

Operating manual | Inspection book

Including spare parts list

Version: USA

Manual date: 29.11.2021

TOP LIFT TSK 12000 DJ
TOP LIFT 2.50 TTKAS DG

Serial No.:

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1 General informations

Important safety instructions – Save these instructions

1.1 Lift purpose

Nussbaum lifting systems are the result of over 35 years' experience in the automotive lifting industry. The high quality and superior concept ensures reliability, a long Lift life-time, and a strong economic business solution for your automotive lifting needs.

The TSK 12000 is a hydraulic symmetric In-Ground Lift with a lifting capacity of 12000 pounds.

The Lift features a powerful integrated power unit and hard-chromed cylinders. The maximum load distribution is 3000 lbs per arm.

1.2 Liability

To avoid unnecessary damage, injury or death, read all operating instructions carefully. Nussbaum is not liable for any damages, injuries, or deaths resulting from misuse of the Lift. The user carries the risk alone.

There will be no guarantee or liability for incidents involving injuries, death, or damage to equipment if these incidents are the result of one or more of the following:

- Inappropriate use of the Lift to include: Inappropriate installation, operation, and maintenance of the Lift.
- Use of the Lift while security devices are inoperative, not working properly, or are installed incorrectly.
- Failure to follow the operating instructions regarding transport, storage, installation, initiation, operation, and maintenance of the Lift.
- Unauthorized changes to the design and operation of the Lift.
- Wrong or incorrect maintenance practice.
- Catastrophes, acts of God, or external reasons.
- Nussbaum Lifts are warranted with the use of Nussbaum original or replacement parts. Use only replacement parts approved by the original equipment manufacturer or parts meeting original manufacturer specifications. Use of unauthorized parts may void the warranty. For parts, call Nussbaum at 1-704-864-2470.
- It should be recognized that any piece of equipment can be dangerous when operated improperly.

1.3 Owner/Employer responsibilities

Automotive lift institute safety requirements for operation, inspection and maintenance (ANSI/ALI ALOIM)

The Owner/Employer shall insure that lift operators are qualified and that they are trained in the safe use and operation of the lift: ALI/SM 10-1 safety manual; ALI/ST-17 ; ANSI/ALI ALOIM-2008 (R2013), American National Standard for Automotive Lifts-Safety Requirement for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in

case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts and SAE J2184, Vehicle Lifting Points for Service Garage Lifting.

The Owner/Employer shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM- 2000, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the employer shall insure that the lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

The Owner/Employer shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2000, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the employer shall insure that the lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

The Owner/Employer shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2008 (R2013), American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.

The Owner/Employer shall display the lift manufacturer's operating instructions; : ALI/SM 10-1, safety manual; ALI/ST-17; ANSI/ALI ALOIM-2008 (R2013), American National Standard for Automotive Lifts-Safety Requirement for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.

Additional owner/employer responsibilities

- Shall require that Personal Protective Equipment (PPE) be used according to the appropriate regulations.
- Shall display the "Safety Regulations" and adhere to them closely.
- Shall ensure that all safety- and danger signs on and around the Lift are observed and followed!
- Shall follow the specified time intervals between the recommended inspection and maintenance procedures and tests.
- Shall use only spare parts that comply with the technical requirements specified by the manufacturer.
- Shall ensure that loose screws, nuts, and bolts are firmly tightened after maintenance.
- Shall not modify the Lift without written consent of Nussbaum.
- Shall ensure that these instructions are maintained and available to all personnel that install, use or maintain the lift. This document contains important information about installation, operation, and maintenance of the automotive Lift. Any changes to the installation and or location of the automotive Lift must be documented.

1.4 Lift operator responsibilities

- Shall read and understand all safety and warning instructions in the manual or affixed to the lift.

- Shall be trained to operate and use the TSK 12000 DJ Lift for its designed use.
- Shall be familiar with accident prevention and basic labor safety regulations.
- Shall not allow unauthorized personnel to operate the Lift.

Information of warning

Pay close attention to the danger and important information symbols shown below. Carefully read all marked passages throughout this manual.



Danger! This sign indicates danger to life. Improper handling of the described operation may cause serious injury or death.



Caution! This sign warns against possible damage to the automotive Lift or other material defects in case of improper handling.



Attention! This sign indicates an important function or note.

1.5 Safety regulations

The Safety Regulations must be observed and strictly adhered to while working with the automotive Lift. Read the safety regulations and the ANSI/ ALI ALOIM manual included with the lift documentation carefully before working with the Lift!

Important safety instructions – read all instructions

- The total weight of the lifted vehicle must not exceed 12000 pounds.
- The automotive Lift must be in its lowest position, and the Lift Carry Arms must be swung out before a vehicle can be driven into the Lift area.
- Total load must be distributed evenly on all arms.
- The Lift must not be installed in a hazardous location or in washing bays.
- The Lift must be checked by a service technician after initial installation and after repairs or changes have been made to the Lift.
- The operating and maintenance instructions must be followed while working with the Lift.
- Pre-check low clearance or specially equipped vehicles for ample clearance to avoid damage to the vehicle and/or Lift.
- Only trained personnel are to operate the Lift.
- No one is to stand within the working area (danger area) during vehicle lifting and lowering operations.
- No one is to occupy a vehicle during any phase of Lift operation.
- No one is to climb onto the automotive Lift when in a raised position.
- For unusual vehicles you may choose to instruct the user to contact Nussbaum for lifting advice.
- The main electrical switch must be switched off and locked out or tagged out according to OSHA Regulations before maintenance or repair work is performed on the Lift.
- The operator must continue to observe the vehicle and Lift throughout the lifting or lowering operation.
- Check the center of gravity of the vehicle if heavy parts, such as the engine are removed.

- If heavy parts such as the engine must be removed, the center of gravity will change. Secure the vehicle before removing parts to avoid the possibility of the vehicle becoming insecure.
- **Read all instructions** before operating lift.
- Care must be taken as burns may occur from touching hot parts.
- Do not operate the Lift with a damaged cord or if the Lift has been damaged – until it has been examined by a qualified service person.
- To reduce the risk of fire, do not operate Lift in the vicinity of open containers of flammable liquids (gasoline).
- Adequate ventilation should be provided when working on operating internal combustion engines.
- Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- **Always wear safety glasses.** Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
- The proper positioning of the carrier plate below the vehicle is to be checked again after the vehicle has been raised slightly.
- After each set down of the vehicle, check the lifting arm positions below the fixture points again and adjust as required.
- When disassembling heavy, consider any possible center of mass shifts. The vehicle is to be appropriately secured using suitable materials (e.g. tensioning belts, beams, etc.) against falling.
- After design and maintenance on load bearing parts the lift must be inspected by a technical expert.
- Vehicles may only be attached at fixture points approved by the vehicle manufacturer.
- The entire lifting and lowering process is to be continuously observed.
- Initial access to the lift is only permitted after the main switch has been turned off and secured, and the operating lever is additionally secured against unauthorized use.

Save these instructions!

1.6 Safety devices

Nussbaum has designed several safety features into each Lift to ensure safe and efficient operations under a variety of conditions. Warranties will be voided and dangerous working conditions exist if any of the listed devices are altered or disabled.

- **Over-pressure valve**
Hydraulic system fuse against over-pressure.
- **Check valve**
Secure the vehicle against unauthorized lowering.
- **Main switch with curtain lock device**
Fuse to prevent unauthorized use.
- **Command / downstream system with latch**
Secure against unauthorized lowering of the lift.
- **Deadman controls**
Lift movement stops when the operating lever is released.
- **Lifting arm block**
Secures the lifting arm against horizontal movement in a lifted condition.

1.7 Safety labels affixed to lift

SAFETY WARNING LABELS FOR INGROUND LIFTS

Lift Owner/User Responsibilities:

- A. This Safety Warning placard **SHALL** be displayed in a conspicuous location in the lift area.
- B. Use one of the mounting arrangements illustrated on back of this placard.
- C. These Safety Warning labels supplement other documents supplied with the lift.
- D. Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.

 Do not override self-closing lift controls.	 DO NOT remove oil fill plug before reading manufacturer's manuals.	 Position vehicle center of gravity over lift.	 Remain clear of lift when raising or lowering vehicle.	 Keep feet clear of lift while lowering.
 Clear area if vehicle is in danger of falling.	 Avoid excessive rocking of vehicle while on lift.	 Chock wheel to prevent vehicle movement.	 Use lift locking device or 4 stands to support vehicle.	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.</p> <p>Replacement label sets may be obtained from the original lift manufacturer and ALI's member companies.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 85, Cortland, NY 13045. These labels are protected by copyright.</p> <p>www.autolift.org ©2006-2017 ALI/WL500</p>

TYPICAL PLACARD LOCATIONS

 Wall Mounted Lift Control	 Air Supply To Lift	 Push Button Controls on Electric Powered Lifts	 In-floor Lift Controls: Locate placard on wall or column in lift area near lift controls.
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 Lift to be used by trained operator only.	 Authorized personnel only in lift area.	 Use vehicle manufacturer's lift points.	 Always use safety stands when removing or installing heavy components.	 Use height extenders when necessary to ensure good contact.
 Auxiliary adapters may reduce load capacity.	 Read operating and safety manuals before using lift.	 Proper maintenance and inspection is necessary for safe operation.	 Do not operate a damaged lift.	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.</p> <p>Replacement label sets may be obtained from the original lift manufacturer and ALI's member companies.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 85, Cortland, NY 13045. These labels are protected by copyright.</p> <p>www.autolift.org ©2006-2017 ALI/WL500</p>

Read all labels and verify that all authorized users fully understand the meaning of each caution /warning / safety instruction. Do not remove or deface safety labels from the lift.

Typical Placard locations

Placards:

SAFETY WARNING LABELS FOR INGROUND LIFTS
Lift Operators or Responsibilities:

A WARNING Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A WARNING Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A WARNING Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A WARNING Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A WARNING Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A WARNING Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.
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AL/ML500 A

Typical Placard Locations

A CAUTION Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A CAUTION Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A CAUTION Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A CAUTION Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A CAUTION Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.	A CAUTION Do not touch the hoisted lift car or any other part of the lift structure while the lift is in motion.
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AL/ML500 B

TSK 8000:

"IF CONNECTED TO A CIRCUIT PROTECTED BY FUSE, USE THE RELAY FUSES MARKED 'F'."

"CAUTION" - RISK OF ELECTRIC SHOCK, DO NOT REMOVE OR REPLACE COMPONENTS OF THE EQUIPMENT WITHOUT QUALIFIED SERVICE PERSONNEL.

"ATTENTION" - RISQUE DE CHOC ELECTRIQUE, NE PAS ENLEVER LES COMPOSANTS A MOINS D'AVOIR LE SERVICE QUALIFIE APPROPRIE.

"WARNING" - RISK OF EXPLOSION. THE EQUIPMENT HAS INTERNAL ARCHING OR SPARKING POINTS WHICH SHOULD NOT BE EXPOSED TO FLAMMABLE VAPORS. IT SHOULD NOT BE USED IN AREAS WHERE FLAMMABLE VAPORS OR GASES ARE PRESENT.

"ATTENTION" - RISQUE D'EXPLOSION. L'APPAREIL CONTIENDES DES PARTIES INTERIEURES QUI NE DOIVENT PAS ETRE EXPOSEES A DES VAPEURS INFLAMMABLES. IL NE DOIT PAS ETRE PLACE DANS UNE ZONE CONTENANT DES VAPEURS INFLAMMABLES OU DES GAZ.

Duty Cycle: 45 s ON – 9 min OFF

TSK 12000:

"IF CONNECTED TO A CIRCUIT PROTECTED BY FUSE, USE THE RELAY FUSES MARKED 'F'."

"CAUTION" - RISK OF ELECTRIC SHOCK, DO NOT REMOVE OR REPLACE COMPONENTS OF THE EQUIPMENT WITHOUT QUALIFIED SERVICE PERSONNEL.

"ATTENTION" - RISQUE DE CHOC ELECTRIQUE, NE PAS ENLEVER LES COMPOSANTS A MOINS D'AVOIR LE SERVICE QUALIFIE APPROPRIE.

"WARNING" - RISK OF EXPLOSION. THE EQUIPMENT HAS INTERNAL ARCHING OR SPARKING POINTS WHICH SHOULD NOT BE EXPOSED TO FLAMMABLE VAPORS. IT SHOULD NOT BE USED IN AREAS WHERE FLAMMABLE VAPORS OR GASES ARE PRESENT.

"ATTENTION" - RISQUE D'EXPLOSION. L'APPAREIL CONTIENDES DES PARTIES INTERIEURES QUI NE DOIVENT PAS ETRE EXPOSEES A DES VAPEURS INFLAMMABLES. IL NE DOIT PAS ETRE PLACE DANS UNE ZONE CONTENANT DES VAPEURS INFLAMMABLES OU DES GAZ.

Duty Cycle: 85 s ON – 9 min OFF

1.8 Protocols

Technical documentation contains important information for safe operation and for retaining functional safety of the lift.

- To verify lift set up, the assembly protocol form is to be completed, signed and sent to the manufacturer.
- Forms are available in this inspection book for use in verifying single, regular and extraordinary safety checks. Use the forms to document inspections and leave the completed forms in the inspection book.
- The lift master forms must record changes to the construction or changes to set up location.

1.9 Set up and test the lift

Safety relevant work on the lift and safety inspections may only be done by personnel specifically trained to carry it out. They are designated in general and in this documentation as technical experts and specialists (competent people).

- Technical experts are people (freelance expert engineers, TÜV specialists) that may inspect and assess due to their education and experience with lifts. They are knowledgeable in the appropriate work safety and accident prevention regulations.
- Specialists (competent people) are people who have sufficient knowledge and experience with lifts and have participated in a special factory training by the lifts manufacturer.

Set up protocol

! *After successful set up, complete this form fully, sign it, make a copy and send the original to the manufacturer within a week. The copy remains in the inspection book.*

Nussbaum Automotive Solutions, LP
1932 Jordache Court
Gastonia, NC 28052
Fax: 1-704-864-2476
Email: warranty@nussbaum-usa.com

The lift with serial number..... Was set up on (date)

at (company name)..... in.....

checked for function and safety and put into operation.

The set up was done by the operating company / specialist
(score out the one that does not apply).

The operating company confirms proper lift set up, has read and will comply with all information contained in this operating manual and inspection book, and will keep this document accessible to trained operators at all times.

The specialist confirms proper lift set up, has read all information in this operating manual and inspection book, and has transferred the documents to the operating company.

.....
Date	Name, operating company & company stamp	Operating company signature

.....
Date	Name, specialist	Signature of specialist

Service partner:.....

Transfer protocol

The lift

with serial number..... was set up on

at (company name)..... in.....

checked for function and safety and put into operation.

The following listed people (operators) were trained to handle the lift after it was set up by a trained assembler of the manufacturer or a contract partner (specialist).

(Date, name, signature, empty lines must have a scored out)

.....
Date Name Signature

.....
Date Name Signature

.....
Date Name Signature

.....
Date Name Signature

.....
Date Name Signature

.....
Date Name, specialist Signature of specialist

Service partner:.....

2. Lift master forms

2.1 Manufacturer

Nussbaum Custom Lifts GmbH
 D-77694 Kehl-Sundheim, Germany
 Tel.: +49 78 53 899 100
 www.nussbaumlifts.com
 info@nussbaum-group.de

2.2 Purpose

The Nussbaum lift TSK 12000 is for raising vehicles in normal workshop operations with a total weight of 12000 lbs (5000 kg).
 The setup of the standard lift is not permitted in explosion endangered workshops. After construction and significant maintenance changes on load carrying parts, as well as changing the installation location, the lift must be inspected afterwards by a specialist who approves the changes. The lift is not set up for moving people.

2.3 Changes to the design / construction

Inspections by a technical expert are required before recommissioning (date, type of change, technical expert signature).

.....

Name, address of technical expert

.....
 Location, date

.....
 Technical expert signature

2.4 Changing the assembly location

Inspections by a technical expert are required before recommissioning (date, type of change, specialist signature)

.....
 Name, address of technical expert

.....
 Location, date

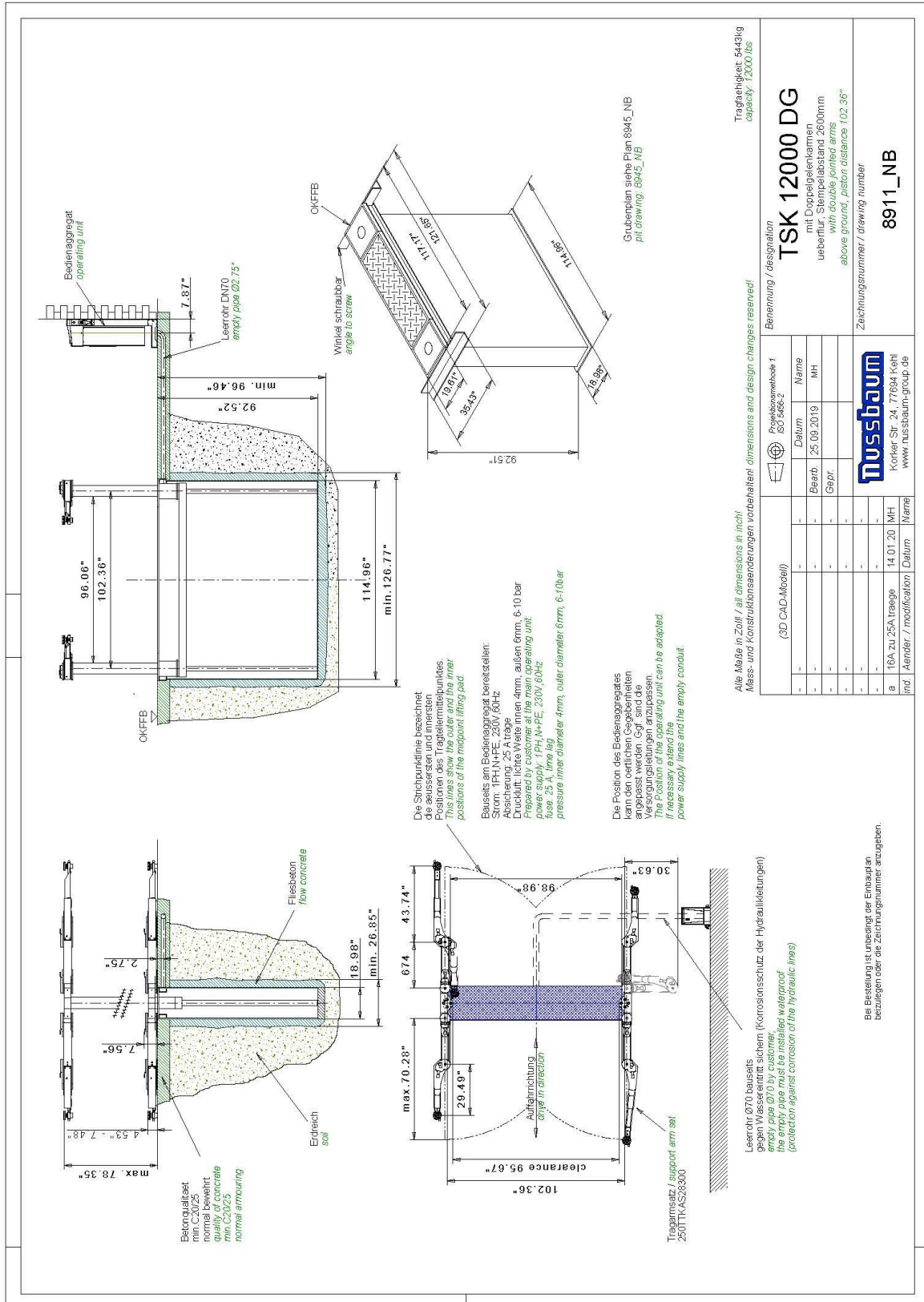
.....
 Technical expert signature

3. Technical information

3.1 Technical data

Load bearing capacity:	12.000 lbs (5000 kg)
Loading a lifting arm:	A single load from only one lifting arm may not happen
Lift time	approx. 80 sec
Lowering time	approx. 51 sec
Motor capacity	2 HP
Motor speed	3450 rpm
Operating pressure	approx. 2200 psi (152 bar)
Pressure relief valve	approx. 2610 psi (180bar)
Oil volume	approx. 4 GAL
Noise level	≤ 70 dB(A)
One-site connection	1 ~/N+PE, 230 V, 60 Hz with maximum 25 Amp fuse

3.2 Data sheet



Alle Maße in Zoll / all dimensions in inch
Mess- und Konstruktionsänderungen vorbehalten! dimensions and design changes reserved!

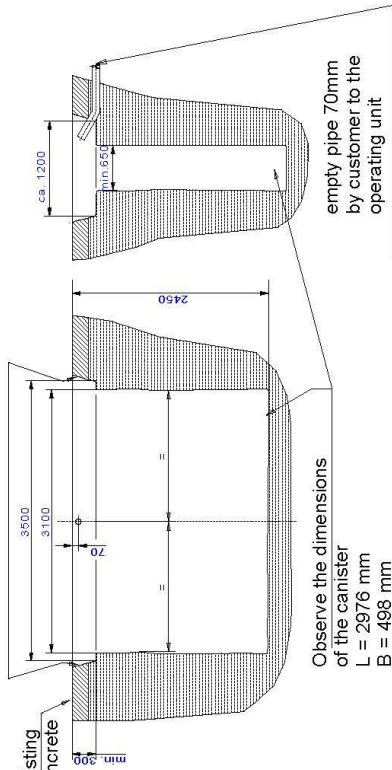
Tragfähigkeit: 5443kg
capacity 12000 lbs

Benennung / designation		TSK 12000 DG	
Probestrichmethode 1		mit Doppelstapeln above ground, piston distance 102.36"	
(3D CAD-Modell)		ISO 5456:2	
Datum	Name	Bearb.	MH
25.09.2019		Gepr.	
Zeilenummer / drawing number		8911_NB	
Ind.		Name	
a	16A zu 25A-träge	Datum	
		14.01.20	

Nussbaum
Körber Str. 24, 77634 Kehl
www.nussbaum-group.de

Foundation:

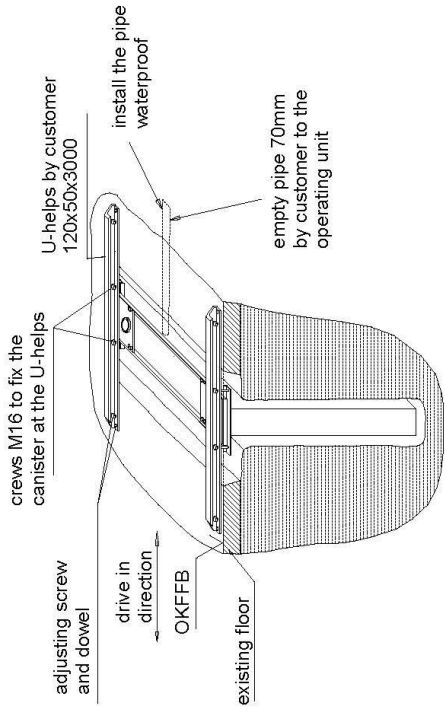
This surface must be roughened up or otherwise to be prepared to ensure a good connection with the concrete. It is also possible to use extra steel extensions at the connection surface.



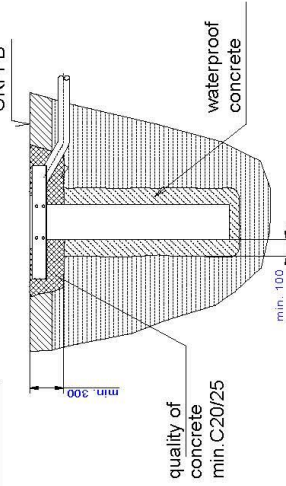
Built in steps:

1. Foundation: use waterproof concrete. Position the empty pipe to the operating unit.
2. Hand up the Canister: adjust the upper edge of the canister exactly OKFFB +/-0. Use the adjusting screws and the dowel at the U-Profile to adjust the canister. Before the canister is concreted, the canister must be inside reinforced with for an example wood.
3. Concreted the foundation in several steps. First step 20-30cm (prevents the swimming of the canister) Check the position of the canister again. Fill in the concrete slowly. Do not compress the concrete!
4. By customer: electric cable to the operating unit standard: 1Ph, N+PE, 230V, 60Hz, 25A fuse Observe the electrical supply of your country air pressure inner diameter 4mm / outer diameter 6mm, 6-10bar


Canister in the pit:

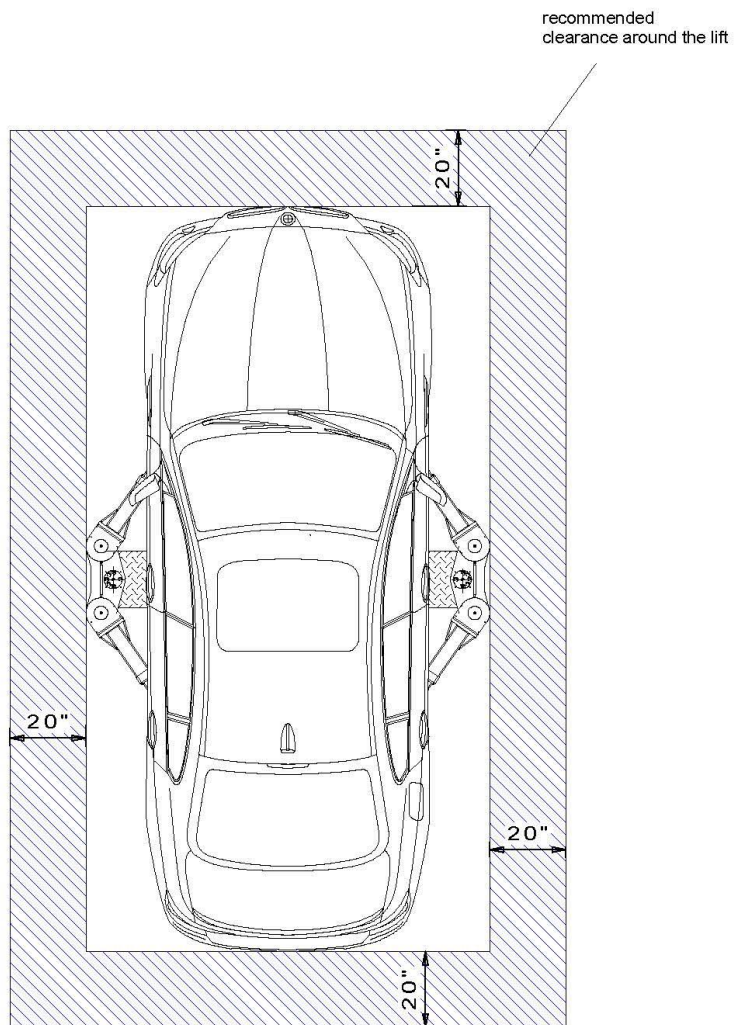
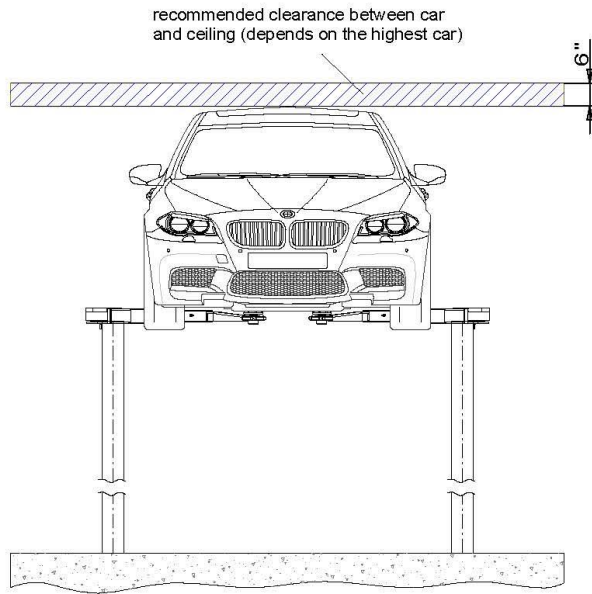


Concrete the foundation:

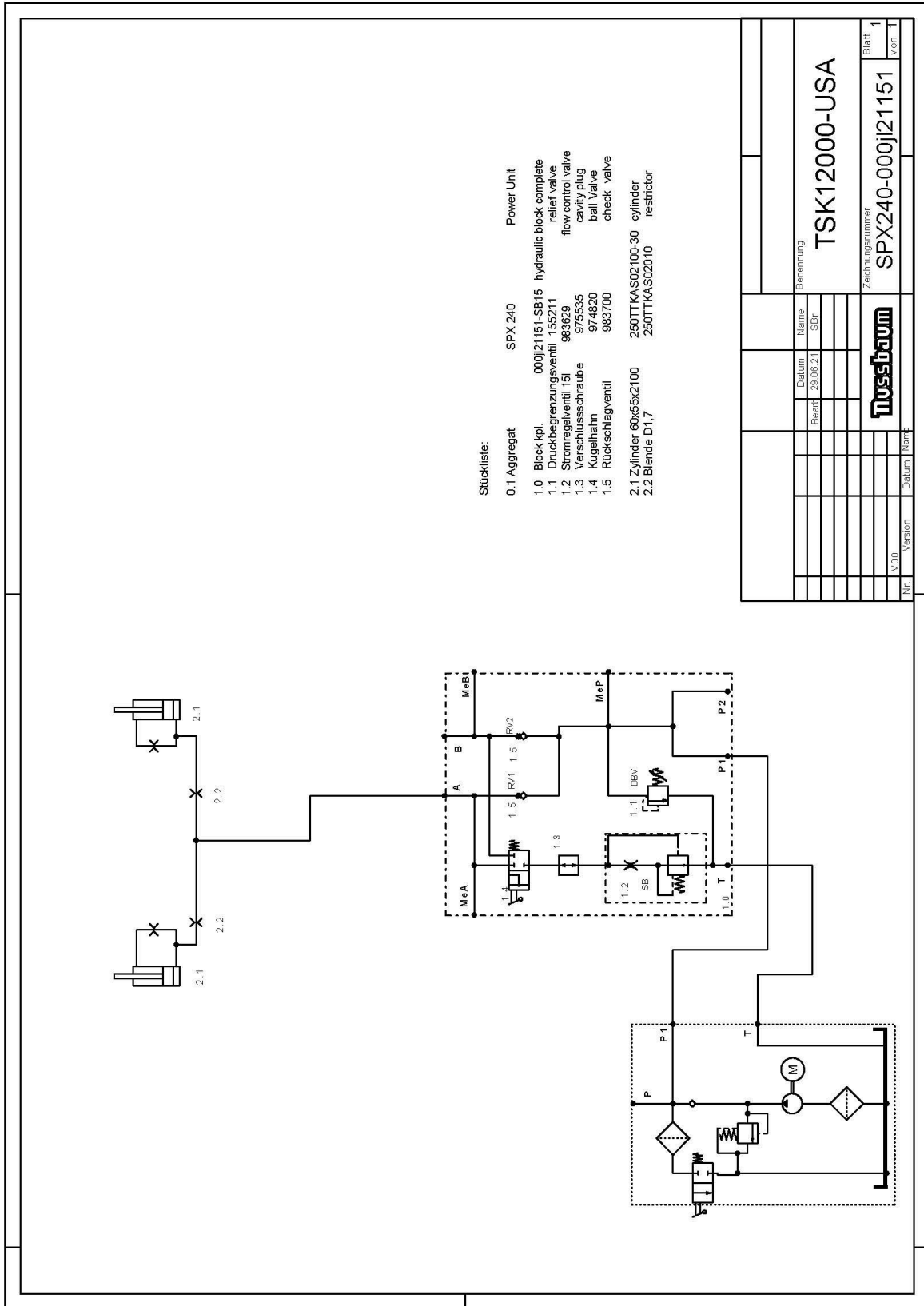


*Aller Maße in mm! / all dimensions in mm!
Mess- und Konstruktionsänderungen vorbehalten! dimensions and design changes reserved!*

(3D CAD-Model)		Projektionsmethode 1 ISO 5456-2		Benennung / designation	
Änder.	Datum	Bearb.	Name	TSK 12000	
-	-	14.01.2020	MH	stamp distance 2800mm	
-	-	-	Gepr.		
-	-	-	-		
-	-	-	-		
-	-	-	-		
-	-	-	-		
-	-	-	-		
-	-	-	-		
Name			Zeichnungsnummer / drawing number		
Datum			8945_NB		
Änder.			 Koiker Str. 24, 77694 Kehl www.nussbaum-group.de		



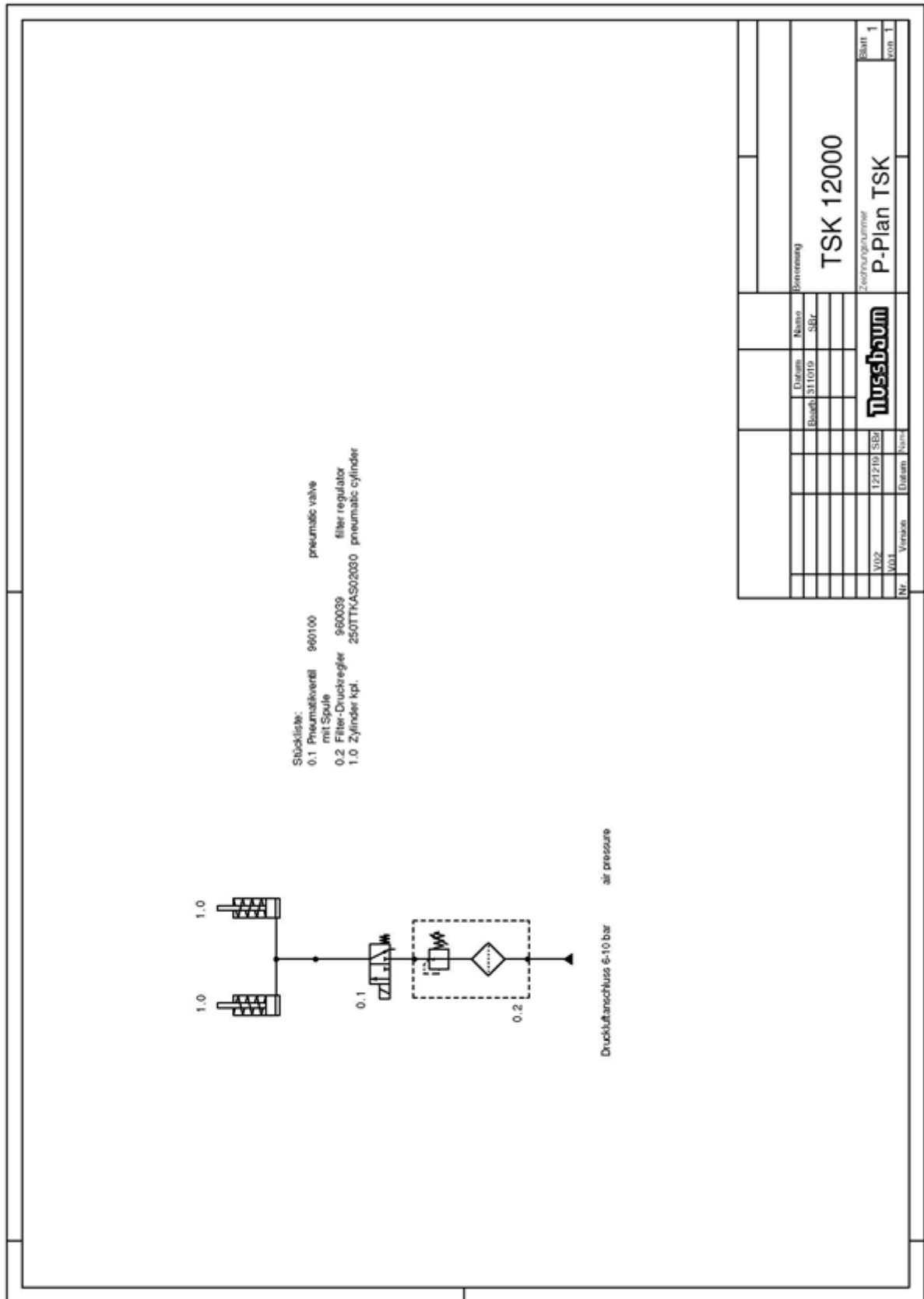
3.3 Hydraulic plan



Hydraulic parts list

0.1	SPX 240	POWER UNIT
1.0	000jl21151-SB15	Block
1.1	155211	PRESSURE RELIEF VALVE
1.2	983629	FLOW CONTROL VALVE
1.3	975535	CAVITY PLUG
1.4	974820	BALL VALVE
1.5	983700	CHECK VALVE
2.1	250TTKAS02100-30	CYLINDER
2.2	250TTKAS02010	RESTRICTOR D 1.7

3.4 Pneumatic plan



3.5 Electrical circuit diagram

Grounding according to local regulations

Before commissioning check whether the nominal motor current matches the motor protection relay.

Check all terminal points for proper connection and that all contact screws are tight. Before commissioning, check all wiring and controls for proper function. Do not permit commissioning from the unauthorised side.

These plans were generated on a CAD system. To keep plans to the current state, we ask that you request Nussbaum to make the changes.

These circuit diagrams are intellectual property. They may not be given to third parties or reproduced without our permission!

Rights to make changes are retained.

Circuit diagram and switch documents

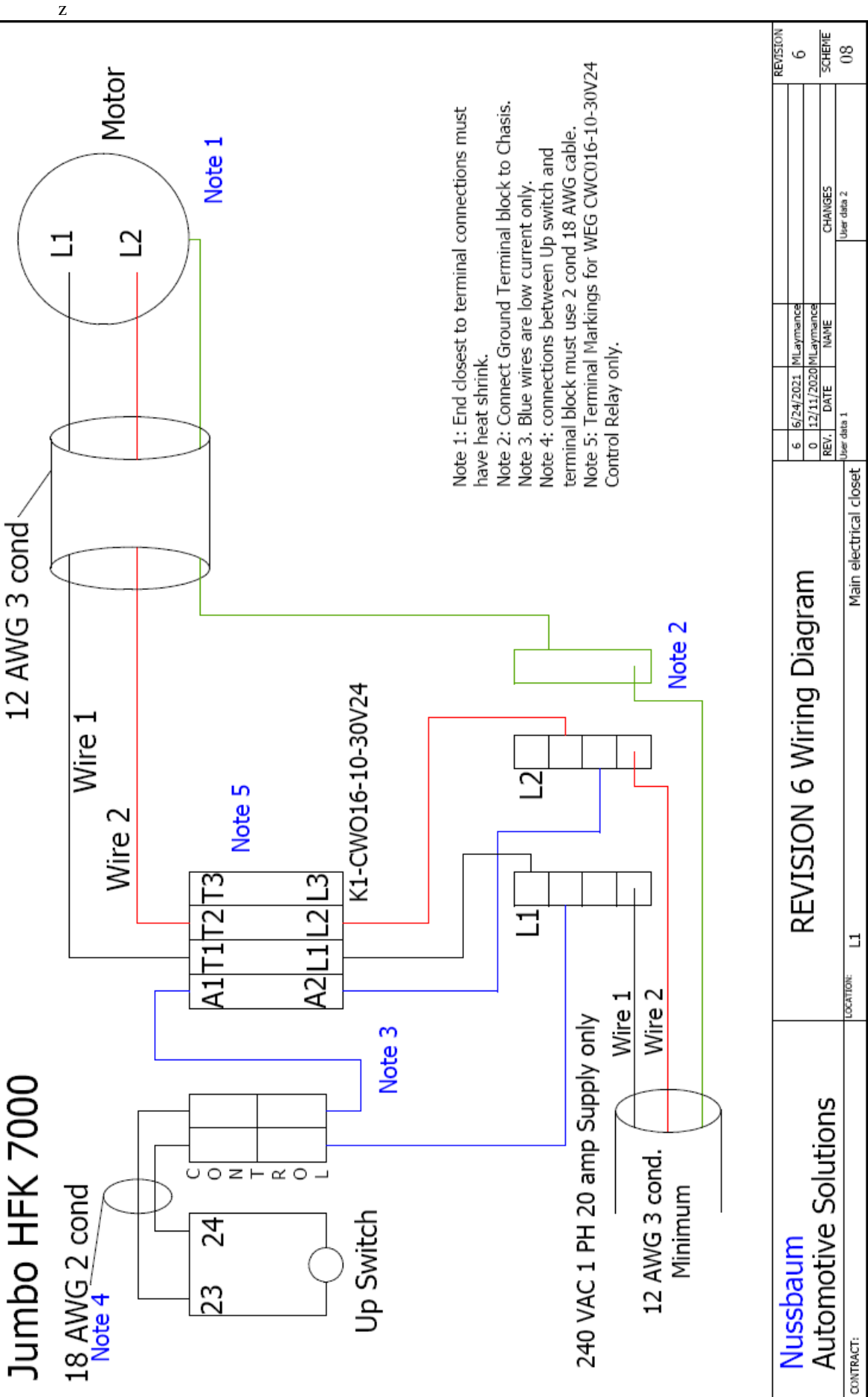
Circuit diagrams were made to the best of our knowledge. No guarantee is made for the accuracy of enclosed circuit diagrams and switch plans contained in this document. This is particularly relevant for switches that were completed by us according to third party plans. This was done by us from purchaser provided manufacturer documentation.

Functional test of switch systems

Circuit diagrams are not standard documents. When checking the control cabinet at the factory, field devices such as sensors, thermostats and motors cannot be included. For this reason, even with careful inspection, functional and switch errors cannot always be prevented.

Deficiencies are removed within the scope of guarantee during commissioning. During commissioning, if our services are not used, then no deficiency liability is accepted. Rework, including informing of circuit diagrams of switch systems not commissioned by us are therefore only done to an invoice according to our service terms and conditions.

Costs for rework by third parties cannot be honored.



Nussbaum Automotive Solutions		REVISION 6 Wiring Diagram		REVISION	6
CONTRACT: L1		Main electrical closet		REV.	0
LOCATION: L1		User data 1		DATE	12/11/2020
		User data 2		NAME	MLaymanca
				CHANGES	08
				SCHEME	08

4. Installation

The installation of the Lift is performed by manufacturer trained technicians or by the manufacturer's distribution partner. The Lift owner may use their trained mechanics to install the Lift. The installation must be performed according to the following regulations:

- Use architectural plans, if available, to determine Lift location.
- Lift is intended for indoor installation only. Installation in an outdoor application is prohibited and will void the warranties of the product.
- Always consult a qualified person regarding local regulations for seismic requirements. The owner has to consult a qualified person to address any local or state requirements (per the ALCTV standard: "a qualified person should be consulted to address any seismic loads and other local or state requirements")
- Do not install Lift in hazardous locations, pit or depression areas, or washing stalls.
- Concrete must have compression strength (see chapter 8).
- Mount on a foundation deeper than the local external frost line.
- Be sure to read the ANSI/ALI ALIS prior to installation.
- The installer has to return the instructional materials furnished with the lift back to the owner

Shipping / parts list

POS	ITEM NAME	ITEM CODES	QUAN-TITY	LOCATION
1	POWER UNIT	235TSKUS01000	1	BOX
2	CONTROL UNIT WITH REAR PLATE, NAMEPLATE AND WEIGHT STICKER	250TTKAS03100	1	BOX
3	CYLINDER SCREWS (LOW HEAD SCREW) FOR GUIDING TUBE M16x30	97984M16x030ZN	8	PLASTIC BAG
4	CARRYING ARM (SET)	250TTKAS28300-6	1	BOX
5	CYLINDER SCREWS M24x150 10.9	9912M24x15010.9	8	PLASTIC BAG
6	SEALING PLUGS D21,7	9GPN300F182	2	PLASTIC BAG
7	CARRIAGE (2600)	250TTKAS06100	1	BOX
8	LEDGE FOR THE LATCH	250TTKAS10103	2	BOX
9	BOLT FOR THE LATCH	232TTL10005	2	BOX
10	SPLINT FOR THE LATCH DIN 94, 5x32	994-5-32	2	BOX
11	CYLINDER	250TTKAS02100-30	2	BOX
12	GUIDING TUBE 1	250TTKAS06070	1	BOX
13	GUIDING TUBE 2	250TTKAS06080	1	BOX
14	SEALING PLUGS D33,5	9GPN300F26	8	PLASTIC BAG
15	GALVANIZED TUB WITH COVER FOR LIFT	250TTKAS05400	1	BOX
16	FOAMED RUBBER 40x8 LIGHT GREY	970676 (146886)	8 m	PLASTIC BAG
17	HOSE GUIDE	250TTKAS01100	1	BOX
18	MANUAL	250TTKASDG	1	BOX

5. Operating instructions



When handling the lift, it must absolutely comply with safety regulations. Carefully read the safety regulations in Section 4 before first operation! After raising the arms, we recommend, to always park them into the locking mechanism.

5.1 Lifting the vehicle

- Drive the vehicle in the middle of the lift.



The total weight limit may not be exceeded, otherwise there may be damage to the lift.

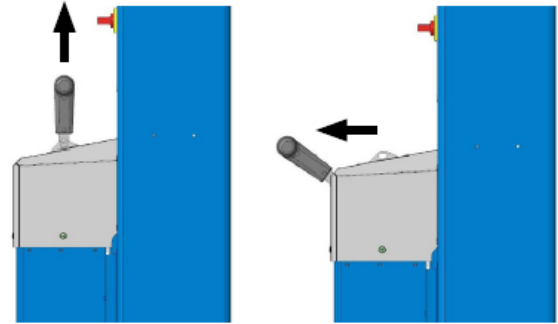
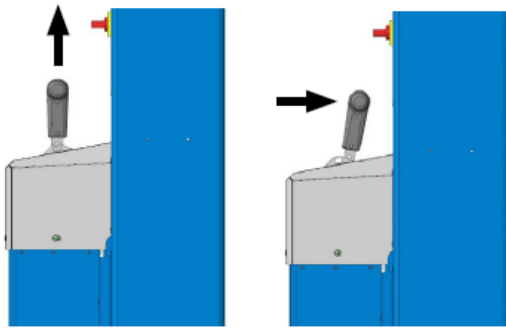
- Secure the vehicle against rolling away. Apply the handbrake, put into gear.
- Position the lifting arms on the fixture points of the vehicle.
- Inspect the hazardous area. No person or object may stand in the working area of the lift, or on the lift.
- Lift the vehicle until the wheels are off the ground. Push the operating lever forwards → "Lift" (see figure 1)
- If the wheels are not blocked, interrupt the lifting process and check for proper seating of the carrier pad. Similarly check whether the lifting arm blocks are ratcheted in. Otherwise, lower the lift and reposition the vehicle.
- After each set down of the vehicle, check the lifting arm positions below the fixture points again and adjust as required.
- Check that there are no people or objects in the hazardous area of the lift.
- Afterwards, lift the vehicle to the desired working height.
- Check that the swivel arm safety is latched in on all lifting arms.
 - The entire lifting process must continuously be observed by the operator.



- 1- Lifting
- 2- Stop
- 3- Lowering

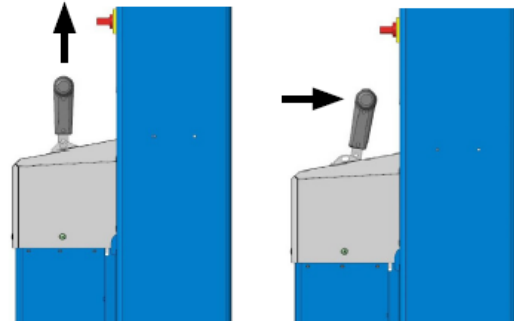
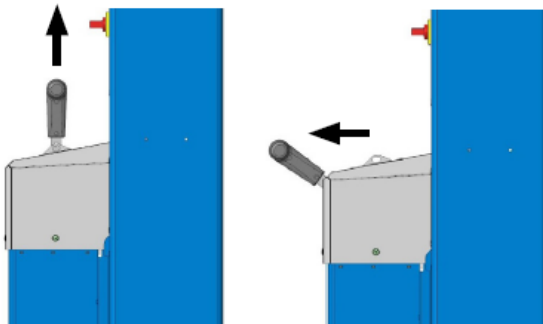


Lift:



- The platform moves down a little and sets down in the next latch
- When a vehicle is serviced the lift must be engaged in the latch
- Before starting the lowering process, the lift must be moved out of the latch again.
- Lift and press the operating lever #2 briefly to unlock the latch

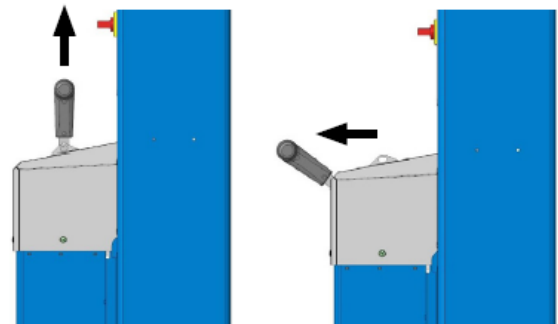
Lower:



5.2 Lowering the vehicle

- Check that there are no people or objects in the hazardous area of the lift.
- Lower the vehicle to the desired working height or to its lowest position; pull the operating lever slowly → "Lower".
- Then lower onto the locks by pushing button #3 and at the same time lift and pull the operating lever #2.

- Lower the lift to the floor



- For heavier vehicles, lift it slightly before lowering to prevent an "sticking" and any corresponding jolt during lowering.
- The lowering speed can be varied seamlessly.
- Once the lift is in the lowest position, push the lifting arms to the start position.

6. Behaviour in cases of error

Defective operational readiness of the lift may be due to a simple error. Check the system for the listed sources of error.

If the error cannot be removed after an inspection to the named causes, then inform customer service or your dealer.

Problem: Motor does not start!

- possible causes:
- *No power supply present*
 - *Defective fuse*
 - *Power supply interrupted*
 - *The thermal circuit breaker of the motor is active (let it cool)*
 - *Power outage*
 - *Operating button defective*

Problem: Motor starts, load is not lifted!

- possible causes:
- *The vehicle is too heavy*
 - *Hydraulic oil filling level is too low*
 - *The pressure lines are blocked or defective*
 - *Leak in the hydraulic system*

Problem: The lift cannot be lowered!

- possible causes:
- *Lifting table is sitting on an obstacle*
 - *Hydraulic valve defective*
 - *The latch is engaged*

6.1 Moving onto an obstacle

If the lift moves onto an obstacle during lowering, then it remains in position due to the mechanical resistance. In this case the lift must be moved upwards by pushing the "Lifting handle" forward on the operating unit until the obstacle can be removed. Afterwards the lift is in a normal work condition and can continue to be operated as described in the operating manual.

6.2 Emergency discharge with stand unit and safety latch



An emergency discharge is an access into the lift controls and may only be done by experienced specialists.

The emergency discharge must be done in the following described sequence, otherwise it can lead to damage and hazard to life and limb.

Any kind of external leakage is not permitted and must immediately taken care of. This is absolutely necessary especially before an emergency discharge.



Fig. 2: Pneumatic air supply for actuating the ratchet cylinders.

6.2.2 Defect of the Pneumatic valve

If there is a defect on a pneumatic valve the safety latches cannot be opened. However there is still the option of opening the valve using a hand pump or compressor.

1. Open the top cover of the external unit.
2. Remove the black pneumatic hose coming from the lift at the pneumatic valve. (see Fig. 2).
3. This air hose must be connected to a hand pump or compressor. The required operating pressure to unlock is 6 to a max. 10 bars.
4. Push the handle backward and lower the lift until the lowest position is reached.
5. If the lift cannot be lowered, push the handle forward to lift briefly until the latch is released. Push the "Lower" button again until the lift has reached the lowest position.

Lowering

1. The entire lowering process must be continuously observed.
2. Once the lift is at the lowest position, the vehicle can be driven off the lift.
3. The lift must be stopped until defective parts have been exchanged and the lift is in a technical perfect condition again.
4. If required, do maintenance.

7. Maintenance and care of the lift








! *Before maintenance, do all preparation work so there is no danger to life or limb or object damage during maintenance and repair work.*

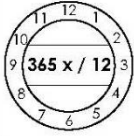

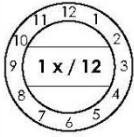

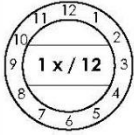

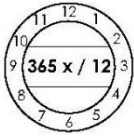

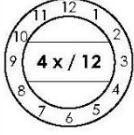

Value is placed on long lifetimes and safety in the development and production of Nussbaum products. To guarantee the safety of the operator, product reliability, low running costs, keep the warranty and also the long-lifetime of the product, proper set up and operation is just as important as regular maintenance and sufficient care.



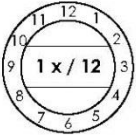

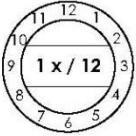

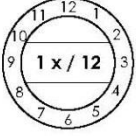

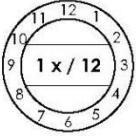

Our lifts fulfil the safety standard of the country where it is sold. To guarantee the largest possible availability and functional capacity of the lift system, ensure the list of any cleaning, care and maintenance work is done.

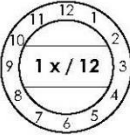

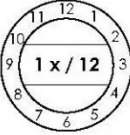

The lift system is to be serviced at regular intervals according to the following plan. For intensive operation and higher degree of contamination shorten the service interval. The complete function of the lift system is to be observed during daily use. Customer service must be informed of any malfunctions or leaks.

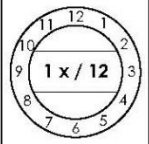

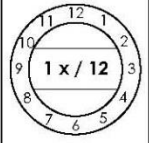

7.1 Lift maintenance plan

						
Visual inspection	Spray	Oil	Lubricate	Clean with compressed air	Clean	Inspect

Time frame	Position Type of maintenance	Person in charge	Maintenance plan
Daily 		Lift owner / employer	Model and information signs, labels, brief operating instructions, safety stickers and warning information are to be cleaned and exchanged if damaged.
Annually 		Trained service personnel	Check the lifting arm block and gear for wear. Exchange if there is visible damage.
Annually 		Trained service personnel	Lifting arm booms, lifting arm bolts, carrier plate threaded bolts are to be checked for ease of running. If required, lightly grease with multi-purpose grease. Do not over-lubricate.
Daily 		Lift owner / employer	The rubber acceptance plate is to be checked for wear and replaced if necessary.
Every 3 months 		Lift owner / employer	Check the tracks and the lift rail equalization parts for wear. After cleaning, grease with multi-purpose grease. We exclusively recommend that MO-2 high performance lubricating grease is used. (available for purchase directly from Oest).

Time frame		Position Type of maintenance	Person in charge	Maintenance plan																																																															
As required		 	Lift owner / employer	The lift cylinder can sweat and small oil droplets can form on the base plate, this is however, not a leak.																																																															
Annually			Trained service personnel	<p>Check all fastening screws and anchors with a torque wrench.</p> <p><i>Fastening class 8.8</i></p> <table border="1"> <tr> <td></td> <td>0.08*</td> <td>0.12**</td> <td>0.14***</td> </tr> <tr> <td>M8</td> <td>17.9</td> <td>23.1</td> <td>25.3</td> </tr> <tr> <td>M10</td> <td>36</td> <td>46</td> <td>51</td> </tr> <tr> <td>M12</td> <td>61</td> <td>80</td> <td>87</td> </tr> <tr> <td>M16</td> <td>147</td> <td>194</td> <td>214</td> </tr> <tr> <td>M20</td> <td>297</td> <td>391</td> <td>430</td> </tr> <tr> <td>M24</td> <td>512</td> <td>675</td> <td>743</td> </tr> </table> <p><i>Fastening class 10.9</i></p> <table border="1"> <tr> <td></td> <td>0.08*</td> <td>0.12**</td> <td>0.14***</td> <td>37.2</td> </tr> <tr> <td>M8</td> <td>26.2</td> <td>34</td> <td></td> <td></td> </tr> <tr> <td>M10</td> <td>53</td> <td>68</td> <td>75</td> <td></td> </tr> <tr> <td>M12</td> <td>90</td> <td>117</td> <td>128</td> <td></td> </tr> <tr> <td>M16</td> <td>216</td> <td>285</td> <td>314</td> <td></td> </tr> <tr> <td>M20</td> <td>423</td> <td>557</td> <td>615</td> <td></td> </tr> <tr> <td>M24</td> <td>730</td> <td>960</td> <td>1060</td> <td></td> </tr> </table> <p>* Lubricated slide friction number 0.8 MoS2 ** Lightly oiled slide friction number 0.12 *** Ensured slide friction number 0.14 screw with micro-encapsulated plastic</p>		0.08*	0.12**	0.14***	M8	17.9	23.1	25.3	M10	36	46	51	M12	61	80	87	M16	147	194	214	M20	297	391	430	M24	512	675	743		0.08*	0.12**	0.14***	37.2	M8	26.2	34			M10	53	68	75		M12	90	117	128		M16	216	285	314		M20	423	557	615		M24	730	960	1060	
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Annually			Trained service personnel	All weld seams must have a visual inspection. Stop the system and contact the manufacturer if there are cracks or breaks in weld seams of the lift.																																																															
Annually			Trained service personnel	<p>Check electrical components for function and condition.</p> <ul style="list-style-type: none"> • Plug. • Operating lever with button switch. • During assembly and maintenance always check the condition of electrical lines. All cables and lines must be secured so they cannot be crushed, kinked or contact any moving assembly. 																																																															
Annually			Trained service personnel	<p>Optional energy set:</p> <ul style="list-style-type: none"> • Electrical socket • Pneumatic connection <p>Check for condition and function.</p>																																																															

	Time frame	Position Type of maintenance	Person in charge	Maintenance plan
	<p>Annually</p> 		<p>Trained service personnel</p>	<p>Check the paint:</p> <ul style="list-style-type: none"> • Check the powder coating and improve if required. Damage by external influences is to be treated immediately after detection. If these points are not treated, infiltration of deposits of all kinds can cause wide-ranging and permanent damage. These points are to be lightly sanded (120 grit), cleaned and degreased. Afterwards, rework with a suitable touch up paint (note the RAL No.). • Check galvanised surfaces, touch up as needed. White rust is fostered by permanent humidity, poor ventilation. The affected areas can be treated by using a sanding cloth (A 280 grit). If required, the parts are to be treated with a suitable, resistant material (paint etc.). Check the RAL colour selection. • Rust is brought out by mechanical damage, wear, aggressive deposits (de-icing salt, leaking operating fluids) cleaning that is not done or incomplete. The affected areas can be treated by using a sanding cloth (A 280 grit). If required, post-treat the areas with a resistant material (paint etc.).
	<p>Annually</p> 		<p>Trained service personnel</p>	<p>According to manufacturer instructions, the hydraulic oil should be changed every two years in normal operations. Various environmental influences e.g. location, temperature swings, intensive operation etc., can have an influence on the quality of the hydraulic oil. For this reason, the oil must be checked during annual safety inspections and maintenance.</p> <p>The oil is used if it has a milky colour or if the hydraulic oil smells unpleasantly.</p> <p>To change oil, lower the lift is to its lowest position then suction the oil out of the oil container and replace the contents.</p> <p>The manufacturer recommends high-quality clean hydraulic oil. The required oil volume and type is to be taken from the technical data. After filling, the hydraulic oil must be between the upper and lower marking on the oil dipstick, or approx. 2.5 cm below the oil filling opening.</p> <p>Dispose of the old oil according to regulations to the intended location (district offices, environmental protection office or commercial regulatory office has the obligation to disclose about disposal points).</p>

Time frame	Position Type of maintenance	Person in charge	Maintenance plan
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Annually</p> 		<p>Trained service personnel</p>	<p>Hydraulic hose lines</p> <p>Storage and duration of use Excerpt from DIN20066:2002-10</p> <ul style="list-style-type: none"> • For permitted loading, hoses undergo a natural change. This limits the duration of use. • Improper storage, mechanical damage and unpermitted loads are the most frequent cause of breakdowns. • The duration of use of a hose line including any storage time should not exceed six years. <p>Hose lines are to be replaced if/when,</p> <ul style="list-style-type: none"> • Damage to the outer coating up to the insert (chafe marks, cuts, cracks). • The outer coating becomes brittle (crack formation). • Deformation from the natural shape in the depressurised and pressurised conditions. • Leakage. • Damage or deformation of the mounting fixture. • Meandering of the mounting fixture. • The lifetime has been exceeded. <p>Repair of the hose line using the implemented hose / mounting fixture is not permitted.</p> <p>Extending the replacement intervals given in the guideline is possible if the inspection for safe-work condition is done in adjusted, shortened time frames, if required and by competent personnel. If there is an extension of the replacement interval, no situation may occur which could result in injury of employees or other personnel.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Annually</p> 		<p>Trained service personnel</p>	<p>Excerpt from BGR237: Specifications for the hydraulic hose lines.</p> <p>Normal specification: Recommended exchange intervals: 6 years (operation duration including max. 2 years storage time).</p> <p>Increased demands e.g. by</p> <ul style="list-style-type: none"> • Increased usage times e.g. multi-shift, short cycle times and pressure impulses. • Increased exterior and interior (due to media) influences which significantly reduce the lifetime of the hose lines. <p>Recommended exchange intervals: 6 years (operation duration including max. 2 years storage time).</p>

7.2 Cleaning the lift

A regular and expert clean helps retain the value of the lift.

Additionally, it can also be a pre-requisite for the preservation of guarantee claims for any eventual corrosion damage.

The best protection for the lift is regular removal of contaminants of any kind.

- This includes above all:

- de-icing salt
- sand, pebbles, earth
- industrial dust of all types
- Water, also in connection with other environmental influences
- Aggressive deposits of all types
- Permanent humidity due to insufficient ventilation

The frequency of lift cleaning depends, among other things on the frequency of use, of lift handling, of workshop cleanliness, and the location of the lift. Furthermore, the degree of contamination depends on the time of year, the weather conditions and workshop ventilation. Under adverse circumstances, weekly lift cleaning might be required, however a monthly cleaning may be sufficient.

Do not use and aggressive and abrasive materials for cleaning, rather use mild cleaners, e.g. a commercially available detergent and luke warm water.

- For cleaning, do not use high pressure washers (e.g. steam cleaners).
- Carefully remove all contamination with a sponge, or if required with a brush.
- Make sure that there is no residue of the cleaner on the lift.
- After cleaning, dry the lift with a cloth and spray it with a spray wax or oil.

8. Assembly and commissioning

8.1 Set up guidelines

- Lift assembly is done by trained manufacturer personnel or a contract partner. If the operating company has appropriately trained assemblers, the lift can also be assembled by them. Set up is to be done acc. to the assembly instructions.
- A standard lift may not be assembled in explosion endangered spaces or wash halls.
- Before setting up, verify that there is a sufficient foundation or make it according to the guidelines in the foundation plan (see foundation plan). The installation location must be level. Foundations in open air and spaces where winter storms or frost are to be expected, must have a foundation to frost depth.
- An on-site electrical connection of 1 ~/N + PE, 230V, 60Hz is to be provided. The supply line is to be correspondingly secured on-site. The connection point is located on the electrical boxes.
- To protect the electrical cable all cable conduits are to be fitted with cable sleeves or flexible plastic pipes.

- After successful lift installation and before first commissioning, the operating company must have the lift grounding conductors inspected onsite according to IEC regulation (60364-6-61). An insulation resistance test is also recommended.

8.2 Assembly of the lift



When assembling the lift (in particular the fixture on the lifting post pipes) ensure that the proper fastening screws are used; also comply with the minimum screw-in depth. Otherwise this can lead to damage and endanger life and limb. Ensure that the listed screws are tightened to the required torque. For this, see the torque table in the maintenance plan. The fastening screws are to be checked before first commissioning and as needed for the annual safety inspection and maintenance.

- Insert the lift according to the details of the corresponding foundation plan, if required, use an assembly aid to position the pan.
- The pan must be reinforced using suitable means (e.g. wood) before being placed in concrete. The reinforcements must be removed before commissioning the lift. Otherwise there may be damage to the lift.
- The pan has been hot-dip galvanised for reasons of corrosion protection. For manufacturing reasons a hole has been drilled in the lower reason of the pan to allow excess zinc to flow out. This threaded hole has been sealed again with a screw and may not be removed from the pan during assembly. Otherwise water can flow into the pan and adversely affect the corrosion protection.
- Align the lift precisely in the lengthwise and width wise directions.
- To prevent concrete from entering the pan, the pan covers must be in place before pouring concrete.
- Cementing the pan.
- Afterwards, remove the cover between both post pipes.
- Position the power unit (power unit see figure 1)
- Guide and connect the hydraulic, power and pneumatic lines though the empty pipe and connect the power unit.
- Fill with hydraulic oil, the manufacturer recommends a high value hydraulic oil with a viscosity of 32 cst. The required oil volume is approx. 12 litres.
- Check the oil level.
- Connect the power supply.
- Raise the lift to approx. 500 mm.
- Mount the fixture.
- Lower and raise the lift several times while empty.
- Check the oil level again, refill oil if necessary.
- Lower and raise the lift several times with a vehicle.

- Remove the pan covers and check the leak-tightness of the hydraulic system.
- Check the function of the safety latch.
- Fasten the covers.

**Fastening screws required for Nussbaum post lifts
 (Connecting from the lifting post pipe to the fixture)**

Type	Fastening screws	Standard	Tensile strength	Number of pieces per lifting post	Number of pieces per lift
TSK 12000	M24x150*	DIN 912	12.9	4	8

* Screws and spring washer galvanised

8.3 Commissioning

! *Before commissioning, a single safety inspection must be done (use the "single safety inspection" form)*

If the lift set up is done by a specialist (factory trained assembler) then he can also do the safety inspection. If the set up is done by the operating company then a specialist must be tasked with the safety inspection. The specialist confirms seamless operation of the lift on the set up protocol for single safety inspection and releases the lift for use.

! *After commissioning, the set up protocol must be completed and sent to the manufacturer.*

9. Safety inspection

The safety inspection is required to guarantee operational safety of the lift. It is to be done:

1. before first commissioning after setting up the lift
use the "single safety inspection" form
2. After first commissioning, check regularly at least once per year.
Use the "regular safety inspection" form
3. After changes to the lift system construction
Use the "extraordinary safety inspection" form

! *Single and regular safety inspections must be done by a specialist. It is recommended to do maintenance at the same time.*

! *After a change in design (for example changing the load carrying capacity or changing the lifting height) and after significant maintenance on load carrying parts (e.g. welding work), inspection by a technical expert is required (extraordinary safety inspection).*

This inspection book contains forms with a printed inspection plan for safety inspections. Please use the appropriate form, record the condition of the inspected lift and leave the completed form in this inspection book.

9.1 Single safety inspection before commissioning

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

.....
Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

9.2 Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

.....
Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

.....
Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

.....
Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

.....
Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

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Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

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Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

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Signature of specialist

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Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

.....
Operating company signature

(use a new form for reinspection!)

Regular safety inspection and maintenance

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

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Signature of specialist

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Operating company signature

If requested to take care of deficiencies

Deficiency removed on:

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Operating company signature

(use a new form for reinspection!)

9.3 Exceptional safety inspection

Complete and leave in the inspection book

Test step	OK	Defect missing	Retest	Remarks
Quick operating manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning label.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lift, lower".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function, main switch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the complete fixture.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function ease of travel of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interlock function of the lifting arms.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General lift condition.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load bearing construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(deformations, cracks)				
Condition of the lifting post pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastening screw torque	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of pan.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of paint / zinc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pan leak-tightness.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filling level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic line conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of operating panel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical lines.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional test lift with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/ function pneum. safety catch.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of rubber plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(place a checkmark in the relevant, if a retest is required then check it again!)

Safety inspection done on:.....

Performed by Company:.....

Name, address of specialist:.....

Result of inspection:

- Continued operation questionable, reinspection required
- Continued operation possible, remove defects
- No deficiencies, continue to operate

.....
Signature of specialist

.....
Operating company signature

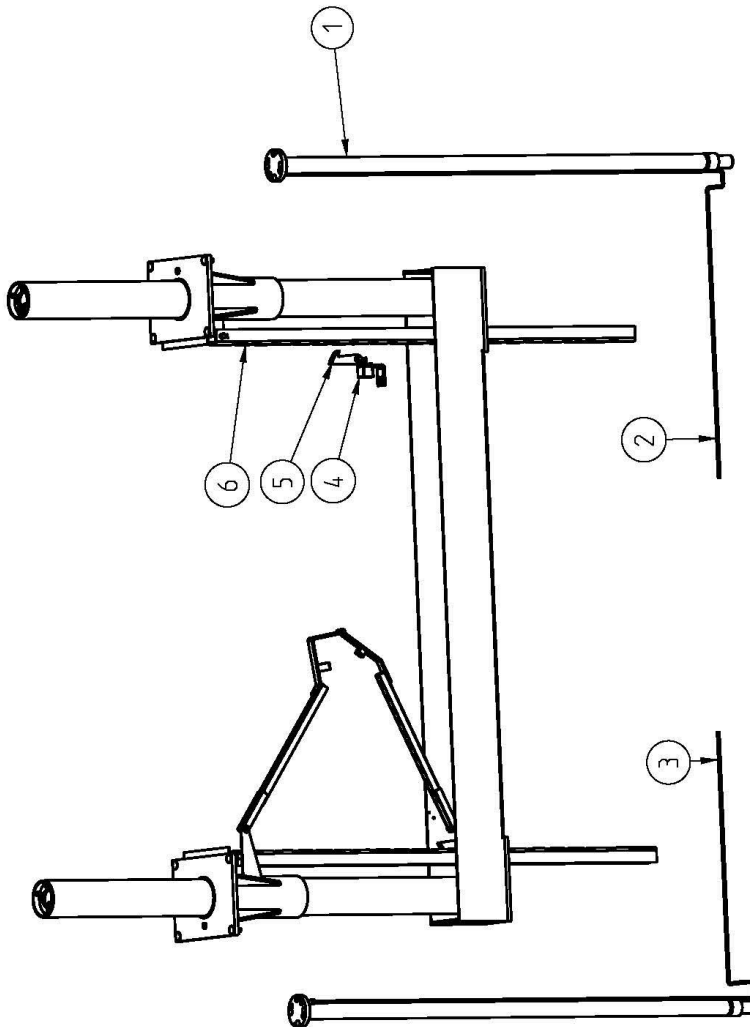
If requested to take care of deficiencies

Deficiency removed on:

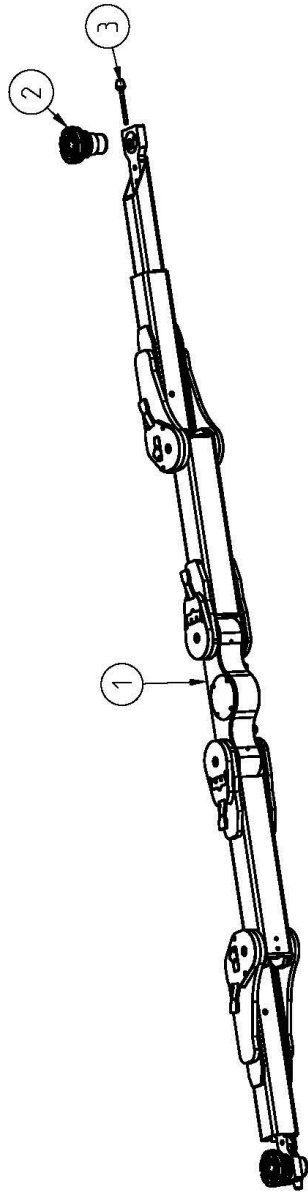
.....
Operating company signature

(use a new form for reinspection!)

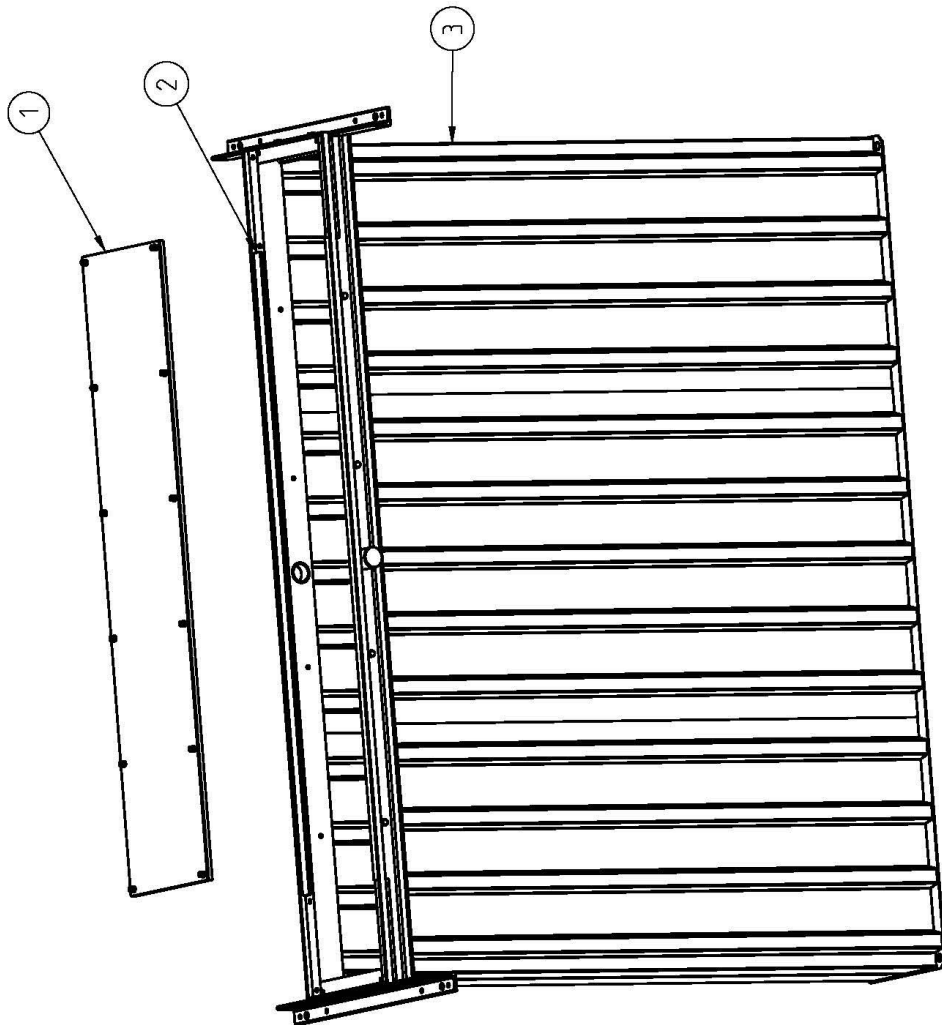
10. Spare part list



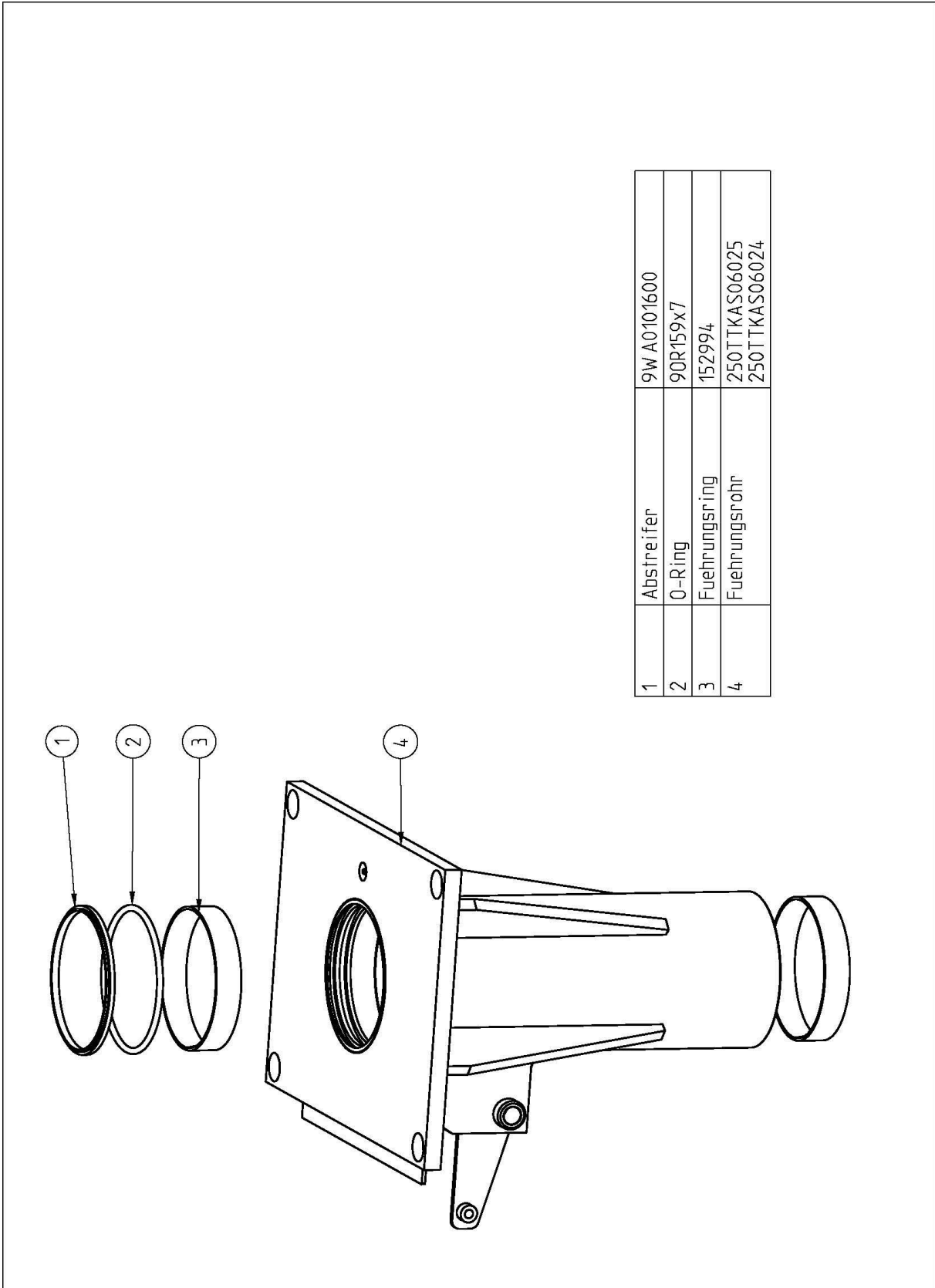
1	Hydraulikzylinder	250TTKAS02100-30
2	Hydraulikrohr 1	250TTKAS01010
3	Hydraulikrohr 2	250TTKAS01020
4	Zylinder-Sicherheitslinke	250TTKAS02030
5	Sicherheitslinke	250TTKAS01009
6	Sicherheitslinkenleiste	250TTKAS01003



1	Aufnahme komplett	250TTKAS28300
2	Teleskop-Aufnahme komplett	235TTKAS08055
3	Arretierstift komplett	250HDL48119



1	Deckel kompl	250TTKAS09400
2	Dichtung	146886
3	Wanne	250TTKAS05403



1	Abstreifer	9W A0101600
2	O-Ring	90R159x7
3	Fuehrungsring	152994
4	Fuehrungsrohr	250TTKAS06025 250TTKAS06024