

ECONLIFT

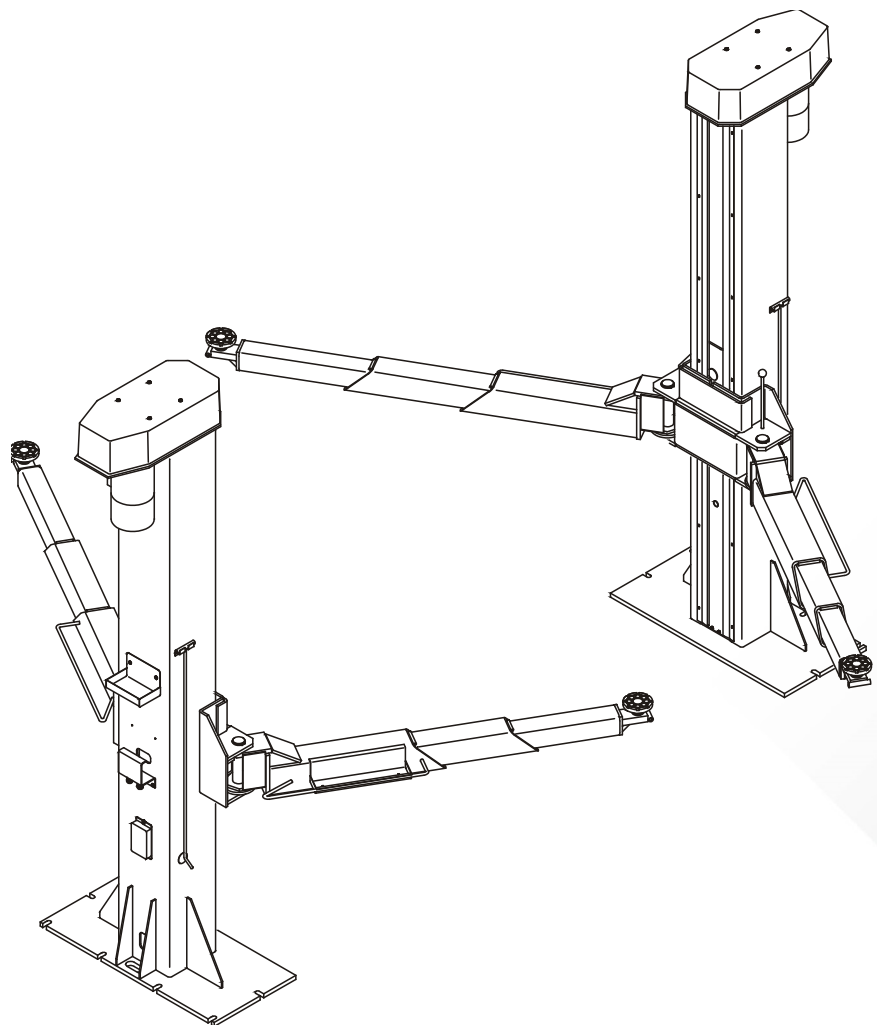


ECONLIFT 6500

Two Post Lift

Original Operating Instructions

BA361601-en



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1 Safety

1.1 Introduction

Thoroughly read this manual before operating the lift and comply with the instructions. Always display the manual in a conspicuous location.

Personal injury and property damage incurred due to non-compliance with these safety instructions are not covered by the product liability regulations.

1.2 Symbols



Important safety instructions. Failure to comply with instructions could result in personal injury or property damage.



Important information.

1.3 Intended Use

- This lift is to be used exclusively for the safe lifting of motor vehicles. Observe the rated load capacity.
- The lift may not be modified without the express written consent of the manufacturer. In case of non-compliance the declaration of conformity becomes void.

1.4 Inappropriate Use

Any use other than described is inappropriate, for example:

- Climbing on the lift supports
- Transporting persons on the lift supports
- Usage as mobile work platform or for other lifting operations

1.5 Requirements on Operating and Service Personnel

All persons employed in the operation, maintenance, installation, removal and disposal of the device must

- be mentally and physically suited for these activities,
- be at least 18 years old,
- be trained and instructed in writing,

- have read and understood the operating instructions, especially the instructions what to do in the event of defects or malfunctions,
- be on record as having been instructed in safety guidelines,
- have practical experience in working with vehicle lifts and the hazards inherent in such equipment.

1.6 Safety Instructions for Commissioning

- The lift shall be installed and commissioned by authorised service personnel only.
- Use personal protective equipment.
- All safety features must be checked for proper function at commissioning.
- The control desk (if present) shall not be installed in the danger zone of the lift.
- The standard lift version shall not be installed and commissioned in hazardous locations, outdoors, in moist rooms (e.g. car wash) or outside a temperature range of 5...40 °C (41...104 °F).

1.7 Safety Instructions for Operation

- Use personal protective equipment.
- Operation of the lift is permitted only with all protective covers (motor, spindle, cylinder cover) correctly installed and undamaged.
- Drive on the lift only when it is in bottom position.
- Ensure an unobstructed movement of lift and vehicle.
- After raising the vehicle briefly, stop and check the lift supports for secure contact with the vehicle.
- Make sure the vehicle doors are closed during raising and lowering cycles.
- Closely watch lift and vehicle during raising and lowering cycles.
- Do not allow anyone to stay in lift area during raising and lowering cycles.
- Do not allow anyone to climb on lift or inside raised vehicle.
- Comply with the applicable accident prevention regulations.
- Do not exceed the rated load capacity as indicated on the lift nameplate.
- Only use the vehicle manufacturer's recommended lift points.
- Do not use the lift for transporting persons.
- Lifts with runways: After positioning the vehicle on the lift secure it against roll-off.
- Keep lift and vehicle free of tools and parts.
- Lifts with support arms: Use caution when removing or installing heavy components. Center-of-gravity displacement may occur. Secure the vehicle using lashing straps.

- Keep the lift and lift area clean. Slip hazard on oily surface!
- The main switch serves as emergency switch. In case of emergency turn it to position "0".
- Protect all parts of the electrical equipment from humidity.
- Protect the lift against unauthorized usage by padlocking the main switch.
- Use caution with operating vehicle engines. Danger of poisoning!

1.8 Safety Instructions for Servicing

- Use personal protective equipment.
- Service work must be done by authorized service technicians.
- Turn off and padlock the main switch before doing any repair, maintenance or setup work.
- The system must be unpressurized during maintenance work.
- Work on pulse generators or proximity switches must be done by authorized service technicians.
- Work on the electrical equipment must be done by service technicians or qualified electricians.
- Ensure that ecologically harmful substances are disposed of in accordance with the appropriate regulations.
- Do not use high pressure or steam jet cleaners. Do not use caustic cleaning agents.
- The lift's safety devices must be set by authorized service technicians.
- Do not replace or override the safety devices.

1.9 What to Do in the Event of Defects or Malfunctions

- In case of defects or malfunctions such as uncontrolled lift movement or deformation of the superstructure, support or lower the lift immediately.
- Turn off the main switch and secure it against unauthorized usage. Contact service.

1.10 What to Do in the Event of an Accident

- The injured person is to be removed from the danger area. Find out where dressing and bandages are kept. Seek first-aid.
- Provide first-aid (stop bleeding, immobilise injured limbs), report the accident and seal off the accident site.
- Immediately report any accident to your supervisor. Make sure a record is kept of every occasion first-aid is provided, e.g. in an accident book.
- Remain calm and answer any questions that may arise.

1.11 Safety Features

- The safety features shall not be modified by the owner/operator!

1.11.1 Dead Man's Type Control

The operator is required to hold the main switch in the engaged position to raise or lower the lift.

1.11.2 Electronic Synchronization System

The synchronization system ensures level movement of both carriages. Synchronization is electronically controlled by the motors switching on and off. Depending on load and operating temperature, the lift control may respond several times.

1.11.3 Safety Nut

In case of load nut failure the safety nut takes up the load and thus ensures safe lowering of lift.

1.11.4 Load Nut Failure Protection

After load nut failure the carriages are locked in bottom position by the control system. Lift operation will not be possible until the load nut has been replaced and the control system has been reinitialized.

1.11.5 Load Nut Wear Check

The load nut can be visually checked for wear to have it replaced in time.

1.11.6 Overload Protection of Motors

The motors are equipped with overload protection switches.

1.11.7 Drive Belt Failure Protection

In case of drive belt failure the motors switch off immediately.

1.11.8 Pinch Point Protection

During lowering cycles the support arms automatically stop above bottom position.

To lower the arms completely, the LOWER button must be released and pushed again. Lift travel to the lower limit stop is accompanied by an audible signal.

1.11.9 Automatic Arm Restraint

The arm restraints are locked automatically once the lift is raised.

2 Description

2.1 General Information

These two-post lifts without base frame are equipped with an electronic synchronisation system. Monitoring of

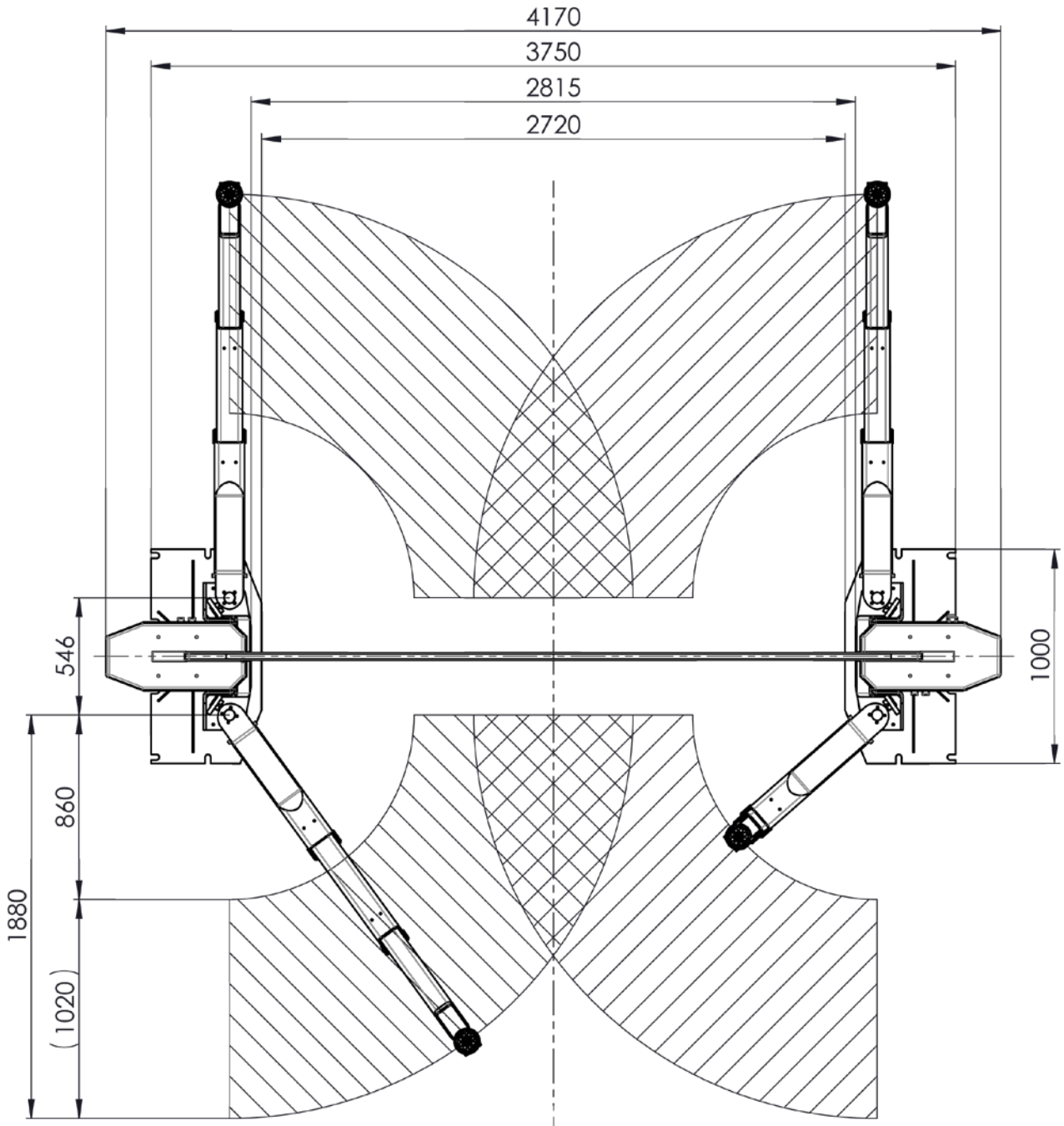
- synchronised operation
- load nut failure
- drive belt failure

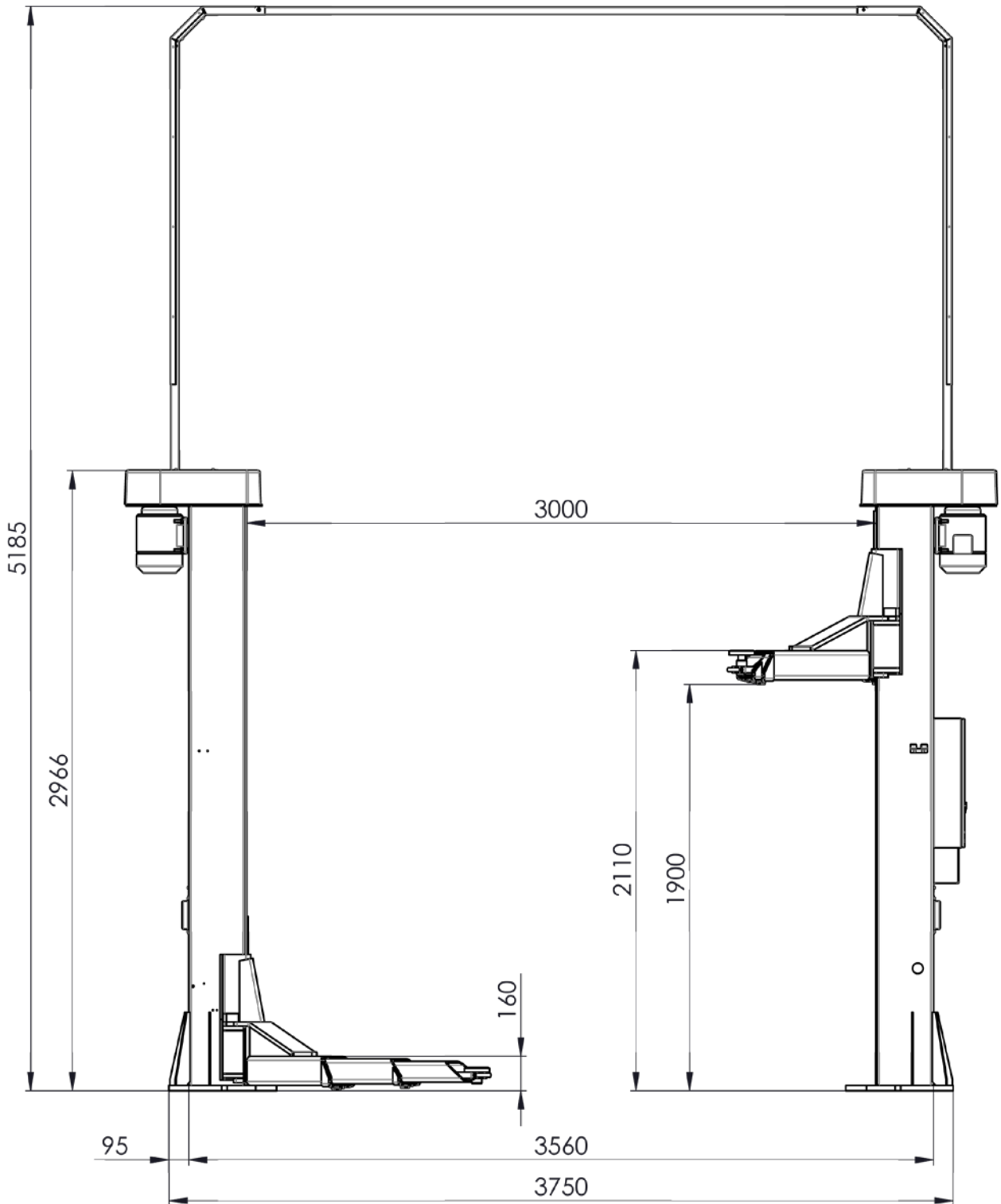
using electronic components ensures a very high safety level.

2.2 Specifications

Fuse (time-delay)	35 A
Motor power per column	4 kW
Working temperature range	5...40 °C
Extension range of support arms max...min.	1880...860 mm
Concrete grade	C 20/25
Drive-through width	2720 mm
Net weight/Shipping weight approx.	1430/1530 kg
Overall width	3750 mm
Overall width including motor cover	4170 mm
Overall height	5185 mm
Bottom clearance of support arms	160 mm
Lifting height max.	2110 mm
Full travel	1900 mm
Inside base plates	2815 mm
Noise emission	< 70 dB(A)
Inside columns	3000 mm
Supply frequency	50 Hz
Supply voltage	400 V
Column height	2966 mm
Outside columns	3560 mm

Load capacity	6500 kg
Adjustment range of support discs max...min.	175...130 mm





3 Transport and Storage

Check package to ensure it is complete, in accordance with the order confirmation. Report any transport damage to the carrier immediately.

During loading, unloading and transport always use suitable lifting equipment, material handling equipment (e.g. cranes, forklifts, etc.) and the right load handling attachments and slings. Always ensure that the parts to be transported are suspended or loaded properly so that they cannot fall, taking into account size, weight and the centre of gravity.

Store the packages in a covered area, protected from direct sunlight, at a low humidity and with temperatures between 0...+40 °C (32...104 °F). Do not stack packages.

When unpacking, take care to avoid any possibility of injury or damage. Keep at a safe distance when opening the package strapping, do not allow any parts to fall out.

4 Installation and Initial Operation

Installation and initial operation of the equipment may be done only by authorized and trained service technicians provided by the manufacturer, licensed dealers or service partners.

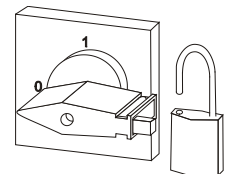
5 Operation

5.1 Main Switch

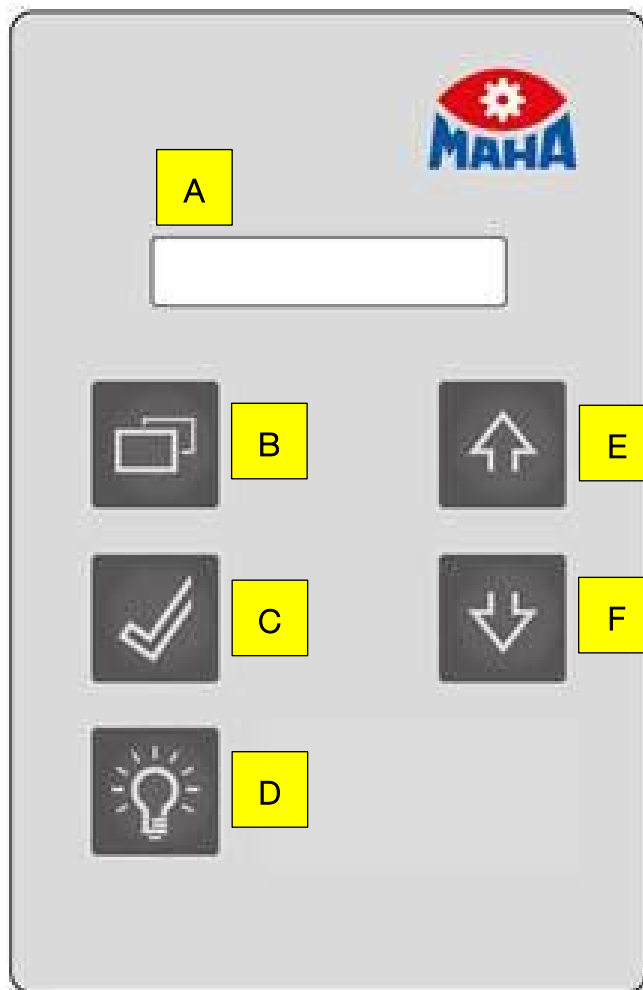


The main switch is used as emergency switch. In case of emergency turn it to position 0.

- Main switch in position 0: Power supply is interrupted
- Main switch in position 1: Lift is ready for operation
- When in position 0, the main switch can be protected against tampering by means of a padlock.



5.2 Controls and Indicators



A Text display

B Menu

C Confirm

D (non-functional)

E Raise

F Lower

5.3 Text Display

5.3.1 Normal Operation

Example texts	System status	Notes
[LIFT MODEL, Version]	System self-test.	An acoustic signal sounds.
H 875 mm	Lifting carriages are at rest. Lift is ready for operation.	The mean value of the lifting height of the carriages + A or + B is displayed in millimetres.
H 925 mm H 975 mm ...	Lifting carriages move upwards.	The period between the updates of the text display is approximately 1 s, which corresponds to a change in height of about 5 cm.
H 825 mm H 775 mm ...	Lifting carriages move downwards.	The period between the updates of the text display is approximately 1 s, which corresponds to a change in height of about 5 cm.
Emergency stop	Only with option "Second operating unit": The emergency stop switch on the counter-post has been pressed, the drive motors are switched off.	The same acoustic signal sounds as during the lowering below the anti-squeeze protection height. After turning off the emergency switch the control restarts.

5.3.2 Referenzierung

Example texts	System status	Notes
Reference Run	Operating data does not contain a valid lifting height; a reference run is required.	Operator must move the lifting carriage to the lower end position and confirm using the Acknowledge button. "H 0 mm" appears on the text display. If the lifting carriages are not in lower end position, confirmation and completion of referencing is not possible. Caution: During referencing cycles the current lifting height is unknown! This process must be performed without load!
Reference Run DN	Reference run of the lifting carriages downwards ("down").	Referencing is performed in the lower end position.

5.3.3 Error Messages with Service Requirement: E000...E199

Error codes in this range indicate errors during operation or control initialisation which cannot be remedied by the operator. The control system tries to transfer the machine into a safe state mode. Service required to make the lift ready for operation again.

Example texts	System status	Notes
Error E101	Load nut failure at column +A.	Contact service!
Error E102	Load nut failure at column +B.	Contact service!
Error E105	Difference between carriages is > 50 mm. Lift is transferred into safe state mode.	Contact service!

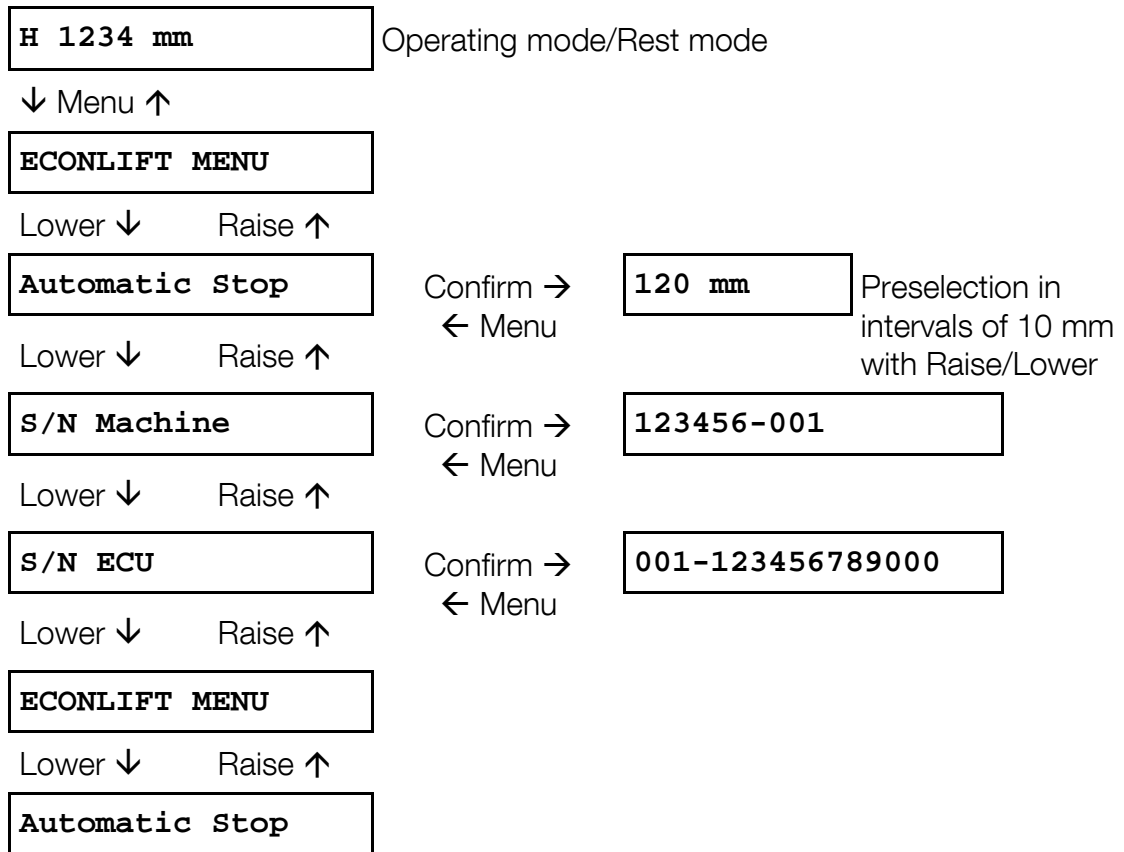
5.3.4 Error Messages: E200...E299

Error codes in this range indicate errors during control operation which typically do not reappear after the lift has been restarted.

Example texts	System status	Notes
Button Error	Several buttons of the control panel were presumably pressed simultaneously.	Lift is transferred into a safe state mode. After releasing the buttons and a waiting period of 3 s the control is reinitialised.
Voltage Error	The supply voltage of the assembly ($U_{\text{Target}} = 24 \text{ V}$) is outside the permissible range.	Switch off the lift and wait 15 s before switching on again! If an error reappears the power-supply of the lift has to be checked by a specialist.
blocked +A blocked +B blocked	The control has detected a blockage.	Raise/lower lift to unblock support arms! If the reference to post + A or + B is missing, then either both lifting carriages are blocked or the location of the blockage is unknown.
sinking +A sinking +B sinking	The control has detected an automatic lowering.	If cause unknown – call service! If the reference to column + A or + B is missing, then both lifting carriages will lower.
Error E203	Lifting carriage +A is in lower end position, but control indicates at least 15 mm lifting height at column +A.	Possible cause of error: Metallic object may be blocking the sensor in the lower end position at column +A or +B. Removing the object and restarting the control triggers a follow-up referencing. The lift can be moved downwards only. The follow-up referencing must be performed without load!
Error E204	Lifting carriage +B is in lower end position, but control indicates at least 15 mm lifting height at column +B.	

5.4 Menu Navigation

5.4.1 Exploded View



5.4.2 Preselecting the Automatic Stop

Lift in operating mode/rest mode.

- 1 Press “Menu” once, then press “Lower”, until menu item “Automatic Stop” appears.
- 2 Press “Confirm”.
- 3 Preselect required lifting height using “Raise/Lower” in intervals of 10 mm.
NOTE: Minimum height of automatic stop is 120 mm.
- 4 Press “Menu” once to quit the preselection. Press “Menu” again to go back to the operating mode.

5.4.3 Disabling the Automatic Stop

Lift in operating mode/rest mode.

- 1 Press “Menu” once, then press “Lower”, until menu item “Automatic Stop” appears.
- 2 Press “Confirm”.

- 3 Use "Raise/Lower" to preselect a lifting height **below** the minimum height of the automatic stop (120 mm) or **above** the maximum lifting height. Display "OFF" appears.
- 4 Press "Menu" once to quit the preselection. Press "Menu" again to go back to the operating mode.

5.4.4 Displaying the Serial Number of the Lift

Lift in operating mode/rest mode.

- 1 Press "Menu" once, then press "Lower", until menu item "S/N Machine" appears.
- 2 Press "Confirm". Serial number is displayed.
- 3 Press "Menu" once to quit the preselection. Press "Menu" again to go back to the operating mode.

5.4.5 Displaying the Serial Number of the Lift Control

Lift in operating mode/rest mode.

- 1 Press "Menu" once, then press "Lower", until menu item "S/N ECU" appears.
- 2 Press "Confirm". Serial number is displayed.
- 3 Press "Menu" once to quit the preselection. Press "Menu" again to go back to the operating mode.

5.4.6 Displaying the Cloud ID

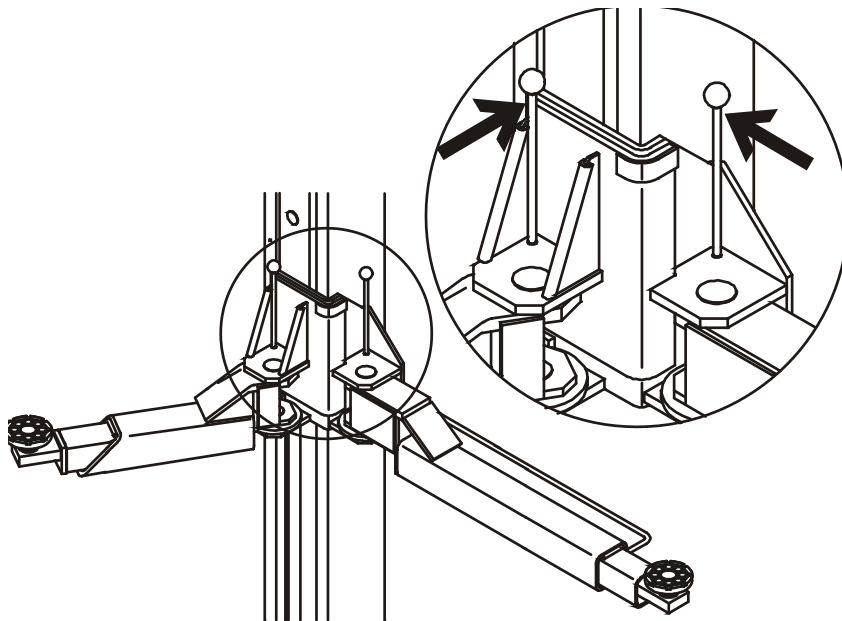
Lift in operating mode/rest mode.

- 1 Press "Menu" once, then press "Lower", until menu item "Cloud ID" appears.
- 2 Press "Confirm". Cloud ID is displayed.
- 3 Press "Menu" once to quit the preselection. Press "Menu" again to go back to the operating mode.

5.5 Arm Restraint



Never unlatch the arm restraint while the lift is loaded.



Each support arm is provided with an arm restraint which unlocks automatically when the lift reaches bottom position.

When the carriages are in a raised position, the arm restraint can be disengaged by pulling the restraint pin. Once the restraint pin is released, the arm restraint locks automatically.

5.6 Preparations

- 1 Fully lower the lift and swing the arms to full drive-through position.
- 2 Slowly position the vehicle midway between adapters. Apply the parking brake.
- 3 Swing and telescope arms as required to position adapters under vehicle manufacturer's recommended lift points.
- 4 Turn the disc adapters in such a way that they evenly contact all four lift points.
- 5 Leave vehicle and remain clear of lift.

Extenders

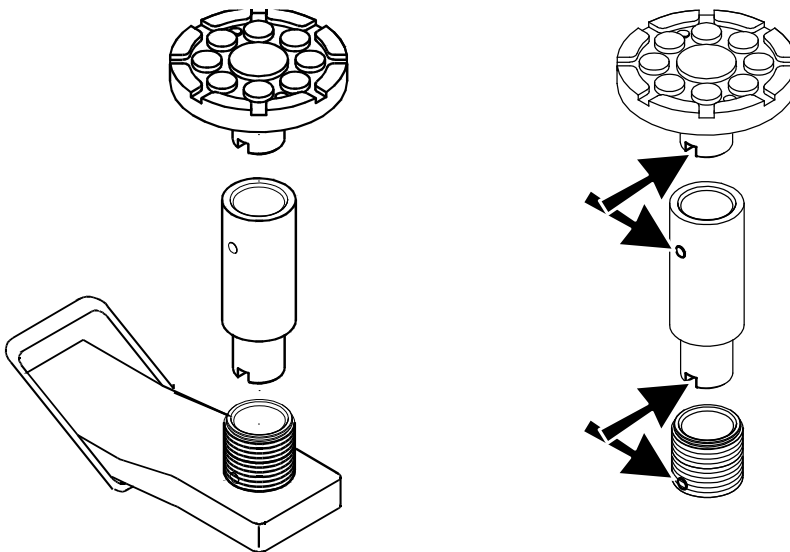
The disk adapters can be raised in steps of 50 mm by using extenders. For fine adjustment turn the disk adapters as required.

The extenders are optionally available in heights of 50, 100, 150 and 200 mm.



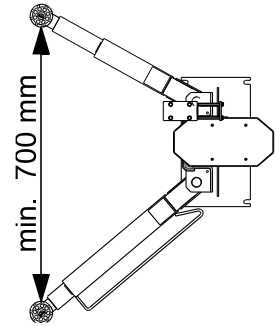
Use **ONE** extender only for each disk adapter.

Make sure the spring dowel sleeves lock into place.





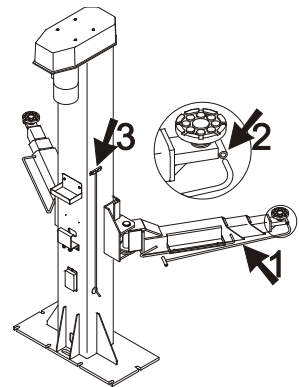
Allow for a minimum distance of 700 mm between adapters.



Lifts with option "double telescopic swing arms" are supplied with a positioning rod (1) and a tube section (2) at the tip of the arm extensions.

Insert the rod in the tube section and draw out the arm extensions to position adapters under vehicle manufacturer's recommended lift points.

When not in use hang the rod on one of the holders (3) provided at the columns.



5.7 Raising



- Once the disk adapters contact the lift points, check arm restraints for secure engagement.
 - If necessary, slightly move the arms until the gear segments mesh.
 - Never pull the restraint pins when the lift is under load!
-

- 1 Turn the main switch to position 1.
 - 2 Push and hold RAISE button until lift reaches desired height.
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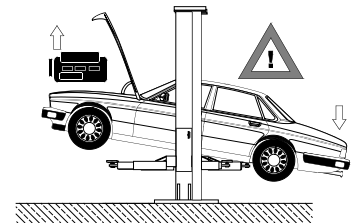
After the “Raise” or “Lower” button has been pressed, a waiting period of at least 1 second must elapse before the next raising or lowering operation can be performed.

5.8 Vehicle in Raised Position

- Observe all applicable accident prevention regulations.
 - Do not allow unauthorized persons to stay under the raised vehicle.
 - Avoid rocking of vehicle.
 - Keep the support arms and the vehicle free of tools and parts.
-



Use caution when removing or installing heavy components. The vehicle may be tilted off the lift due to center-of-gravity displacement. Fasten the vehicle to the support arms using lashing straps.



5.9 Lowering

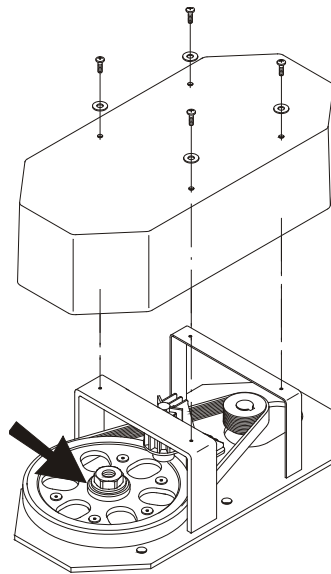
- 1 Remove tools, stands or other objects from lift bay.
- 3 Push and hold LOWER button until lift reaches desired height.
- 3 To lower the arms completely after reaching the CE stop position (pinch point protection), release the LOWER button and push it again.
- 4 Swing the arms to full drive-through position and drive the vehicle off the lift.

5.10 Manual Lowering

In case of defect or power failure the lift can be lowered manually.



- Authorised personnel only!
- Do not restart the lift before the error has been remedied!
- The lift may only be lowered, not raised.



- Remove the cover hoods from both motors to make the pulleys accessible.
- Using a wrench, lower both carriages in increments of 20 mm by intermittently turning the lifting screws.
- After lowering the lift reinstall the cover hoods.

6 Maintenance



Danger! Electric shock hazard!

Before doing any maintenance work, turn off the main switch and protect it against tampering.

6.1 Annual Inspection



- The maintenance interval prescribed by the manufacturer is **12 (twelve) months**. This maintenance interval refers to normal workshop usage. If the equipment is used more frequently or under severe operating conditions (e.g. outdoors), the interval must be reduced accordingly.



- Maintenance work shall be done only by authorized and trained service technicians provided by the manufacturer, licensed dealers or service partners.
 - In case of non-compliance the manufacturer's warranty becomes void.
-

6.2 Maintenance Schedule

Interval	Maintenance points	Procedure
1 week	Supports	Check for function.
		Check for wear, replace as required.
3 months	Lifting screws	Check oil level in oil sumps, top up if required.
6 months	Load nuts	Check for smooth operation, lubricate as required.
	Slide tracks	
	Support arm extensions	
	Support discs	
12 months	Upper support of lifting screws	Lubricate using a grease gun.
	Screw brake	Check brake blocks for wear, replace as required.
	Load nuts	Check for wear.
	Drive system of lift	Check drive belts for wear, dirt and correct tension.
	General inspection	Check all components for damage.

6.3 Care Instructions

- Periodically clean the equipment and treat it with a care product.
- Repair damage to the paintwork immediately to prevent corrosion.
- Usage of caustic cleaning agents or high pressure and steam jet cleaners may lead to equipment damage.



Regular care and maintenance is the key condition for functionality and long life expectancy of the equipment!

6.4 Lubrication

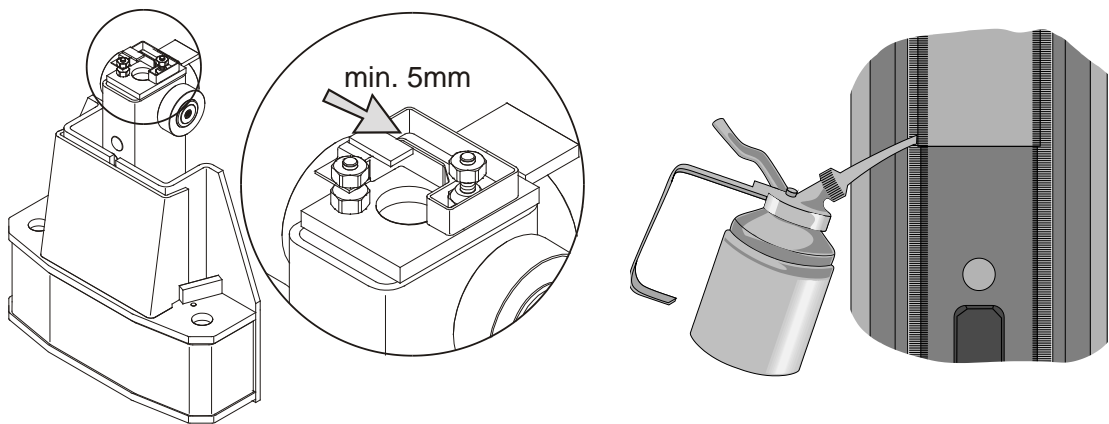
6.4.1 Lubricants

Lubricating points	Lubricants
Lifting screw/Load nut	Gear oil of viscosity class SAE 140 (Part # 36 1100 0) IMPORTANT: Safe and reliable operation cannot be guaranteed if other lubricants are used!
Upper support of lifting screw Support arm extensions Threads of support discs	G-Oil Fago EP2 (previously named: Q8 Rembrandt EP2)

6.4.2 Lifting Screw Lubrication



Use gear oil that meets SAE 140 specifications for lubricating the lifting screw.

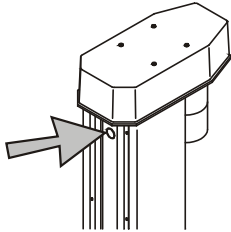


Quarterly check the oil level in the lifting screw reservoir and refill as required (see below). Minimum oil level is 5 mm.

The reservoir is located at the carriage, behind the lifting screw cover.

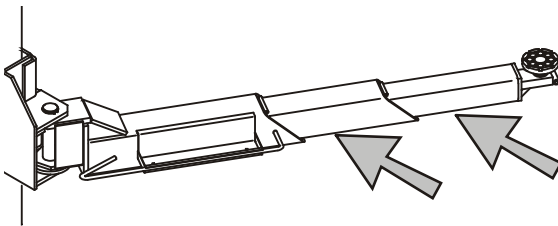
6.4.3 Upper Support of Lifting Screw

Once a year grease the upper supports of the lifting screw using a grease gun. The lubricator nipple is accessible through a hole in the upper part of the column cover.



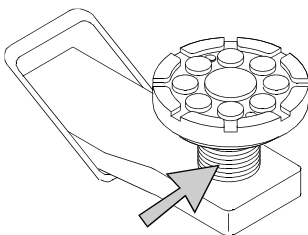
6.4.4 Greasing the Arm Extensions

- 1 Every six months check the support arm extensions for smooth operation.
- 2 Grease as required.



6.4.5 Greasing the Disc Adapter Threads

- 1 Every six months check the threads of the disc adapters for smooth operation.
- 2 Grease as required.



6.5 Operational and Wear Checks

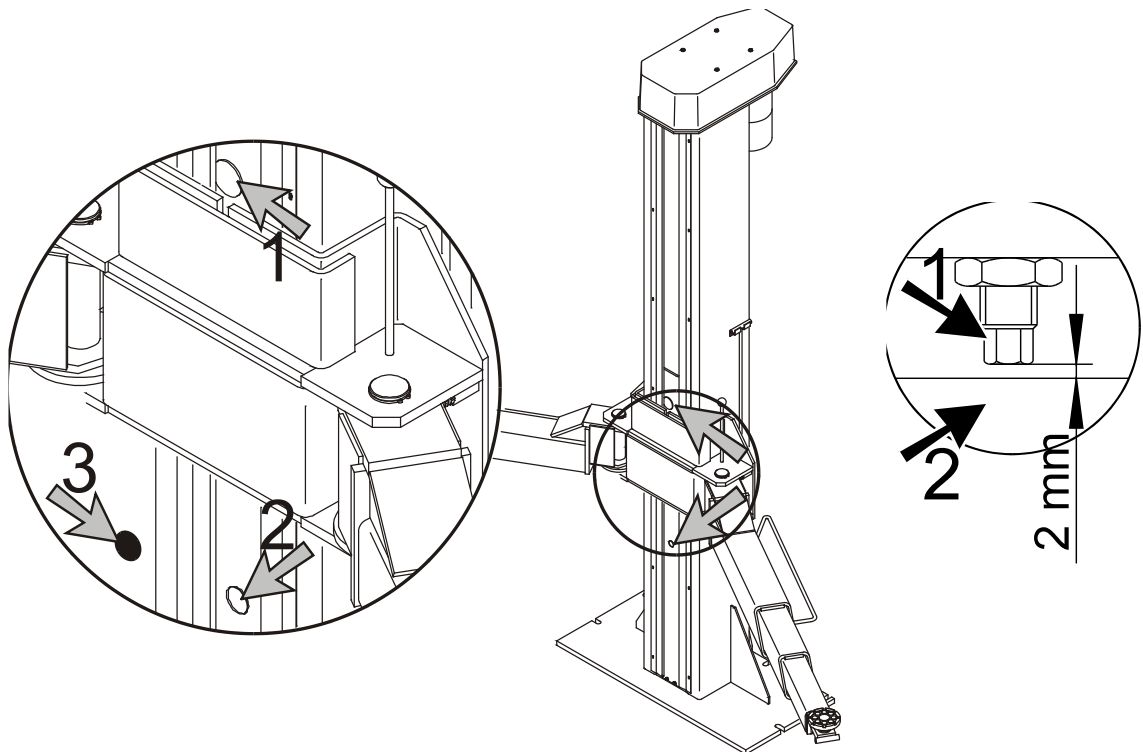
6.5.1 Load Nut Wear Check



Once a year check the load nuts for wear.

If load nut wear has been found, shut down and lock the lift until the load nut has been replaced.

- Raise the lift to approx. midpoint of travel and remove the plastic cap (3) from the column cover.
- Raise or lower the lift until the inspection window in the carriage (1) lines up with the window in the column cover (2).



Wear Check

The check screw now becomes visible in the inspection window.

A clearance of approx. 2 mm between check screw (1) and safety nut (2) is preset at the factory.

If no clearance can be detected, have the load nut replaced prior to further use.

At completion of load nut wear check reinstall the plastic caps.

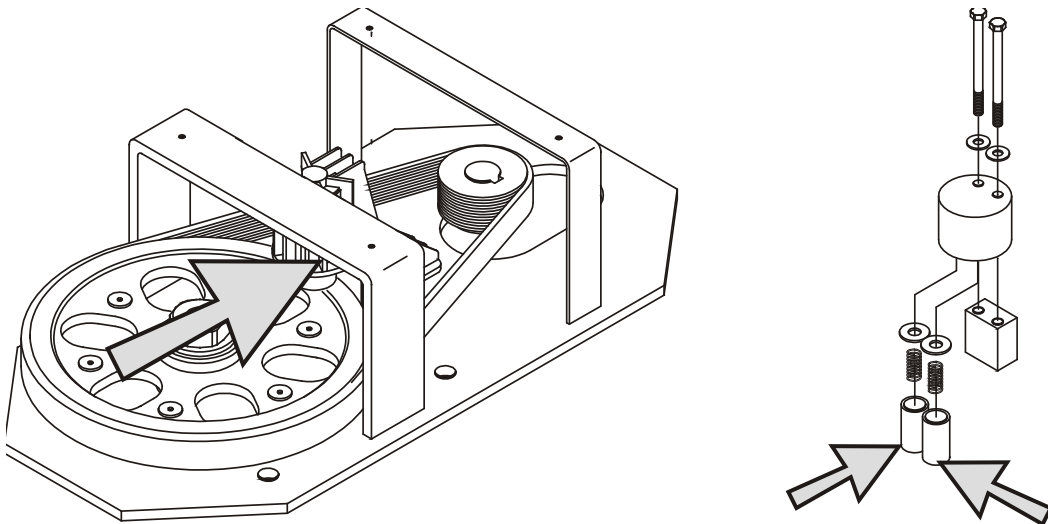
6.5.2 Checking the Rubber Pads of the Support Discs

- 1 Weekly check the rubber pads for wear.
- 2 Replace defective pads.

6.5.3 Checking the Brakes of the Lifting Screws



Make sure the contact surface between brake block and pulley is free of lubricants.



Once annually check the brake blocks for wear and replace them as required. The wear limit is marked by a groove in the brake block.

6.5.4 Checking the Drive Belt

Once a year check the drive belts for wear, dirt and correct tension. Worn-out belts must be replaced. Make sure the running surface is free from lubricants.

6.5.5 Checking the Circuit Breaker

A shockproof socket that can be accessed from the outside is installed to the side wall of the control box. The function of the related FI/CB switch (-F2) inside the control box must be tested by an authorised person.

To test the function, press the test button “T” while in operation; the FI/CB switch must trigger immediately. The function check shall be carried out on a regular basis, but at least every six months unless other regional or user-specific additional tests are planned.

In addition to the functional test of the circuit breaker, the effectiveness of the protective measures in the installation must be checked in accordance with the applicable regulations.

6.6 Spare Parts

To ensure safe and reliable operation, only use original spare parts supplied by the equipment manufacturer.

7 Service Lifetime

In its standard version, this product is designed for 22,000 load cycles based on EN 1493. The maximum period of normal use in relation to the possible product life expectancy shall be evaluated and scheduled by a qualified person during the annual safety inspection.

8 Dismantling

Decommissioning and dismantling of the equipment may be done only by specially authorized and trained personnel provided by the manufacturer, licensed dealers or service partners.

9 Disposal

Pay attention to the product and safety data sheets of the lubricant used. Avoid damage to the environment. Should a disposal of the device be necessary it must be done in adherence with locally applicable legal regulations regarding environmental protection. Remove all materials properly sorted out and bring them to a suitable waste disposal service. Collect operating materials such as grease, oils, coolant, solvent-based cleaning fluids etc. in suitable containers and dispose of in an environmentally protective manner.

Alternatively, you may take the equipment to a specialised waste management plant to ensure that all components and operating liquids are properly disposed of.

10 Contents of the Declaration of Conformity

MAHA Maschinenbau Haldenwang GmbH & Co. KG

herewith declares as a manufacturer its sole responsibility to ensure that the product named hereafter meets the safety and health regulations both in design and construction required by the EC directives stated below.

This declaration becomes void if any change is made to the product that was not discussed and approved by named company beforehand.

Model:	ECONLIFT 6500
Designation:	Two Post Lift; Rated Load Capacity 6500 kg
Directives:	2006/42/EC; 2014/30/EU
Standards:	DIN EN 1493; DIN EN 60204-1

11 Company Information

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The contents of this edition have been checked with great care. However, errors cannot be fully excluded. Subject to technical change without notice.

Document

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