Original operating instructions

Weber double scissor lift
Model: DSH-3500

Version 1.3
Status: January 2024

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Content

The test book can be found in the appendix.

The information given in this manual has been carefully checked, nevertheless errors cannot be completely excluded. This manual is intended for users with technical knowledge in the field of inspection and repair of vehicles. We reserve the right to make technical changes and changes in content.

Status of the operating instructions: December 2023

1 Security

1.1 Introduction

Your lift is type-approved and offers you the best possible economy and safety. It is up to you to utilise these advantages.

This requires correct operation, proper maintenance and good care of the lift. Please read these operating instructions carefully. It provides you with all the necessary information and shows you how easy it is to keep your lift ready for use at all times.

Your lift is designed exclusively for lifting cars or motor vehicles whose total weight does not exceed the maximum permissible load capacity and load distribution of the lift and whose pick-up points specified by the vehicle manufacturer are located in the pick-up area of the lift.

Always use all 4 pick-up points.

Your lifting platform is used to lift motor vehicles.

Passenger transport is prohibited.

When using the lifting platform in paint shops or rooms in which there is a high volume of materials containing solvents.

The drive is not explosion-proof as standard.

The assembly and operating instructions are an integral part of a lifting platform.

An expert is a person who has sufficient knowledge in the field of lifting platforms based on their professional training and experience and is familiar with the relevant national regulations, accident prevention regulations and generally recognised rules of technology:
z. e.g. BG regulations, DIN standards, VDE regulations, technical regulations of other member states of the European Union.

No liability is accepted for personal injury, damage to the vehicle and to the lifting platform caused by failure to observe these operating instructions.

The following safety instructions warn of dangers and are intended to help prevent personal injury and damage to property. For your own safety, compliance with the safety instructions in this operating manual is absolutely essential. In addition, the applicable national and international safety regulations of the responsible authorities for occupational safety and accident prevention must be observed. Each operator is responsible for compliance with these regulations.

1.2 Safety instructions for commissioning

The DSH-3500 double scissor lift is approved for installation and use in dry rooms. Installation in damp and wet rooms as well as rooms with explosion hazard is not permitted.

The operator is responsible for the selection of the installation site, the ground conditions, the load-bearing capacity of false ceilings, etc. It must be ensured by testing or architect's specifications that the ground conditions meet the requirements or foundations are to be constructed which meet the requirements.

The mains connection of the lifting platform may only be carried out by approved electrical contractors. The usual national regulations must be observed.

Precautions must be taken on site to prevent hydraulic oil from entering the soil.

1.3 Safety instructions for operation

The operating instructions must be accessible and must be observed by every user. The legal regulations for accident prevention must be observed. Statutory provisions and regulations take precedence over the operating instructions.

The lifting platform may only be operated by authorized and instructed persons who have reached the age of 18.

To prevent unauthorized use, the lift is equipped with a lockable main switch.

The range of movement of load and lifting platform parts must be kept free of obstacles. The lifting platform must always be observed during lifting and lowering.

The intended use must be ensured. The specified payload must not be exceeded. The load distribution must be in the ratio 2/5 : 3/5.

The lifting platform and the working area must be kept clean. Parts of the electrical system must be protected from moisture and wetness.

The lifting platform may only be driven on in the lowest basic position. The vehicle is to be picked up only at the points provided for this purpose on the vehicle with the rubber pads.

After briefly lifting free, check that the vehicle is securely supported and that the load is distributed in accordance with the manufacturer's specifications.

The vehicle doors must be closed during lifting and lowering. No parts or tools may be placed on the lifting platform, the rails or on the vehicle to be lifted.

It is forbidden for persons to stay in the danger zone of loads and the lifting platform during the lifting and lowering process.

Persons must not be transported with the lifting platform. Climbing up the lifting platform is also prohibited.

The correct function of the safety devices must be checked regularly. Safety devices must not be put out of operation or their function manipulated in any other way. If there are any irregularities in the safety devices, the lifting platform must not be used.

The main switch is also an emergency stop switch and must be switched off in hazardous situations.

1.4 Safety instructions for service work

Maintenance and repair work may only be carried out by authorized service technicians of the contractual partners of Weber GmbH.

Before maintenance and repair work, the lifting platform must be disconnected from the electrical mains (main switch off, fuse off). Suitable measures must be taken to prevent it from being switched on again.

Work on the electrical part of the lifting platform or on the supply line may only be carried out by authorized specialists or electricians.

Settings and changes to pulse generators, proximity switches, etc. may only be carried out by trained service technicians.

1.5 Safety devices on the lifting platform

Dead man's control: The function of the control elements is only given or active as long as the respective control element is held in the corresponding position.

Emergency stop: An additional "EMERGENCY OFF SWITCH" is installed on the front panel of the electrical control box. Otherwise, the main switch also performs the function of the "EMERGENCY OFF SWITCH".

Front ring operating keys: The operating keys are secured against unintentional actuation by front rings.

Synchronization control: The synchronization, is ensured by a redundant hydraulic system.

Safety latches: The safety pawls are omitted on this model. The safety, is ensured by a redundant hydraulic system.

Safety end switch-off: Shutdown at the top of the scissor system, to limit the maximum lifting height by a proximity switch.

Pressure relief valve: A built-in pressure relief valve limits the working pressure of the hydraulics to the maximum permissible value.

CE stop switch: By activating the proximity switch for CE stop, the electric circuit is interrupted when the lifting platform is lowered approx. 30 cm before the floor, thus stopping the lifting platform. When lowering further, an acoustic warning signal now sounds until the lower basic position is reached.

2 Technical manual

2.1 Scope of delivery

The scope of delivery of the lifting platform includes:

1	Lifting platform incl. ramps
1	Control cabinet with hydraulic power unit
4	Universal rubber pads
1	Small parts set
9	Floor rails for cable feed-through

Optionally available

110510
10 l hydraulic oil

To simplify the operator's work, the lift can be equipped or used with accessories. Only original accessories of the manufacturer are allowed.

2.2 Technical data

Load capacity	3500 kg
Lifting height max.	1900 mm
Traversing height	110 mm
Shooting length	1485 - 2095 mm
Platform distance	800 mm
Rail width	660 mm
Total width	2220 mm
Weight	875 kg
Engine power	2.2 kW
Stroke time	approx. 60 sec
Electrical connection	400 V / 3 Ph / 16 A slow / 50 Hz
Noise level	≤ 75 dB
Color rails / frame	anthracite grey RAL-7016
Color scissors / ramps	black RAL-9017
Filling quantity hydraulic oil	20 l
Viscosity hydraulic oil	HLP 32

Note: Specifications are subject to change without **notice.**

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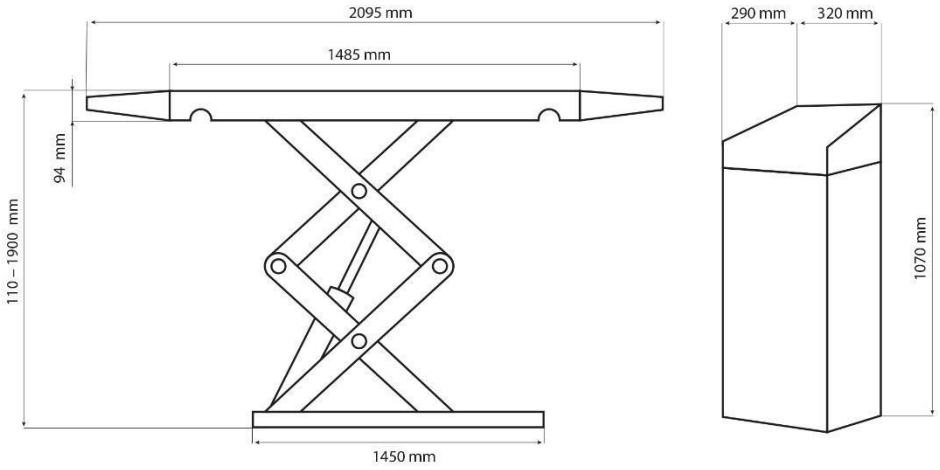
EXPERTSERIE **DSH-3500** Alle Angaben in mm



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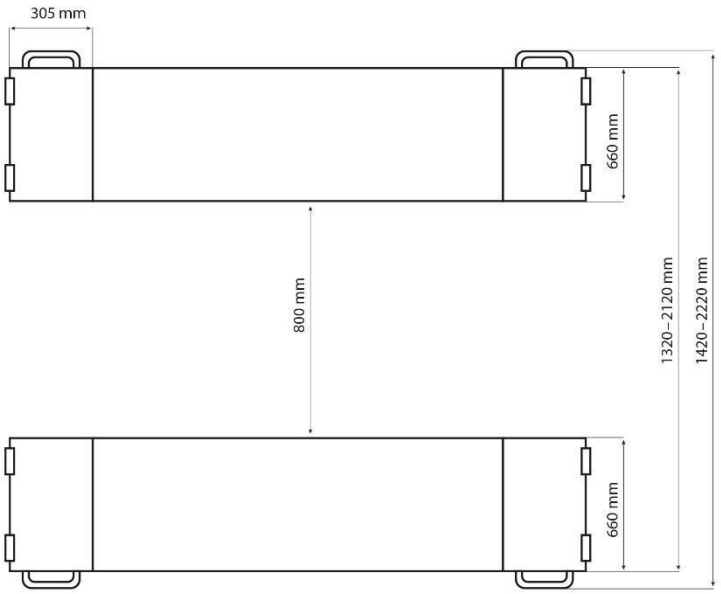


Draufsicht

2.3 EC Declaration of Conformity

We

Weber GmbH
Sülzbach 1
37293 Herleshausen

hereby declare that the machine described below, by virtue of its design and construction and in the version placed on the market by us, complies with the relevant basic safety requirements of the EC Directive. In the event of a modification of the machine not agreed with the undersigned, this declaration loses its validity.

Designation:	Double scissor lift
Model:	DSH-3500
Serial number:	
Relevant EC Directive:	2006/42/EC according to Annex IV Machinery Directive 2014/35/EU Low Voltage Directive 2014/30/EU EMC Directive
Applied harmonized standards:	EN1493:2022 Lifting platforms EN60204-1:2018 Safety of machinery - Electrical equipment of machines Electrical equipment of machines - Part 1: General requirements EN ISO 12100:2010 "Safety of machinery" contains general design principles for machinery and for risk assessment and risk minimisation
Technical data reference number:	F-353-20-0909-23-01-A
Certificate:	C—353-20-0909-23-01-A1 Valid from: 22.01.2024 Valid until: 21.01.2029
Issuer of the certificate:	CTI-CEM International Ltd, Unit 200 Greenogue Business Park, Grants Lane, Rathcoole Co. Dublin Ireland, Kenn-Nr. 2845

Herleshausen, january 2024

Place/Date

Andreas Weber / Managing Director

3 Assembly of the lifting platform

3.1 Foreword

Before removing from the packaging, the assembly instructions must be read through and followed exactly. Non-observance leads to exclusion of liability and warranty. Please note that there is danger to life and limb in the event of incorrect assembly; initial assembly and commissioning must be carried out by service companies authorized by Weber. Weber GmbH does not assume any liability, guarantee or warranty for products and parts thereof destroyed by improper assembly or handling. Please refer to the sheet "Initial commissioning by an expert".

As mentioned in the introduction, this product should be installed by a knowledgeable professional. If you still dare to install it as a novice, we would like to provide you with the following information:

Our products, some of which are pre-assembled, are not completely assembled and checked for function before shipping, but are merely assembled to facilitate assembly. Many individual components are already subject to a test run at the factory, for example, a hydraulic pump is tested before assembly. The complete hydraulic circuit cannot, of course, be subjected to a pressure and leakage test ex works, as the various individual parts are only assembled at your site. These tests must therefore be carried out on site during commissioning. Loading, unloading and transport cause vibrations to which the product is not subjected during "normal operation". For this reason, it is imperative that any electrical control system already pre-installed on the product is checked for loose vibrating screw connections. As a general rule, pre-assembled parts must be checked, tightened, greased and oiled and, if necessary, repaired before commissioning, just like parts that are still to be installed. It is to be expected that, for example, a thread soiled by paint must be recut, this is normal scope of the assembly of a lifting platform and not a defect in the sense of the warranty. Also not a defect is a screw that has been twisted crooked or torn off due to excessive torque, these risks are borne by the installer.

Below are some tips on the various assemblies:

Check **screws and mechanics for** correct and tight fit, check moving parts for smooth running and lubricate. Check

hydraulics for correctly sealed and tightly tightened connection fittings and seal if necessary. **Attention!**
If Teflon tape is used, it must not enter the hydraulic circuit in order to prevent contamination of the valve technology. Screw connections sealed with Teflon tape must not be loosened (turned backwards), otherwise they must be resealed. During the function test, check the complete system for leaks and ensure that no oil can escape into the ground in the event of a leak. When laying hydraulic lines, make sure that they are not brushed or crushed by moving parts; if necessary, fix them additionally. Lubricate hydraulic cylinders through the bleed hole with maintenance oil with Mos2 additive (we recommend Oregon Premium maintenance spray or Pingo MOS2) to keep the seal packs well lubricated and sliding smoothly from the first operation.

Check **cable pulls, rollers and moving parts** (if any) for smooth running, lubricate and grease (we recommend Oregon or Liqui Moly multi-purpose grease). If necessary, remove rollers that are difficult to move and check for contamination (remove any paint residue, etc.) and replace the roller with grease. Always check that the retaining rings are correctly seated. Lubricate wire rope hoists regularly with grease to protect parts located near the floor in particular from corrosion. Grease lifting tables and slide carriages to ensure smooth, jerk-free gliding even under load.
Caution. Good lubrication is required regularlyand prevents premature wear.

Electronics and wiring should always be checked and installed by a specialist electrical company. Before carrying out any work, switch off the main switch and fuses of the mains connection and secure against unintentional restart. Check that the cables are laid correctly and ensure that they do not come into contact with moving parts; if necessary, secure them additionally. Check all screwed connections, including those in the switch box, for tight fit; if necessary, use needle-nose pliers to carefully check the cable ends for correct, tight fit. Since an improperly inserted cable cannot make contact even when the screw terminal is tightened. Check limit and proximity switches for function.

3.2 Site selection

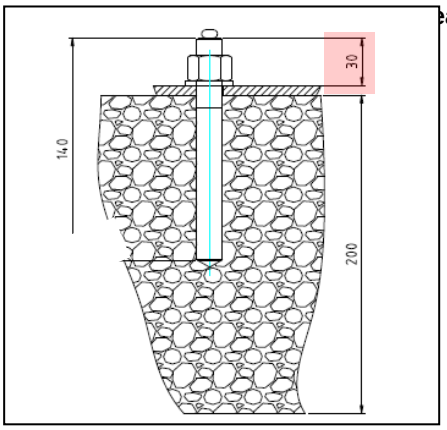
The lifting platform is approved for installation in closed, dry workshop rooms. Use in damp and wet rooms and rooms with explosion hazards is not permitted.

3.3 Floor condition / footprint

The double scissor lift must be set up on a sufficiently firm floor, which can withstand the force exerted on the floor support surface. The load-bearing capacity of the floor must not be less than 1.3 kg/cm². This surface must extend over at least 2500 x 2000 x 200 mm and must not have any expansion joints or cracks that could interrupt the strength of the reinforcement. The supporting surfaces must be flat and level with each other (+/- 5 mm). The operator is responsible for the correct selection of the installation site and for ensuring the load-bearing capacity of the floor.

CAUTION: Soils that **do** not meet the requirements can cause severe property damage and personal injury.

After aligning the lifting platform, move the rails to a height of approx. 1000 mm. Now you can use the drill holes in the base frame as a template to make the drill holes. After this step, remove the dust from the drill holes and align the lifting platform again using the spirit level. Hammer the heavy-duty anchors into the drilled hole so that the protrusion of the thread is a maximum of 30 mm, otherwise the lifting platform cannot be fully retracted (Fig. A). Now tighten the heavy-duty anchors to the torque provided. This applies to both the assembly on the workshop floor and the floor-level assembly.



eavy duty anchor

Heavy duty anchor	Fischer FAZ II 16/50
Number of heavy duty anchors	8 piece
Tightening torque	110 Nm

This drawing is an example of mounting on the workshop floor (Fig. B).

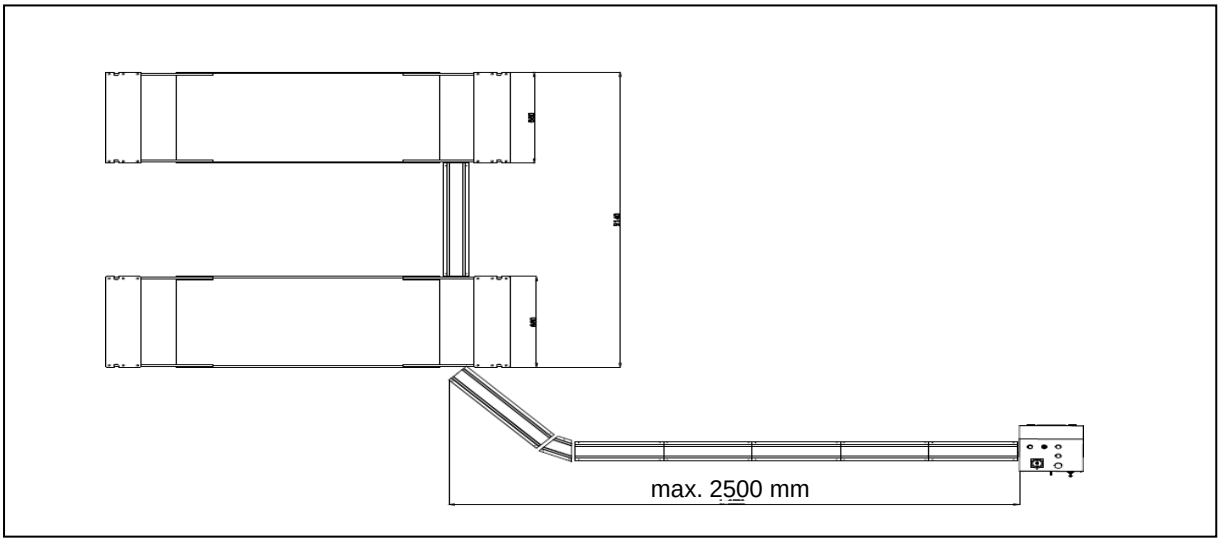


Fig. B

3.4 Preparation for assembly

To determine the location of the lift, you should position a vehicle at the desired working position of your workshop. Mark the optimum position of the lifting platform on the floor with chalk marks. Pay attention to the drive-up direction of the rails **(see item 3.12)**. Position the transport frame of the lifting platform near the installation area, ensure cleanliness and that sufficient working space is available for assembly. Detach the accessory packaging from the lifting platform and remove the parts and store them outside the working area. Make sure that no parts are lost.

3.5 Assembly of the double scissor lift

Remove the accessories and the double scissor lift from the transport pallet and place them at the intended location. Furthermore, remove the electrical control box from the transport box (Fig. 1). Insert the cables into the electrical control box. Two feed-throughs are possible, see red arrows (Fig. 2 & Fig. 3).

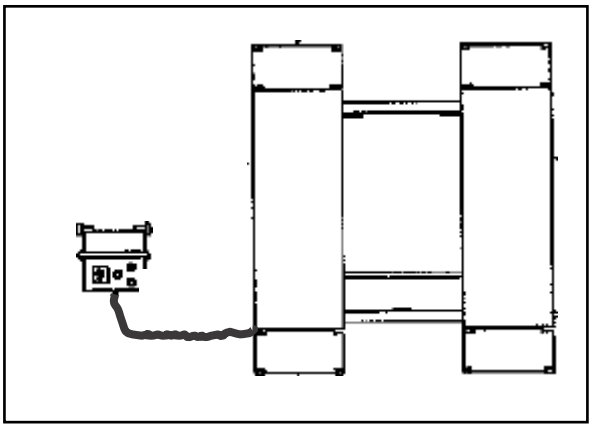


Fig.1

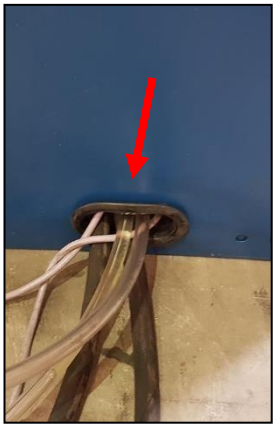


Fig.2

Fig.3

3.6 Assembly of the control and wiring

Open the cover of the electrical control box and remove the terminal protection cover. The blue box shows the already pre-assembled connection of the two electrohydraulic lowering valves (Fig. 4). Insert the cables of the upper limit position switch and the CE stop switch through the PG gland and connect them according to the numbering (red box, Fig. 4). The connection cable on the right side is already pre-assembled at the factory (Fig. 4). This is the connection for the hydraulic unit motor. Check all connection terminals, including those in the motor connection panel, for tight fit.

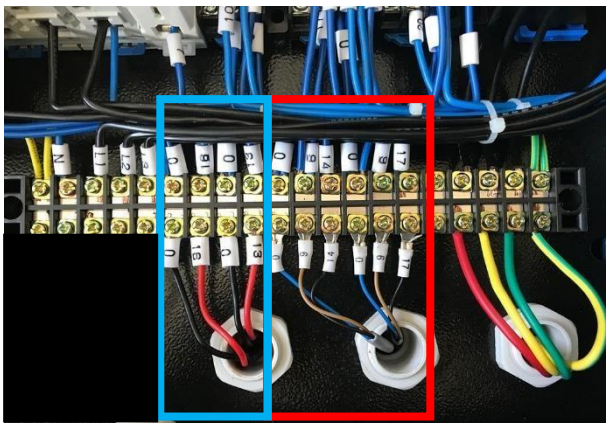


Fig. 4

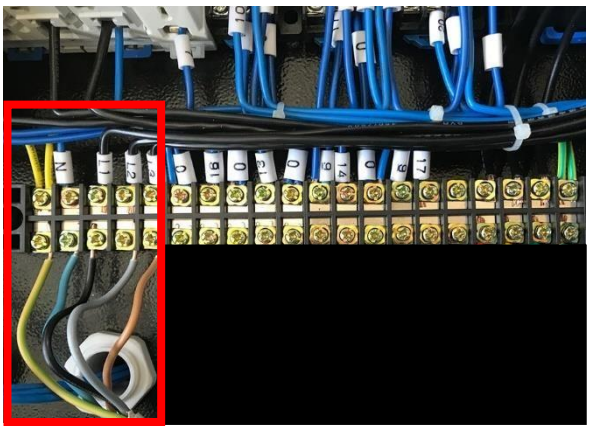


Fig. 5

The mains connection in the control housing and on site (400 V / 16 A slow / 50 Hz) must be made by an authorized electrician. Depending on the legal requirements, the supply line should be made using a cable with a cross-section of min. 5 x 2.5 mm² (Fig. 5).

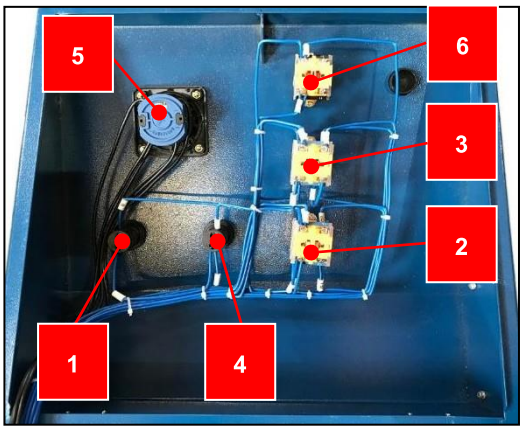


Fig. 6

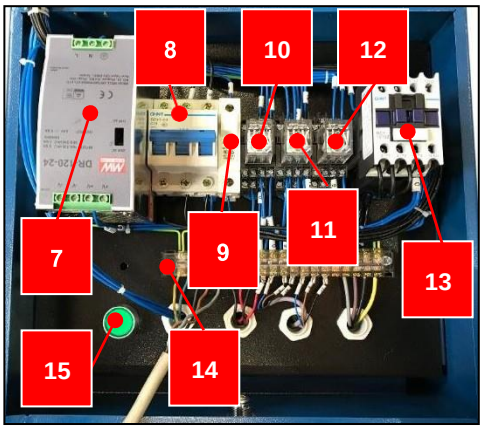


Fig. 7

1	Control lamp
2	Lift" button
3	Lower" & "Park" / "Set Down" button
4	acoustic signal generator"
5	Main switch
6	Emergency stop switch
7	Power supply unit
8	Automatic circuit breaker
9	Low voltage fuse
10	Relay
11	Relay
12	Relay
13	Motor contactor
14	Terminal connection strip
15	Push button for bleeding the hydraulics

3.7 Hydraulics assembly

Make sure that connectors sealed with Teflon tape (already mounted on the hydraulic unit) must never be loosened (turned backwards), otherwise the connectors must be disassembled and resealed. Fill hydraulic oil HLP 32 (Order No. 110510) to the specified fill level into the hydraulic oil tank of the pump (Fig. 8) before starting to assemble the hydraulic lines. Make sure that no oil gets into the soil. The filling quantity is approx. 20 l of oil. As soon as the first test stroke is carried out, it is essential to check the tightness of all screwed connections in order to exclude possible leaks. Then check the oil level in the tank again.

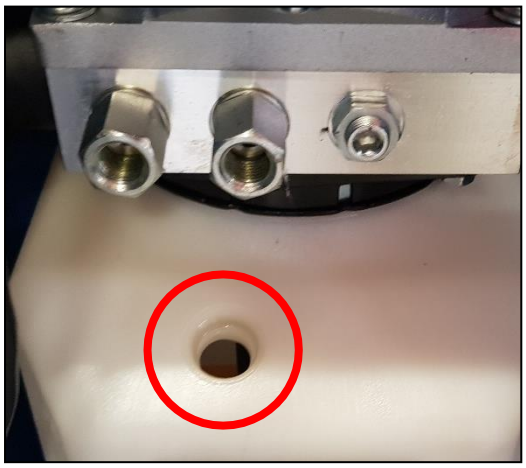


Fig. 8

The operator is responsible for the correct connection of the hydraulic system. Before connecting, check the hydraulic lines for the correct affiliation of the hydraulic cylinders. Connect the hydraulic hoses (Fig. 9) in the order

described here. P1 must always be connected to one hydraulic unit connection and P2 to the other (Fig. 10). The identification can also be done by color coding. If there is no marking for the connection on the hydraulic lines, the connection sequence does not matter. The hydraulic cylinders are connected crosswise so that one hydraulic circuit operates one hydraulic cylinder under each of the rails. The cross connection ensures that in the event of a failure of one hydraulic circuit, the rails are held safely and evenly by the other hydraulic circuit. Do not forget to insert the four sealing rings at the screw connections (red arrows in Fig. 9).

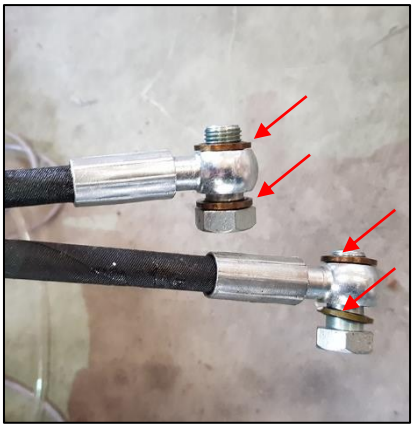


Fig. 9

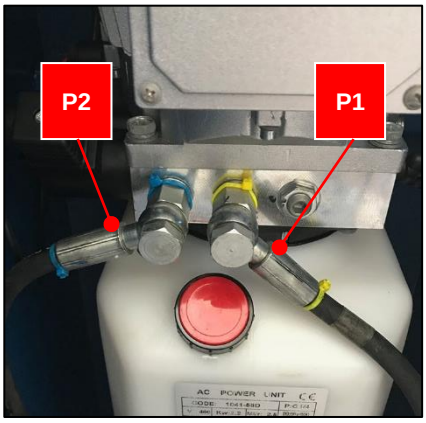


Fig. 10

The two leakage lines (Fig. 11) from the hydraulic cylinders are to be mounted on the Y-piece (Fig. 12) on the pump unit by pressing them in. In the event of disassembly, apply slight pressure to the line in the direction of the pump unit. Then press down the blue ring on the Y-piece and you can now pull out the line. Check all screw connections of the leakage lines for tightness. If necessary, the lines can be shortened in the control cabinet.

Fig. 11

Fig. 12

3.8 Upper limit switch

Check the preassembled and adjusted upper limit position switch for tight fit and function (Fig. 13). The upper limit position switch is a proximity switch.

Fig. 13

If the proximity switch does not function, position the lifting platform to its maximum height. Loosen the screw connection of the proximity switches and adjust them. After adjustment, tighten the screw connections again. Slight corrections in height can also be made with the silver washer on the bolt. Check the performed adjustment again by a function test.

This work may only be performed by trained and authorized personnel. Improper settings of the proximity switches can result in damage to the lifting platform, objects and injuries to persons.

3.9 CE stop switch

Check the preassembled and adjusted CE stop switch for tight fit and function (Fig. 14). The CE stop switch is a proximity switch.

Fig. 14

If the proximity switch does not function, position the lifting platform at a height of approx. 300 mm. Loosen the screw connection of the proximity switches and adjust them. After the adjustment, tighten the screw connections again. Check the adjustment again by performing a function test.

This work may only be performed by trained and authorized personel. Improper settings of the proximity switches can result in da- mage to the lifting platform, objects and injuries to persons.

3.10 Completing and using the ramps

Mount the handles from the small parts assortment on the actuating elements of the four drive-up ramps (Fig. 15). The drive-up ramps are locked in their horizontal position by simply pulling them up on the handle. They can be used as a loading ramp extension and can therefore also be loaded. To tilt the opened drive-up ramps, operate the lever on the ramps and lower them (Fig. 16). This may only be done when the load is off.

Fig. 15

Fig.16

3.11 Assembly of the ducts

After successful assembly of the lifting platform, the cable ducts can now be laid and fastened (Fig. 17). The screws and dowels can be taken from the small parts set. Figure 18 shows an example of how the cable ducts can be laid.

Fig. 17

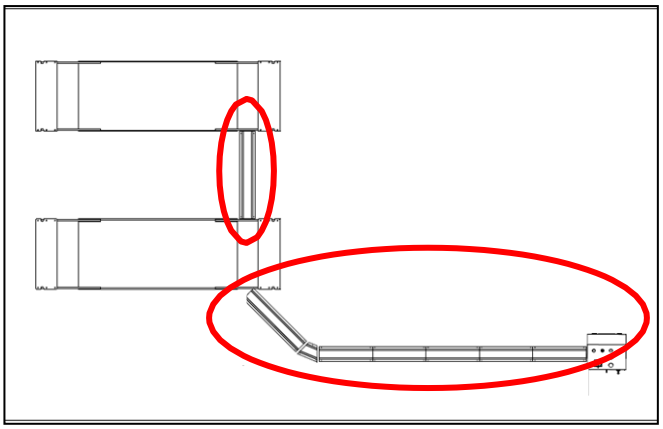


Fig. 18

3.12 Drive-up direction and center of gravity

The center of gravity of a vehicle must always be on the side of the fixed bearing (Fig. 19). As a rule, this is the side on which the vehicle engine is located. Of course, there are exceptions, such as loaded vehicles or workshop vehicles. Always observe the max. load capacity of 3500 kg.

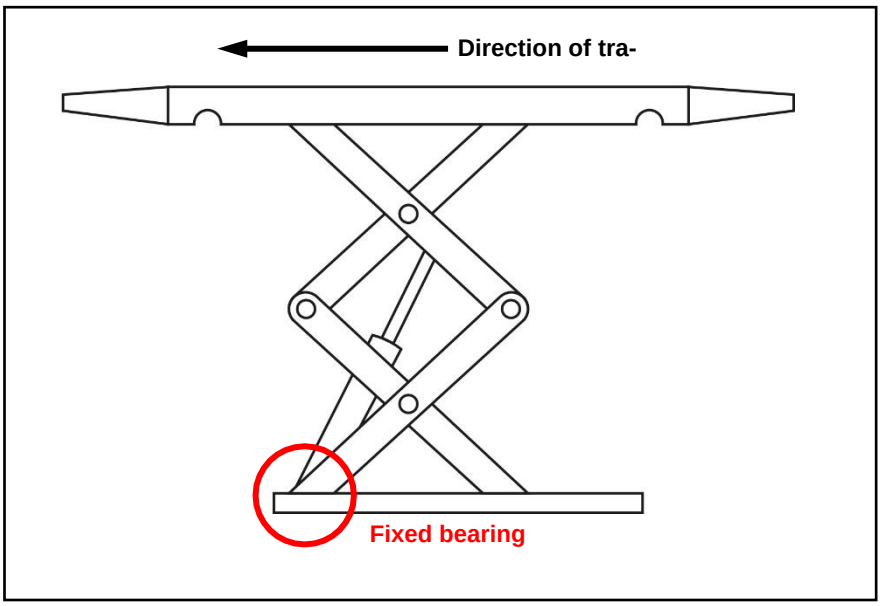


Fig. 19

3.13 Commissioning

After the assembly is completed and the lifting platform is completely lubricated, the electric mains connection can be switched on. Check that the hydraulic oil tank is filled with oil, then press the "LIFT" button. After approx. 30 sec. the lifting movement must start. This time is required during start-up to feed the oil into the still empty hydraulic hoses and hydraulic cylinders. The hydraulic cylinders may move jerkily at first, since the air must first escape from the hydraulic cylinders.

Once the lifting platform has reached the upper limit position switch, open the cover of the electrical control box, press the green push-button there (Fig. 20, red arrow) and simultaneously press the "LIFT" button. This overrides the upper limit position switch and moves the lifting platform over the upper limit stop. This process bleeds the hydraulic system. Keep the green pushbutton and the "LIFT" button pressed until no more air bubbles can be seen on the leakage oil lines. Move the lifting platform down again and repeat this process two or three more times to achieve complete bleeding.

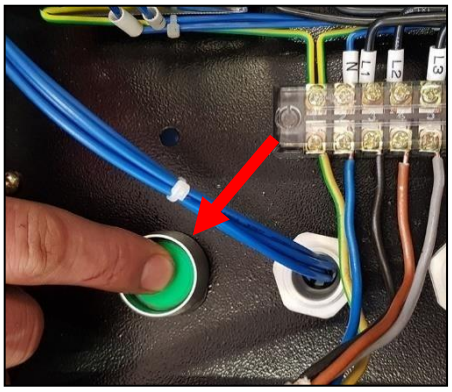


Fig. 20

During the first lifting movement after venting, the lifting platform must be moved without load to approximately half the lifting height. Please check the hydraulic lines and screw connections for leaks immediately.

CAUTION: Observe the entire lift and its components during the entire commissioning process. Do not lift any vehicle until you have completed the final assembly and rechecked all functions, safety devices, and attachments.

When the "LOWER" button is pressed, the rails move downwards under their own weight. During the first lowering processes, the downward movement can sometimes be jerky until the system has completely deflated itself. Please keep the "LOWERING" button pressed long enough. When new, the scissor system is still somewhat sluggish during lowering, which in part slows down the downward movement very much without vehicle weight. Adjust the lowering speed as described in **section 3.14.**

Lower the rails all the way down. If the lift functions properly, you can now pick up a vehicle and raise the lift again to about half the lifting height. Press the "LOWER" button again and lower the vehicle completely. If the lift functions properly, you can carry out a new lifting operation over the complete lifting height; if the max. lift is reached, the hydraulic pump must be switched off by the upper limit position switch. During the lifting process, also observe the hydraulic oil tank, the min. oil level must not be undercut. If this is the case, lower the lifting platform again to the basic position, top up the required quantity of hydraulic oil and repeat the lifting process. If the level is not OK, repeat the previous step until the oil level is OK. Please do not top up too much oil so that the tank does not overflowwhen lowering. Check the complete hydraulic system for leaks again in the raised state.

If the hydraulic pump cannot build up pressure during startup and thus cannot generate a lifting motion, the direction of rotation of the motor is incorrect. In this case, the phases must be exchanged by a specialist electrical company so that the motor has the correct direction of rotation.

3.14 Setting the lowering speed

The lowering speed can be adjusted on the right Allen screw after loosening the lock nut on the front of the hydraulic pump (Fig. 21). The basic setting is carried out as follows. Screw in the screw completely and unscrew it by approx. 1/4 turn. The speed should be adjusted so that the lifting and lowering speeds are approximately the same. When you have finished the adjustment work, lock the adjustment screw again with the nut.

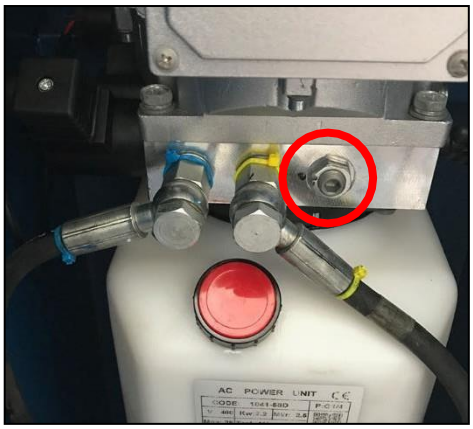


Fig. 21

3.15 Initial acceptance and entry in the inspection book

The initial acceptance must be documented by entry in the inspection book. In these instructions, fill out the form "Initial commissioning by an expert" and send it to Weber GmbH. You will find the form on **page 25.**

FAX: +49 (0) 5654 - 794

Make the entries in the test log book and hand it over signed to the operator. Present the lifting platform to the operator ready for operation, carry out instruction on the basis of the operating manual and explain the operating manual in detail.

4 Instruction manual

4.1 Functional description

The vehicle lift is only suitable for use in dry indoor areas. It must not be used outdoors! It is not intended for use in potentially explosive atmospheres.

The DSH-3500 electro-hydraulic double scissor lift is approved for lifting cars and vans with a maximum weight of 3500 kg. It consists of the following assemblies:

- Double scissor lift
- Electric control box with hydraulic power unit
- Universal rubber pads

The rails are moved up and down on the scissor system by means of joints and hydraulically moved cylinders. In order to dispense with the safety pawls, this system operates with two independently running hydraulic circuits. This is referred to as a redundant system. This also ensures synchronization of the two scissor systems. As a result, the loads are additionally hydraulically secured against falling. See hydraulic diagram.

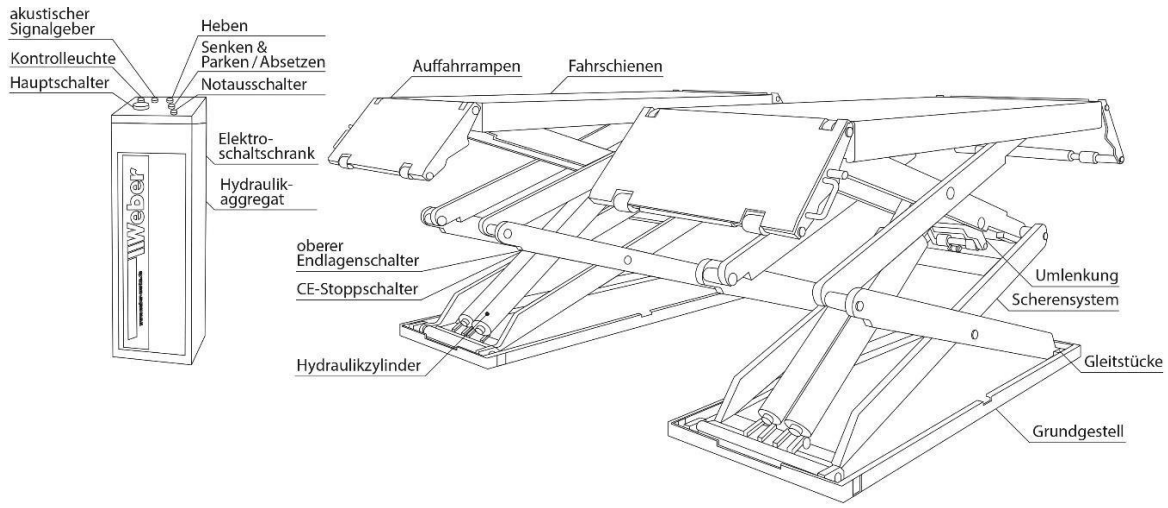
The hydraulic system consists of the motor, the pump, the oil tank, the hydraulic hoses, the hydraulic cylinders and the leakage lines. The motor operated by the pushbutton transmits the torque to the pump by means of the clutch. The pump draws in oil via the oil strainer and generates a pressure of approx. 280 bar (max. operating pressure). The oil is fed into the valve block. From here, it is conveyed via the pressure relief valve into the two hydraulic circuits and from there into the four hydraulic cylinders in the shear system. The pressure relief valve is set to the pressure of the max. load capacity of the vehicle lift (3500 kg). This setting must not be changed. The tank of the hydraulic system has a capacity of approx. 20 l of oil. Lowering is performed via two electromechanically operated lowering valves.

The tightening torque of the heavy-duty anchors is 110 Nm.

The vehicle lift complies with the currently valid standards.

The operator is responsible for compliance with country-specific regulations and standards.

The vehicle lifting platform may only be operated by trained, mentally and physically competent persons with a minimum age of 18 years. A record of the training and instruction for the vehicle lift must be kept.



4.2 Warning and hazard symbols

The warning and danger symbols attached to the lifting platform must be observed.

Sicherheitsbestimmungen
- Die Bedienungsanleitung vor Gebrauch sorgfältig lesen.
- Das Mitfahren und Hochklettern auf der Bühne ist verboten.
- Die Hebebühne ist nach der ersten Inbetriebnahme in Abständen von längstens einem Jahr durch einen Sachkundigen prüfen zu lassen.
- Die gesetzlichen Unfallverhütungsvorschriften sind einzuhalten. Die Bedienung ist nur unterwiesenen und dazu beauftragten Personen gestattet.
- Bei Betriebsstörungen die Bühne außer Betrieb setzen und einen Sachkundigen hinzuziehen.

Betriebsanleitung

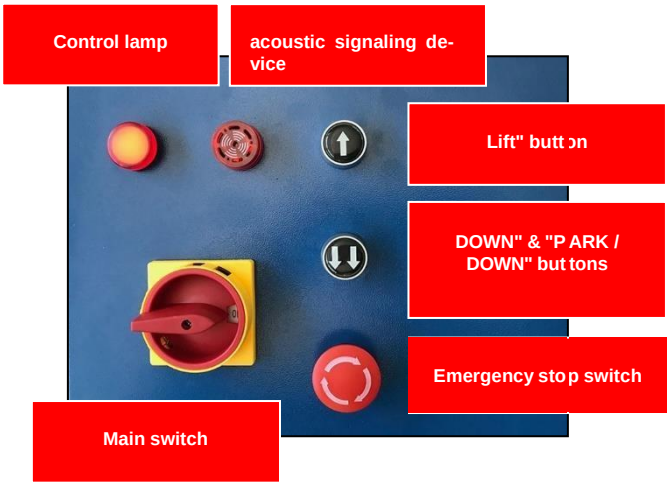
Die Last bzw. das Lastaufnahmemittel ist während der Bewegung zu beobachten und der Gefahrenbereich ist freizuhalten. Die Hebebühne ist nur zum Anheben von Fahrzeugen bestimmt, jede andersartige Verwendung ist untersagt. Fahrzeug mittig einfahren, kurz freiheben und Einstellung prüfen. Nutzlasten in oder auf dem Fahrzeug berücksichtigen. Bei Krafteinwirkung oder dem Aus- und Einbau von Teilen ist die Schwerpunktänderung zu beachten. Notfalls sind Sicherheitsvorkehrungen zu treffen.

Wartung
- Hebebühne monatlich reinigen und schmieren.
- Reinigen der Fahrzeugauflagen und Erneuerung bei Verschleiß.
- Ölstand in abgesenkter Stellung prüfen.
- Nur Markenhydrauliköl und säurefreie Schmiermittel verwenden.
- Außerdem sind die in der ausführlichen Betriebsanleitung gegebenen Hinweise zu beachten.

CE

4.3 Lift

To pick up a vehicle, the rails must be moved to the lowest position. In this position, the vehicle can be driven onto the rails via the drive-up ramps. The vehicle must be driven onto the center of both rails. The universal rubber supports are then aligned and placed according to the vehicle manufacturer's specifications. Use the "LIFT" actuation button to start the lifting platform and bring the rubber pads closer to the vehicle mounting points. Before lifting the vehicle, check once again that the rubber supports are correctly positioned in relation to the specified pick-up points on the vehicle. In this condition, the vehicle can be lifted while observing the load distribution. When the working height is reached, the lifting platform is held in this position by releasing the "LIFT" button.



4.4 Parking / Drop off

The "PARK / SET DOWN" key is combined with the "SET DOWN" key on this model. Lowering takes effect when the CE stop switch has been actuated and the rails are lowered onto the workshop floor.

4.5 Sink

The vehicle lift may only be lowered if there are no persons under the vehicle and in its vicinity and no objects under the vehicle. To lower the lifting platform, press the "LOWER" button. The rails now move downwards. During this process, it must be ensured at all times that no persons approach the vehicle. After reaching the CE stop switch, continue as described in the section "Parking / Lowering". The scissor system now lowers approx. 300 mm to the workshop floor with an acoustic signal. Now the rubber pads under the vehicle can be removed and the vehicle can be moved away.

5 Maintenance

The user is obliged to keep the lifting platform and its components clean at all times and to protect them from adverse environmental influences. The following maintenance work must be carried out.

Once a month: Lubricate all moving parts with grease

Lubricate the bearing bolts

check the tightness of the hydraulic system

Every 3 months: visually inspect all parts and replace faulty parts

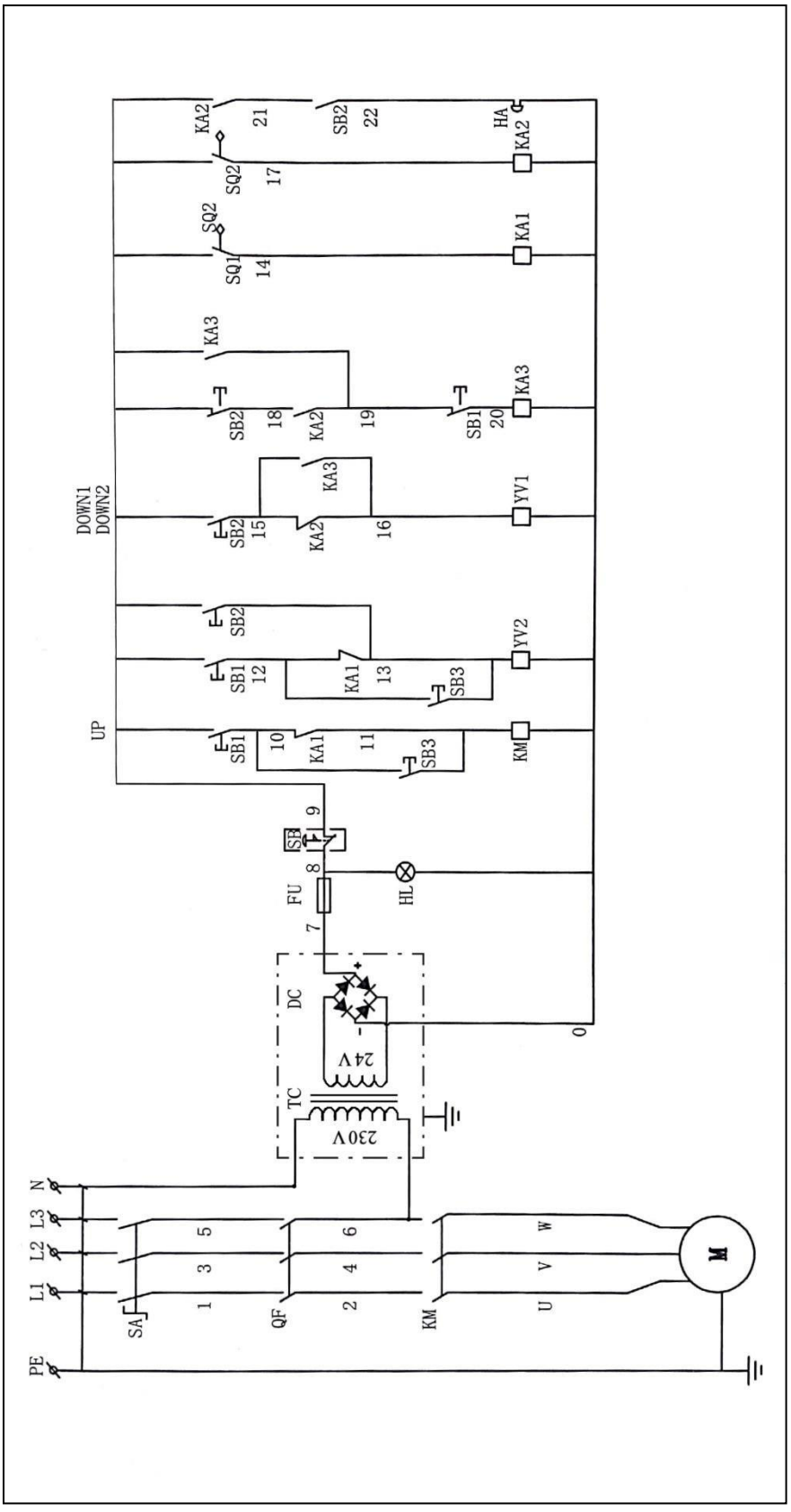
Every 3 years: Replace the hydraulic oil and clean the filter screen.

After 5 years of operation, we recommend replacing the hydraulic hoses

.

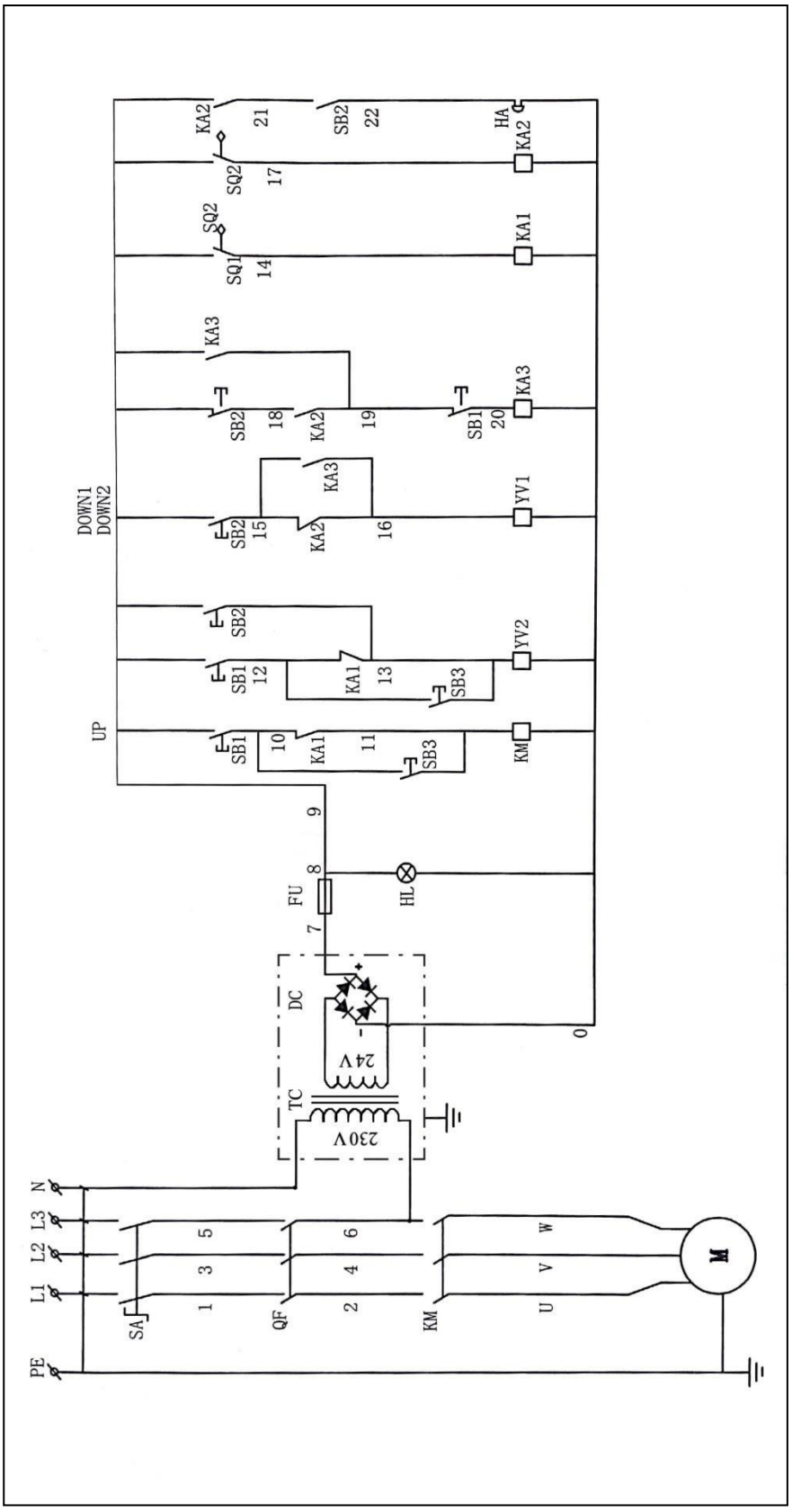
6 Circuit diagrams

6.1 Circuit diagram with emergency stop switch



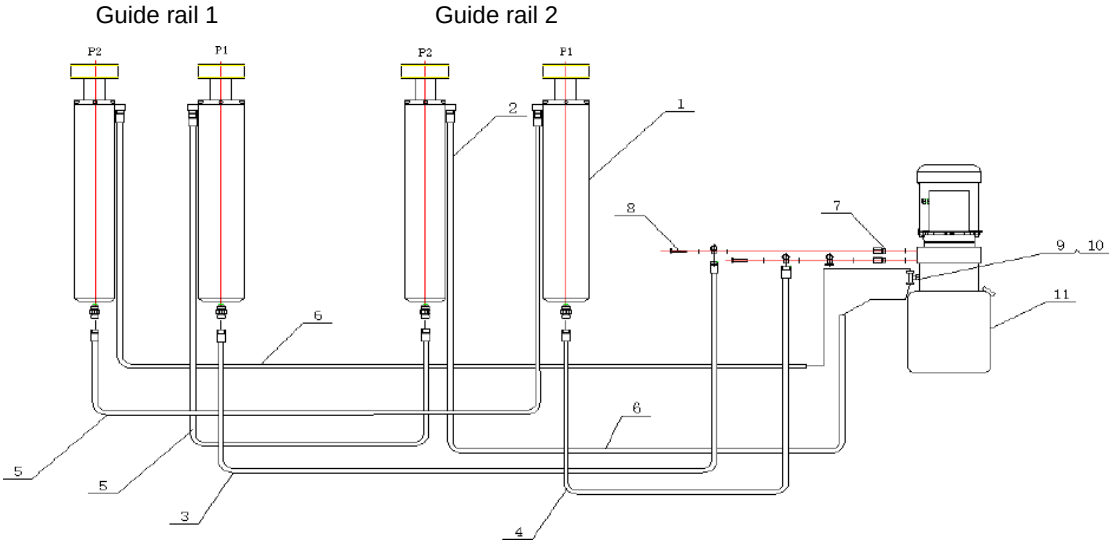
HL	Kontrollleuchte	DC	Gleichrichter	KA 1	Relais
SB 1	Taster „Heben"	QF	Leitungsschutzschalter	KA 2	Relais
SB 2	Taster „ Senken" / „Parken / Absetzen"	FU	Niederspannungssicherung	KA 3	Relais
HA	Akustischer Signalgeber	KM	Motorschütz	SB	Notausschalter
SA	Hauptschalter	SQ 1	Oberer Endlagenschalter	YV 1	Elektromagnetisches Senkventil
TC	Transformator	SQ 2	CE-Stoppschalter	YV 2	Elektromagnetisches Senkventil
M	Elektromotor	L	Außenleiter	N	Neutralleiter
PE	Schutzleiter	SB 3	Überbrückungstaster		

6.2 Circuit diagram without emergency stop switch



HL	Kontrollleuchte	DC	Gleichrichter	KA 1	Relais	
SB 1	Taster „Heben"	QF	Leitungsschutzschalter	KA 2	Relais	
SB 2	Taster „Senken" / „Parken / Absetzen"	FU	Niederspannungssicherung	KA 3	Relais	
HA	Akustischer Signalgeber	KM	Motorschütz	YV 1	Elektromagnetisches Senkventil	
SA	Hauptschalter	SQ 1	Oberer Endlagenschalter	YV 2	Elektromagnetisches Senkventil	
TC	Transformator	SQ 2	CE-Stoppschalter	N	Neutralleiter	
M	Elektromotor	L	Außenleiter			
PE	Schutzleiter	SB 3	Überbrückungstaster			

6.3 Hydraulic circuit diagram



1	Hydraulic cylinder
2	Hydraulic cylinder
3	High pressure line [L = 4200 mm]
4	High pressure line [L = 2900 mm]
5	High pressure hose [L = 2600 mm]
6	Leakage line / oil return line
7	Transition sleeve / connection sleeve
8	Banjo bolt
9	Leakage / oil return line connection
10	Y-piece Leakage / oil return line connection
11	Hydraulic pump with tank and electric motor

7 Behavior in the event of a malfunction

Motor does not work

- Check the electrical power supply including the circuit breakers.
- Further, check the tight connection of all cables
- Check "up" limit switch.

Motor works, the lift does not lift

- The permissible max. lifting load has been exceeded.
- Further, check the condition of the oil filter in the tank (in case of large siltation, wash out the filter and check the permeability of all connections of the hydraulic system).
- The overpressure safety valve is incorrectly set or permanently open.
- The lowering valve is dirty and does not allow pressure to build up.
- Check hydraulic oil level may be too low.

The vehicle lift cannot be lowered

- Check whether there are any objects under the vehicle or the lifting platform.
- Check that the mechanical safety catches are unlocked (if present).

Other disturbances

- Proper lubrication of the sliding surfaces must be checked.

8 Testing

Each vehicle lift has been subjected to static and dynamic testing as well as electrical testing in accordance with the specifications of the applicable European standards.

At the user's premises, the lifting platform must be regularly inspected in accordance with the regulations in force in the country of operation.

9 Initial commissioning by a qualified person

The lift type **Weber DSH-3500**, year of manufacture_____, serial no._____

was subjected to an operational readiness test at_____.

No deficiencies were found, so that there are no objections to commissioning.

The operator has been instructed and instructed by the expert on proper handling

_____Ort, DatumUnter-
schrift des Sachkundigen

_____
Name of the expert

_____
Address

_____

_____

_____

ATTENTION: Please return the proof of initial start-up prepared below by an expert to the manufacturer for the WARRANTY to be valid.

Detach and send or fax to Weber GmbH, Sülzbach 1, 37293 Herleshausen, Germany, Fax +49 (0) 5654-794

_____

PROOF OF THE FIRST COMMISSIONING BY A COMPETENT PERSON FOR

LIFTING MECHANISM TYPE WEBER DSH-3500, Year of Manufacture_____, SerialNo._____

Date:_____ Unterschrift :_____

Name and address of the expert

_____

_____

Address of the operator

By fax to: +49 (0) 5654-794
Weaver GmbH
Sülzbach 1
D-37293 Herleshausen

Inspection book

for

Weber

Double Scissor Lift
Model: DSH-3500

Version 1.0

Status: January 2018

www.weber-werke.deWeber GmbH
Sülzbach 1D-37293
HerleshausenTel
: +49 (0) 5654 / 343
Fax: +49 (0) 5654 / 794
info@Weber-Werke.de

Initial commissioning by a qualified person

The lift type **Weber DSH-3500**, year of manufacture_____,
serial no._____

was subjected to an operational readiness test at_____.

The following focal points were reviewed:

- Proper attachment of the lifting platform with heavy-duty anchors (if available).
  (according to the operator, the workshop floor meets the foundation properties according to the operatinginstructions).

- Complete assembly of all add-on parts such as ramps, covers, etc.

- Checking the direction of rotation of the electrical connection provided by the customer(according to the operator, the connection complies with VDE and EVU regulations)

- Inspection and explanation of the safety devices
  - Function of the safety devices
  - Support arm lock (if present)
  - Emergency shutdowns

- Testing and explanation of maintenance-related equipment
  - Running and lubrication of the moving parts

- Multiple test run with intermediate stops to the end positions - without load(synchronous operation, limit stop, restart)

- Multiple test run with intermediate stops to the end position - with load(synchronous operation, limit stop, restart)

A detailed briefing of the operating personnel took place.

It is pointed out that damage and malfunctions caused by non-compliance with maintenance and adjustment work(according to operating instructions and briefing), faulty electrical connections (rotating field, nominal voltage, fuseprotection) or improper use (overload, outdoor installation, technical modifications) exclude the warranty claim!

_____ _____

Place, date Fitter / Qualified person

_____

Customer / Operator

Installation site

_____

_____

_____

Lifting platform

Type / Model: **Weber DSH-3500**

Year built: _____

Ser.-Nr.: _____

Test step	**OK**	**deficiency**	**Review**	**Remark**
Quick guide to operation	□	□	□	_____
Warning sign	□	□	□	_____
Operating instructions	□	□	□	_____
Lockable main switch	□	□	□	_____
Labelling lifting - lowering	□	□	□	_____
Electrical cable status	□	□	□	_____
Direction of rotation of the motor	□	□	□	_____
Limit switch top - bottom	□	□	□	_____
Control cable or chain function	□	□	□	_____
Condition of column, support arms and support disc	□	□	□	_____
Condition of support nut	□	□	□	_____
Support arm locking function	□	□	□	_____
Status hydraulics - elements	□	□	□	_____
Fill level and tightness	□	□	□	_____
Tightening torques of load-bearing screws	□	□	□	_____
Tightening torques for bolt anchors	□	□	□	_____
Condition of concrete floor (cracks)[1]	□	□	□	_____
Test run with motor vehicle	□	□	□	_____
_____	□	□	□	_____
_____	□	□	□	_____
_____	□	□	□	_____

(Tick as appropriate. If verification is required, please tick additionally)
1) The operator certifies that the floor meets the requirements according to the operating instructions

Test performed

_____
Place, date, name of the expert

_____
Company stamp/signature of expert

Acknowledgement of the defects → → →

_____
Signature of customer/operator

Installation site

_____

_____

_____

Lifting platform

Type / Model: **Weber DSH-3500**

Year built: _____

Ser.-Nr.: _____

Test step	**OK**	**deficiency**	**Review**	**Remark**
Quick guide to operation	□	□	□	_____
Warning sign	□	□	□	_____
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_____	□	□	□	_____
_____	□	□	□	_____

(Tick as appropriate. If verification is required, please tick additionally)
1) The operator certifies that the floor meets the requirements according to the operating instructions

Test performed

_____
Place, date, name of the expert

_____
Company stamp/signature of expert

Acknowledgement of the defects → → →

_____
Signature of customer/operator

Installation site

_____

_____

_____

Lifting platform

Type / Model: **Weber DSH-3500**

Year built: _____

Ser.-Nr.: _____

Test step	**OK**	**deficiency**	**Review**	**Remark**
Quick guide to operation	□	□	□	_____
Warning sign	□	□	□	_____
Operating instructions	□	□	□	_____
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_____	□	□	□	_____
_____	□	□	□	_____

(Tick as appropriate. If verification is required, please tick additionally)
1) The operator certifies that the floor meets the requirements according to the operating instructions

Test performed

_____
Place, date, name of the expert

_____
Company stamp/signature of expert

Acknowledgement of the defects → → →

_____
Signature of customer/operator

Installation site

_____

_____

_____

Lifting platform

Type / Model: **Weber DSH-3500**

Year built: _____

Ser.-Nr.: _____

Test step	**OK**	**deficiency**	**Review**	**Remark**
Quick guide to operation	□	□	□	_____
Warning sign	□	□	□	_____
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_____	□	□	□	_____
_____	□	□	□	_____

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1) The operator certifies that the floor meets the requirements according to the operating instructions

Test performed

_____
Place, date, name of the expert

_____
Company stamp/signature of expert

Acknowledgement of the defects → → →

_____
Signature of customer/operator

Installation site

_____

_____

_____

Lifting platform

Type / Model: **Weber DSH-3500**

Year built: _____

Ser.-Nr.: _____

Test step	**OK**	**deficiency**	**Review**	**Remark**
Quick guide to operation	□	□	□	_____
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Status hydraulics - elements	□	□	□	_____
Fill level and tightness	□	□	□	_____
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_____	□	□	□	_____
_____	□	□	□	_____
_____	□	□	□	_____

(Tick as appropriate. If verification is required, please tick additionally)
1) The operator certifies that the floor meets the requirements according to the operating instructions

Test performed

_____
Place, date, name of the expert

_____
Company stamp/signature of expert

Acknowledgement of the defects → → →

_____
Signature of customer/operator

Installation site

_____

_____

_____

Lifting platform

Type / Model: **Weber DSH-3500**

Year built: _____

Ser.-Nr.: _____

Test step	**OK**	**deficiency**	**Review**	**Remark**
Quick guide to operation	□	□	□	_____
Warning sign	□	□	□	_____
Operating instructions	□	□	□	_____
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_____
Place, date, name of the expert

_____
Company stamp/signature of expert

Acknowledgement of the defects → → →

_____
Signature of customer/operator