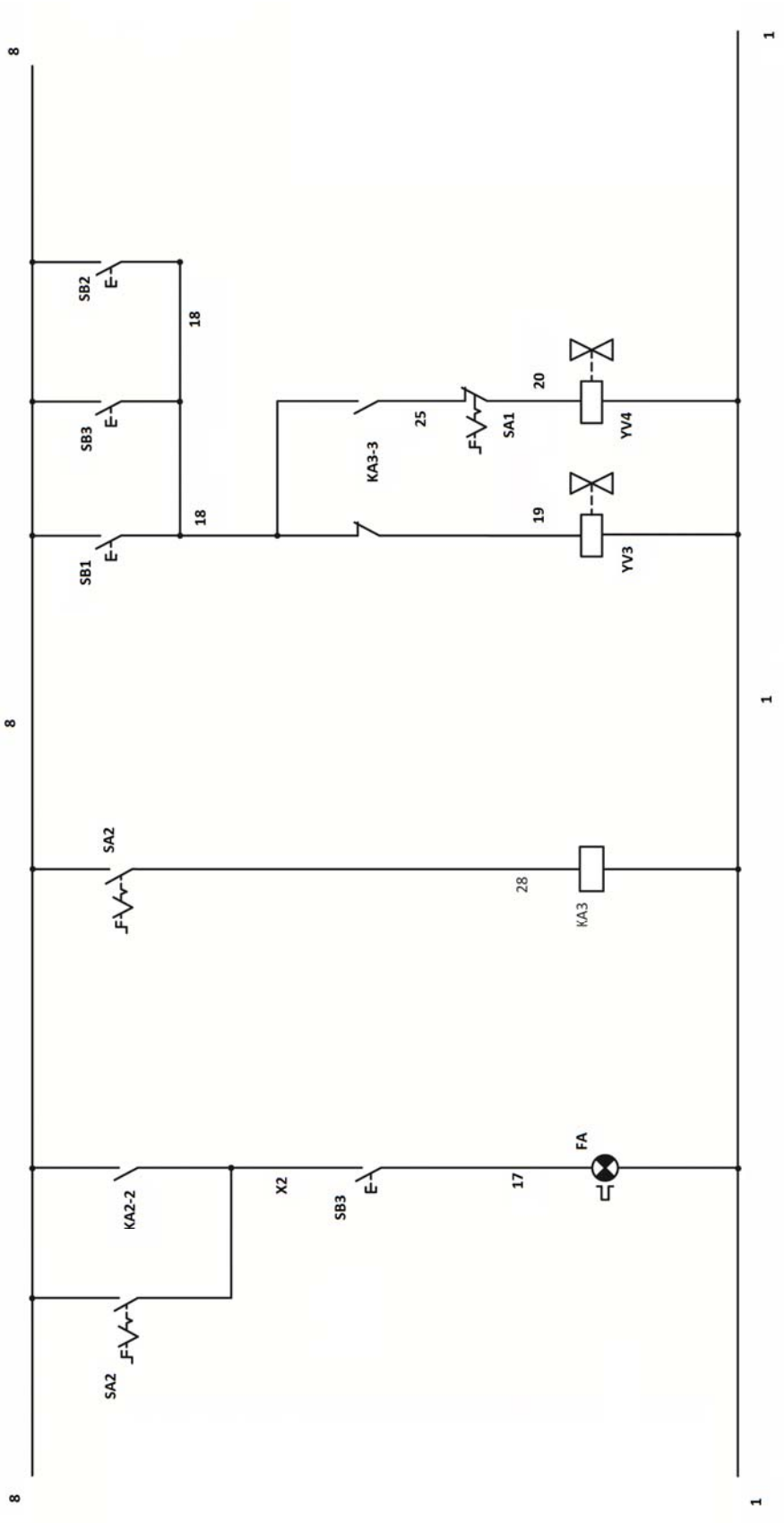

3
SB1
X6
SB2
4
KA2-4
2
0

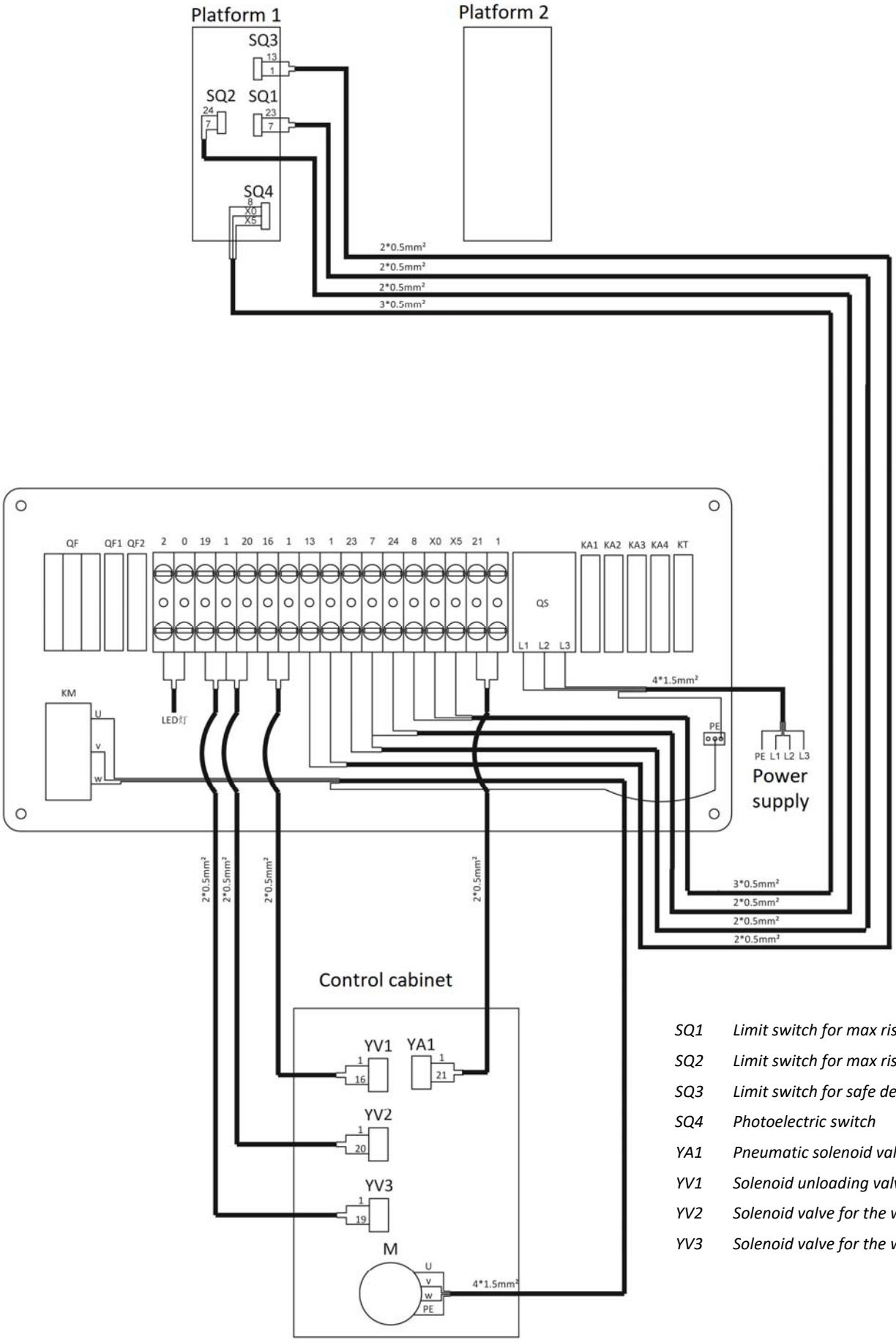

SB4
2
0
LED AC24V-15W
LED AC24V-15W


SB5
2
0
LED AC24V-15W
LED AC24V-15W


8
1
C1
8
VD
1
3
HL
9
KA1
KT
0
KA2-1
11
SB2
X7
KA3-4
6
KT
KA1-1
10
SB2
KA3-1
24
KA6-1
KA4-1
SB1
5
X1
7
KM
23
KA5-1
SA1
3
0


8
1
KA4
X5
X0
X4
SA3
KA2-3
SQ4
KA2
13
SQ3
KA4-3
KA1-3
X3
16
YV1
SB3
KA1-2
KA4-2
KA3-2
13
KM
14
29
15
21
YA1


8
1
SB2
E-
18
SB3
E-
KA3-3
25
SA1
20
YV4
SB1
E-
18
19
YV3
8
1
SA2
28
KA3
FA
KA2-2
X2
SB3
E-
17
SA2
8
1



SQ1 *Limit switch for max rise (WS)*

SQ2 *Limit switch for max rise (WF)*

SQ3 *Limit switch for safe descent*

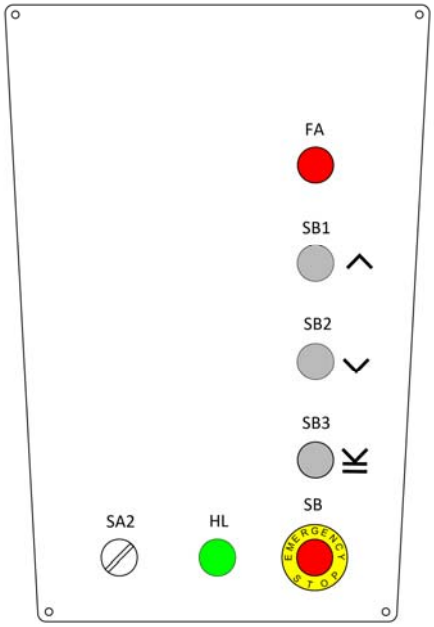
SQ4 *Photoelectric switch*

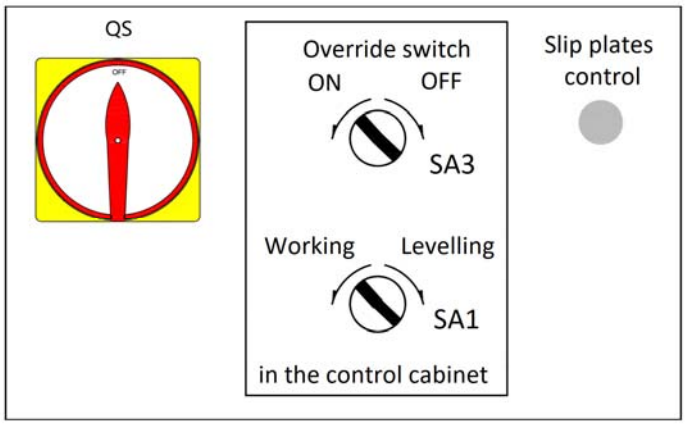
YA1 *Pneumatic solenoid valve(WS)*

YV1 *Solenoid unloading valve*

YV2 *Solenoid valve for the wheel-free lift*

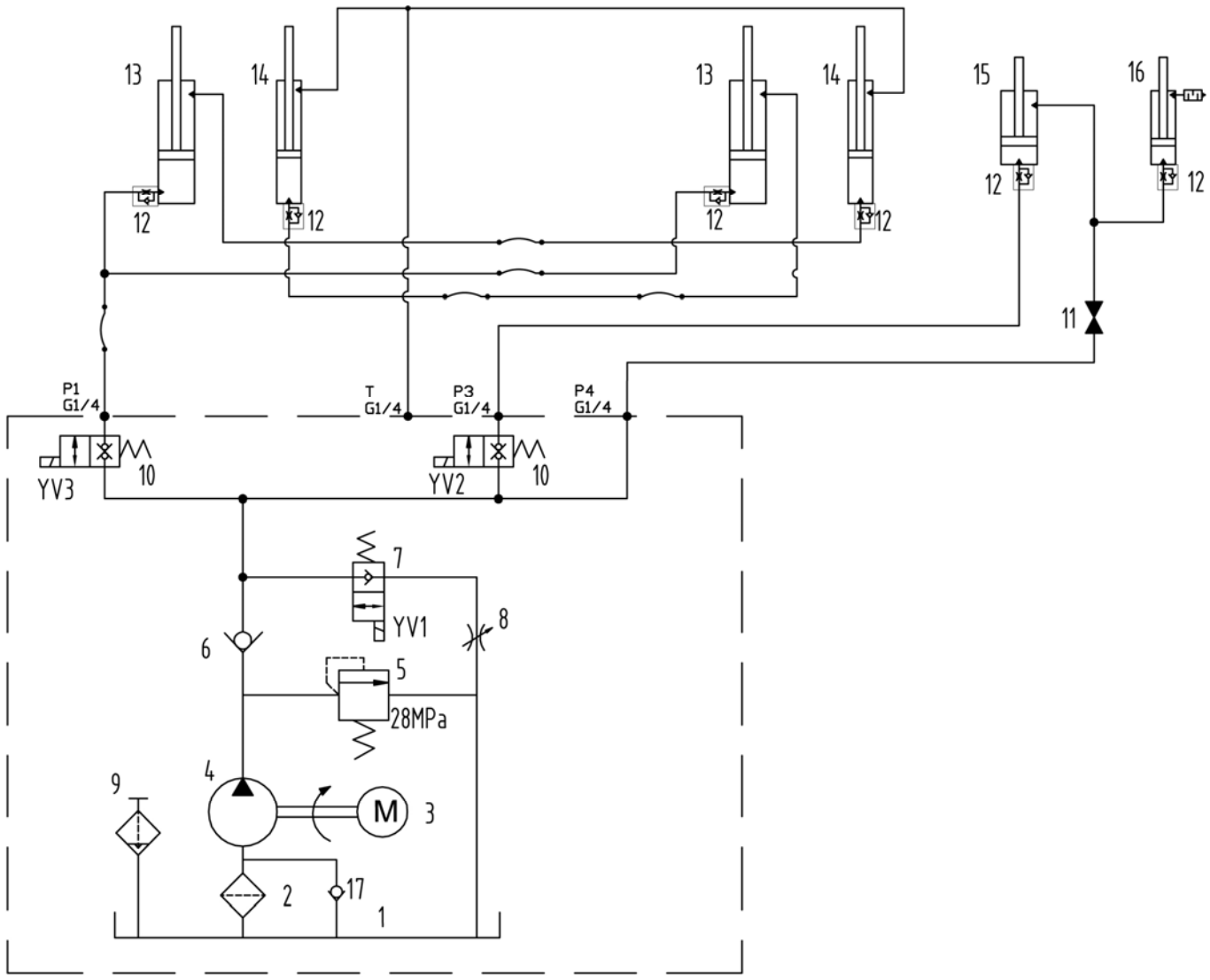
YV3 *Solenoid valve for the wheel-support lift*





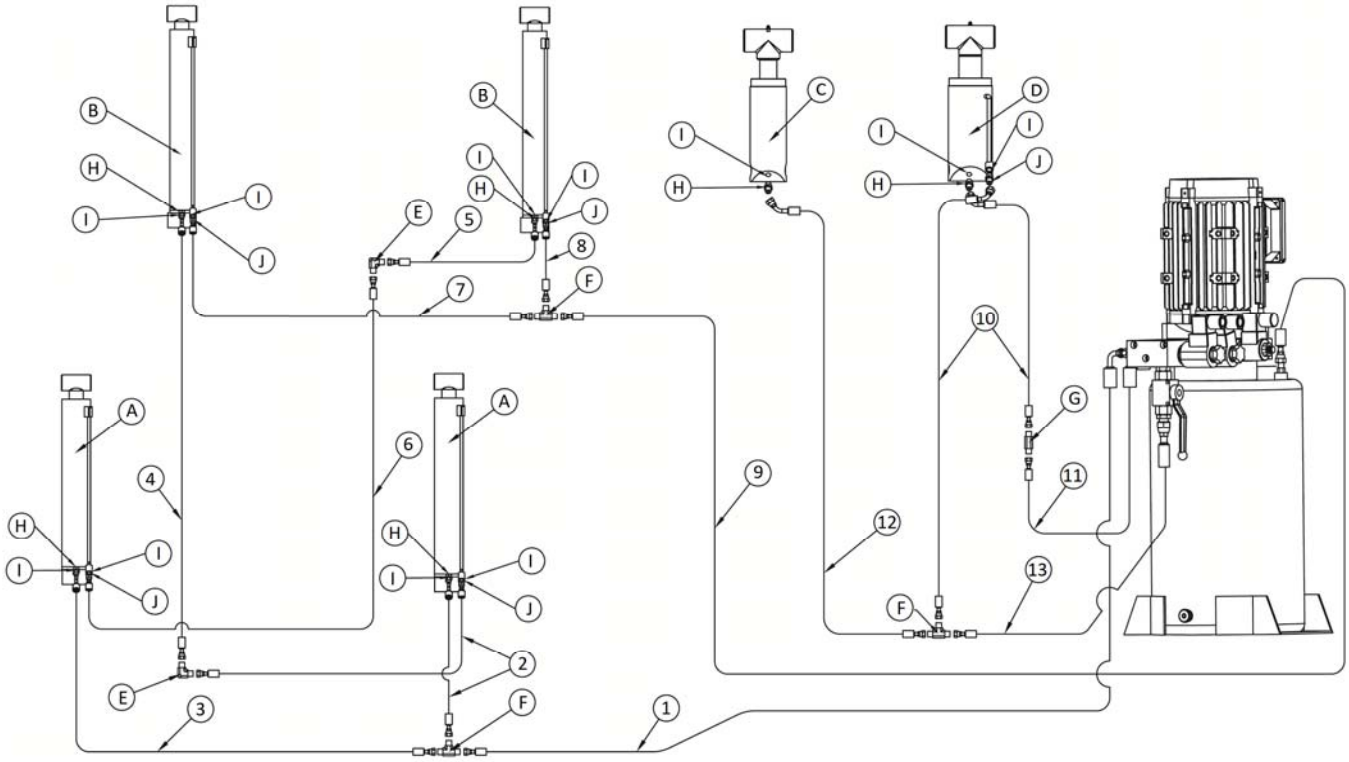
Code in the scheme	P-code	Description	Specification	Qty
T	320101128	Transformer	JBK5-100VA 380V400V415V-24V	1
QF	320801001	Circuit breaker	CDB6iC16/3P (CB-60A C16)	1
QF1	320803001	Circuit breaker	CDB6iC1/1P (CB-60A C1)	1
QF2	320803005	Circuit breaker	CDB6iC6/1P(CB-60A C6)	1
KM	320901011	AC contactor	CJX2-1810/AC24V(CDC6i-1810/AC24V)	1
SQ1, SQ2, SQ3	320301011	Limit switch	TZ8108	3
SQ4	320307062	Photoelectric switch	KJT-FJ18-Z-NK-Y	1
SB	320402002	Stop button	NP2-BS542(CDLA6H-BS542)	1
SB1, SB2, SB3	320401044	Button	NP2-EA19（CDLA6H-EA19）	3
SA1, SA3	320303019	Selection switch	NP2-ED25C	2
SA2	320303018	Selection switch	NP2-ED23C	1
QS	320304001	Power switch	LW26GS-20-04	1
KA1	320601002	Relay	HH54P-L/AC24V(MY4NJ) (ZYR1-MY4L)	1
KA2, KA3, KA4	320601001	Relay	HH54P-L/DC24V（MY4NJ) (ZYR1-MY4)	3
	320601011	Relay holder	PYF-14A-E (RS-NXJ-4Z/C2 7A 250AC)	4
	320601018	Relay fixer		8
KT	320602009	Time relay	CDJS8 0.5s-100h AC/DC24V	1
C	321001004	Capacitor	4700UF/50V	1
VD	321002001	Bridge rectifier	KBPC5A-35A	1
HL	321201001	Indicating lamp	ND16-22DS-2	1
FA	321202001	Alarm buzzer	AD118-22SM/R/AC/DC/24V	1
SB4, SB5	320307034	Metal button	LANB00	2
	320505020	Wire terminals	TB-1504	4
	321201038	Led lamp (53L without tracks)	AC/DC24V-15W	4
	321201021C	Led lamp (53LC with tracks)	AC24-15W-16cm	4

Annex 3, Hydraulic schemes and parts list



1	Oil tank	11	Manual levelling valve
2	Filter	12	Cylinder connector with restrictive valve
3	Motor	13	Master cylinder (WS)
4	Gear pump	14	Slave cylinder (WS)
5	Relief valve	15	Master cylinder (WF)
6	Non-return valve	16	Slave cylinder (WF)
7	Solenoid unloading valve assembly	17	Cushion valve
8	Restrictive valve		
9	Oil tank lid		
10	Solenoid valve		

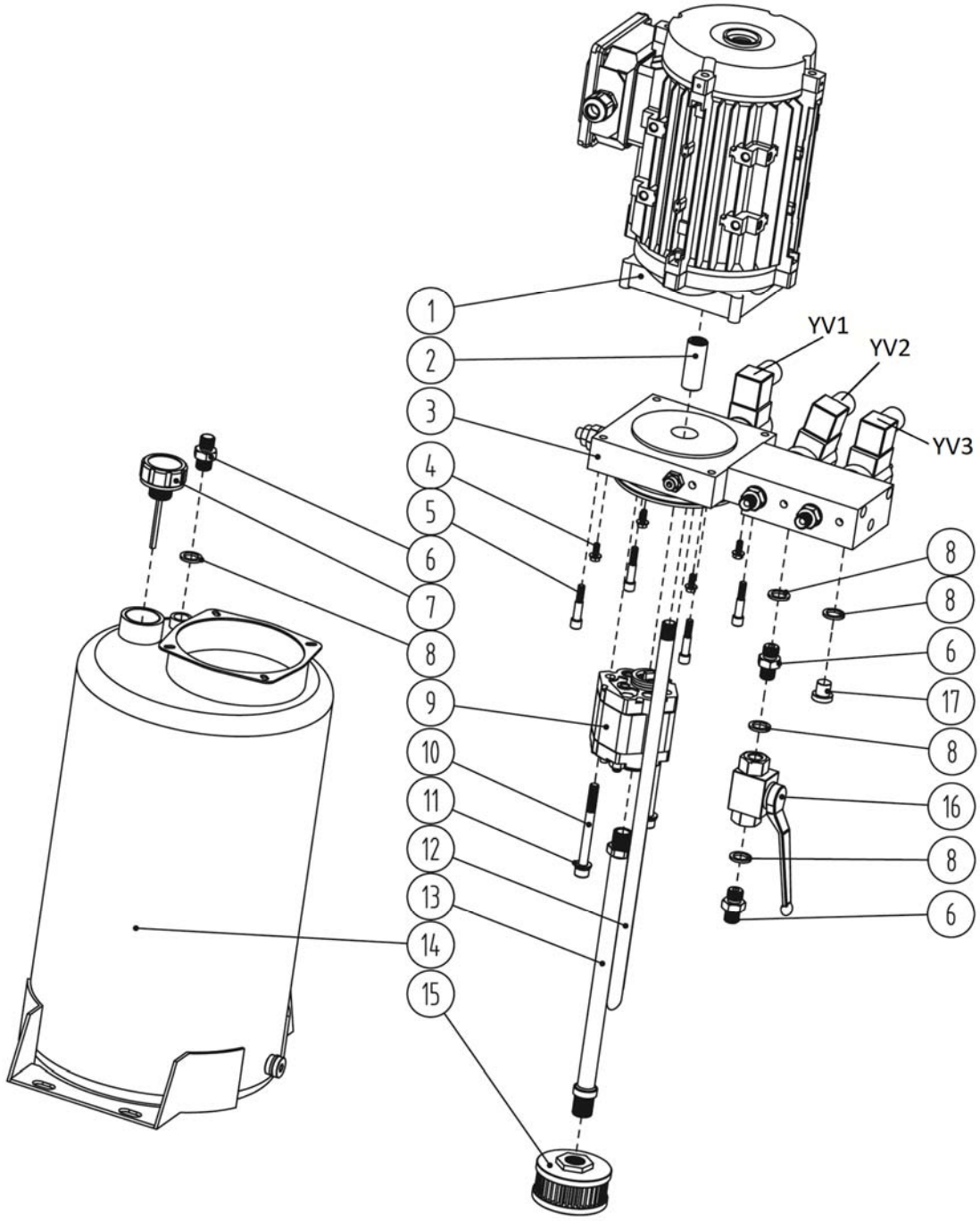
The following hydraulic lines are for the control cabinet positioned on the left side (when facing the cabinet at the rear end of the platform).



Pos.	Code	Component descriptions	Specification	Qty
1	624008135	Oil hose	L=4500mm	1
2	624008337	Oil hose	L=650mm	2
3	624008338	Oil hose	L=2000mm	1
4	624008339	Oil hose	L=5500mm	1
5	624008340	Oil hose	L=3800mm	1
6	624008341	Oil hose	L=1800mm	1
7	624008342	Oil hose	L=5200mm	1
8	624008343	Oil hose	L=3800mm	1
9	624008344	Oil hose	L=5000mm	1
10	624008161	Oil hose	L=6660mm	2
11	624008203	Oil hose	L=4500mm	1
12	624008345	Oil hose	L=8100mm	1
13	624008174	Oil hose	L=4500mm	1
A	625000057	Master cylinder (WS lift)	YG90-102-50-646-850	2
B	625000058	Slave cylinder (WS lift)	YG75-85-55-646-850	2
C	615026702	Slave cylinder (WF jack)	HX6-SSCYL	1
D	615026701	Master cylinder (WF jack)	HX6-SMCYL	1
E	310102034	Straight connector	ELC-G1/4 I60-G1/4 I60	2

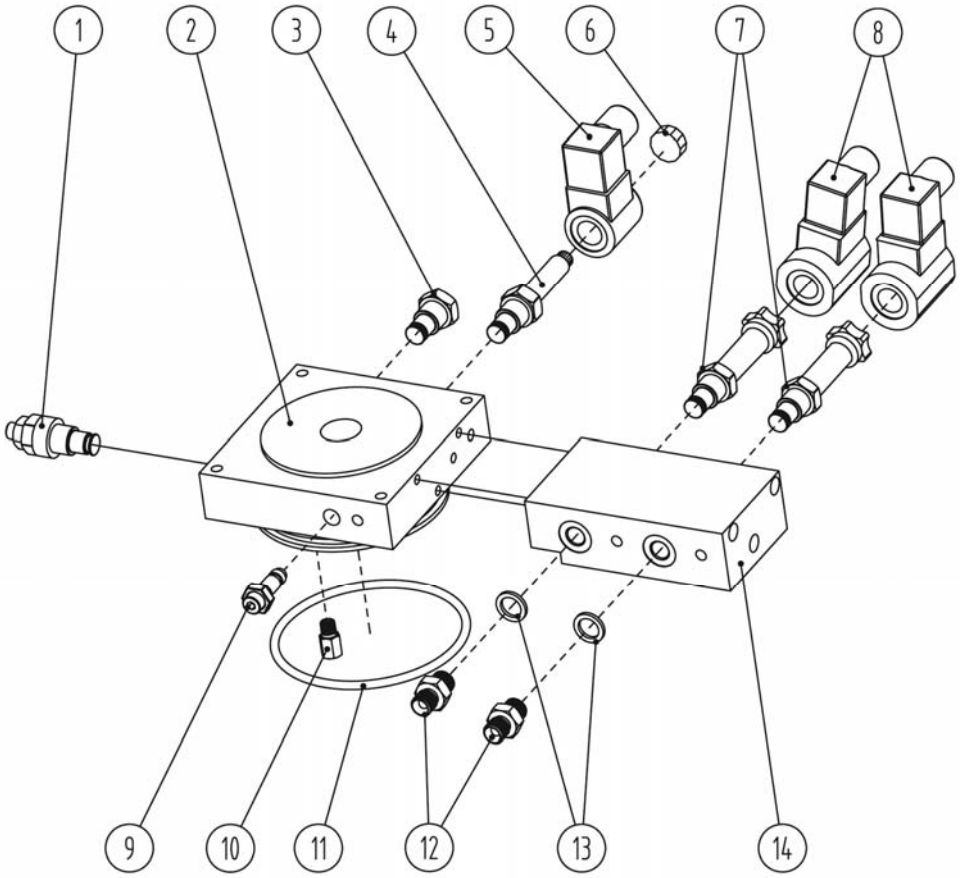
Pos.	Code	Component descriptions	Specification	Qty
F	410210181	Three-way connector	6603B-A9-B7	3
G	410210191	Straight connector	6603B-A9-B8	1
H	330305009	Straight connector with restrictive valve	BDPF-G14-G14-I60	6
I	207103025	Composite washer	13_7X20X1_5	11
J	310101010	Straight connector	G1/4---G1/4	5

Power unit



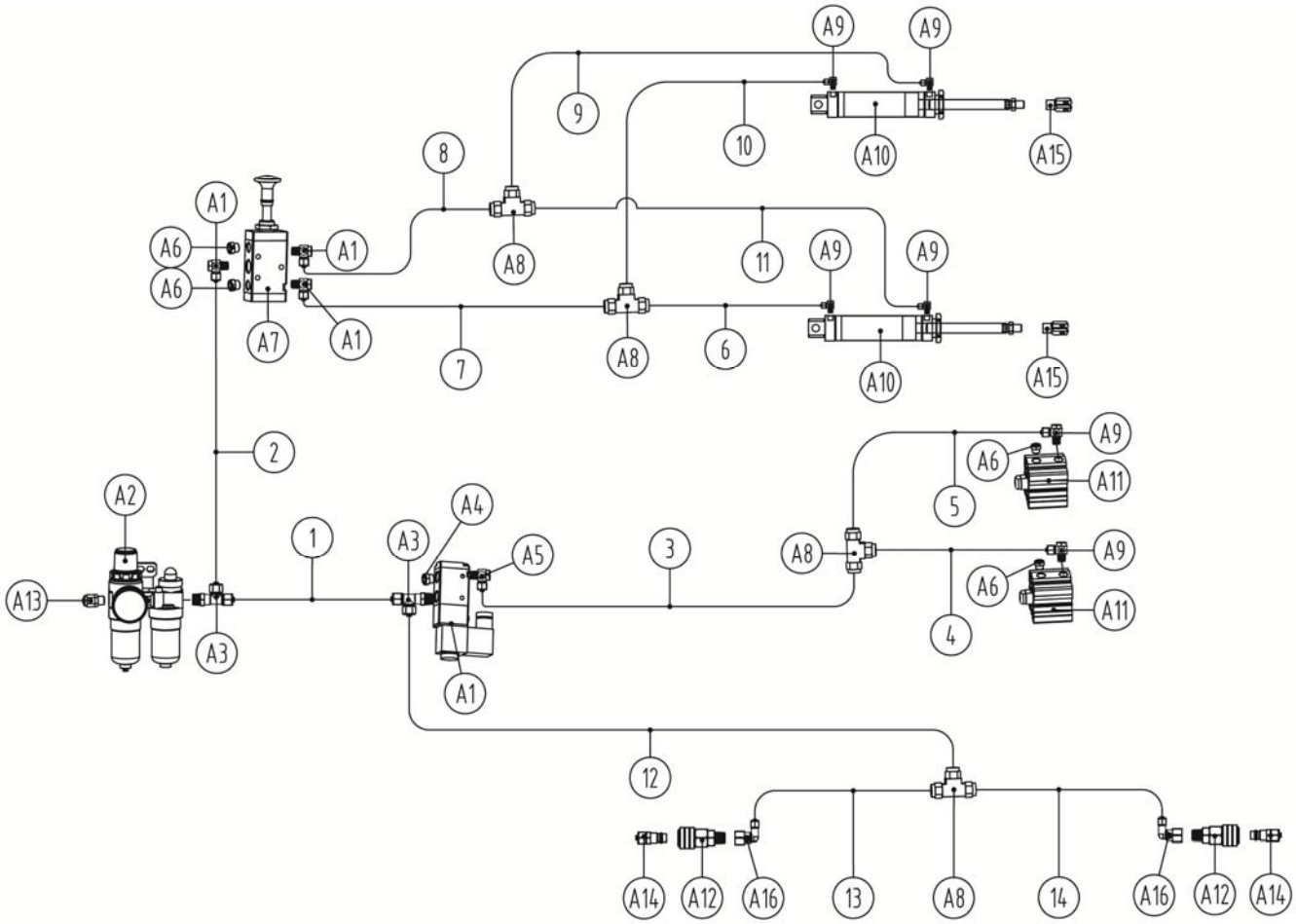
Pos.	Code	Component descriptions	Specification	Qty
1	320203001	Motor	380V-3.5kW-3Ph-50Hz-2P	1
2	330404001	Coupling	YL-A(L=46mm+1) (LBZ-T202BK-1)	1
3	330101009	Valve assembly	YF-8	1
4	201102002	Hex head full threaded bolt	M5x10-GB5781	4
5	202109064	Hex socket cylinder head screw	m6X35-M5X11	4
6	310101010	Straight connector	G1/4---G1/4	3
7	330502009	Oil tank lid	For 18L oil tank	1
8	207103025	Composite washer	13_7X20X1_5	5
9	330201015	Gear pump	CBK-F233-G	1
10	202109072	Hex socket cylinder head screw	M8x85-GB70_1	2
11	204101005	Flat washer	D8-GB95	2
12	330402001	Oil-back pipe	YH-D（L=270, ZG1/4）	1
13	330401005	Oil-sucking pipe	XYGN-L293, L=293mm	1
14	330405027	Steel oil tank	18L	1
15	330403001	Filter	YG-C	1
16	330307001B	Manual valve	GE2G1/4'', 111AB-DN6PN500	1
17	210101004	Hex socket flat head fitting	G1/4	1

Valve assembly (Pos.3 in the power unit exploded scheme)



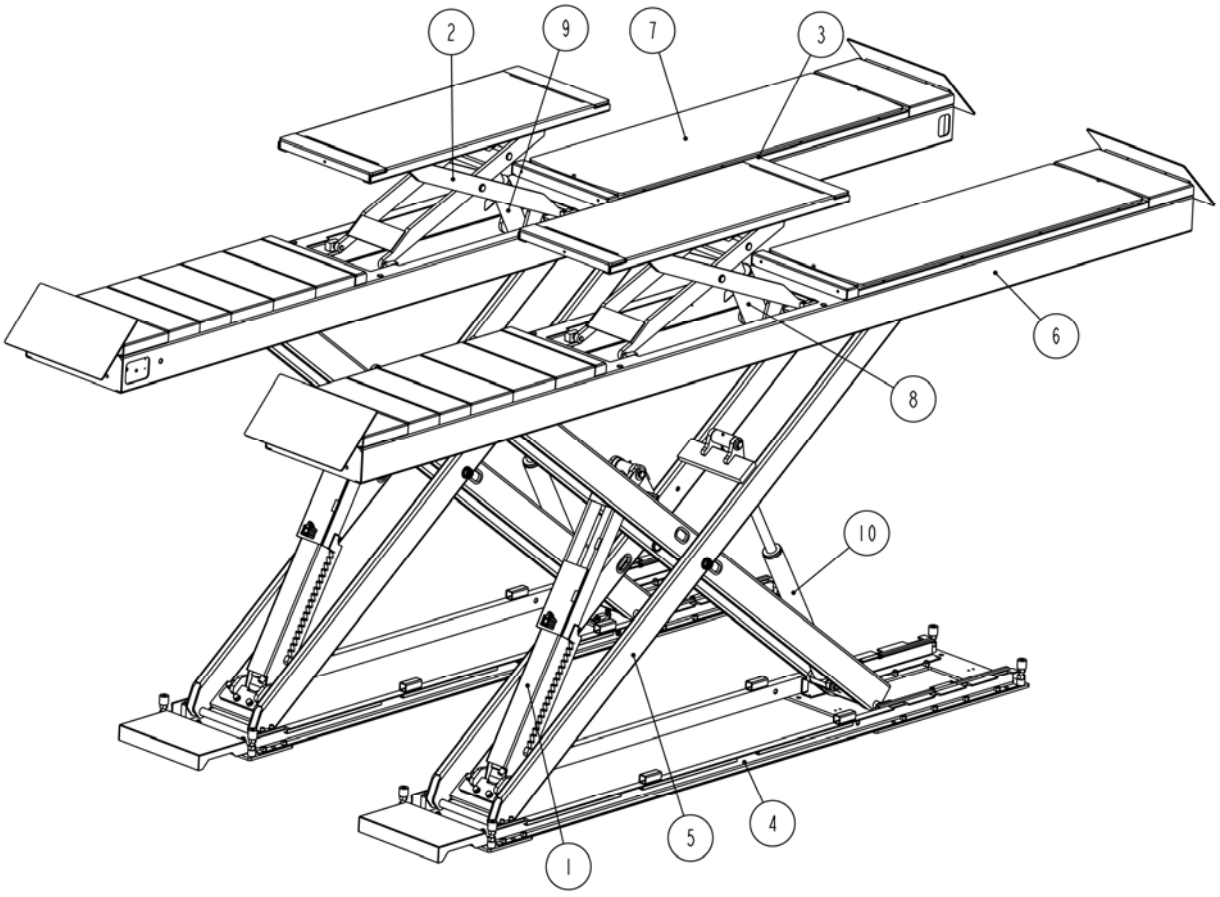
Pos.	Code	Component descriptions	Specification	Qty
1	330304015	Relief valve	RV-08-36	1
2	330105059	Valve block	LA10091	1
3	330302006	Non-return valve	DF08-01-00	1
4	330308053	Valve spool	LSV2-08-2NCP-M	1
5	330308031	Coil (YV1)	LC2-0-C-2H,24VDC	1
6	330503036	Locking nut	YBZ5-F2.52/OOOIT1-05	1
7	330308040	Valve spool	LSV-08-2NCSP-LM	2
8	330308039	Coil (YV2&YV3)	HC-C-16-D24 (LC3-10-C-2H)	2
9	330305023	Restrictive valve (including locking nut)	M12X1	1
10	330304016	Cushion valve	M14*1.5	1
11	207101166	Type O seal ring	110*5	1
12	310101010	Straight connector	G1/4---G1/4	2
13	207103025	Composite washer	13_7X20X1_5	2
14	330105057	Valve block	LA10092	1

Annex 4, Pneumatic schemes and parts list



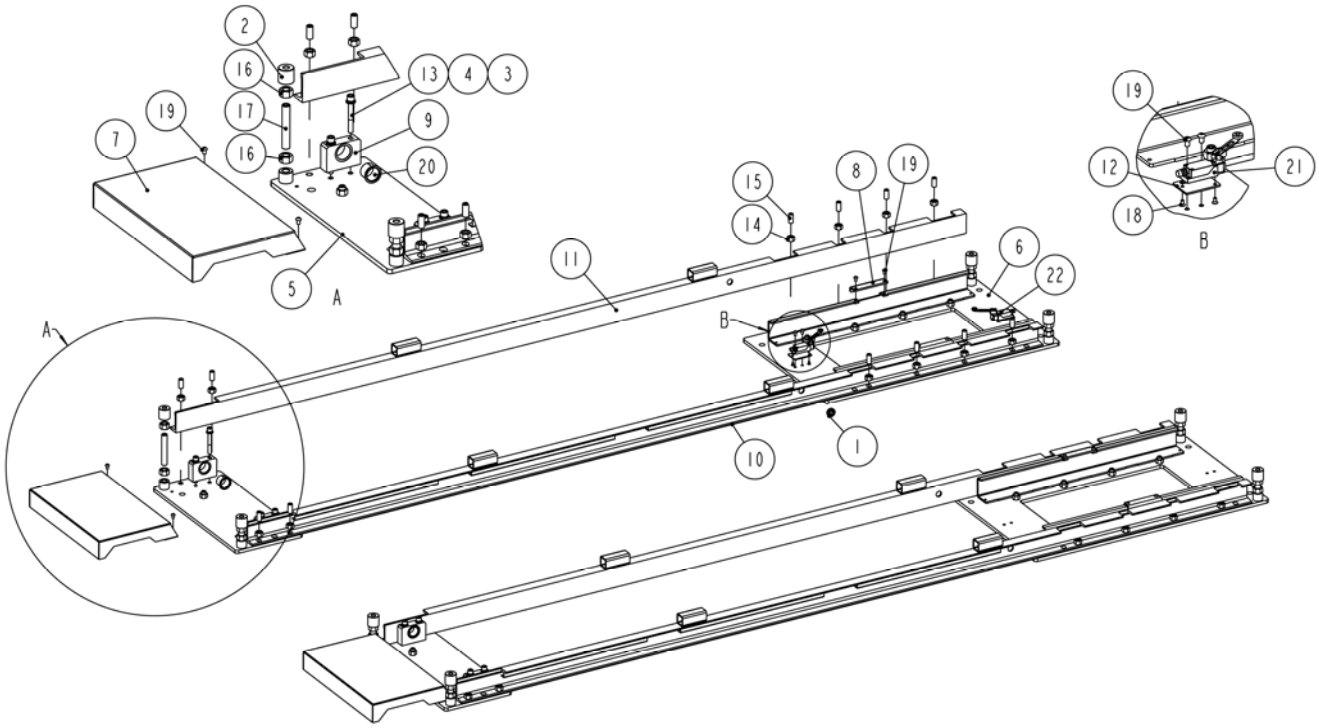
Pos.	Code	Component descriptions	Specification	Qty
1~14	123010101	Air hose	D=6	
A1	310302004	Air hose connector	TKN-PH6-02	4
A2	321004006	Air filter combination	AFC2000-M	1
A3	310103019	Side-Port elbow connector	TKN-PD6-02	2
A4	310201002	Silencer	SLM02-R1-4-M12	1
A5	310401001	Pneumatic solenoid valve	3V210-08DC24V	1
A6	310201003	Silencer	SLM01-R1-8	4
A7	330301002	Manual operated pneumatic valve	4L210-08	1
A8	310103005	T-fitting	KLE-6	4
A9	310302003	Elbow pneumatic connector	TKN-PH6-01	6
A10	310502001	Stainless steel air cylinder	MA40X100SCA	2
A11	310501001	Pneumatic cylinder	CQ2B32X20-A	2
A12	310301007	Female connector (C style)	SM20-SUS304	2
A13	310101015	Elbow pneumatic connector	KLC8-02(PT1/4) /TKN-PC8-02	1
A14	310101085	Male connector (C style)	PP20	2
A15	310304002	Y-connector	F-M12X125-Y	2
A16	330600010	Right angle connector	PLF6-02	2

Annex 5, Exploded drawings and parts list for the mechanical parts



Pos.	Code	Component descriptions	Specification	Qty
1	615803474	Master cylinder assembly	DX50-A4	2
2	615803475	Wheel-free jack	DX50-A5	2
3	615803476	Wheel-free platform	DX50-A6	2
4	615803487	Baseplate assembly (without track, 53L)	DX50-A1B	1
4	615803471	Baseplate assembly (with track for rolling jack, 53LC)	DX50-A1	1
5	615803464	Support arm assembly	DX50-A2-5T	2
6	615803488	Platform assembly A (without track, 53L)	DX50BWF-A3-53L	1
6	615803472	Platform assembly A(with track for rolling jack, 53LC)	DX50BWF-A3-53LC	1
7	615803489	Platform assembly B (without track, 53L)	DX50BWF-A3B-53L	1
7	615803473	Platform assembly B(with track for rolling jack, 53LC)	DX50BWF-A3B-53LC	1
8	615060140	Master cylinder of wheel-free jack	HX6-A5	1
9	615060150	Salve cylinder of wheel-free jack	HX6-A5B	1
10	625000058	Slave cylinder assembly	YG75-85-55-646-850	2

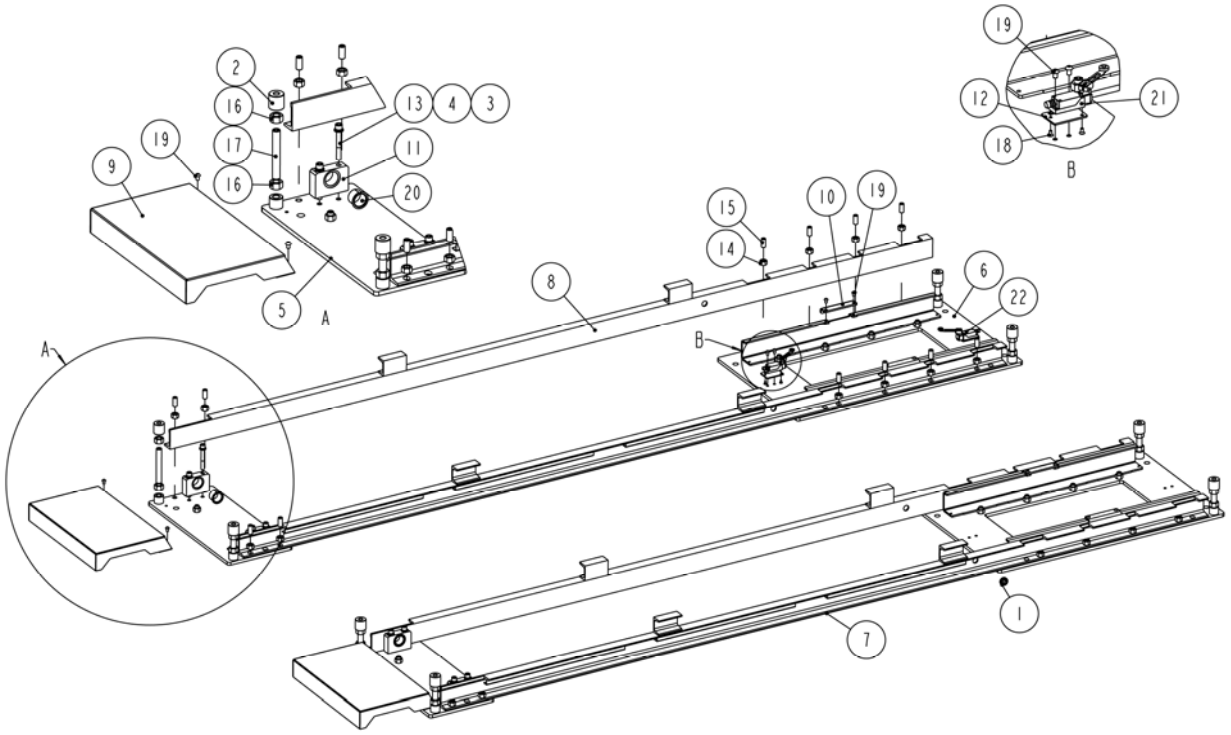
Baseplate- 53L



Pos.	Code	Component descriptions	Specification	Qty
1	420040020	Φ20protective ring	6254E-A22	1
2	420260010	Nylon block	6605B-A1-B8	8
3	204201006	Spring washer	D12-GB93	8
4	204101007	Flat washer	D12-GB95	8
5	614902205	Small base plate	DX50-A1-B1	2
6	614902218	Large base plate	DX50-A1-B2	2
7	614902198	Cover	DX50-A1-B5	2
8	410913340	Anti-overturning lower plate	DX50-A1-B9	4
9	410913341	Bottom support holder	DX50-A1-B10	4
10	614902246	Connecting slot beam A	DX50-A1B-B3	2
11	614902247	Connecting slot beam B	DX50-A1B-B4	2
12	410911381	Holding plate for limit switch	HX50-A1-B8	2
13	202109155	Hex socket cylinder head screw	M12X90-GB70_1	8
14	203101009	Hex nut	M16-GB6170	44
15	202205017	Flat head locking screw	M16X35-304-GB77	45
16	203101012	Hex nut	M20-GB6170	16
17	202205004	Flat head locking screw	M20X120-GB77	8
18	202111001	Hex socket flat head screw	M5X10-GB70_3	4
19	202110004	Hex socket button head screw	M8X12-GB70_2	16
20	205103012	Bearing	SF-1F-35310	4
21	320301011	Limit switch	TZ8108-DX50D1	1

Pos.	Code	Component descriptions	Specification	Qty
22	320301011	Limit switch	TZ8108-DX50D1	1

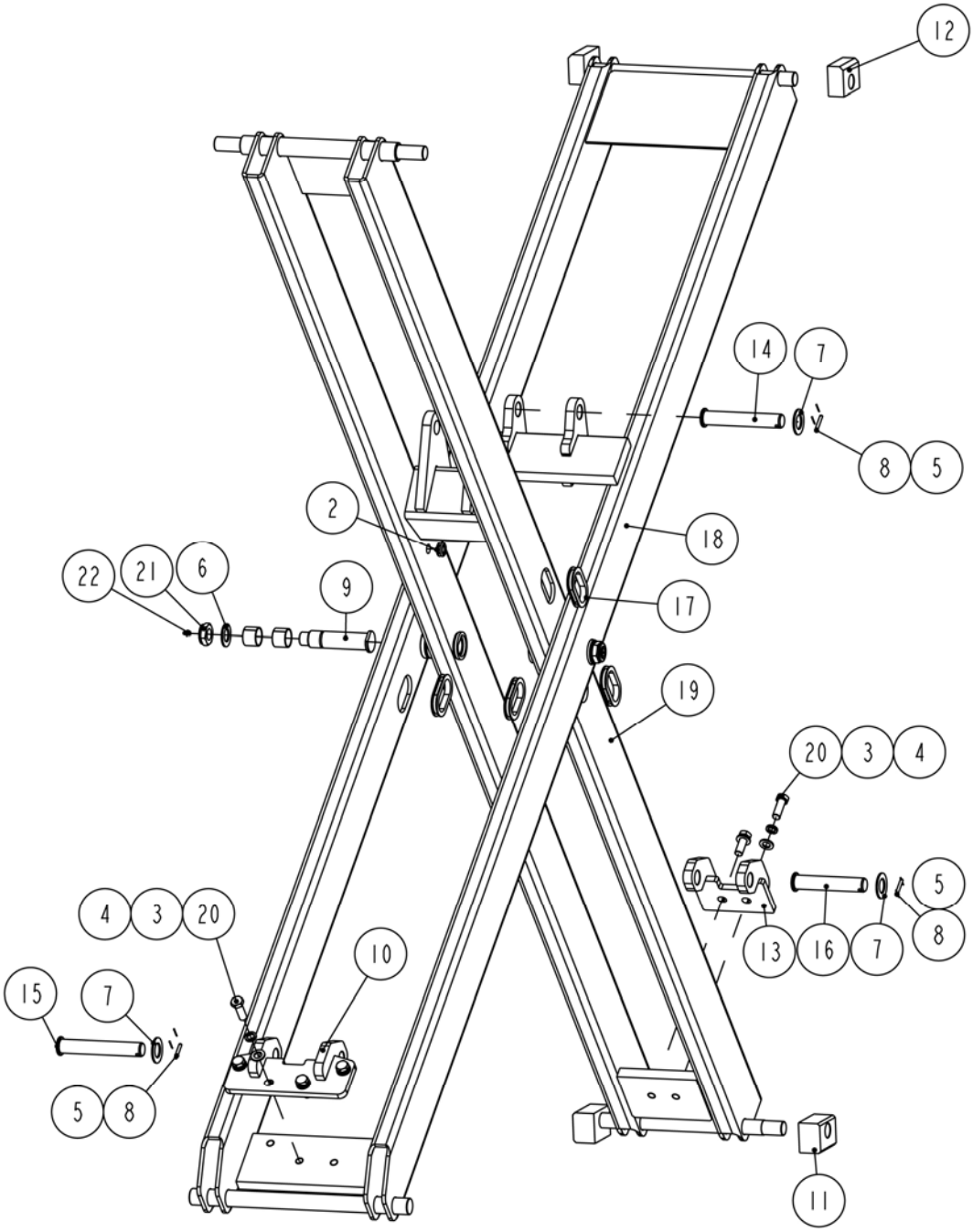
Baseplate assembly- 53LC



Pos.	Code	Component descriptions	Specification	Qty
1	420040020	Φ20 protective ring	6254E-A22	1
2	420260010	Nylon block	6605B-A1-B8	8
3	204201006	Spring washer	D12-GB93	8
4	204101007	Flat washer	D12-GB95	8
5	614902205	Small base plate	DX50-A1-B1	2
6	614902218	Large base plate	DX50-A1-B2	2
7	614902206	Connecting slot beam A	DX50-A1-B3	2
8	614902207	Connecting slot beam B	DX50-A1-B4	2
9	614902198	Cover	DX50-A1-B5	2
10	410913340	Anti-overturning lower plate	DX50-A1-B9	4
11	410913341	Bottom support holder	DX50-A1-B10	4
12	410911381	Holding plate for limit switch	HX50-A1-B8	2
13	202109155	Hex socket cylinder head screw	M12X90-GB70_1	8
14	203101009	Hex nut	M16-GB6170	44
15	202205017	Flat head locking screw	M16X35-304-GB77	45
16	203101012	Hex nut	M20-GB6170	16
17	202205005	Flat head locking screw	M20X140-GB77	8
18	202111001	Hex socket flat head screw	M5X10-GB70_3	4
19	202110004	Hex socket button head screw	M8X12-GB70_2	16

Pos.	Code	Component descriptions	Specification	Qty
20	205103012	Bearing	SF-1F-35310	4
21	320301011	Limit switch	TZ8108-DX50D1	1
22	320301011	Limit switch	TZ8108-DX50D1	1

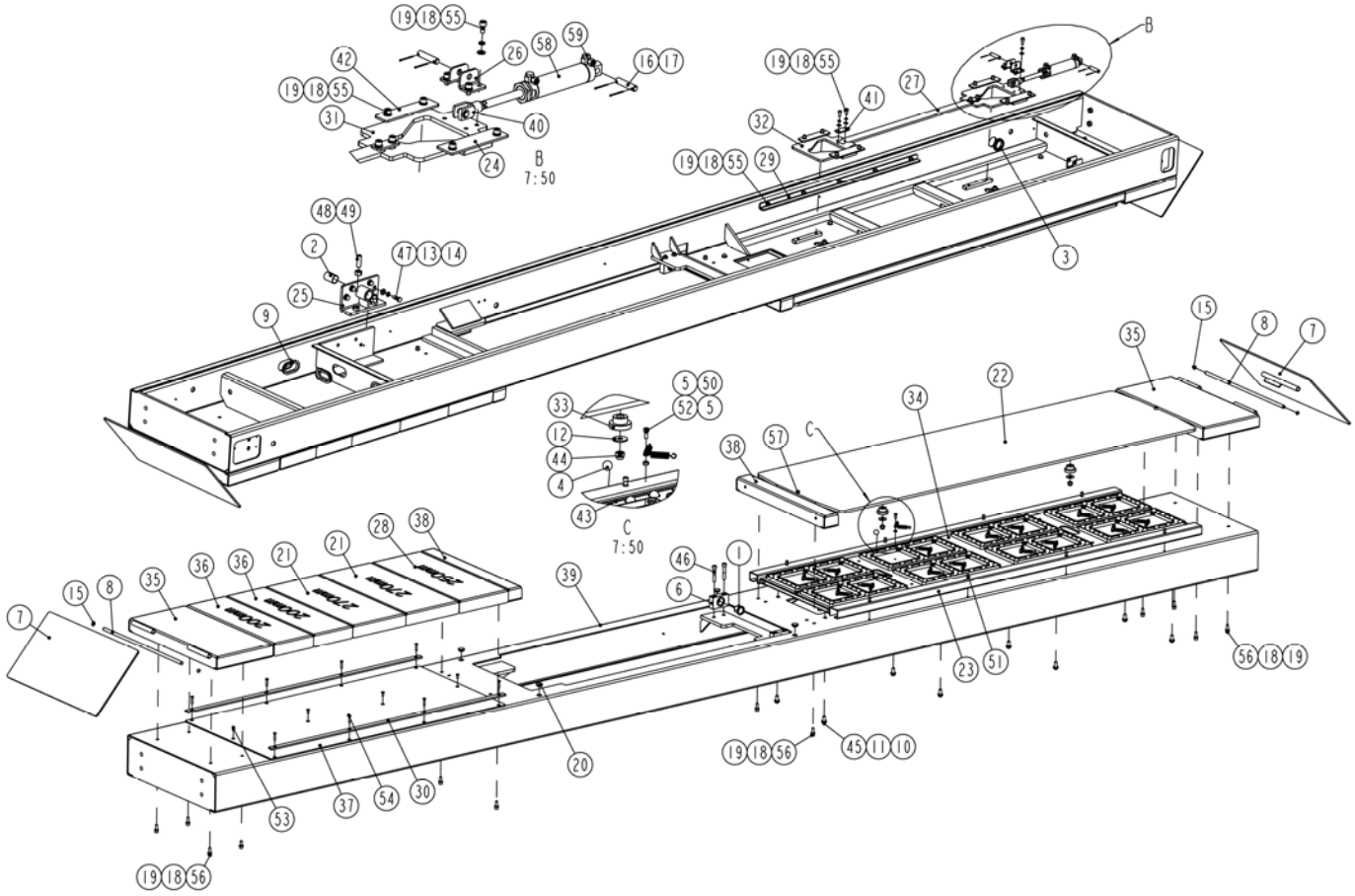
Support arm of wheel-support lift



Pos.	Code	Component descriptions	Specification	Qty
1	205101109	Bearing	3530-SF-1X	4
2	420040020	Protective ringΦ20	6254E-A22	2
3	204201010	Spring washer	D16-GB93	6

Pos.	Code	Component descriptions	Specification	Qty
4	204101009	Flat washer	D16-GB95	6
5	206201013	Cotter pin	D1_6X20-GB91	6
6	204101014	Flat washer	D27-GB95	2
7	204101015	Flat washer	D30-GB95	3
8	206103003	Pin with hole	D6X40-GB880	3
9	410913312	Mid shaft	DX50-A2-B3	2
10	614021727	Bottom master cylinder holder	DX50-A2-B4	1
11	420680246	Upper slider	DX50-A2-B5	2
12	420680247	Lower slider	DX50-A2-B6	2
13	614021728	Bottom slave cylinder holder	DX50-A2-B10	1
14	410913313	Upper shaft of cylinder	DX50-A2-B11	1
15	410913314	Lower shaft of master cylinder	DX50-A2-B12	1
16	410913315	Lower shaft of slave cylinder	DX50-A2-B13	1
17	420680232	Protective ring	DX50-A2-B14	6
18	614902185	Outer support arm	DX50-A2-B1-5T	1
19	614902186	Inner support arm	DX50-A2-B2-5T	1
20	201103007	Hex head full threaded bolt	M16X45-GB5783	6
21	203103016	Hex locking nut	M27X3-GB6172_1	2
22	208106001	Grease injection cup	M8X1-JB9740_1	2

Wheel support platform A without track -53L

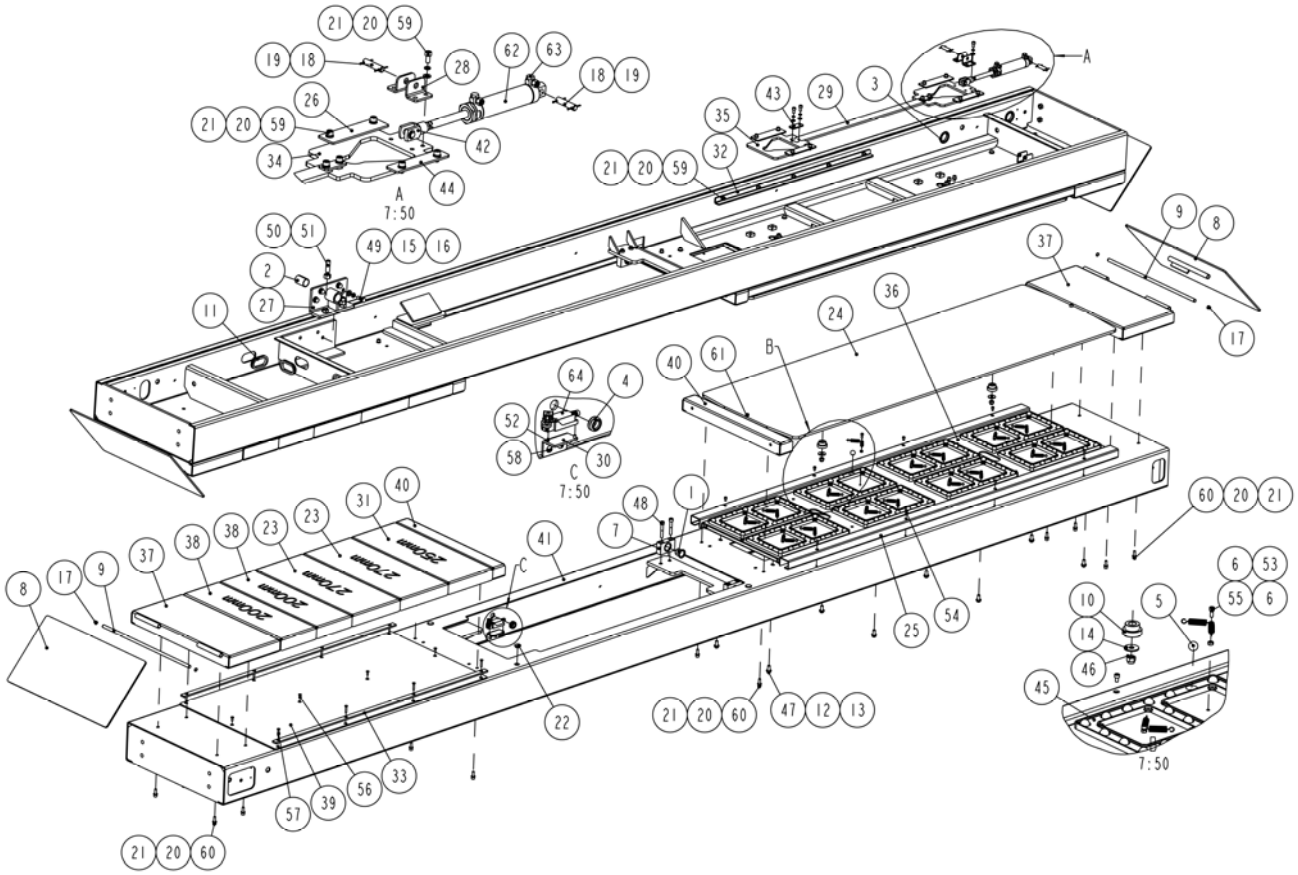


Pos.	Code	Component descriptions	Specification	Qty
1	205103003	Bearing	2525F	2
2	205101023	Bearing	3050-SF-1X	2
3	420040030	Protective ring Φ40	6254E-A21	3
4	420270110	Roller	6435B-A4-B21	160
5	410274481	Spring	6435B-A4-B31	32
6	410276701	Bottom holder for wheel-free jack	6435BWF-C03-20	2
7	614042008	Wheel stop	66035-A03-B02	2
8	410210111	Shaft	6603B-A4-B9-C4	2
9	420250050B	Protective ring	6604B-A17	4
10	204201005	Spring washer	D10-GB93	8
11	204101006	Flat washer	D10-GB95	8
12	201104001	Large washer	D10-GB96	2
13	204201006	Spring washer	D12-GB93	8
14	204101007	Flat washer	D12-GB95	8
15	204301002	Circlip	D12-GB894_1	4
16	206103005	Pin with hole	D12X55-GB880	2
17	206201004	Cotter pin	D3X45-GB91	4

Pos.	Code	Component descriptions	Specification	Qty
18	204201004	Spring washer	D8-GB93	38
19	204101005	Flat washer	D8-GB95	38
20	420680068	Rubber padding block	DC-20	4
21	614902203	Flexible box-270mm	DX50-A3-B3	2
22	614902209	Slip plate	DX50-A3-B5	1
23	614902201	Decorative plate	DX50-A3-B6	2
24	612902181	Welded track	DX50-A3-B7	2
25	614902202	Holder for support arm	DX50-A3-B8	2
26	410913355	Holder for pneumatic cylinder	DX50-A3-B9	2
27	410913356	Drive rod	DX50-A3-B10	1
28	614902200	Flexible box-250mm	DX50-A3-B12	1
29	410913357	Anti-overturning upper plate	DX50-A3-B13	2
30	410913485	Stop rod	DX50-A3-B14	2
31	410913484	Drive plate A	DX50-A3-B15	1
32	410913483	Drive plate B	DX50-A3-B16	1
33	420680252	Nylon sheath	DX50-A3-B17	2
34	614902210	Padding plate	DX50-A3-B22	1
35	614902204	Fixed box-285mm	DX50-A3-B23	2
36	410913367	Flexible box-200mm	DX50-A3-B25	2
37	420680249	Padding plate	DX50-A3-B26	1
38	614902199B	Fixed box-70mm	DX50-A3-B4_B	2
39	614902248B	Platform A without track	DX50BWF-A3-B1-53L_B	1
40	310304002	Y-connector	F-M12X125-Y	1
41	410911377	Connection block	HX50-A3-B7-C9	2
42	410911379	Track	HX50-A3-B7-C11	2
43	420490010	Roller holder	LX35-A20	8
44	203103007	Hex locking nut	M10-GB889_1	2
45	202110012	Hex socket button head screw	M10X25-GB70_2	8
46	202109153	Hex socket cylinder head screw	M10X60-GB70_1	4
47	201102027	Hex head full threaded bolt	M12X30-GB5783	8
48	203101009	Hex nut	M16-GB6170	4
49	202205002	Flat head locking screw	M16X50-GB77	4
50	203101004	Hex nut	M6-GB6170	16
51	202109018	Hex socket cylinder head screw	M6X10-GB70_1	8
52	202109020	Hex socket cylinder head screw	M6X15-GB70_1	16
53	202111037	Hex socket flat head screw	M6X16-GB70_3	4
54	202111017	Hex socket flat head screw	M6X30-GB70_3	8
55	202109028	Hex socket cylinder head screw	M8X16-GB70_1	26

Pos.	Code	Component descriptions	Specification	Qty
56	202109030	Hex socket cylinder head screw	M8X25-GB70_1	12
57	202109031	Hex socket cylinder head screw	M8X30-GB70_1	2
58	310502001	Stainless steel air cylinder	MA40X100SCA	1
59	310302001	Elbow pneumatic connector	TKN-PH8-01	2

Wheel support platform B without track -53L

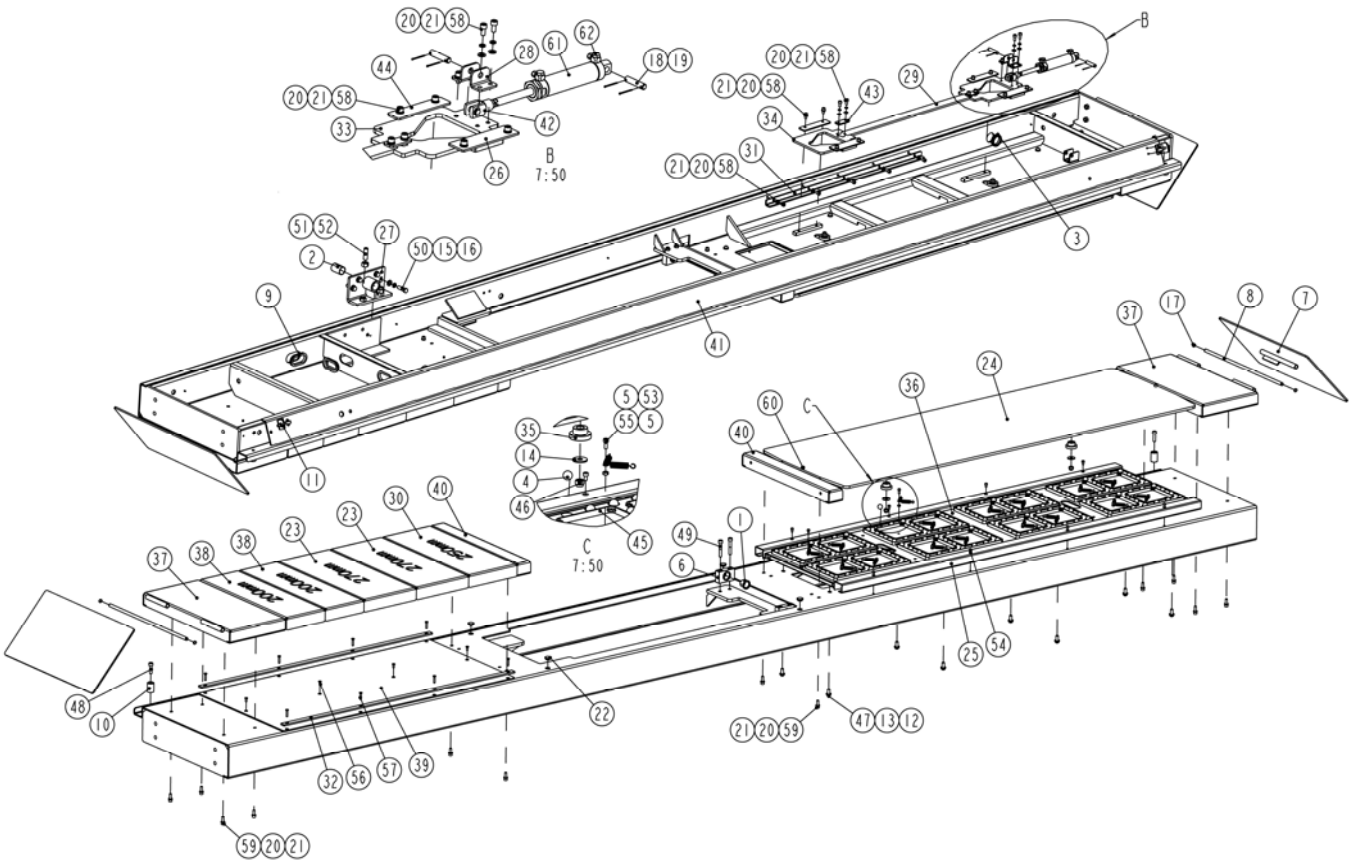


Pos.	Code	Component descriptions	Specification	Qty
1	205103003	Bearing	2525F	2
2	205101023	Bearing	3050-SF-1X	2
3	420040030	Protective ring Φ40	6254E-A21	3
4	420040020	Protective ring Φ20	6254E-A22	1
5	420270110	Roller	6435B-A4-B21	160
6	410274481	Spring	6435B-A4-B31	32
7	410276701	Bottom holder for wheel-free jack	6435BWF-C03-20	2
8	614042008	Wheel stop	66035-A03-B02	2
9	410210111	Shaft	6603B-A4-B9-C4	2
10	420680180	Nylon sheath	6603BWF-A4Q-B2	2
11	420250050B	Protective ring	6604B-A17	4

Pos.	Code	Component descriptions	Specification	Qty
12	204201005	Spring washer	D10-GB93	8
13	204101006	Flat washer	D10-GB95	8
14	201104001	Large washer	D10-GB96	2
15	204201006	Spring washer	D12-GB93	8
16	204101007	Flat washer	D12-GB95	8
17	204301002	Circlip	D12-GB894_1	4
18	206103005	Pin with hole	D12X55-GB880	2
19	206201004	Cotter pin	D3X45-GB91	4
20	204201004	Spring washer	D8-GB93	38
21	204101005	Flat washer	D8-GB95	38
22	420680068	Rubber padding block	DC-20	4
23	614902203	Flexible box-270mm	DX50-A3-B3	2
24	614902209	Slip plate	DX50-A3-B5	1
25	614902201	Decorative plate	DX50-A3-B6	2
26	612902181	Welded track	DX50-A3-B7	2
27	614902202	Holder for support arm	DX50-A3-B8	2
28	410913355	Holder for pneumatic cylinder	DX50-A3-B9	2
29	410913356	Drive rod	DX50-A3-B10	1
30	410913368	Limit switch holder	DX50-A3-B11	1
31	614902200	Flexible box-250mm	DX50-A3-B12	1
32	410913357	Anti-overturning upper plate	DX50-A3-B13	2
33	410913485	Stop rod	DX50-A3-B14	2
34	410913484	Drive plate A	DX50-A3-B15	1
35	410913483	Drive plate B	DX50-A3-B16	1
36	614902210	Padding plate	DX50-A3-B22	1
37	614902204	Fixed box-285mm	DX50-A3-B23	2
38	410913367	Flexible box-200mm	DX50-A3-B25	2
39	420680249	Padding plate	DX50-A3-B26	1
40	614902199B	Fixed box-70mm	DX50-A3-B4_B	2
41	614902249B	Platform B without track	DX50BWF-A3B-B1-53L_B	1
42	310304002	Y-connector	F-M12X125-Y	1
43	410911377	Connection block	HX50-A3-B7-C9	2
44	410911379	Track	HX50-A3-B7-C11	2
45	420490010	Roller holder	LX35-A20	8
46	203103007	Hex locking nut	M10-GB889_1	2
47	202110012	Hex socket button head screw	M10X25-GB70_2	8
48	202109153	Hex socket cylinder head screw	M10X60-GB70_1	4
49	201102027	Hex head full threaded bolt	M12X30-GB5783	8

Pos.	Code	Component descriptions	Specification	Qty
50	203101009	Hex nut	M16-GB6170	4
51	202205002	Flat head locking screw	M16X50-GB77	4
52	202101021	Cross socket cap head screw	M5X10-GB818	2
53	203101004	Hex nut	M6-GB6170	16
54	202109018	Hex socket cylinder head screw	M6X10-GB70_1	8
55	202109020	Hex socket cylinder head screw	M6X15-GB70_1	16
56	202111037	Hex socket flat head screw	M6X16-GB70_3	4
57	202111017	Hex socket flat head screw	M6X30-GB70_3	8
58	202110004	Hex socket button head screw	M8X12-GB70_2	2
59	202109028	Hex socket cylinder head screw	M8X16-GB70_1	26
60	202109030	Hex socket cylinder head screw	M8X25-GB70_1	12
61	202109031	Hex socket cylinder head screw	M8X30-GB70_1	2
62	310502001	Stainless steel air cylinder	MA40X100SCA	1
63	310302001	Elbow pneumatic connector	TKN-PH8-01	2
64	320301011	Limit switch	TZ8108-DX50X	1

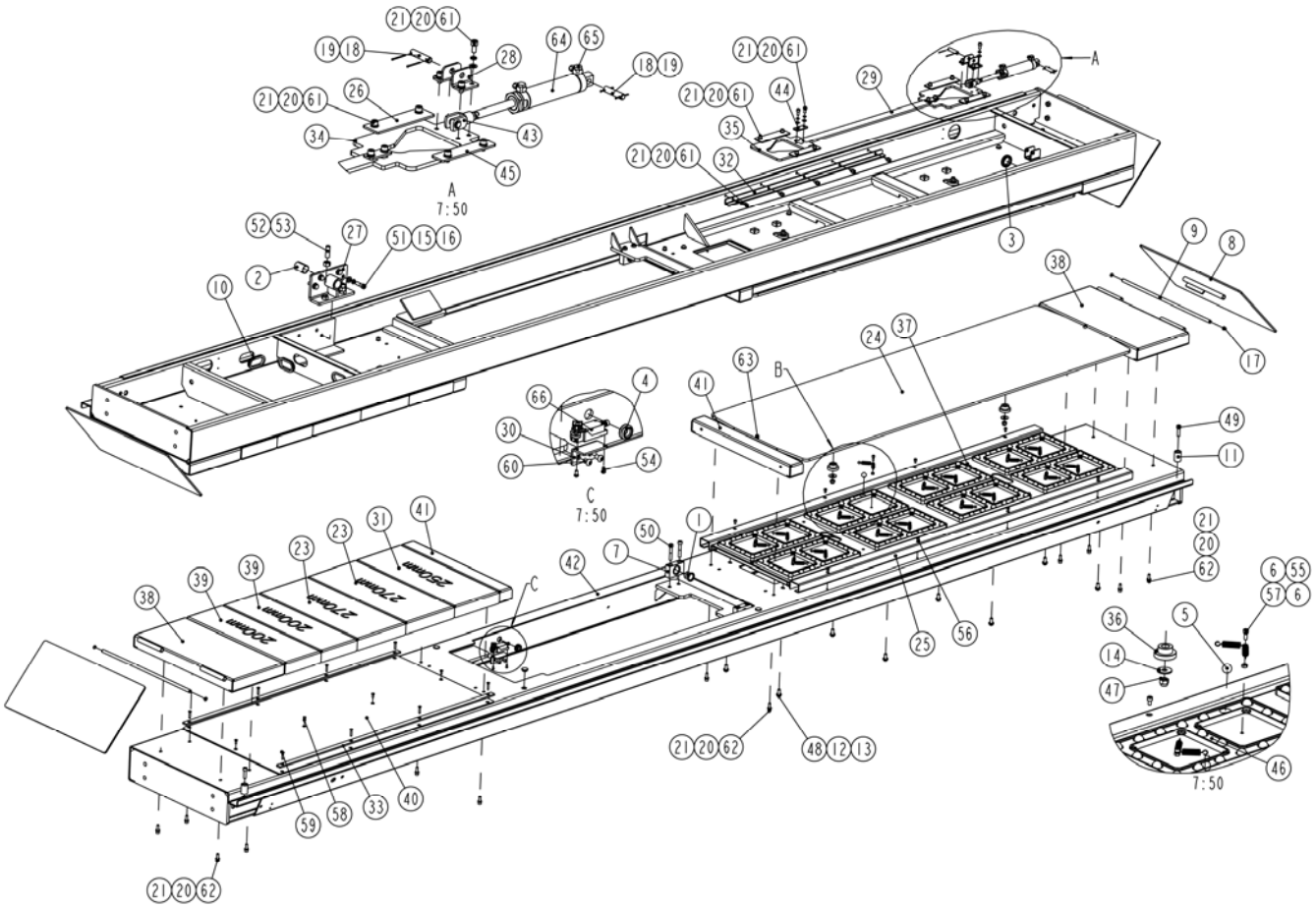
Wheel support platform A with track -53LC



Pos.	Code	Component descriptions	Specification	Qty
1	205103003	Bearing	2525F	2
2	205101023	Bearing	3050-SF-1X	2
3	420040030	Protective ring Φ40	6254E-A21	1
4	420270110	Roller	6435B-A4-B21	160
5	410274481	Spring	6435B-A4-B31	32
6	410276701	Bottom holder for wheel-free jack	6435BWF-C03-20	2
7	614042008	Wheel stop	66035-A03-B02	2
8	410210111	Shaft	6603B-A4-B9-C4	2
9	420250050B	Protective ring	6604B-A17	4
10	420260040	Stop block	6605B-A21	2
11	615026012	Lock device	6605B-A22	2
12	204201005	Spring washer	D10-GB93	8
13	204101006	Flat washer	D10-GB95	8
14	201104001	Large washer	D10-GB96	2
15	204201006	Spring washer	D12-GB93	8
16	204101007	Flat washer	D12-GB95	8
17	204301002	Circlip	D12-GB894_1	4
18	206103005	Pin with hole	D12X55-GB880	2
19	206201004	Cotter pin	D3X45-GB91	4
20	204201004	Spring washer	D8-GB93	38
21	204101005	Flat washer	D8-GB95	38
22	420680068	Rubber padding block	DC-20	4
23	614902203	Flexible box-270mm	DX50-A3-B3	2
24	614902209	Slip plate	DX50-A3-B5	1
25	614902201	Decorative plate	DX50-A3-B6	2
26	612902181	Welded track	DX50-A3-B7	2
27	614902202	Holder for support arm	DX50-A3-B8	2
28	410913355	Holder for pneumatic cylinder	DX50-A3-B9	2
29	410913356	Drive rod	DX50-A3-B10	1
30	614902200	Flexible box-250mm	DX50-A3-B12	1
31	410913357	Anti-overturning upper plate	DX50-A3-B13	2
32	410913485	Stop rod	DX50-A3-B14	2
33	410913484	Drive plate A	DX50-A3-B15	1
34	410913483	Drive plate B	DX50-A3-B16	1
35	420680252	Nylon sheath	DX50-A3-B17	2
36	614902210	Padding plate	DX50-A3-B22	1
37	614902204	Fixed box-285mm	DX50-A3-B23	2
38	410913367	Flexible box-200mm	DX50-A3-B25	2

Pos.	Code	Component descriptions	Specification	Qty
39	420680249	Padding plate	DX50-A3-B26	1
40	614902199B	Fixed box-70mm	DX50-A3-B4_B	2
41	614902208B	Platform A with track for rolling jack	DX50BWF-A3-B1-53LC_B	1
42	310304002	Y-connector	F-M12X125-Y	1
43	410911377	Connection block	HX50-A3-B7-C9	2
44	410911379	Track	HX50-A3-B7-C11	2
45	420490010	Roller holder	LX35-A20	8
46	203103007	Hex locking nut	M10-GB889_1	2
47	202110012	Hex socket button head screw	M10X25-GB70_2	8
48	202109044	Hex socket cylinder head screw	M10X35-GB70_1	2
49	202109153	Hex socket cylinder head screw	M10X60-GB70_1	4
50	201102029	Hex head full threaded bolt	M12X40-GB5783	8
51	203101009	Hex nut	M16-GB6170	4
52	202205002	Flat head locking screw	M16X50-GB77	4
53	203101004	Hex nut	M6-GB6170	16
54	202109018	Hex socket cylinder head screw	M6X10-GB70_1	8
55	202109020	Hex socket cylinder head screw	M6X15-GB70_1	16
56	202111037	Hex socket flat head screw	M6X16-GB70_3	4
57	202111017	Hex socket flat head screw	M6X30-GB70_3	8
58	202109028	Hex socket cylinder head screw	M8X16-GB70_1	26
59	202109030	Hex socket cylinder head screw	M8X25-GB70_1	12
60	202109031	Hex socket cylinder head screw	M8X30-GB70_1	2
61	310502001	Stainless steel air cylinder	MA40X100SCA	1
62	310302003	Elbow pneumatic connector	TKN-PH6-01	2

Wheel support platform B with track -53LC

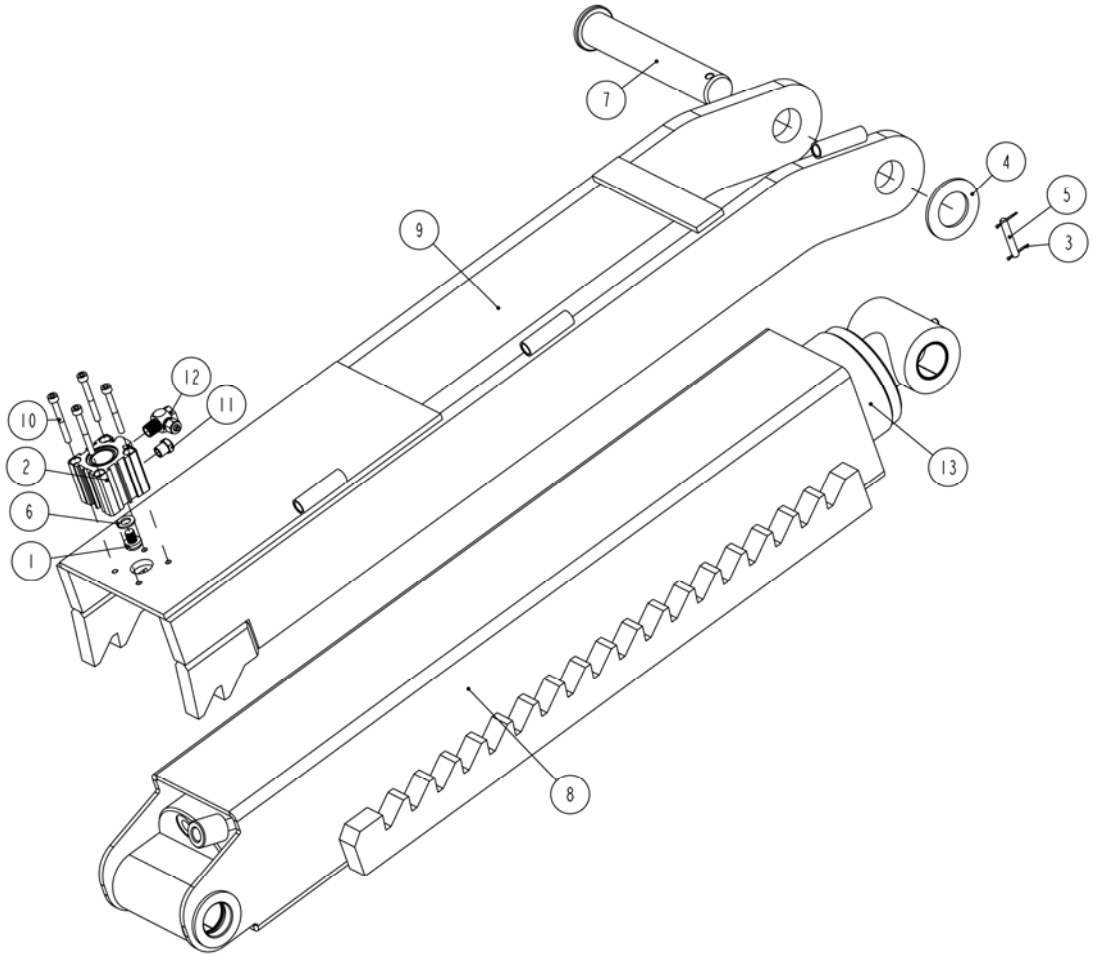


Pos.	Code	Component descriptions	Specification	Qty
1	205103003	Bearing	2525F	2
2	205101023	Bearing	3050-SF-1X	2
3	420040030	Protective ring Φ40	6254E-A21	1
4	420040020	Protective ring Φ20	6254E-A22	1
5	420270110	Roller	6435B-A4-B21	160
6	410274481	Spring	6435B-A4-B31	32
7	410276701	Bottom holder for wheel-free jack	6435BWF-C03-20	2
8	614042008	Wheel stop	66035-A03-B02	2
9	410210111	Shaft	6603B-A4-B9-C4	2
10	420250050B	Nylon sheath	6604B-A17	4
11	420260040	Stop block	6605B-A21	2
12	204201005	Spring washer	D10-GB93	8
13	204101006	Flat washer	D10-GB95	8
14	201104001	Large washer	D10-GB96	2
15	204201006	Spring washer	D12-GB93	8

Pos.	Code	Component descriptions	Specification	Qty
16	204101007	Flat washer	D12-GB95	8
17	204301002	Circlip	D12-GB894_1	4
18	206103005	Pin with hole	D12X55-GB880	2
19	206201004	Cotter pin	D3X45-GB91	4
20	204201004	Spring washer	D8-GB93	38
21	204101005	Flat washer	D8-GB95	38
22	420680068	Rubber padding block	DC-20	4
23	614902203	Flexible box-270mm	DX50-A3-B3	2
24	614902209	Slip plate	DX50-A3-B5	1
25	614902201	Decorative plate	DX50-A3-B6	2
26	612902181	Welded track	DX50-A3-B7	2
27	614902202	Holder for support arm	DX50-A3-B8	2
28	410913355	Holder for pneumatic cylinder	DX50-A3-B9	2
29	410913356	Drive rod	DX50-A3-B10	1
30	410913368	Limit switch holder	DX50-A3-B11	1
31	614902200	Flexible box-250mm	DX50-A3-B12	1
32	410913357	Anti-overturning upper plate	DX50-A3-B13	2
33	410913485	Stop rod	DX50-A3-B14	2
34	410913484	Drive plate A	DX50-A3-B15	1
35	410913483	Drive plate B	DX50-A3-B16	1
36	420680252	Nylon sheath	DX50-A3-B17	2
37	614902210	Padding plate	DX50-A3-B22	1
38	614902204	Fixed box-285mm	DX50-A3-B23	2
39	410913367	Flexible box-200mm	DX50-A3-B25	2
40	420680249	Padding plate	DX50-A3-B26	1
41	614902199B	Fixed box-70mm	DX50-A3-B4_B	2
42	614902211B	Platform B with track for rolling jack	DX50BWF-A3B-B1-53LC_B	1
43	310304002	Y-connector	F-M12X125-Y	1
44	410911377	Connection block	HX50-A3-B7-C9	2
45	410911379	Track	HX50-A3-B7-C11	2
46	420490010	Roller holder	LX35-A20	8
47	203103007	Hex locking nut	M10-GB889_1	2
48	202110012	Hex socket button head screw	M10X25-GB70_2	8
49	202109044	Hex socket cylinder head screw	M10X35-GB70_1	2
50	202109153	Hex socket cylinder head screw	M10X60-GB70_1	4
51	201102029	Hex head full threaded bolt	M12X40-GB5783	8
52	203101009	Hex nut	M16-GB6170	4
53	202205002	Flat head locking screw	M16X50-GB77	4

Pos.	Code	Component descriptions	Specification	Qty
54	202101021	Cross socket cap head screw	M5X10-GB818	2
55	203101004	Hex nut	M6-GB6170	16
56	202109018	Hex socket cylinder head screw	M6X10-GB70_1	8
57	202109020	Hex socket cylinder head screw	M6X15-GB70_1	16
58	202111037	Hex socket flat head screw	M6X16-GB70_3	4
59	202111017	Hex socket flat head screw	M6X30-GB70_3	8
60	202110004	Hex socket button head screw	M8X12-GB70_2	2
61	202109028	Hex socket cylinder head screw	M8X16-GB70_1	26
62	202109030	Hex socket cylinder head screw	M8X25-GB70_1	12
63	202109031	Hex socket cylinder head screw	M8X30-GB70_1	2
64	310502001	Stainless steel air cylinder	MA40X100SCA	1
65	310302003	Elbow pneumatic connector	TKN-PH6-01	2
66	320301011	Limit switch	TZ8108-DX50X	1

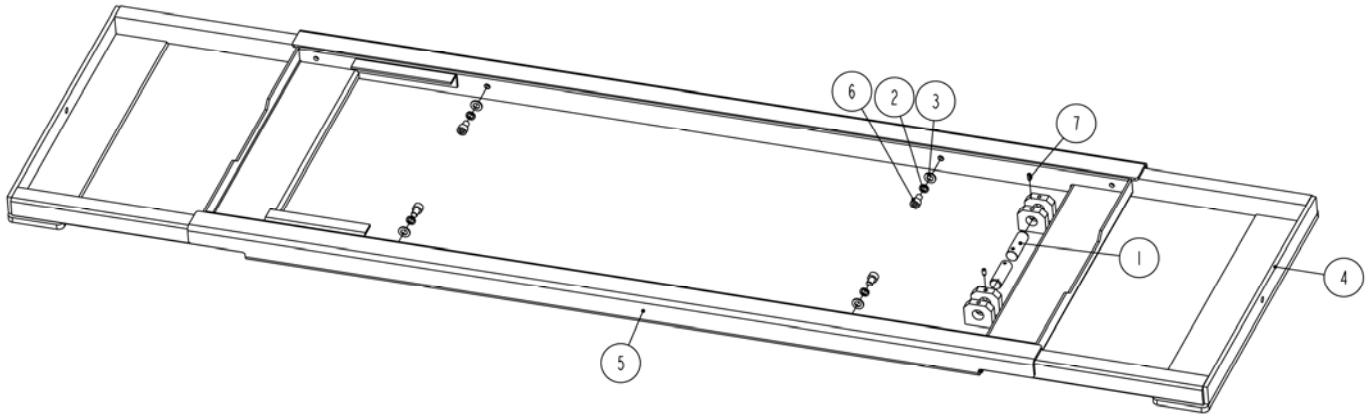
Master cylinder and locking device assembly for wheel-support lift



Pos.	Code	Component descriptions	Specification	Qty
1	420420010	Adjustable head	66035-A03-B09	1

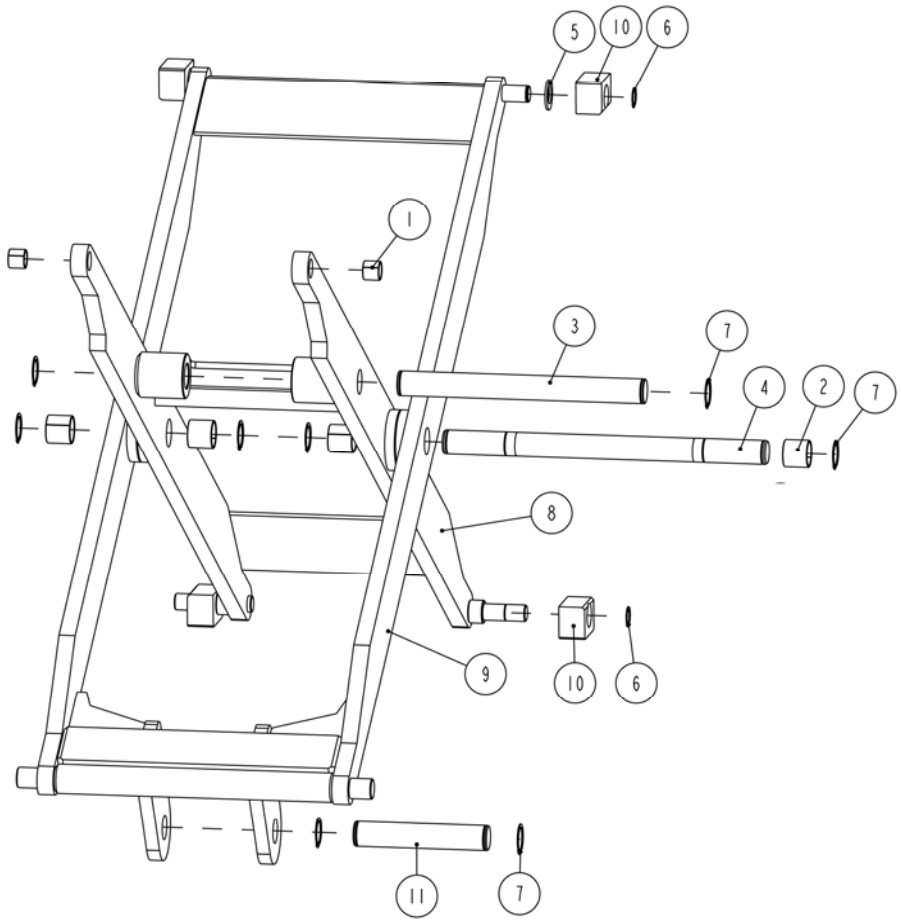
Pos.	Code	Component descriptions	Specification	Qty
2	310501001	Pneumatic cylinder	CQ2B32X20-A	1
3	206201013	Cotter pin	D1_6X20-GB91	2
4	204101015	Flat washer	D30-GB95	1
5	206103003	Pin with hole	D6X40-GB880	1
6	204101005	Flat washer	D8-GB95	1
7	410913313	Upper shaft of cylinder	DX50-A2-B11	1
8	614902212	Welded main safety ratchet	DX50-A4-B1	1
9	614902213	Mechanical safety lock	DX50-A4-B2	1
10	202109014	Hex socket cylinder head screw	M5X45-GB70_1	4
11	310201003	Silencer	SLM01-R1-8	1
12	310302003	Elbow pneumatic connector	TKN-PH6-01	1
13	625000057	Master cylinder	YG90-102-50-646-850	1

Wheel-free platform



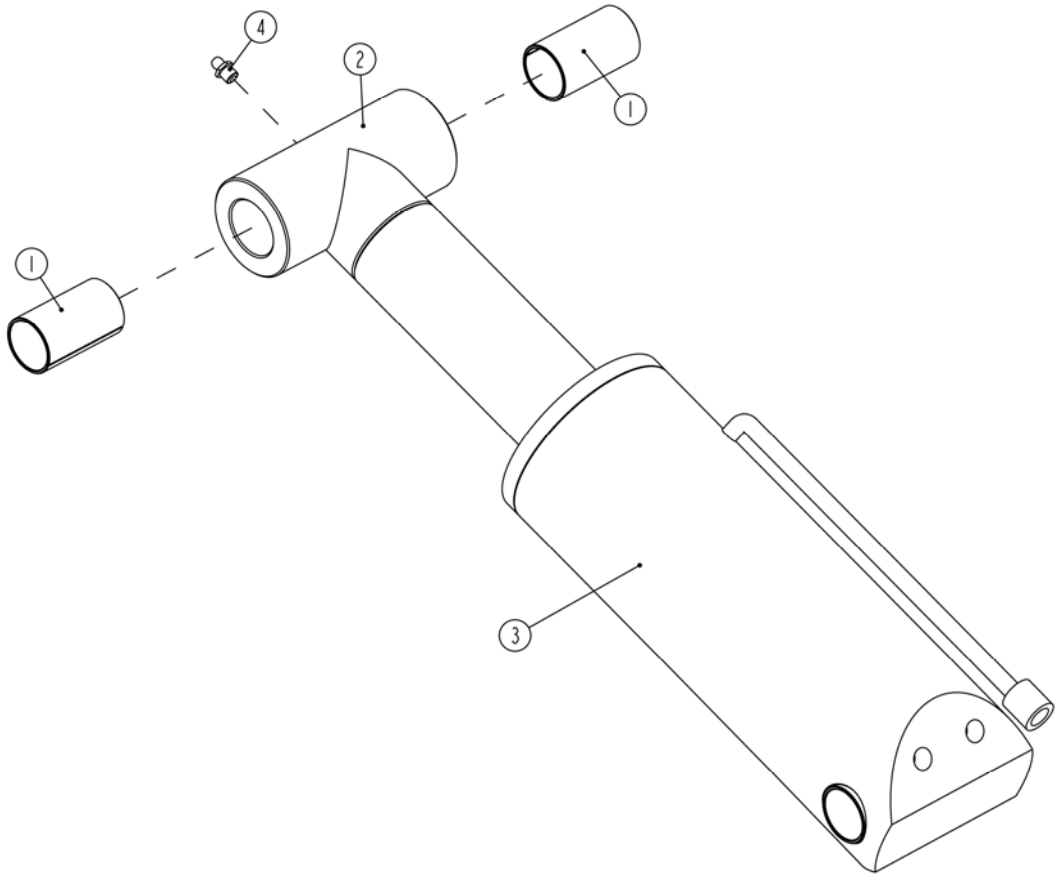
Pos.	Code	Component descriptions	Specification	Qty
1	410210071	Shaft A	6603B-A2-B9	2
2	204201005	Spring washer	D10-GB93	4
3	204101006	Flat washer	D10-GB95	4
4	614902217	Platform extension	DX50-A6-B1	2
5	614902216	Wheel-free platform	DX50-A6-B2	1
6	202109040	Hex socket cylinder head screw	M10X15-GB70_1	4
7	202208001	Hex socket cylinder head locking screw	M6X12-GB79	2

Support arm of wheel-free lift



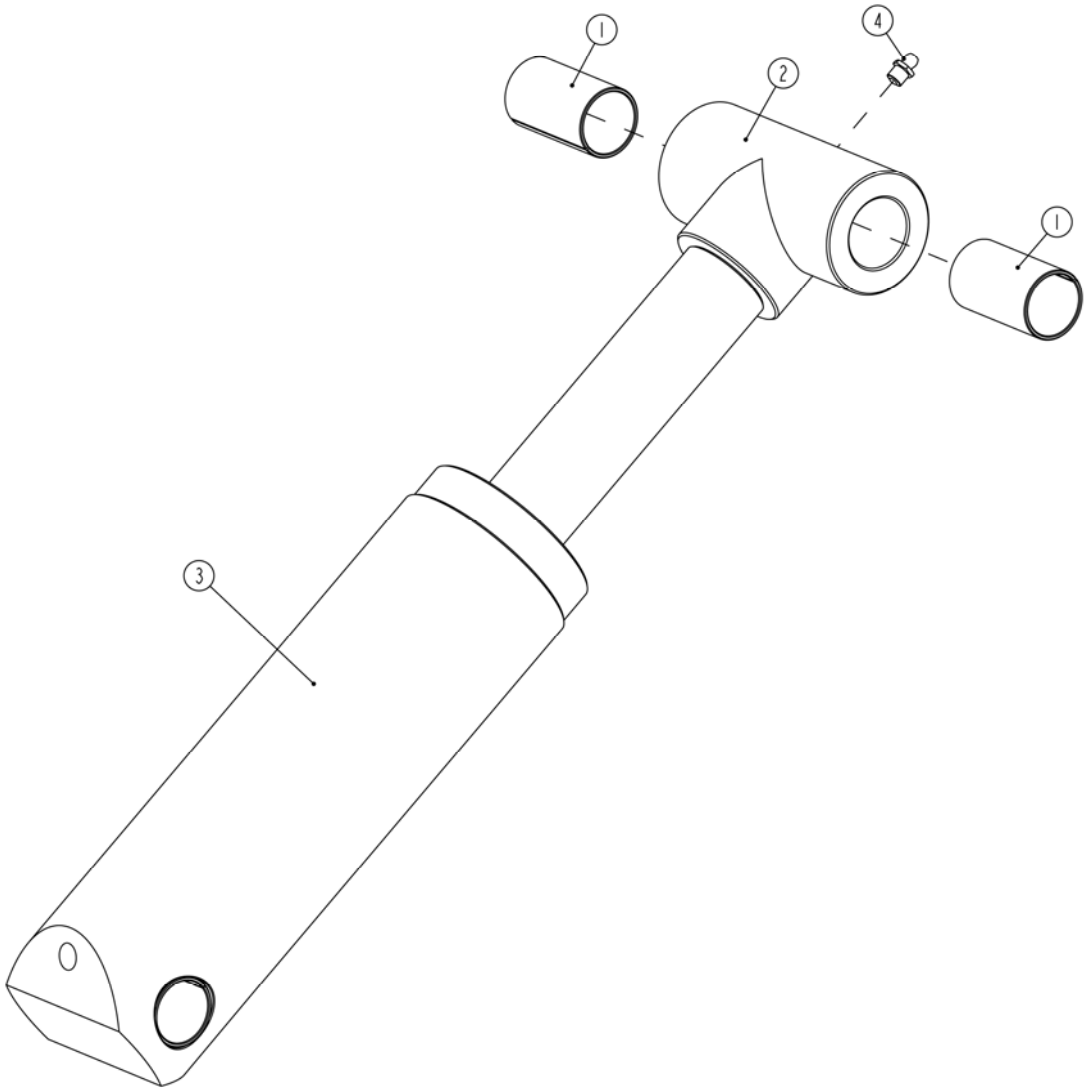
Pos.	Code	Component descriptions	Specification	Qty
1	205101004	Bearing	2020-SF-1X	2
2	205101020	Bearing	3030-SF-1X	4
3	410210021	Upper shaft	6603B-A2-B3	1
4	410912145	Mid shaft	6603B1-A2-B3	1
5	204101011	Flat washer	D20-GB95	2
6	204301007	Circlip	D20-GB894_2	4
7	204301011	Circlip	D30-GB894_2	8
8	614902214	Inner support arm	DX50-A5-B1	1
9	614902215	Outer support arm	DX50-A5-B2	1
10	420680250	Slider	DX50-A5-B3	4
11	410913498	Lower shaft	DX50-A5-B4	1

Master cylinder of wheel-free jack



Pos.	Code	Component descriptions	Specification	Qty
1	205101025	Bearing	3058-SF-2X	2
2	410212090	T shape cylinder connector	6603B-A3-B8	1
3	615026701	Master cylinder	HX6-SMCYL	1
4	208106001	Grease injection cup	M8X1-JB9740_1	1

Slave cylinder of wheel-free jack



Pos.	Code	Component descriptions	Specification	Qty
1	205101025	Bearing	3058-SF-2X	2
2	410212090	T shape cylinder connector	6603B-A3-B8	1
3	615026702	Slave cylinder	HX6-SSCYL	1
4	208106001	Grease injection cup	M8X1-JB9740_1	1