

# Platform stair lift PLG7

## Operating manual

Version 1.02



CE

GB

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# Operating Manual PLG7

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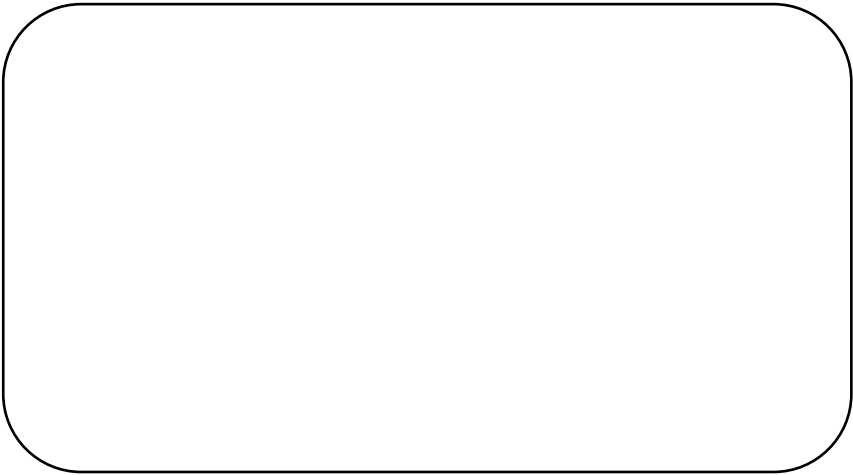
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My ASCENDOR Partner is:



## **IMPORTANT!**



Please read this operating manual, before using the PLG7 stair-lift.  
Also ensure that all other persons using the lift have read and thoroughly understood the contents of this manual.  
The contents and technical data included in this manual can be altered at the manufacturers' discretion without prior warning.

## **1. Introduction**

Dear reader!

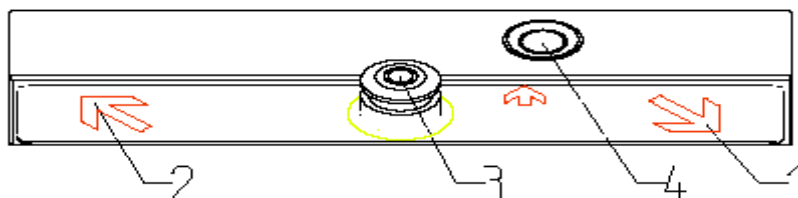
We would like to congratulate you on becoming the owner of an *Ascendor* PLG7 stair-lift and offer our thanks for the trust you have shown, by purchasing our high quality product.

This operating manual is designed to assist you during everyday use of the lift. Take the time to read the contents thoroughly and familiarise yourself with all the functional possibilities this product has to offer and which are now at your disposal.

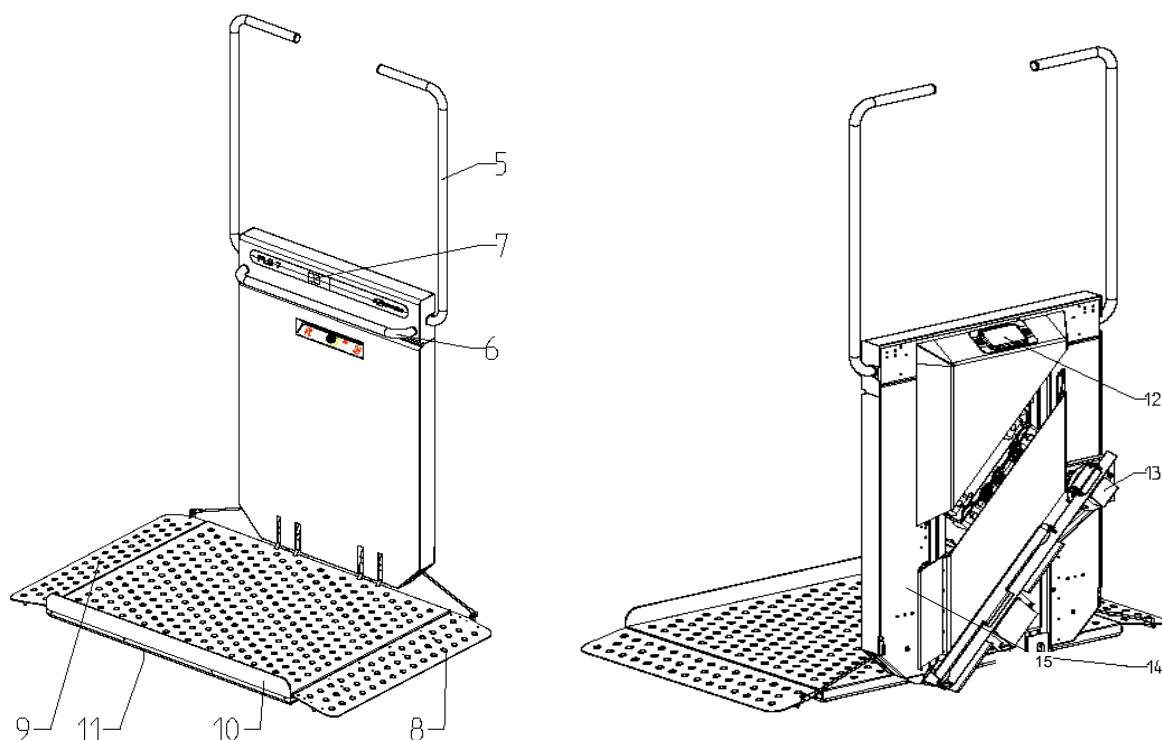
Please pay particular attention to the safety guidelines described in this manual, these are designed to ensure a secure and injury-free use of our lift.

## **2. An illustrated overview of the lift and its ancillaries**

### **2.1 Operating panel and hand held remote control**



## 2.2 Front and rear views of Ascendor Stair-lift PLG7



Pos.	Description
1	Travel selector switch – <b>DOWN</b>
2	Travel selector switch – <b>UP</b>
3	Emergency Stop button
4	Emergency call button ( <i>optional</i> )
5	Safety bars
6	Hand Rail
7	Display panel
8	Access ramp - Right
9	Access ramp - Left
10	Frontal kick plate <b>or</b> optional access ramp
11	Pressure sensitive safety tray
12	Fuse box
13	Arresting device (emergency brake)
14	Platform retaining plate ( <i>page 10 / 6.7.2</i> )
15	Emergency travel button ( <i>page 9 / 6.7.1</i> )
16	Platform open button ( <i>remote control</i> )
17	Platform close button ( <i>remote control</i> )

### **3. Intended scope of operations**

The **Ascendor Stair-lift PLG7** is a fixed mechanical installation, which is designed exclusively for the transport of disabled or elderly people. The manufacturer accepts no liability for any injuries or mechanical damage that might occur as the result of improper use of the lift or the employment of this lift for any purpose other than that for which it was originally intended.

**The lift is designed for the purpose of transporting one disabled or elderly person, while either:**

- - standing on the platform or
- - seated in a wheelchair on the platform,  
between two levels inside or outside a building.

The **Ascendor Stair-lift PLG7** is manufactured in accordance with the standards governing such appliances. However these standards alone are no guarantee for a secure and safe operation.

We have therefore provided you with this operating manual to assist you during the everyday use of the lift. However to have the desired effect, everyone who will operate the lift must have read, understood and strictly adhere to the contents of this manual to ensure that injury and material damage are avoided. We request you pay particular attention when reading the chapter concerning: **“Safety Guidelines”**.

In addition to the demands placed upon both the lift and personnel, the direct surroundings in the vicinity of the angled travel rails and the lift platform must also be taken into consideration to guarantee reliable and secure operation at all times. Hazardous situations can arise if *Ascendor Ltd*; has not carried out the planning and installation of the lift OR alterations are made to the unit by the operator.

The technical personnel, responsible for the operation, installation and maintenance of our lifts have all first participated in a technical training course to ensure that they are qualified to our satisfaction to carry out this work. This operation manual must also be made available to all users and we recommend the operator stores it in the immediate vicinity of the lift unit.

**The Ascendor platform stair-lift is not suitable for use in surroundings where an increased risk of explosion is present (i.e. inflammable gases are present)!**

#### **Warranty conditions**

The guarantee is deemed to have become invalid in such cases where damage or injury has occurred as a result of the improper use of the lift and its ancillaries and due to failure to have read and observed the instructions included in this operating manual.

## **4. General description**

Our product is designed to conveniently fulfil the requirements of transporting disabled or elderly people up and down staircases and at the same time be easily integrated into familiar surroundings.

One great advantage of the design of our lift is the upper travel rail which can also be used as a stair rail when the stair-lift is not in use. The travel rails do not need to be oiled or greased, which reduces the possibility of soiling by dust and dirt.

When in motion, the travelling speed is limited to a comfortable and practical 0.15 m/s by the use of a rack and pinion drive.

The noise level during operation is under 63 dB (A). The load capacity and platform size are clearly indicated on the specification plate.

The operational load is supported on the travel rails by two sets of rollers, two diagonal rollers, the gear wheel and opposing bearing. The supporting rollers are fixed onto two parallel mounted stainless steel tubes.

An electrical motor propels the unit by means of a rack and pinion gear which is capable of withstanding the horizontal and vertical loads it is subjected too. The upper travel rail is manufactured from stainless steel tube, the rack from a solid stainless steel bar. The necessary attaching profiles and elements are attached to an existing wall, supports or a steel structure.

An arresting device (emergency brake) ensures that in the event of a mechanical or electrical failure, the lift remains stationary and does not free-wheel down the travel rails.

## 5. Safety guidelines

**ATTENTION!** The Ascendor platform stair-lift has been manufactured in accordance with international safety regulations. Nonetheless operating errors and misuse can result in injury or even death for the user and/or third parties and cause damage to the lift unit, its surroundings and property of the operator.

The intention of this chapter is to highlight these dangers and we cannot place enough emphasis on how important it is that this information is read and understood!

Symbols used:



1)



2)



3)

The relevance of the symbols used in this operating manual are described below:

- 1) **Indicates an operational step, whereby the failure to observe the instructions in this manual will result in a dangerous situation where injury or material damage will become unavoidable.**
- 2) **Indicates an operational step, whereby the failure to observe the instructions in this manual will lead to a dangerous situation where there is an increased likelihood of injury or material damage occurring.**
- 3) **Indicates an operational step where additional references or explanations are included in this manual.**



The lift should only be put into operation after the operating manual has been thoroughly read and the recommendations in this manual shall be observed at all times.



Never exceed the maximum recommended load.



Ensure that the lift is not used for any purpose other than that for which it is designed (i.e. not as a plaything by unaccompanied children).



In the event of a fire do **NOT** use the Lift.



Ensure that no items of clothing, handbags or other material or personal property are hanging on the travel rails before and during the operation of this lift.



Do not rest arms on the safety rails or back of the lift unit during operation.



Under no circumstances allow the hands of passenger or operator to come in the vicinity of the travel rails when the lift is in operation.



The lift unit and travel rails must at all times be adequately illuminated, either by daylight or at an electrical light source. The electrical lighting provided must **not** operate with a timing device.





Always position wheelchair bound passengers on the lift in the direction of travel and apply the handbrake on the wheelchair before starting the lift.



The lift is only approved for the transport of one person at a time.



Never insert solid objects or pour any form of fluid into any slits or openings of the lift unit! This applies irrespective of whether the lift is stationary or in use.



Do **not** remove, cut or deform or handle any parts of the lift with force.



Do **not** operate the safety rails with the use of force, when opening and closing or during travel.



The lift should be **immediately stopped** should any form of obstruction or objects be directly in the path or in the near vicinity of the lift or its' travel rails during use.



Do **not** remove any of the signs or labels which belong to or are a part of the lift.



In the event of a breakdown or technical problems, please refer all repair work to trained technicians.



During operation, ensure that no parts of the wheelchair or passenger protrude beyond the extents of the lift platform.



Do not use this lift in conditions where a high risk of explosion is present (i.e. in the event of a gas-leak).



The passenger on the platform should not make unnecessary i.e. rocking or see-sawing movements while the lift is in motion.



Regardless of whether the lift is erected inside or outside, it is forbidden that it be put into use after it is subjected to any form of flooding.



Soiling or dirt on the lift or rails may be removed with the use of household cleaner, stainless steel polish or a moist cloth. **Never** use running water or a hose.



Irrespective of the amount of use the lift is subjected to, we recommend that it is checked at least once a year by a technician.

A maintenance record should be kept in a service book or on the table provided on page 16. We advise that this work is entrusted to *Ascendor Ltd* or one of its agents.



If this lift is to be operated without the use of third party assistance, it is essential that extra precautions are provided so that should the lift stop for any reason during operation (i.e. mechanical failure, power-cut or fault) the passenger can summon help and assistance.



*We strongly recommend fitting an emergency call device (see optional extras) or carrying a cordless or cellular telephone at all times when using the lift.*



When the lift is not in use it is important to leave it parked in the recharging position, irrespective of whether it is at the upper or lower landing. Only with fully recharged batteries can the functional safety of the lift be guaranteed.

## 6. Operating the lift

### 6.1 Wireless remote control

The wireless remote control allows the operator the greatest amount of freedom when using the lift. You are no longer limited to remaining near to the lift mounted control panel and can control the lift with the assistance of this small handheld device which is easily carried in a pocket.

The receiver is mounted inside the frame of the lift unit and transmits the commands of the remote control to the lift.

The remote control makes the lift mounted control panel redundant and impervious to acts of vandalism or malicious damage.

### 6.2 Operation of the platform stair-lift unit

#### 6.2.1 Controls on the remote control unit

Both remote controls provided have identical controls, which are as follows:

- a) Push buttons to control **UP** and **DOWN** functions.
- b) Push Buttons to control PLATFORM **OPEN** and **CLOSE** functions.

#### 6.2.2 Controls mounted on lift unit

The following controls are mounted directly on the lift unit:

- c) Touch sensitive buttons to control **UP** and **DOWN** functions.  
(See page 4 / 1 & 2)
- d) Red push button to control **EMERGENCY STOP** function.  
(See page 4 / 3)
- e) **EMERGENCY CALL** button (optional).

### 6.3 Sending and returning the lift unit

The **Ascendor Stair-lift PLG7** can be sent or returned to and from its stationary operating positions with the assistance of the remote control unit regardless of the position of the operator

#### **Sending / Returning the lift unit from the upper to the lower level:**

Push and hold the  (**DOWN**) BUTTON. After a short delay the lift will move downstairs.

#### **Sending / Returning the lift unit from the lower to the upper level:**

Push and hold the  (**UP**) BUTTON. After a short delay the lift will move upstairs.

### 6.4 Moving the platform and safety bars to allow access to lift

The movement of the platform lift access ramps and the safety bars occurs automatically (electro-mechanically), the operation occurs as follows:

#### **POSITION: Lower landing**



Push and hold (Platform **OPEN**) button →

- The platform access ramps open
- Both safety bars open (swing upwards into vertical position).

## POSITION: Upper landing

 Push and hold (Platform **OPEN**) button →

- The platform access ramps open
- The safety bar on the upstairs side of the lift opens (vertical position)
- The downstairs side safety bar remains closed (horizontal position).


### 6.5 Travelling with the stair-lift

#### POSITION: Lower landing

 Push and hold the (UP) button →

Both safety bars are lowered into the closed (horizontal) position, the lift travels upstairs. Once it has reached the upper landing the upstairs safety bar opens.


#### POSITION: Upper landing

 Push and hold the (DOWN) button →

The upstairs safety bar closes, the lift travels downstairs. Upon reaching the lower landing the safety bars open. As soon as the travel sequence is complete, release the button and leave the platform.

### 6.6 Moving platform and safety bars to park lift in starting position

#### POSITION: Upper / Lower landing

 Push and hold the (Platform **CLOSE**) button →

The safety bars are lowered into the closed position, the access ramps are closed.



To allow the maximum amount of clearance and thereby the greatest access to the stairs and to the upper travel rail which also doubles as a hand rail it is recommended that the lift is parked downstairs as often as possible.

### 6.7 What should I do in the event of a breakdown? (Technical defect)

We recommend that the emergency call button be activated (*it can be retro fitted as an optional extra*). For private operators, it is essential that a cordless or cellular phone is carried at all times so as to be able to summon help and assistance. For further information regarding the emergency call options available please refer to chapter **9.2** in this manual.

#### 6.7.1 How can I help myself?

Following a technical defect, it is still possible to move the **Ascendor Stair-lift PLG7** into a safe position.

**Please note:** the emergency travel provisions described are only to be used in an emergency situation, i.e. the stair-lift with passenger onboard remains stationary between operating positions and no other possibility remains to set the lift in motion. We would like to make the operator/user aware that when following this emergency operating procedure all normal safety features of the lift are no longer in operation!

#### Moving the lift after a breakdown, please follow this procedure:

- a) The **EMERGENCY TRAVEL** button is located on the back of the lift on the lower (downstairs) end of the unit, behind the battery box (see page 4 / **Pos.15**).

Push and hold both the **EMERGENCY TRAVEL** button and either the **UP** or **DOWN** button (on the remote control **or** on the control panel) the lift will move at a greatly reduced speed in the desired direction.

Depending on where the lift has stopped, we would normally advise moving it in the direction of the next **nearest** loading/unloading position, providing the batteries still have an adequate charge! If the batteries no longer have sufficient power, only travel with the lift in the downstairs direction.

Upon reaching the desired landing, the lift should under no circumstances be used again. Please notify our customer service immediately and wait until a qualified technician has repaired it.



**Please note that during emergency travel the emergency limit switches, the emergency brake switch and the safety switches for the safety bars are all no longer in operation!**

**Extra care and attention must be taken especially when bringing the lift into final position (irrespective of whether it is at the upper or lower landing)!**

### **How can someone assist me to leave the lift?**

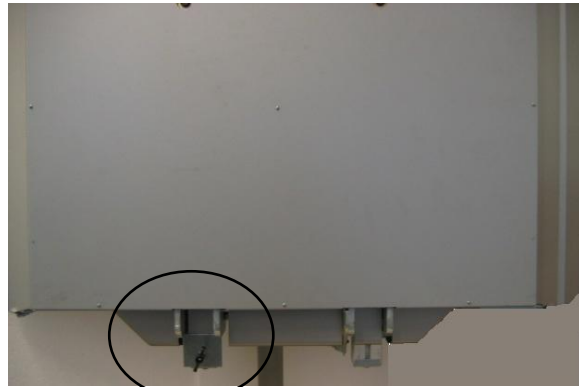
To help the passenger out of the lift please follow these instructions:

Depending on final position of lift, use reasonable force to raise the relevant safety bar (In an emergency use the friction clutch).

Only then can the passenger be assisted out of the lift.

Please note: if the lift is standing upstairs only the safety bar on the upstairs end is to be raised.

To ensure that the lift does not block access to the staircase, the platform should be folded away by hand and secured with the retaining plate provided. This plate can be found at the back of the lift attached to the aluminium frame at the top (upstairs) end. (See *page 4 / Pos.14*). Remove the wing nut and use it to refasten the plate to the front edge of the aluminium frame (see photo).

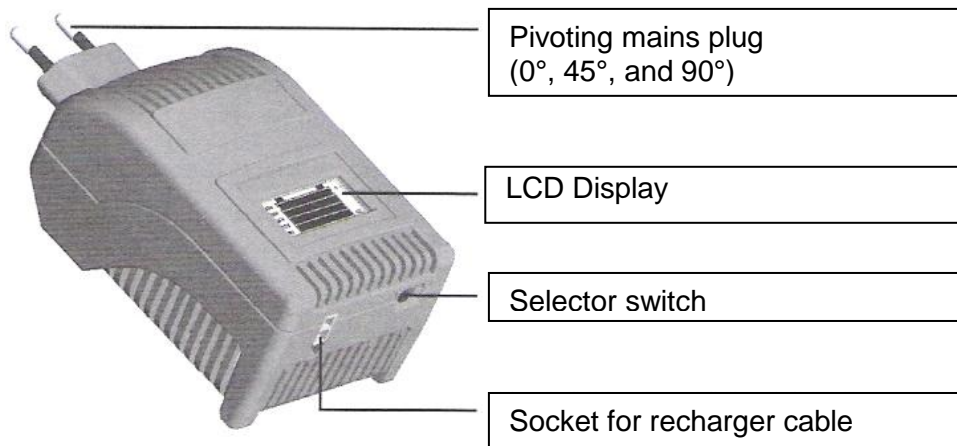


## 7. Electrical operation

To guarantee the function of the stair-lift in the case of a prolonged power cut (lasting more than 12 hours), turn off the switches F1 and F2.

These can be found in the fuse box (see page 12 / pos.7.2).

### 7.1 Recharger unit



Set the selector switch to device type B.

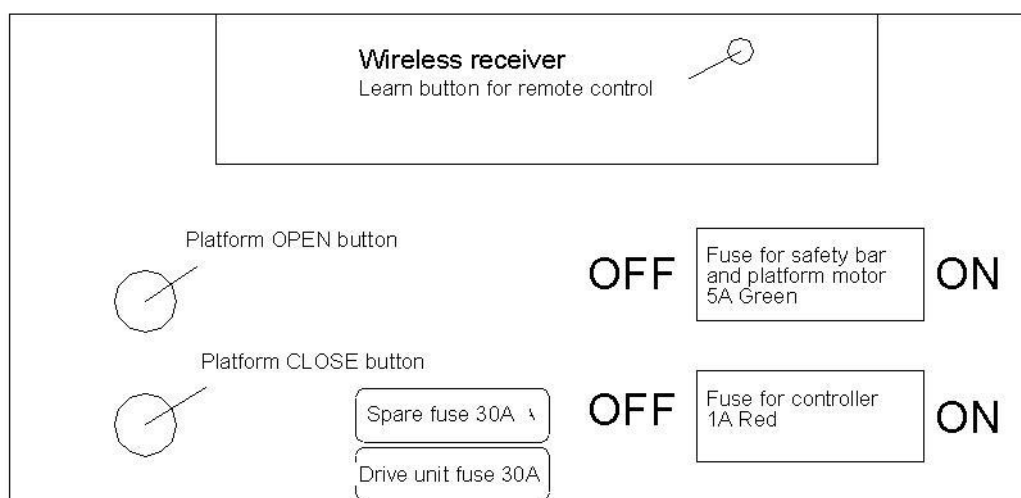
Power bars in the display continually indicate the charge condition of the batteries.



**The recharger unit must be permanently connected to the mains supply during normal operation!**

Detailed information regarding the recharger can be found in the relevant instruction manual delivered with the unit.

### 7.2 Fuse-box / fuses



The fuse-box is positioned on the lift, upper rear enclosure! (See page 4 / Pos.12)

## **8. Safety features**

### **8.1 Contact sensor strip**

Contact sensors are fitted to both access ramps to detect obstructions in the path of travel and a pressure sensitive contact tray is fitted under the platform (see page 4 / pos.11) as an additional safety measure.

This prevents accidents occurring as a result of obstructions reducing the ground clearance of the lift while it is in motion.

## **9. Optional extras**

**Depending on the customer/operator's requirements, the *Ascendor Stair-lift PLG7* can be fitted with the following optional extras.**

### **9.1 Third safety bar**

To further increase the security offered by the *Ascendor Stair-lift PLG7*, a third safety bar can be installed. This safety bar is fitted on the downstairs end of the lift underneath the existing bar and is intended to increase the security for wheelchair bound users. Pay attention during operation of the lift that no obstructions prevent this third safety bar from being properly lowered into position.

### **9.2 Emergency call options**

Platform lift units which are accessible to the public must be equipped with a means of permitting the user to summon help in an emergency.

We offer a choice of two options:

1. A bell fitted within the lift unit.
2. An emergency calling device which with the aid of a GSM modem sends an alarm message to a pre-defined cellular phone receiver.

We highly recommended that private users consider fitting the second option or at least ensure that they carry a cordless or cellular phone for their own safety when using the lift.

### **9.3 Remote control with key-operated switch**

This remote control can be activated with the use of a key to switch it **ON** and **OFF**. This additional switch ensures that unauthorised persons cannot use the lift without permission.

### **9.4 Cable connected remote control**

This option allows the operator additional freedom of movement when using the lift. The cable connected remote control unit is plugged directly into the lift. All the functions described in this manual (travelling **UP** and **DOWN**, **OPEN** and **CLOSE** functions of the platform) can be controlled with this unit.

### **9.5 Frontal access ramp**

In certain locations due to a lack of space, it is not possible to load a wheelchair onto the platform with the standard access ramps (see page 4 / Pos.8 at each end. In such cases an extra access ramp can be fitted along the side of the platform in place of the standard kick plate (see page 4 / Pos.10).

## 10. CE- Declaration of conformity

We hereby declare that this product complies with the directive 2006/42/EG of the European Parliament and conforms to the following standards as laid down in the relevant documents:

EN ISO 12100-1; EN ISO 12100-2, EN 953, EN954-1, EN 349,  
EN ISO 13850, EN 294, EN 1037, EN 60204-1

## 11. Trouble shooting guide

The unit will emit an acoustic warning signal should problems occur during normal operation. The fault can be read from the display and the following countermeasures as described in the table below should then be taken:

Display prompt	Possible cause of problem	Countermeasure
Fault 1 Emergency Stop or Limit switch	Emergency Stop button has been pushed	Release emergency stop button. (Turn button to the left)
	Arresting device (emergency brake) is activated	Use the emergency button and push the lift 10cm in the opposite direction to which it was last travelling. After the emergency brake is released this device must be checked by a technician and if necessary replaced.
	Emergency limit switch on	Call service technician
Fault 2 Ramp or Sensor strip	Pressure sensitive tray or loading ramp react to obstruction	Remove obstruction. Check that pressure tray can move!
Fault 3 Low voltage or no charge	Lift stops outside of loading station position	Travel with the lift into the upper or lower loading station!
	Recharger not plugged in or broken.	Check the display on recharger! Check the mains voltage!
	Empty or weak batteries	Travel with the lift into the upper or lower loading station!
Fault 4 Platform or bars are overloaded	Obstruction hinders movement of safety bars or platform.	Remove obstruction!
Fault 5 Safety bar manually opened	Safety bar has been opened by hand	Close safety bar with <b>OPEN</b> or <b>CLOSE</b> button!
Fault 6 Only use onboard controls!	Incorrect operation	Lift can only be operated in folded condition with onboard controls!
Fault 7 Both limit switches activated!	Limit switch at top and bottom are depressed	Call service technician!
Fault 8 Fuse F2 broken	Short-circuit of the platform-motor or the motor of the bars	Exchange the old to a new fuse!

Fault	Possible cause	Solution
Lift does not function. No prompt in the display.	Short circuit	Turn F1 safety automatic (See Point 2) <b>ON / OFF</b>
	Control system is defective	Call service technician!

**If you cannot correct the problem, please contact your customer service and request assistance.**

## **12. Dismantling and disposal**

The dismantling and disposal of the lift unit should only be carried out by an *Ascendor* partner.

In accordance with European guidelines 2002/96/EG concerning the disposal of used electrical equipment and its implementation under local law, worn-out devices must be collected separately and recycled in an environmentally friendly way.



## **13. Transport**

The size and weight of your platform stair-lift can, depending upon construction, vary in comparison with the standard model. The dimensions and weight are displayed on the specification plate fitted to each lift. The transportation of the lift and its ancillaries are only to be partaken under the supervision of an *Ascendor* partner, damages which occur during transport undertaken under any other circumstances are not covered by guarantee.

## **14. Installation and start of operation**

The installation and operational commissioning may only be carried out by qualified personnel who have been trained by *Ascendor* or its partners.

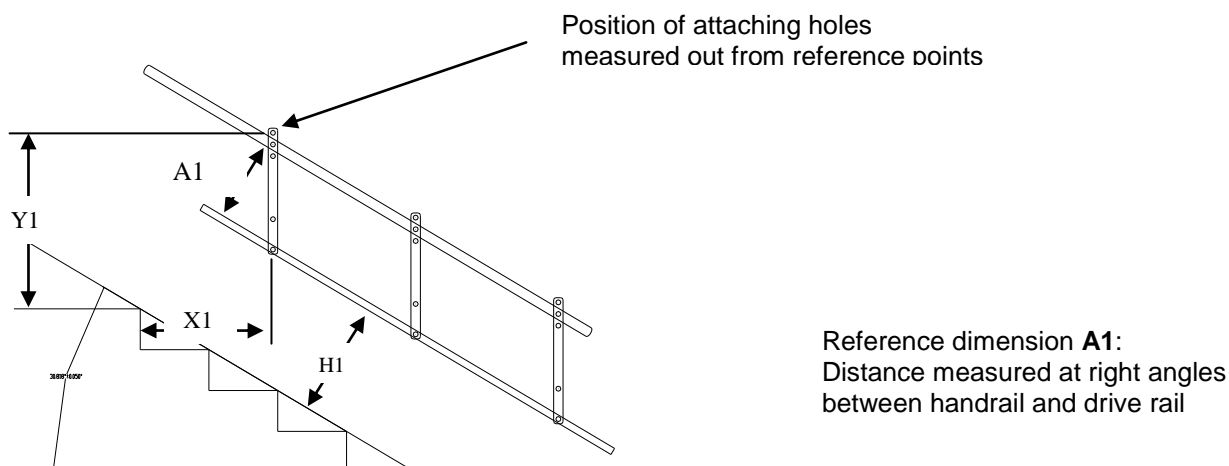
During installation, special care and attention must be paid to ensure that the operation of the lift cannot be obstructed or disturbed by vibrations or contact from any other appliances in the near vicinity.

The examination of the load bearing capacity by means of reactionary pressure of the surface area and the resulting load distribution through the wall onto which the lift is mounted must be carried out by a qualified structural engineer.



## 14.1 Installation of travel rails

The detailed installation drawing for your platform lift is attached to the inside of the protective cover.



## 15. Service notes

**In the interest of health and safety, do not forget to turn off the platform lift and disconnect it from the electricity supply before any form of servicing, repair or maintenance work is carried out on the unit.**

The following main maintenance work can be carried out by the customer/operator or by designated personnel:

- If the travel rails have become heavily soiled (i.e. dark areas of compressed dust and dirt are visible) this may be removed with a normal domestic cleaner or a polish suitable for cleaning stainless steel.
- In the course of time the hinges of the access ramps and the platform itself may begin to emit noises during operation as a result of friction and wear. This can be eliminated by applying grease to the affected parts.

The lifespan of the batteries averages 3-5 years! To ensure the operational reliability of your platform lift, we recommend that the batteries are replaced every 3 years

To guarantee the SAFETY and RELIABILITY of this product, we strongly recommend that all repair, maintenance or adjustment work required with the exceptions mentioned previously should only be carried out by qualified personnel, trained by *ASCENDOR* partners and with original *ASCENDOR* spare parts.

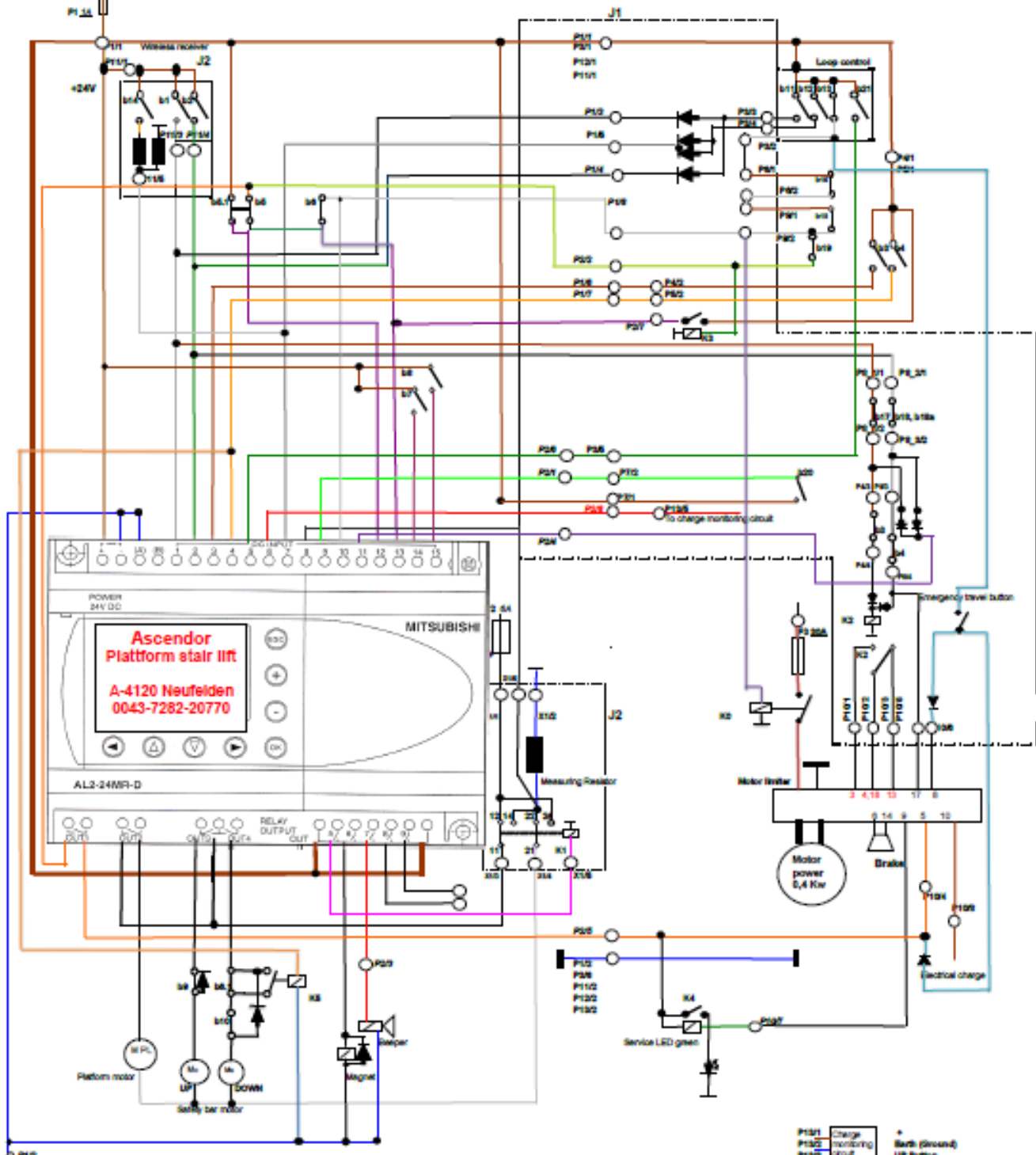
**16. Service/maintenance record for your lift:**

Installed on (date):		Serial-No.:	
Installed by (name):		Installation approved on/by:	
No.	Date	Service work carried out	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

## **17. Technical data sheet**

- **Scope of operation:**
  - Straight staircases, indoors and outdoors
- **Load capacity:**
  - 225 kg as standard (300 kg optional)
- **Operating angle:**
  - Up to 47°
- **Operating speed:**
  - 0,11 m/s (recommended); Smooth Start and Smooth Stop operation
- **Operating features:**
  - Operating elements (Touch sensitive buttons) fitted directly to lift.
  - Cable connected remote control (incl. spiral-cable) with 4 functions.
  - Fully automatic operation for platform and safety bars.
  - Option: stationary, key-operated wall mounted control unit incl. keys
  - Option: Hand held remote control
- **Drive unit:**
  - Battery operated: DC 24 Volt / 500 Watt with 4 maintenance free rechargeable batteries
  - Option: expandable up to a maximum of 8 batteries.
- **Drive system:**
  - Toothed rail / Spur gear
- **Noise levels:**
  - The operational noise levels of the lift do not exceed 63 dB
- **Acceleration:**
  - The maximum effective acceleration under load does not exceed 2,5m/s<sup>2</sup>
- **Net weight:**
  - 130kg
- **Travel rails:**
  - Upper rail: stainless steel handrail.
  - Lower rail: toothed, solid stainless steel tubular bar.
- **Recharging station:**
  - Intelligent recharging to ensure long battery life
  - Charge status display.
- **Platform size options:**
  - 1.000 x 800 mm
  - 800 x 800 mm
  - optional: 1.250 x 800 mm
- **Materials:**
  - Light weight construction out of aluminium/galvanised steel.
  - Enclosure made of durable, scratch-proof, UV- resistant ABS-PMMA or stainless steel.
- **Space requirements:**
  - 25 cm (in folded position) incl. travel rails
- **Colour:**
  - White aluminium / metallic silver similar to RAL 9006
  - Option available in all RAL-colours and with stainless steel enclosure

18. Wiring Diagram



- b1 UP Button Remote control
- b2 Down Button Reverse control
- b3 Limit switch TOP
- b4 Limit switch BOTTOM
- b5 Safety bar switch Top / Middle
- b6 Safety bar switch Top / Middle SPS
- b7 Safety bar switch Lower / Wide
- b8 Safety bar - Safety switch
- b9 Safety bar switch Top / Low
- b0 Safety bar switch Bottom / Low
- b1 Safety bar switch Top / High
- b18 Safety bar switch Bottom / High
- b11 UP Button Loop control
- b12 Down Button Loop control
- b13 Emergency cut-off switch Loop control
- b14 Ramp Reverse control
- b15 Safety brake
- b16 Emergency limit switch
- b17 Starter switch Top
- b18 Starter switch Bottom
- b19 security-contact city
- b20 Platform high
- b21 Platform switch low
- b21 Emergency Call \*
- K1 Reverse polarity relay
- K2 Motor start
- K3 PL UP (High)
- K4 Ready
- K5 Safety bar bypass
- J1 Interface card
- J2 Wireless and voltage monitoring circuit

SPS Inputs

- 1 digital UP Button
- 2 digital DOWN Button
- 3 digital Limit Switch TOP
- 4 digital Limit Switch BOTTOM
- 5 analogue Emergency Call 24V, Motor Limit
- 6 analogue Battery Load approx. 0,5V
- 7 analogue Ramp detector / Loop control
- 8 analogue Current measurement approx. 0V
- 9 digital Platform folded down
- 10 digital Emergency OFF circuit
- 11 digital Feedback signal obstacle
- 12 digital Upper safety bar closed
- 13 digital Lower safety bar closed OR platform raised
- 14 digital Upper safety bar low
- 15 digital Lower safety bar low

SPS Outputs

- 1 Emergency Cut-off circuit
- 2 Platform motor
- 3 Upper safety bar motor
- 4 Lower safety bar motor
- 5 Reverse polarity relay
- 6 Magnet
- 7 Sweeper
- 8 Relay for 3rd Safety bar \* (Option)
- 9 Relay for 3rd Safety bar \* (Option)

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Schaltplan\_plg7