

Operating manual | Inspection book

JUMBO LIFT 3200 NT HYMAX XX 3200 PH

Serial No.:







ENGLISH

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1 Introduction

Nußbaum products are a result of many years of experience. A high quality standard and superior concept guarantees you reliability, long lifetimes and economical operation. To prevent unnecessary damage and hazards, read this operating manual carefully and always comply with its contents.

- Any other use, or use beyond purpose is considered improper.
- Otto Nußbaum GmbH & Co.KG is not liable for any resulting damage. The operating company alone carries the risk.

Proper use also includes:

- Adherence to all instructions in this operating manual and
- Compliance with inspection and maintenance work and the inspections stipulated.
- The operating manual is to be followed by all personnel working on the system. This is notably with regards to Section 3 "Safety conditions"
- In addition to safety information from the operating manual, comply with rules and regulations at the location of use.
- Proper system Handling

Operating company obligations:

The operating company is obliged to only permit personnel to work on the system who

- Understand the principle regulations about work safety and accident prevention and who have been trained in working with the system.
- Have read the safety section and warning information in this operating manual, have understood it and confirmed learning with a signature.

Hazards in working with the system:

Nußbaum products have been designed and built to state-of-the-art and to recognized safety standards. However, improper use may lead to hazards to life and limb of the user or result in property damage.

The system may only be operated

- For proper intended use
- If it is technically in perfect condition

Organizational measures

- The operating manual is always to be kept ready at the location of use of the system.
- Supplemental to the operating manual, refer to and comply with generally valid legal and other binding regulations for accident prevention and for environmental protection.
- Check occasionally that personnel have an awareness of hazards and safe work in compliance with the operating manual!
- Use personal protective equipment as needed or required by regulations.
- All safety and hazard information on the system is to be kept in a legible condition!
- Replacement parts must meet technical specifications of the manufacturer. This is only guaranteed for original parts.
- Deadlines pre-set or given in the operating manual for repeating tests / inspections must be followed.

Maintenance work, error removal

• Comply with pre-determined setting, maintenance and inspection work and intervals in the operating manual, including details for exchanging parts / part fittings! These activities may only be done by specialists who have participated in a special factory training.

Guarantee and liability

• In principle, our "General sales and supply conditions" apply.

Guarantee and liability claims for personal and property damage are excluded if due to one or more of the following causes:

- Improper use of the system.
- Improper assembly, commissioning, operation and maintenance of the system.
- Operating the system with defective safety devices or improperly attached or non-functional safety and protection devices.
- Non-compliance with information in the operating manual in terms of transport, storage, assembly, commissioning, operation, maintenance and fitting of the system.
- Independent construction changes to the system.
- Independent changes to the system (e.g. drive ratios: power, rotation speed, etc.)
- Improperly done repairs.

• Catastrophic cases due to foreign influences or force majeure.

2 General information

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

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

2.1 Set up and test the system.

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

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

2.2 Hazard information

To become aware of the hazardous points and important information, the following three symbols are used with the descriptive meaning. Pay particular attention to text positions that are labeled by these symbols.

- Note! Labels information about a key function or points to an important remark!
- Caution! identifies a warning of possible system damage or other operating company property damage if the highlighted process is not done properly!



Danger ! identifies a danger to life and limb, if the highlighted process is not done properly there is a mortal danger!

3 Safety regulations

When working with systems comply with legal accident prevention regulations according to BGG 945, inspection of lifts; BGR 500 and operation of systems; VBG 14.

Particular attention is drawn to compliance with the following regulations:

- When operating the system, follow safety regulations and operating instructions in the operating manual.
- The total weight of the accepted load may not exceed 3,200 kg,
- Only personnel aged 18 or over may operate systems independently, they must be trained in system operation and have their work verified by the company. They must be explicitly tasked with operating the system (excerpt from BGR 500), see transfer protocol.
- During lifting or lowering, the work area of the system should be clear or people.
- It is prohibited from moving people with the lift.
- It is prohibited to climb onto the system.
- The lift must be completely lowered before the vehicle is driven on, and it may only be done in the intended direction.
- For vehicles with low floor clearance or custom equipment, check before driving, whether it could be damaged.
- The set up of standard lifts is not permitted in fire and explosion endangered work shops.
- Caution when leaving car engines running in enclosed spaces: danger of poisoning.
- When removing heavy vehicle parts (e.g. motors) the centre of mass of the vehicle changes. In this case secure the vehicle against falling using suitable means.
- Initial access into the lift may only be done after the main switch is off and locked.
- Secure the lift against unauthorized use by switching off the main switch and by using a padlock.
- Always keep the lift and work space clean and dry.

3.1 Safety inspection

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

- before first commissioning after setting up the lift system use the "single safety inspection" form
- After first commissioning, check regularly at least once per year. Use the "regular safety inspection" form
- 3. After changes to the lift system construction Use the "extraordinary safety inspection" form
- Single and regular safety inspections must be done by a specialist. It is recommended to do maintenance at the same time.
- After a change in construction (for example changing the load carrying capacity or changing the lifting height) and after significant maintenance on load carrying parts (e.g. welding work), inspection by a technical expert is required (extraordinary safety inspection)

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

4 Assembly and commissioning

4.1 Set up guidelines

- Lift set up is done by trained manufacturer personnel or a contract partner. If the operating company has appropriately trained assemblers, the system can also be set up by them. Set up is to be done according to the assembly instructions.
- A standard system may not be set up in explosion endangered spaces or wash halls.
- Before setting up, verify that there is a sufficient foundation or make it according to the guidelines in the foundation plan. The set up location must be level and even. Foundations in open air and spaces where winter storms or frost are to be expected, must have a foundation to frost depth. The operating company is solely responsible for the set up location.
- Provide an on-site electrical connection of 3 ~/N + PE, 400 V, 50 Hz, fuses with 16 A, slow. The connection point is on the operating unit.

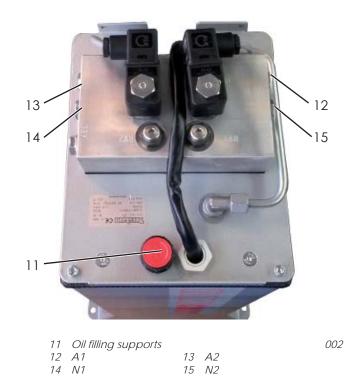
- To protect the electrical cable all cable conduits are to be fitted with cable sleeves or flexible plastic pipes.
- After successful lift installation and before first commissioning, the operating company must have the lift grounding conductors inspected on-site according to IEC regulation (60364-6-61). An insulation resistance test is also recommended.

4.2 Setting up the lift

Before setting up the lift, ensure that everything possible is done to prevent accidents due to careless assembly. This includes, above all, the use of safe auxiliary means (e.g. cranes, forklifts and a sufficient number of people), diverse supports and a sufficient barrier to prevent unauthorized access.

- Carefully remove the lift from the wooden crate and check for damage.
- Position the lift according to the data sheet at the desired set up location.
- Set up the unit, connect power supply.
- The set up location of the operating unit can be selected from two variants. Either in the drive-in direction at the front right or left.

• Fill with hydraulic oil, the manufacturer recommends a high value hydraulic oil with a viscosity of 32 cst. The required oil volume is approx. 14 litres. After filling, the oil must be between the marks on the oil dipstick or approx. 2 cm below the oil filling supports (11).



- Move the lifting upwards to approx. 1,500 mm
- Check the alignment of the base plates again and anchor the lift. Holes for floor anchoring are to be placed through the holes in the base plates.

Clean the bore holes by blowing them out with air. Insert safety anchors into the holes.

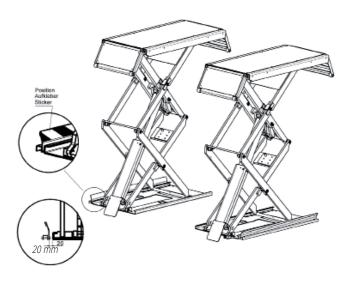
The manufacturer recommends using approved safety anchors and to follow anchor manufacturer's instructions.

Before anchoring the lift, check whether the concrete is of quality C20/25 up to the finishing level of the completed floor. In this case, take the anchor length from the anchor manufacturer's data sheet. If there is a floor covering (tiles, screed) on the weight bearing concrete, the thickness of this covering must be determined.

- Anchor the unit to the floor.
- Align the lift

To prevent hollow spaces, correct any unevenness in the floor by putting shims under the base frame (e.g thin metal strips). Use suitable supports to ensure continuous contact between the floor and base frame.

- Tighten safety anchors with torques recommended by the manufacturer.
- Each anchor must be tightened to the required torque. Safe operation of the lift is not guaranteed with a lower torque. Follow the instructions of the anchor manufacturer.
- Move the lift upwards and downwards several times, then check the anchors with the torque wrench and tighten if required. Check the hydraulic lines for leak-tightness.
- Balance the lift again if required.
- Mount all hose covers.
- Anchor the foot bumpers included beside the lift on the floor. For this, lower the lift to the lowest position. Position the foot bumpers and permanently anchor them Distance between the drive in rails and the foot bumpers approx. 20 mm (foot bumpers may not touch the drive in rails.



Position of the foot bumpers

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4.3 Fill and vent the hydraulic systems

• The lift is factory pre-installed; meaning the hoses and pipe connections are properly assigned.

Finally, check the power connection, check for correct hydraulic oil in the proper volume and leak-tightness of the connection when setting up the lift.

If the hose connections are still open, e.g. for the purposes of hose extension, then air may be entrapped resulting in start up problems or challenges with smooth running.

Check and ensure proper allocation of hose connections.

This procedure must always be completely carried out. This means, first fill and then vent.

Correct method of filling and balancing (lift with HyperFlow system):

- Close the emergency discharge screws "N1" (14) and "N2" (15).
- Push the ↑ "Lift" button to move the lift upwards without a load to the maximum height.
- Continue holding the ↑ "Lift" button. This starts the "Overflow procedure". Oil flows from the hydraulic pump through the command and downstream cylinders and back into the tank.
- After releasing the ↑ "Lift" button, the lift lowers a few millimetres and closes the overflow openings.
- The system is now vented and smooth operation can happen.
- The lift now has its normal operating function.

4.4 Commissioning

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

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

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

4.5 Changing the assembly location

To change the assembly location the pre-conditions must be met according to the assembly guidelines. The location change is to be done according to the following sequence.

- Move the lifting stage upwards to approx. 1,000 mm
- Loosen and remove all hose covers.
- Loosen base plate anchors.
- Lower the lift to the lowest position.
- Disconnect power.
- If necessary, disconnect the hydraulic lines on the operating unit only, and seal them off with blind stoppers.

- If necessary, suction off the hydraulic oil.
- Transport the lift with the unit to the new set up location.
- Assemble the lift according to the procedure during assembly and anchoring before first commissioning.



Use new anchors. The old anchors are no longer fit for purpose!

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Before re-commissioning, a safety inspection must be done by a specialist (use the regular safety inspection form)

4.6 Selecting the anchors

Anchor type	without floor cove- ring (screed/tiles)	with floor covering (screed/tiles)
Heavy duty an- chor	BM 10-15/70/40	
Liebig/Strongtie	FH 15/50 B	Anchor length de-
Fischer	HSL-3-G M10/40	pends on the floor covering
Hilti		covening
Injection anchor		
ΜΚΤ	VMZ-A 75 M12- 25/145	
Hilti	HIT-HY 200 with HIT- Z M12	
Fischer	Highbond FHB II-A S	
	M12x75/25	

Similar value anchors and other known brands of anchor manufacturers can be used when considering the conditions.

4.7 Assembly

 \int_{1}^{0} Follow the instructions enclosed in the anchor packaging.

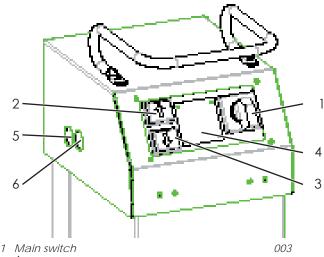


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5 Operating manual

When handling the system, it must absolutely comply with safety regulations. Carefully read the safety regulations in Section 3 before first operation!

5.1 Operating element



- 2 **†** "Lift" button
- 3 ↓ "Lower" button
- 4 Model plate
- 5 Access to the balance screws with locking nuts
- 6 Access to the emergency discharge screws with locking Nut

5.2 Lifting the vehicle

- Drive the vehicle over the drive rails lengthwise and cross-wise in the centre.
- When driving onto the lift, position the ramps so that the rollers (7) of the ramps (9) are on the ground.

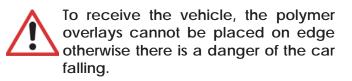


⁸ Supports

9 Ramps

Otherwise the supports (8) and ramps (9) can be damaged.

- Secure the vehicle against rolling. Apply the handbrake, put into gear.
- Position polymer overlays below the receiving points approved by the vehicle manufacturer.
- If required, use the ramps for safe acceptance of the vehicle. If the wheel base is too short, fold the ramps underneath.



• Inspect the hazardous area.

No person or object may stand in the working area of the lift, or on the lift.

• Switch on controls. Turn the main switch (1) to position "1" (see figure 003).

- Lift the vehicle. Push the ↑ "Lift" (2) button.
- If the wheels are not blocked, interrupt the lifting process and check for proper seating of the polymer overlays.
- Raise the vehicle to the desired working height.
 Push the ↑ "Lift" (2) button.

5.3 Lowering the vehicle

• Inspect the hazardous area.

No person or object may stand in the working area of the lift, or on the lift.

- The vehicles cannot be lowered into the lowest position without wheels. Otherwise the lift cannot raise the load using its own force. The vehicle could be damaged.
- Lower the vehicle to the desired working height or completely lower it. Push the ↓ "Lower" (3) button (see figure 003).
- The entire lowering process must be observed.
- If the lift is in the detectable lowest position, remove the polymer overlays and drive the vehicle from the lift.

5.4 Balance the drive rails

See "Section 4.3 filling and venting the hydraulic system".

6 Maintenance and care of the system

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

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

Our platforms fulfil or exceed all safety standards of the countries we supply to. For example, European regulations require a service by qualified experts every 12 months of work of the platform. To guarantee the largest possible availability and functional capacity of the lift system, ensure the list of any cleaning, care and maintenance work is done.

The lift system is to be serviced at regular intervals according to the following plan. For intensive operation and higher degree of contamination shorten the service interval.

The complete function of the lift system is to be observed during daily use. Customer service must be informed of any malfunctions or leaks. To simplify maintenance work, follow instructions

on the maintenance sticker that is found somewhere on the unit, depending on the lift design.

6.1 System maintenance plan



Before beginning service, disconnect from power. The system is to be secured against unintentional lowering and unauthorized access.

6.1.1 As required or visible damage

• Check the polymer overlays and replace if required.

6.1.2 Maintenance 1 x per year

- Check condition of the model plate, load capacity and sticker. Exchange them if damaged or illegible.
- Free the piston rod of the lifting cylinder of sand and dirt.
- Check the wiper for damage.
- Moving parts such as joint bolts and DU bearings, sliding pieces, sliding surfaces and rollers are to be cleaned and checked for wear, exchange if required.
- Lubricate all lubrication nipples with an acid-free multi-purpose grease. Do not over-lubricate.
- All weld seams must have a visual inspection. Stop the system and contact the manufacturer if there are cracks or breaks in weld seams.

• Check the powder coating and improve if required.

Damage by external influences is to be treated immediately after detection. If these points are not treated, infiltration of deposits of all kinds can cause wide-ranging and permanent damage.

These points are to be lightly sanded (120 grit), cleaned and degreased. Afterwards, rework with a suitable touch up paint (note the RAL No.).

- Check the condition and function of the driving ramp.
- Check the condition of the cement floor.
- Check the torque of the fastening anchor. Also see the assembly protocol.
- The condition and function of the load suspension means are to be checked.
- Check the torque of the fastening screws.

Torque (Nm) for shaft screws

Fastening class 8.8

C	•				
	0,08*	0,12**	0,14***		
M8	17,9	23,1	25,3		
M10	36	46	51		
M12	61	80	87		
M16	147	194	214		
M20	297	391	430		
M24	512	675	743		
Fastening class 10.9					
	0,08*	0,12**	0,14***		
M8	26,2	34	37,2		
M10	53	68	75		

	*	didi	na fria	tion 0	011000	lubrico	+00
M24		730		960		1060	
M20		423		557		615	
M16		216		285		314	
M12		90		117		128	
MIU		53		68		/5	

 * sliding friction 0,8 MoS2 lubricated
 ** sliding friction 0,12 lightly oiled
 *** sliding friction 0,14 Screw secured with microencapsulated plastic

• Check electrical components for function. Replace any damaged components.

Optional CE stop switch and signalling unit

Push button, main switch

Electrical cable

During assembly and maintenance always check the condition of electrical lines. All cables and lines must be secured so they cannot be crushed, kinked or contact any moving assembly.

• Check hydraulic oil.

The oil is used if it has a milky colour or if the hydraulic oil smells unpleasantly.

• Check the hydraulic lines and screws for leaks.

Hose lines are to be replaced:

- for damage to the outer coating up to the insert (chafe marks, cuts, cracks)
- for brittleness of the outer coating (crack formation), deformation of the natural shape in the depressurized and in pressurized states.
- if leaking
- for damage or deformation of the mounting fixture
- if the mounting fixture has meandered
- if the lifetime has been exceeded

Repair of the hose line using the implemented hose / mounting fixture is not permitted!

Extending the replacement intervals given in the guideline is possible if the inspection for safework condition is done in adjusted, shortened time frames, if required and by competent personnel.

If ther is an extension of the replacement interval, no situation may occur which could result in injury of employees or other personnel.

- Check the condition and function of all available safety devices.
- Check the foot bumper for condition and function. Exchange if damaged

6.1.3 Maintenance every 2 years

• According to manufacturer details, the hydraulic oil should be changed every two years in normal operations. Various environmental influences e.g. location, temperature swings, intensive operation etc, can have an influence on the quality of the hydraulic oil. For this reason, the oil must be checked during annual safety inspections and maintenance.

The oil is used if it has a milky colour or if the hydraulic oil smells unpleasantly.

To change oil, lower the lift is to its lowest position then suction the oil out of the oil container and replace the contents. The manufacturer recommends a high-quality clean hydraulic oil. The required oil volume and type is to be taken from the technical data. After filling, the hydraulic oil must be between the upper and lower marking on the oil dipstick, or approx. 2 cm below the oil filling opening.

Dispose of the old oil according to regulations to the intended location (district offices, environmental protection office or commercial regulatory office has the obligation to disclose about disposal points).

6.1.4 Maintenance every 6 years

• Exchange the protective and hydraulic hoses.

Excerpt from BGR 237

Specifications for the hydraulic hose lines:

• Normal specification:

6 years including 2 years storage time.

• Increased demands e.g. due to increased usage times, e.g. multi-shift operation, short cycle times and pressure impulses and large external and internal (due to medium) influences which significantly reduce the lifetime of the hose lines:

2 year operation duration

6.2 Cleaning and care of the system

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

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

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

This includes above all:

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

As a rule: The longer road dust, salt, and other aggressive deposits remain caked onto the system, the more damage they will have.

The frequency of system cleaning depends, among other things on the frequency of use, of system handling, of workshop cleanliness, and the location of the system.

Furthermore, the degree of contamination depends on the time of year, the weather conditions and workshop ventilation.

Under adverse circumstances, weekly system cleaning might be required, however a monthly cleaning may be sufficient.

• For cleaning, do not use high pressure washers (e.g. steam cleaners)

Do not use any aggressive and abrasive materials. Instead, use mild cleaners, e.g. a commercially available detergent and lukewarm water.

• Carefully remove all contamination with a sponge, or if required with a brush.

Make sure that there is no residue of the cleaner on the system. These could lead to an increased danger of slipping when moisture is present. So rinse thoroughly with clean water until all residue has been removed.

- Be sure that electric parts of the system, cables, hoses, etc. do not come into contact with water.
- Dry the system with a cloth and spray it with a spray wax or oil.
- To encourage/accelerate the airing and/or drying of foundation pits and lift parts, whenever the load receiving fixtures are not in use for a longer period of time, including overnight, lift them out of the foundation pit.

7 Behavior in cases of error

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

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



Independent repair work on safety devices of the lift and checking the electrical system may only be done by specialists.

Problem: Motor does not start						
Possible causes:	Remedy:					
No power supply	Check the power supply					
The main switch (1) is not switched on, or is defective Check the main switch (1).						
Defective fuse	Have fuses checked					
The ↑ "Lift" (2) button is defective	Inform customer service					
Motor has overheated	Let the water cool. Cooling time depends on the ambient temperature.					
Motor defective	Inform customer service					

Problem: Motor starts, load is not lifted				
Possible causes:	Remedy:			
Load is too heavy	Unload the lift			
Hydraulic oil filling level is too low	Refill hydraulic oil			
Emergency discharge fixture is not closed	Check emergency discharge fixture			
Pressure line leaking	Inform customer service			
Hydraulic pump defective	Inform customer service			
The coupling between the motor and pump is defective	Inform customer service			
Defective cylinder	Inform customer service			
Pressure relief valve is defective	Inform customer service			

Problem: The lift cannot be lowered				
Possible causes:	Remedy:			
Lifting table is sitting on an obstacle	See 7.1 Moving onto an obstacle			
Hydraulic valve defective	Inform customer service			
The † "Lower" (3) button is defective	Inform customer service			

7.1 Moving onto an obstacle

If the system moves onto an obstacle during lowering, then it remains in position due to the mechanical resistance. In this case, move the lift upwards by pushing the **†** "Lift" (2) button on the operating panel until the obstacle can be removed. Afterwards the lift is in a normal work condition and can continue to be operated as described in the operating manual.

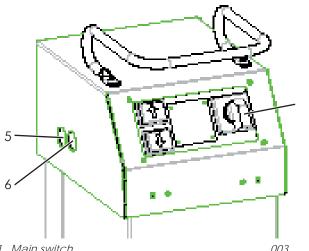
Emergency discharge during blackout 7.2

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

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

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

Reason which make an emergency discharge necessary are for example, electrical blackout, for errors in the lowering valves, etc.



- 1 Main switch
- 5 Access to the balance screws with locking nuts

- Turn off the main switch (1) and secure against unauthorized switch on. Disconnect power.
- Inspect the hazardous area. No person or object may stand in the working area of the lift, or on the lift.
- Remove the covers for the emergency discharge screw accesses (6) on both sides.
- Loosen the locking screws (SW17) of the emergency discharge screws "N1" (14) and "N2" (15).
- Initially, using an Allen key (SW5), slowly unscrew the emergency screw N1 by 1/4 turn.
- Caution: During this process a drive on rail of the lift will lower somewhat (approx. 5 cm). Lowering can be interrupted by closing the emergency discharge screw.
- Subsequently unscrew the opposite emergency discharge screw slowly a little.
- The lowering process starts immediately. The speed can be influenced by the degree the emergency discharge screw is opened.
- Lower the lift to the lowest position.
- The entire lowering process must be continuously observed.
- Afterwards, remove the polymer overlays and drive the vehicle from the lift.
- After finishing the emergency discharge, close and lock the emergency discharge screws N1 and N2 again.
- If required, defective parts must first be replaced before the lift is put into operation again. For this, inform customer service.

Turn the main switch off and secure against restart. Shutdown the lift until all defective parts have been exchanged.

After exchange of defective parts a "Vent of the hydraulic system" must be done.

⁶ Access to the emergency discharge screws with locking nut

8 Technical information

8.1 Technical data

Weight	920 kg			
System load cape	3,200 kg			
Load distribution	Max. 3:2 or 2:3 in or t the drive- in direction of mass of the vehicle)			
Effective lifting ra of the system	nge	Approx. 2,000 mm		
System lift time	Approx. 3	5 s with 3,200 kg load		
System lowering time Approx. 30 s with 3,200 kg lo				
Operating pressu	re	Approx. 270 bars		
Operating voltag	3 x 400 Volt , 50 Hz			
Motor capacity		3 kW		
Motor speed		3000 rpm		
Oil pump convey	ing power	3 cm³		
Pressure relief val	ve	Approx. 300 bars		
Filling volume oil o	Approx. 14 litres			
Noise level	≤ 70 dB(A)			
on-site connectic	n	3~/N+PE, 400 V, 50 Hz with 16 A fuses, slow, according to VDE regulations		

8.2 Safety devices

• Over-pressure valve

Hydraulic system fuse against over-pressure.

Check valve

Secure the vehicle against unauthorized lowering of the load suspension means

• Two independent cylinder systems (each with a command, follow system)

Secure against unauthorized lowering of the lift.

• Main switch with locking device

Fuse to prevent unauthorized use.

Dead man controls

When the buttons ↑ "Lift" (2) or ↓ "Lower" (3) are released, the corresponding movement stops

• Foot bumper on the lift (optional)

Guard against crushing in the foot area.

• CE stop (optional)

Guard against crushing in the foot area.

9 System master sheet

9.1 Manufacturer

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

9.2 Purpose

The JUMBO LIFT 3200 NT - HYMAX 3200 PH lift is a lift for cars up to a total weight of 3,200 kg in normal work shop operations and a maximum load distribution of 3:2 or 2:3 in the drive-in direction or against the drive-in direction.

Additionally, there is a distinction between cars operated with front or rear drive.

Set up of the standard lift in explosion endangered workshops or humid work shops (e.g. outside and washing halls) is prohibited. After construction and significant maintenance changes on load carrying parts the lift must be inspected afterwards by a specialist who approves the changes.

Operation of the lift is done by an operating unit that is located immediately next to the lift.

9.3 Changes to the design / construction

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

Name, address of technical expert

Location, date

Technical expert signature

9.4 Changing the assembly location

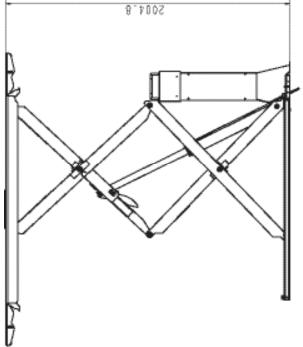
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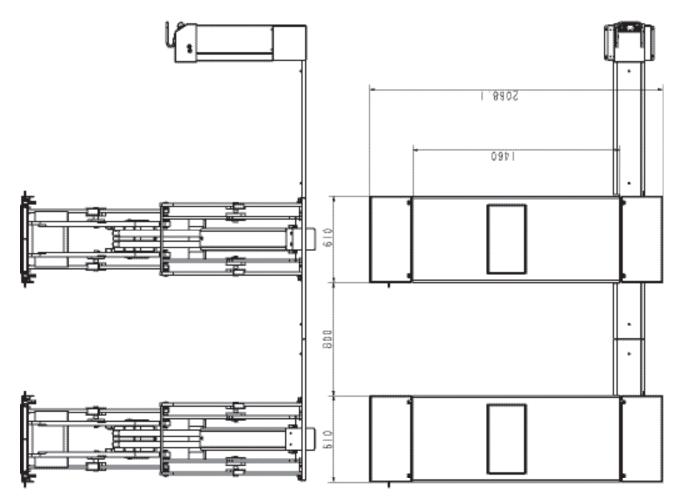
Inspections by a technical expert are required before recommissioning (date, type of change, specialist signature).

Name, address of technical expert Location, date Technical expert signature

10 Data sheet

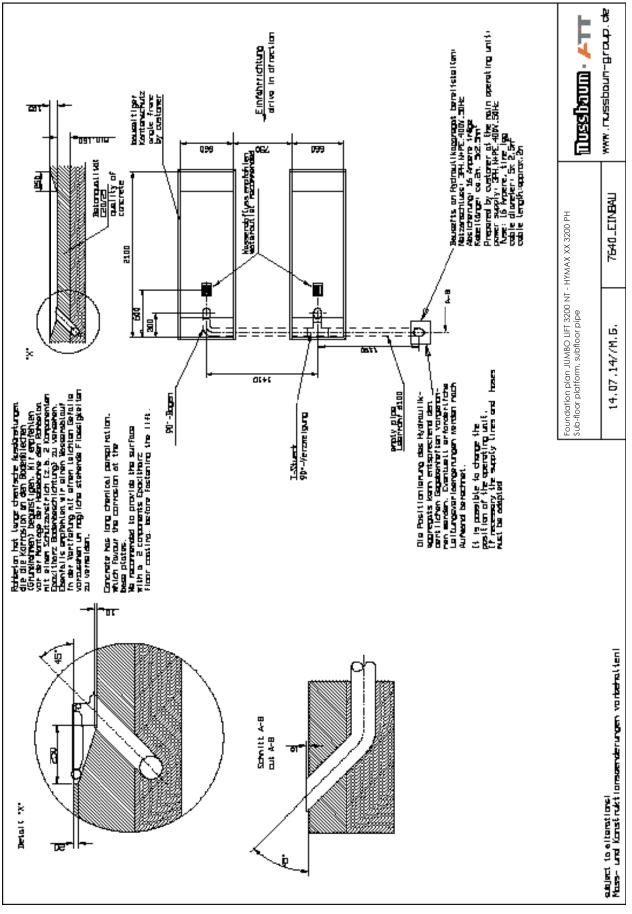




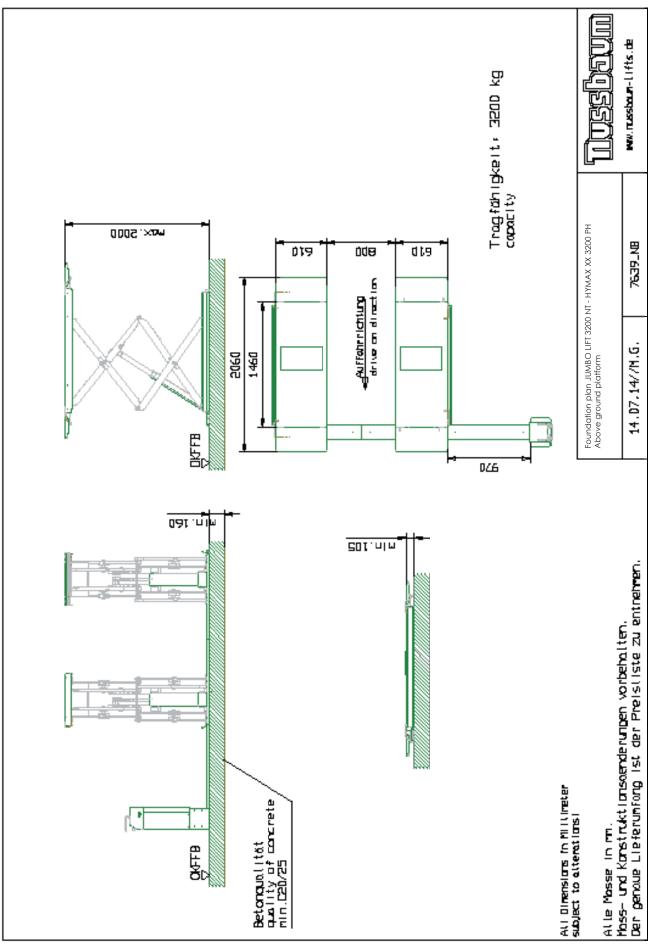


11 Foundation plans

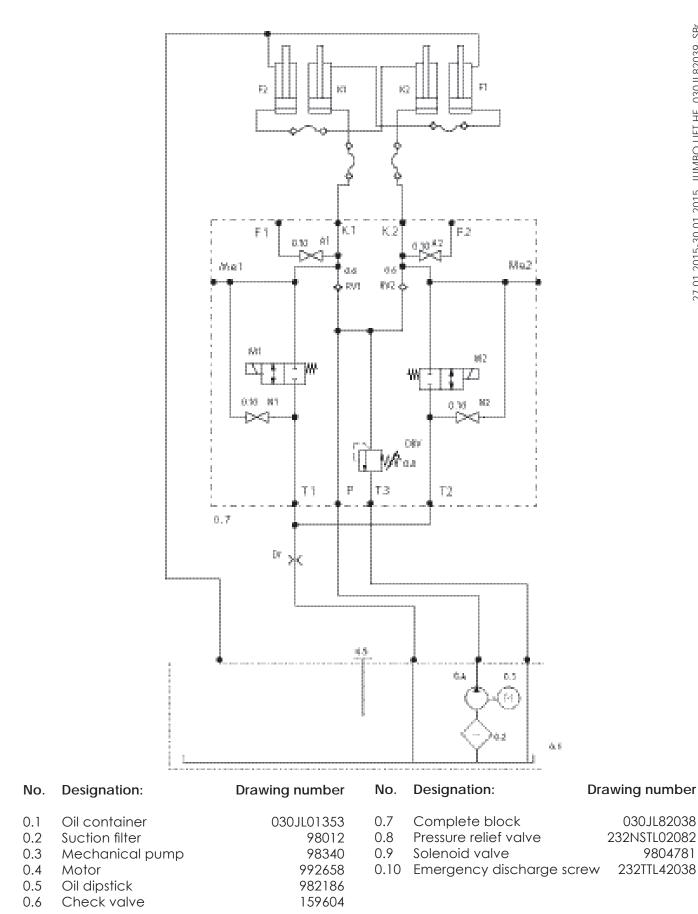
11.1 Sub-floor



11.2 Above ground

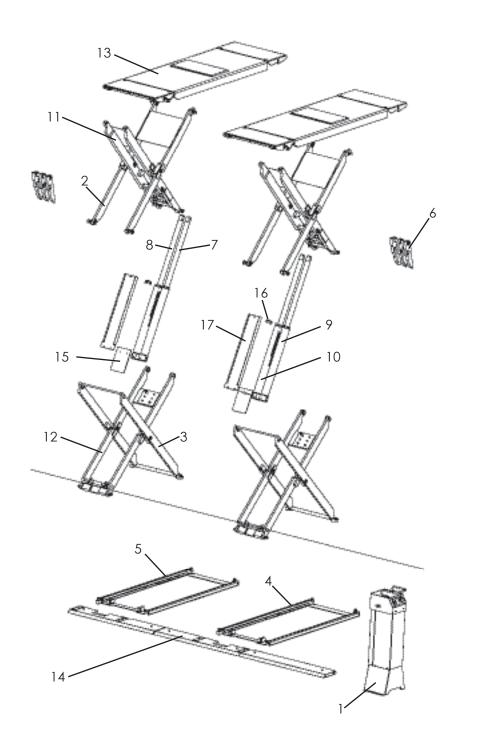


hydraulic plan 12



13 Replacement parts list

10.xx Platform

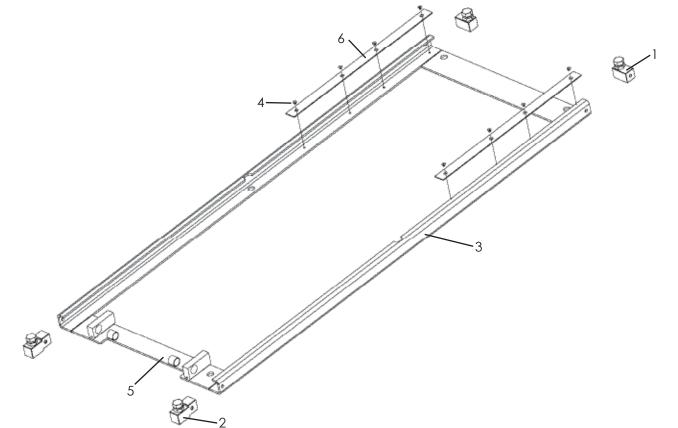


035jl00100_3 17.03.2015

10.1	030JL21360	UNIT	10.6	035JL06110	DOWNSTREAMCYLINDERLEVER, COMPLETE	
10.2	035JL06031	EXTERIOR SCISSOR UPPER, COMPLETE	10.7	040JL02704 ROD, DOWNSTREA	 AUXILIARY ASSEMBLY PISTON M SIDE	
10.3	035JL06011	EXTERNAL SCISSOR LOWER, COMPLETE	-	- ,	T YOU SEND DEFECTIVE	
10.4	035JL05210	FLOOR PANEL LEFT, COMPLETE	-	SPECTED AND SENT BACK!		
10.5	035JL05201	FLOOR PANEL RIGHT, COMPLETE				

10.8 040JL02604	auxiliary group piston rod, command side	10.11	035JL06221	INTERIOR SCISSORS TOP
	AT YOU SEND DEFECTIVE	10.12	035JL06101	SCISSORS LOWER
CYLINDERS TO US FOR		10.13	035JL08401	RAIL 1460 MM LONG, COMPLETE
10.9 040JL02702	AUXILIARY GROUP CYLINDER PIPE, DOWNSTREAM SIDE	10.14	030JL09530	HOSE COVER, COMPLETE
		10.15	040JL02629	RUBBER APRON
WE RECOMMEND THAT YOU SEND DEFECTIVE CYLINDERS TO US FOR REPAIR. CYLINDERS WILL BE INSPECTED AND SENT BACK!		10.16	040JL02631	CLAMP PANEL
10.10 040JL02602	AUXILIARY GROUP CYLINDER	10.17	040JL02627	HOSE COVER FOR CYLINDER
10.10 040JL02802	PIPE, COMMAND SIDE			
CYLINDERS TO US FOR	at you send defective Repair. Spected and sent back!			

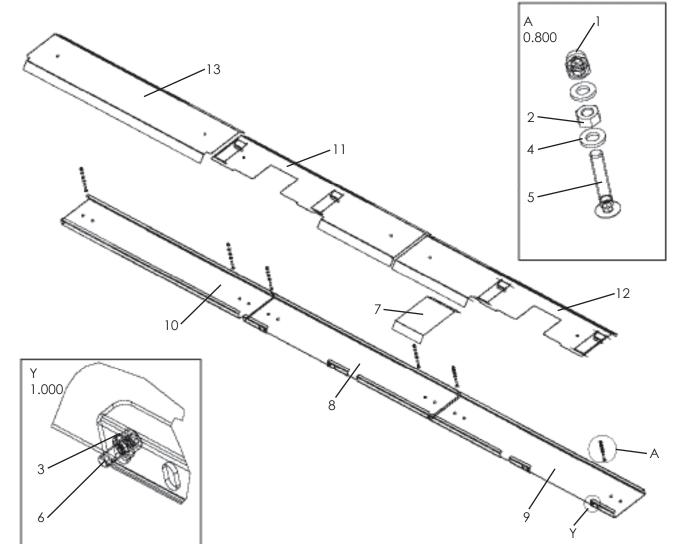
20.xx Floor panel, right



035jl05201_2 17.03.2015

20.1	040JL05020	SPACER FOOT 1 COMPLETE	20.4	97991-M5X6	Countersunk screw
20.2	040JL05010	SPACER FOOT 2 COMPLETE	20.5	9PAP202320P10	DU JACK
20.3	035JL05203	FLOOR PANEL, WELD PART	20.6	030JL05008	RUNNING PANEL

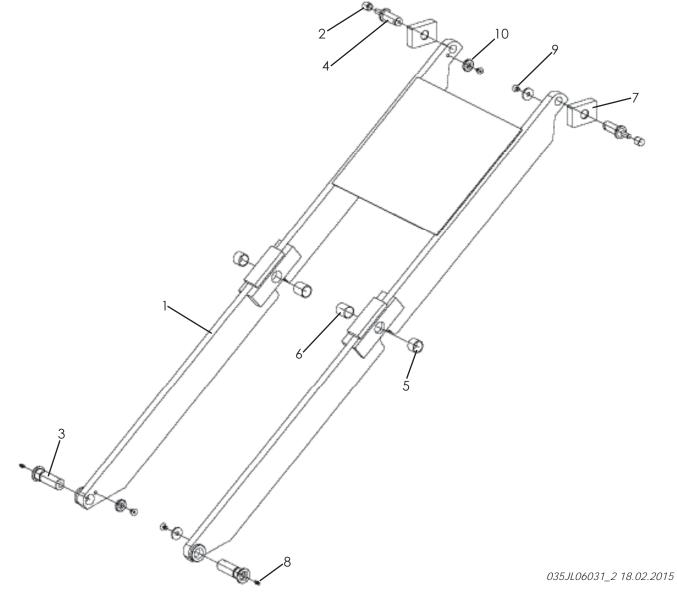
30.xx Hose cover



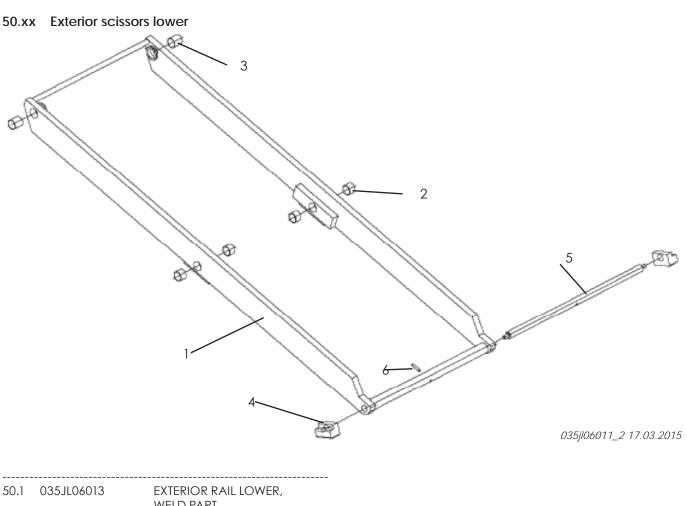
030jl09530_2 17.03.2015

30.1	91587-M6	ACORN NUT	30.7	030JL09552	BALANCE COVER
30.2	9934-M6	HEXAGONAL NUT	30.8	030JL09531	CABLE CONDUIT
30.3	9125_1-A5_3	WASHER	30.9	030JL09533	CABLE CONDUIT
30.4	9125_1-A6_4	WASHER	30.10	030JL09546	CABLE CONDUIT
30.5	97991-M6X35	COUNTERSUNK SCREW	30.11	030JL09541	CONDUIT COVER
30.6	9912-M5X12	Cylinder Screw	30.12	030JL09542	CONDUIT COVER
			30.13	030JL09548	CONDUIT COVER

40.xx Exterior scissors top

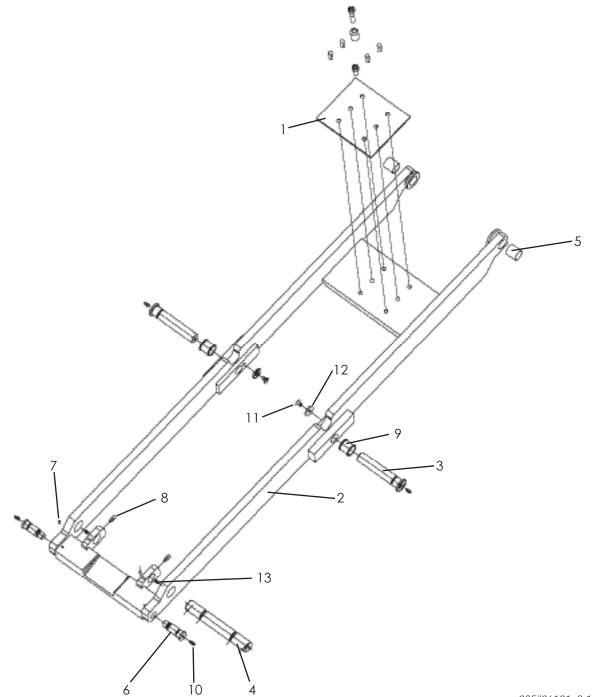


40.1	035JL06033	EXTERIOR SCISSORS TOP, WELD PART
40.2	030JL06166	START UP ROLLER
40.3	030JL26021	EXTERIOR BOLTS SCISSORS
40.4	030JL26165	EXTERIOR BOLTS SCISSORS
40.5	9PAP252820P10	DU JACK
40.6	9PAP252830P10	DU JACK
40.7	030JL26168	SLIDING PIECE TOP
40.8	971412-AM6	BALL LUBRICATION NIPPLE
40.9	97991-M8X12	COUNTERSUNK SCREW
40.10	030JL22023	LOCKING WASHER



50.1	0351106013	WELD PART
50.2	9PAP252820P10	DU JACK
50.3	9PAP252830P10	DU JACK
50.4	035JL06017	SLIDINGPIECELOWEREXTERIOR
50.5	030JL06112	SLIDING PIECE AXIS
50.6	91481-6X30	FRICTION BOLT

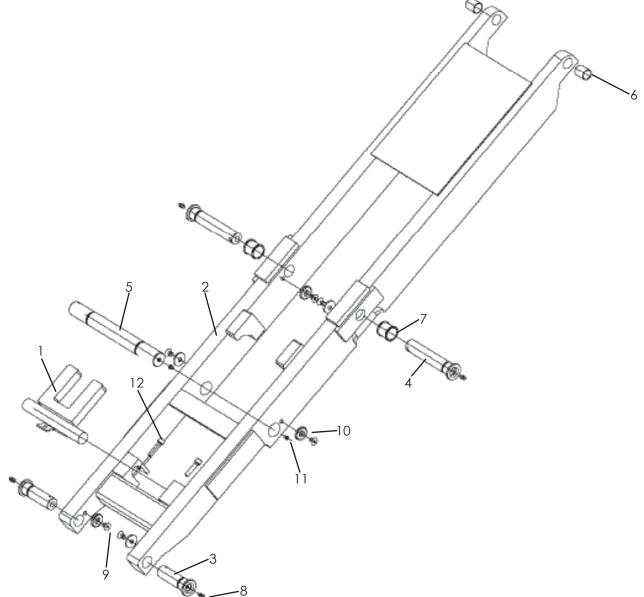
60.xx Scissors lower



035jl06101_2 17.03.2015

60.1	030JL66014	PRESSURE PLATE SET	60.8 030JL66028	SET SCREW
60.2	035JL06103	SCISSORS, WELD PART	60.9 030JL06030	SLEEVE
60.3	030JL26024	EXTERIOR BOLTS SCISSORS	60.10 971412-AM6	BALL LUBRICATION NIPPLE
60.4	030JL62021	Cylinder Bolts Lower	60.11 97991-M8X12	COUNTERSUNK SCREW
60.5	9PAP252830P10	DU JACK	60.12 030JL22023	LOCKING WASHER
60.6	030JL05012	FIXED BEARING BOLTS	60.13 970554	LUBRICATION NIPPLE FUNNEL, STRAIGHT
60.7	9914-M5X12	SET SCREW		31KAIGIII

70.xx Interior scissors top

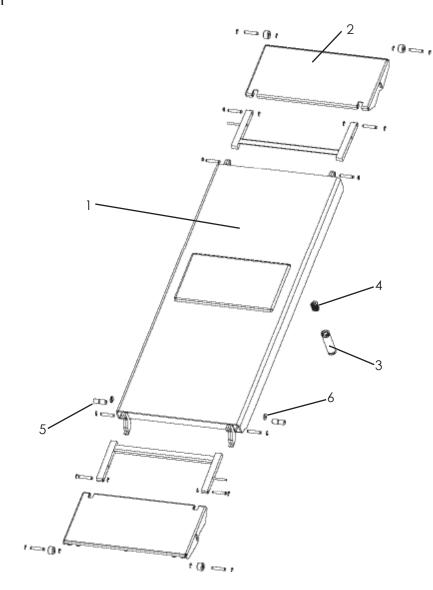


035JL06221_2 30.01.2015

70.1	030JL66093	BLOCKING, WELD PART
70.2	035JL06223	INTERIOR SCISSORS TOP
70.3	030JL26022	EXTERIOR BOLTS SCISSORS
70.4	030JL26025	EXTERIOR BOLTS SCISSORS
70.5	030JL66090	ZE BOLTS
70.6	9PAP202325P10	DU JACK
70.7	030JL06030	SLEEVE

70.8	971412-AM6	BALL LUBRICATION NIPPLE
70.9	97991-M8X12	COUNTERSUNK SCREW
70.10	030JL22023	LOCKING WASHER
70.11	970554	LUBRICATION NIPPLE FUNNEL, STRAIGHT
70.12	9912-M8X35	Cylinder screw

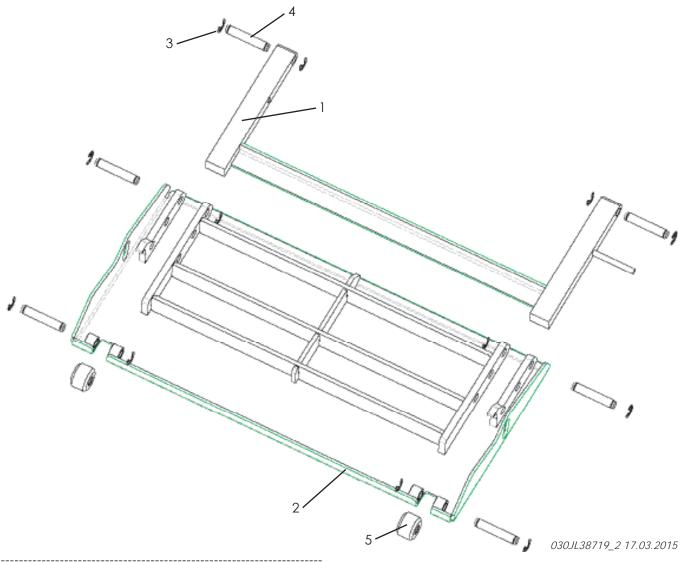
80.xx Rail



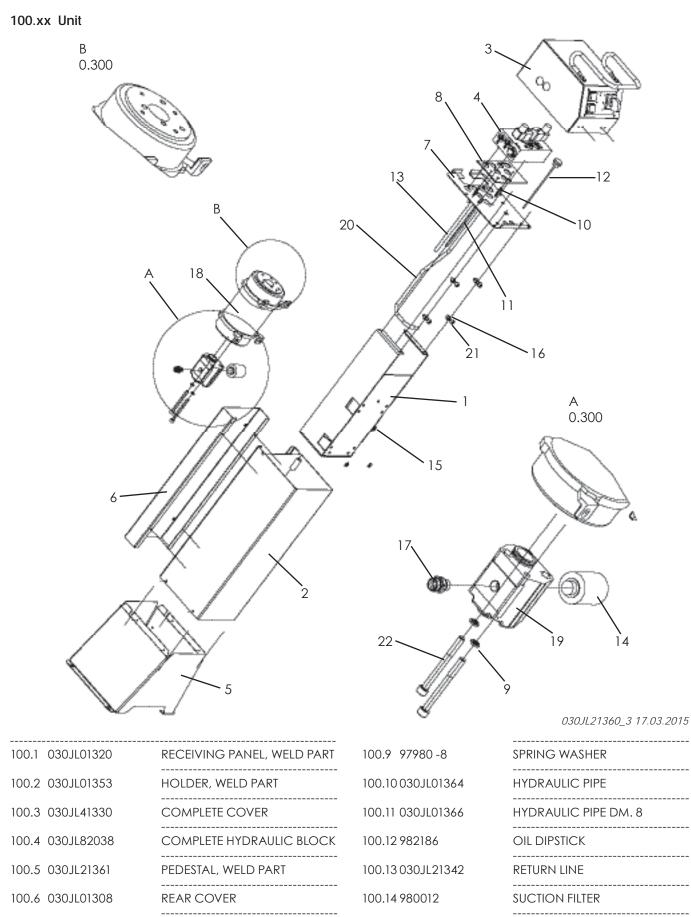
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80.1	035JL08401	RAIL 1460 MM LONG, COMPLETE
80.2	030JL38719	RAMPS 300 MM LONG, COMPLETE
80.3	035JL08403	RAMP, WELD PART
80.4	025SPB06165	SPRING HOLDER
80.5	030JL22023	LOCKING WASHER
80.6	030JL68019	FESTLAGERBOLZEN SCHIENE
80.7	9DFD-357A2ZN	PRESSURE SPRING

90.xx Ramps



90.1	030JL38618	COMPLETE LEVER, WELD PART
90.2	030JL38720	RAMP, WELD PART 300 MM LONG
90.3	96799 -10	LOCKING WASHER
90.4	025SPB68627	BOLTS RD 12X66
90.5	025SPB68628	ROLLER



100.8 030JL01362

COVER PLATE

HEXAGONAL NUT

WASHER

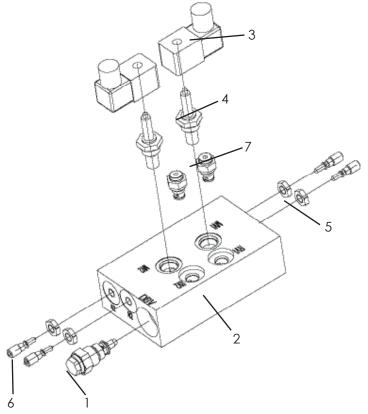
100.159125_1-A8_4

100.16 9934-M8

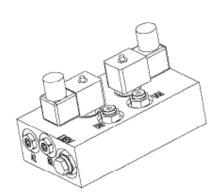


100.17 93901-L10A-M	SUPPORTS	100.20030JL21344	SUPPLY
100.18 992658	UNDER OIL MOTOR	100.21 9912-M8X25	Cylinder Screw
100.19 980340	MECHANICAL PUMP	100.229912-M8X85	Cylinder screw

110.xx Hydraulic block



110.1	232NSTL02082	PRESSURE RELIEF VALVE
110.2	030JL82039	HYDRAULIC BLOCK
110.3	980630	MAGNETIC COIL
110.4	980478	SOLENOID VALVE WITHOUT SIEVE
110.5	9MU439M10ZN	HEXAGONAL NUT
110.6	232TTL42038	EMERGENCY DISCHARGE
110.7	980480	CHECK VALVE



030JL82038 17.03.2015

120.xx Hydraulic hose sets

120.1 035JL01490	Hose Set, standard V1 with Overflows for above Floor USE (Hyperflow)	 120.17 035JL01492	HOSE SET STANDARD WITH OVERFLOWS FOR BMW (HYPERFLOW)
120.2 983652	HOSE, 2SC, DN6X2100, DKOL-DKOL	120.18 983658	HOSE, 2SC, DN06X6350, DKOL, DKOL
120.3 983655	HOSE, 2SC, DN06X3400, DKOL, DKOL	120.19 982132	HOSE, 2SC, DN06X7700, DKOL, DKOL
20.4 983662	HOSE, 2SC, DN06X2100, CEL, CELM12X1,5	120.20983662	 HOSE, 2SC, DN06X2100, CEL, CELM12X1,5
20.5 983662.1	HOSE, 2SC, DN06X2100, CEL, CELM12X1,5	120.21 983662.1	 HOSE, 2SC, DN06X2100, CEL, CELM12X1,5
20.6 983663	HOSE, 2SC, DN06X2650, CEL, DKOL 90°	120.22983659	HOSE, 2SC, DN06X7100, DKOL, DKOL
20.7 983664	HOSE, 2SC, DN06X1180, CEL, DKOL	120.23983660	 HOSE, 2SC, DN06X8500, DKOL, DKOL
120.8 980936	 HOSE, 2SC, DN06X0450, CEL, CEL12X1.5SHAPEB	120.24980936	HOSE, 2SC, DN06X0450, CEL, CEL12X1.5SHAPEB
20.9 035JL01491	Hose Set, standard v2 with Overflows for sub-floor USE (Hyperflow)		
20.10 983652	 Hose, 2sc, dn6x2100, dkol-dkol		
20.11 983655	 HOSE, 2SC, DN06X3400, DKOL, DKOL		
20.12 983662	HOSE, 2SC, DN06X2100, CEL, CELM12X1,5		
20.13 983662.1	 HOSE, 2SC, DN06X2100, CEL, CELM12X1,5		
20.14 983665	 HOSE, 2SC, DN06X2750, DKOL, DKOL		
20.15 983666	HOSE, 2SC, DN06X4150,		

DKOL, DKOL

120.16 980936

HOSE, 2SC, DN06X0450, CEL, CEL12X1.5SHAPEB

14 Set up protocol

 $\prod_{i=1}^{\infty}$ After successful set up, complete this form fully, sign it, make a copy and send to the manufacturer within a week.

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

The system with serial number	was set up on (date)	at
(company name)	in (town, city)	

_____checked for function and safety and put into operation. .

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

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

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

Date	Name, Operating company & company stamp	Operating company signature
Date	Name, Specialist	Specialist signature
Service partner:		
	Stamp	
Only fill out if the system	has a fixed anchor.	
Anchor used *)	Type/ brand	
Minimum anchor depth	*) complied with: mm	
Tightening torque *) cor	nplied with: Nm	
*) See 4.2.1 selecting the ancl	hor	



14.1 Transfer protocol

The system	
with serial number	was set up on (date)
at (company name)	in (town, city)

checked for function and safety and put into operation.

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

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

Date	Name	Signature
Date	Name	Signature
Date	Name, specialist	Signature of specialist
Service partner:		(Stamp)

15 Safety inspection

15.1 Single safety inspection before commissioning

 $\int Copy$, complete and leave in the inspection book

Serial number: _____

Test step	OK	Defective or Missing	Rete	st	Remarks
Model plate					
Operating manual					
Load capacity details on the system					
Main switch function					
Function button "LIFT, LOWER"					
General system condition					
Condition / function of foot bumper (optional)					
Condition/ function ramps / rollers					
Securing the bolts					
Condition of bolts and bearing seating					
Load bearing construction (deformations, crac					
Unit condition					
Cover conditions					
Paint condition					
Condition piston rods and wipers					
Hydraulic system leak-tightness					
Hydraulic oil filling level					
Hydraulic line conditions					
Condition hydraulic screw fittings					
Condition electrical lines					
Condition of weld seams					
Fastening anchor torque					
Fastening screw torque					
Condition of polymer overlays					
Condition of concrete floor (cracks)					
Function CE stop and warning signal (optional)					
Function balance of rails					
Functional test, system with load					
*) Place a checkmark in the relevant, if a retest is required	then c	heck it again!			

Safety inspection done on: _____ Performed by company: ____ Name, address of specialist: Result of inspection: Continued operation questionable, reinspection required Continued operation possible, remove defects by ____ No deficiencies, continue to operate Signature of specialist Operating company signature If requested to take care of deficiencies Deficiency removed on: _

(use a new form for reinspection!)

Operating company signature

Serial number: _____

15.2 Regular safety inspection and maintenance

 $\prod_{i=1}^{\infty}$ Copy, complete and leave in the inspection book

Test step	ЭК	Defective or Missing	Retes	t	Remarks
Model plate					
Operating manual					
Load capacity details on the system					
Main switch function					
Function button "LIFT, LOWER"					
General system condition					
Condition / function of foot bumper (optional)_					
Condition/ function ramps / rollers					
Securing the bolts					
Condition of bolts and bearing seating					
Load bearing construction (deformations, crack					
Unit condition					
Cover conditions					
Paint condition					
Condition piston rods and wipers					
Hydraulic system leak-tightness					
Hydraulic oil filling level					
Hydraulic line conditions					
Condition hydraulic screw fittings					
Condition electrical lines					
Condition of weld seams					
Fastening anchor torque					
Fastening screw torque					
Condition of polymer overlays					
Condition of concrete floor (cracks)					
Function CE stop and warning signal (optional) _					
Function balance of rails					
Functional test, system with load					

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

Safety inspection done on:	
Performed by company:	
Name, address of specialist:	
Result of inspection:	Continued operation questionable, reinspection required Continued operation possible, remove defects by No deficiencies, continue to operate

Signature of specialist

Operating company signature

If requested to take care of deficiencies

Deficiency removed on: _____

Operating company signature

(use a new form	for reinspection!)
-----------------	--------------------

15.3 Exceptional safety inspection

 $\overset{\circ}{=}$ Copy, complete and leave in the inspection book

Test step	ОК	Defective or Missing	Retest	Remarks
Model plate				
Operating manual				
Load capacity details on the system				
Main switch function	_			
Function button "LIFT, LOWER"				
General system condition				
Condition / function of foot bumper (optional)_				
Condition/ function ramps / rollers				
Securing the bolts				
Condition of bolts and bearing seating				
Load bearing construction (deformations, crack				
Unit condition	_			
Cover conditions	_			
Paint condition				
Condition piston rods and wipers				
Hydraulic system leak-tightness				
Hydraulic oil filling level				
Hydraulic line conditions				
Condition hydraulic screw fittings				
Condition electrical lines				
Condition of weld seams				
Fastening anchor torque				
Fastening screw torque				
Condition of polymer overlays				
Condition of concrete floor (cracks)				
Function CE stop and warning signal (optional)				
Function balance of rails				
Functional test, system with load				

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

Safety inspection done on:	
Performed by company:	
Name, address of specialist: _	
Result of inspection:	Continued operation questionable, reinspection required Continued operation possible, remove defects by No deficiencies, continue to operate

Signature of specialist

Operating company signature

Serial number: _____

If requested to take care of deficiencies

Deficiency removed on: _____

Operating company signature

16 Electrical circuit diagram

Object: JUMBO NT System: Customer: Circuit diagram number: JUMBO NT 03/14/001

Grounding according to local regulations

Before commissioning check whether the nominal motor current matches the motor protection relay. Check all terminal points for proper connection and that all contact screws are tight.

Before commissioning, check all wiring and controls for proper function. Do not permit commissioning from the unauthorized side.

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

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

Rights to make changes are retained.

Circuit diagram and switch documents

Circuit diagrams were made to the best of our knowledge.

No warranty for the correctness of provided circuit diagrams and switch documents is given. This is particularly relevant for switches that were completed by us according to third party plans. This was done by us from purchaser provided manufacturer documentation.

Functional test of switch systems

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

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

Safety inspection and safety measures

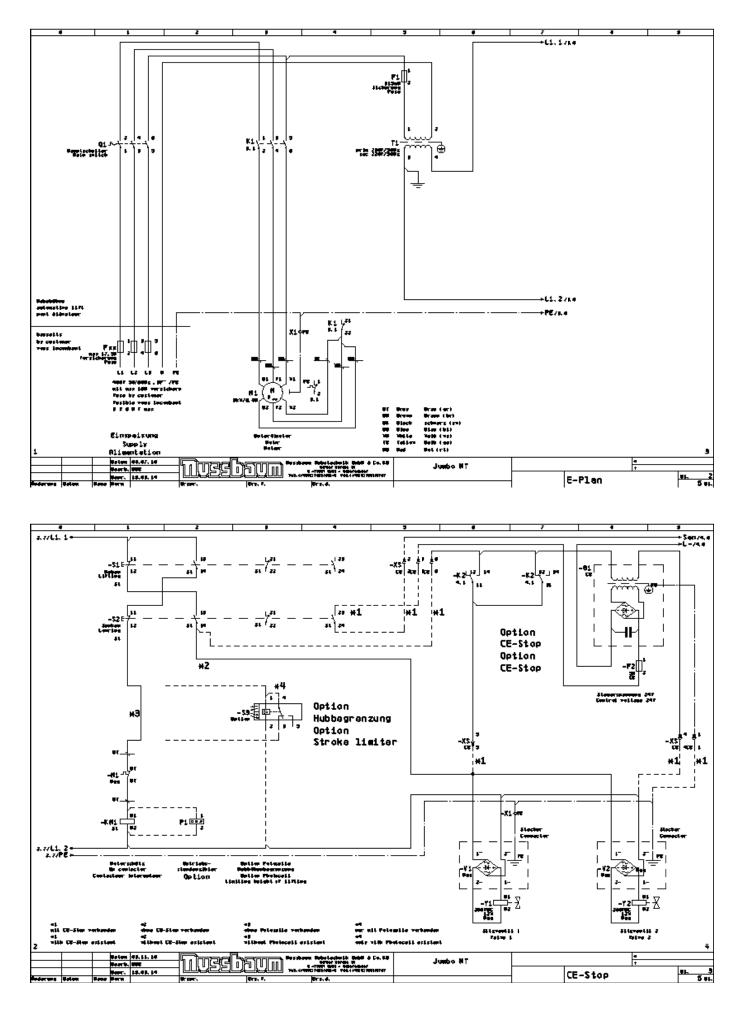
The control cabinet has been produced, set up and inspected according to recognized technology rules according to VDE0100/0113 and accident prevention regulation VBG4 (electrical systems and equipment)

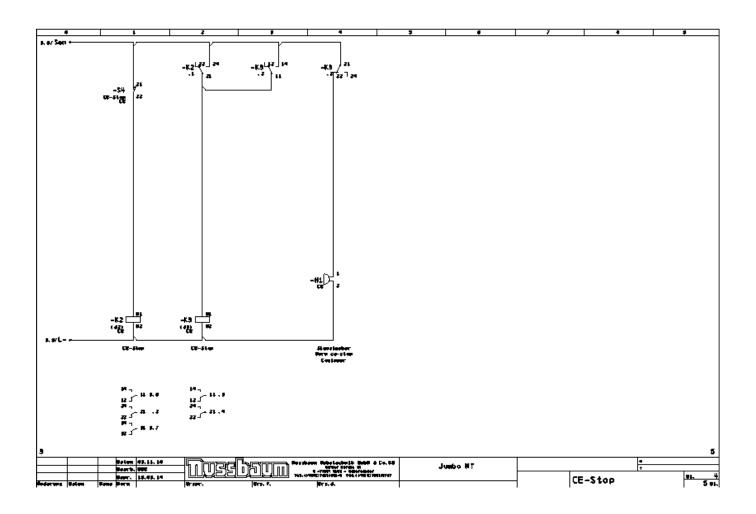
The following tests were done:

- Voltage test and/or insulation test of the control cabinet according to VDE0100/5.73
- Inspection of effectiveness of the safety measures used for indirect contact according to VDE0100g/7.75 para. 22
- Functional test and part test according to VDE560/11.87

Implemented safety measures:

- Protection against direct contact according to VDE0100/5.73. para. 4
- Protection against indirect contact according to VDE0100/5.73. para. 5





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	Hiermit erklären wir, daß die Hebebühne, Modell: Hereby we declare that the lift model: Par le présente nous déclarons que la port élévateur modèle Por la présente declars, que el elevador modelo. Con la présente si dichiara che il so levatore:	JUMBO LIFT 3200 NT
	allen einschlägigen Bestimmungen der folgenden Richtlinien entspricht: fulfils all the relevant provisions of the following Directives: correspond aux normes suivaries: cumple todas las disposiciones pertinentes de las Directives signientes: ademple a tutte je richteste delle seguend direttive;	
	Maschinenrichtlinie / Machinery Directive EMV Richtlinie / EMC Directive	2008/42/EG 2004/108/EG
	in Übereinstimmung mit den folgenden harmonisierten Normen gefertigt wurde was manufactured in conformity wilh the harmonized norms fatriqué en conformité se on les normes harmonisées en vigueurs, producte de acuerdo a las siguientes normas armonizadas, é atato taboricato in conformita con le norma armonizzata.	
	Fahrzeug- Hebebühnen / Vehidé IIIs	EN 1493: 2010
	Beaufiragter für die Technische Dokumentation Authorised to compile the technical the	Otto Nußbaum GmbH & Co. KG
	Seriennummer Seria huntber	Secennummer
Dramme_LUNNO-8000MT_2016-03 axes	Kehi- Bodersweier, 31.03.2015	Dr. Mertin Huck Geschäftsführer Technik / COO





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