



# ALPHA

USER HANDBOOK

## INTRODUCTION

Congratulations for your curved stairlifts type Alpha. Before starting to use the stairlift, please read the operating instructions carefully in order to assure a safe and reliable operation of your stairlift.

### Please observe the following guidelines

Ensure that only qualified stairlift installers install and service the stairlift. Under no circumstances is anyone other than a qualified installer allowed to install, adjust, or service any mechanical or electrical device on this equipment. Failure to follow this warning can result in safety system compromises or defeat; this can result in serious injury or death. Lehner Liftechnik GmbH accepts no liability for property damage, warranty claims or personal injury, in this circumstance.

Passenger safety is the result of countless details in the equipment's design, manufacture, and installation. After installation, reliable operation and continual safe operation requires regular service and inspection at least once per year, or more frequently where usage, environment, or local jurisdiction requires. As the owner, you are responsible for ensuring that regular service and inspections occur in a timely manner.

Refer to this manual for specifications, operating instructions and maintenance of your stairlift. Upon completion of installation, the dealer must provide you with the information below and ensure it is recorded in this manual. In addition, either the dealer or you must keep any service and/or maintenance records in the Maintenance Record section of this manual.

The chairlift may only be used by a person who is familiar with its use. People not meeting this requirement (for example children) may use the seat under the supervision of a competent person who takes the responsibility. Keep the keys for the seat in a secure place and do not leave the key in the switch on the armrest or on the hall calls when not in use.

Take the following precautions:

- The Alpha stairlift is intended solely for transporting one person sitting on the seat.
- Maximum loading capacity is 130kg
- Use the seatbelt while driving
- Before driving, make sure you sit safely on the chair and the swivel mechanism is securely engaged.
- Watch the driveway for obstacles while driving
- Do not drive standing on the seat
- Do not let children play on the seat or in the vicinity when using it.
- The seat is not designed to transport cargo.
- Protect the seat against misuse by unauthorized persons.
- To prevent accidents, adhere strictly to the instructions in this manual and keep clear of moving parts at all times.
- Ensure that only qualified personnel perform maintenance.
- Before calling or sending the lift make sure the driveway is clear and nobody is sitting on the chairlift.
- Do not use the lift in case of fire!

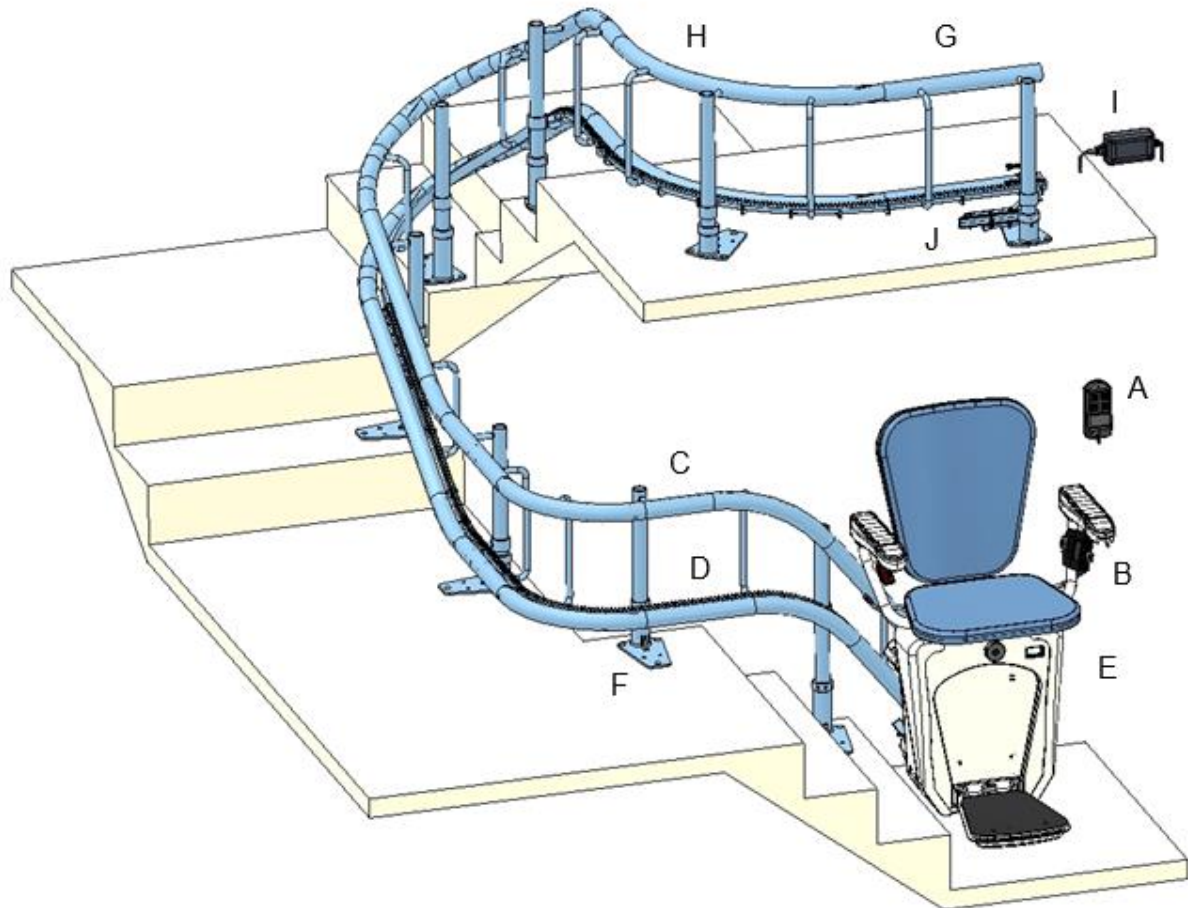
The lift is equipped with the following safety features:

- Drive with self-locking gearbox and motor brake
- Overspeed governor
- Safety contact edges on the sides of the drive unit and under the footrest
- Folding switch for armrest
- A two-position key switch located at the underside of the armrest.
- Constant push controls - the lift always stops if the control joystick or the button on the hall call is released.

## CONTENTS

|      |   |    |
|------|---|----|
| 1    | Installation schematic .....  | 1  |
| 2    | Technical parameters .....  | 2  |
| 3    | Seat function overview .....  | 3  |
| 4    | Controls .....  | 4  |
| 4.1  | Standard controls .....   | 4  |
| 4.2  | Hall calls in case of automatic swivel seat .....                     | 5  |
| 5    | Using the chairlift .....   | 6  |
| 5.1  | Sending and calling the chairlift from the hall calls .....           | 7  |
| 5.2  | Seat rotation with manual swivel seat .....                           | 8  |
| 5.3  | Seat rotation with automatic swivel seat .....                        | 9  |
| 5.4  | Driving through an intermediate stop with automatic swivel seat ..... | 9  |
| 6    | Folding rail .....  | 10 |
| 6.1  | Driving down from the upper landing .....                             | 10 |
| 6.2  | Driving up from the lower landing .....                               | 10 |
| 6.3  | Emergency release of folding rail .....                               | 11 |
| 7    | Fault detection and trouble shooting .....                            | 12 |
| 8    | Emergency drive wheel .....   | 13 |
| 9    | Charging the battery .....  | 14 |
| 10   | Maintenance .....   | 14 |
| 10.1 | Cleaning .....  | 15 |
| 11   | Attachments .....   | 16 |
| 11.1 | Maintenance Record .....  | 16 |

## 1 INSTALLATION SCHEMATIC



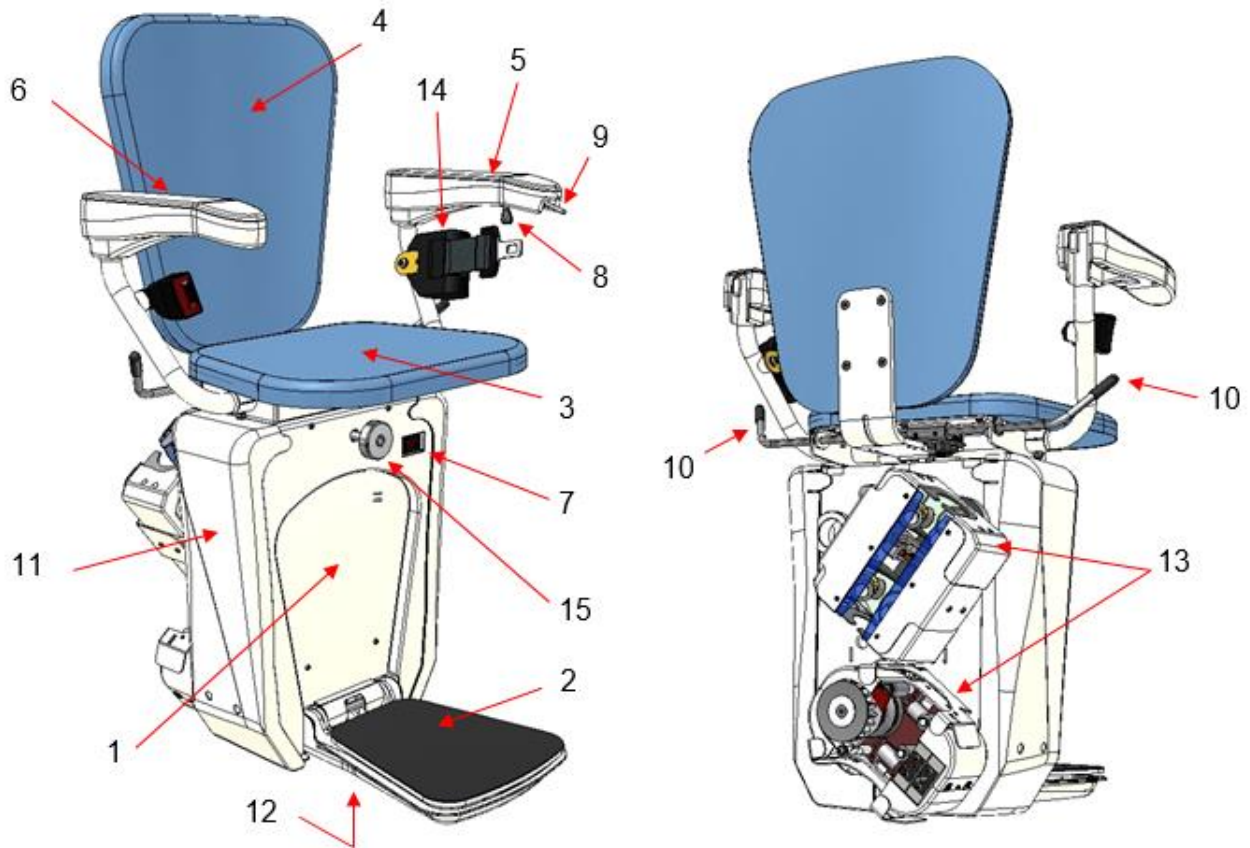
- |    |                      |    |                          |
|----|----------------------|----|--------------------------|
| A) | Hall call            | F) | Pillar base plate        |
| B) | Seat belt            | G) | Upper stop               |
| C) | Upper tube           | H) | Horizontal parking curve |
| D) | Lower tube with rack | I) | Charger                  |
| E) | Lower stop           | J) | Upper charging point     |

## 2 TECHNICAL PARAMETERS

|                        |   |
|------------------------|---|
| Applications           | Residential or commercial   |
| Standard Load capacity | 130 kg (optional 145 kg)  |
| Seat size              | 460 x 326 mm  |
| Travel speed           | 0.11 m/s on straight sections<br>0.06 m/s at bends                          |
| Range of incline       | 0° to 52°   |
| Drive system           | Rack and pinion   |
| Operator controls      | Constant-pressure type (joystick switch and remote control call/send units) |
| Seat belt              | Retractable   |
| Motor                  | 0,37kW, 24 VDC  |
| Charging               | 1x230V 50Hz AC or 1x110V 60Hz AC  |
| Fold-up width          | 37 cm   |
| Fold-out width         | 64.5 cm   |
| Rail                   | Steel   |
| Warranty               | 24 months on parts, ask dealer for details                                  |
| Noise                  | 0° to 52°   |
| Operation temperature  | -10°C to +40°C  |
| Power                  | 2 batteries 12V/9Ah, charging at landing                                    |
| Seat height            | 496 mm from footrest  |



### 3 SEAT FUNCTION OVERVIEW

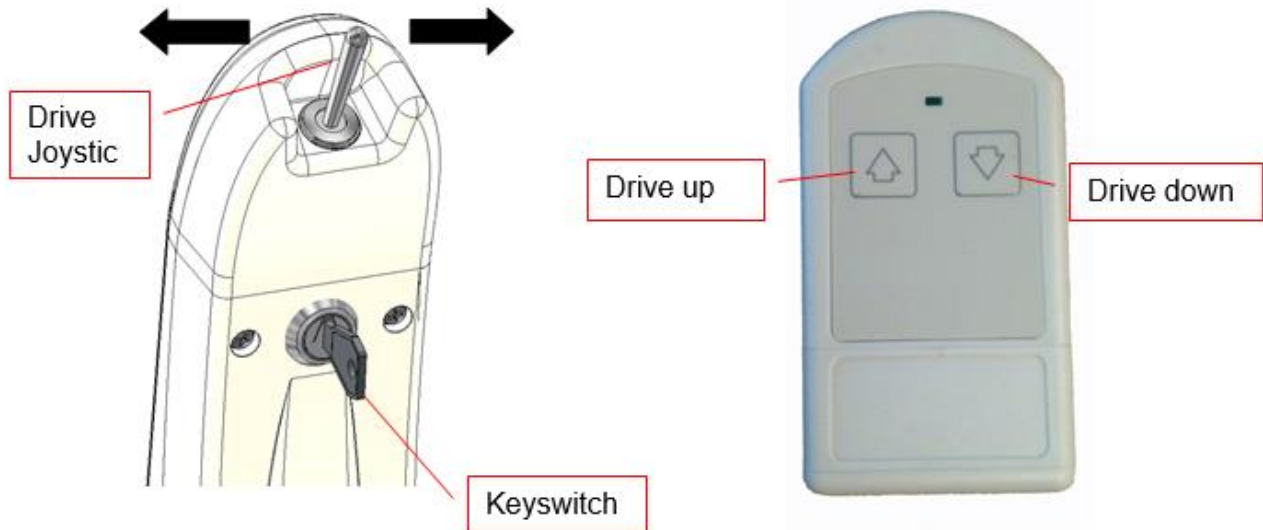


- |                          |                         |
|--------------------------|-------------------------|
| 1. Front cover           | 9. Joystick in armrest  |
| 2. Footrest              | 10. Swivel lever        |
| 3. Folding seat          | 11. Side cover          |
| 4. Backrest              | 12. Footrest cover      |
| 5. Left armrest          | 13. Trolley covers      |
| 6. Right armrest         | 14. Seatbelt            |
| 7. Main power switch     | 15. Emergency handwheel |
| 8. Key switch in armrest |                         |

## 4 CONTROLS

### 4.1 Standard controls

Control of the seat can be performed using the joystick direction located in the armrest or using one of the hall call remotes, located at each stop position.

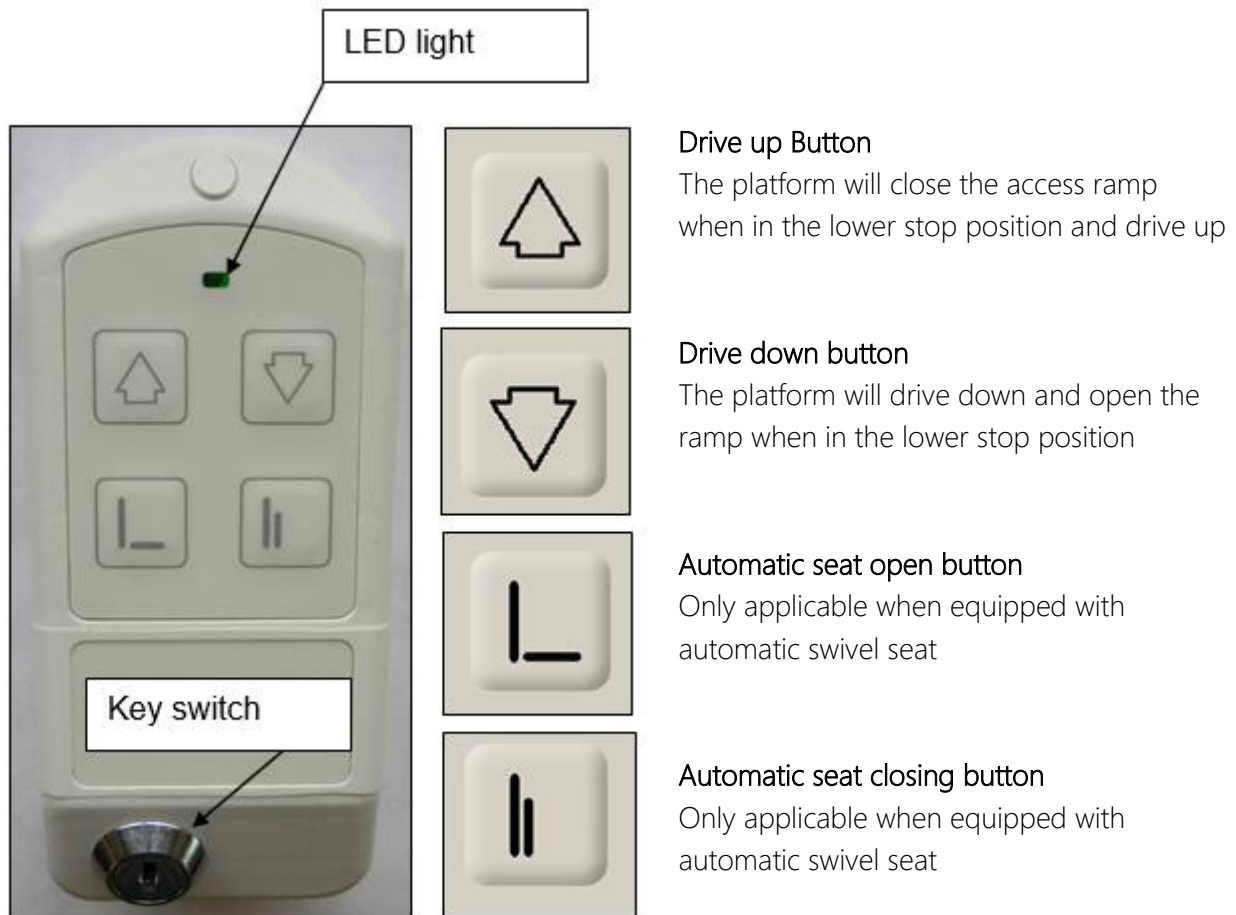


The keyswitch on the handset must be on in order to use the drive joystick. Also, the keyswitch in the hall call must be on in order to call or send the chairlift.

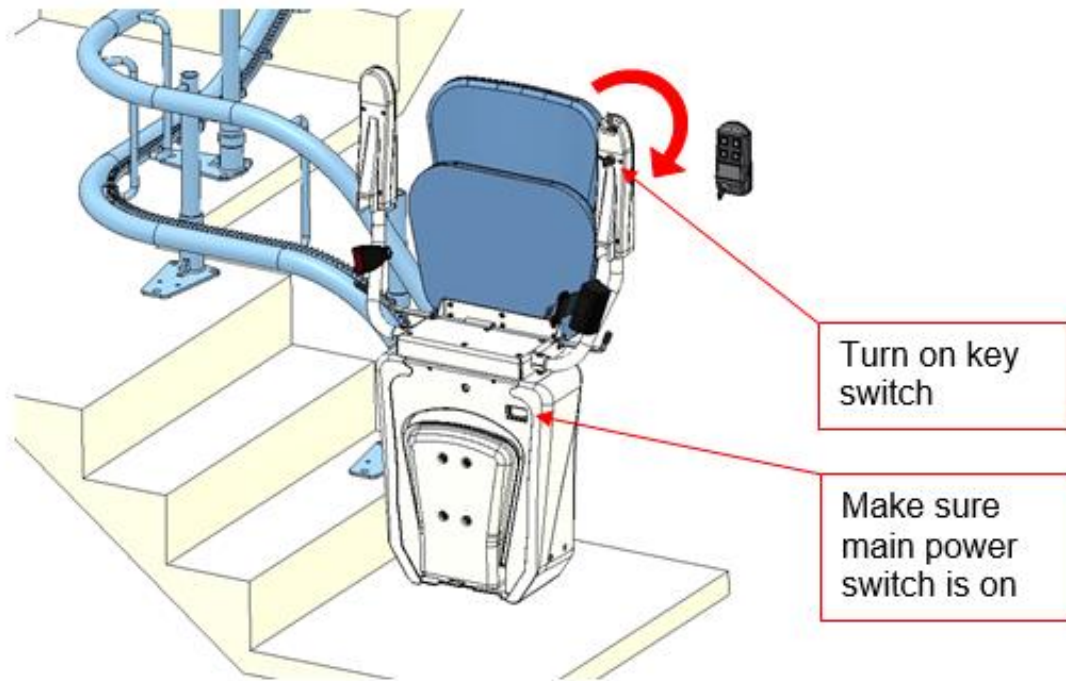


## 4.2 Hall calls in case of automatic swivel seat

The radio-controlled external call stations are used to rotate the swivel seat as well as to drive the chairlift up and down between the landing stations.



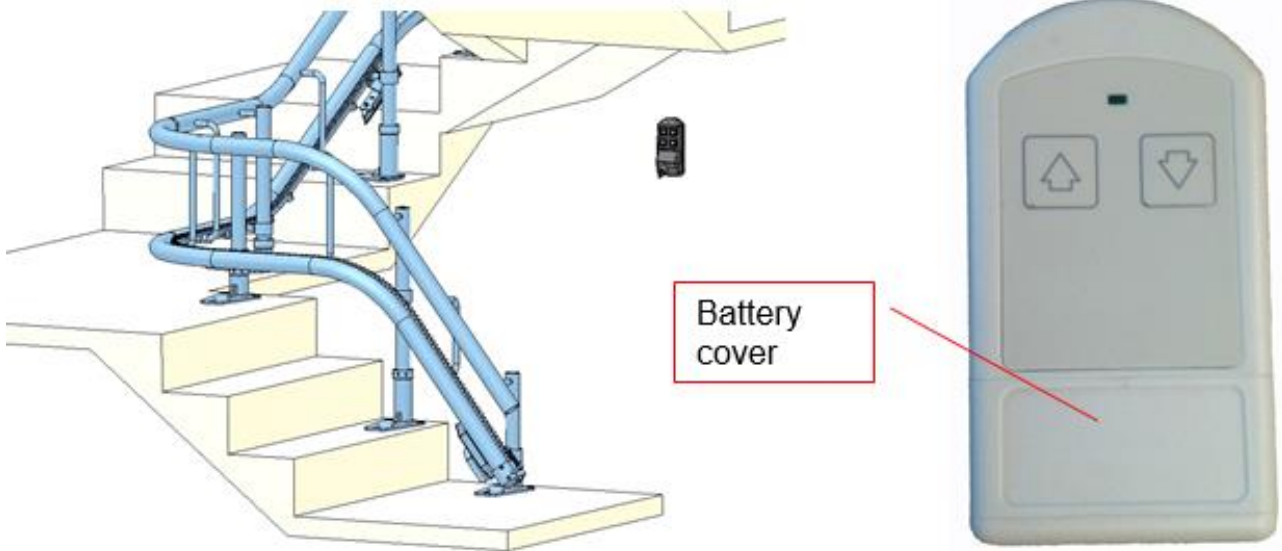
## 5 USING THE CHAIRLIFT



- 1) When unit is parked and folded up make sure the keyswitch and main power switch are on
- 2) Fold down the footrest, the folding seat and the armrest
- 3) Sit on the chairlift and use the seatbelt
- 4) Use the joystick on the armrest by pushing it in the driving direction – there is a 3 second security time delay between the activation of the joystick and the start of the lift
- 5) The lift will drive as long as the joystick switch is being pressed and stops after releasing it or at the landing stop station.
- 6) Always watch in the driving direction for any obstacles while driving!



## 5.1 Sending and calling the chairlift from the hall calls



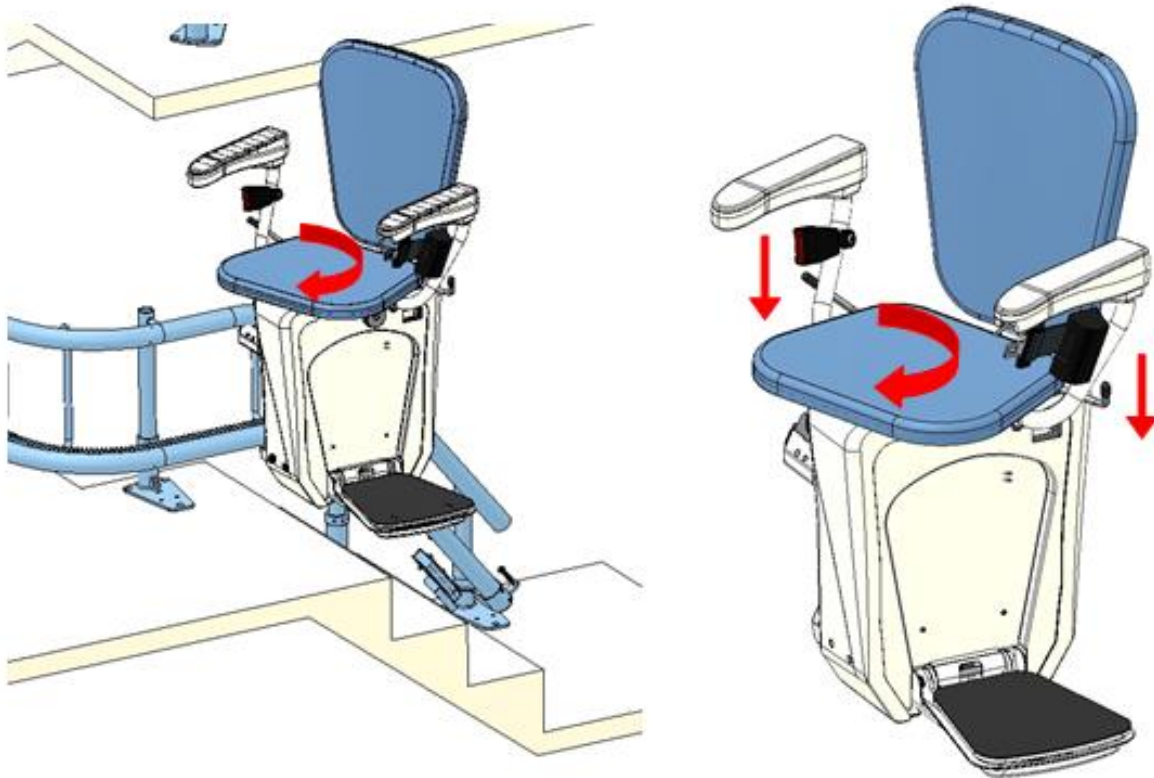
- 1) Make sure that the seat is not in use by someone else.
- 2) Call or send the seat by pressing the appropriate direction to the hall call.
- 3) The lift will drive as long as the directional button is being pressed and stops after releasing the button or when arriving in the landing station.

Hall calls are usually supplied with two 1.5V AAA batteries. Battery lifetime is approximately one year, so the battery can be replaced during regular service visits (1 maintenance visit minimum every 12 months).

Battery function can be checked at any time. Each hall call has a green LED which flashes after being activated. If the LED indicator is off, the battery must be replaced.

## 5.2 Seat rotation with manual swivel seat

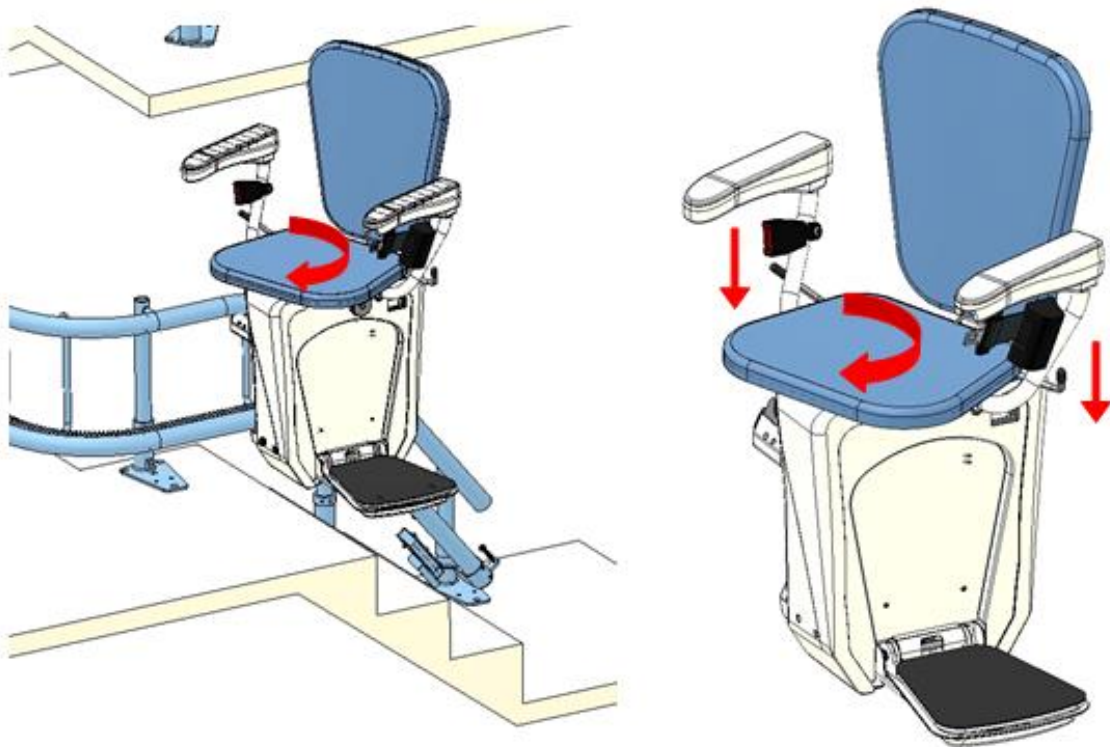
At the upper landing the seat can be rotated for easier entry and exit.



- 1) Push the lever to unlock the rotation (10) on the sides of the seat to its lowest possible position.
- 2) Turn the seat towards the upper side while still sitting on the seat.
- 3) There are 5 different swivel positions at 0°, 20°, 45°, 70° and 90°. Release the swivel lever when the chair is in your desired position and make sure the swivel mechanism safely engages again at this position by pushing the lever back up into its original position. Then the seat should be locked at this position.
- 4) Carefully get out of the seat.
- 5) Turn the seat back to the drive position and pull the lever upwards making sure that it latches correctly.
- 6) If required you now can raise up again the footrest, folding seat and armrest in order to leave maximum clearance on the stairway or to send down the lift into its lower stop position.
- 7) Remove the keys from the armrest to prevent unintended use.

### 5.3 Seat rotation with automatic swivel seat

At the upper landing the seat can be rotated for easier entry and exit.



- 1) When driving upwards keep pushing the joystick in upward drive direction, after short time delay, the seat will start to rotate. Keep pressing the joystick until the seat has fully rotated.
- 2) Carefully get out of the seat.
- 3) Turn the seat back to the drive position by using the seat closing function on the external hall call station
- 4) If required you now can raise up again the footrest, folding seat and armrest in order to leave maximum clearance on the stairway or to send down the lift into its lower stop position.

### 5.4 Driving through an intermediate stop with automatic swivel seat

When driving into an intermediate stop position with an automatic swivel seat, the seat will stop by itself. When you keep pressing the upwards button the seat will start to rotate. However, if you do not want to get out at this position, fully release the joystick for 1 second as soon as the lift stops in the landing, and then the joystick press again into the desired driving direction. In this way the chair will continue driving without the seat starting to rotate.

## 6 FOLDING RAIL

In case the unit is equipped with a folding rail, please read the following points:

- Before using the folding rail, please make sure the key switch is always at "ON position" placed at the control box.
- The folding rail is working with the joystick on the carriage or with an additionally hall call.

### 6.1 Driving down from the upper landing

- If the user is sitting on the carriage and driving down from the upper landing, the carriage will stop automatically at the loading point before the folding rail. If the user keeps pressing driving down on the joystick, the folding rail will unfold completely, and the carriage will move in lower landing afterwards.
- The carriage is on the upper landing and gets called per hall call from the lower landing by pressing the down button. The carriage will start moving and stop at the loading point before the folding rail. Now, the folding rail can be unfold by pressing the unfold button on the radio control of the folding rail. After the folding rail is unfolded completely, the carriage can be moved in lower stop by pressing the down button on the hall call for the carriage.

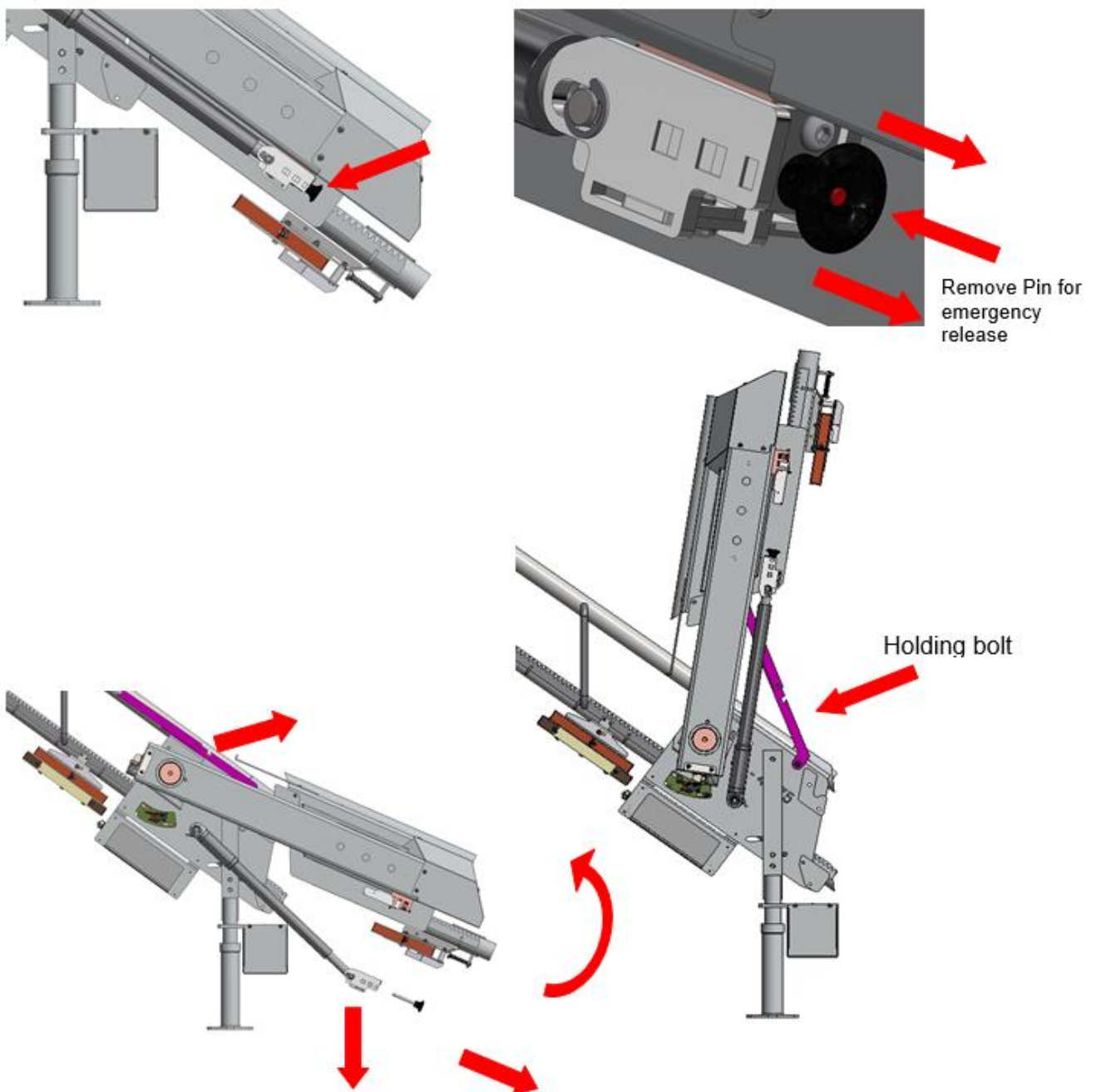
### 6.2 Driving up from the lower landing

- If the user is sitting on the carriage and driving up from the lower landing, the carriage will stop automatically on loading point after folding rail. If the user keeps pressing driving up on the joystick, the folding rail will fold up completely and the carriage will continue moving up afterwards.
- The lift can be also moved to the loading point with the hall calls. The carriage can be moved upwards by pressing the up button on the hall call and will stop automatically at the loading point before the folding rail. Now the folding rail can be folded completely by pressing the fold button on the radio control for the folding rail. After the folding rail is folded completely, the carriage can be parked at the loading point or drive upwards to the upper landing with the hall calls.



### 6.3 Emergency release of folding rail

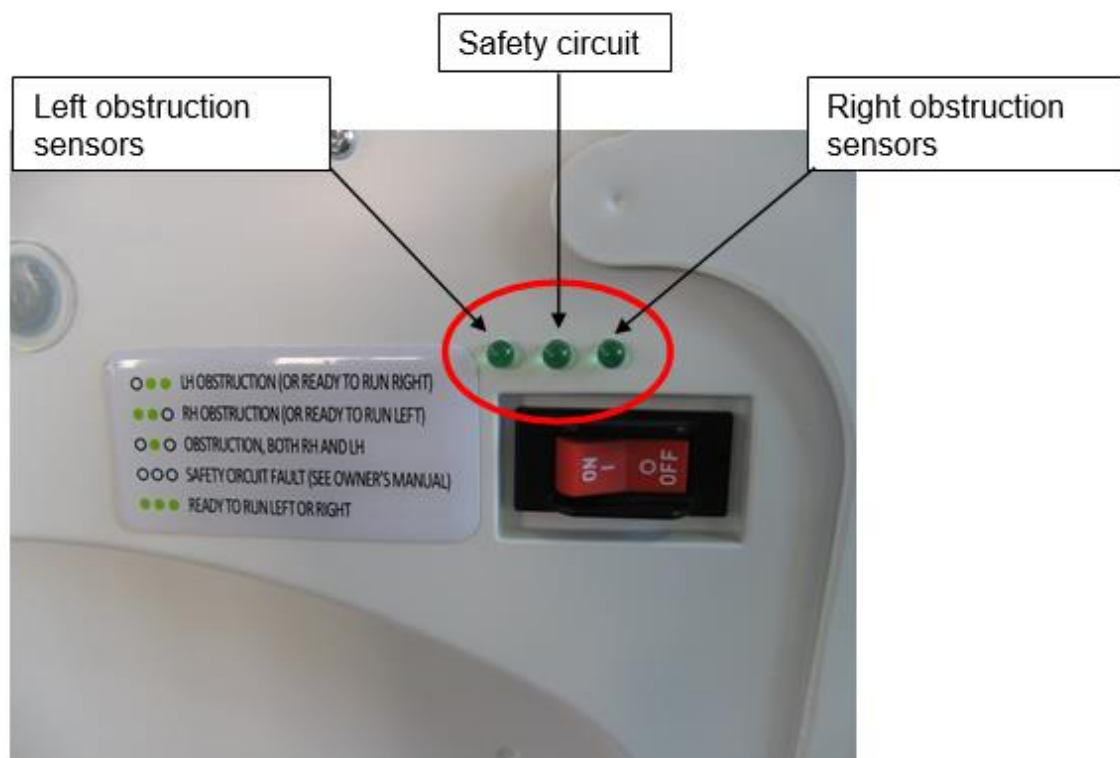
- In case of a technical failure, the folding rail can be folded and unfolded manually. It is necessary to release the black pin by pressing the red tip. Attention: The actuator is not connected with the rail anymore and will fall down immediately!  
After the pin is removed the rail can be fold and unfold by hand.  
To leave the rail in fold position, it is necessary to bring the holding bolt in the correct position.



## 7 FAULT DETECTION AND TROUBLE SHOOTING

The lift is equipped with a number of electrical and mechanical safety features. If the lift is not working, check the following points:

Next to the main power switch are 3 LEDs. The left and the right LED indicate the directional obstruction sensors on the drive unit and trolleys. The middle LED indicates the safety circuit. If all 3 LEDs are turned off the safety circuit is open.



The safety circuit consists of the following switches:

- Overspeed governor switch S10
- Seat rotation switch SR2
- Ultimate limit switch S22
- Handwheel switch SA5

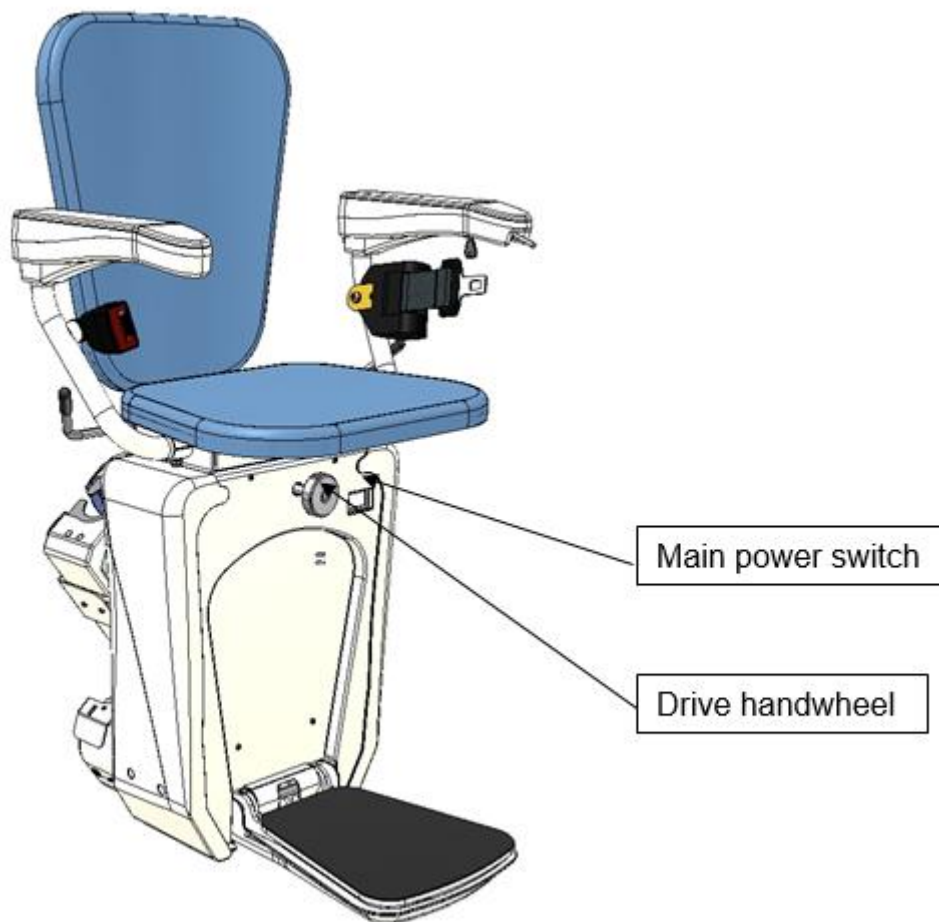
The directional obstruction sensors consist of the following switches (left/right):

- Upper trolley S13/S12
- Lower trolley S27/S28
- Lateral drive unit SK-1/SK-2
- Footrest (directional) EK-R/EK-L
- Footrest and underside of drive unit (sensitive only in down direction) S17

## 8 EMERGENCY DRIVE WHEEL

In case the chairlift stops working on the driveway the unit can be moved by turning the emergency handwheel. The handwheel has to be entered on the front of the drive unit into a hole next to the main power switch. Before using the handwheel turn off the main power switch.

The handwheel has to be pushed into the hole with a certain force and can then be turned in the desired direction. The movement of the unit will be slow and the lift should be moved to the nearest acceptable position.



## 9 CHARGING THE BATTERY

The two 12V batteries that power the chairlift are charged at each landing station using the AC charger. The seat must therefore always park in one of the landing stations.

The seat is equipped with the following audio signals

- If the seat stops outside the station and thus is not charging, after 5 seconds every second a short beeping sound will appear. Take the platform to some of the landing stations so it can charge. The acoustic signal should then stop. If not check if the charger is plugged in and there is 24V between the charging plate and the rack on the rail. If the problem persists, please contact the installing company.
- If the battery capacity is low or insufficient for further trouble-free operation every 2.5 seconds a long beep will appear during driving of the chairlift. In this case park the lift in the landing station for some time in order the batteries can recharge.

## 10 MAINTENANCE

Regular maintenance of the entire stairlift is particularly important. The minimum inspection intervals (also with minimal frequency of usage) are:

- 1st service inspection after about 6 months after commissioning.
- Additional inspections depending on usage. We recommend inspection every 6 month and at least every 12 months.
- It is very important that the rack of the rail is well lubricated with the special grease that is delivered with the lift. The lubrication intervals depend on the intensity of use. We recommend to check lubrication all 6 month.

Check regularly, at least once a week following points on your seat:

- The seat should not start if the armrest with the operation is in the raised position.
- The lift should not start if the seat is not in the 0° rotation position.
- Check functions of all contact safety covers on trolleys, footrest and on the side of the carriage. These covers must stop the lift when being pushed in the driving direction.
- Check all visible parts for damage or deformation.
- If you release the joystick or the push button the lift must immediately stop.
- Regularly clean the rails form dust and other dirt.
- Keep the area around the rails and the chair travel way free of any obstacles.

## 10.1 Cleaning

Before cleaning you must always turn off the main power switch. To clean the whole device, use a damp cloth and ordinary non-abrasive household cleaners. For cleaning the upholstery material of the seat and the backrest also use a damp cloth to remove dirt.

