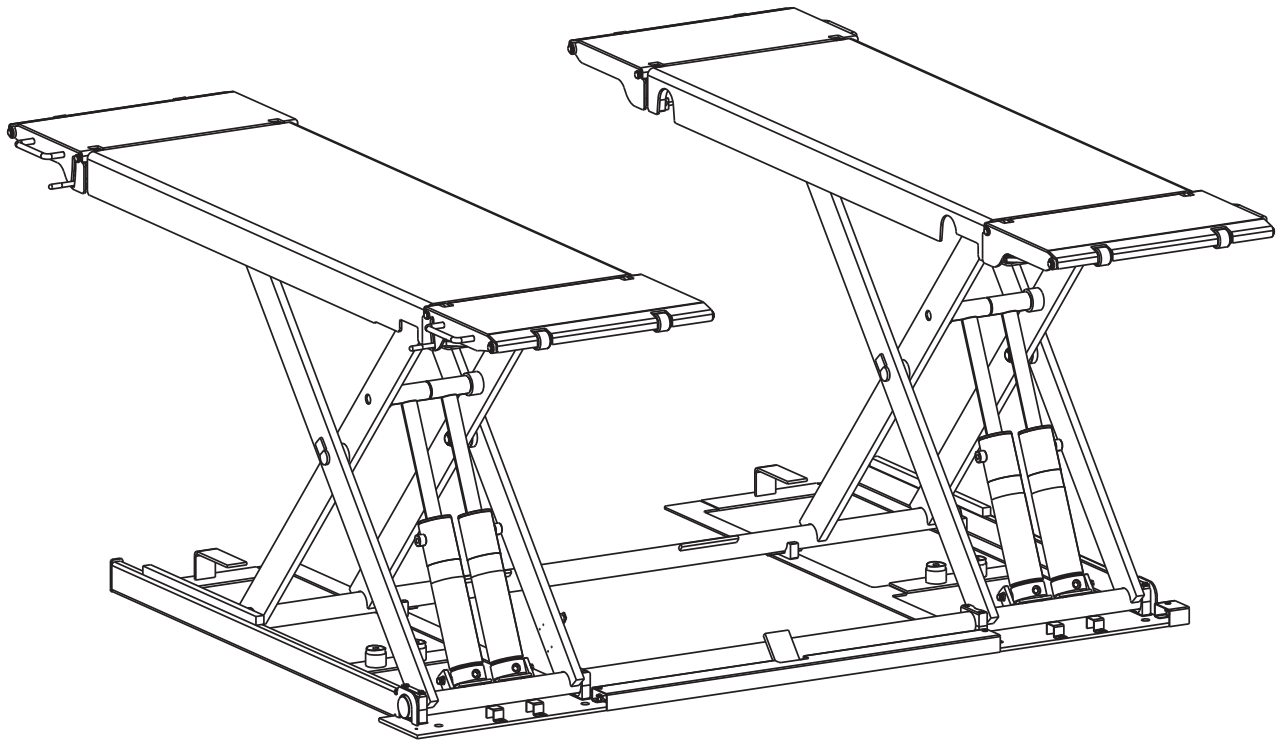




XS30N (100 Series) Scissor Lift



OPERATION
&
MAINTENANCE
MANUAL

Installer: Please return this booklet to literature package and give to lift owner/operator

EG-Konformitätserklärung EC Declaration of Conformity

im Sinne der EG-Richtlinie 2006/42/EG über Maschinen (Anhang II A)
according to EC directive 2006/42/EC on machinery (Annex II A)

Name und Anschrift des Herstellers
Name and address of the manufacturer:

BlitzRotary GmbH
Hüfinger Str.55
78199 Bräunlingen, Germany

Name und Anschrift seines in der EU
niedergelassenen Bevollmächtigten *his authorised representative in EU*
BlitzRotary GmbH
Hüfinger Str.55
78199 Bräunlingen, Germany

Diese Erklärung bezieht sich nur auf die Maschine in dem Zustand, in dem sie in Verkehr gebracht wurde; vom Endnutzer nachträglich angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt. Die Erklärung verliert ihre Gültigkeit, wenn das Produkt ohne Zustimmung umgebaut oder verändert wird.

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user. The declaration is no more valid, if the product is modified without agreement.

Hiermit erklären wir, dass die nachstehend beschriebene Maschine
Herewith we declare, that the machinery described below

Produktbezeichnung / product denomination:

**Elektrohydraulische Scheren-
Hebebühne für Fahrzeuge**
Electro-hydraulic scissor lift for vehicles

Serien- / Typenbezeichnung / model / type:

XS30N
Tragfähigkeit 3000 kg / capacity 3000 kg

Maschinen-/Seriennummer / machinery / serial number:

Baujahr / Year of manufacture: **20.....**

allen einschlägigen Bestimmungen der Maschinenrichtlinie 2006/42/EG entspricht.
Die Maschine entspricht zusätzlich den Bestimmungen der Richtlinien 2014/30/EU über elektromagnetische Verträglichkeit und 2014/35/EU über elektrische Betriebsmittel (*Schutzziele wurden gemäß Anhang I, Nr. 1.5.1 der Maschinenrichtlinie 2006/42/EG eingehalten*).
is complying with all essential requirements of the Machinery Directive 2006/42/EC.
In addition the machinery is in conformity with the EC Directives 2014/30/EC relating to electromagnetic compatibility and 2014/35/EC relating to electrical equipment (Protection objectives have been met in accordance with Annex I No. 1.5.1 of the Machinery Directive 2006/42/EC).

Angewandte harmonisierte Normen / Harmonised standards used

EN 1493: 2010	Fahrzeug-Hebebühnen / Vehicle lifts
EN ISO 12100:2010	Sicherheit von Maschinen - Grundbegriffe / Safety of Machinery- Basic concepts
EN 60204-1:2006/AC 2010	Elektrische Ausrüstung von Maschinen / Electrical equipment of machines
EN ISO 13850:2015	Sicherheit von Maschinen-Not-Halt / Safety of machinery – Emergency stop

Bevollmächtigter für die Zusammenstellung der relevanten technischen Unterlagen:

The person authorised to compile the relevant technical documentation:
Jürgen Maier; BlitzRotary GmbH, Hüfinger Str. 55; 78199 Bräunlingen, Germany

Ort / Place: Bräunlingen
Datum / Date: 15.01.2020

Authorized Signature:
Title of signatory:



Doris Wochner-McVey
Geschäftsführer / Managing
Director

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1. Packing, transport and storage

ALL PACKING, LIFTING, HANDLING, TRANSPORT AND UNPACKING OPERATIONS ARE TO BE PERFORMED EXCLUSIVELY BY EXPERT PERSONNEL WITH KNOWLEDGE OF THE LIFT AND THE CONTENTS OF THIS MANUAL.

1.1 Packing

The lift is shipped assembled, resting on a wooden platform in a single pack and sealed with four straps. The total weight of the pack is approximately 724kg.

Figure 1 Handling with fork-lift truck

1.2 Lifting and handling

- The wooden platforms can be lifted either with a fork-lift truck (Figure 1) or with a crane or an overhead travelling crane (Figure 2). In the case of handling with a crane or overhead travelling crane, the packs must always be loaded with at least 2 band.
- **NB. The chosen means must be suitable for lifting and moving in safety, taking into account dimensions, weight, center of gravity, protrusions and fragile parts not to be damaged.**

1.3 Storage

The packs must always be kept in a covered and sheltered place at a temperature between -25°C and +55°C and must not be exposed to direct sunlight.

1.4 Stacking the packs

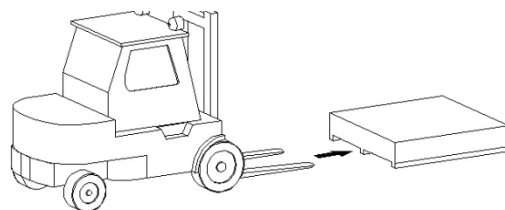
- This type of packing makes it possible to stack up to 5 packs one on top of another in a store, provided they are correctly arranged and secured against falling.
- The packs may be stacked only provided they are not resting one directly on another, but plywood and hardboard are inserted as shown in Figure 3.
- Up to 5 packs can be stacked in the bodies of lorries or in containers, provided they are well strapped down and secured against falling.

1.5 Opening

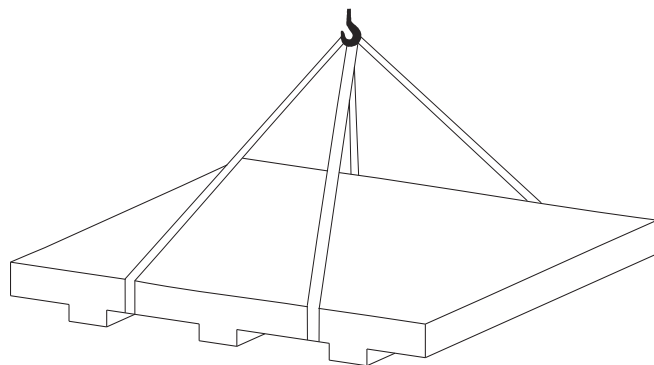
When the wooden pack arrives, check that the machine has not been damaged during transport and that all parts listed are present.

The wooden pack must be opened using all possible precautionary measures to avoid damaging the machine or its parts.

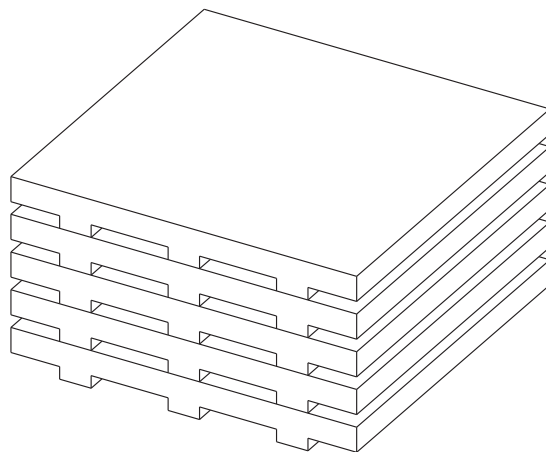
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3



2. Introduction

2.1 Caution

This manual has been written for the workshop personnel assigned to using the lift (operator) and for the engineer assigned to routine maintenance (maintenance engineer). Therefore, before doing anything with the lift and/or its packing, it is necessary to read the entire manual carefully, as it contains important information for:

- **THE SAFETY OF THE PERSONS assigned to its use and routine maintenance.**
- **THE SAFETY OF THE LIFT.**
- **THE SAFETY OF THE LIFTED VEHICLES.**

2.2 Conservation of the manual

The manual is an integral part of the lift and must always accompany it, also in the case of sale. It must always be kept close to the lift, in an easily accessible place.

The operator and the maintenance engineer must be able to find it and refer to it rapidly at any time.

IN PARTICULAR, IT IS RECOMMENDED TO READ CHAPTER 5 CAREFULLY AND REPEATEDLY AS IT CONTAINS IMPORTANT INFORMATION AND NOTICES RELATIVE TO SAFETY.

2.3 Laws

The lifts have been designed and manufactured in conformity with the following:

- EN 1493:2010 Vehicle Lift
- EN 60204-1:2006/AC:2010 Safety of machinery – Electrical equipment of machines - Part 1: General requirements
- EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction
- EN 61000-6-2:2005+AC:2005 Electromagnetic compatibility
- (EMC) Part 6-2: Generic standards — Immunity for industrial environments
- EN 61000-6-4:2007/A1:2011 Electromagnetic compatibility
- (EMC) — Part 6-4: Generic standards — Emission standard for industrial environments

3. Description of the machine

The electro-hydraulic lift, is a fixed installation; this means that it is anchored to the ground and designed and built for lifting and positioning automobiles at a certain height off the ground.

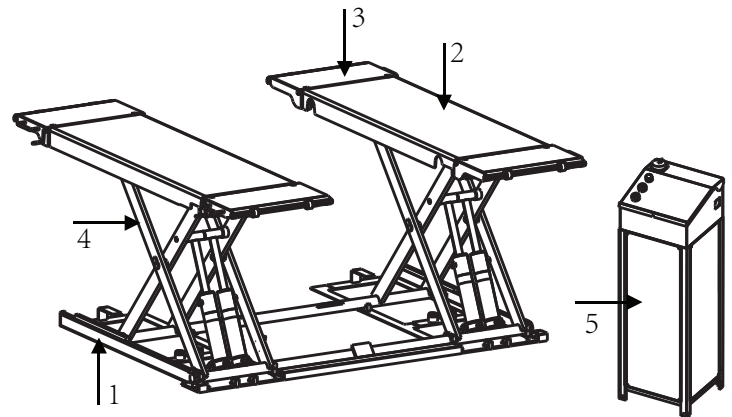
The lift is driven by an electro-hydraulic operating system.

The lift consists of the following main parts:

- **fixed structure (base);**
- **mobile units (levers + lifting platforms);**
- **lift units (hydraulic cylinders and hydraulic unit);**
- **control box;**
- **safety devices.**

Figure 4 illustrates the various parts making up the lift.

4



3.1 Structure

It is composed of a base (1) made of welded steel plates, two platforms (2), four ramps (3) and two pairs of leg weldment (4).

The base has holes for fixing to the ground by means of optional anchor bolts. Inside the base there are holes for the attachment of the lifting legs. The platforms and legs are connected at the ends by means of shafts and connected to the base by means of special plastic supports. The ramps are connected to the platform by means of special shafts.

3.2 Lifting unit

It is composed of four hydraulic cylinders connected by rigid and flexible tubes.

The lifting unit is controlled by an electric panel placed on an electric cabinet (5) containing the hydraulic unit.

3.3 Safety devices

The safety devices are composed of:

- double, hydraulic circuit
- two safety solenoid valves
- flow control valve adjusts descent speed
- automatically activated micro switch stops descent travel thus acting as foot guard
- Flow control valve just in case the hose broken

3.4 Intend use

The scissor lift may only be used:

- In indoor areas for lifting unoccupied motor vehicles.
- For lifting vehicles with a max. load capacity of 3000KG
- If the weight is distributed correctly. By default, the load should be centered in the direction of motion. If the main load (e.g. engine) is however at the front or the back, the following applies:
at front max. 3/5,
at back 2/5 of load or vice versa.
- With correctly aligned, adjustable runways. The vehicle must be approximately centered on the two platforms.
 - In accordance with the technical data in Chapter 4, in technically sound condition.

3.5 Incorrect use, incorrect behavior

Incorrect behavior presents a residual risk to the life and health of the people working in the lift area.

The manufacturer assumes no liability for damage resulting from use other than the intended purpose and from incorrect behavior.

The following is prohibited:

Figure 5

- Climbing onto or riding on the scissor lift or the load.
- Lifting when there are people in the vehicle.
- Lifting/lowering when people or animals are in the danger zone, in particular below the lift.
- Jerky lifting or lowering. Do not cause the lift to vibrate.

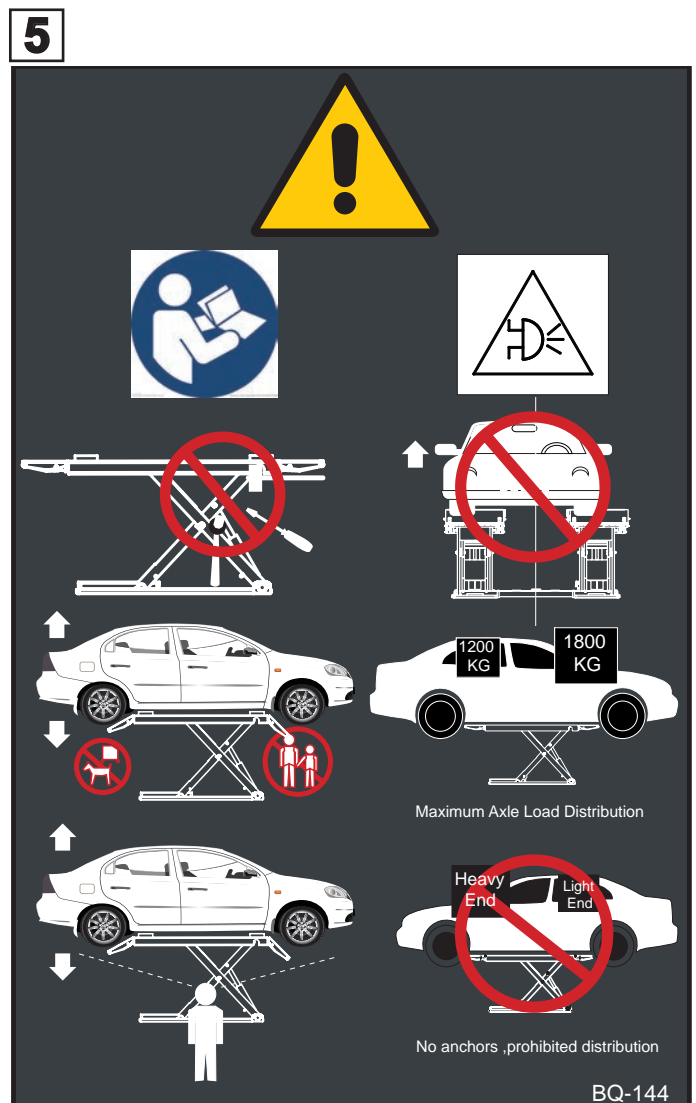
- Throwing objects onto or under the lift.
- Lifting a vehicle at the incorrect pick-up points.
- Lifting a load on only one platform of the lift.
- Lifting vehicles containing hazardous goods.
- Operating outdoors or in workshops at risk from fire or explosion.
- Washing cars on the post lift.
- Modifications of any kind

3.6 Internal accident, health and safety, and environmental information

This operating manual does not include the operating instructions which need to be drafted by the user of the scissor lift.

The internal operating instructions regulate actions within the company for the prevention of accidents, and risks to health & safety and the environment.

These also include actions in the case of an emergency, first aid measures etc.



5. Safety

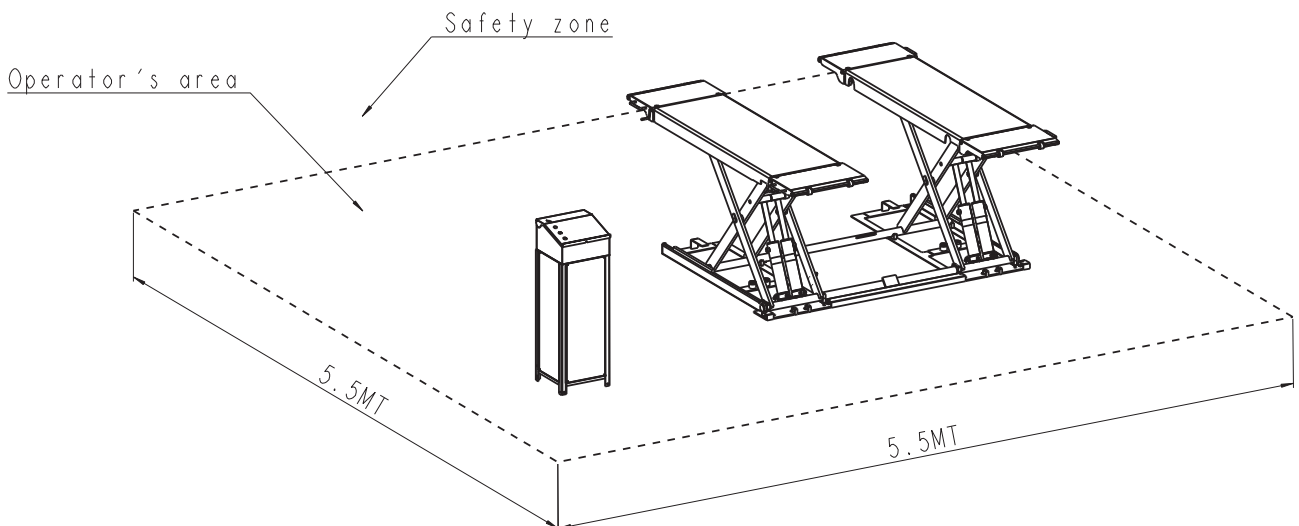
5.1 Warning

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

FAILURE TO COMPLY WITH THESE REGULATIONS CAN CAUSE SERIOUS INJURY TO PERSONS, AND IRREPERABLE DAMAGE TO THE LIFT AND THE VEHICLE BEIN LIFTED.

- 1 - Daily inspect your lift. Never operate if it malfunctions or if it has broken or damaged parts. Use only qualified lift service personnel and genuine Rotary parts to make repairs.
- 2 - During lifting or lowering operations, the car lift must be operated only from the operator's control site, as shown in the picture 7.
- 3 - Stopping or passing within the danger area when the lift is working or already lifted is strictly forbidden. Working personnel only is allowed to stay near the lift.
- 4 - The operator must make sure the danger area is empty before lifting or lowering the lift.
- 5 - Never use the machine without protection or when the safety devices are out.
- 6 - Always use the rubber pads when lifting a vehicle, observing the proper support points specified by the vehicle's manufacturer. (see chapter 7)
- 7 - To prevent the vehicle from falling make sure it is properly placed on the lift.
- 8 - Getting on the vehicle and/or starting the engine during lifting is strictly forbidden.
- 9 - Never leave objects and/or obstructions under the vehicle during the lowering phase.
- 10 - Always keep area around lift free of tools, debris, grease and oil to avoid the risk of slipping.
- 11 - Always keep platforms and ramps clean.
- 12 - Never use water steam varnish solvent jets in the car lift area, and particularly next to the control box.
- 13 - Proper lighting is extremely important. Make sure all areas to the car lift are well and uniformly lightened, according to the laws of the country where the lift is installed.
- 14 - Climbing on the platforms when lifting the vehicle or when the same has been already lifted is strictly forbidden.
- 15 - Any use of the car lift other than what herein specified can cause serious accidents to the operator as well as to the people in close proximity.
- 16 - Never exceed the maximum carrying capacity of 3000 kg when using the car lifts.
- 17 - Replace all control warnings, or safety related decals on the lift when unable to read or missing.
- 18 - Normal operating temperature range is 7° C (45°F) to 38° (100° F).

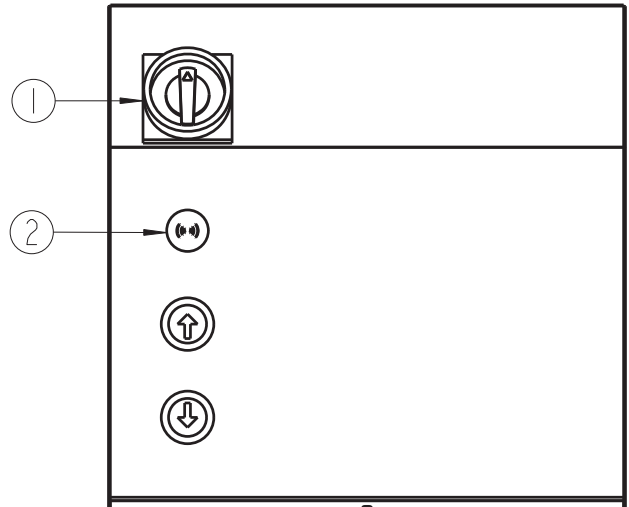
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5.2 Safety devices

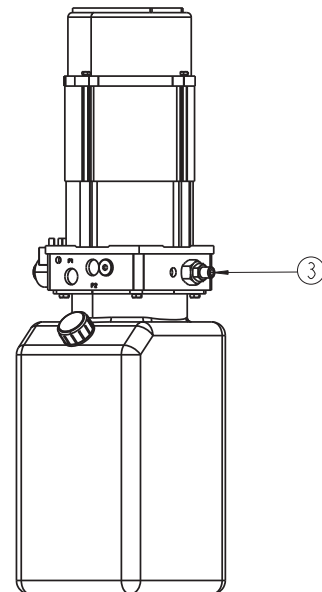
1. Buzzer Acoustic alarm. Sounds: When lowering the main lift < 120mm (foot protection)
2. Lockable main switch
"ON" setting: Scissor lift ready for use.
"OFF" setting: Scissor lift out of use.
The mains voltage is still present inside the control box. Switching off (OFF) immediately stops any movement of the post lift (=emergency stop)

8



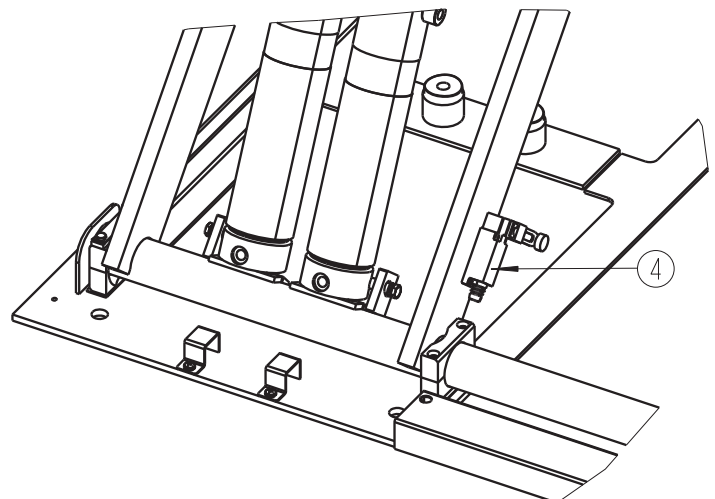
3. Overflow valve The overflow valve is factory set to ca. 145 bar. Prevents an overload lifting to protect the hydraulic power unit from being damaged.

9



4. Low limit switch on the scissor leg with control unit Deactivates the lowering process at a lift height of 120mm (foot protection, otherwise a crushing or shearing hazard exists).

10



6. Installation

6.1 Warning

Unpack the goods and check for possible damage before installing the car lift.

INSTALLATION REQUIREMENTS

The car lift must be installed according to the specified safety distances from walls, columns, other equipment, etc. The minimum distance from walls must be 1000 mm at least, taking into consideration the necessary space to work easily. Further space for the control site and for possible runways in case of emergency is also necessary. The room must be previously arranged for the power supply.

The car lift can be placed on a horizontal concrete floor with concrete quality C20/C25 and a minimum thickness of 150 mm.

- Place the car lift as required following the instructions above indicated.
- Connect hydraulic hoses A and B and the drain hose E to the power pack in the control box (page 16).
- Use Dexron III ATF, or hydraulic fluid that meets ISO32 specific cations into the tank.
- Then carry out electrical connection (see. Diagrams on page 17)

ATTENTION! Skilled personnel only are allowed to perform this operation.

ATTENTION! The installation must comply with the regulations in force and must be equipped with relevant fuses (see electrical installation).

If you have ordered the anchor bolts. Keeping the platform in the highest position, drill the floor with a helical bit having a diam. The size and depth of the hole depends on the type of anchor bolt. Clean the holes, insert the optional anchor bolts and then tighten with a torque wrench of 40 Nm.

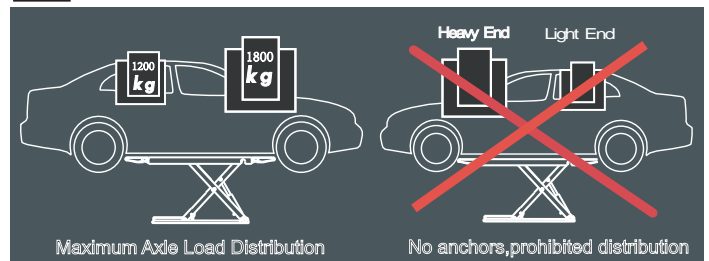
6.2 Attention

In case of using the platform in a definite place of the workshop, it can be chosen to fixed to the floor with optional anchor bolts or not fixed, according to instructions contained in this manual. (figure 11)

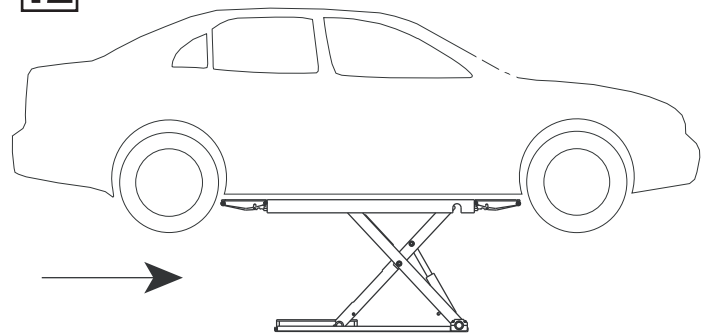
In case of moving the scissor lift to different places by optional mobile kit, the lift can be used according to the following restrictions:

- Place it on horizontal floor having proper resistance.
- Drive the vehicle on the cylinder opposite side (see figure 12)

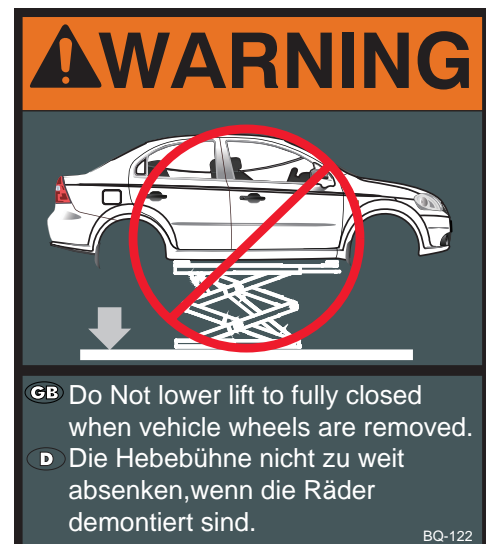
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12



13



7. Operating instructions

WARNING

To avoid personal injury and/or property damage, permit only trained personnel to operate lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift.

ATTENTION

Always lift the vehicle using all four rubber pads. Never raise just one end, one corner, or one side.

7.1 Before Loading

Inspect lift to assure it is in good operation condition.

WARNING: If lift is not operating properly, do not use until adjustments or repairs are made by a qualified lift service technician.

WARNING: Keep hand and feet clear of linkages while the lift is being raised or lowered.

WARNING: Ensure overhead clearance is provided to raise vehicles to desired height.

7.2 Loading

WARNING Before attempting to lift vehicle be sure that:

- Assure lift is fully lowered before lifting.
- Vehicle is positioned over pads as shown in figure 16.
- Vehicle body is strong enough to support its weight and has not been weakened by modification of corrosion.
- Use front ramp for vehicle support as necessary to reach front lift points.
- If pickup points can still not be reached, use both front and rear ramps for vehicle support.
- Use front ramp for vehicle support as necessary to reach front lift points.
- If pickup points can still not be reached, use both front and rear ramps for vehicle support.
- The field of motion of the load and of the load carrying devices shall be free of obstructions
- Use auxiliary rubber blocks to create clearance between vehicle chassis and lift pad. Auxiliary rubber blocks/pads are in secure contact with vehicle manufacture's recommended lift points.
- Vehicle is stable on lift; neither front nor tail heavy.

7.3 Raise Lift (see figure15)

- Actuate RAISE BUTTON.
- Raise vehicle until tires clear the floor.
- STOP: Check pads for secure contact with vehicle.
- Shake car moderately at front or rear bumper.
- Continue to raise to desired height ONLY if vehicle is secure on lift. If necessary, lower lift and reposition using vehicle manufacture's recommended pick-up points.

7.4 Before Lowering Lift

- Remove all obstacles from under vehicle and lift.
 - Assure personnel are not in lift area.
- WARNING Observe warning decals, (Figure 14).

7.5 To Lower Lift (see Figure 15)

- Remain clear of lift.
- Actuate the RAISE BUTTON for one second.
- Actuate the LOWER BUTTON to lower lift while keeping feet clear.

7.6 Unloading

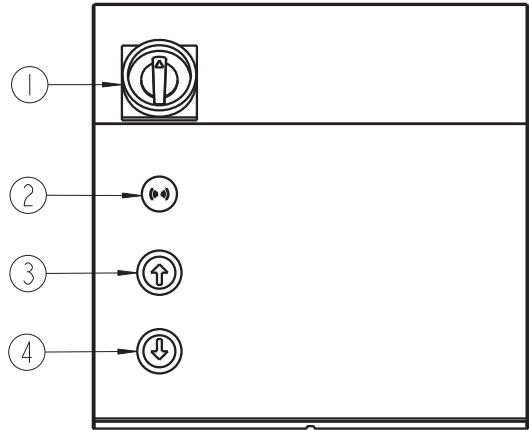
- Assure lift is fully lowered.
- Remove any rubber blocks used when raising the vehicle.
- Carefully remove vehicle from lift area.

14

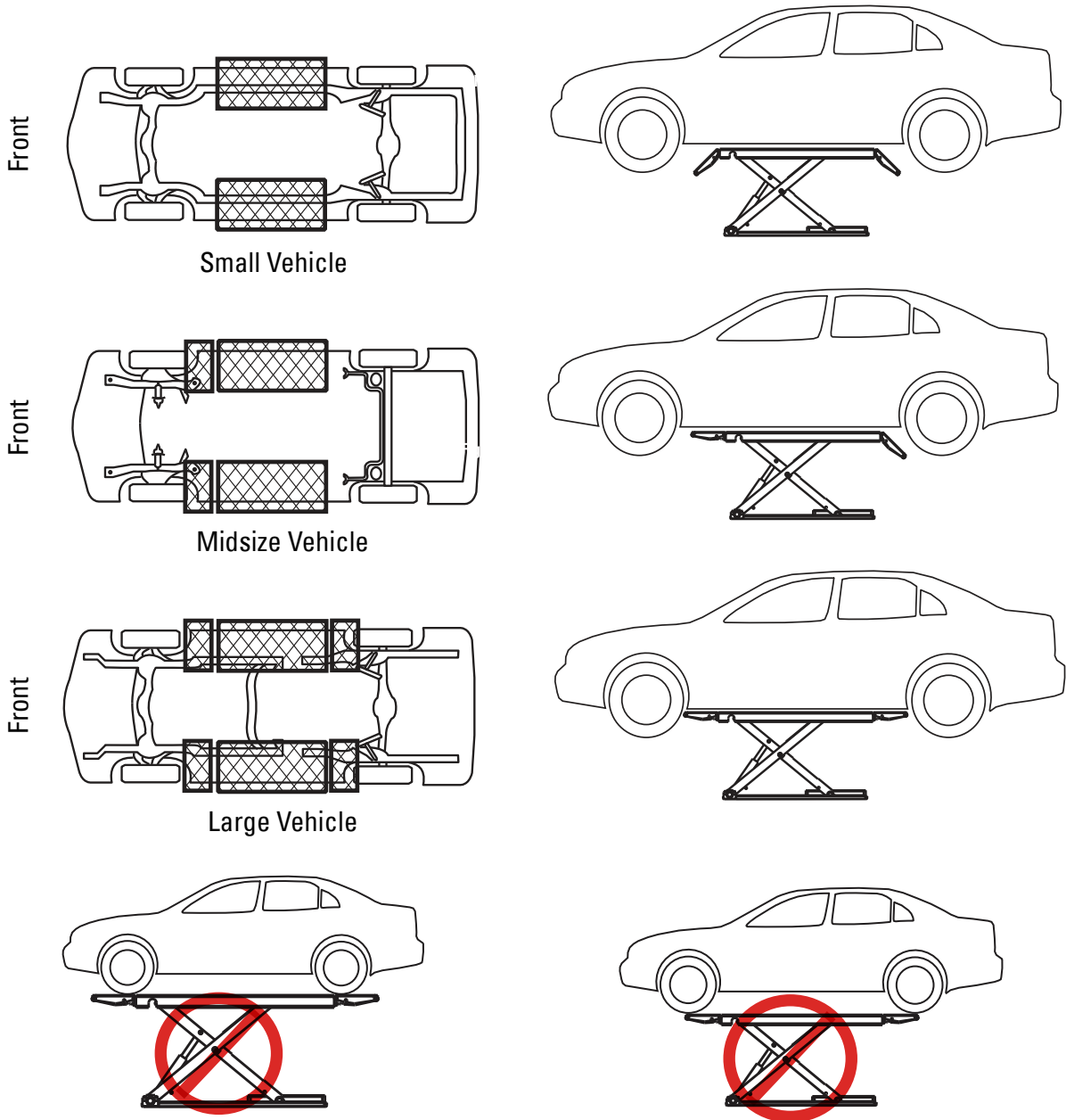


15

- 1. Power Switch
- 2. Buzzer
- 3. Raise Button
- 4. Lower Button



16



8. Maintenance

WARNING If you are not completely familiar with automotive lift maintenance procedures STOP:

Contact factory for instructions.

To Avoid Personal Injury, permit only qualified lift service personnel to perform maintenance on this equipment.

Use only original equipment manufacturer approved replacement parts for repairs.

- Always keep all bolts and nuts tight. Check periodically.
- Always raise lift when cleaning floor area.
- Always keep lift clean. Keep bottom weldment dry and free from corrosives such as salt and cleaning fluids.
- Daily: Inspect rubber blocks for damage or excessive wear. Replace as required with genuine Rotary parts.
- Weekly: Inspect all lift parts for signs of damage due to overloading and rough handling.
- Weekly: Empty water and refill oil as needed for filter regulator lubricants.
- Monthly: Lightly grease sliding surfaces and top cylinder clevis pin with all-purpose grease.
- Semi-Annually: Check fluid level of lift power unit while lift is fully lowered. Refill if required per fill line on tank. If fluid is required, inspect all hoses and seals. Repair or replace as required.
- Semi-Annually: Check anchor bolts to ensure they are torqued to 25ft.lbs.
- If lift stops short of full rise or chatters, check fluid level and purge both cylinders per lift installation instructions.
- Replace all CAUTION, WARNING, or SAFETY related decals on the lift if unable to read or missing. Reorder labels from Rotary Lift.
- Semi-Annually: If you have ordered the anchor bolts. Check anchor bolts to ensure they are torqued to 60Nm.
- If lift stops short of full rise or chatters, check fluid level and purge both cylinders per lift installation instructions.
- Replace all CAUTION, WARNING, or SAFETY related decals on the lift if unable to read or missing. Reorder labels from Rotary Lift.

9. Commissioning

9.1 Check Operation

Operate lift and assure that push button raises lift when pushed and stops lift when released. Check disconnect switches for cutting power to pushbuttons. Also check that limit switch stops lift from lowering when actuated.

Lubricate the surface of slide between the top platform and base frame before commissioning. It can be applied by brushing. This can significantly increase the service life of the lift.

9.2 Test the hydraulic system

1. Set the main switch to ON.
2. Move the unloaded lift to full rise and the bottom position several times using the Up and Down buttons. This will completely remove any air pockets in the hydraulic system.
3. Press up button to raise lift to full rise and keep motor running for 5 seconds. Stop and check all hoses connections. Tighten or reseal if required.
4. Carry out a visual inspection of the hydraulic and pneumatic system. In doing so, check all lines, especially the couplings. No leaks must be found.
5. Lower the lift completely and check the hydraulic oil level. This must also correspond to the maximum level.
6. Finally check that the hydraulic components are fitted securely.

10. Disposal

10.1 Environmental procedures for disposal

- Prevent environmental hazards.
- Avoid contact with or inhalation of toxic substances such as hydraulic fluid
- Oils and lubricants are water pollutants under the terms of the Water Management Act WGH. Always dispose of these in an environmentally friendly manner in compliance with the regulations which apply in your country.
- Hydraulic oil-based on mineral oil is a water pollutant and is combustible. Refer to the relevant safety data sheet for disposal.
- Provide suitable oil drain pans and oil absorbents to drain the oil.
- Ensure that no hydraulic oil, lubricants, or cleaning materials contaminate the soil or wash away into the drainage system.

10.2 Packaging

Do not dispose of with domestic waste! The packaging contains some recyclable material which must not be disposed of with domestic waste.

Dispose of packaging materials in compliance with local regulations.

10.3 Oils, grease, and other chemical substances

When working with oil, grease and other chemical substances, comply with the environmental regulations which apply to the relevant product.

Dispose of oil, grease and other chemical substances in compliance with the environmental regulations which apply in your country.

10.4 Metals / Electronic waste

This must always be properly disposed of by a certified company.

Do not dispose of electrical and electronic devices, accessories and batteries, separately as household waste.

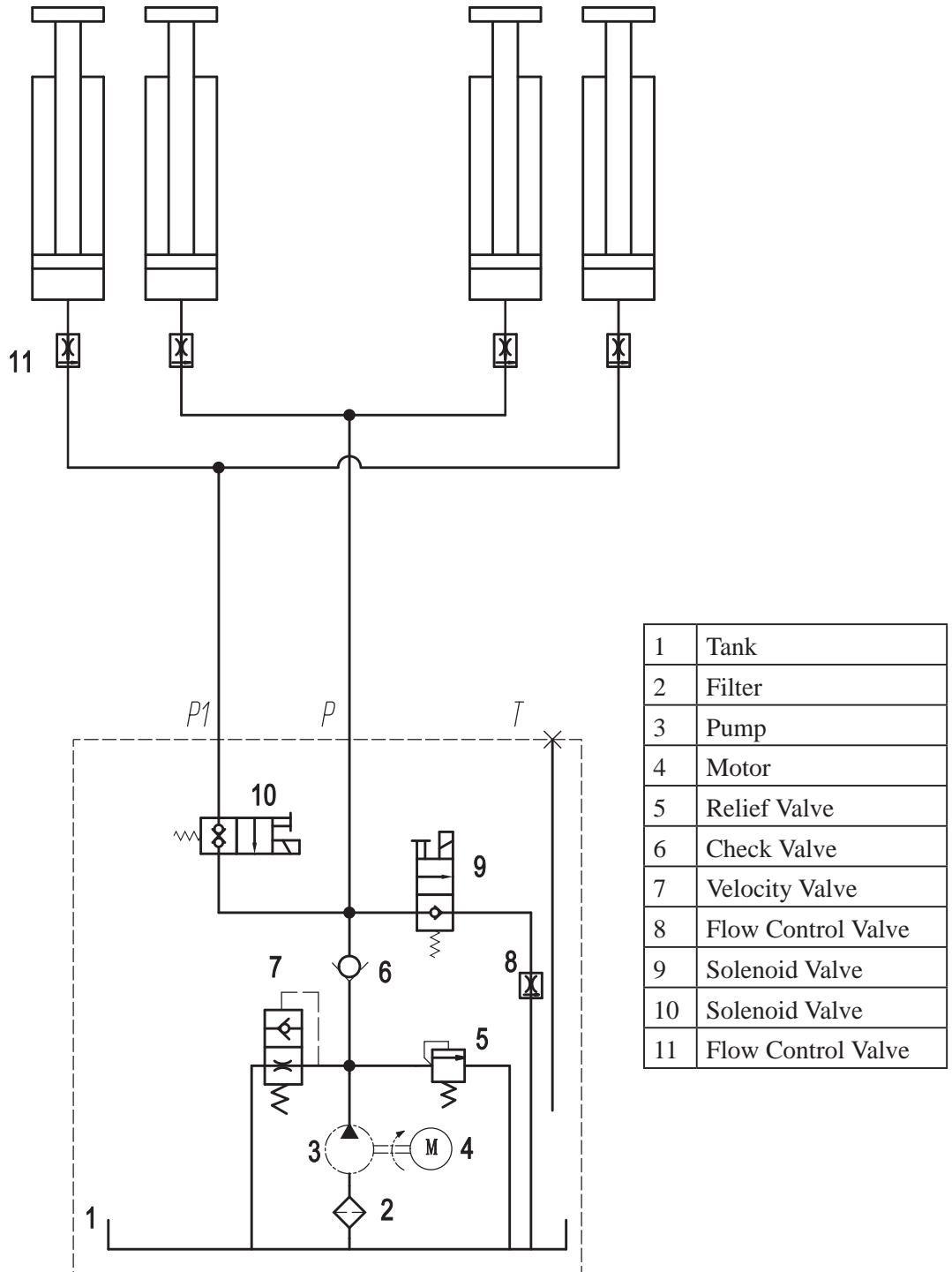


11. Trouble Shooting

Trouble	Cause	Remedy
Electric motor does not run.	<ol style="list-style-type: none">1. Blown fuse or tripped circuit breaker.2. Incorrect voltage to motor.3. Damaged wiring connections.4. The motor thermic switch is activated from overheating.	<ol style="list-style-type: none">1. Replace blown fuse or reset circuit breaker.2. Supply correct voltage to motor.3. Repair and insulate all connections.4. Wait for 10 minutes and try starting again; then, using a tester make sure contact is closed again.
Electric motor runs but will not raise lift.	<ol style="list-style-type: none">1. Motor runs in reverse rotation.2. Load too heavy.3. Low fluid level.4. Suction tube is clogged.	<ol style="list-style-type: none">1. Switch the phase and make sure motor turns in the direction indicated by the arrow.2. Check vehicle capacity.3. Fill tank with Dexron III ATF or ISO32.4. Check and clean.
Oil Blowing Out Fill-Breather Cap	<ol style="list-style-type: none">1. Oil Leak/Pump Failure.2. Incoming Motor Voltage Incorrect.3. Vehicle Weight and Balance Not Within Lift Capacity.	<ol style="list-style-type: none">1. External oil leak-locate and repair leak. Internal oil leak-have hydraulic system serviced by an authorized service representative.2. Supply correct voltage to motor, contact your local service authority.3. Use lift only to rated capacity.
Lift Fails to Raise When Pushing Raise Button	<ol style="list-style-type: none">1. Raise button defective.2. Vehicle weight and balance not within lift capacity3. Motor rotation incorrect.4. Incoming motor voltage incorrect or insufficient5. Loose or damaged wiring6. Blown fuse.	<ol style="list-style-type: none">1. Replace raise button.2. Use lift only at rated load.3. Switch the phase and make sure motor turns in the direction.4. Supply correct voltage to motor, contact your local service authority.5. Inspect and repair loose or damaged wiring.6. Check for blown fuse.
The lowering button is pressed but the lift does not lower.	<ol style="list-style-type: none">1. Obstacles blocking the lowering phase.2. Switch is off or power supply is interrupted.	<ol style="list-style-type: none">1. Remove the obstacles blocking the lowering phase.2. Check and supply power to lift.

Annex
Scissor lift
XS30N
Series 100

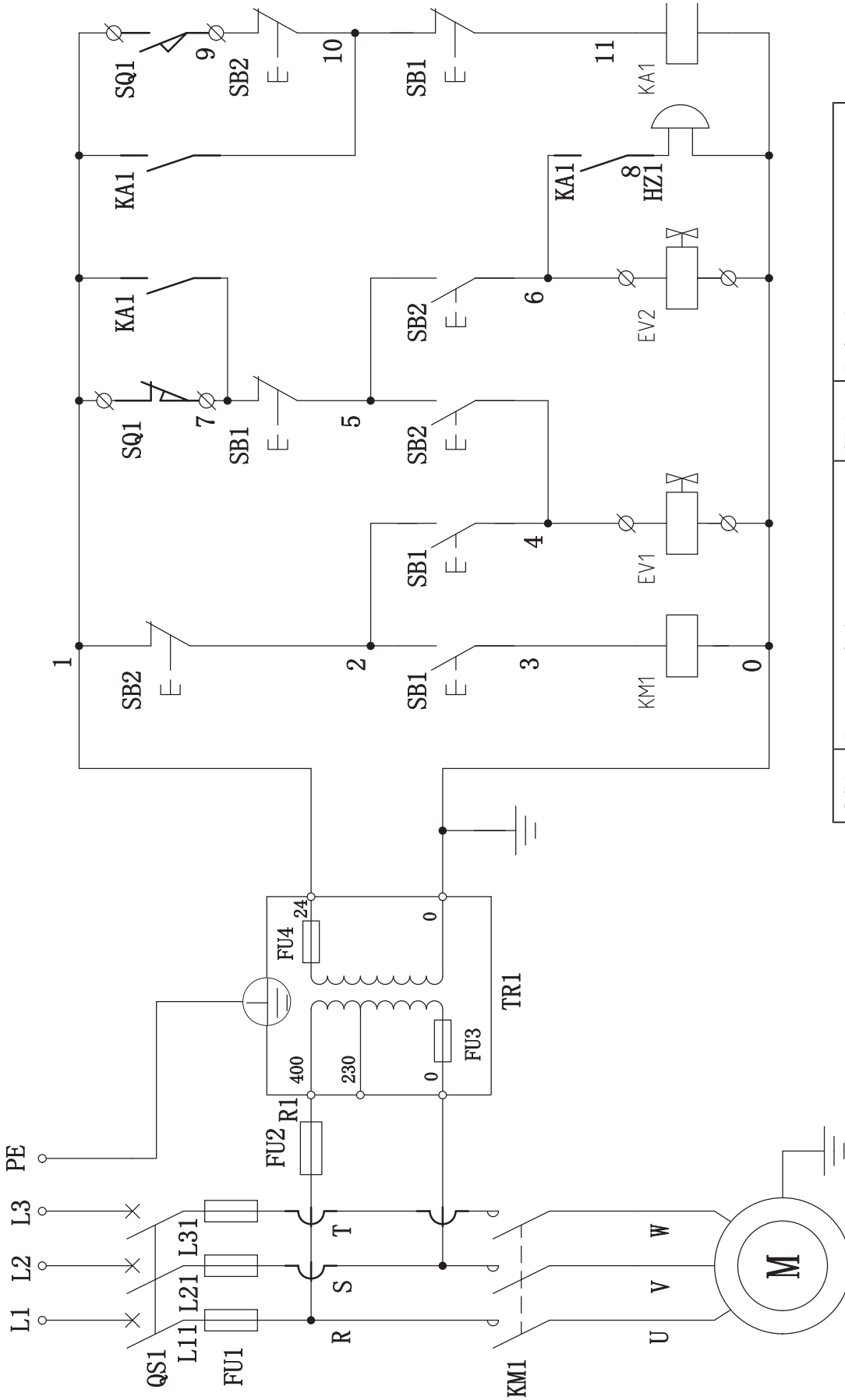
I. Hydraulic circuit diagram



HYDRAULIC SYSTEM DIAGRAM

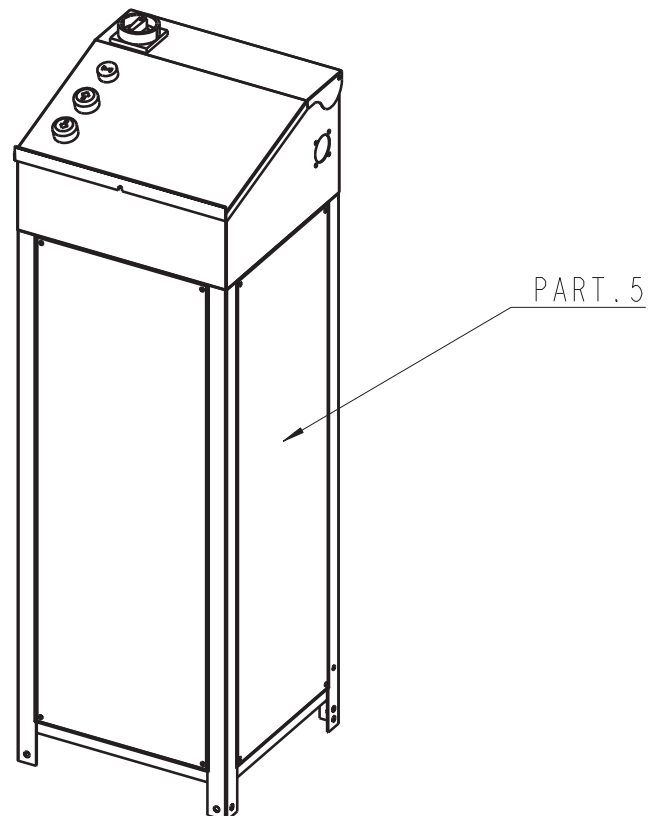
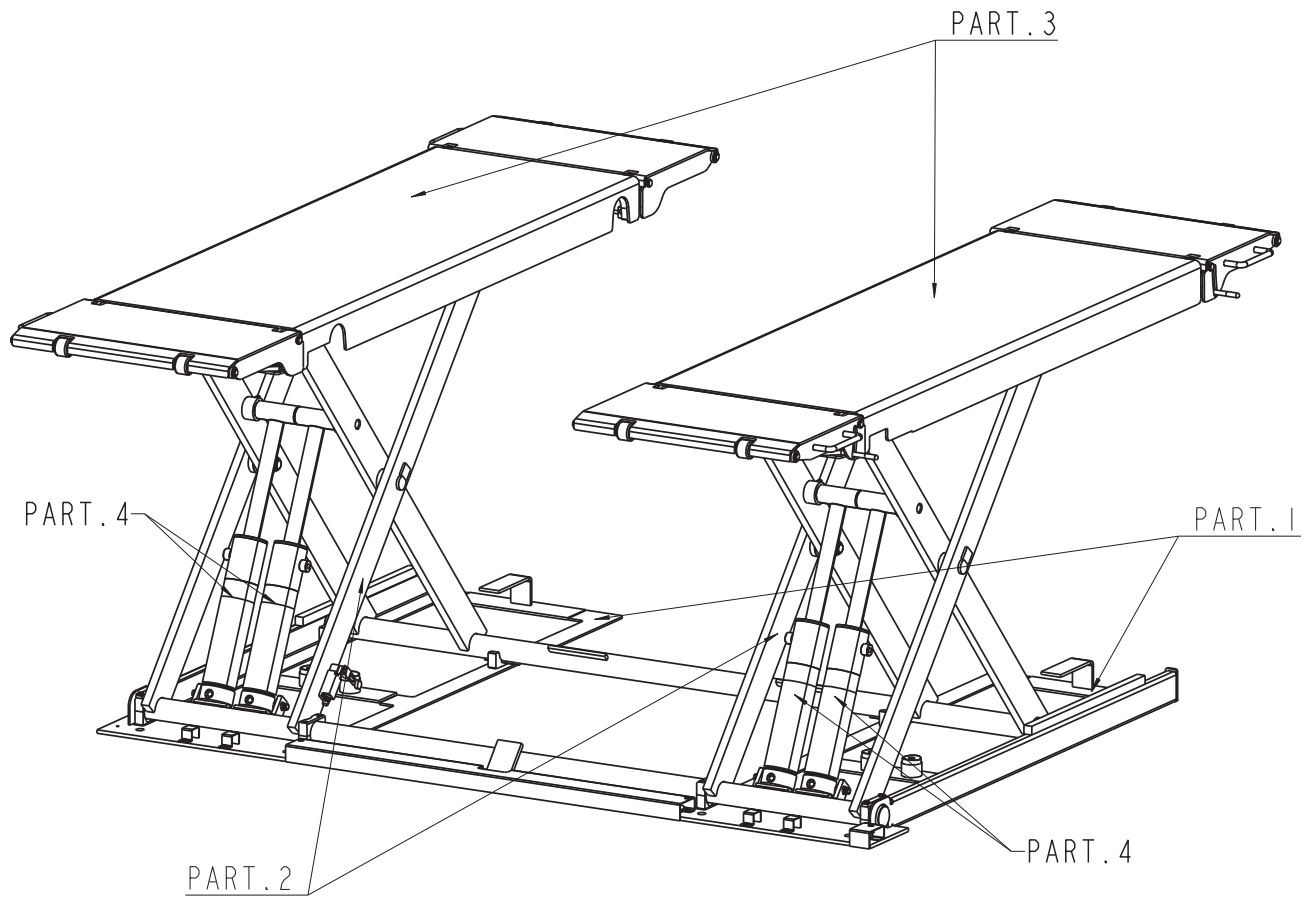
II. Electric wiring diagram

400V 3ph 50/60Hz



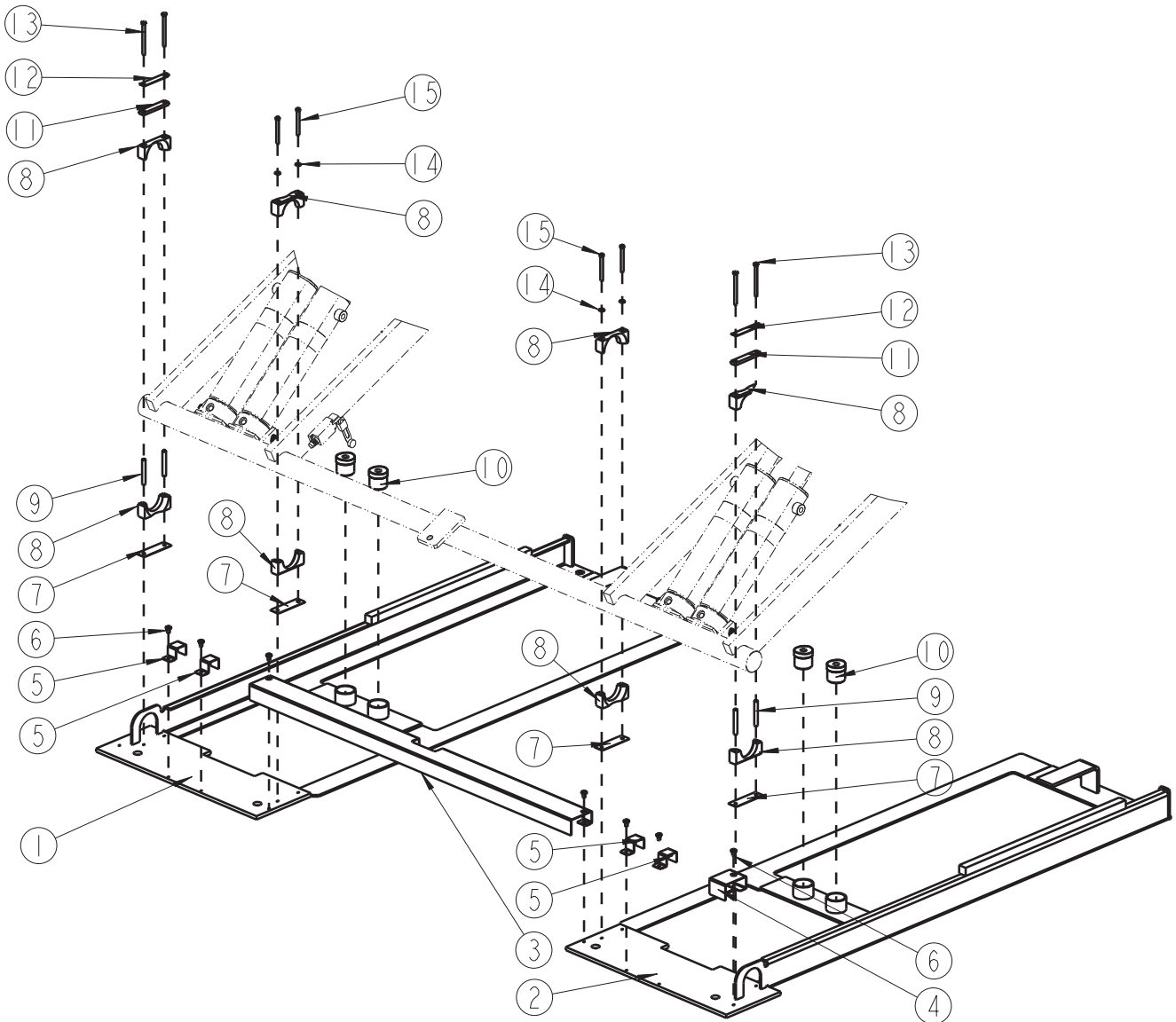
QS1	Power switch	SB1	Raise button
FU1	Fuse 16A	SB2	Lower button
FU2	Fuse 2A	HZ1	Buzzer
TR1	Transformer	EV1	Solenoid valve
KM1	Contactor	EV2	Solenoid valve
KA1	Intermediate relay	SQ1	Proximity switch (Low)
FU3	Fuse 1A	FU4	Fuse 3A

III. Parts Break Down



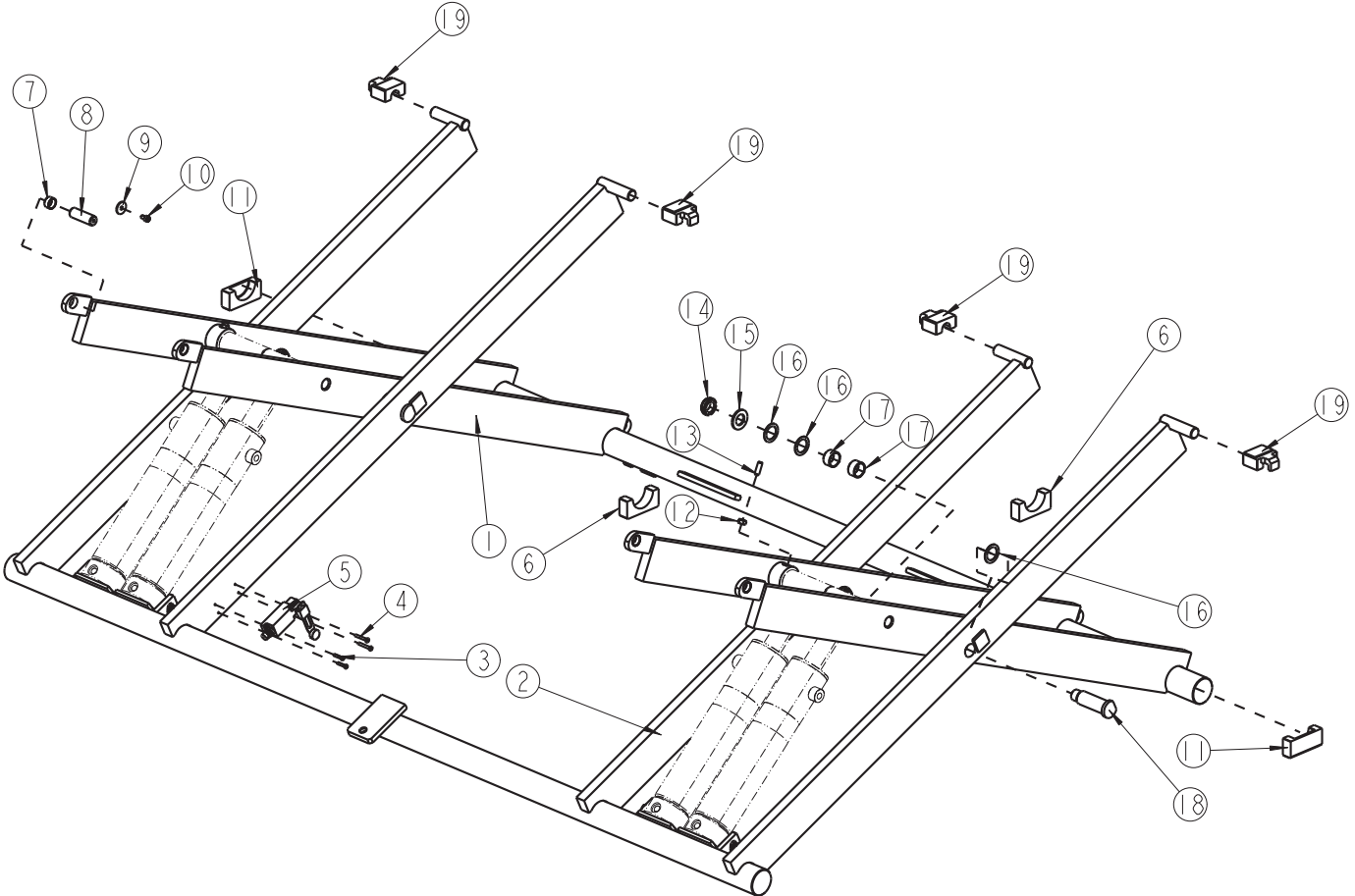
PART.1-Detail for XS30N

	PartNo.	Description	Qty
1	XS30-1500	Platform weldment	1
2	XS30-1600	Platform weldment	1
3	XS30-3001	Hose cover 1	1
4	XS30-3002	Hose cover 2	1
5	XS30-3003	Hose cover 3	4
6	B23-6X10	Cross recess pan head screw M6*10	7
7	057515940Y	Lower gasket	4
8	057510261Y	Nylon block	8
9	057515930Y	Shaft sleeve	4
10	RAV1450-0004	Rubber mat	4
11	057510390Y	Fixed plate	2
12	057515920Y	Upper gasket	2
13	B11-6X75	Hex head screw M6*75	4
14	B41-6	Flat washer $\phi 6$	4
15	B20-6X60	Hex socket head screw M6*60	4



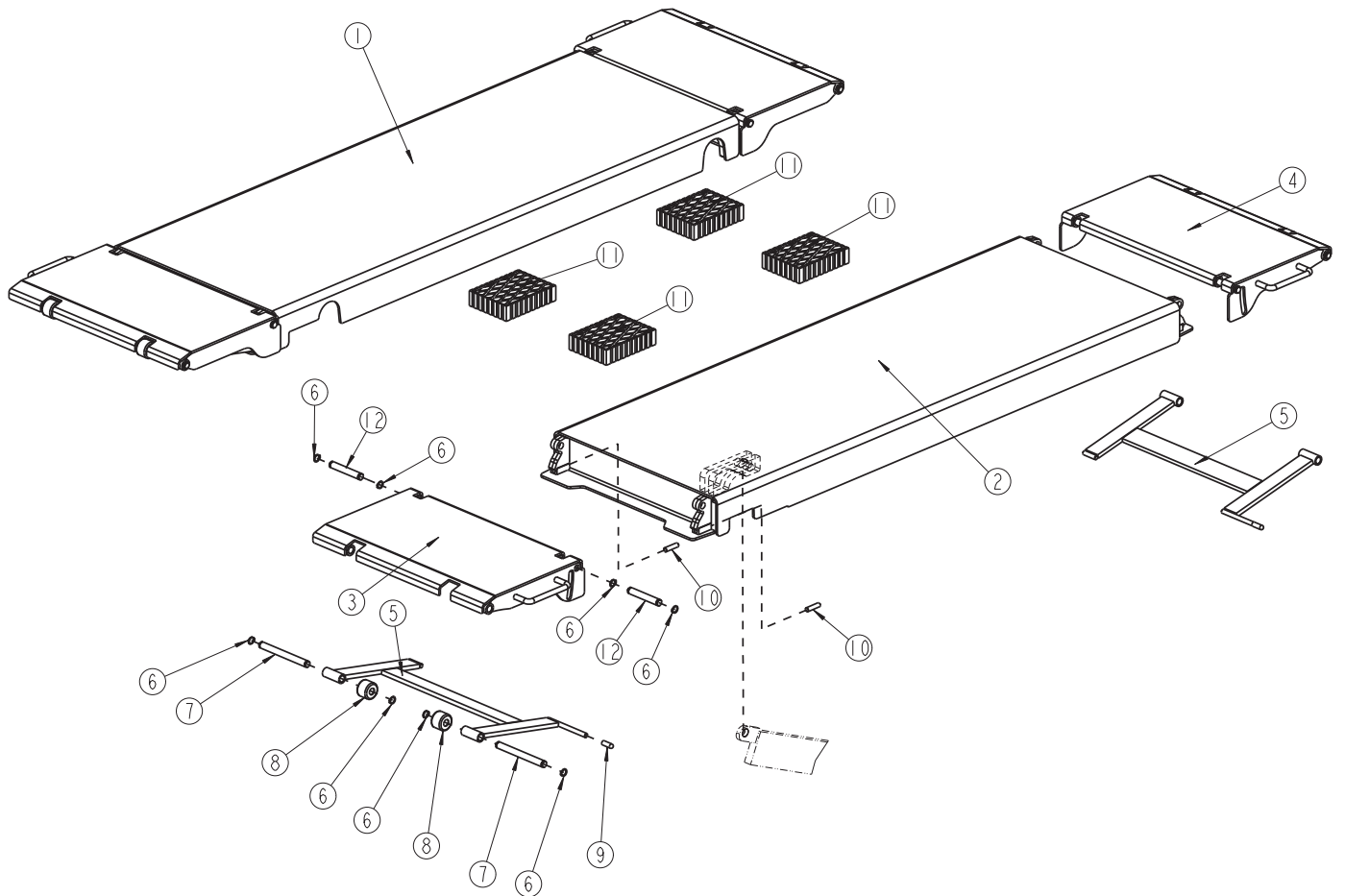
PART.2-Detail for XS30N

	PartNo.	Description	Qty
1	XS30-1300	Scissor leg weldment	1
2	XS30-1400	Scissor leg weldment	1
3	B23-4X20	Cross recess pan head screw M4*20	2
4	B23-4X30	Cross recess pan head screw M4*30	2
5	AZ-8108	Limit switch	1
6	057520410Y	Slider block (lower)	2
7	SF-1-1810	Bearing:18 dia * 10 long	4
8	XS30-2003	Platform pin	4
9	RAV1450-0001	Ring washer	4
10	B20-6X10	Hex socket head screwM6*10	4
11	057520500Y	Slider block (lower)	2
12	B30-8	Hex Nut M8	2
13	B22-8X25	Hex socket head screwM8*25	2
14	XG130007	Slotted round locknut M20*1.0	4
15	B41-20	Flat washer ϕ 20	4
16	RAV1450-0002	Ring washer	12
17	SF-1-2515	Bearing:25 dia * 25 long	8
18	058015112Y	Pin	4
19	XS30-2005	Slider block (upper)	4



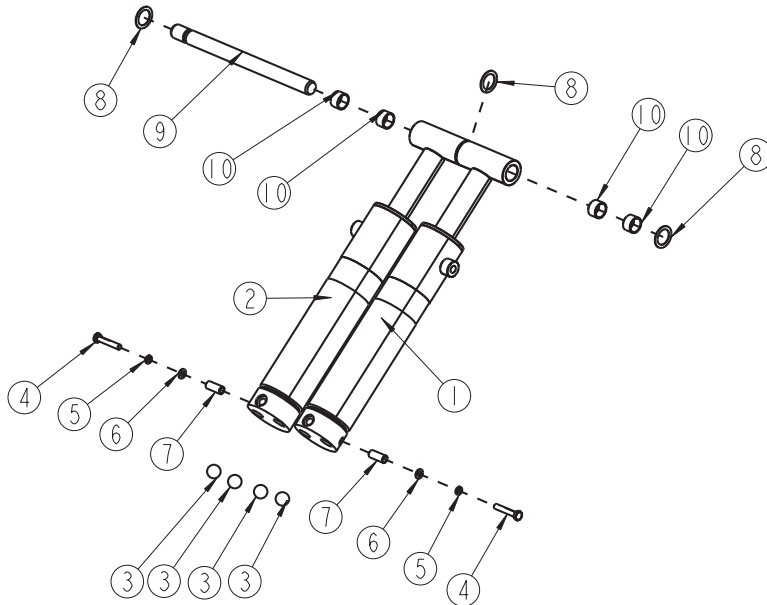
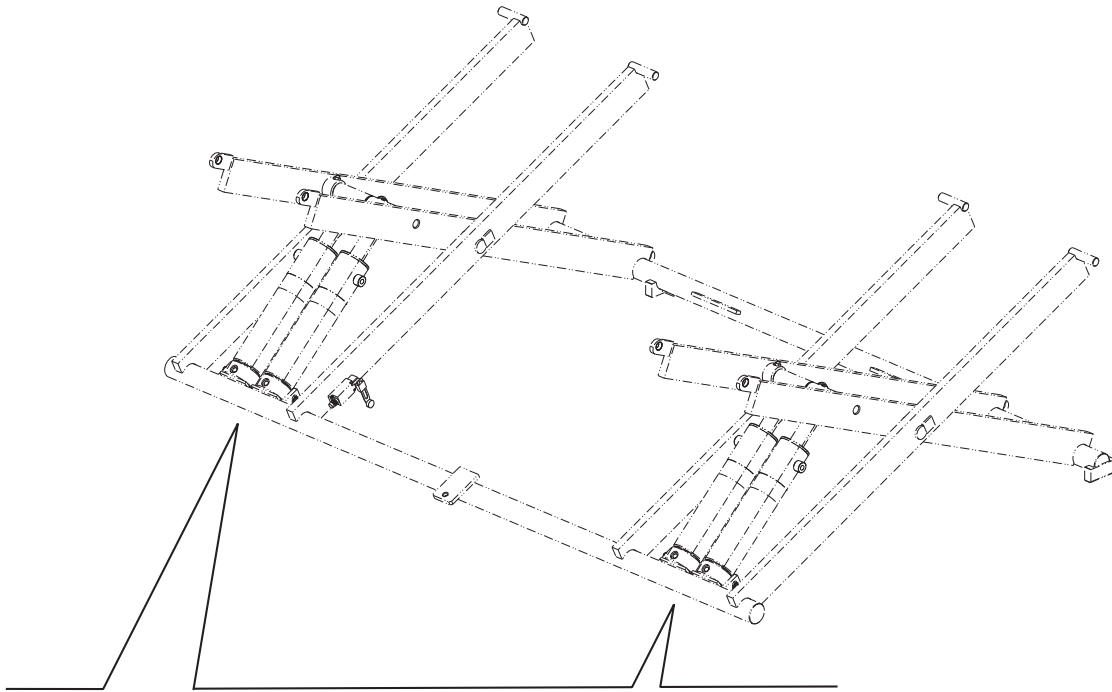
PART.3-Detail for XS30N

	PartNo.	Description	Qty
1	XS30-1100	Platform weldment	1
2	XS30-1200	Platform weldment	1
3	XS30-1700	Ramp weldment	2
4	XS30-1700DC	Ramp weldment	2
5	XS30-1800	Ramp support weldment	4
6	B60-15	Circlip $\phi 15$	32
7	057522520Y	Ramp roller shaft	8
8	057522770Y	Ramp roller	8
9	XS30-2004	Rubber sleeve	4
10	B21-10X40	Hex socket plain end set screw M10*40	8
11	FJ2427	Rubber mat	4
12	057522200Y	Ramp shaft	8



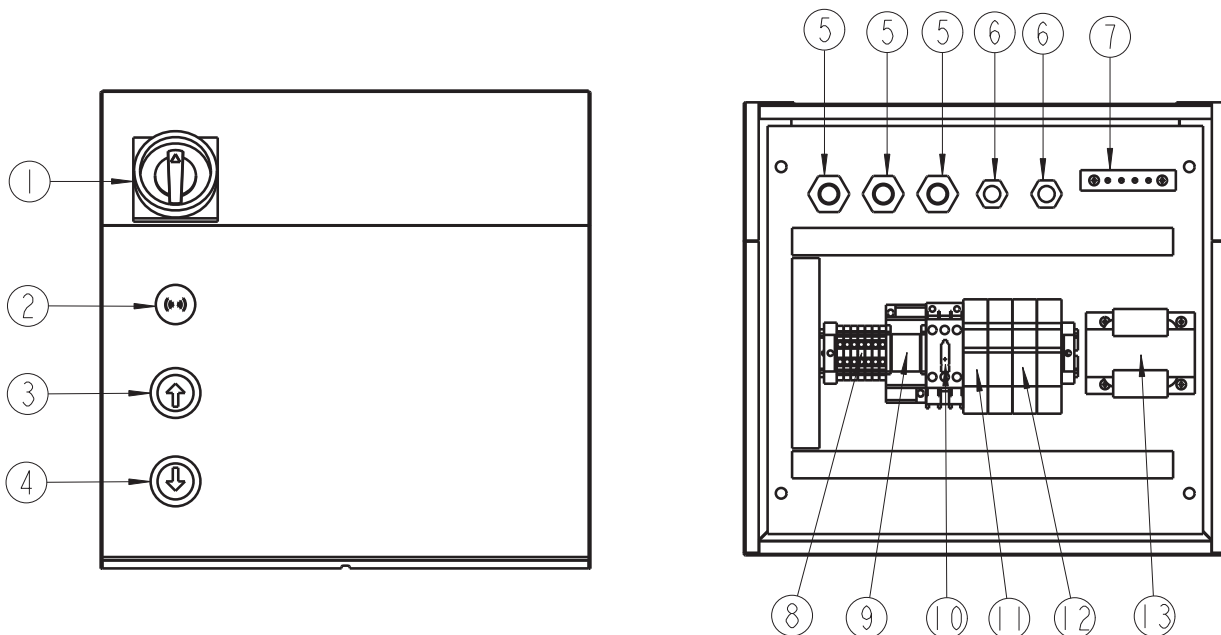
PART.4-Detail for XS30N

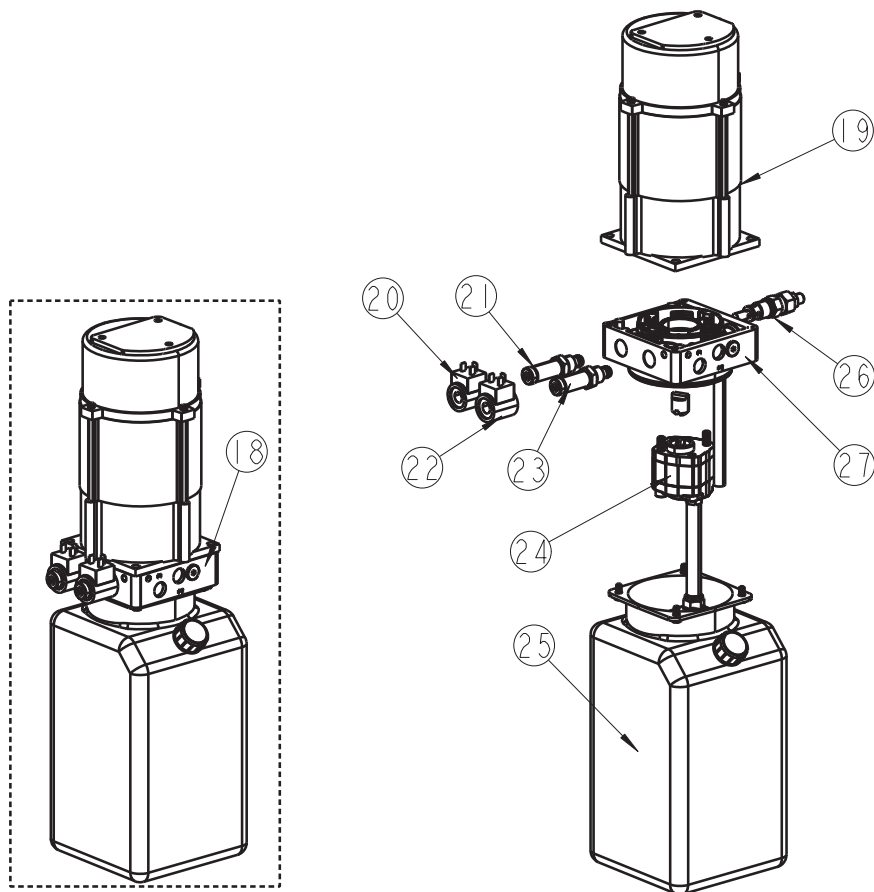
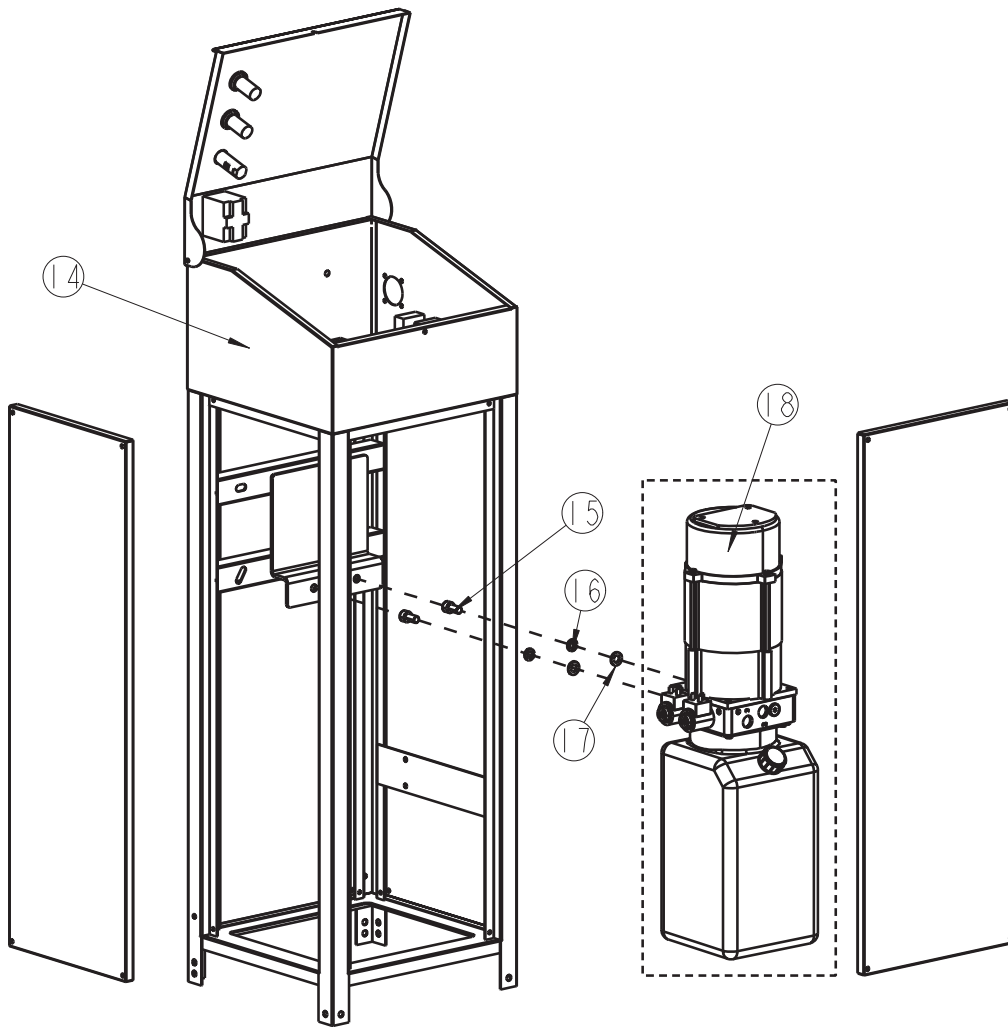
	PartNo.	Description	Qty
1	057501033	Cylinder	2
2	XS30N-9100	Cylinder	2
3	RAV1450-0003	Steel ball	4
4	B11-8X45	Hex head screw M8*45	4
5	B40-8	Lock washer $\phi 8$	4
6	B41-8	Flat washer $\phi 8$	4
7	057515820Y	Shaft sleeve	4
8	RAV1450-0002	Ring washer	6
9	XS30-2001	Pin	2
10	SF-1-2215	Bearing:22 dia * 15 long	8



PART.5-Detail for XS30N Control Box

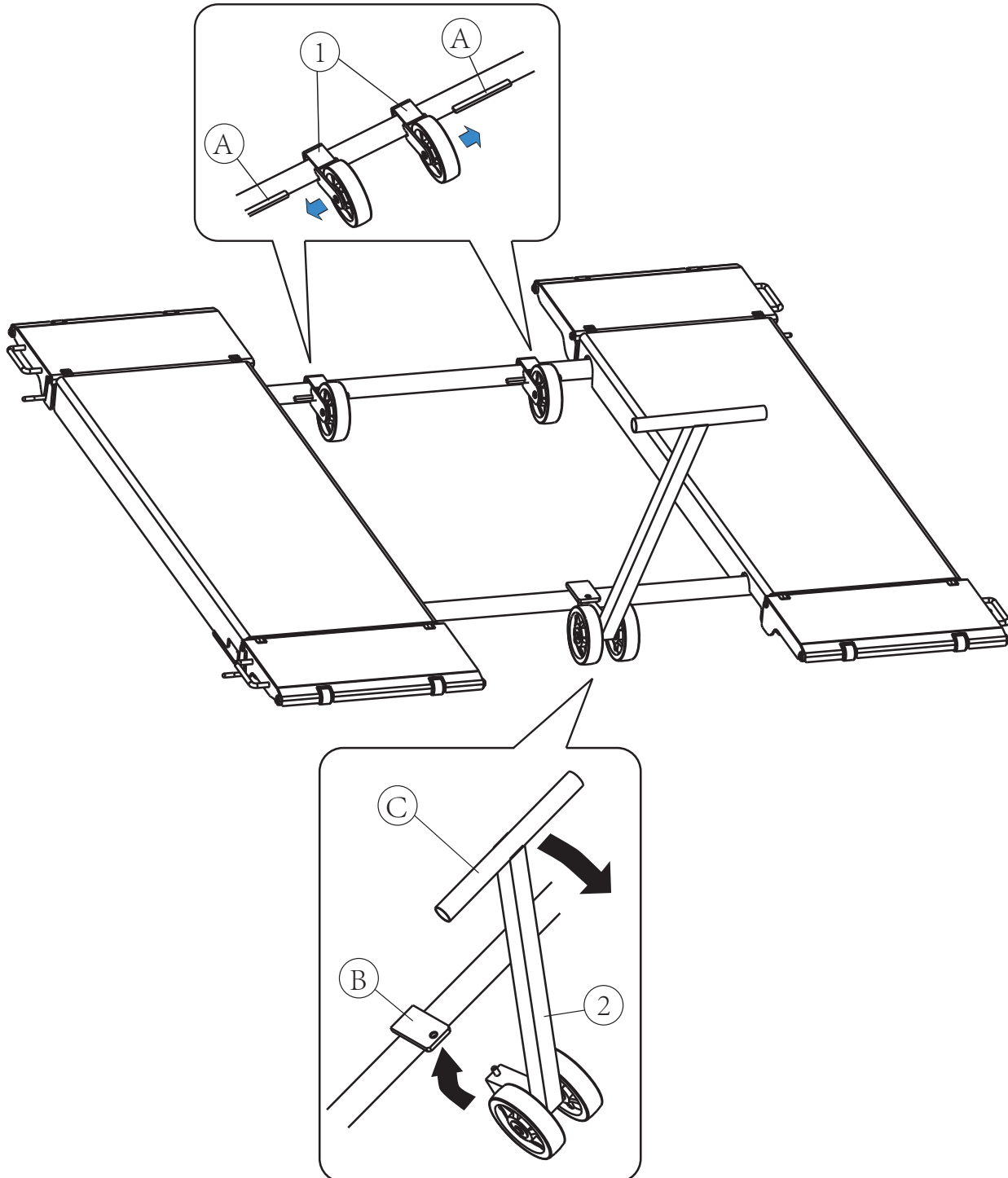
	PartNo.	Description	Qty
1	LW42B25-1016/LF101	Main switch	1
2	AD16-22M/K23	Buzzer	1
3	LA39-A2-22/K	Up button	1
4	LA39-A2-22/K	Lower button	1
5	PG13.5	PG13.5 Cable lock mother	3
6	PG9	PG9 Cable lock mother	2
7	PV-1030	Ground bar	1
8	XS30N-DQ-DZP	Terminal board	1
9	DRM570524LT	Relay	1
10	XTCG012B00B2	Contactor	1
11	LS501	Fuse Block	1
12	LS503	Fuse Block	1
13	JBK5-63VA 400/230/24V	Transformer	1
14	XS30-4100	4 side open control cabinet (steel parts)	1
15	B20-10X20	Hex socket head screwM10*20	2
16	B40-10	Lock washer $\phi 10$	2
17	B41-10	Flat washer $\phi 10$	2
18	PLA3014	3PH,50HZ,400V per unit	1
19	90003090	2.6KW motor	1
20	LC2-08-2H	Coil	1
21	LSV-05-2NCP-M	Solenoid valve 24VDC	1
22	LC3-10-C-2H	Coil	1
23	LSV-08-2NSP-LM	Solenoid valve 24VDC	1
24	CBKA-F8F	Gear pump	1
25	YBZ-SLYX-6L-L	Tank	1
26	LHRV-08-42	Relief valve	1
27	LBZ-T131FK-1	Manifold	1



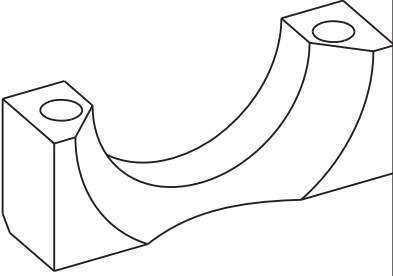
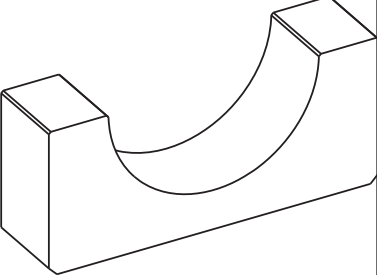
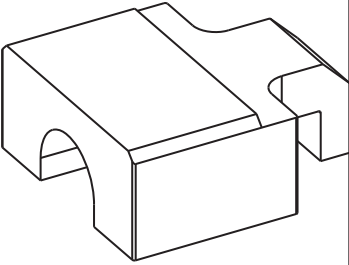
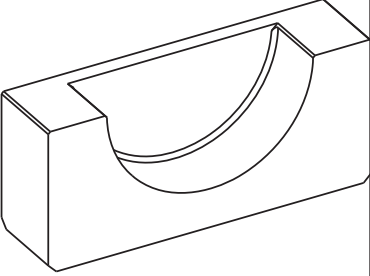
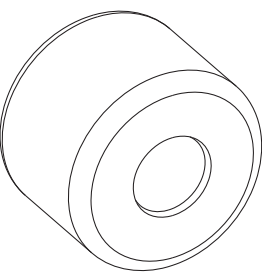
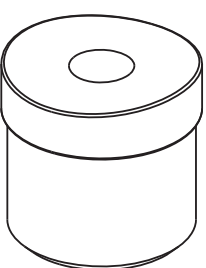


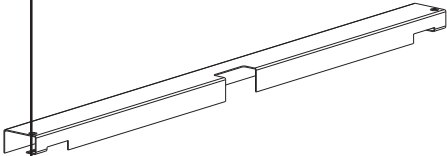
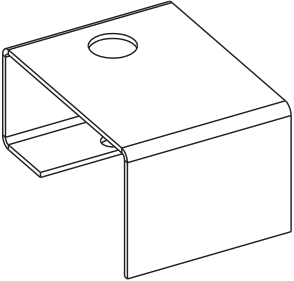
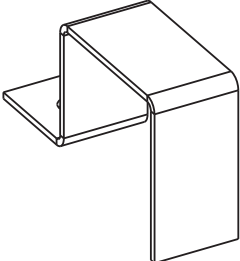
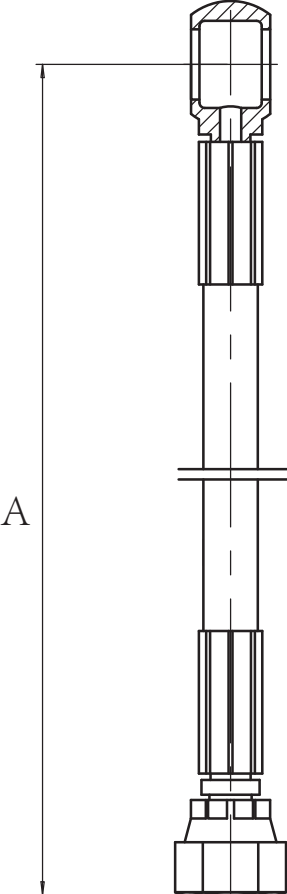
IV. Mobile Kit

	PartNo.	Description	Qty
1	MK-WJ01-9005	Back wheel	1
2	MK-WJ02-9005	Front hand lever	1
Fitting the wheels for lift translation			
1	Lift the platform to approx. 500 mm.		
2	Fit the two wheels (1) into the special brackets (A) as shown.		
3	Lower the lift to the ground.		
4	Insert the shaft (2) in the support as shown, move grip (C) in the direction arrowed.		



V. Spare Parts List

	Appearance	Part.NO	Description	Qty	Dim
1		057510261Y	Nylon block	8	
2		057520410Y	Slider block (lower)	2	
3		XS30-2005	Slider block (upper)	4	
4		057520500Y	Slider block (lower)	2	
5		057522770Y	Ramp roller	8	
6		RAV1450-0004	Rubber mat	4	

	Appearance	Part.NO	Description	Qty	Dim
7		XS30-3001	Hose cover 1	1	
8		XS30-3002	Hose cover 2	1	
9		XS30-3003	Hose cover 3	4	
10		XS30N-9801-1	Hydraulic hose 1	1	3000mm
		XS30N-9801-2	Hydraulic hose 2	1	3100mm
		XS30N-9801-3	Hydraulic hose 3	1	4430mm
		XS30N-9801-4	Hydraulic hose 4	1	4530mm

ATTACHMENT

**Protocol of installation
Completion Certificate**

Protocol of installation

BlitzRotary GmbH
Hiifinger Str.55
78199 Braunlingen,
Germany

The lift, designation (Address)... /

- After successful installation please filled completely this form, tick applicable points and sign the form.
- Copy the original and send them to the manufacturer within a week.
- Leave a copy in the test book.

The vehicle lift,

Type

Serial number:

was on

by the company

(Address)

.....

set up, checked for function and safety and put into operation.

The installation was carried out by the operator / Qualified person

the operator confirmed putting up the lift. All details of the operation. All information of the manual as well as the inspection book have been read and observed. These documents are available to the instructed operators at all time and are kept in an accessible place.

The expert (qualified person) confirms the correct installation of the lifting platform.

All information on the operating instructions and the inspection book have been read. The documents were handed over to the operator.

.....
Date Name of operator + company stamp Signature operator

.....
Date Name of qualified person Signature qualified person

.....
Customer service company

Completion certificate

The vehicle lift

Type

Machine -/serial number:

was on

by the company

(Address)

.....

installed, checked for function and safety and put into operation.

The following persons (operators) have been instructed in the handling of the vehicle lift by the trained installer of the manufacturer or contractor (expert) after the installation of the vehicle lift.

..... Date Name Signature operator
---------------	---------------	-----------------------------

..... Date Name Signature operator
---------------	---------------	-----------------------------

..... Date Name Signature operator
---------------	---------------	-----------------------------

..... Date Name Signature operator
---------------	---------------	-----------------------------

..... Date Name Signature operator
---------------	---------------	-----------------------------

..... Date Name Signature operator
---------------	---------------	-----------------------------

.....
Customer service company + company stamp

ATTACHMENT

Scissor Lift

XS30N

Maintenance schedule:
Notes for execution of the visual
and functional testing

Notes for execution of the visual and functional testing

In the scope of periodical inspections, the followings must be checked in particular:

1. Information on the lifting platform	Object to be checked
Nameplate Labeling Summary of the manual	Fastening Readability Completeness
2. Detailed operating instructions	Condition Readability
3. Warnings	Condition Noticeability
4. Protection against unauthorized use	Condition Function Mobility Safety key
5. Actuators	
Lifting, lowering Tilting, tipping Turning, pivoting Switching Opening and closing (of the loading tailgate) Driving Supports	Condition Function Mobility Clear assignment Permanent labeling of the direction of movement Protection against unintentional actuation Locking mechanism of the actuators with multiple controls
6. Emergency shutdown, Emergency drainage	Condition Function Mobility
7. Signalling devices, devices for communication	Condition Function Noticeability Reliability
8. Devices for the stable installation	
Spirit level Supports Spindles Bottom pan Elimination of the spring travel	Condition Function Mobility Wear Deformation Corrosion Cracks
9. Supporting structure	Cracks Deformation Corrosion Mobility of guides, pulleys, hinges, telescopes, Wear of guides, pulleys, hinges, fastening and securing of removable parts Effectiveness of locking mechanisms

10. Load suspension devices	
Protection against sliding Roll-off protection Holding device Protection of the hinged bracket	Condition Function
Safety fence	Condition Corrosion Fastening and securing of removable parts Effectiveness of locking mechanisms Mobility of movable parts
Ground	Surefootedness Deformation Corrosion Fastening and securing of removable parts
Parallel motion on operating platforms	Condition Function Wear Cracks Corrosion
Storable operating platform	Condition and effectiveness of the locking mechanism
Stairs	Surefootedness Deformation Corrosion Damage Fastening and securing of removable parts Welded connections
11. Steel wire rope Cable connections	Wear Corrosion Wire breakages Wire break nests Pinch points Loosening of the outer layer Bird-caging
Sheaves and pulleys	Cracks Signs of wear Burr formation in the groove Correct aligning of the groove
Rope winding Clamping device Securing at rope bearings Protection against coming off of the rope	Condition Function
12. Steel link chains, chain linkings	Mobility Wear Cracks Securing of the studs, e.g. by rivet head, ring

Chain wheels Sprockets	Condition Function
Clamping device Securing of the chain guide	Condition Function
13. Spindles	Storage Deformation Contamination Wear of the threads Notches Striations Grooves, applications Efficiency of the covering
Main nut	Wear of the thread (play)
Compensation ring	Bearing Condition Notches Striations
14. Racks	Fastening Wear Contamination Joints of jointed racks
Pinions	Cracks Wear Contamination Fastening and play of the spindle
15. Hydraulics	Leakage Leak test Venting
Oil reservoir	Condition and readability of the display Control of the oil quantity Efficiency of the shut-off device in case of lack of oil
Lines Line connections	Fastening Damages Deformation Corrosion
Hoses Hose connections	Fastening Damage Age Brittleness Porosity
Cylinders	Fastening Cracks Pipe connections and hose connections Tightness of the sleeves
Pistons	Surface of the piston rod Striations Contamination

Filters	External condition
Pressure control valve	External condition Lead seal undamaged
16. Pneumatics	
Lines Line connections	Leakage Fastening Damage Deformation Corrosion
Hoses Hose connections	Fastening Damage Age Brittleness Porosity
Cylinders	Fastening, cracks, pipe connections and hose connections Tightness of the sleeves
Pistons	Surface of the piston rod, striations, contamination
Relief valve	External condition, lead seal undamaged
Gauge, pressure reducer	External condition and effectiveness
17. Driving mechanisms (without bogie)	Connections of parts of the driving mechanism shock-free starting
Brakes, self-locking gearbox, couplings	Wear, effectiveness
18. Driving carriage, bogie	
Service brakes, emergency brakes	Wear, effectiveness
Drawbar protection	Condition, effectiveness
Positive guide, guide rail Rail joints, end stops, cow-catcher Protection against derailling	Deformation, cracks, condition of the fastening
19. Points of access and points of loading	Surefootedness, deformation of handrails, damage Corrosion, securing of removable parts
20. Electrical equipment	
Lines	Damage, fastening, strain relief of external lines
Protective earth	Damage, fastening
21. Insulation on aerial work platforms, as far as the aerial work platform is intended for work on or near unprotected, live parts of electrical installations	
Insulation work platform/lifting equipment as well as lifting equipment/driving carriage	Contamination, damage, insulation resistance
22. Special safety devices	
Emergency limit switch, slack rope switch, rope break switch, chain fracture switch, control locks, switch-off strips, restart protection, anti-tipping device (for stowable work platforms), safety catch, completeness	Effectiveness, fastening, condition Deformation, effectiveness of the switch elements, contamination, condition of pressure springs

These notes do not claim to be complete, and they must be matched to the lifting platforms to be examined.

ATTACHMENT
Scissor Lift
Inspection log

Inspection log for Scissor Lift

Type: _____

Serial number: _____

Year of construction: _____

Operator: _____

Day of first commissioning: _____

BlitzRotary GmbH
Hüfinger Straße 55
D-78199 Bräunlingen


Telephone +49.771.9233.0
Fax +49.771.9233.99
europe@rotarylif.com
www.rotarylif.com

Test Report

Of the examination before the first commissioning by technical expert / surveyor
The lifting platform underwent an examination regarding operational readiness on _____

The following/no*) faults found.

Test scope _____

Still pending _____

Partial tests

There are no*) reasons against continued operation, retesting is not*) required.

The technical expert/surveyor

(Place ,date)

(Signature)

Name and address
(in block letters) _____

Job title _____

Employed at _____

Operator or Representative

Deficiencies noted

(Place ,date)

(Signature)

Deficiencies fixed

(Place ,date)

(Signature)

Retesting

The lifting platform underwent retesting on _____

The deficiencies which were pointed out in the examination have not*) been fixed yet.

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The technical expert/surveyor

(Place ,date)

(Signature)

Name

and

address

(in block letters) _____

Job title _____

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(Signature)

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and

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Job title _____

Employed at _____

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(in block letters) _____

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(Signature)

Name and address

(in block letters) _____

Job title _____

Employed at _____

Operator or Representative

Deficiencies noted

(Place ,date)

(Signature)

Deficiencies fixed

(Place ,date)

(Signature)

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and

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(in block letters) _____

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(Signature)

Name and address

(in block letters) _____

Job title _____

Employed at _____

Operator or Representative

Deficiencies noted

(Place ,date)

(Signature)

Deficiencies fixed

(Place ,date)

(Signature)

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(Place ,date)

(Signature)

Name

and

address

(in block letters) _____

Job title _____

Employed at _____

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Test scope _____

Still pending _____

Partial tests

There are no*) reasons against continued operation, retesting is not*) required.

The technical expert/surveyor

(Place ,date)

(Signature)

Name and address

(in block letters) _____

Job title _____

Employed at _____

Operator or Representative

Deficiencies noted

(Place ,date)

(Signature)

Deficiencies fixed

(Place ,date)

(Signature)

Retesting

The lifting platform underwent retesting on _____

The deficiencies which were pointed out in the examination have not*) been fixed yet.

There are no*) reasons against continued operation, retesting is not*) required.

The technical expert/surveyor

(Place ,date)

(Signature)

Name

and

address

(in block letters) _____

Job title _____

Employed at _____

Test Report

Of the examination before the first commissioning by technical expert / surveyor

The lifting platform underwent an examination regarding operational readiness on _____

The following/no*) faults found.

Test scope _____

Still pending _____

Partial tests

There are no*) reasons against continued operation, retesting is not*) required.

The technical expert/surveyor

(Place ,date)

(Signature)

Name and address

(in block letters) _____

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(Signature)

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The technical expert/surveyor

(Place ,date)

(Signature)

Name

and

address

(in block letters) _____

Job title _____

Employed at _____

Vehicle Service GroupSM

2700 Lanier Drive
Madison, IN 47250, USA
1-800-640-5438
www.vsgdover.com



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