INSTALLATION INSTRUCTIONS

GANSER LIFTSYSTEME

GTLE

ATTENTION

Every specialist company that installs a stairlift must have read these installation instructions and understood the contents before the platform stairlift is put into operation. The contents of this documentation do not constitute a basis for rights of any kind.

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1. Preface

These installation instructions are intended to serve as a guideline for the installation of the GTLE platform stairlift from Ganser Liftsysteme. The installation instructions are intended for instructed and authorised specialist personnel of Ganser Liftsysteme or authorised partner companies.

In addition to the installation instructions, documents such as installation drawings, assembly drawings, parts lists, circuit and terminal diagrams as well as information on the forces that occur must also be observed. Ganser Liftsysteme reserves the right to make product changes due to technical developments.

1.1. Safety notes

- Modification of the lift or deviation from the prescribed procedure may affect the function and safety of the lift. Ganser Liftsysteme accepts no liability for any operational disruptions or a lack of safety that may arise as a result.
- Put up signs and secure a work area where the installation will be carried out.
- When using chemicals, always read and follow the manufacturer's instructions and warnings on the package.
- Work on electrical equipment may only be carried out by appropriately trained and authorised personnel (electricians).
- Always switch off the power supply, disconnect it and secure it against being switched on again when working on electrical components otherwise there is a risk of the lift to suddenly start moving.

1.2. General notes on installation

- Installation may only be carried out by instructed and authorised Ganser Liftsysteme personnel or by authorised partner companies.
- The sufficient static load capacity of the masonry or the substrate must be ensured. Ganser Liftsysteme accepts no liability whatsoever in this respect.
- During installation, the wall structure of the load-bearing wall must be taken into account and the installation material (dowels, anchors, etc.) must be selected according to the forces that occur (pull-out forces), see installation documents. Furthermore, attention must be paid to local regulations.
- It must comply with all the dimensional specifications in the installation drawing.

1.3. Requirements for the fitters

- Fitters must behave responsibly and ensure that the safety instructions and all health and safety regulations applicable to the country and workplace where the installation is carried out are observed.
- Persons installing this lift system must be able to read and understand all installation-related documents.

1.4. Personal protective equipment

We recommend wearing suitable personal protective equipment during installation to minimise the risk of injury.

2. Recommended tools

We recommend the following tools for a quick and easy installation:

Measuring tools:	Tape measure
	Digital spirit level approx. 1 m
	Spirit level approx. 2 m
	Set of screwdrivers
	Set of pliers
	Set of spanners
	Set of socket spanners
Drilling tool:	Cordless screwdriver incl. core drill and tap
	Impact drill incl. drill
Cleaning agents:	Vacuum cleaner
	Cleaning cloth
	Cleaning spray
Electric tool:	Retractable spring
	Multi-meter
Other aids:	Screw clamp
	Flashlight
	Angle grinder
	Cable drum
	Lashing strap
	Screw clamp
Special tool	GTLE installation aid

Table 1: Recommended installation tool

3. Unpacking the lift system

3.1. Checking the delivered components

Check all delivered packaging units for any transport damage. If you notice any visible damage, document it by taking a picture. Send this documentation immediately to Ganser Liftsysteme and the respective forwarding agent.

Open the wooden crates and track bundle and use the delivery note to check that the delivery is complete and free from defects. If you notice any discrepancies, document these, include a photograph, and send the document to Ganser Liftsysteme immediately.

Before you start installation, check the Ganser Liftsysteme installation drawing again with the dimensions on site.

3.2. Storage of the lift system

If installation is to be carried out at a later date, please observe the following storage conditions:

- Do not store outdoors
- Protect lift system from moisture and extreme temperature extremes
- Store the lift system at an appropriate humidity level
- Ensure storage in a corrosion-proof manner

3.3. Handling of packaging materials

All packaging materials are selected with environmental compatibility in mind and can be recycled. The packaging material must be disposed of in accordance with local regulations.

4. Preparation for installation

4.1. Checking possible on-site measures

In order to install and operate the stairlift without difficulty, it may be necessary to carry out certain on-site preparation works (e.g.: making a strip foundation when installing columns, removing a handrail, electrical installation work, removing potential interfering contours, etc.).

4.2. Selection of the fastening material

The choice of fastening elements should be determined during the inspection of the walls and floor. The fastening material to be used is determined by the installation drawings, the wall construction and the specified forces on the data sheets. A standard configuration of fastening materials is included in the scope of delivery, whereby impact anchors, approved adhesive material, etc. must be provided by the respective installation company.

Ganser Liftsysteme is not liable for any errors in the selection of suitable installation material. In case of doubt, consult the supplier.

4.3. Sorting the track parts

For longer systems, the rail is divided into several sections. The individual track sections are supplied with fastening lugs that connect the upper and lower track sections. There are assembly sleeves at the end of the individual track sections, which must be screwed together to complete the form-fitting connection.

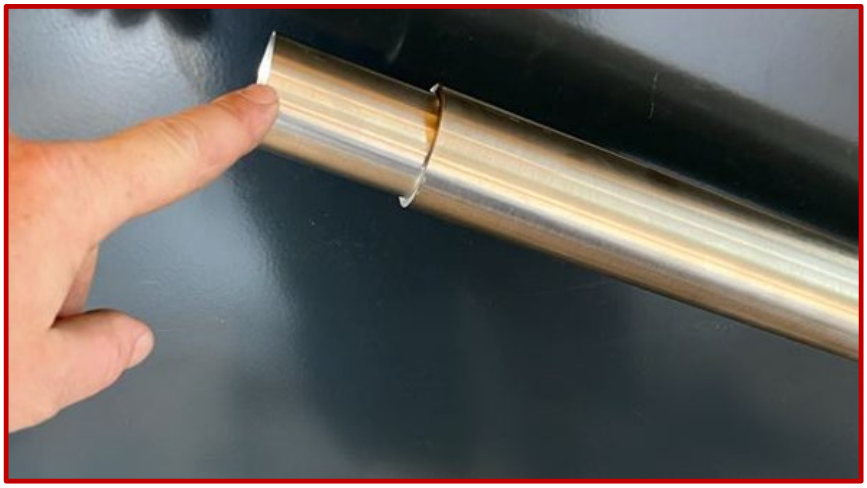


Figure 1: Connecting sleeve of track parts

4.4. Handling recommendations - tools required for track installation

Figure 2: Handling recommendation - tools for track installation

Recommendation 1: We recommend setting a variable column or a screw clamp at the lower end of the track to adjust the track slope and set it to the necessary height.

Recommendation 2: With a digital spirit level, the inclination of the track can be precisely set according to technical specifications.

Recommendation 3: Before the track is installed, the specified distance between the two track rails must be checked with a tape measure and readjusted if necessary.

5. Installing the track

5.1. Installing the track on the wall

Drill a hole at the marked mounting point and screw the track lightly to the wall using your chosen mounting hardware.

NOTE:
Please be sure to read the comments on the selection of suitable fastening material under point 4.2.!

The next step is to adjust the inclination of the track to the angle according to the installation drawing using a digital spirit level.

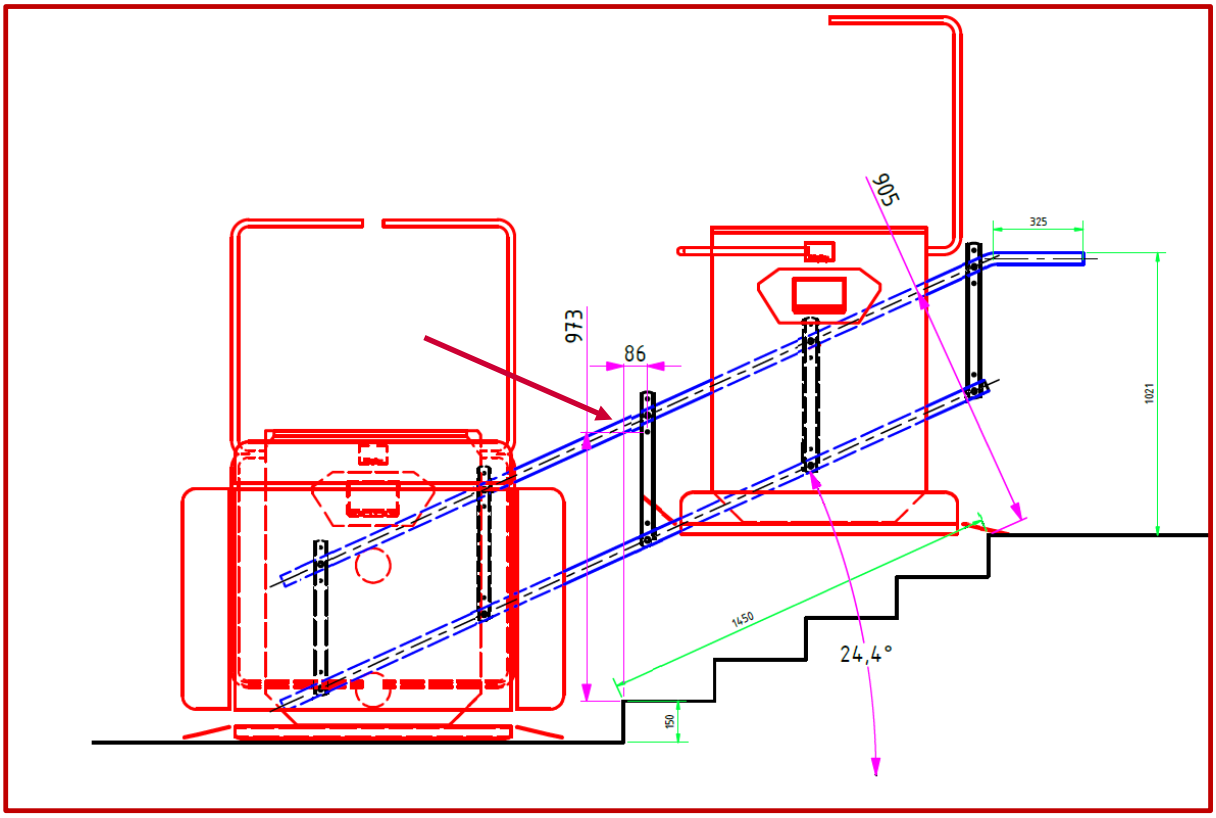


Figure 3: Fitting the first track points

Please check the dimension from the edge of the step to the bottom profile and note that this dimension must not be reached noticeably, otherwise there is a risk of collision between the stairlift and the edge of the step. Finally, check that the fastening lugs between the rack and the handrail are vertical.

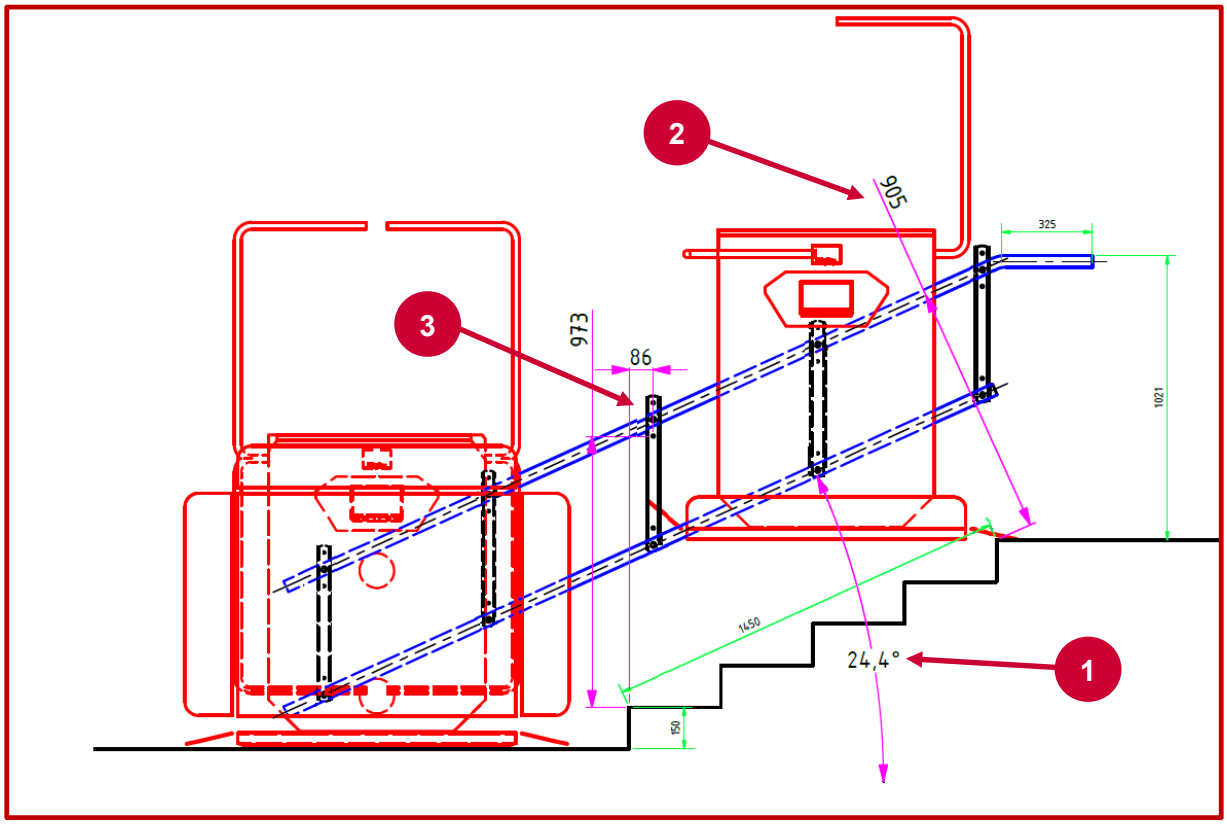


Figure 4: Checking the track

Condition 1: The angle of the track must correspond exactly to the installation drawing.
Condition 2: The distance between the rack and the edge of the step must not be reached, otherwise there is a risk of collision with the platform stairlift.
Condition 3: Fastening lugs must be vertical.

If all 3 conditions are met, mount the fastening lugs.

If a second track section is to be fitted, it must be pushed onto the lower/upper section, screwed in place and fitted using the fastening lugs analogously to the previous steps.

5.2. Fitting the track to columns

Take the columns out of the packaging and sort them in order around the stairs. All our columns have a label on the underside of the foot plate. Position the column at the point indicated in the installation drawing.

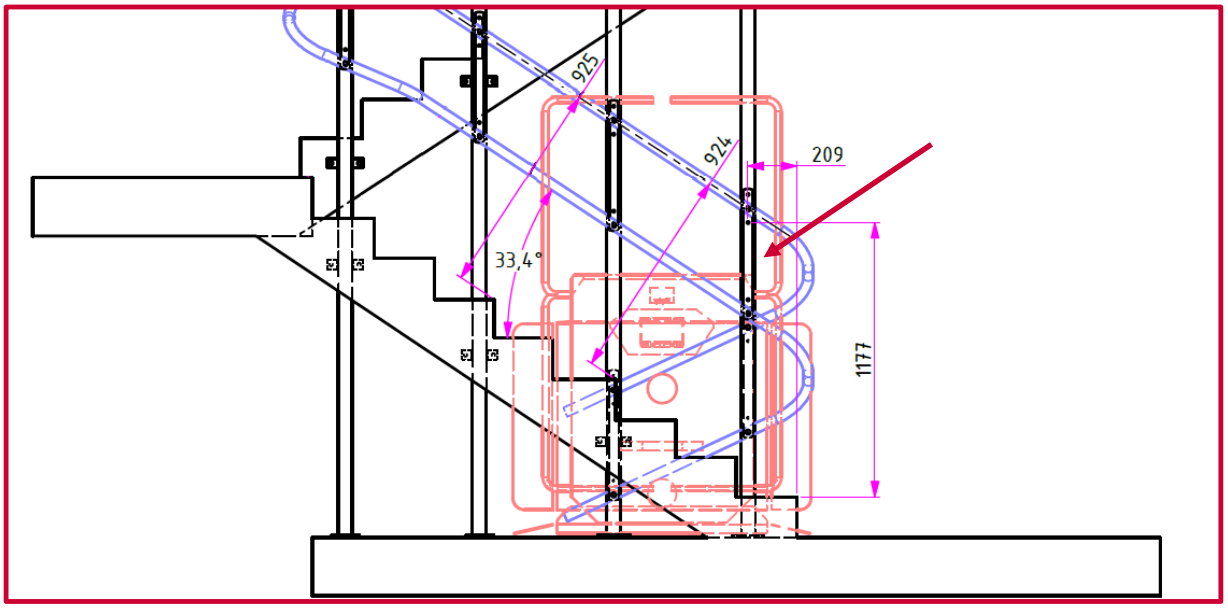


Figure 5: Fitting the track to the columns

Check the position (distance from the wall, distance from the edge of the step to the centre of the column, vertical alignment).

If this corresponds to the installation drawing, you can start attaching the first column. Be sure to select suitable fasteners for screwing the base plate to the substrate. Screw the foot plate in place at all four holes using your chosen fasteners.

Figure 6: Aligning the columns

Cut the M8 threads for the track in the fitted column. The position of the hole can also be found in the installation drawing. Using the M8 screws supplied, screw the first hole of the fastening lug to the already mounted column. Set the intended inclination of the track using a digital spirit level and a variable column or screw clamp according to the installation drawing.

Using a screw clamp, clamp another column at the end of the track tube onto the matching fastening lug and check the following three conditions again:

Condition 1: The angle of the track must correspond exactly to the installation drawing
Condition 2: The distance between the rack and the edge of the step must not be reduced, as otherwise there is a risk of collision with the platform stairlift.
Condition 3: Fastening lugs must be vertical

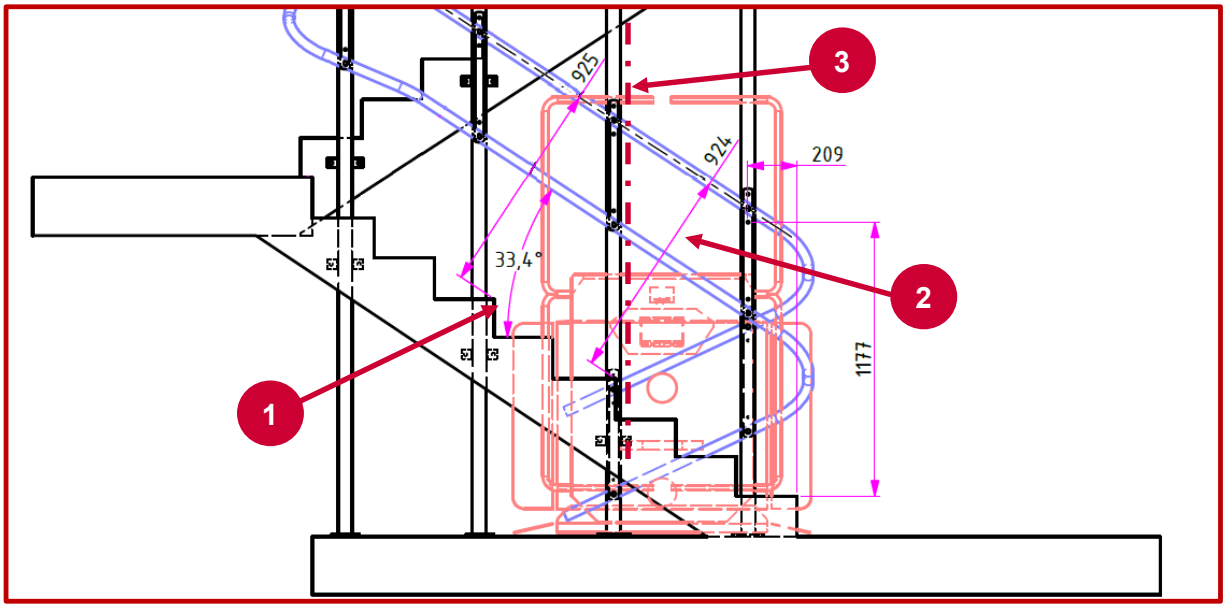


Figure 7: Track alignment plan

The positioning of the other columns is automatically determined by the position of the fastening lugs. Make sure that all fastening lugs are centred on the columns and vertically aligned.

Screw all other columns to the substrate or to the individual fastening lugs.

WARNING:
When installing columns, there is a possibility of a person entering the danger zone of the stairlift on the track side during travel, the person commissioning the system must ensure that the track is adequately covered. The track panelling can also be used as fall protection. It is at the commissioning engineer's own discretion whether there is a need for a track panelling. The track panelling is available as an optional accessory if it is not in the scope of delivery.

6. Hooking the lift system into the track

6.1. Installation options for the stairlift

There are 2 ways to insert the GTLE into the rail:

- Insert the stairlift at the top of the rail using the GTLE installation aid
- Insert the stairlift in the rail run, one rail section must be removed again for this.

6.2. Installation aid for the stairlift

With the help of an installation aid, the lift can be placed in the track without increased effort.

1) GTLE installation aid
2) Place the installation aid on the track.
3) Carefully slide the installation aid off the track and tighten the 4 Allen screws so that the angle of the installation aid cannot change during the installation of the lift.
4) Slide the installation aid into the drive unit of the stairlift. Make sure that the installation aid is positioned centrally and secure it against slipping by means of the safety pin provided.

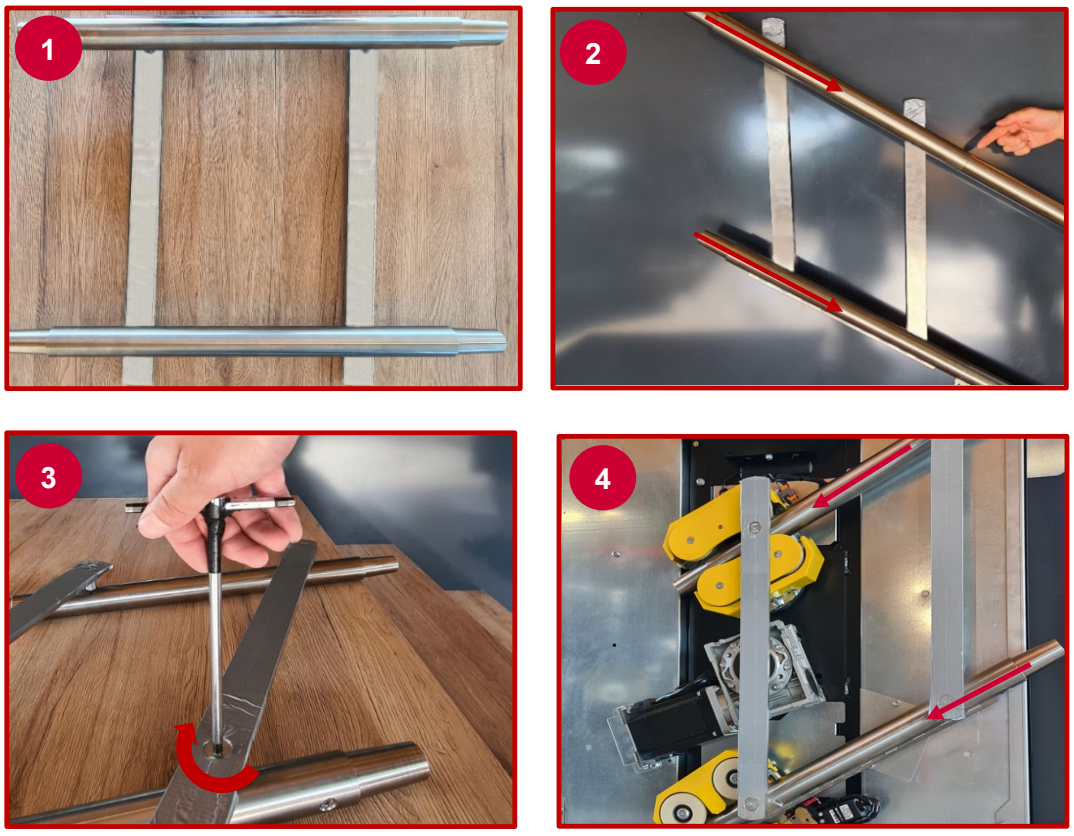


Figure 8: GTLE installation aid

5) Carry the carriage with the installation aid to the desired suspension point. The carriage can best be handled on the underside of the platform or on the barriers.

Figure 9: Stairlift carrying points

6) Turn the main switch of the lift 90° clockwise to ON. Then press the switch to the right of the main switch to activate the lift system.

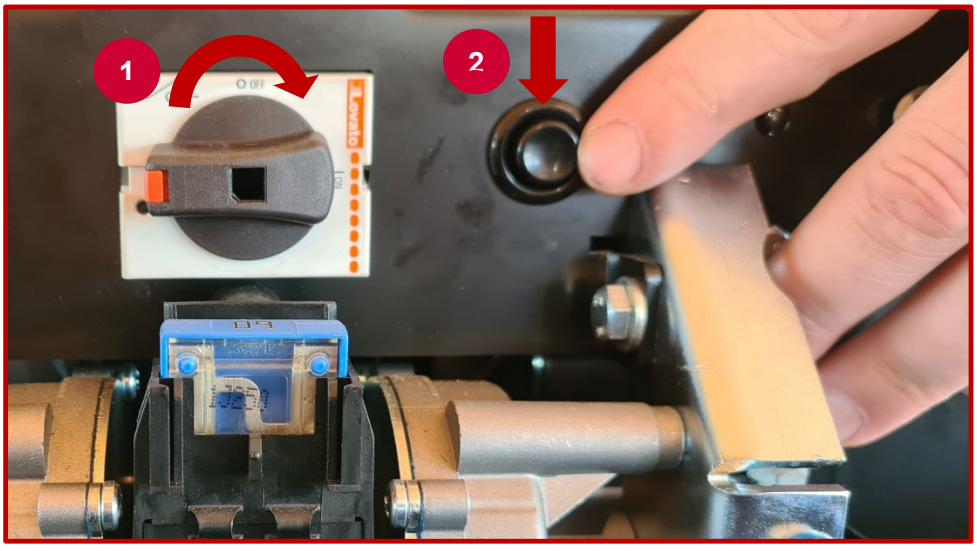


Figure 10: activating the lift system

7) Now thread the lift system onto the rail, making sure that the GTLE installation aid is fully seated in the track guide. Now carefully remove the locking pin on the GTLE installation aid and push the lift until the drive wheel contacts the rack on the track. Then press DOWN on an external hand-held remote control to move the lift fully onto the rail. ATTENTION: When threading, keep the system as horizontal as possible.

6.3. Aligning the platform

When moving the system, it may be the case that the platform is not aligned horizontally. The setting should be checked with the use of a spirit level. To compensate for a possible slant of the platform, proceed as follows:

1) Remove the front cover of the system by loosening 2 M6 screws on the back of the lift and then the two M6 screws on the left and right bottomside of the front cover. Disconnect all cable connections between the drive unit and the front cover

Figure 11: Removal of the front cover

2) Loosen 4 Allen screws on the gear flange to be able to fine tune the gear
3) Now set up the stairlift with a spirit level
4) Tighten the 4 Allen screws for the fine adjustment of the gear again firmly

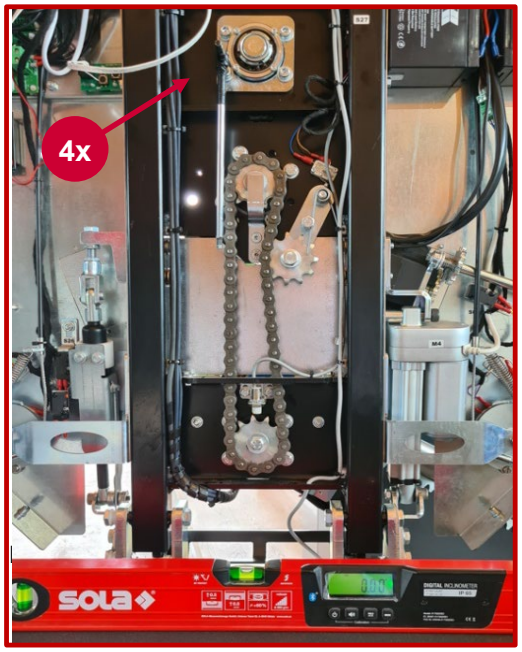


Figure 12 Platform alignment

6.4. Test run with the front cover removed

Figure 13: Test run with the front cover removed

To carry out a test run with the front cover removed and thus be able to check the chain tension, plug the control cable that was originally connected to the display into the plug connector on the circuit board as presented. The lift can be moved in both directions with the arrow keys.

The chain tension may change during the travel depending on the road surface. Test drive the stairlift and check the chain tension section by section.

TIP: Chain should be able to be pressed approx. 1cm

After the test drive has been completed, refit the front cover properly. Finally, check the screws for tightness.

7. Attaching the charging points

7.1. Parking positions

In order to be able to attach the charging points properly, the parking position of the individual stopping points must first be placed properly on the track.

To place the upper stopping point or intermediate stopping points, use a spirit level and place it at the top step. The lower edge of the platform should be flush with the upper edge of the step. Then mark the position at the upper limit switch on the track with tape or a pen.

Figure 14: Placement of the upper stopping point

For the placement of the lower stopping point, the distance between the ground and the lower edge of the platform should not be less than 10mm. Then mark the position at the lower limit switch on the track with tape or a pen.

Figure 15: Placement of the lower stopping point

7.2. Positioning of the positive contact charging points

Fasten the charging points in the desired position using the two M6 screws. The threads for fastening must be drilled at the desired position. Drive the lift system up to the charging points and check the position where it stops. If necessary, correct the limit switches on the lift system. Route the red cable, which is connected to the charging point, to the upper end of the tube. Execute these steps right away with the lower end of the charging station. Clamp the two charging contacts (positive pole) to a long cable which you must lay in the charging box.

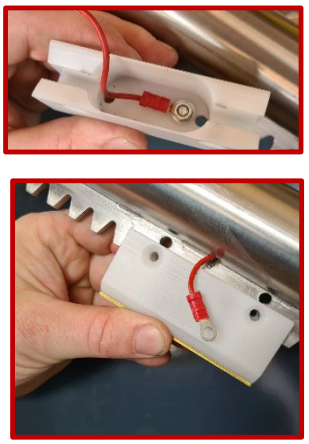


Figure 16: Connection of positive cable on the charging point

For outdoor systems, always make a hole in the lower tube plug to allow any possible accumulation of condensation water to drain out.

7.3. Negative contact

Screw the blue cable supplied to a pre-drilled point on the rack. Do not screw the negative pole to the columns, as there may be insulation here. Also route the negative pole into the charging box as well.

Clamp both positive contacts with the positive contact of the charger or clamp the negative contact with the negative contact of the charger. Use the LED on the charger to check that the charge is working properly.

If necessary, the cabling of the charging box may differ depending on the situation.

8. Installation of the charging box

Select a suitable place for the box and mount it with the screws provided. The cover of the box is transparent so that you can always visually check the charge using the built-in LED on the charger.

Figure 17: Box for charger

Figure 18: Charger incl. cabling

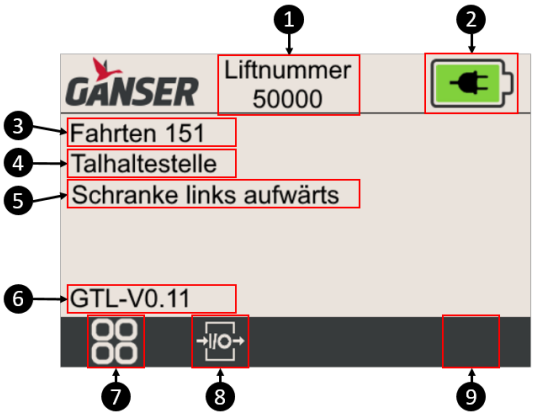
If the LED is lit orange, the batteries are being charged.
If the LED is lit green, the batteries are fully charged.

9. Display functions

The stairlift is delivered from the factory at a slower speed when travelling on inclines or curves to avoid travelling too fast on curves and inclines. To increase the speed in a straight line, it is necessary to perform a learning drive.

9.1. Display overview

The following status/information is visible on the overview page



① **Lift number**
Is the manufacturer number of the lift and is required for technical enquiries

② **Battery status**
If the symbol is selected, the detailed view for the battery charge is displayed (see Point 0).
There are a total of 6 statuses that can be displayed, which have the following meaning.

i. 0% battery charge
ii. 25% battery charge
iii. 50% battery charge
iv. 75% battery charge
v. 100% battery charge
vi. Charging

③ **Trip counter**
Indicates the number of trips a lift has made. A trip is a movement from one stopping point to another

④ **Stopping point status**
Indicates which stopping point you are at.

⑤ **Movement status**
Display of which movement command is being executed at the moment

⑥ **Software version**


⑦ Selecting the menu symbol takes you to the functions


⑧ Selecting the menu symbol takes you to the input/output overview

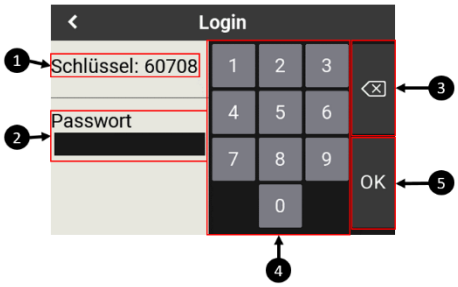

⑨ If the symbol is present in the menu bar, an error message is active.
Selecting the warning symbol takes you to the message menu (see point 9.2.3)

9.2. Functions

Various functions are displayed on the function overview.
The number of functions displayed depends on the login level and the respective parametrisation.

9.2.1. Login

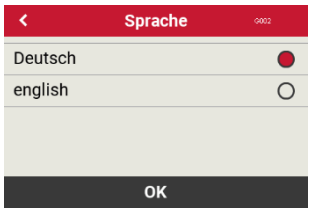
Used for login to the control system to prevent adjustment/operation by untrained personnel.



① Displays the key for calculating the password. This is changed with every login or incorrect entry
② Input field for the password. The password is the numerical suffix of the key. e.g. 60708 → 6+0+7+0+8 = password 21
③ Delete the input
④ Input keys
⑤ Confirmation button, if the code has been entered correctly, you automatically return to the function menu, otherwise a pop-up appears stating that the code has been entered incorrectly and the key is changed

9.2.2. Changing language

By selecting the symbol, you go to the selection of the different languages.



By selecting the respective language and confirming with the OK button, the language can be changed

9.2.3. Message menu

In the message menu there are the following two menu items

- **Error archive**
  The error archive shows the last 100 errors that occurred.
- **Error counter**
  Displays the number of the respective errors.

9.2.4. Display settings

In the display settings, the various settings of the display can be adjusted.

9.2.5. Parameters

All lift parameters can be adjusted here.

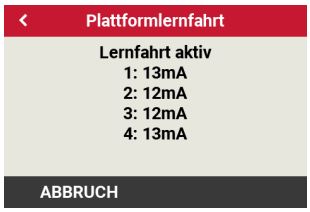
9.2.6. Manual mode

This menu is used to operate the respective motors/actuators manually.
⚠ In this mode, no limit switches are active and you have to watch out for any collisions yourself.

9.2.7. Platform learning run

This learning run is used to adjust the overload current for lifting the platform to the mechanics.

Query whether learning run should really be started.

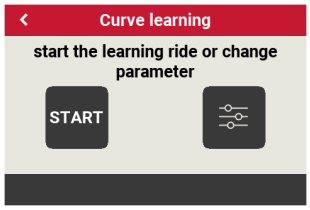


After starting, the platform is lifted a total of five times until the vertical limit switch is lost.

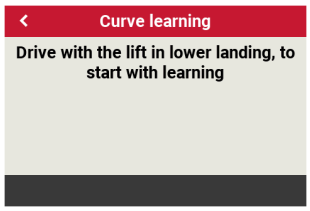
At the end of the learning run, the determined current limit is displayed. At this point, you can still decide whether to accept this value (“OK” button) or not (“CANCEL” button).

9.2.8. Curve learning run

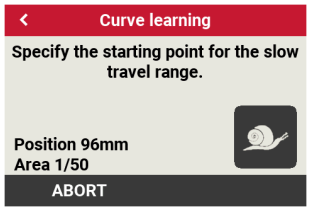
Curve learning is only available if the option is enabled (parameter → General → Options (“Counter sensor”)



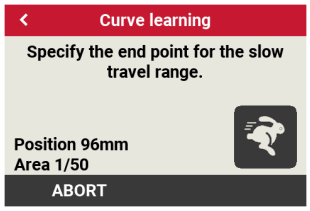
1. Select whether to start the learning run or to manually edit the individual areas.



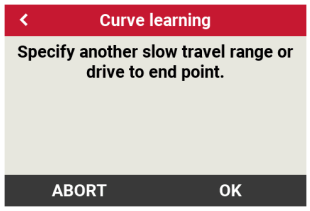
2. If you are not at the lowest stopping point, the notice will be displayed until you reach it.



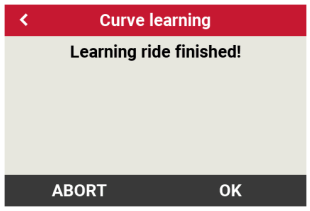
3. Select whether to start with a low speed travel range. Selecting the snail symbol sets, the starting point. At the bottom left of the window, the current position and the current slow travel range are displayed.



4. Selecting the rabbit symbol confirms the end point for the slow travel range.



5. Select whether another area should be learned (OK button) and repeat points 3 and 4 or simply travel with the lift to the final stopping point to complete the learning run.

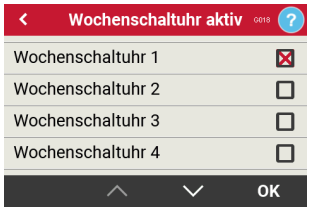


6. Confirm the learning run so that the learned data is saved. Pressing the OK button saves the data and pressing the CANCEL button discards the learned data.

If the last stopping point is a parking stop, the lift must be folded up in front of it and moved into the parking stopping point by remote control to complete the learning process.

9.2.9. Weekly timer

By means of the timer, the lift can be enabled for certain days by means of a time window.



A maximum of 7 timers can be activated in the menu item “Weekly timer active”. The setting itself is made in the previous menu

The weekly timer has the following setting options, day of the week (①), start time (②) and end time (③). 3 time windows can be defined per timer. You can switch between them with the arrow keys (④).

9.2.10. USB

The following functions can be carried out in the USB menu

- Import of a customer-specific logo
- Deletion of a customer-specific logo
- Parameter Export
- Parameter Import

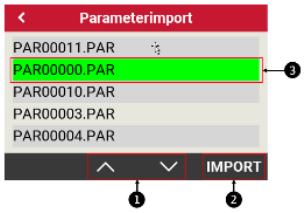
Pressing the button takes you back to the function overview

Using this function, a customer-specific logo can be used in the control system. However, this function is only active if there is a file with the name “logo.bmp” on the USB stick. If the function is activated, the image is copied from the USB stick to the internal memory and is now used as a logo. The copying progress is displayed by means of a status bar.

This function is only displayed if there is already a customer-specific logo in the memory and is used to delete the logo.

This function is used to export the parameters to the USB stick. The file is saved in the “Param” folder and given a consecutive number.

Selecting the function takes you to the menu for importing a saved parameters file.



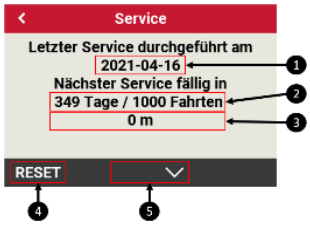
① Use the arrow keys to jump back and forth between the parameter pages.
② If a file is selected (③), the “Import” symbol appears and by pressing it, the existing files are replaced with the selected parameters. At the end of the import, the parameters are confirmed to have been imported
③ The green bar shows the currently selected parameter file that is to be imported.

9.2.11. Delete customer logo

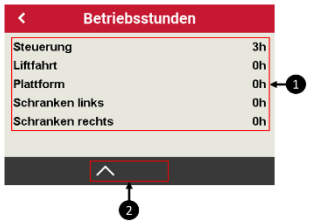
This symbol is only displayed if a customer-specific logo is present in the control system. By selecting the symbol, it is deleted from the control system and the standard logo reappears on the display.

9.2.12. Service

The service menu shows important data for the maintenance of the lift.



① Date of the last service
② Time or trips until the next service
③ Total counter for travelled length
④ Reset button for setting the service date/trip counter. However, this is only visible after logging in
⑤ Go to the next page



① Display of the operating hours of the respective drive/motor
② Button to return to the previous page

9.2.13. Date/Time

The date and time can be set here.

The +/- buttons can be used to adjust the respective values.

10. Checking the wireless range

Due to environmental conditions, it may be necessary to increase the preset wireless range. Please check with each installation whether the preset range is sufficient. If there are interruptions or faults, please increase the range as follows:

Figure 20: Remote control circuit board

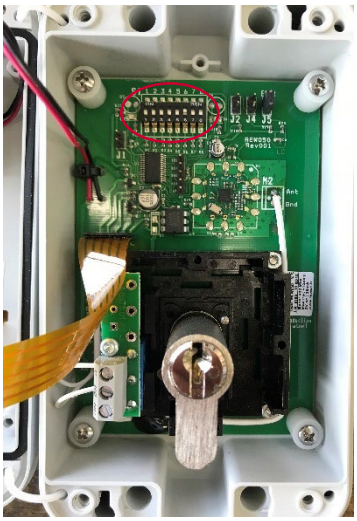


Figure 19: Outdoor control circuit board

S1 6	S1-7	Radio Power
OFF	OFF	-20 dbm
ON	OFF	-10 dbm
OFF	ON	0 dbm (default setting)
ON	ON	+ 10 dbm

Table 2: Wireless Power

If it is not necessary to increase the range, leave it at the default setting, as increasing the range will reduce the battery life.

10.1. Checking the transmission frequency

Each fitter must check whether there are other systems with the same wireless system in the vicinity of the lift system. If so, change the frequency of all transmitters or the receiver. Each lift system is supplied with 433.15 Mhz as standard.

Warning:
If two lift systems operate with the same frequency, there is a risk that both lift systems will be put into operation at the same time.

S1 1	S1 2	S1 3	S1 4	Radio frequency
OFF	OFF	OFF	OFF	1 (433.15 Mhz)
ON	OFF	OFF	OFF	2 (433.25 Mhz)
OFF	ON	OFF	OFF	3 (433.35 Mhz)
ON	ON	OFF	OFF	4 (433.45 Mhz)
OFF	OFF	ON	OFF	5 (433.55 Mhz)
ON	OFF	ON	OFF	6 (433.65 Mhz)
OFF	ON	ON	OFF	7 (433.75 Mhz)
ON	ON	ON	OFF	8 (433.85 Mhz)
OFF	OFF	OFF	ON	9 (433.95 Mhz)
ON	OFF	OFF	ON	10 (434.05 Mhz)
OFF	ON	OFF	ON	11 (434.15 Mhz)
ON	ON	OFF	ON	12 (434.25 Mhz)
ON	OFF	ON	ON	13 (434.35 Mhz)
ON	OFF	ON	ON	14 (434.45 Mhz)
OFF	ON	ON	ON	15 (434.55 Mhz)
ON	ON	ON	ON	16 (434.65 Mhz)

Table 3: Wireless frequencies

11. Performing the remaining work

Please perform the following remaining work so that the lift system can be properly completed:

1) If supplied, fit the two external command transmitters at the upper and lower stopping points as follows:
    a. There should be about 1 m between the platform and the outside control so that the wheelchair user has enough place in front of the lift. There must also be a distance of about 0.5 m to step edges and corners.
    b. The external control should be mounted at a height of about 90 cm, visible from the track.
2) Fit the plastic caps supplied to the screws.
3) Attach the stainless steel end caps to both tube ends.
4) Attach the required signage.
5) Clean the platform lift and the track area thoroughly.

Finally, check the system according to the installation report, point 12.

12. Installation report

System no.:		**Date:**	
Location:		**Customer name:**	
Operator:		**Installation company:**	

Item	Description	OK	Defect
1.	**Track**		
1.1	Track mounting	☐	☐
1.2	Charging circuit cables and wiring	☐	☐
1.3	Station positions	☐	☐
1.4	Emergency limit screw installed at the upper station	☐	☐
1.5	Sufficient clearance between lift and wall / stairs	☐	☐
2.	**External control panels**		
2.1	Function test (up, down, open, close)	☐	☐
2.2	Mounting height approx. 900 mm	☐	☐
3.	**Drive unit**		
3.1	Drive motor	☐	☐
3.2	Motor brake	☐	☐
3.3	Drive gear engages	☐	☐
3.4	Locking safety gear engages	☐	☐
4.	**Lift platform**		
4.1	Overload test performed	☐	☐
4.2	Battery status measured	☐	☐
4.3	Function test of control buttons on lift (up, down, alarm, emergency stop)	☐	☐
5.	**Safety features**		
5.1	Upper limit switch	☐	☐
5.2	Lower limit switch	☐	☐
5.3	Platform bottom function	☐	☐
5.4	Emergency stop on lift	☐	☐
5.5	Side cut-off switches (ascending and descending directions)	☐	☐
5.6	Lift stops when barriers are opened during travel	☐	☐
5.7	Switching function of access ramps during ascent and descent	☐	☐
5.8	Emergency limit switches checked	☐	☐
5.9	Emergency crank switch	☐	☐
5.10	Emergency call system, if present	☐	☐
6.	**General**	☐	☐
6.1	Signs posted	☐	☐
6.2	System cleaned	☐	☐
6.3	Construction area cleaned	☐	☐
6.4	System installed tidily	☐	☐
7.	**Customer**		
7.1	Training properly completed	☐	☐
7.2	Operating and maintenance instruction handed over	☐	☐
7.3	Emergency crank handed over	☐	☐
7.4	All keys handed over	☐	☐

Signature fitter

Signature Customer