

Stair Lift GRB60

User Manual

INSTRUCTIONS TRANSLATED FROM LITHUANIAN



Revision overview

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Table of Contents

- 1. INTRODUCTION.....4
- 2. GENERAL5
 - 2.1 Signs and symbols used 5
 - 2.2 Lift operator 5
 - 2.3 User 5
 - 2.4 Range of application..... 5
 - 2.5 Qualified workers 6
 - 2.6 Decommissioning 6
 - 2.7 Intended use 6
 - 2.7.1 Safety instructions 6
 - 2.7.2 Use of the platform lift..... 7
- 3. TECHNICAL EQUIPMENT 8
 - 3.1 Platform 9
 - 3.2 Technical specifications 10
- 4. SAFETY DEVICES..... 11
 - 4.1 Platform barriers and access ramps 11
 - 4.2 Safety bottom..... 11
 - 4.3 Lateral bars 11
 - 4.4 Overload alarm 11
 - 4.5 Emergency stop..... 11
 - 4.6 Alarm button 11
 - 4.7 Over speed governor and safety gear 11
- 5. OPERATION OF THE PLATFORM 12
 - 5.1 Controls on the platform 12
 - 5.3 Remote call stations at the stops 13
 - 5.4 Call of the platform..... 13
 - 5.5 Driving onto the platform..... 14
 - 5.6 Driving with the platform 14
 - 5.7 Leaving the platform 14
- 6. TROUBLESHOOTING 15
 - 6.1 General 15
 - 6.2 Error table 15
- 7. RESCUE OF A PASSENGER..... 16
 - 7.1 Platform drive with handwheel..... 16
 - 7.2 Release by raising the barrier 16
- 8. CONTROL AND MAINTENANCE 17
 - 8.1 Security checks..... 17
 - 8.2 Cleaning 17
- 9. MAINTENANCE AND INSPECTION 18
 - 9.2 Maintenance instructions..... 18
 - 9.3 Lubricants and operating fluids, spare parts 19
- 10. Dismantling and disposal 20
- 12. DECLARATION OF CONFORMITY..... 21
- 13. DUTIES OF PLATFORM LIFT OPERATOR 22
- 14. ASSEMBLY AND MAINTENANCE RECORDS 23

1. INTRODUCTION

Barduva congratulates you on the purchase of a stairlift GRB60. We work to offer you safe, efficient and reliable lifting solutions with individual adaptation to existing conditions.

The GRB60 stair lift is designed according to existing norms and European safety regulations.

As with any equipment that operates with load and has moving parts, safe operation requires the utmost attention. Please read this user guide carefully before using the lift. Make sure that each user of the lift has read and understood the this manual. Here you will find the device's operating instructions and safety instructions.

Proper system maintenance and scheduled maintenance by a competent company are also integral conditions for reliable and successful lift use.

Make maintenance arrangements with the companies authorized by the manufacturer, guaranteeing experience and competence.

Keep these instructions for future reference.

The manufacturer is not responsible for malfunctions caused by non-observance of these instructions, non-observance of safety instructions or improper use.

We hope you enjoy using the GRB60 Stairlift!

2. GENERAL

Ensure that this manual is always available to the operator, lift attendant, rescue and maintenance personnel. Follow these instructions carefully.

2.1 Signs and symbols used

Manual uses the signs that helps you to quickly draw attention to more important points when using and maintaining the lift:



Passages marked with this sign require increased attention. These are notes for smooth operation or important recommendations.



Warning. Failure to follow the procedure may result in hazardous situations, personal injury or property damage. Therefore, read these points very carefully.



Sections with these symbols prohibit actions that cannot be performed under any circumstances. Ignoring this sign will result in immediate greater danger and may result in personal injury or property damage.

2.2 Lift operator

At least one responsible person must be assigned to the lift. This person must be easily accessible when the device is about to be used. The device can only be used in a safe condition. If a system is found to be unsafe, the use must be discontinued, the danger zone must be protected.

In the event of an accident, an expert (lift technical inspector or installation company) or the manufacturer must be notified.

The responsible person must ensure that there are no obvious dangerous operational defects and follow the instructions listed in the section "Lift operator's responsibilities".

2.3 User

The platform lift may only be used by competent, qualified and responsible persons who are familiar with an installation. The user must be able to assume responsibility for himself and for third parties.

Persons who do not meet these requirements, as well as children, may only be transported by accompanying persons who also assume responsibility for the person being transported.

2.4 Range of application

The lift may only be used on stairs or accessible ramps. It is recommended to install the system in predominantly dry rooms. The ambient temperature must not be below $-10\text{ }^{\circ}\text{C}$ or exceed $+35\text{ }^{\circ}\text{C}$. This type is not suitable for use in unusual locations (e.g. explosive areas, areas with aggressive media, etc.).

Outdoor use is possible, however, it may be necessary to clean parts of the installation of ice and snow in winter.

2.5 Qualified workers

Installation, maintenance, repairs and checks must be carried out by qualified persons.

2.6 Decommissioning

When the unit is taken out of service for cleaning, maintenance or repair work, it must be protected against unintentional movement. The key switches on the call stations must be switched off and the keys removed.

2.7 Intended use

Regular maintenance, once a year, is mandatory and will guarantee you long-term use and safe operation.

2.7.1 Safety instructions

Observe the following points for correct use:



- The lift is designed exclusively for transporting a person in a wheelchair or seated on a seat specially provided for this purpose.
- Never ride standing on the platform (risk of injury to the head, increased risk of falling).
- The platform lift is not intended for transporting goods.
- Always lock the platform lift so that it cannot be operated by unauthorised persons (e.g. children).
- Pay attention to the rated load and observe the available platform size.
- Observe the instructions attached to the unit.
- The system must be maintained and safety-checked at the prescribed intervals.
- Random passers-by going up or down the stairs must avoid any contact with the platform. Platform lift users must always be aware of pedestrians or other obstacles.



- Do not use the platform lift in case of fire! There could be a power failure during the ride and the user would be trapped.
- Never exceed the permissible load which is indicated on the control panel of the platform.
- Never bring your hands or loose clothing near the track or the backside of the platform when the lift is in motion. Passengers must remain in the wheelchair or seat throughout the ride.
- Do not try to open the barriers by force.
- Do not disable any safety device by making mechanical or electrical changes to the installation. Without the written consent of manufacturer, all types of adjustments and/or modifications to the system are strictly prohibited.
- The lift may only be used by one person at a time. Accompanying persons are not allowed on the lift under any circumstances. Otherwise there is a risk of falling.

2.7.2 Use of the platform lift



The platform lift may only be used if it is in maintained condition. Any malfunction that could affect safety must be avoided or eliminated.



Do not use the lift in case of irregular and/or unusual noises. Report anything unusual to the service technician. Call the service immediately. Follow the instructions and directions from experts and service personnel.

Before activating the up or down movement command, make sure that no one is endangered by the movement of the system. Always look in the direction of travel!

It must always be ensured that an instructed person is near the user. If an emergency call system is installed to call for help, it should be checked regularly to ensure that it is working properly. If outside assistance is called, access must be ensured for the emergency personnel called.

The transport of goods is only permitted if sufficient stability is ensured so that they cannot slip or fall over.

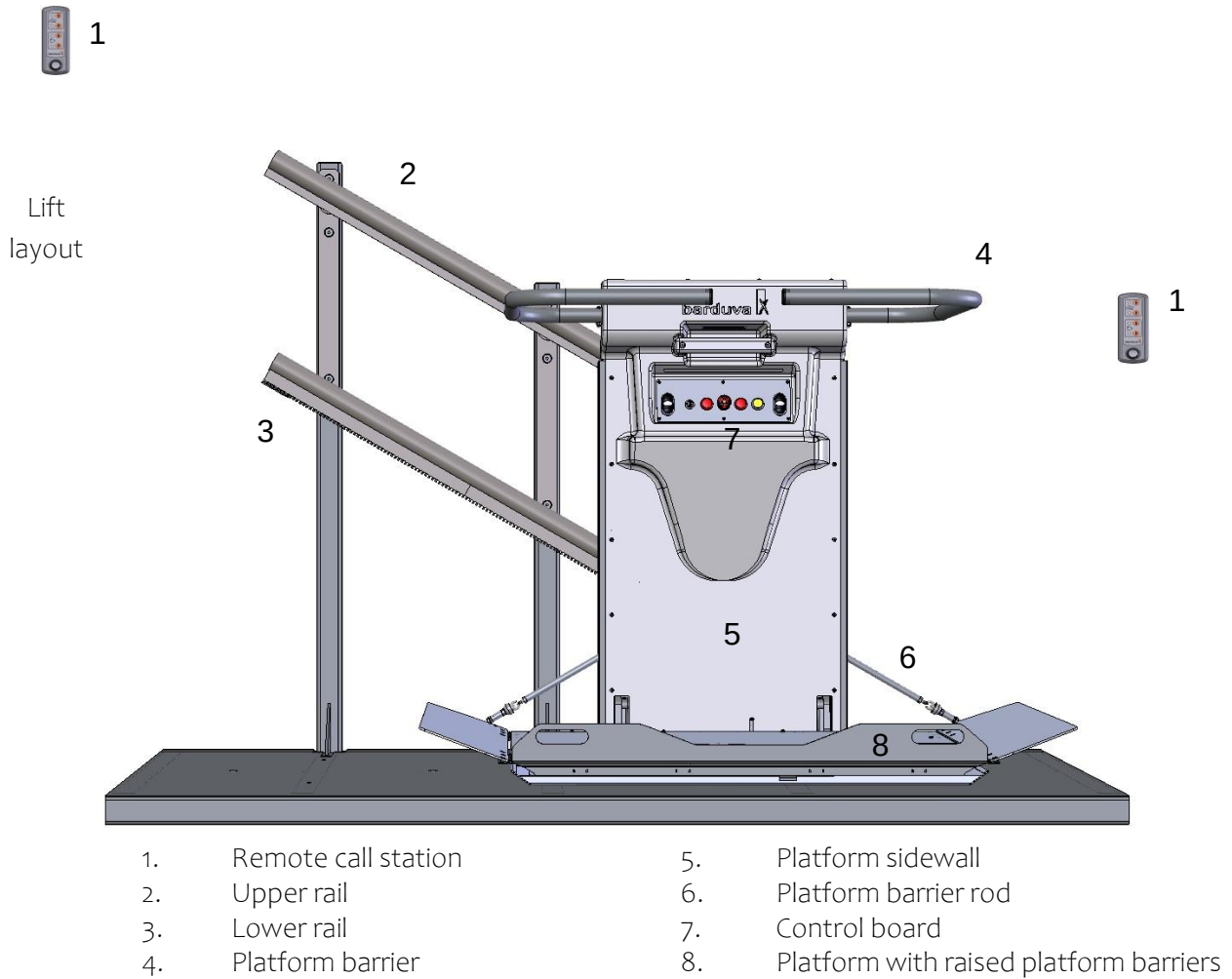
Also, keep the keys in a safe place and do not give them to unauthorised persons. Do not leave the keys on the platform or at the call stations when the lift is not in use.



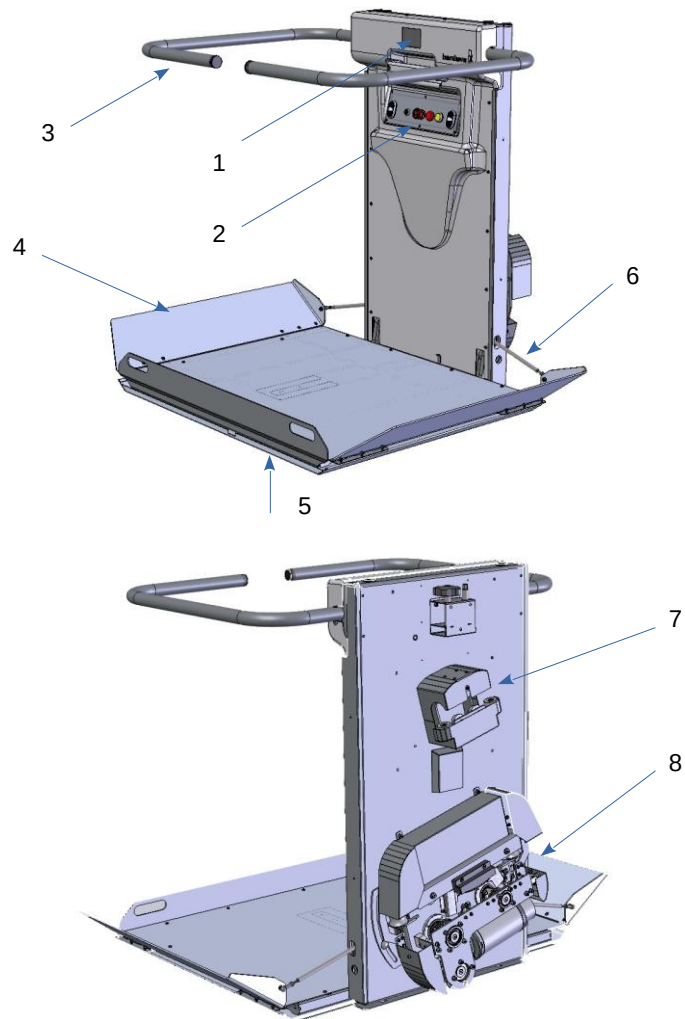
The drive motor of the lift is powered by batteries which are charged by a charger. Charging takes place at each stop via charging contacts. When the lift is not in use, it is therefore necessary to always park the lift in the landing positions.

3. TECHNICAL EQUIPMENT

The GRB60 stairlift is driven with the help of a rack and pinion drive. The lift is powered by 2 x 12 V batteries that are charged at the stops (as long as the power supply unit is powered). The lift can be operated from 2 radio remote controls in the stops and from the control on the platform.



3.1 Platform



- | | | | |
|----|------------------|----|----------------------|
| 1. | Display | 5. | Safety bottom |
| 2. | Control board | 6. | Platform barrier rod |
| 3. | Barrier | 7. | Upper carriage |
| 4. | Platform barrier | 8. | Lower carriage |

3.2 Technical specifications

| | |
|--------------------------------|---|
| Steepness | 0...45° |
| Travelling distance | Up to 35 m in length |
| Movement rate | ~ 0.1 m/s |
| Drive power | 0.5 kW |
| Voltage | 24V DC internal 230V for charging |
| Drive arrangement | On the backside of the platform |
| Appliance | Inside / outside |
| Permissible temperatures | -10 °C to +35 °C |
| Platform version | Wheelchair platform Optionally with folding seat |
| Platform size | Standard 700 x 750 mm Special sizes optional |
| Rated load | Standard 250 kg |
| Surface finish of the platform | Powder coated Plasstic covers |
| Rails | Aluminum with steel rack |
| Noise level | < 60 dB (A) |
| Compliance | Parts of EN 81-40 |

4. SAFETY DEVICES

The GRB60 stairlift is equipped with the following safety devices:

4.1 Platform barriers and access ramps

Barriers and access ramps, raises before travel and remains raised throughout the travel, prevent the passenger from falling of the platform. Open automatically at the landings.

4.2 Safety bottom

The sensitive bottom is a touch-sensitive panel under the entire platform attached to the platform from below. When touched, the system stops immediately. The drive command up, in the opposite direction, remains active.

4.3 Lateral bars

Lateral bars are fitted to the sides of the platform side wall to protect against falling out of the platform while travel.

4.4 Overload alarm

Platform is equipped with an overload device. If the load capacity specified on the type plate is exceeded by more than 25%, an overload sensor stops the system, an acoustic signal sounds and the overload status is indicated on the display. In this condition it is not possible to drive off from the landing. Do not overload the platform.

4.5 Emergency stop

The lift is equipped with an emergency stop button located on the control panel of the side wall of platform. If you need to stop the platform in an emergency, press the red button. Unlocking is done by pressing it again or turning clockwise.

4.6 Alarm button

The platform is equipped with an alarm button to summon help. By pressing the alarm button, a loud emergency signal sounds.

4.7 Over speed governor and safety gear

The platform lift is equipped with an over speed governor with a safety gear. If the platform moves downwards at increased speed (e.g. due to a defect or etc.), the increased speed is immediately detected by the over speed governor and the safety gear is triggered. The safety gear brings the platform to a standstill by holding it on the rails. This prevents the platform from falling.

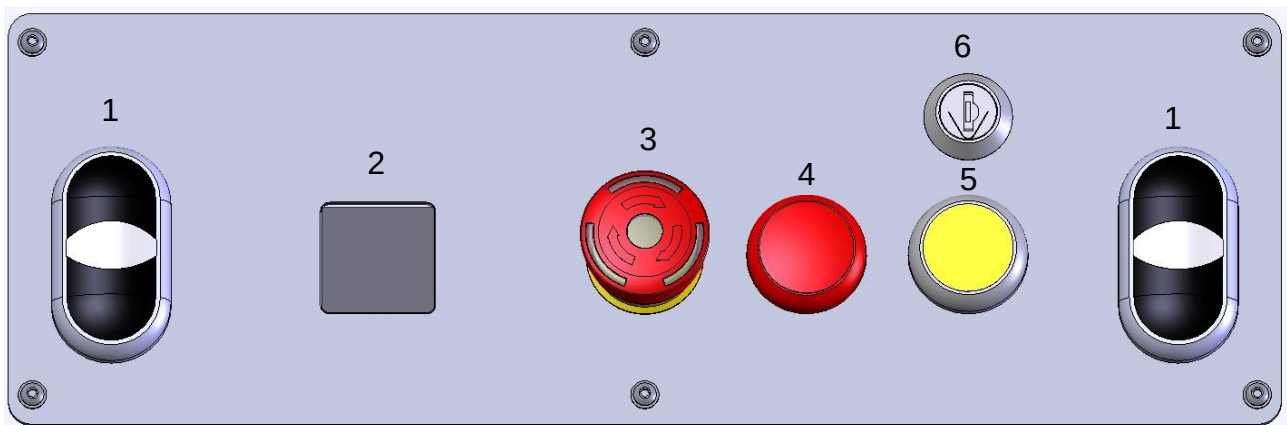
5. OPERATION OF THE PLATFORM

5.1 Controls on the platform

The platform is equipped with control board.

This allows to operate the lift from a seated position as well.

The control board contains the directional driving buttons, an emergency stop and an audio alarm button. The handset is only used to drive the open platform and to open and close the barriers in the landings.



- | | | | |
|----|-----------------------|----|-----------------------|
| 1. | Move buttons | 4. | Emergency call button |
| 2. | Display | 5. | Operation signal |
| 3. | Emergency stop switch | 6. | Key switch |

5.3 Remote call stations at the stops

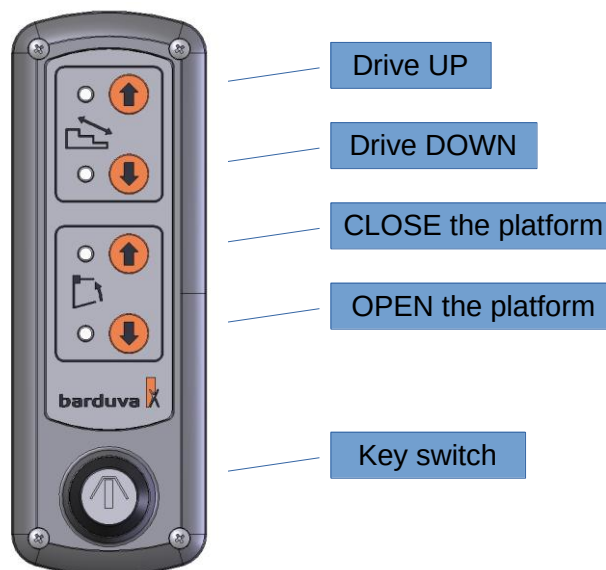
Remote call stations are located at each stop.

The remote control must be activated with the key switch before operation.

The call stations are used for calling and sending, as well as for opening and closing the platform.

Alternatively, or additionally, controls can also be mounted on the top of the platform side wall.

The radio remote controls are powered by 2 x AAA (1.5V) batteries as standard. The battery life is approx. 1 year.



5.4 Call of the platform

The platform is equipped with call stations with which the lift can be brought up and sent, and the platform can be folded up and down. The call stations are located in the area of the stops.

Before calling the platform, make sure that nobody is endangered by the movement of the platform.

To call the platform, follow these steps::

- Switch on the call station by inserting and turning the key.
- Press the move command button "Up" or "Down". The platform moves in the corresponding direction as long as the button remains pressed. If you release the button during travel, the platform stops immediately.
- The platform stops independently at the stops.
- To climb up, the platform is folded down by pressing the "Open" button on the call station. The button is held until the platform is horizontal and the barrier has opened completely.
- Switch the call station off again by turning the key to the "OFF" position and removing it.

If a dangerous situation arises while the platform is moving, stop the platform immediately by releasing the command button.

The lift can only be controlled from the stops when the platform is folded up.

5.5 Driving onto the platform

If the platform and the barrier are open, the platform can be driven on.

Always look in the direction of travel while driving.

5.6 Driving with the platform

On the control board there are two drive command buttons on each side of control board, as well as an audio alarm and an emergency stop button.

Lock the brakes of the wheelchair before driving the platform. Hold on to the handrail.

As soon as you press the driving button, the barrier closes automatically, and the access ramp swings up. After the barrier is closed and locked, the platform can move to the next landing.

Hold the drive command button until you reach the desired stop.

The platform stops automatically at the stops and the folding barrier is opened if the drive command button remains pressed.

At an intermediate stop (if any) the platform stops automatically. If you keep the travel command pressed, the barriers open. If you release the travel command and press it again, the platform travels to the next stop without opening the barriers.

If you release the drive command button while driving, the platform stops immediately.



If the platform does not stop when the drive command button is released, an emergency stop (red button) has been installed for additional safety. If this emergency stop is pressed, the system stops immediately. The emergency stop button is unlocked again by pressing it again or turning it clockwise.

5.7 Leaving the platform

The lift stops automatically at the desired stop. By constantly pressing the drive command button, the barrier opens, and the access ramp lowers. When the barrier is fully open, the drive command button must be released.

You can now leave the platform.

The platform must be folded to release the lift for other users. Thus, the call stations become active again and the lift can be sent or called to a desired location.

To prevent unauthorised use of the lift, you should always remove the key in the call stations after using the lift.

6. TROUBLESHOOTING

6.1 General

In some cases of disorders you can independently check your system for faults.

Before you start, consider the following points:

- Check what is written on the control display, if it is working.
- Visually inspect the entire installation for damage, deformations, etc.
- Check that the system is switched on.
- Check whether the main switch of the platform is switched on.
- Check whether the batteries in the call stations are empty and replace with new ones if necessary.

6.2 Error table

| Error | Cause | Action |
|---|--|--|
| The platform does not work | Batteries are empty | Supply power to the charger |
| | Main power switch is turned off | Switch on the main switch |
| | Key switch on the radio remote control is turned off | Switch on the key switch |
| | Emergency stop button is actuated | Unlock the button by pressing it again and turning it clockwise |
| | Platform is not completely closed | Close the platform |
| | Platform moved against mechanical resistance | Remove obstacle having previously driven in the opposite direction |
| Platform does not reach the intended height | The switch of the barrier release is not set correctly | Have the switch reset by the service company |
| Platform does not move upwards | The lateral contact bar on the platform side wall or the access ramp is actuated | Remove the obstruction from the sensor |
| Platform does not move down | The safety bottom under the platform is blocked / activated | Clear the safety bottom by driving up and removing the object |
| A barrier does not open | The platform does not reach the stop zone sensor completely | Have the switch reset by the service company. Check whether the contact bar/safety bottom is activated |

7. RESCUE OF A PASSENGER

If the platform gets stuck during movement the passenger can be released by moving the platform manually and raising the barrier.

Only trained persons are allowed to do this.

The handwheel is placed on the back side of the sidewall

7.1 Platform drive with handwheel

The platform can be moved with the handwheel. To do this, switch off the main power switch. place the handwheel in the motor outlet, which is on the other side of the platform sidewall.

Turn the handwheel in the direction in which the landing is reached most quickly.

Turn the handwheel until the platform stops at the landing.

7.2 Release by raising the barrier

At the landing, the barrier bar can be opened (lifted) manually as well.

The barriers can be unlocked mechanically.

To raise the barrier, place the handwheel into the hole at the top of the sidewall and turn. At the same time, the platform barrier must be lowered.



Raise the barrier only on the exit side.

8. CONTROL AND MAINTENANCE

8.1 Security checks

Pay attention to the following points regularly:

- Check that the lift does not start moving with the barriers not in place. During travel, the barriers must be closed and the ramps folded up.
- If a raised access ramp hits an obstacle, the lift must stop immediately. The connecting linkage between the sidewall and the access ramps must be in perfect condition (securely screwed on, no rope breakage).
- The barriers must not open while driving (check while driving).
- The platform must stop when reaching the landings.
- When releasing the travel command button, the platform must stop without an overrun.
- The emergency stop button must shut down the entire system when pressed.
- If an emergency call is available, it must always work.

8.2 Cleaning

Clean the unit at regular intervals to remove the dust and dirt.

Please follow the next instructions:

- The lift must always be taken out of operation before cleaning.
- Never use cleaning agents that require special ventilation.
- Do not use aggressive agents to clean plastic-coated or painted surfaces.
- Stainless steel surfaces should be treated with a specially designed cleaning agent (stainless steel care spray, slightly greasing), do not use scouring powder.
- The push buttons must never be treated with cleaning sprays or the like (sticking of the buttons is possible!). The floor should be wiped with a damp dust rag.
- Avoid wetness, especially with the operating elements (no splashing water).
- Further maintenance work may only be carried out by authorised partner companies.

9. MAINTENANCE AND INSPECTION

To ensure safe and trouble-free operation, the regular maintenance along with the regular safety checks are absolutely necessary. Appropriate maintenance and care significantly increase the service life and offers users the highest possible level of safety.

The maintenance interval is once a year.



Make a technical maintenance contract with a lift maintenance company.

These inspections must be documented in an inspection book.

9.2 Maintenance instructions

During each maintenance, the identified defects shall be recorded in the maintenance book. Any faults or indications of faults must be discussed.

Check the fastening of the bolted connections of the entire installation to the stairs.

Check smoothness of ascent and descent along the entire length of the installation, as well as stopping at the end stations several times. This is to be checked from the call stations as well as from the platform and when fully loaded.

The following points are to be checked in detail:

- Main switch (ON/OFF) on the side of the platform sidewall;
- Emergency stop on the platform;
- Up and down commands on the call stations;
- Up and down commands on the platform control board;
- Call stations key switch;
- Remove the side panel cover and check all mechanical parts for smooth running. If necessary, apply a lubricant;
- For each barrier and ramp, the setting and function of the mechanical interlock and its contact switch must be checked;
- Also check the ease of movement and the fastening of the platform motor, the ramps and the barrier mechanism;
- Check correct stopping when actuated and travel in the opposite direction when activating the safety bottom (travel OPEN) or the lateral contact bars;
- Carefully check the safety gear and its connecting elements for ease of movement and secure anchoring;
- Test the engagement of the safety gear at least once a year;
- Visual inspection of the rack and track for wear or damage;
- Grounding of the rail system;
- Visual inspection for wear;
- Check the roller guides for bearing noise and wear;

- Check fixings to wall/floor and check fixings between pipes and supports. Tighten loose bolts and screws;
- Check the connecting screws between the track parts for tightness;
- Check all mechanical switches (position switches of the platform mechanism, limit switches at the landings, emergency limit switches up and down, catch switches, etc.) for their function and sufficient play of the rollers;
- Check mechanical switches for function (test faulty switching);
 - Check the wear of the drive gear on the drive;
 - Check an adjustment and wear of the brake (holding accuracy, ease of play);
 - Check engine mounting for firm anchorage;
 - Check for unusual noises and vibrations;
 - Check the function of the emergency handwheel crank.
- Audible and visible alarms;
- If available - check the voice connection to the rescue personnel;
- Are all technical documents available (circuit diagrams, setting instructions, user instructions, etc.);
 - Is an emergency handwheel in the place.

9.3 Lubricants and operating fluids, spare parts

- Lubrication of the guide rails is not necessary;
- Lubrication of the drive gears is not required;
- Joints and sliding surfaces must be lubricated with engine oil or with suitable greases;
- The chains can be treated with a preservative to protect them from corrosion;



Only the original spare parts from manufacturer may be used. If other products are used, the declaration of conformity loses its validity.

10. Dismantling and disposal

Dismantling work on the entire system may only be carried out by the manufacturer or its authorised partner companies. The exclusion of liability for consequential damage of any kind is effected.

According to the European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in national law, used electrical equipment must be collected separately and recycled in an environmentally sound manner.

12. DECLARATION OF CONFORMITY

13. DUTIES OF PLATFORM LIFT OPERATOR



The lift may only be put into operation after acceptance by a civil technical expert and presentation of a defect-free expert report. Otherwise, safe operation cannot be guaranteed.

Always make sure that an instructed person is available. The user must be able to reach this person easily in a case of an emergency.

The emergency call system is to be checked regularly.

If outside help is called in, access to support personnel must be provided.

The system operator is obliged to ensure adequate maintenance of the system. It is therefore of particular importance that a scheduled maintenance service is established with a maintenance company before the platform lift is put into operation.

Maintenance must be entrusted to competent persons to ensure the comprehensive safety of the platform lift. General maintenance instructions can be found in the relevant chapter of this operator's manual.

The use of the system must be strictly limited to the specified purpose.

The user manual shall be kept in an easily accessible place.

Irregularities during operation or emergency situations must be reported immediately to the maintenance company. In addition, the maintenance company must be informed of all changes to the building and the system that could affect operation.

User manual
Stair lift GRB60

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