

UNI-LIFT 3500 NT ND

UNI-LIFT 3200 NT Plus ND

Automotive-lift date: 12/2009

Manual date: 10.12.2009



Operating instruction and Documentation

Serial-number:

retailer/ phone



Nussbaum

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Inhalt

| | |
|---|-----------|
| Foreword | 3 |
| Record of installation | 5 |
| Record of handing over..... | 6 |
| 1. General Information | 7 |
| 1.1 Installation and service checks of the automotive lift..... | 7 |
| 1.2 Warning Symbols..... | 7 |
| 2. Master document of the automotive lift | 8 |
| 2.1 Lift–manufacturer | 8 |
| 2.2 Application | 8 |
| 2.3 Changes at the construction | 8 |
| 2.4 Displacement of the automotive-lift..... | 8 |
| 3. Technical Information | 10 |
| 3.1 Technical data..... | 10 |
| 3.2 Safety devices..... | 10 |
| 3.3 Data sheet..... | 11 |
| 3.4 Hydraulic plan without wheel free lift | 12 |
| 3.5 Hydraulic plan with wheel free lift | 13 |
| 3.6 Electrical diagram UNI 3500 NT ND | 15 |
| 3.7 Electrical diagram UNI 3200 NT Plus ND | 22 |
| 4. Safety regulations | 30 |
| 5. Operating instructions | 30 |
| 5.1 Lifting the vehicle | 30 |
| 5.2 Lowering the vehicle | 31 |
| 5.3 Equalization of the platforms | 31 |
| 6. Troubleshooting | 33 |
| 6.1 Driving on an obstacle | 33 |
| 6.2 Emergency lowering of the main lift/ wheel free lift | 33 |
| 7. Inspection and Maintenance | 35 |
| 7.1 Maintenance plan of the lift..... | 35 |
| 7.2 How often must the lift be cleaned?..... | 37 |
| 8. Security check | 38 |
| 9. Handing over and Initiation | 39 |
| 9.1 Installation Regulations..... | 39 |
| 9.2 Installation of the lift | 39 |
| 9.3 Deaerate the hydraulic system (main lift) | 40 |
| 9.4 Initiation..... | 41 |
| 9.5 Changing the installation place | 41 |
| First security check before installation..... | 45 |
| Regular security check and maintenance..... | 46 |
| Regular security check and maintenance..... | 47 |
| Extraordinary security check..... | 53 |

Foreword

Nußbaum lifting systems are the result of over 25 years experience in the automotive lifting industry.

The high quality and the superior concept ensure reliability, a long lift lifetime and above all an economic business solution.

To avoid unnecessary damage, injury or even death, read the operating instructions with care and observe the contents.

Nußbaum lifts is not responsible for incidents involving the use of Nußbaum lifting systems for applications other than those for which they were designed.

Otto Nußbaum GmbH & Co. KG is not liable for any resulting damages. The user carries the risk alone.

Obligations of the user:

- To observe and adhere to the operating instructions.
- To follow the recommended inspection and maintenance procedures and carry out the prescribed tests.
- The operating instructions must be observed by all persons working with or around the lift.
- Above all chapter 4 "Safety Regulations" is very important and must be closely adhered to.
- In addition to the safety regulations stated in the operating instructions manual, the appropriate safety regulations and the operating procedures of the place of operation must also be considered.

Obligations of the operator:

The operator is obliged to allow only those persons complying to the following requirements to work with or around the unit.

- Persons being familiar with the basic regulations concerning labour safety and accident prevention and being trained to operate the particular unit.
- Persons having read and understood the chapter concerning safety and warning symbols.
- Persons using the lift are required to confirm that they have read and understood the chapter on safety and warning symbols by signing the appropriate form.

Dangers when operating the lift:

Nußbaum-Lifts are designed and built according to technical standards and the approved regulations for technical safety. The use of Nußbaum lifts for purposes other than those for which they were designed, may result in injury or even death.

The lift must only be operated :

- For its appropriate use
- In faultless condition concerning technical security.

Organisational Requirements

- The instructions for use are to be kept at the place of operation being easily accessible at any time.
- In addition to the instructions for use, rules pertaining to other regulations i.e. accident prevention and environmental rules are to be observed and adhered to.
- The owner of the Nußbaum lifting system must ensure that operators and persons working with or around the lift occasionally conduct “refresher” courses to ensure that the appropriate operating procedures and safety precautions are known.
- Personal Protective Equipment (PPE) must be used according to the appropriate regulations.
- All safety- and danger signs on and around the lift are to be observed and followed!
- Spare parts must comply with the technical requirements specified by the manufacturer. This is only warranted with original parts.
- Observe and adhere to the specified time intervals between tests and inspections.

Maintenance works, repairing faults

- Adjustments, maintenance, and inspections, are to be followed according to the time intervals specified. Details regarding the exchange of parts and components as mentioned in the operating instructions are to be adhered to.
These works must only be carried out by expert personal.
- After maintenance- and repair works loose screws, nuts and bolts must always be firmly tightened!

Guarantee and liability

- Our “General conditions of selling and delivering” are in force.
There will be no guarantee or liability for incidents involving injuries or death or damage to equipment if these incidents are the result of one or more of the following reasons.
- Inappropriate use of the lift
- Inappropriate installation, initiation, operation and maintenance of the lift.
- Use of the lift while one or several security devices do not work, do not work correctly or are not installed correctly.
- Failure to follow the regulations of the operating instructions regarding transport, storage, installation, initiation, operation and maintenance of the lift.
- Unauthorized changes to the structure of the lift without first asking the producer.
- Unauthorized changes of adjustments of important components of the lift (e.g. driving elements, power rating, motor speed, etc)
- Wrong or incorrect maintenance practice.
- Catastrophes, acts of God or external reasons.



After completely filling out this sheet including signatures, copy and return the original to the manufacturer. The copy must remain in the manual.

Otto Nußbaum GmbH & Co. KG
Korker Straße 24
D-77694 Kehl-Bodersweier

Record of installation

The automotive lift with the

serial number:..... was installed on:.....

at the firm:..... at:.....

The initial safety check was carried out and the lift was started.
The installation was carried out by the operating authority/competent (please delete as applicable).
The initial safety check was carried out by a competent person before the initial operation.
The operating authority confirms the correct installation of the automotive lift, the competent person confirms the correct initial operation.

Used Dowels(*): _____ (Type/Name)

Minimum anchorage depth (*) kept: _____ mm ok

Starting torque (*) kept: _____ NM ok

.....
date name of the operating authority signature of the operating authority

.....
date name of the competent person signature of the competent person

Your customer service:.....(stamp)

(*) see supplement of the dowel manufacturers

Record of handing over

The automotive lift with the

serial number:..... was installed on:.....

at the firm:..... at:.....

the safety was checked and the lift was started.

The persons below were introduced after the installation of the automotive lift. The introduction was carried out by either the erector from the lift-manufacturer or from a franchised dealer (competent person).

.....
date name signature

.....
date name signature

.....
date name signature

.....
date name signature

.....
date name signature

.....
date name signature

.....
date name of competent signature of the competent

Your customer service:.....(stamp)

1. General Information

The document “**Operating Instructions and Documentation**” contains important information about installation, operation and maintenance of the automotive lift.

- Conformation of **installation of the automotive lift** is recorded on the “Record of Installation” form and must be signed and returned to the manufacturer.
- Conformation of once of, regular and out of the ordinary service checks is recorded in the respective check forms. The forms are used to document the checks. They should not be removed from the manual.

All **Changes to the structure** and any change of **location** of the automotive lift must be registered in the “**Master document**” of the lift

1.1 Installation and service checks of the automotive lift

Only specialised staff are allowed to repair and maintain the lift and only these specialised staff are allowed to conduct safety checks on the lift. For the purposes of this document these specialised staff will be called Experts and Competent persons.

Experts are persons (for example self-employed engineers, experts) which have received instructions and have the appropriate experience to check and to test the automotive lifts. They are aware of the work involved and know the accident prevention regulations.

Competent persons are persons who have acquired adequate knowledge and experience with automotive lifts. They have completed the appropriate training provided by the lift-manufacturer (the servicing technicians of the manufacturer or dealer, are regarded as competent)

1.2 Warning Symbols

The three symbols below are used to indicate danger and other important information. Pay attention to areas on and around the lift that are marked with these symbols.



Danger! This sign indicates danger. Ignoring this warning may result in injury or even death.



Caution! This sign cautions against possible damage to the automotive lift or other material objects in the case of improper use .



Attention! This sign indicates an important function or other important information regarding the operation of the lift.

2. Master document of the automotive lift

2.1 Lift–manufacturer

Otto Nußbaum GmbH & Co. KG
Korker Straße 24
D-77694 Kehl-Bodersweier

2.2 Application

The automotive lift UNI-LIFT 3500 NT ND is a lifting mechanism for lifting motor vehicles with a laden weight of up to 3500 kg.

The automotive lift UNI-LIFT 3200 NT PLUS ND is a lifting mechanism for lifting motor vehicles with a laden weight of up to 3200 kg. The wheel free lift a lifting mechanism for lifting motor vehicles with a laden weight of up to 2500 kg. The max. load distribution is 2:3 either in or against the drive-on direction.

The automotive lift has been designed for servicing vehicles only. It has not been designed to carry people. Carrying people either directly on the lift or in vehicles that are on the lift is therefore not allowed.

The installation of the standard lift in hazardous or dangerous locations such as wash bays is dangerous and is therefore not allowed.

Changes of construction, repairing and changes of place must be registered in this master document.

2.3 Changes at the construction

Changes at the construction, expert checking, resumption of work (date, kind of change, signature of the expert)

.....
.....
.....

name, address of the expert

.....
place, date

.....
signature of the expert

2.4 Displacement of the automotive-lift

Displacement of the automotive-lift, expert checking, resumption of work (date, kind of change, signature of the competent)

.....
.....
.....

name, address of the competent

.....
place, date

.....
signature of the competent

2.5 page for notice

3. Technical Information

3.1 Technical data

| | |
|----------------------------------|--|
| Capacity without wheel free lift | 3500 kg |
| with wheel free lift | 3200 kg |
| Load distribution | 2:1 in or against the drive on direction |
| Lifting time | approx. 30 sec. with max. load |
| Lowering time | approx. 30 sec. with max. load |
| Wheel free lift | 2500 kg |
| Load distribution | 2:3 in or against the drive on direction |
| Lifting time | approx. 8 sec. with max. load |
| Lowering time | approx. 12 sec. with max. load |
| Line Voltage | 3 x 400 Volt , 50Hz |
| Power rating | 3 kW (992856) |
| Motor rotation | 2880 rotation/min |
| Pump capacity | 2,7 cm ³ (1BK74,2S) |
| Hydraulic pressure | approx. 320 bar |
| Pressure control valve | approx. 360 bar |
| Oil Tank: | approx. 10 Litre |
| Sound level: | ≤ 75 dB(A) |
| Connection by customer | 3~/N+PE, 400V, 50 Hz fuse 16 Ampere (time-lag fuse) observe your regulations of your country |

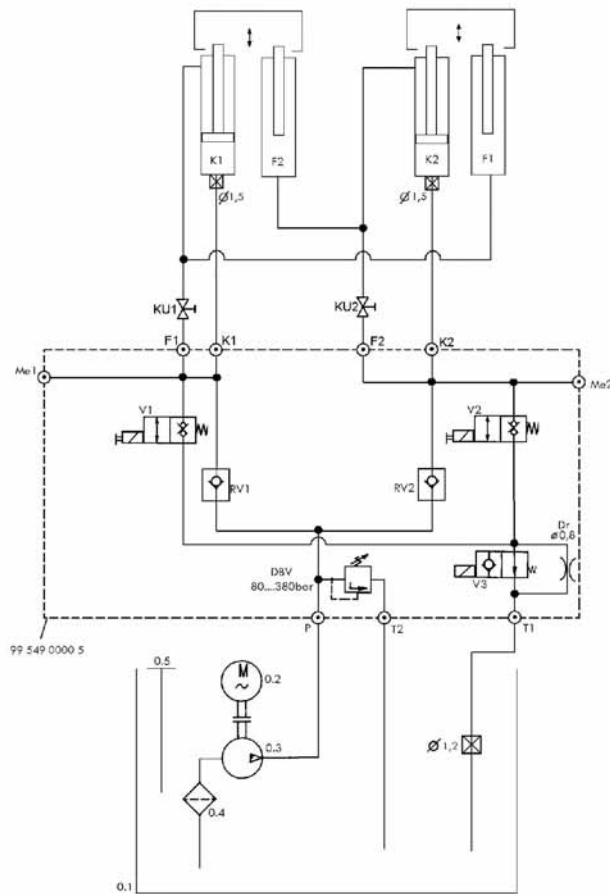
3.2 Safety devices

1. Pressure relief valve
Overprint-safety of the hydraulic system
2. Holding valve
safety device against unintentional lowering
3. Lockable main switch
safety device against unauthorised operation
4. Two independent cylinders (each side master- and slave-cylinder)
safety device against unintentional lowering
5. CE-STOP + acoustic signal (min. 120 mm over the danger point)
safety device against squeeze
6. >Totmann< control
When you release the button, the actual motion of the lift stops

3.3 Data sheet

| | | | | |
|--|---|--|---|---|
| <p>Wir weisen in unseren Plänen auf die Mindestanforderung des Fundamentes hin. Jedoch der Zustand der örtlichen Gegebenheiten (z. B. Untergrund etc.) obliegt nicht unserer Verantwortung. Die Einbausituation muss vom planenden Architekten bzw. Statiker im speziellen Fall individuell spezifiziert werden.</p> | <p>We point out the minimum requirement of the foundation in our plans. The condition of the local realities (for example: ground under the foundation) does not lie our responsibility. If necessary an architect must be consulted.</p> | <p>Bauseitig am Bedienelement bereitstellen: Netzanschluss: 3PH, N+PE, 400V, 50Hz Absicherung: 16 Ampere träge Leerröhre mit Zugdrähten ausstatten</p> | <p>prepared by customer at the operating unit: power supply: 3PH, N+PE, 400V, 50Hz fuse: 16 Ampere time lag Equip the empty pipe with wire pull</p> | <p>Maß- und Konstruktionsänderungen vorbehalten! Alle Maße in Millimeter All dimensions in Millimeter</p> |
| | | | | |
| <p>Bei Bestellung ist der Einbau-, Fundamentplan beizulegen oder die Zeichnungsnummer immer anzugeben.</p> | | <p>UNI-LIFT 3200 NT Plus ND mit Achsmeset/ with wheel alignment set</p> <p>08.12.09/M.G. 6924-EINBAU</p> | | |
| <p>nur für interne Zwecke Zeichnungsnummer 025UNI100034</p> | | | | |

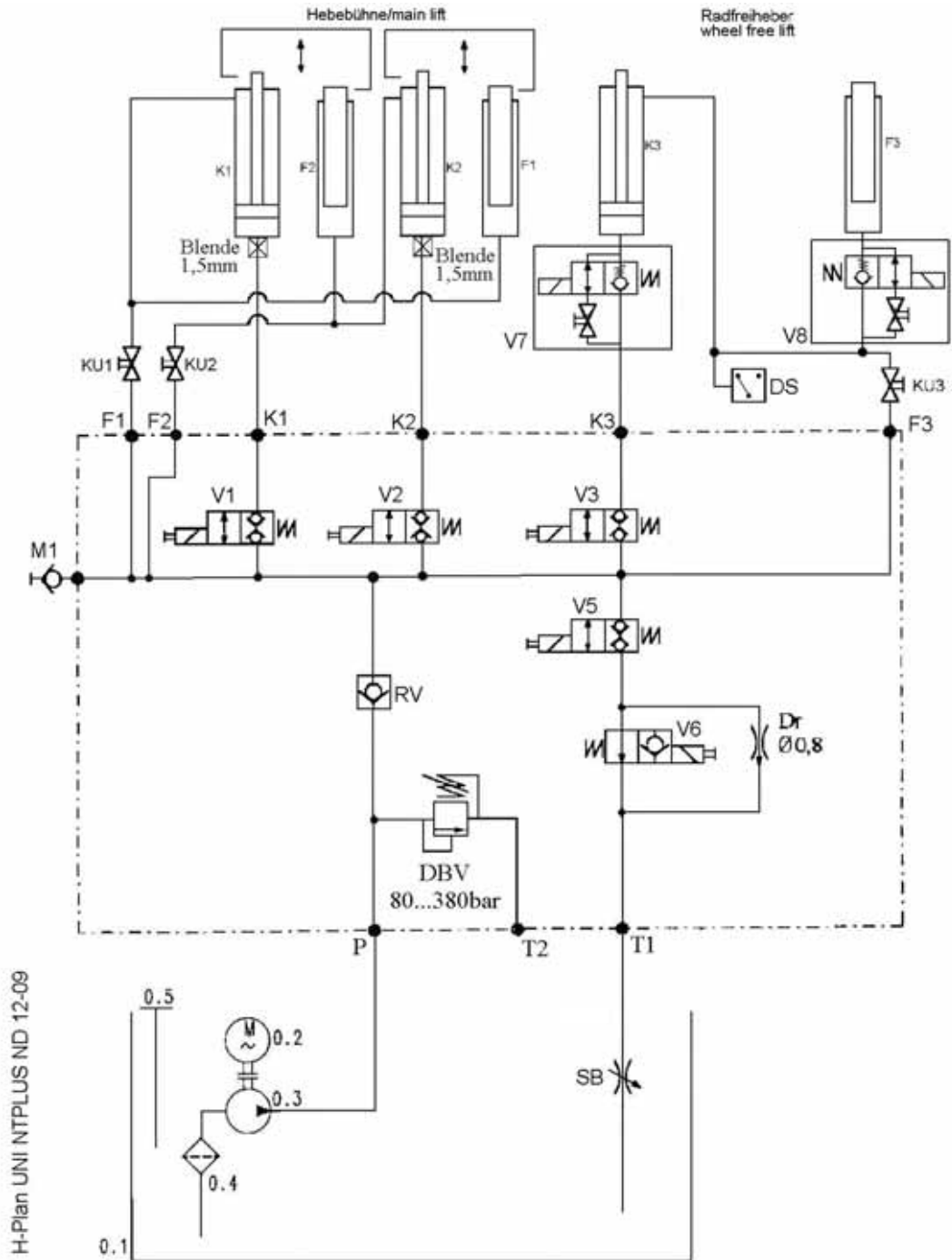
3.4 Hydraulic plan without wheel free lift



Stand 04-01
H-Plan UNI NT 04-01.jpg

| No. | Description | order number |
|-----|---|---------------|
| 0.1 | Oil tank | |
| 0.2 | Sub oil motor 3kW | 992856 |
| 0.3 | Gear pump 2,7 cm ³ | (1BK74,2S) |
| 0.4 | Oil filter | 980012 |
| 0.5 | Oil level gauge | 980098 |
| RV1 | Holding valve | 980480 |
| RV2 | Holding valve | 980480 |
| DBV | pressure relief valve | 155211 |
| V1 | Double seat valve (Unlocking by manual operation) | 980853 |
| V2 | Double seat valve (Unlocking by manual operation) | 980853 |
| V3 | Seat valve (Unlocking by manual operation) | 159318 |
| Me1 | Measuring connection | 155470 |
| Me2 | Measuring connection | 155470 |
| KU1 | Ball valve | 980513 |
| KU2 | Ball valve | 980513 |
| K1 | Master cylinder 1 | 025UNINT02000 |
| F1 | Slave cylinder 1 | 025UNINT02050 |
| K2 | Master cylinder 2 | 025UNINT02000 |
| F2 | Slave cylinder 2 | 025UNINT02050 |
| DR | Flow control valve | |

3.5 Hydraulic plan with wheel free lift

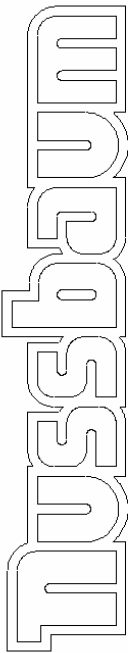


H-Plan UNI NTPLUS ND 12-09

| No. | Description | order number |
|-----|---|---------------|
| 0.1 | Oil tank | |
| 0.2 | Sub oil motor 3kW | 992856 |
| 0.3 | Gear pump 2,7 cm ³ (1BK74,2S) | 980340 |
| 0.4 | Oil filter | 980012 |
| 0.5 | Oil level gauge | 980098 |
| RV | Holding valve | 980480 |
| DBV | Pressure control valve | 155211 |
| V1 | Double seat valve (Unlocking by manual operation) | 980853 |
| V2 | Double seat valve (Unlocking by manual operation) | 980853 |
| V3 | Double seat valve (Unlocking by manual operation) | 980853 |
| V5 | Double seat valve (Unlocking by manual operation) | 980853 |
| V6 | Seat valve (Unlocking by manual operation) | 159318 |
| V7 | 2/2 Seat valve with emergency lowering screw | 981434 |
| V8 | 2/2 Seat valve with emergency lowering screw | 981434 |
| DR | Flow control Ø 0,8 | |
| DS | pressure switch | DSH000/003 |
| SB | Lowering valve | |
| M1 | Measuring connection | 155470 |
| KU1 | Ball valve | 980513 |
| KU2 | Ball valve | 980513 |
| KU3 | Ball valve | 980513 |
| KU4 | Ball valve | 980513 |
| K1 | Master cylinder 1 | 025UNINT02000 |
| F1 | Slave cylinder 1 | 025UNINT02050 |
| K2 | Master cylinder 2 | 025UNINT02000 |
| F2 | Slave cylinder 2 | 025UNINT02050 |
| K3 | Master cylinder (Wheel free lift) | 025RFH02700 |
| F3 | Slave cylinder (Wheel free lift) | 025RFH02750 |

3.6 Electrical diagram UNI 3500 NT ND

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|



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SCHALTPLAN

Erdung nach örtlichen Vorschriften
Vor Inbetriebnahme prüfen, ob Motornennstrom mit Motorschutzrelais übereinstimmt. Alle Klemmstellen auf Ordnungsgemäße Verbindung und alle Kontaktschrauben auf festen Sitz prüfen.
Vor Inbetriebnahme Verdrahtung und Steuerung auf richtige Funktion überprüfen. Keine Inbetriebnahme von unbefugter Seite vornehmen lassen. Änderungen vorbehalten

OBJEKT : Unilift NT ND
ANLAGE :
KUNDE :
SCHALTPLANNR: Unilift NT ND 12/09/001

1.) Schaltpläne und Schaltunterlagen
Die Schaltpläne werden von uns nach besten Gewissen angefertigt. Für bestellte Schaltpläne und Schaltunterlagen wird von uns keine Gewähr für die Richtigkeit der Unterlagen übernommen. Dies trifft insbesondere für Schaltungen zu, die von uns nach fremden Plänen angefertigt werden. Diese werden von uns nur nach dem vom Auftraggeber überlassenen Unterlagen des Auftragsleiters angefertigt.

2.) Funktionsprüfung der Schaltanlagen
Schaltpläne sind keine Serienerzeugnisse. Bei der Prüfung des Schaltstranges am Werk können Fehler wie Fehler, Thermische und Motoren nicht erbelegbar werden. Auch bei sorgfältiger Montage der Schaltpläne ist die Richtigkeit der Schaltpläne nicht garantiert. Sie ist grundsätzlich Bestandteil unseres Auftrages. Mängel werden oder hat durch uns zu erfolgen. Sie ist grundsätzlich Bestandteil unseres Auftrages. Mängel werden im Rahmen unserer Gewährleistung bei der Inbetriebnahme besichtigt. Keine Haftung/Übernahme von Nachbesserungen einschließlich der Berücksichtigung von Schaltplänen bei nicht von uns in Betrieb übernommenen Systemen. Nachbesserungen durch Dritte können auf nicht übernehmbar sein.

Diese Pläne sind auf einem CAD-System erstellt worden
Um die Pläne immer auf dem aktuellen Stand zu halten, bitten wir
Anderungen nur durch uns vornehmen zu lassen.

3.) Sicherheitsprüfung und Schutzmaßnahmen
Der Schaltstrang wurde unter Beachtung der anerkannten Regeln der Technik nach VDE0100/1113 sowie der Unfallverhütungsvorschrift TRGS/elektrische Anlagen und Betriebsmittel gefertigt. Die Richtigkeit der Schaltpläne ist durch folgende Maßnahmen gesichert:
1. Spannungsprüfung und/oder Isolationsprüfung des Schaltstranges nach VDE0100/573.
2. Nach VDE0100/775, Par. 12, über anerkannten Schutzmaßnahmen bei indirektem Berühren.
3. Funktionsprüfung und Stückprüfung nach VDE500/11 87.
4. Schutz gegen direktes Berühren nach VDE0100/573, Par. 4.
5. Schutz bei indirektem Berühren nach VDE0100/573, Par. 5.

Diese Schaltpläne sind unser geistiges Eigentum.
Sie dürfen ohne unsere Genehmigung weder ver-
vielfältigt noch Dritten weitergegeben werden !

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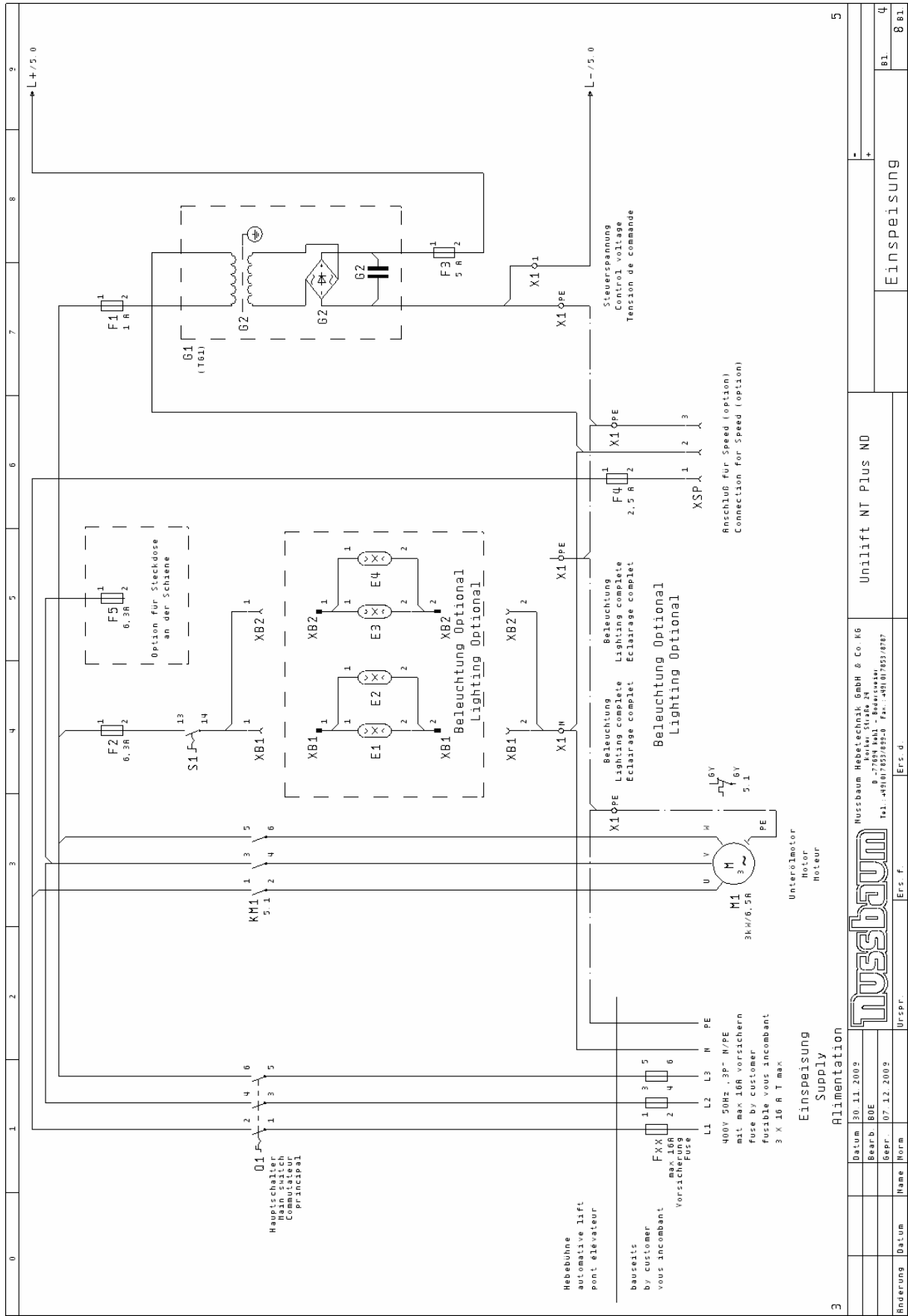
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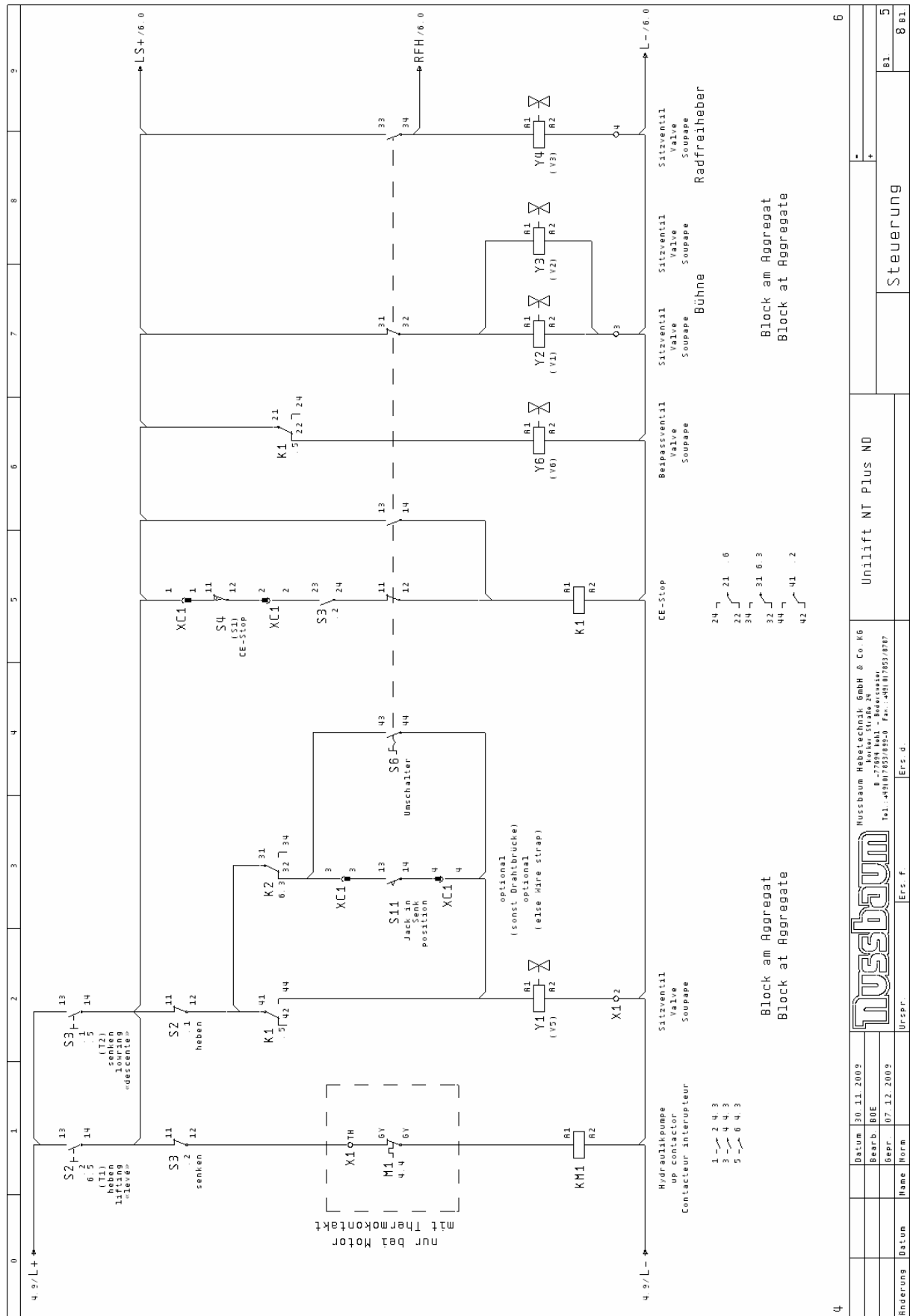
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| Bezeichnung | Menge | Bezeichnung | Typen Nummer | Lieferant | Artikelnummer | | | | |
| E1 | 1 | 2 * Stableuchte, 1+ Klammasten | BELEUCHUNG UNILIFT | Nussbaum Beleuchtung | 0300UM03302 | | | | |
| E2 | 1 | 2 * Stableuchte, 1+ Klammasten | BELEUCHUNG UNILIFT | Nussbaum Beleuchtung | 0300UM03302 | | | | |
| F1 | 1 | Sicherungsklemme Trenner 5+20 mm | N4/8_SF | Entrelec | 990661 | | | | |
| F2 | 1 | Feinsicherung | FEINSICHERUNG | GIF | 990662 | | | | |
| F3 | 1 | Sicherungsklemme Trenner 5+20 mm | N4/8_SF | Entrelec | 990661 | | | | |
| F4 | 1 | Feinsicherung | FEINSICHERUNG | GIF | 990286 | | | | |
| F5 | 1 | Sicherungsklemme Trenner 5+20 mm | N4/8_SF | Entrelec | 990661 | | | | |
| F6 | 1 | Feinsicherung | FEINSICHERUNG | GIF | 990307 | | | | |
| F7 | 1 | Sicherungsklemme Trenner 5+20 mm | N4/8_SF | Entrelec | 990661 | | | | |
| F8 | 1 | Feinsicherung | FEINSICHERUNG | GIF | 990124 | | | | |
| F9 | 1 | Sicherungsklemme Trenner 5+20 mm | N4/8_SF | Entrelec | 990286 | | | | |
| F10 | 1 | Feinsicherung | FEINSICHERUNG | GIF | 990835 | | | | |
| F11 | 1 | Trafo + Gleichrichter + Kondensator | TRAF0_1-PH | Schmelzer | 990331 | | | | |
| F12 | 1 | Digital akustischer Signalgeber | B/P_228 | Delltron Components | 990331 | | | | |
| F13 | 1 | INDUSTRIERELEIS 24V 4 Wechsler | 2741 | BTR | 990267 | | | | |
| F14 | 1 | INDUSTRIERELEIS 24V 4 Wechsler | 110178 | BTR | 990381 | | | | |
| F15 | 1 | INDUSTRIERELEIS 24V 4 Wechsler | 2741 | BTR | 990267 | | | | |
| F16 | 1 | INDUSTRIERELEIS 24V 4 Wechsler | 110178 | BTR | 990381 | | | | |
| F17 | 1 | Leistungschutz 5,7 kA 24 V DC | 118612_01_0_24V DC | Lovalte electric | 990842 | | | | |
| F18 | 1 | Untermotor 3kW/ 6,8/11,8A 50Hz | U07K2-371 | Hanning GmbH | 992628 | | | | |
| F19 | 1 | Hauptsch. Mot.-Bus 3p 16A 5,9kV | A_10573_0200-EV/50 | Herz GmbH | 990403 | | | | |
| F20 | 1 | Mahlkaste 2St. Drehkn. I, 0 rastl. (N22) | N22-VR | Hoeller | 990446 | | | | |
| F21 | 1 | Kontaktblock 15 (N22) | N22-AR10 | Hoeller | 990142 | | | | |
| F22 | 1 | Druckkaste schwarz 25 20 Harquard | 1063_0101 | Harquardt GmbH | 990334 | | | | |
| F23 | 1 | PVC-KAPPE für Schalter Harquard | 203_201_011 | Harquardt GmbH | 990331 | | | | |
| F24 | 1 | Druckkaste schwarz 25 20 Harquard | 1063_0101 | Harquardt GmbH | 990334 | | | | |
| F25 | 1 | PVC-KAPPE für Schalter Harquard | 203_201_011 | Harquardt GmbH | 990331 | | | | |
| F26 | 1 | TI-01 RD 90 | TI-01 RD 90 | Bernstein | 990003 | | | | |
| F27 | 1 | GRENZTRISTER 10 15 KLEIN STANGE | GRENZTRISTER 10 15 KLEIN STANGE | Bernstein | 990003 | | | | |
| F28 | 1 | GRENZTRISTER 10 15 KLEIN STANGE | GRENZTRISTER 10 15 KLEIN STANGE | Bernstein | 990003 | | | | |
| F29 | 1 | Schutzbleitertkl DR 2,5/8 P. RD0 sch-n-schn | DR 2,5/8 P. RD0 | Entrelec | 990679 | | | | |
| F30 | 1 | Schutzbleitertkl DR 2,5/8 P. RD0 sch-n-schn | DR 2,5/8 P. RD0 | Entrelec | 990680 | | | | |
| F31 | 3 | Reihenleuchte 0 1,5/6 P. RD0 sch-n-schn | 0 1,5/6 P. RD0 | Entrelec | 990578 | | | | |
| F32 | 5 | Reihenleuchte 0 1,5/6 P. RD0 brau sch-n-schn | 0 1,5/6 RD0 | Entrelec | 990183 | | | | |
| F33 | 1 | Steckergehäuse 4 polig ku | 2_105_50250251 | RHP | 990408 | | | | |
| F34 | 1 | Buchsengehäuse 4 polig ku | 2_105_50250250 | RHP | 990407 | | | | |
| F35 | 4 | Flachsteckhülse Stecker 6,3mm | 05447_123_111 | RHP | 990328 | | | | |
| F36 | 4 | Flachsteckhülse Buchse 6,3mm CUZH ohne ISD | 08632_123_211 | RHP | 990322 | | | | |
| F37 | 1 | Steckergehäuse 4 polig ku | 2_105_50250250 | RHP | 990408 | | | | |
| F38 | 1 | Buchsengehäuse 4 polig ku | 2_105_50250250 | RHP | 990407 | | | | |
| F39 | 1 | Flachsteckhülse Stecker 6,3mm | 05447_123_111 | RHP | 990328 | | | | |
| F40 | 4 | Flachsteckhülse Buchse 6,3mm CUZH ohne ISD | 08632_123_211 | RHP | 990322 | | | | |
| F41 | 1 | Ventilstecker | GERATESTECNER | Seehausen | 990054 | | | | |
| F42 | 1 | Ventilstecker | GERATESTECNER | Seehausen | 990054 | | | | |
| F43 | 1 | Ventilstecker | GERATESTECNER | Seehausen | 990054 | | | | |

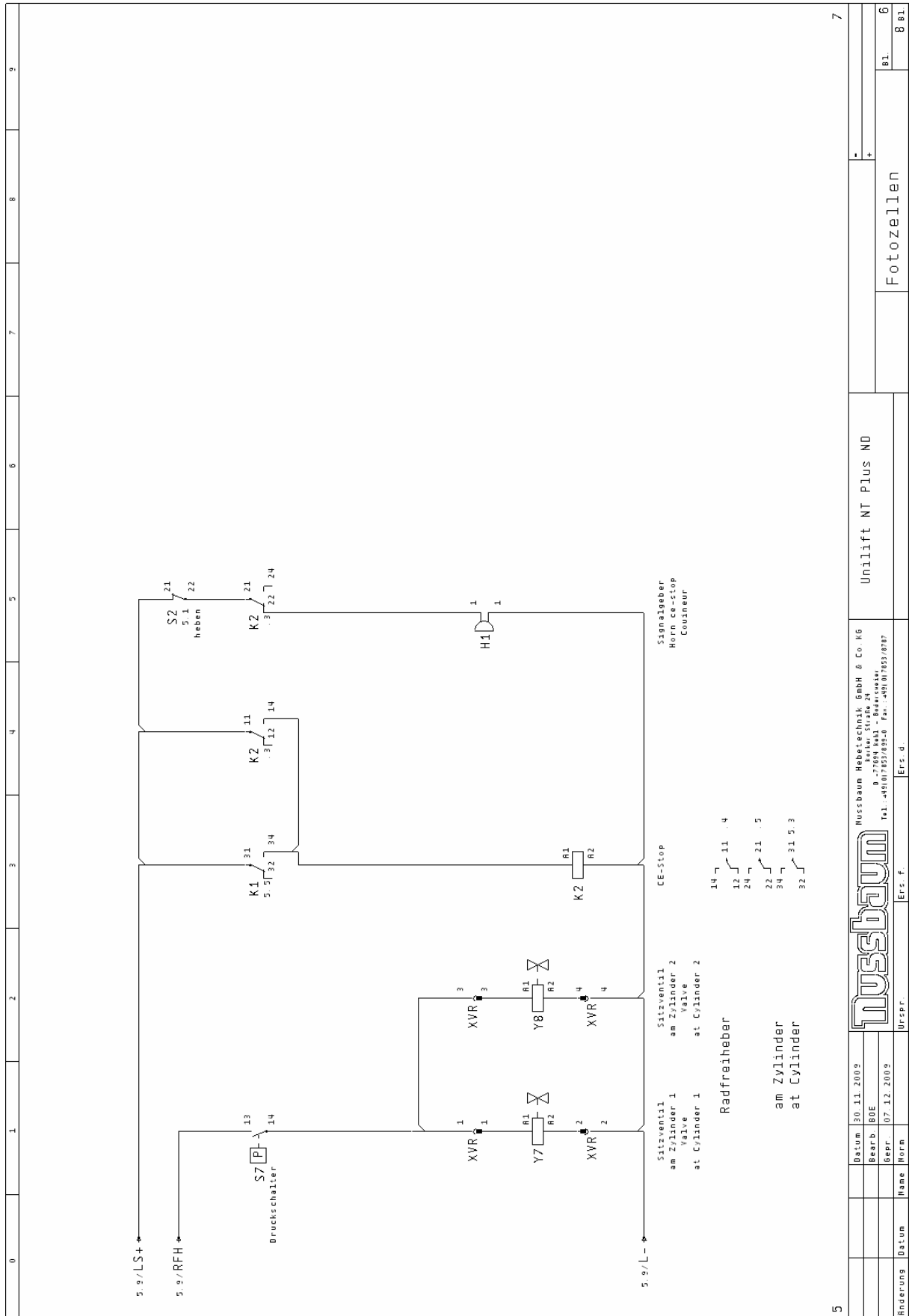
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| | | | | | Nussbaum Rebertechnik GmbH & Co. KG D-70549 Heilbronn - Rebertechnik Tel.: +49 (0) 71 41 93 93 93 Fax: +49 (0) 71 41 93 9 87 87 | | | | |
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| Stückliste | | | | | | | | | | | | | | | | | | | |
| Bauteilbenennung | | Menge | | Bezeichnung | | Typen Nummer | | Lieferant | | Artikelnummer | | | | | | | | | |
| 01 | 1 | Hauptsch. Mot.-Aus 3p 10R 5, 9kV | | A 105/3 0200-EV/50 | | Hers GmbH | | 990403 | | | | | | | | | | | |
| 01 | 1 | Untermotor 3kV/6, 9R 50Hz 400V 2750min-1 | | 025/1 | | Leroy Somer | | 990445 | | | | | | | | | | | |
| X1 | 1 | Schutzleiterkl DP 2, 5/8 P R00 schn-schn | | DR 2, 5/8 P R00 | | Entrelec | | 990679 | | | | | | | | | | | |
| X1 | 1 | Schutzleiterkl 0 1, 5/6 P R00 schn-schn | | 0 1, 5/6 P R00 | | Entrelec | | 990680 | | | | | | | | | | | |
| X1 | 3 | Reihenleuchte 0 1, 5/6 R00 grau schn-schn | | 0 1, 5/6 R00 | | Entrelec | | 990578 | | | | | | | | | | | |
| F2 | 1 | Sicherungsklemme Trenner 5x20 mm | | H4/8 5F | | Entrelec | | 990193 | | | | | | | | | | | |
| F2 | 1 | Feinsicherung | | FEINSICHERUNG | | GIF | | 990661 | | | | | | | | | | | |
| S1 | 1 | Mahltafel 2St. Drehkn. I, 0 rast. (H22) | | H22-HR | | Hoeller | | 990446 | | | | | | | | | | | |
| S1 | 1 | Kontaktblock 1S (H22) | | H22-K10 | | Hoeller | | 990142 | | | | | | | | | | | |
| E1 | 1 | 2 = Stablauchte, 1 = Klemmkasten | | BELEUCHTUNG UNILIFT | | Nussbaum Beleuchtung | | 0300LMO3302 | | | | | | | | | | | |
| E3 | 1 | 2 = Stablauchte, 1 = Klemmkasten | | BELEUCHTUNG UNILIFT | | Nussbaum Beleuchtung | | 0300LMO3302 | | | | | | | | | | | |
| F5 | 1 | Sicherungsklemme Trenner 5x20 mm | | H4/8 5F | | Entrelec | | 990661 | | | | | | | | | | | |
| F5 | 1 | Feinsicherung | | FEINSICHERUNG | | GIF | | 990286 | | | | | | | | | | | |
| F4 | 1 | Sicherungsklemme Trenner 5x20 mm | | H4/8 5F | | Entrelec | | 990661 | | | | | | | | | | | |
| F4 | 1 | Feinsicherung | | FEINSICHERUNG | | GIF | | 990124 | | | | | | | | | | | |
| F1 | 1 | Trafo + Beschrichter + Kondensator | | TRAF0 1-PH | | Schmelzer | | 990835 | | | | | | | | | | | |
| F1 | 1 | Sicherungsklemme Trenner 5x20 mm | | H4/8 5F | | Entrelec | | 990661 | | | | | | | | | | | |
| F1 | 1 | Feinsicherung | | FEINSICHERUNG | | GIF | | 990662 | | | | | | | | | | | |
| F3 | 1 | Sicherungsklemme Trenner 5x20 mm | | H4/8 5F | | Entrelec | | 990661 | | | | | | | | | | | |
| F3 | 1 | Feinsicherung | | FEINSICHERUNG | | GIF | | 990307 | | | | | | | | | | | |
| S2 | 1 | Drucklaste schwarz 25 20 Harquard | | 1663 0101 | | Harquard GmbH | | 990334 | | | | | | | | | | | |
| S2 | 1 | PVC-KAPPE für Schalter Harquard | | 203 201 011 | | Harquard GmbH | | 990321 | | | | | | | | | | | |
| KH1 | 1 | Lastenschutz 5, 7, kWh 24 V DC | | 118612 01 0 24V DC | | Levato electric | | 990842 | | | | | | | | | | | |
| S3 | 1 | Drucklaste schwarz 25 20 Harquard | | 1663 0101 | | Harquard GmbH | | 990334 | | | | | | | | | | | |
| S3 | 1 | PVC-KAPPE für Schalter Harquard | | 203 201 011 | | Harquard GmbH | | 990321 | | | | | | | | | | | |
| V1 | 1 | Ventilstecker | | GERATESTECER | | Harquard GmbH | | 990054 | | | | | | | | | | | |
| S6 | 1 | Mahltafel 2St. Drehkn. I, 0 rast. (H22) | | H22-HR | | Bernstein | | 990003 | | | | | | | | | | | |
| S6 | 1 | Kontaktblock 1S 10 (H22) | | H22-K10 | | Hoeller | | 990132 | | | | | | | | | | | |
| S6 | 1 | Kontaktlement 1S (H22) | | H22-K10 | | Hoeller | | 990133 | | | | | | | | | | | |
| S6 | 1 | Kontaktlement 10 (H22) | | H22-K01 | | Hoeller | | 990181 | | | | | | | | | | | |
| S4 | 1 | TI-01 R0 90 | | GERATESTECER | | Bernstein | | 990003 | | | | | | | | | | | |
| F4 | 1 | INDUSTRIEPELIS 24V 4 Wechsler | | 2741 | | BR | | 990267 | | | | | | | | | | | |
| R1 | 1 | Industriereleasockel für 4 Wechsler | | 110178 | | BR | | 990381 | | | | | | | | | | | |
| V6 | 1 | Ventilstecker | | GERATESTECER | | Seehausen | | 980054 | | | | | | | | | | | |
| V2 | 1 | Ventilstecker | | GERATESTECER | | Seehausen | | 980054 | | | | | | | | | | | |
| V3 | 1 | Ventilstecker | | GERATESTECER | | Seehausen | | 980054 | | | | | | | | | | | |
| V4 | 1 | Ventilstecker | | GERATESTECER | | Seehausen | | 980054 | | | | | | | | | | | |
| S7 | 1 | Druckschalter 1 Wechsler | | DRUCKSCHALTE 2 BAR | | Nussbaum | | 05H000/003 | | | | | | | | | | | |
| V7 | 1 | Ventilstecker | | GERATESTECER | | Seehausen | | 980054 | | | | | | | | | | | |
| V8 | 1 | Ventilstecker | | GERATESTECER | | Seehausen | | 980054 | | | | | | | | | | | |
| R2 | 1 | INDUSTRIEPELIS 24V 4 Wechsler | | 2741 | | BR | | 990267 | | | | | | | | | | | |
| R2 | 1 | Industriereleasockel für 4 Wechsler | | 110178 | | BR | | 990381 | | | | | | | | | | | |
| R1 | 1 | Digitond akustischer Signalleber | | B/P 228 | | Deliron Components | | 990331 | | | | | | | | | | | |

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| Nussbaum Hebe-technik GmbH & Co. KG Industriestraße 24 D-70614 Heilbronn - Bismarckpark Tel.: +49(0)7141 92919330 Fax: +49(0)7141 9291933 | | | | | | | | | | Unilift NT Plus ND | | | | | | | | | |
| Nussbaum | | | | | | | | | | Stückliste | | | | | | | | | |
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4. Safety regulations

If you use the automotive lift, the German following regulations are to be considered:
BGG945: Examine of automotive-lifts; BGR260 Using automotive-lifts; (VBG14).

Especially the following regulations are very important:

- The laden weight of the lifted vehicle mustn't be more than 3500 kg for the automotive lift without wheel free lift. (UNI-LIFT 3500 NT ND)
- The laden weight of the lifted vehicle mustn't be more than 3200 kg for the automotive lift with wheel free lift. (UNI-LIFT 3200 NT PLUS ND)
- The laden weight of the lifted vehicle must not be more than 2500 kg for the wheel free lift.
- The automotive lift must be lowered completely, before the vehicle is driving, in the provided direction, on the lift.
- During working with the lift the operating instruction has to be followed.
- At vehicles with low sub-ground clearance or with optional equipment (sport equipment) or sport-vehicles, it is to be tested previously whether damages can appear.
- Only trained personnel over the age of 18 years old are to operate this lift.
- Position the polymer supports as described of the vehicle manufacturer under the vehicle. (Version with wheel free lift)
- The correct position of the polymer pads has to be checked after the vehicle has been lifted a little bit.
- It's not allowed to stay under the lifted or lowered vehicle (except for the operator).
- Check the center of gravity of the vehicle if heavy parts are removed. (Version with wheel free lift)
- It's not allowed to transport passengers on the lift or in the vehicle.
- It's not allowed to climb onto the lift or onto a lifted vehicle.
- The automotive lift must be checked from an expert after changes in construction or after repairing carrying pads.
- It's not allowed to start with operations at the lift before the main switch is switched off.
- During lifting or lowering the vehicle it must be observed from the operator.
- It's not allowed to install the standard-automotive lift in hazardous location or in washing bays.

5. Operating instructions



***The Safety Regulations must be observed during working with the automotive lift.
Read the safety regulations in chapter 4 carefully before working with the lift!***

5.1 Lifting the vehicle

- Drive vehicle over the lift, longitudinal axes on line of the lift.
- Block the vehicle against rolling, put into gear, use the parking brake.
- Check the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift.
- Switch on the control system; main switch on position "1" (see pic.1)
- Choose between main lift/ wheel free lift (see pic.1, 4)

- (Wheel free lift) Position the polymer supports under the pick-up points which are described by the vehicle manufacturer. Do not lay them on edge! The vehicle might fall down!
- Raise the lift. Press the button „lifting“.
- (Wheel free lift): Stop the lifting when the wheels are free to check the safe position of the vehicle on the polymer pads.
- Lift the vehicle on the working height. Press the button „lifting“ .



pic. 1: operation unit

1 main switch

2 button „lifting“

3 button „lowering“

4 reversing switch main lift/wheel free lift

5.2 Lowering the vehicle

- Check the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift.
- Choose between main lift/ wheel free lift (see pic.1, 4)
- Lower the vehicle to the working height or until the platform reaches the lowest point; press the button „lowering“ .
- Observe the complete process.
- Before the main lift reaches the lowest position, it stops (approx. 120 mm). Let off the „lowering“. Control the dangerous places. Press the button again. You hear an acoustic signal until the lift reaches the lowest position.
- When the lift is in its lowest position, remove the polymer supports (wheel free lift)
- Drive the vehicle out of the lift if the lift (main lift) is in the lowest position.

5.3 Equalization of the platforms

Because there are two independent hydraulic systems, differences between the two rails should normally not appear when you operate the lift correctly.

Check possible mistakes before you equalize the two platforms (for instance a leakage of the hydraulic system or another external mistake)



Equalize the rails only without load!

Before an equalization you have to remove any kind of load of the lift!

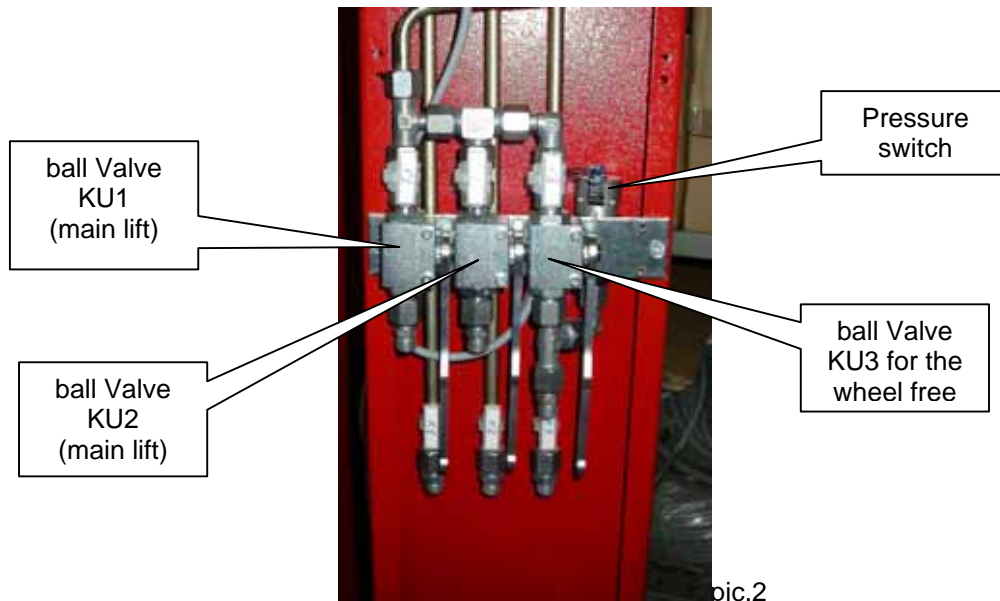
An equalization could be necessary when one side isn't let down completely into the lowest position or if the loads of the two rails are very different of each other, for example.

Correct equalization:

Situation: One platform is higher than the other.

preparations/measures:

- Lower the lift as far as possible into the lowest position. Press button „lowering“.



pic. 2: ball valves for the equalization of the lift.

- Remove the cover of the operation unit (back side)
- Raise the main lift on the highest end position. Pull ball valve KU1 and KU2 and press button „Lifting “ once again. Put the ball valves into the start position again.
- **Equalization of the wheel free lift:**
Choose the wheel free lift (“RFH”) at the reversing switch (see pic.1, 4)
Lift the wheel free lift in the highest position.
Pull ball valve KU3 and press button „lifting or lowering“ until the platforms are on the same height. Put the ball valve into the start position, again.

5.4 Change the position of the Turntable

- It is possible to enlarge (max.100mm) the distance between the sliding plate and the turn table. This is necessary to reach the maximum wheel base distance of max.3240mm.
- Raise the lift on the top end position. Remove the 8 piece thumbscrews under the platform.
- Lower the lift on approx. 800mm.
- Remove both Turntables. Rotate both Turntable to 180° and then position the Turntable from the right side to the left side and the left turntable to the right side.
- Raise the lift on the top end position. Fasten the 8 piece thumbscrews under the platform, again.

6. Troubleshooting

If the lift does not work properly, the reason for this might be quite simple. Please check the lift for the potential reasons mentioned on the following pages. If the cause of trouble cannot be found, please call the technical service.

Problem: Motor does not start!

possible causes:

- no power supply
- The main switch is not engaged
- The fuse is defective
- The feed line is cut
- The thermal switch in the motor is active
- The Motor is defective

solution:

- Check the power supply
- Put main switch on
- Check fuse and replace it if necessary
- Repair it
- Let it cool down
- Call your service partner

Problem: Motor starts, lift does not lifting!

possible causes:

- The vehicle is too heavy
- Level of the oil is too low
- Leakage of the hydraulic system
- The Gear pump is defective

solution:

- Unload it
- Fill oil in
- Repair the system
- Call your service partner

Problem: The lift does not lower!

possible causes:

- The lift is standing on a obstacle
- Hydraulic valve id defective
- The fuse is defective
- Button „lowering“ not pushed
- Seat valves cannot be unlocked

solution:

- Push button „lifting“
- Call your service partner
- Check fuse and replace it if necessary
- Push the correct button!
- Emergency lowering

6.1 Driving on an obstacle

If the lift drives on an obstacle, the hydraulic system has got no more pressure and the lift stops. To remove the obstacle the lift has to rails have to be lifted a little. Therefore push button „lifting“ until the obstacle can be removed.

6.2 Emergency lowering of the main lift/ wheel free lift



A emergency lowering is an intervention into the control of the lift and can be done only by experienced expert.

The emergency lowering must be carried in this order. Otherwise a malfunction can lead it to damages or lead to danger for body and lives.



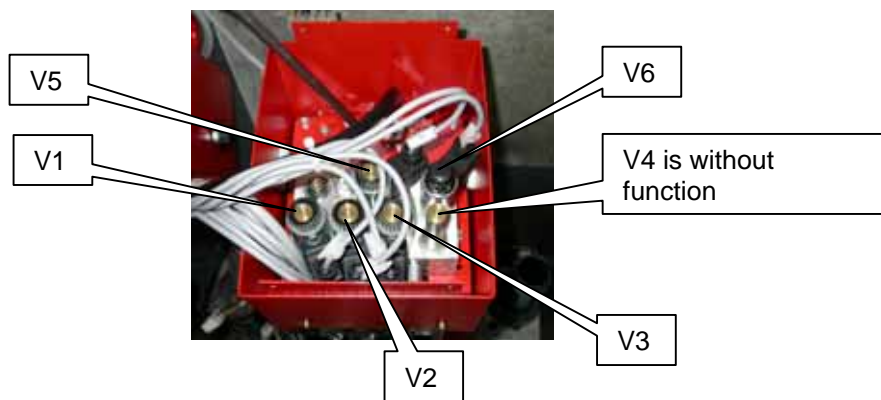
Every kind of external leakage must be removed. This is necessary particular before an emergency lowering.

Reasons which provoke an emergency lowering are e.g. disturbances of the valves or a breakdown of the power supply.

Main-Lift

1. Disconnect the lift from the power supply before starting the emergency lowering.
2. Open the covers of the operating unit. You have to be able to reach the seat valves of the hydraulic bloc. (pic. 4)
3. Check the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift.
4. Emergency lowering of the main lift: Press simultaneously in the middle of the brass head the valves V1, V2, V5 with a suitable tool.
5. Observe the complete emergency lowering procedure.
6. Lower the main lift into the lowest position.

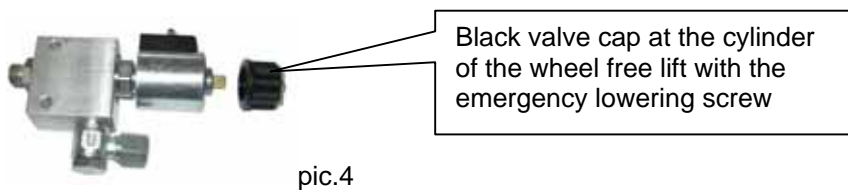
Pic.3



pic. 4 Valves with buttons for emergency lowering

Wheel free lift

1. Unscrew the black cap of the valves at both hydraulic cylinder. Turn the emergency lowering screws maximum one rotation anticlockwise (brass).



2. Press simultaneously in the middle of the brass head the valves V3, V5 with a suitable tool.
3. The lowering starts immediately. If there is any danger, let off the valves and stop the emergency lowering!!
4. Observe the complete procedure.
5. Lower the lift or the wheel free lift in his lowest position.
6. Change the defect parts of the lift, before you initiate the lift again, if it is necessary. Therefore call your service partner.



Switch off the main switch and lock it. Do not work with the lift until the faulty parts are exchanged.

7. Inspection and Maintenance



Before conducting maintenance work, preparations must be made to ensure that during maintenance and repair work there is no risk to the safety of people working on or around the lift and also that there is no risk of damage to equipment being used on or around the lift.

To guarantee the utmost availability and to ensure that the lift remains functional, maintenance work contracts are organised between our clients and their local retailers.

A service must be performed at regular intervals of 3 months through the operator in accordance with following service manual. If the lift is in continuous operation or in a dirty environment, the maintenance rate must be increased.

During daily operation the lift must be closely observed to ensure that it is functioning correctly. In the case of malfunction or leakage the technical service must be informed.

Nußbaum lifts have been designed and manufactured for longevity and safe operation. Proper installation and operation, regular inspections and ensuing preventative maintenance by authorised personnel and product care, are the key to operators safety, product reliability, low overall repair costs, qualified warranty claims and finally, longevity of the lift.

The following are the minimum, requirements regarding the maintenance of Nußbaum-lifts.

7.1 Maintenance plan of the lift



Before beginning any maintenance work isolate the power supply. Secure the main switch (lock it). Secure the danger area around the automotive lift and secure the lift against unintentional lowering.

- Clean and check the stripper of the cylinder.
- Clean the piston-rod using compressed air.
- Check the function and condition of the bolts, axes, bush bearing, sliding peace. If necessary exchange it.
- Clean and lubricate the moving parts of the lift (hinge bolts, sliding pieces, sliding surfaces) grease with a multipurpose liquid (example: Auto Top 2000 LTD. Agip).

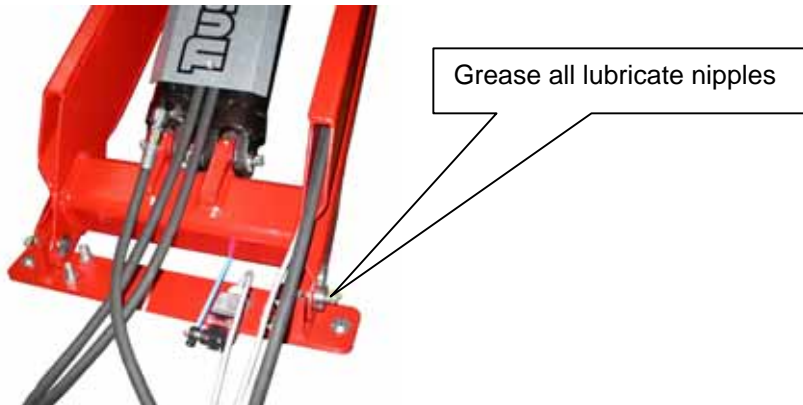


Bore hole in the sliding block for greasing

- Grease all lubricate nipples with a multipurpose lipid. (example: Auto Top 2000 LTD. Agip).



Bore hole in the Platform for greasing the lubricate nipples in the sliding block. Move the sliding block in position.



- Check the condition of the white polymer supports. If necessary, exchange it
- Check the condition and function of the roll over safety device. (approx. 45 ° position)
- Check the hydraulic tubes for leakage.
- Check all welded joints for cracks on the automotive-lift.
If any cracks are found on the lift cease use immediately. Switch-off and secure the main switch (lock) and call the service partner.
- Damage to external surfaces, must be immediately repaired.
If these repairs are not made immediately, permanent damage to the powder-coated surface may result.
Repair and clean damaged areas with an abrasive paper (grain 120). After this is complete, use a suitable paint (observe the RAL Number).
- Check the zinc surface and repair it with a suitable tool. Use abrasive paper (grain 280).
White rust can result from moisture laying in certain areas for long periods of time. Poor aerating can also result in rust formation.
Rust may result from mechanical damage, wear, aggressive sediments (de-icing salt, liquids) or insufficient cleaning.
Repair and clean these areas with abrasive paper (grain 280).
After this is complete, use a suitable paint (observe the RAL Number).
- Füllstand des Hydrauliköls überprüfen. Ggf. sauberes Hydrauliköl nachfüllen.
- The hydraulic oil has to be changed at least once a year. To change the oil, lower the lift into its lowest position. Empty all tanks and refill with clean oil, approx. (see chapter 3.) per hydraulic unit are needed.
Use an ATF-Suffix hydraulic-oil (OEST Company) if the ambient temperature is under 5 degrees centigrade. After filling, the hydraulic oil must be between the upper and lower markings of the oil level gauge.
Remove the old oil according to the appropriate regulations.
- Durability of the hydraulic hoses:
The use duration of the hose lines should not exceed six years, including a storage time of at most two years.
- Check that all screws and bolts are correctly torque (turning moments, see the list)

Turning moment for screws

property class 8.8

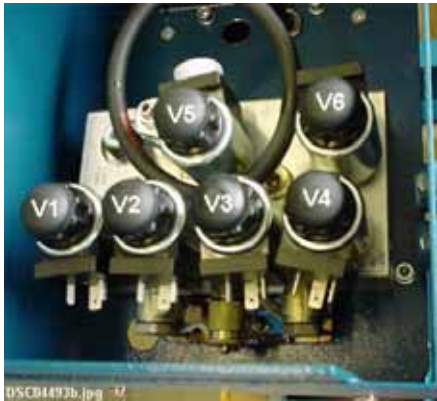
| | 0,10* | 0,15** | 0,20*** |
|-----|-------|--------|---------|
| MB | 20 | 25 | 30 |
| M10 | 40 | 50 | 60 |
| M12 | 69 | 87 | 105 |
| M16 | 170 | 220 | 260 |
| M20 | 340 | 430 | 520 |
| M24 | 590 | 740 | 890 |

property class 10.9

| | 0,10* | 0,15** | 0,20*** |
|-----|-------|--------|---------|
| M8 | 30 | 37 | 44 |
| M10 | 59 | 73 | 87 |
| M12 | 100 | 125 | 151 |
| M16 | 250 | 315 | 380 |
| M20 | 490 | 615 | 740 |
| M24 | 840 | 1050 | 1250 |

- * sliding friction 0,10 for very good surfaces, lubricated
- ** sliding friction 0,15 for good surfaces, lubricated oder dry
- *** sliding friction 0,20 surface black or phosphatized, dry

Drillmomentele 8.8-10.9 E



The valves (cartridges) have to be tightened with approx. 30 – 35 Nm in regular intervals. (see attachment) With intensive utilization of the lifting platform, the maintenance interval has to be curtailed.

Before the cartridges with the demanded turning moment can be tightened, the coils have to be removed through releasing the black turn-lock fastener.



Fasten the screws (M16/10.9) with 180Nm

7.2 How often must the lift be cleaned?

A regular and appropriate maintenance practice will aid the preservation of the lift.

No guarantees can be given when damage (egg rust or fading colour) is the direct result of poor maintenance and cleaning practice.

Regular cleaning of all kinds of dirt is the best protection against wear and the formation of rust and will prolong the life of the lift

- Dirty deposits that can cause rust include:

- de-icing salt
- sand, pebble stone, natural soil
- all types of industrial dust
- water; also in connection with other environmental influences
- all types of aggressive deposits
- constant humidity caused by insufficient ventilation

Obviously this is dependent on the type of work being done with the lift, the degree of cleanliness of the workshop and location of the lift. The degree and amount of dirt is dependent on the season, on the weather conditions and the ventilation of the workshop. During poor conditions it may be necessary to clean the lift once week, but cleaning once a month will suffice.

Clean the lift and the floor with a non-aggressive and non-abrasive detergent. Use a gentle detergent to clean the parts. Use an standard washing-up liquid and lukewarm water.

- Do not use steam jet cleaners.
- Remove all dirt carefully with a sponge or if necessary with a brush.
- Ensure that no washing-up liquid is left on the lift after cleaning.
- Do not use aggressive means for cleaning the workshop floor and the automotive lift.
- A permanent contact with any kind of liquid is not allowed. Do not use high pressure devices for cleaning the lift.
- After cleaning dry the automotive-lift with a suitable type of cloth and inject it with a wax spray or an oil spray.

8. Security check

The security check is necessary to guarantee the safety of the lift during use. It has to be performed in the following cases:

1. Before the initial operation, after the first installation.
Use the form "First security check before initiation"
2. In regular intervals after the initial operation, at least annually.
Use the form "Regular security check at least annually"
3. Every time the construction of that particular lift has been changed.
Use the form "Extraordinary security check"



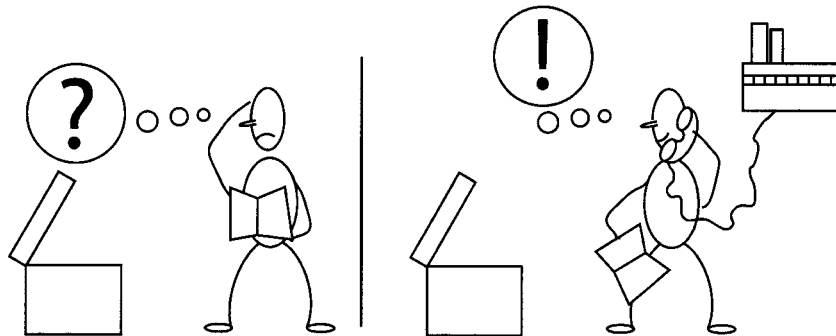
The first and the regular security check must be performed by a competent person. It is also recommended to carry out a service on the lift at this time.



After the construction of the lift has been changed (changing the lifting height or capacity for example) and after serious maintenance works (welding load bearing parts) an extraordinary security check must be performed by an expert.

This manual contains forms with a schedule for the security checks. Please use the appropriate forms for the security checks. The forms should remain in this manual after they have been filled out. A short description about special safety devices follows.

9. Handing over and Initiation



9.1 Installation Regulations

- The installation of the lift is performed by trained technicians of the manufacturer or one of its distribution partners. If the operator can provide trained mechanics, he or she can install the lift by him or herself. The installation has to be done according to this regulation.
- Installing the standard-automotive lift in a hazardous location or a washing bay is not allowed.
- Before installation a sufficient foundation must be constructed. If the foundation is already constructed then proof that the foundation conforms to the standard is required.
A level foundation for the installation is required. The foundations must be based in a frost resistance depth, both outdoors and indoors in a position where the installer believes there is no chance of frost.
- An electrical supply 3~/N+PE, 400 V, 50 Hz must be provided.
The supply line must be protected with a time-lag fuse T16A (VDE0100 German regulation).
The minimum diameter amounts to 2.5 mm².
- All cable ducts must be equipped with protective coverings to prevent accidents.
- After assembly of the lift, the protective grounding of the lift must be examined after International Electrotechnical Commission (IEC) guidelines (60364-6-61) before first start-up by operators. Also an insulation resistance examination is recommended.

9.2 Installation of the lift

- Install the lift according to the data sheet and the foundation plan.
- Install the operating unit at its designed place. Connect the power supply.
- Connect the hydraulic. All hoses are marked.
- Fill in the hydraulic oil, approx. 14 litres are needed. A high quality hydraulic oil is recommended, it should be 32 cst. (e.g. HLP 32 LTD. OEST Company) After the fill up, the hydraulic oil must be between the upper and low marking of the oil level gauge or approx. 2 cm under the filler neck.
- Push button „lifting“ until the vent screws (on the top of the slave cylinders, see pic. 5) can be reached. Execute a deaerate according to chapter 9.6, if necessary.
- Adjust the lift: first one base plate, than the second base plate. If there is an uneven floor even it with metal sheets. A continuous contact between the floor and the base plate must be guaranteed to avoid hollow spaces. Dowel the lift:
Nussbaum Company recommend safety dowels (e.g. LIEBIG German dowel manufacturer) or equivalent dowels of other manufacturer but observe their regulations.
Before dowering check the concrete floor (with quality C20/25) if the concrete floor goes to

the top edge of the floor. For an existing concrete floor the dowels have to be chosen according to pic. 8. If floor tiles are on the concrete floor, the dowels have to be chosen according pic. 9. Its important for the trouble-free working that the base plate are clean and the guides of the sliding block are clean and greased.

Check the adjustment of the base plates and dowel the lift: Bore the holes to fix the dowels through the borings of the base plates. Clean the holes with pressure air. Put in the safety dowels.

- Dowel the aggregate in the floor.
- Tighten the dowels with the dynamometric key.



Each dowel must be tightened with the demanded torque. Otherwise the normal and secure function of the lift can not guaranteed. Observe the regulations of the other dowel-manufacturer.

- Raise and lower the lift several times with load. Check the torque of the dowels and check the hydraulic hoses tightness.
- Equalize the lift, if this is necessary.
- Mount the covers: Do not damage the cables.

9.3 Deaerate the hydraulic system (main lift)

- The correct power supply, the correct hydraulic oil and the closeness of the hydraulic system have to be controlled after the installation of the lift.

By connecting the hydraulic hoses, air might enter the hydraulic system and provoke problems of ganging. In consequence a Ventilation is necessary.

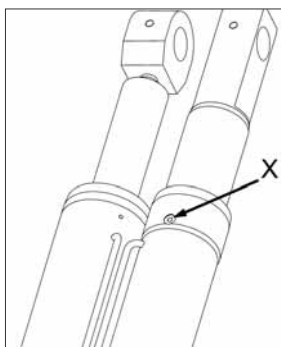
Check again the correct installation of the hydraulic hoses!

Effects, which make a Ventilation necessary are e.g. a sudden lifting out of the lowest position or unequal rails.

Correct Ventilation:

There have to be 14 litres of hydraulic oil filled in the oil tank.

- Choose the main lift at the reversing switch (see pic.1)
- Open the vent screws on the top of the slave cylinders a little bit.
Do not open them completely.
- Push button „lifting“. The air streams out of the borings on the slave cylinders. Keep the screws open until only hydraulic oil comes out of the borings. Close the vent screws afterwards.



pos. X = vent screw on the top of the slave cylinders



If you do not close the vent screws, trouble and disturbances of the lift will occur!

- Push button „lifting“ and drive the lift into the highest position. Repeat the procedure of ventilation, if necessary.
- Check if the vent screws are closed.
- Push button „lowering“ and drive the lift into the lowest position. (While you lower the lift it is possible that the oil-air mix makes sounds) .

9.4 Initiation



Before the initiation a security check must be performed. Therefore use form: First security check.

If the lift is installed by a competent person, he will perform this security check. If the operator installs the lift by himself, he has to instruct a competent person to perform the security check.

The competent confirms the faultless function of the lift in the installation record and form for the security check and allows the lift to be used.



Please send the filled installation record to the manufacturer after the installation.

9.5 Changing the installation place

If the place of installation shall be changed, the new place has to be prepared in according to the regulations of the first installation. The changing should be performed in accordance with the following points:

- Raise the lift on approx. 1000 mm.
- Remove the cover of the hydraulic tubes.
- Loose the dowels.
- Lower the lift in the lowest position.
- Loose the plug of the power supply.
- If necessary loose the hydraulic hoses only on the operating unit.
- If necessary use blind plugs to close the hoses.
- Disconnect the power supply.
- Transport the lift to its new place.
- Install the lift in accordance with chapter 9 “ Installation and Initiation”.
- Equalize and deaerate the lift!

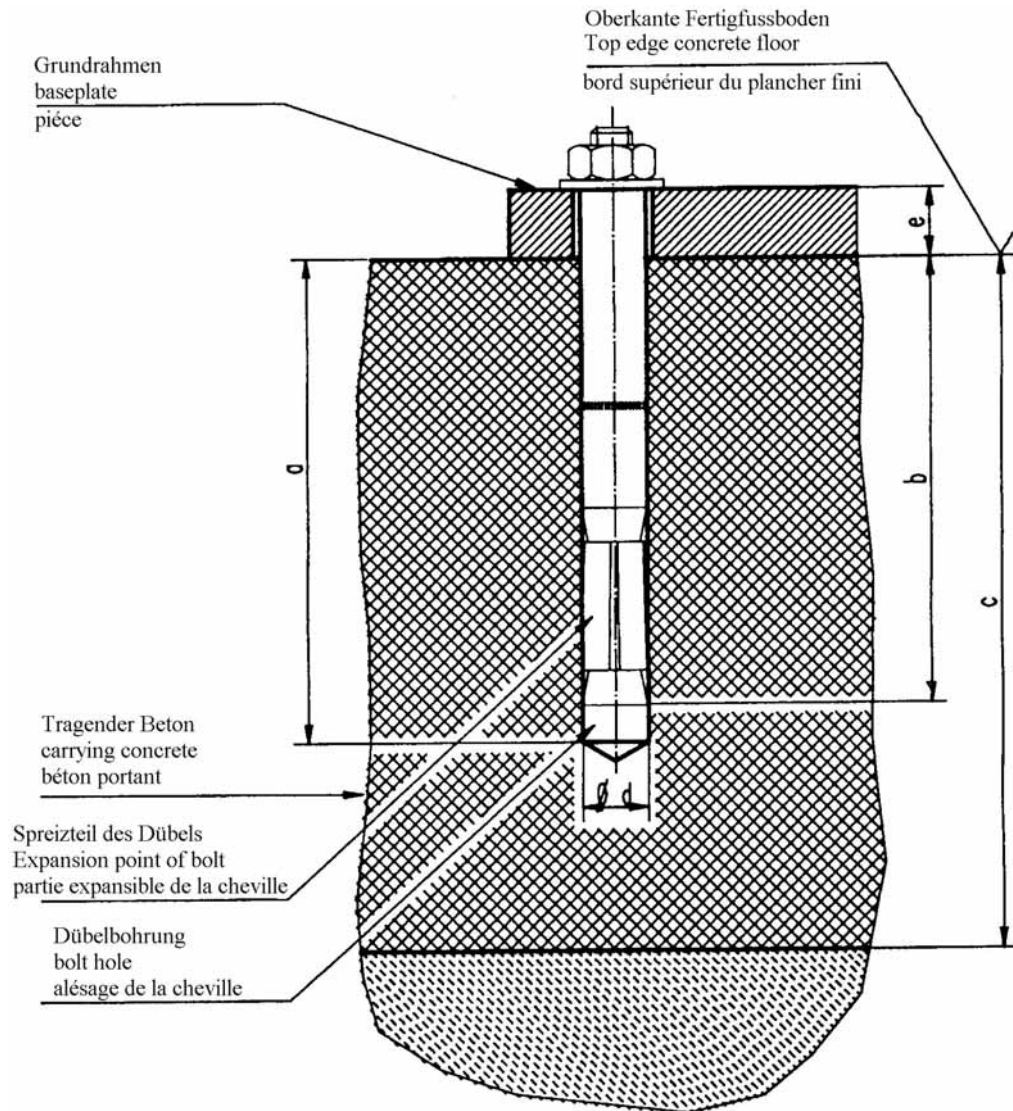


Use new dowels, the used dowels can not be used anymore.



A security check must be performed before reinitiation by a competent person. Use form “Regular security check”

Pic 8: Selection of Liebig-Dowels without tiles, floor pavement



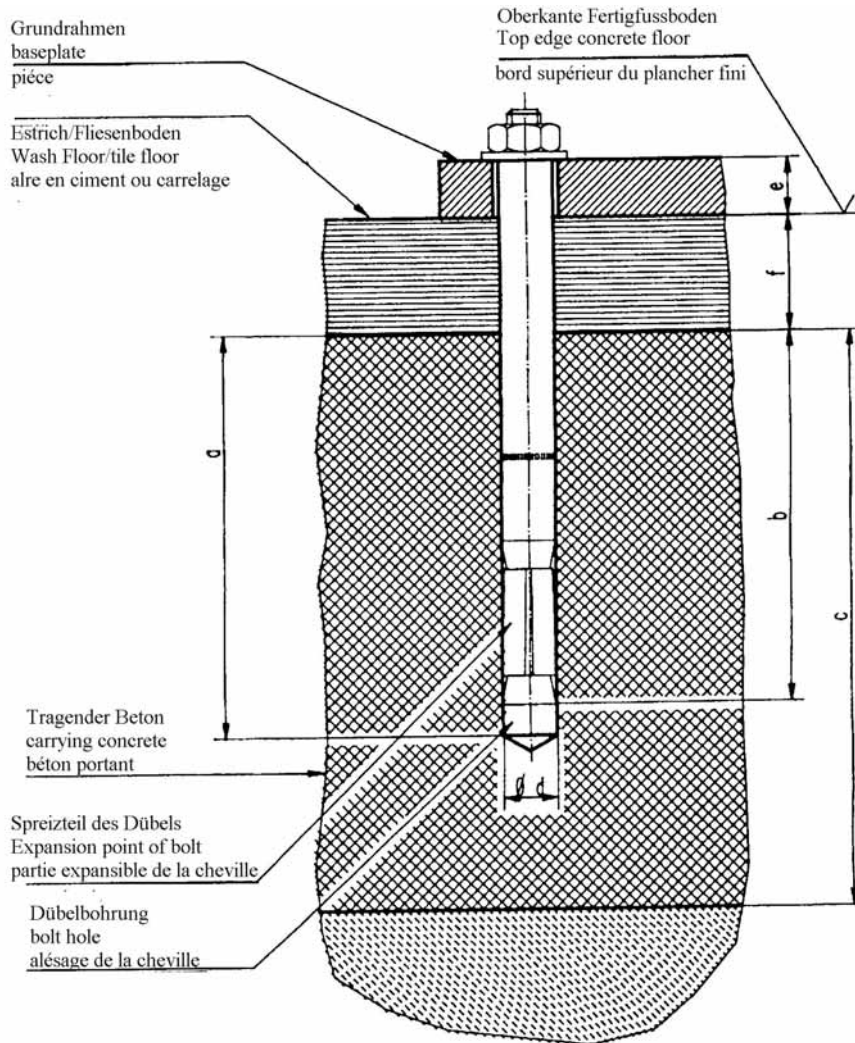
Liebig dowels

| | | |
|------------------------------|---|--|
| Dowel typ | | BM12-20/80/40 |
| Drilling depth | a | 100 |
| Min. anchorage depth | b | 80 |
| Thickness of concrete | c | min.160 (*) |
| Diameter of bore | d | 20 |
| Thickness of the lift-pieces | e | 0-40 |
| Quality of concrete | | min.C20/25 (B25) with normal armouring |
| Number of bolts | | according to the lift type |
| Starting torque | | 70 Nm |

(*) minimum thickness of concrete by using the mentioned dowels. Otherwise, observe the regulation of the foundation plan.

It is possible to use equivalent dowels from another dowel manufacturer (with license) but observe their regulation.

Pic 9: Selection of Liebig-Dowels with tiles, floor pavement

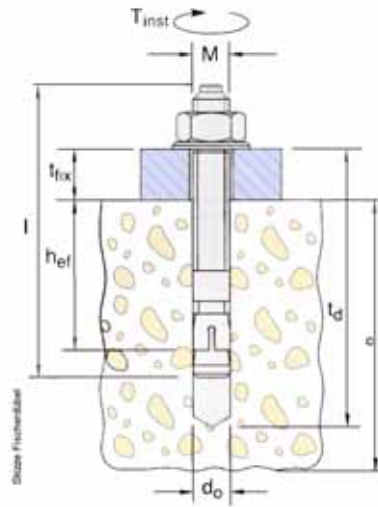


Liebig dowels

| Dowel type | | BM12-20/80/65 | BM12-20/80/100 | BM12-20/80/140 |
|-----------------------------------|-----|--|----------------|----------------|
| Drilling depth (mm) | a | 100 | 100 | 100 |
| Min. anchorage depth (mm) | b | 80 | 80 | 80 |
| Thickness of concrete (mm) | c | min.160(*) | min.160(*) | min.160(*) |
| Diameter of bore (mm) | d | 20 | 20 | 20 |
| Thickness of the lift-pieces (mm) | e+f | 40-65 | 65-100 | 100-140 |
| Quality of concrete | | min.C20/25 (B25) with normal armouring | | |
| Number of bolts | | according to the lift type | | |
| Starting torque | | 70 Nm | 70Nm | 70Nm |

(*) minimum thickness of concrete by using the mentioned dowels. Otherwise, observe the regulation of the foundation plan.

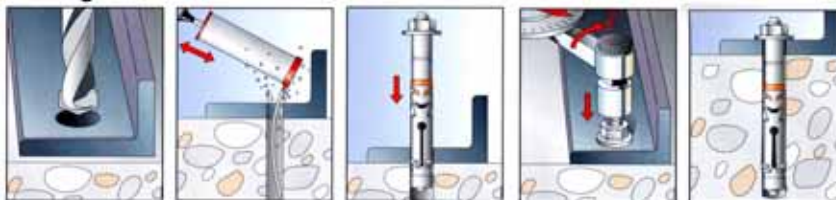
It is possible to use equivalent dowels from another dowel manufacturer (with license) but observe their regulation.



Änderungen vorbehalten!
subject to alterations!
sous réserve des modifications!

| fischer-dowel | | UNI-Lift 3200 NT Plus ND ^d | UNI-LIFT 3500 NT ND ^d | |
|--|------------------|---|--|----------------------------------|
| Dübel typ of dowel type de cheville | | FH 15/50 B Bestellnr. 970265 | FH 18 x 100/100 B Bestellnr: 972230 | FH 24/100 B Bestellnr. 970267 |
| Bohrteife drilling depth Profondeur de l'alésage | t _d | 145 | 230 | 255 |
| Mindestverankerungstiefe min.anchorage depth Profondeur minimale d'ancrage | h _{ef} | 70 | 100 | 125 |
| Betonstärke thickness of concrete Epaisseur du béton | c | siehe den aktuellen Fundamentplan see current foundation-diagram drawing vois le plan de fondation actuel | | |
| Bohrerdurchmesser diameter of bore Diamètre de l'alésage | d _o | 15 | 18 | 24 |
| Bauteildicke thickness of the lift-piece Epaisseur de la pièce | t _{fix} | 0-50 | 0-100 | 0-100 |
| Anzugsdrehmoment Nm turning moment moment d'une force | M _D | 40 | 80 | 120 |
| Gesamtlänge Total length Longueur totale | l | 155 | 230 | 272 |
| Gewinde Thread fil | M | M10 | M12 | M16 |
| Stückzahl piece number nombre des pièces | a | 4 | | |
| | b | 8 | | |
| | c | 10 | | |
| | d | 12 | | |
| | e | 16 | | |
| | f | 24 | | |
| | g | 14 | | |

Montage



Es können auch gleichwertige Sicherheitsdübel anderer Hersteller (mit Zulassung) unter Beachtung deren Bestimmungen verwendet werden.
It is possible to use equivalent safety-dowels (with license) of other manufacturer but observe their regulations.
Des chevilles des autres marques (autorisées) peuvent aussi être choisies en respectant les directives du fabricant.

First security check before installation



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | ver-ification | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....
signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | ver-ification | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | veri- fication | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | veri- fication | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | veri- fication | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | veri- fication | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | veri- fication | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Regular security check and maintenance



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | veri- fication | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

Extraordinary security check



Fill out and leave in this manual

Serial-number: _____

| kind of check | all right | defect missing | ver-ification | remark |
|---|--------------------------|--------------------------|--------------------------|--------|
| Type plate..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| short operating instruction | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| sticker capacity | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Detailed operating instruction..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition automotive-lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Designation „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function button „lifting/lowering“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function switch „main lift/wheel free lift“..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Hydraulic unit..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Electrical box..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function main switch..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pin safety of the bolts..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function CE-Stop + acoustic signal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition bolts and DU-bearings..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (main lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Platform (wheel free lift)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function drive on ramps..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition colour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition Construction (deformation, cracking).. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Torque moment of screws and dowels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition of the covers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition, Function turntable and sliding plate.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition concrete (cracking)..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Condition electrical cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function (optional) lighting..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test with vehicle..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function test „driving to the end position “..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Function equalisation of the lift..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....

signature of the operator

(Use another form for verification!)

