# Assembly and instruction manual

GEDA®
Battery Ladder LIFT

## Inclined Elevator

For the transport of loads

GEDA®
ORIGINAL

**Original instruction manual**

GEDA ORIGINAL

# EU Declaration of Conformity

CE

The manufacturer

**GEDA-Dechentreiter GmbH & Co. KG**
Mertinger Str. 60
86663 Asbach-Bäumenheim
Germany

hereby declares that the machine

| | |
|---|---|
| Designation: | **Inclined hoist for material transport**<br>(for temporary, non-public use by authorised persons) |
| Type: | GEDA BatteryLadder LIFT |
| Serial No. | from **65000 00001** |
| Year of construction: | refer to the identification plate on the machine |

is in compliance with all pertinent provisions of the following directives at the time of being put on the market.

| Directives: | | Conformity evaluation procedures applied: |
|---|---|---|
| 2006/42/EC | Machinery Directive | Appendix IX |
| 2014/30/EU | EMC Directive | Appendix II |
| 2000/14/EC | Noise Emissions Directive | Appendix V |

Applied (harmonised) standards:
EN 12158-2:2011
EN 14492-2:2006+A1:2009

**EU Type test certification procedure:**

| | | |
|---|---|---|
| Conformity test | | **CA 495** |
| European notified test site | 0036 | TÜV SÜD Industrie Service GmbH<br>Westendstrasse 199<br>80686 Munich |

| | | |
|---|---|---|
| Measured sound power level | ($L_{WA}$) | 67 dB (A) |
| Guaranteed sound power level | ($L_{WA}$) | 70 dB (A) |

This EU conformity declaration becomes null and void if any changes are made to the aforementioned machine that have not been authorised by the manufacturer.
Authorised representative for technical documentation is the signatory.
Address refer to manufacturer.

Asbach-Bäumenheim 17/07/2017

Johann Sailer
(Managing Director)

**Conformity Notice - Charger**
**L2530 Charger LI–Ion 220-240 V**

This charger has been manufactured and marketed in conformity with the following directives:

| | |
|---|---|
| 2014/35/EU | Low Voltage Directive |
| 2014/30/EU | EMC Directive |
| 2011/65/EU | Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment |

The complete EC Declaration of Conformity is available at **GEDA-Dechentreiter GmbH & Co. KG**.

**GEDA-Dechentreiter GmbH & Co. KG**
Mertinger Str. 60
DE-86663 Asbach-Bäumenheim

# Table of Contents:

**Chapter** **Page**

# 1 General information

## *1.1 Information about the instruction manual*

This instruction manual is an essential aid to operating the device **successfully and hazard-free**.

The instruction manual contains important instructions on how to operate the device **safely, correctly and efficiently**. Compliance helps to avoid hazards and increases the reliability and service life of the device.

The instruction manual must be **available at the device at all times** and must be read and applied by every person commissioned to work on/with the device, e.g.:

- operation, fault rectification during work, disposal of operating materials and auxiliary supplies,
- assembly, maintenance (servicing, general maintenance, repairs) and/or transport

You will come across a series of illustrations and symbols while reading this manual intended to help you navigate through and understand this manual. The different meanings are explained below.

| Text display | Meaning |
|---|---|
| **Bold type** | Emphasises particularly important words/passages |
| - Enumeration 1 | Denotes enumerations |
| • Enumeration 2 | Denotes enumerations |
| (brackets) | Item numbers |
| ➢ Handling instruction | Handling instruction to personnel. Always given in chronological order |

**Images**

The illustrations used refer to a specific type of device. For other types of device they may possible only serve as schematic. The fundamental function and operation is not affected by this.

The **structural elements** in this instruction manual appear as follows and have the following meaning:

**Health and safety symbol**
This symbol is found next to all safety instructions where there is a risk of injury or fatality. Observe these instructions and be very cautious!

| Warning level | | Consequence | Probability |
|---|---|---|---|
| ⚠ | **DANGER** | Death/serious injury | is imminent |
| ⚠ | **WARNING** | Serious injury | possible |
| ⚠ | **CAUTION** | Minor injury | possible |
| | **CAUTION** | Property damage | possible |

**Attention information**
found at points where special information or instructions and restrictions regarding damage prevention are given in order to prevent damage to the equipment.

**Note**
found at points where information is given about using the device economically or instructions are given regarding the correct working procedure.

## *1.2 Abbreviations*

The following abbreviations may be used in the manual.

| | | | |
|---|---|---|---|
| max. | maximum | Nm | Newton metre |
| min. | minimum | km/h | kilometres per hour |
| Min. | minutes | mph | miles per hour |
| etc. | and so on | incl. | including |
| poss. | possible/possibly | if nec. | if necessary |
| e.g. | for example | i.e. | id est (that is) |
| ml | millilitres | reg. | regarding |
| mm | millimetres | RH | relative humidity |
| °C | degrees Celsius | approx. | approximately |
| °F | degrees Fahrenheit | Ø | diameter |
| ft. | feet | ® | registered trademark |
| ft/m | feet per minute | © | copyright |
| m/min | metres per minute | TM | trademark (trade name) |
| in. | inches | % | per cent |
| etc. | et cetera | ‰ | per thousand |
| lbs. | pounds | dB (A) | sound pressure level |
| lbf.-ft | pounds per feet | LWA | sound power level |
| kg | kilogram | > | greater than |
| l | litre | < | less than |
| gal. | gallons | ± | plus or minus |
| kip. | kilopound | | |

## 1.3 Details about the device

| | |
|---|---|
| Device type | GEDA BatteryLadder LIFT |
| Serial number: | **65000** _____ |
| Year of construction: | Refer to identification plate |
| Documentation version: | 07/2017 |

## 1.4 Name and address of the manufacturer

GEDA- Dechentreiter GmbH & Co. KG
Mertinger Strasse 60
86663 Asbach-Bäumenheim
Tel.: +49 (0)9 06 / 98 09-0
Fax: +49 (0)9 06 / 98 09-50
Email: info@geda.de
Web: www.geda.de

**Representatives of the manufacturer**

| **Bergkamen Subsidiary** | **Gera Subsidiary** |
|---|---|
| GEDA Dechentreiter GmbH & Co. KG<br>North-West<br>Marie-Curie-Strasse 11<br>59192 Bergkamen-Rünthe<br>Tel. +49 (0)2389 9874-32<br>Fax. +49 (0)2389 9874-33 | GEDA Dechentreiter GmbH & Co. KG<br>East<br>Ernst-M.-Jahr Strasse 5<br>07552 Gera<br>Tel. +49 (0)365 55280-0<br>Fax. +49 (0)365 55280-29 |
| **U.S. Subsidiary** | **Russia Subsidiary** |
| GEDA USA, LLC<br>1151 Butler Road<br>USA 77573 League City, Texas<br>Tel. +1(713) 621 7272<br>Fax. +1(713) 621 7279<br>Web: www.gedausa.com | GEDA RUS, LLC<br>Yaroslavskoe shosse 42<br>129337 Moscow<br>Russian Federation<br>Tel. +7(495) 663 24 48<br>Fax. +7(495) 663 24 49<br>Web: www.geda-ru.com |
| **Turkey Subsidiary** | **Korea Subsidiary** |
| GEDA MAJOR<br>IS VE INSAAT MAKINALARI SAN. TIC. LTD. STI.<br>Semsettin Günaltay Cad. No:224 A Blok K:2 D:5<br>Tüccarbasi/Erenköy<br>TR-34734 Istanbul/Turkey<br>Tel.: +90 (216) 478 2108<br>Fax: +90 (216) 467 3564<br>Web: www.geda.com.tr | GEDA KOREA<br>1708, (MetroDioVill Bldg., Singongdeok-dong) 199, Baekbeom-ro, Mapo-gu,<br>Seoul 04195<br>Korea<br>Tel.: +82 2 6383-7001<br>Fax: +82 2 6383-7009<br>Website: www.geda-korea.com |

## *1.5 Notes about the author and industrial property rights*

All documents are protected in terms of copyright law. Dissemination and reproduction of documents (even parts thereof), as well as recycling or communication of their contents are prohibited unless expressly permitted in writing.

Violations are an offence and incur an obligation to pay compensation. All rights to exercise industrial property rights are reserved by **GEDA**.

## *1.6 Instructions for the operating company*

This instruction manual is an essential component of the device.
The operating company must ensure that operating personnel are informed about these guidelines.

The operating company must supplement the instruction manual with **operating instructions** based on existing **national regulations for accident prevention** and for the **protection of the environment**, including information regarding supervisory and reporting duties that take account of company-related specifics, e.g. with reference to work organisation, work procedures and the personnel employed.

In addition to the obligatory **regulations for accident prevention and industrial safety** that apply both in the country of use and at the place of use, accepted professional rules for working safely and competently must also be observed.

**First aid facilities** (first aid kit, etc.) must be kept within reach!

The user operating the device **must not make any changes, additions or modifications** to the device that could impair safety without permission from the manufacturer! This also applies to installing and adjusting safety equipment, as well as welding on load-bearing components.

Any **replacement and wearing parts** that are used must correspond to the technical requirements stipulated by **GEDA**. This is ensured with **original replacement parts**.

Only employ **qualified and/or trained personnel** for the tasks described in this manual.
The operating company is obliged to train all persons authorised to using the device in the correct handling of the device before using it for the first time, according to the respective area of activity and responsibility, by means of practical exercises.
This **training** must be documented and **repeated at regular intervals**.
The legally permissible minimum age must be observed!

## 1.7 Intended use

The **GEDA BatteryLadderLIFT** is an inclined lift with a platform not for walking access and designed exclusively for transporting material.
It is used temporarily at construction sites and for relocation operations and is always operated via dead man's control by instructed operators.
The winch is directly integrated in the device, which runs on the special ladder. The load suspension system/ element consists of webbing.
The device is controlled by remote wireless control or smartphone application via Wi-Fi connection.
The **GEDA BatteryLadderLIFT** moves on a ladder specifically provided for this purpose. This ladder can also be used as step-ladder.

In addition, the **GEDA BatteryLadderLIFT** can be used as straight load winch when suspended.

The base unit **GEDA BatteryLadderLIFT** may only be operated with the battery type "**GEDA GL247**".

The battery may be charged only with the charger type "**L2530 Charger Li-Ion**".

Observe and comply with the instructions in Chapter 3 "Technical Data".

Any other use or any use (e.g. transportation of persons) going beyond this is not considered intended use.
**The operating company/user of the device is solely liable** for any damage resulting from such action. This applies equally to any unauthorised changes to the device.

**Intended use includes**

- compliance with the assembly, operation and maintenance provisions (assembly and instruction manual) provided by the manufacturer.
- consideration of foreseeable misconduct of other persons.
- observation of the corresponding national regulations.

☞ **The GEDA BatteryLadderLIFT is suitable for temporary use.**
**Any other locations or intended uses require written approval from the manufacturer.**

### 1.7.1 Requirements on the assembly, operating and maintenance personnel

The device shall only be assembled, operated and maintained by instructed persons who can be guaranteed to act properly on the basis of their knowledge and practical experience, and who have been alerted to the existing hazards.

These persons must:

- have been appropriately instructed and informed about the risks.
- be familiar with the assembly and instruction manual.
- observe national regulations.

### 1.7.2 Improper use

The **GEDA BatteryLadderLIFT**

- is not designed for permanent installation.
- must not be set up without anchors.
- must not be operated by persons who have not been trained on the device, who are not familiar with the instruction manual or by children.

**Consequences of improper use of equipment**

- Danger to life and limb of the user or a third party.
- Damage to the device and other property.

# 2 General safety information

The device has been designed and built according to the latest standards of technology and recognised safety-related rules. Nevertheless, hazards for personnel or third parties and/or damage to the device and other property may occur during use, e.g. if the device:

- is operated by untrained or uninstructed personnel,
- is used improperly,
- is assembled, operated and serviced inappropriately.

Attached notices and warning signs must be observed!

**Consequences of not complying with safety instructions**
Non-compliance with safety instructions can result in danger both for personnel as well as for the environment and the device. Non-compliance can lead to the forfeiture of any damage compensation claims.

## *2.1 Residual risks*

There are still residual risks remaining from handling the device even when all safety conditions are complied with.

Everyone who works on and with the device must be aware of these hazards and follow instructions that prevent these residual risks leading to accidents or damage.

**Caution**

- Hazards from improperly secured device.
- Hazards from improperly secured load.
- Hazards from damage to the platform.
- Hazards when loading and unloading the platform.
- Hazards from improper use of the ladder if the **BatteryLadderLIFT** is mounted on the ladder.
- Do not remove safety stickers; replace any safety instructions that have become illegible.
- Hazards from malfunction in the control system.
- Injuries due to uncoordinated work methods.
- Hazards due to high wind speeds > 45 km/h.

## 2.2 *Safety instructions for operating personnel*

The instruction manual must be within reach at all times **at the location of the device's use**.

The device may only be used in a technically fault-free condition, as well as **in accordance with the intended use, in a safety-conscious manner aware of the hazards**, and while observing the instruction manual! In particular, faults that could impair safety must be eliminated immediately!

In addition, the device may only be operated if all **safety features are present and functioning**!

Check the device at least **once each working day** for externally identifiable damage and defects! Immediately report any changes (including changes to the operating behaviour) to the office/person in charge. If necessary, shut down and secure the device immediately! The **responsibilities** for different jobs within the context of operation, servicing and maintenance of the device must be clearly stipulated and adhered to. This is the only way to avoid mistakes especially in hazardous situations.

The pertinent **rules for prevention of accidents** as well as the other, generally recognised, safety-related and industrial-health-related rules must be adhered to.

**WARNING**

**Risk of injury**
The operator is obliged to wear **personal protective equipment** as appropriate to the local conditions.

**Switch-on and shut-down procedures, including emergency shut-down**, must be observed in accordance with the instruction manual for all work that affects operation, and for conversions and adjustments to the device and its safety features.

## *2.3 Safety instructions for transport*

Immediately report **transport damage** and/or **missing parts** to the supplier.

During transport work, wear a **safety helmet, safety shoes** and **safety gloves!**

**Never step under suspended loads!**

When selecting lifting equipment, always take into account the **maximum suspended loads!**

Please refer to the **dimensions and weights** in the Chapter “Technical Data” (3).

Load and transport only equipment that has been carefully **disassembled, packaged and lashed**.

Always ensure that the device is transported **without being knocked or jolted**.

Observe the **pictograms on the packaging**.

Only sling to the **designated slinging points**.

Always secure transported loads **against falling or tipping over!**

## *2.4 Safety instructions for operation*

**Operate** the device only under consideration of the instruction manual, **when it is fully serviceable and in a safety and hazard-conscious manner**.

During **work breaks** (including changing accessory parts), switch off the device and pull out the rechargeable battery.
The **ON / OFF** switch must function!

Generally **secure the hand-held transmitter against unauthorised access!**
Log off/close the smartphone application.

In situations that present a **risk to the operating personnel** or the device, the **BatteryLadderLIFT** can be stopped by pressing the **EMERGENCY STOP** button.

Shut down and lower the device at wind speeds >45 km/h.
(wind force 5- 6)

No one is allowed in the danger area of the inclined lift. Ensure that the danger zone is suitably cordoned off at the construction site and identified.

## *2.5 Safety instructions for servicing, maintenance and troubleshooting*

**Operating personnel** must be **informed** about how to carry out special work and maintenance work before they start.

**Deadlines** that are stipulated or stated in the instruction manual for recurring **tests/inspections** must be adhered to.

The **maintenance area** must be **cordoned off** as extensively as required!

Before any maintenance work, the device must generally be shut off
- unload,
- with the **ON/OFF** switch,
- pulling the battery out of the base unit.

All **servicing and maintenance work** is only permitted when the **battery has been removed**. Manual intervention whilst the device is operating can result in serious accidents and is therefore forbidden. If it is necessary to **turn on the device during** such work, then this must only be done while **complying with special safety measures**.

☞ **For further instructions about maintenance / maintenance intervals / servicing, refer to the Chapter Maintenance.**

Any faults that could impair safety must be rectified immediately.

**Workshop equipment** that is suitable for the specific work is imperative for carrying out **servicing and maintenance tasks**. When carrying out maintenance tasks at greater heights, a fall-protection system must be worn! Keep all handles, railings and the work environment free from dirt and soiling.

Before starting with the servicing/repair tasks **clean** the device, in particular connections and threaded joints, from oil, operating fluids, soiling and maintenance products. Abrasive cleaning agents must not be used. **Loosened screw connections** during servicing and maintenance tasks must always be **tightened** using the necessary **torques**!

Do not change, remove, bypass or bridge safety devices.
If it is necessary to **remove safety devices** during servicing and repairs, the safety devices must be installed and **checked** immediately after completion of servicing and repair tasks!

Do not carry out any changes, mount parts on or make conversions to the device. This also applies to the installation and adjustment of safety devices such as limit switches.

Immediately replace damaged or detached notices and warning signs, as well as safety labels.

Ensure that auxiliary supplies, as well as replaced parts, are disposed of safely and in an eco-friendly manner (also refer to Chapter 11)

☞ **The aforementioned safety measures apply equally for work in the context of eliminating faults.**

## *2.6 Safety whilst working on the electrics*

Switch off the device immediately in case of **faults on electrical parts**!

Work on electrical components of the device must only be carried out by **qualified electricians** in accordance with electrical engineering rules! Only qualified electricians may access the device's electrics and work on it. **Always keep the switch box closed** whenever it is left unattended.

**Never work on live parts! Device parts on which inspection, maintenance or repair work** is to be carried out must be **disconnected from the mains** (unplug battery!). Lock away the battery and thus secure it against being plugged in. The isolated electrical components must first be checked for the absence of electrical current.

If **work must be carried out on live components** (only in exceptional circumstances) an **additional person** must be present to operate the **ON/OFF** switch of the device in the event of an emergency. Use only insulated tools!

During repairs, make sure that **design features** are not **modified** so that they have a negative influence on safety. (e.g. creeping distances, clearances and distances must not be made smaller by insulation).

## 2.7 *Safety notes for the Li-Ion battery*

**DANGER**

**Danger to life**

If lithium-ion batteries are used incorrectly or improperly, they may catch fire, explode or cause a fire.

Protect the battery against heat and fire.

Observe the permissible temperature range.

Charge → between **approx. 0 °C** and **+45 °C**
Discharge → between **approx. -20 °C** and **+60 °C**

Protect the battery from rain and moisture and do not immerse in fluids.

**Batteries contain flammable or caustic solutions and lithium salts, which may cause irritation to the skin, eyes and mucous membranes in case of leakage. When batteries are vented, escaping vapours may be harmful.**

- Keep battery away from metal objects.
- Do not short-out, bypass or use battery for other purposes.
- Do not expose battery to high pressure.
- Do not expose battery to microwaves.
- Protect battery against chemicals and salts.
- Do not open, damage or puncture the battery.
- Do not use defective batteries any longer.

**WARNING**

**Risk of injury**

Remove the battery during work breaks, transport, storage, maintenance or repair.

- Store removed batteries cool and dry.
- Do not transport batteries in conductive packaging.

Refer to the product safety data sheet in the appendix of this manual for battery disposal.

## *2.8 Safety notes for the charger*

**Operate** the charger only under consideration of the safety notes **when it is fully serviceable and in a safety and hazard-conscious manner**.

**Deadlines** that are stipulated or stated in the instruction manual for recurring **tests/inspections** must be adhered to.

- Observe the minimum and maximum charge temperature (see Technical data, chapter 3.4.3)!
- Do not open the charger.
- Do not expose the charger to moist or wet conditions.
- Use exclusively in closed rooms.
- Keep the ventilation slots clean and free from all metal chips.
- Never carry the charger by its power cord nor pull on this cord when unplugging it.

☞ **Use in residential areas.**
**The charger generates and uses radio frequency energy and may emit such energy. If the charger is <u>not</u> installed and used as outlined, dangerous interference of radio communication may occur.**

# 3 Technical data

## *3.1 Operating and environmental conditions*

**The device may only be operated when the following operating and environmental conditions are adhered to:**

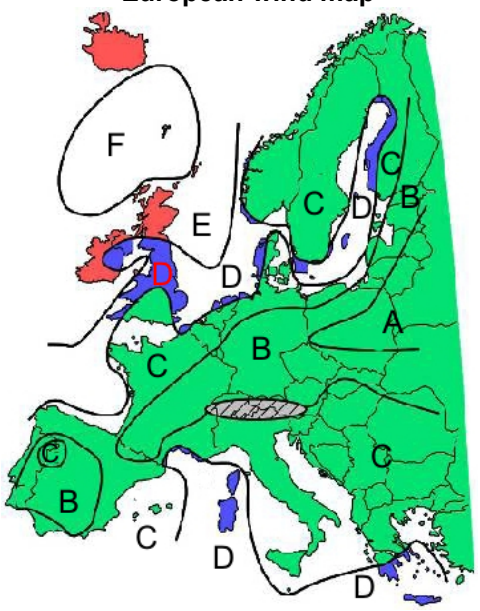
| | | |
|---|---|---|
| Temperature range: | minimum | -15 °C |
| | maximum | +40 °C |

**Recommendation:**
At temperatures **below 0 °C**, perform an empty run for starters over the entire height of the structure to warm up the device. This will warm up the battery, motor and gear box increasing their performance significantly.

**Wind speed:**
Operation / assembly / maintenance / Maintenance — maximum of 45 km/h

**Wind loading out of service**

**European wind map**




| Assembly height H[m] | Wind forces for geographical regions [N/m²] | | | |
|---|---|---|---|---|
| | **A/B** | **C** | **D** | **E** |
| 0<H≤10 | 544 | 741 | 968 | 1225 |

**CAUTION**

**Out of service** is the set up ladder length limited according to the respective wind region (see table below). The ladders must be disassembled.

| Wind regions | A/B | C | D | E |
|---|---|---|---|---|
| Maximum set up ladder length out of service | 10 m | 9 m | 7 m | 6 m |

**Weather conditions:**
No storms with risk of lightning.

It may be necessary to cease/prohibit operation of the device under extreme weather conditions, even if the operating and environmental conditions are within the conditions stated. For example, by the combined occurrence of heavy frost and storm. Here, the operating company must provide appropriate regulations.

**Atmosphere:**
No concentration of aggressive / corrosive substances, as well as (potentially explosive (fine particulate matter) must occur. If this cannot be safely excluded, then the corrosion protection and/or the functional reliability of the electrical components must be checked at regular intervals and they should, if necessary, be replaced. Fine particulate matter must be removed.

**Location of storage:**
If possible, the device should be stored in dry air to prevent corrosion.

## *3.1 Emissions*

Noise level ($L_{WA}$) < 70 dB (A)

## *3.2 BatteryLadderLIFT*

### 3.2.1 Speed

| | |
|---|---|
| Lifting speed | approx. 15 m/min |

### 3.2.2 Heights

| | |
|---|---|
| Ladder length | max. 10 m |
| Installation height | max. 1000 m (metres above sea level) |

## *3.3 Lean-to angle of the ladder track / load table*

| | |
|---|---|
| Lean-to angle | 65° – 80° |

The weight information in the load table applies only to the “Basic” platform (5.2 kg).
When using the **“Standard”** or **“Premium”** platforms, the weights given in the load tables are **reduced** by the **additional weight** of these platforms.

The load table states the permissible load capacities depending on the following factors:

- Total length of ladder
- Angle of inclination and
- Platform

|  |  | | |
|---|---|---|---|
| | **80°** | **70°** | **65°** |
| 10 m / 33 ft | 120 kg / 265 lbs | 100 kg* / 220 lbs* | 70 kg* / 154 lbs* |
| 9 m / 30 ft | 120 kg / 265 lbs | 120 kg / 265 lbs | 85 kg* / 187 lbs* |
| ≤ 8 m / ≤ 26 ft | 120 kg / 265 lbs | 120 kg / 265 lbs | 120 kg / 265 lbs |

Determine the angle of inclination for the ladder on the scale (**LIFT**Ladder **4500**) and read off the load capacity in the load table.

## *3.4 Base unit GEDA BatteryLadderLIFT*

| | |
|---|---|
| Rated voltage | 24 VDC |
| Rated current | 20.5 A |
| Capacity: | 350 W |
| On-time | S2 60% |
| Protection class | IP54 |


| | |
|---|---|
| Lifting force | max. 120 kg |
| Weight | 33 kg |

### 3.4.1 Webbing with triangle

| | |
|---|---|
| Designation / type | BA-17-0269 |
| Length of strap | 10.5 m |
| Width of strap | 49.0 – 51.0 mm |
| Thickness of strap | 0.7 -0.8 mm |
| Load capacity | max. [WLL] 160 kg |
| Breaking load | 11 kN |
| Material | PES |

### 3.4.2 Battery

☞ **The product safety data sheet is included with the battery when delivered.**

| | |
|---|---|
| Category | Lithium ion battery |
| Designation | **GEDA** GL247 with charge indicator |
| Rated voltage: | 25.2 V DC |
| Nominal capacity: | 9.8 Ah |
| Rated energy | 247.0 Wh |
| Charge temperature | min. 0 °C / max. +45 °C |
| Charging cycles | approx. 500<br>(at approx. 60% remaining capacity) |
| Chemical system | Lithium manganese oxide / graphite |
| Weight | approx. 1.94 kg |
| Protection class: | IP65 |
| Tests | IEC62133, UN 38.3 |

**Capacity indicator**

Switching on
➢ Briefly press the "**I**" button (1).
Indicator lights approx. 1 minute


| Possible indicators | | Condition |
|---|---|---|
|  | 3 x blue LED lit | Battery charged |
|  | 2 x blue LED lit | Battery capacity at approx. 50% |
|  | 1 x blue LED lit | Battery capacity at approx. 25% |
|  | 1 x blue LED flashing | Battery almost empty |
|  | All LEDs off | Battery empty |

### 3.4.3 Charger

| | |
|---|---|
| Designation | L2530 Charger Li-Ion 220-240 V |
| Input voltage | 220 V – 240 V |
| Frequency | 50 Hz – 60 Hz |
| Consumption | max. 70 W |
| Output voltage | 28.7 VDC |
| Charge current | max. 3 A |
| Battery type | **GEDA** GL247 |

Only this type of battery may be charged!

| | |
|---|---|
| Operating temperature | -5 to +60 °C |
| Charge temperature | 0 °C to +45 °C |
| Weight | 0.9 kg |
| Length of mains cable | 1.5 m |
| Protection class | protection class II, IP20 |

**Identifications on the charger**

**Warning**
Use the charger only in closed rooms.

**Caution**
The charger must not be disposed of with the domestic or general waste.

**Warning**
Do not expose the charger to moist or wet conditions.

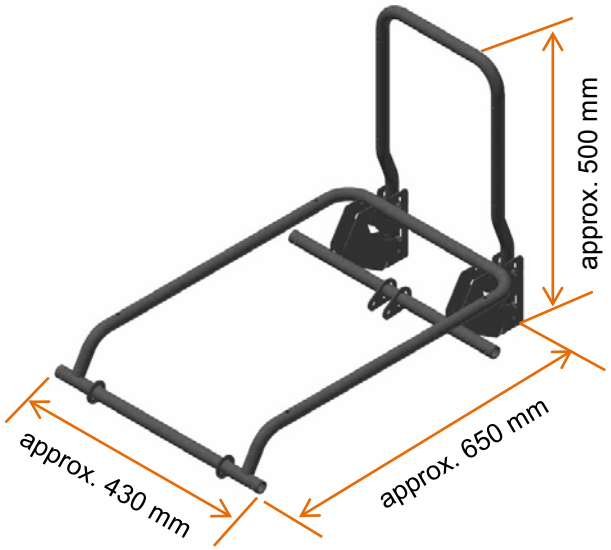
**Warning**
Do not expose the charger to fire, sparks or heat.

**Note**
Information on protection class (protection class II)

**Note**
Read the operating instructions before using the charger.

## *3.5 Platforms*

### 3.5.1 Platform “Basic”




| | |
|---|---|
| Lifting capacity | max. 120 kg |
| Effective rated load | max. 120 kg |
| Weight | 5.2 kg |

### 3.5.2 Platform “Standard”


| | |
|---|---|
| Lifting capacity | max. 120 kg |
| Effective rated load | max. 114 kg |
| Weight | 11.2 kg |

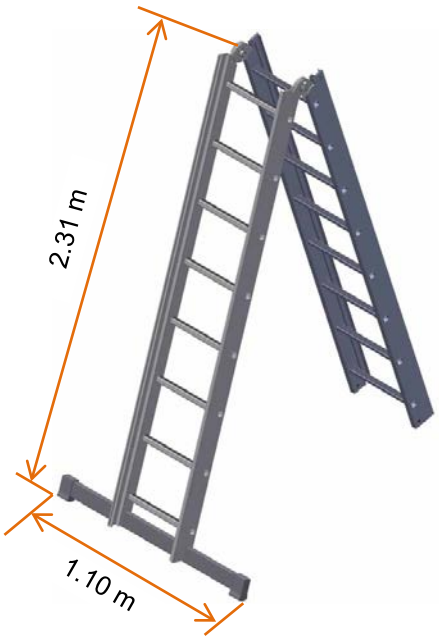
### 3.5.3 Platform “Premium”


| | |
|---|---|
| Lifting capacity | max. 120 kg |
| Effective rated load | max. 107 kg |
| Effective rated load without chassis | max. 110 kg |
| Weight | 17.7 kg |

## *3.6 Ladders*

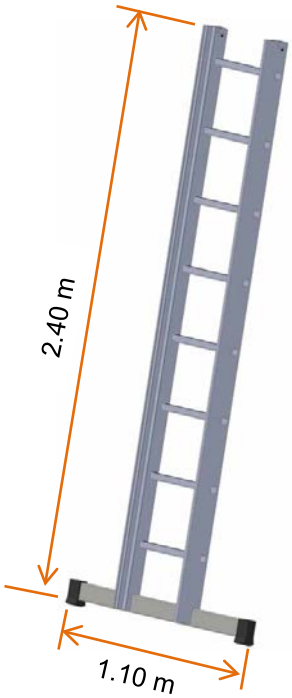
### 3.6.1 LIFTLadder 4500 -ladder

| | |
|---|---|
| Load capacity | 150 kg |
| Length (unfolded) | 4.50 m |
| Weight | 22 kg |




### 3.6.1 LIFTLadder 2400

| | |
|---|---|
| Load capacity | 150 kg |
| Weight: | 10,2 kg |



### 3.6.1 Ladder connectors (set)

Weight: 2 x 3.5 kg / 7.0 kg

# 4 Storage

## 4.1 BatteryLadderLIFT

Switch off the **BatteryLadderLIFT** and remove the battery.

Storage conditions:
- Outside the range of children.
- Clean and dry.

## 4.2 Batteries

If possible, store batteries with 40% charge of the nominal capacity.

Storage conditions:
- Outside the range of children.
- Clean and dry in a closed room.
- Separate from the **BatteryLadderLIFT** and the charger.
- In electrically non-conductive packaging.
- In the temperature range between approx. -20 °C and + 40 °C under 3 months.

Keep battery away from ignition sources and caustic fluids.

## 4.3 Charger

Pull the mains plug from the receptacle and remove the battery.

Storage conditions:
- Outside the range of children.
- Clean and dry in a closed room.
- Separate from the battery.
- In the temperature range between approx. -20 °C and + 60 °C
- Do not suspend from the connection cable.

# 5 Transport

**WARNING**

**Risk of injury**
Have the inclined lift transported by experienced and competent persons.

## *5.1 Inspection on receiving the device*

- Check the shipment for transport damage and for completeness according to the purchase order.
- Dispose of packaging/protective coverings according to legal requirements or keep them for later transport.
- Immediately notify the freight carrier (haulage company) and dealer of any transport damage.

## *5.2 Transporting the BatteryLadderLIFT*

The base unit and the ladder(s) are transported separately to the set-up location.
For dimensions and weights see Chapter 3.

➢ Switch off the base unit and remove the battery.
➢ Transport the **BatteryLadderLIFT** stable and lashed down (see national regulations on securing loads).

## *5.3 Transporting the battery*

Make sure the battery is in safe condition.

➢ Remove the battery from the base unit or charger.
➢ Secure the packaging so that it cannot be moved.

Packaging conditions
- The packaging is not electrically conductive.
- The battery cannot move inside the packaging.

The battery is subject to the requirements of hazardous materials transport. The battery is classified as UN 3480 (LITHIUM Ion batteries) and has been tested in accordance with the UN Manual [Tests and Criteria Part III, subsection 38.3].

☞ **The transport regulations are specified in the product data safety sheet.**

# 6 Assembly

**The BatteryLadderLIFT may only be erected by an instructed person!**

## 6.1 *Safety during assembly*

- Also observe the safety instructions in Chapter 2.
- Before starting work at the place of utilisation, acquaint yourself with the working environment, e.g. obstacles in the work and traffic areas and necessary safeguarding of the construction site from public transport.
- Check before each erection whether the webbing, the ladder, roller guide on the base unit and the hand-held transmitter are in perfect condition. Do not install the inclined lift when damaged!
  - Immediately replace damaged parts.
- Cordon off the danger zone of the inclined lift (red-white chain, etc.) and mark it.

**DANGER**

**Danger to life**
**Do not stand or work below the ladder!**
Never remain inside the cordoned-off area during operation.

**DANGER**

**Danger to life**
**Fall from the ladder.**
Only one person allowed on the ladder at a time.
Always hold on with at least one hand.
Always face the ladder to ascend and descend.
Keep the ladder free of dirt.

**The ladder may no longer be accessed by persons after the base unit has been assembled!**

**DANGER**

**Danger to life**
Maximum wind speed during assembly is **45 km/h**

- Note the load capacity according to the load table.
- The transport of persons is forbidden.
- Entering the platform is forbidden.
- Wear personal protective equipment (e.g. safety helmet, safety shoes, fall protection).

## 6.2 *Assembly procedure*

The installation plan shows the basic assembly stages and their chronological sequence. However, assembly is in principle based on the detailed instructions in this manual. If the sequence is changed, the amended installation plan must be checked by the operating company to ensure that it is sensible and that there are no potential hazards and must be subsequently approved.

| Assembly procedure |
|---|
| **Assembly of the ladder**<br>Lay out the ladder to its full set-up height on the ground<br>Connect the ladders (only for assembly height > 4.5 metres)<br>Unwind the webbing from the base unit<br>Fasten the head section to the upper end of the ladder |
| **Assembly of the BatteryLadderLIFT**<br>Set up the ladder and secure it<br>Hook the webbing on the head section<br>Mount the base unit onto the ladder and secure it |
| **Securing the landings**<br>Secure and mark the danger area on the ground. |
| **Inspection after assembly**<br>Check the device before each operation |
| **Instruct personnel authorised on using the device.** |

## 6.3 *Assembly of the inclined lift*

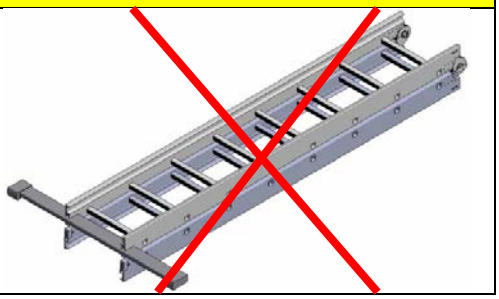
The **BatteryLadderLIFT** can be erected to a length of the ladder of 10 m.

Assembly is carried out without tools and directly at the work site.

☞ **The device may only be set up within an inclination angle of 65° - 80°!**

### 6.3.1 Assembly of the ladder

Because of the different set-up versions of the ladders, the length of the inclined lift can be adapted to the structure.

| **CAUTION** | |
|---|---|
| When <u>folded</u>, the LIFT$_{Ladder}$ 4500 may not be used as ladder track for the GEDA BatteryLadderLIFT! |  |

**<u>Shortest length of ladder 2.40 m</u>**

1 x **LIFT$_{Ladder}$ 2400**

## Length of ladder up to 4.5 m (Standard package)

➢ Pull out the locking device on both sides of the ladder until they engage.

**WARNING**

**Risk of injury**
Watch out for crushing and shearing points at the joint when unfolding the ladder!

➢ Carefully unfold the ladder to 180°.

Locking devices must engage on their own with an audible “clicking” sound.

**Check:**

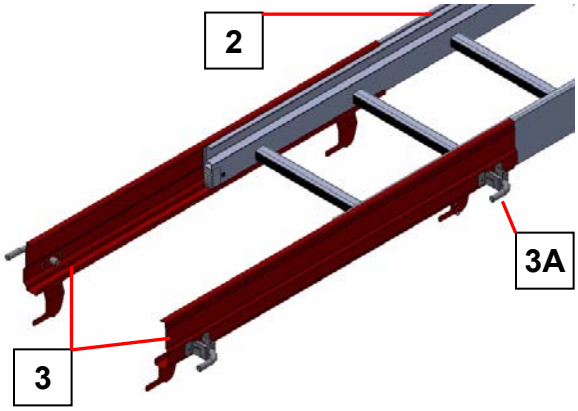
**Locking device must rest flush against the hinge on both sides of the step-ladder!**

1 x **LIFT**Ladder **4500**
(180° unfolded)

## Ladder connectors (set)

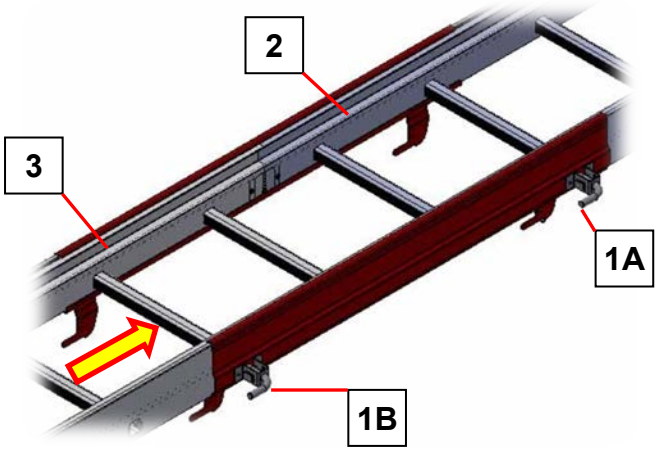
For ladder lengths > 4.5 m the step-ladder must be extended.

- Slide the ladder connectors (3) into the lateral profile of the **LIFTLadder 2400** (2).



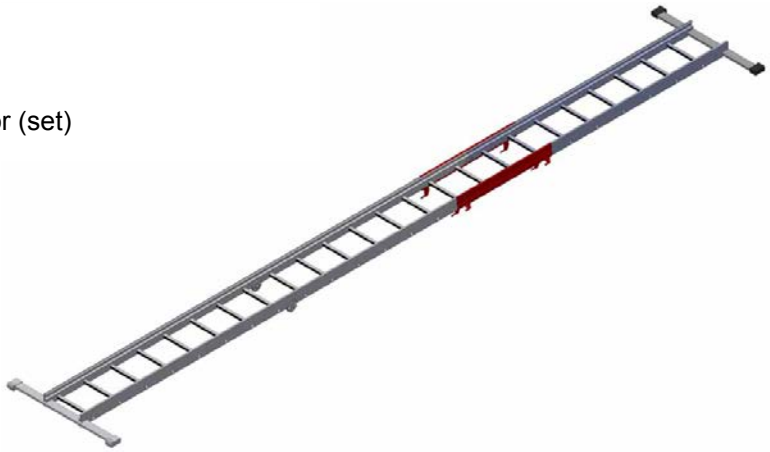

- On the second rung, swing out the locking pins (3A) on both sides, plug them into the openings of the rungs and let them fully engage.

- Slide the **LIFTLadder 4500** (3) into the ladder connectors (1) until they rest against the extension ladder (2).
- Swing out the locking pins (1B) on both sides toward the openings of the rungs and let them engage.



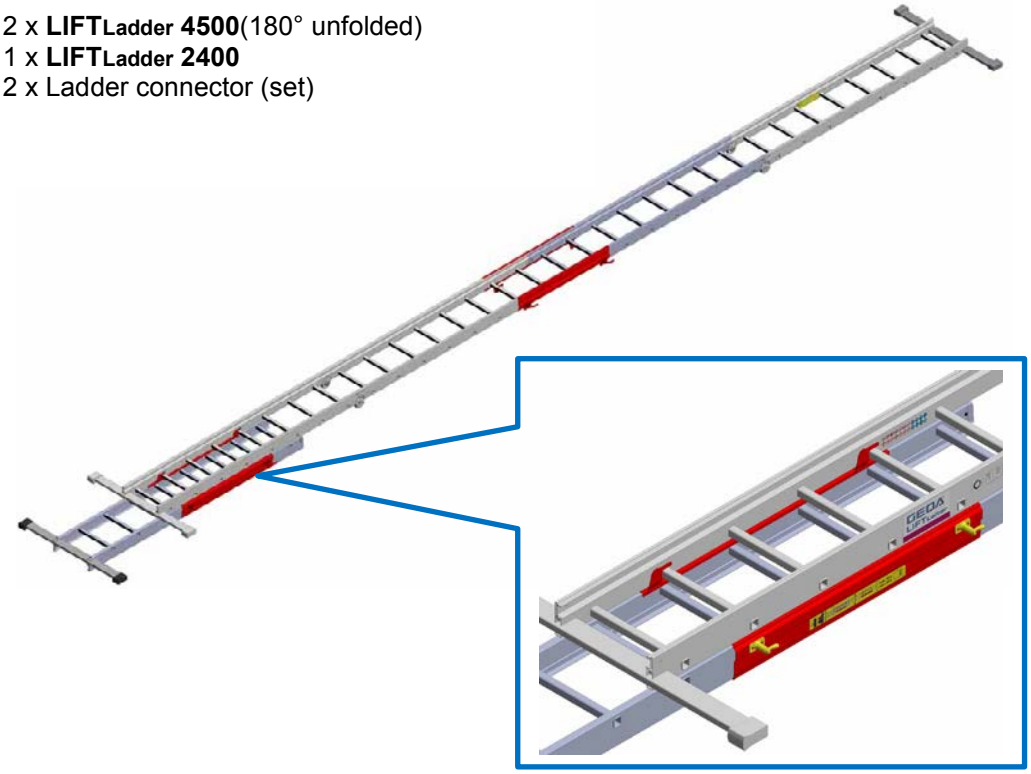
## Length of ladder up to 6.90 m (Comfort package)

1 x **LIFTLadder 4500**
(unfolded)
1 x **LIFTLadder 2400**
1 x Ladder connector (set)



## Length of ladder up to 10 m (Perfect package)

2 x **LIFTLadder 4500**(180° unfolded)
1 x **LIFTLadder 2400**
2 x Ladder connector (set)

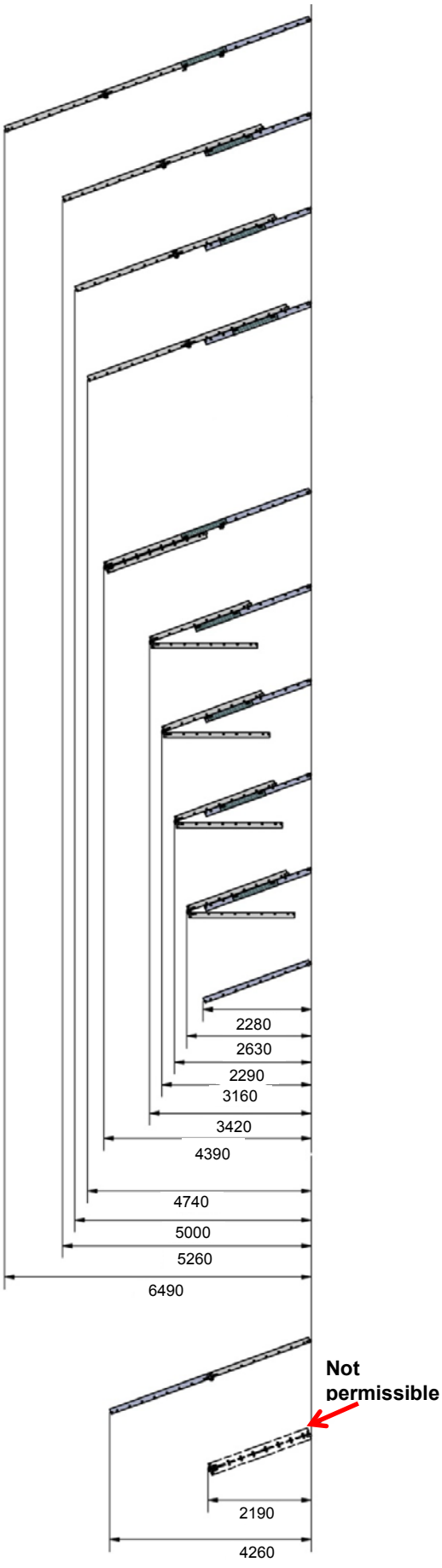


➢ Hook the **LIFTLadder 4500** on the hooks of the ladder connectors.

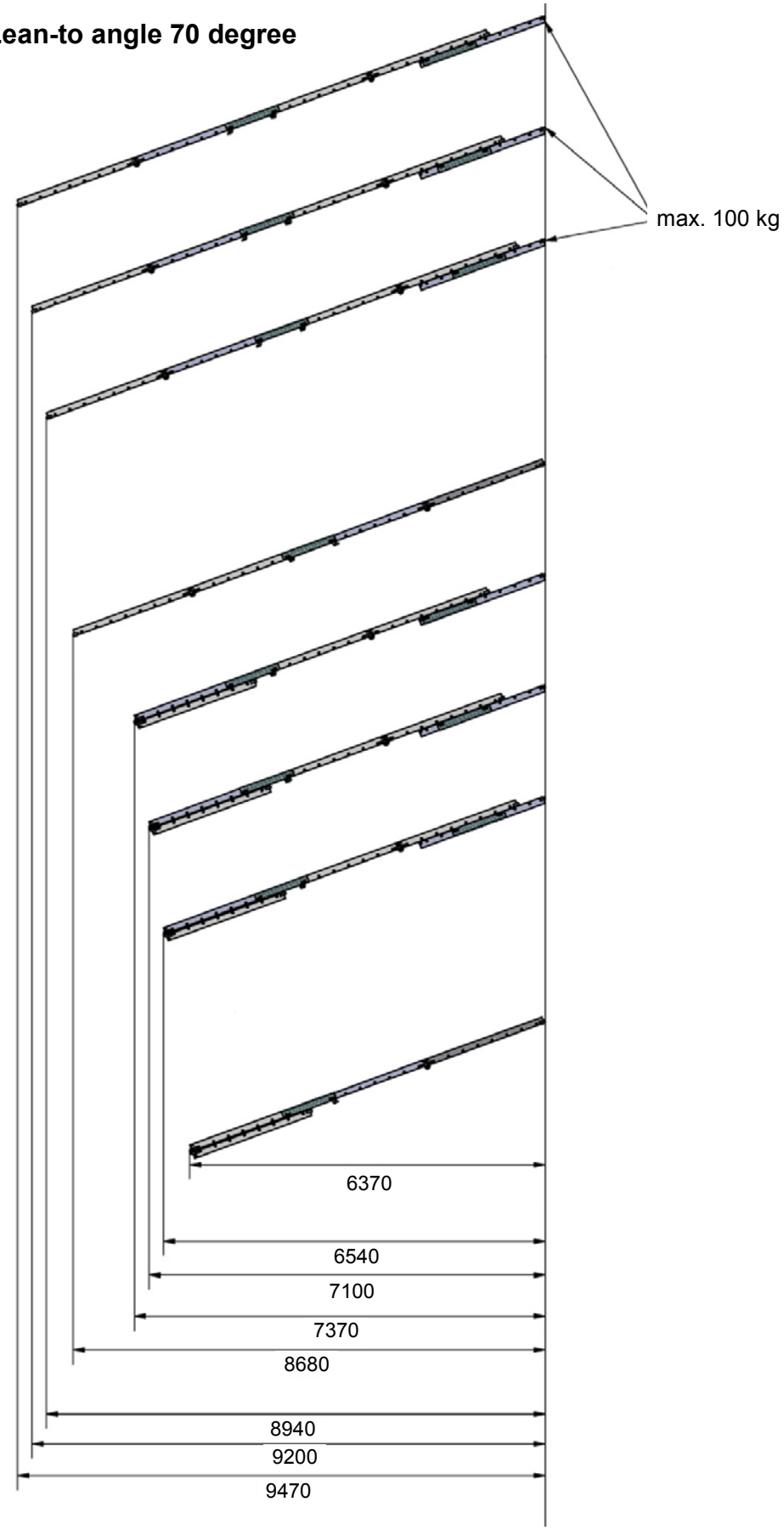
**Lean-to angle 70 degree**

☞ **The ladder length can be adapted to the structure by 0.28 m!**
**The exact adjustment of the unloading location is made through the incline of the ladder(s).**

☞ **For set-up versions with loosely suspended ladder section of the double ladder, it must be tied with a polyester strap to the ladder track.**



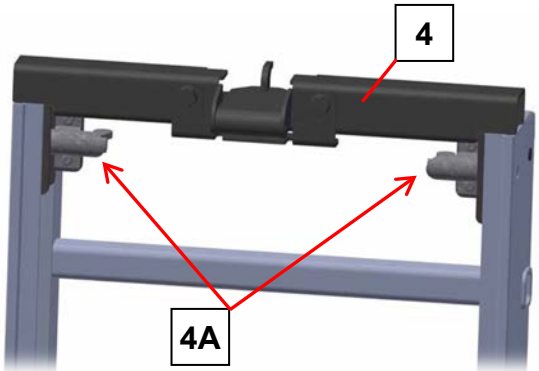
**Lean-to angle 70 degree**



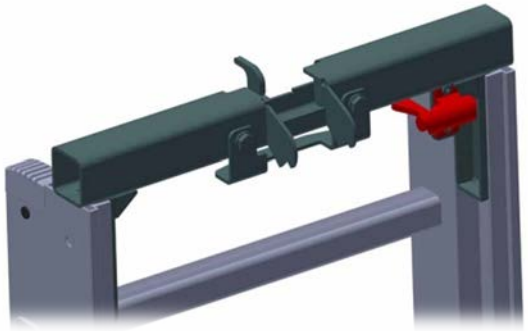
➢ Place the ladder with the rungs down on the ground.

Assemble the head section (4).

➢ Insert the head section into the upper end of the ladder and secure it with the locking pins (4A).

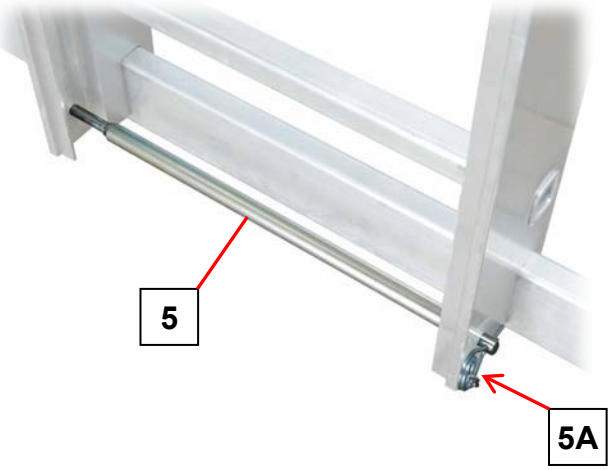



☞ **Head section up to production 11/2017 with one-sided locking pin.**



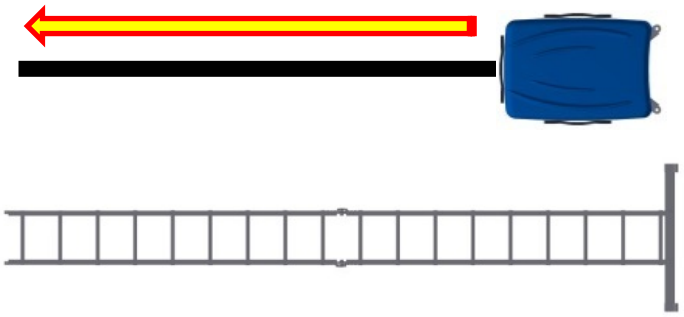
Install final bar.

➢ Insert final bar (5) at the lower end of the **LIFTLadder 4500** and secure it with spring cotters (5A).



- Plug the battery into the base unit (see Chapter “Commissioning”).
- Place the base unit next to the ladder and switch it on.
- Switch-on/activate the control.

**Operating the controls, see Chapter “Operation”.**



- Unwind the webbing under tension over the length of the whole ladder.

If the base unit should not start in spite of its prior activation, the webbing must be pulled more taut to possible disable the slack strap device.

**Make sure the webbing is unwound straight and without lateral pull and not longer than the ladder track.**

**The webbing can also be hooked to the head section before erecting the ladder track.**

**The webbing must not be hooked up twisted on the head section!**

### 6.3.2 Erect the ladder

**WARNING**

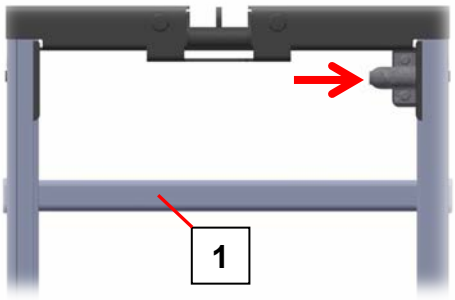
**Danger to life**
Remember the permissible inclination of the ladder (65° to 80°)!
Do not exceed the max. ladder length (10 m).
The ladder must always be secured against tipping.

Erect the ladder track at the installation site using suitable lifting equipment.

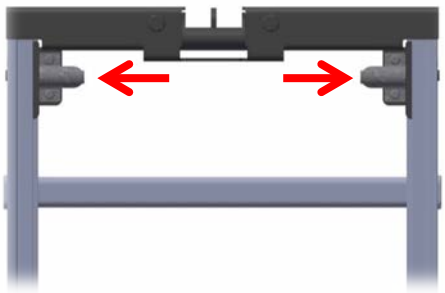
- ➢ If necessary, fasten a rope or hoisting loop on the head section and pull it up.

**CAUTION**

**Falling hazard of the ladder**
For head sections with one-sided interlock hook the lifting equipment must be fastened to the last rung (1) of the ladder.




**Head section with one-sided interlock hook**
Fasten lifting equipment to the last rung (1)!



**Head section with dual-sided interlock hook**
Fasten lifting equipment to the head section!

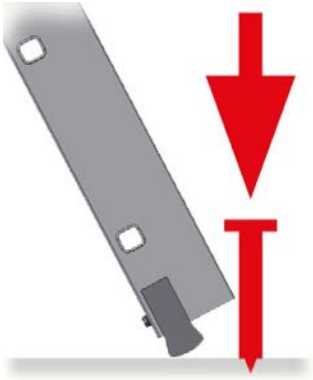
Adjust the angle of inclination of the ladder according to the scale on the step-ladder.

- Adjust the unloading height to the structure by adapting the angle of inclination.

- Secure upper area of ladder track, e.g. head section, against slipping (secure to building or lash down tightly).

- Anchor the ladder to the ground.

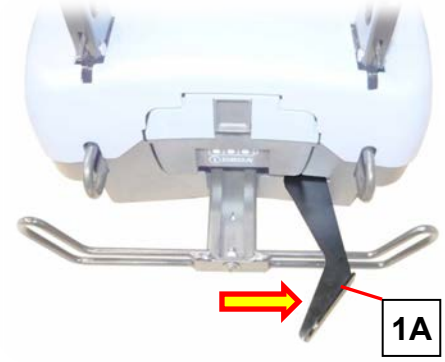
(Use earth spikes or bolts, depending on the ground condition).



### 6.3.3 Assembly of the base unit

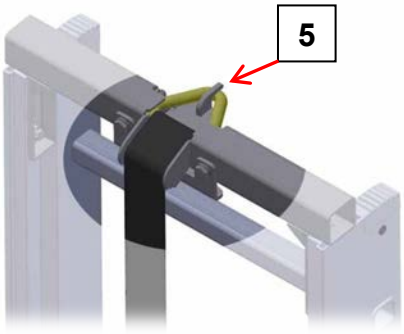
#### *6.3.3.1 Lifting the base unit with control to the ladder track*

- Unlock the roller guide on the catch lever (1A).




The ladder can be climbed to hook in the webbing.

- Hook the webbing on the head section (5).




**The webbing must not be hooked up twisted on the head section!**

- Switch-on/activate the control.
- Having the control unit in hand, hold the base unit by the lateral handles.
- Press the **UP** button and move the base unit to the operating height to the ladder.

- Release the **UP** button immediately once the base unit has come to rest on the ladder.

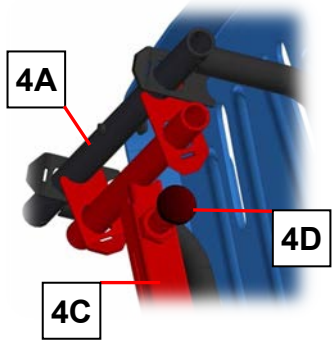
**Make sure that the webbing is spooled cleanly, without lateral pull; the webbing may otherwise hit the drum and sustain damage.**

### 6.3.3.2 *Assembly of base unit with “Premium” platform*

The “Premium” platform is fitted with practical transport rollers.
The “Premium” platform mounted on the base unit can be pulled directly to the ladder track by means of the transport rollers and assembled there.

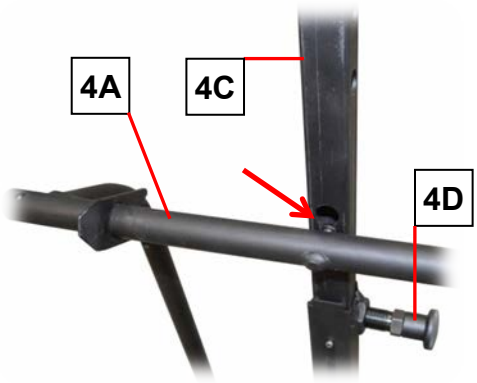
Swivel the telescopic tube from the transport position.

- Pull the spring catch (4D), push the telescopic tube (4C) down and swivel from the holding frame (4A) of the platform.




- Pull the telescopic tube (4C) apart and release the spring catch (4D) again.

- Hook the telescopic tube (4C) on the bolt of the holding frame (4A) and pull it up until the spring catch snaps in on its own




- Pull the base unit with the “Premium” platform in front of the ladder track.

- Put the telescopic tube back to the transport position.
- Tip the base unit toward the ladder track.

- Open the catch lever of the roller guide and mount the base unit on the ladder as described in Chapter 6.3.3.3.

**With this type of assembly, the base unit with “Premium” platform can be mounted on the ladder without lifting it!**
**The same applies to disassembly!**

**The base unit with “Premium” platform may be operated only with the transport rollers disassembled!**

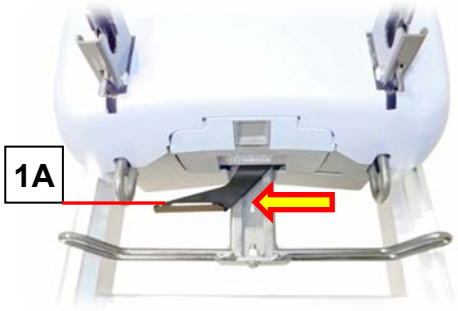
### 6.3.3.3 *Mounting the base unit on the ladder*

- Place the base unit (1) at an incline on the ladder (2) so that the roller guide (1B) engages with the ladder profile (2) on the left side.
- Put the base unit (1) on the ladder in the direction of the arrow.


**When locking the roller guide, the device is automatically centred on the ladder.**

Lock the roller guide with the catch lever (1A).

- Push the catch lever (1A) to the left.




**WARNING**

**Risk of injury**

The roller guide must be completely locked with the catch lever (1A) (lever in horizontal position).
The catch lever (1A) must be locked until the base unit is locked.
The ladder must not be stepped on again as soon as the base unit has been mounted on the ladder!

**Check:**

Roller guide unlocked

Roller guide locked

### 6.3.4 Assembly of the platform

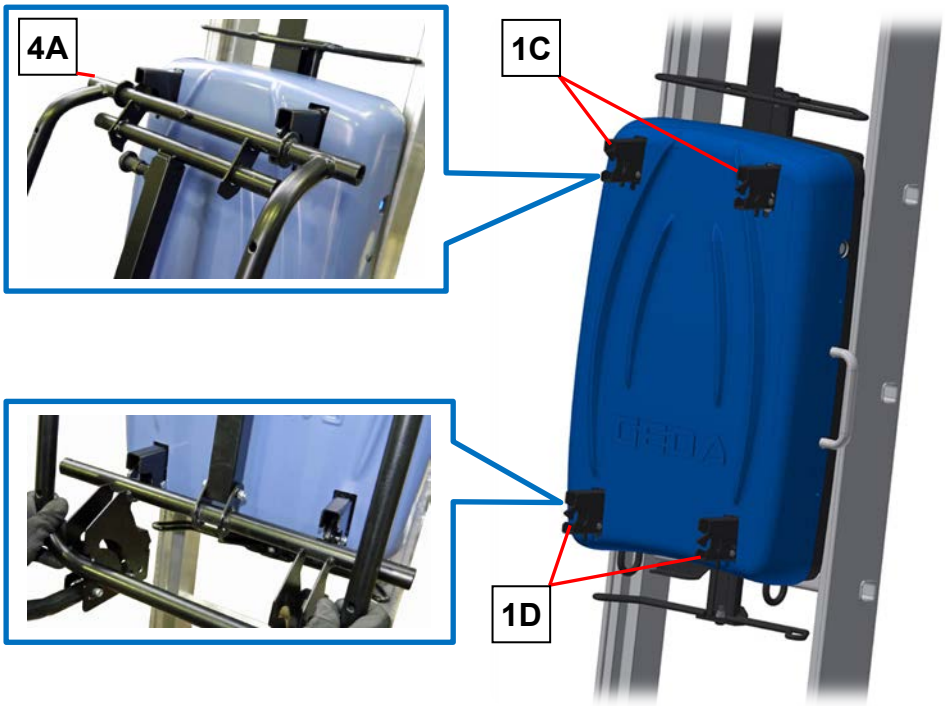
The platform(s) is/are also mounted on the base unit without the use of tools.

➢ Move the trolley to the operating height.

The platform is fastened to the base unit on 4 load carrying devices (1C).

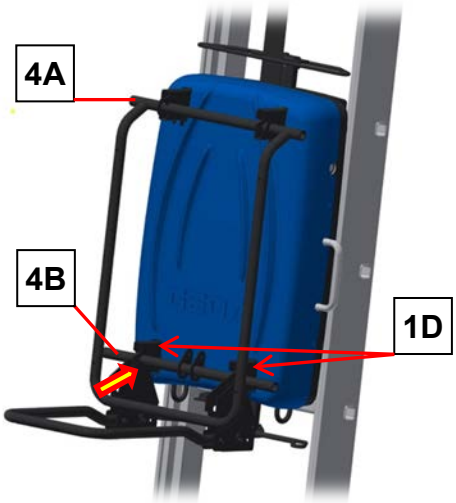
➢ Start the platform on the two upper load carrying devices (1A).

➢ Use the holding frame (4A) to slide the interlocking elements of the load carrying devices upward to press into the load carrying devices (1A).




**“Basic”** platform

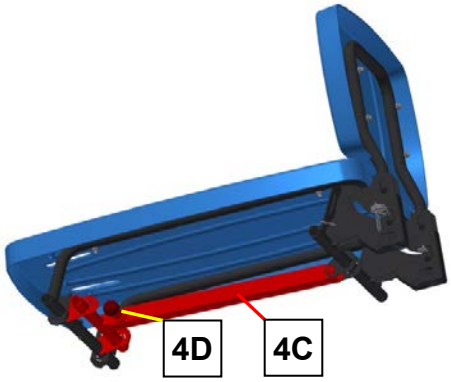
➢ Press the transverse tube at the bottom (4B) into the load carrying device (1D).



☞ **The “Standard” and “Premium” platforms can be mounted to the base unit, just as the “Basic” platform (with folded telescopic tube).**

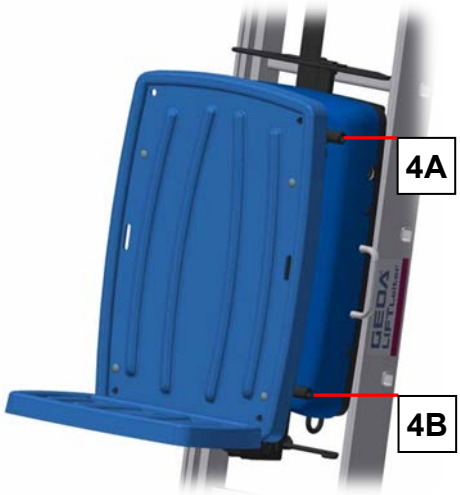
To facilitate the **“Standard” / “Premium”** platform without telescopic tube or easier transport, the telescopic tube (4C) can be parked in the frame of the platform.

- Pull the spring catch (4D) and swivel the telescopic tube (4C) into the frame of the platform.
- Release the spring catch (4D) again.



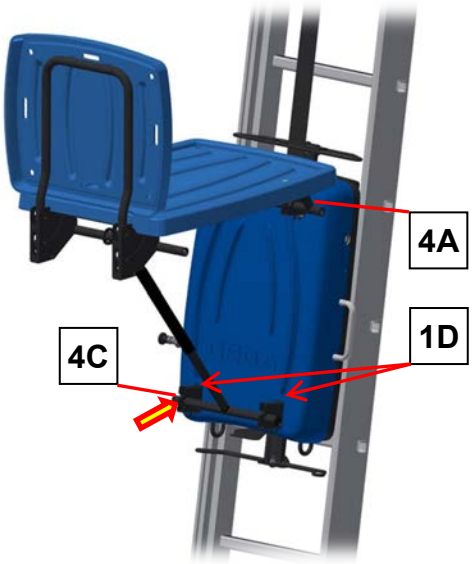

**“Standard” / “Premium”** platform without telescopic tube

- Press the transverse tube at the bottom (4B) into the load carrying device (1D).




**“Standard” / “Premium”** platform with telescopic tube

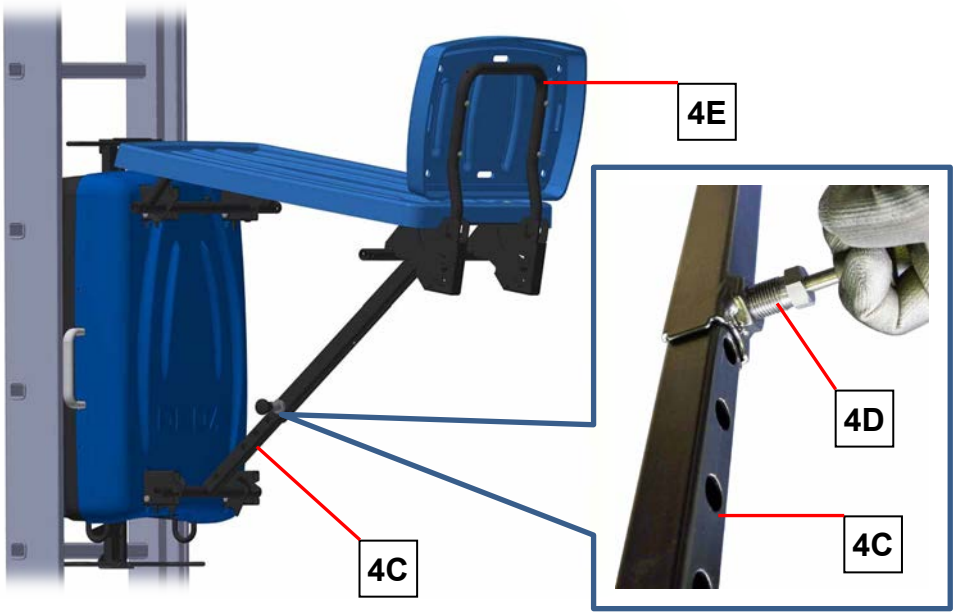
- Press the telescopic tube (4C) into the load carrying device (1D).



**When placed upright, the platforms “Standard” or “Premium” can be adapted to the angle of inclination of the ladder track (in 5° increments) and secured.**

Adjust the platforms horizontally or slightly inclined toward the ladder track [approx. 5°] and secure it.

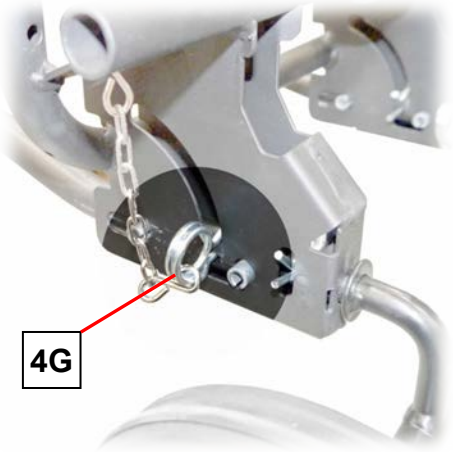
- Pull the spring catch (4D) and adjust the platform by shifting the telescopic tube (4C).




- Fix the telescopic tube (4C) with the spring catch (4D).

**Check:**

- Check whether the spring cotter (4G) secures the “Short side wall”.




**The “Short side wall” must be secured against unintentional folding away with a spring cotter (4G)!**

## *6.4 Check after assembly and before each operation*

- Check to ensure that
- the specified maintenance work and inspection procedures have been carried out.
- instruction signs are present and legible
- the danger zone at the lower loading point is cordoned off and indicated.

- Carry out a test run **without load** and check to ensure that
- the pendant control or smartphone application connects with the base device during operation.
- the motor rotation direction agrees with the **UP** and **DOWN** button of the control location and that the **STOP** button interrupts travel.
- the **UP** limit switch shuts off ascending travel and the **DOWN** limit switch shuts off descending travel.
- the slack rope switch shuts off in the event of slack webbing.
- the webbing shows no damage.
- the webbing is correctly wound onto the webbing drum.

- Carry out a test run **with load** (refer to the load capacity) and check to ensure that
- the motor brake correctly functions.
  (The device must come to a stop immediately.)

# 7 Operation

**The device may only be operated by an instructed person.**
**This person must be familiar with the instruction manual and been informed about existing dangers.**

## *7.1 Safety during operation*

- Also observe the safety instructions in Chapter 2.
- Transporting persons is prohibited!
- Do not enter the platform!
- Before starting work at the place of utilisation, acquaint yourself with the working environment, e.g. obstacles in the work and traffic areas and necessary safeguarding of the construction site from public transport.
- Operation of the inclined lift must be carried out outside the danger zone.
- Constantly observe the load from the operating position!
- When loading and unloading the device, always switch it off with the **ON / OFF** switch on the base unit to prevent any unexpected startup.
- Do not stand or work beneath the load!
- Always load the platform centrally.
- Always secure the load
  Position the load carefully on the platform; material that might tend to slip or is larger than the platform, or which could fall over, must be secured (consider also the possibility of sudden winds).
- Do not transport bulky parts that project over the side of the platform.
- Always secure the device against unauthorised use! - Remove the battery at the end of work/during breaks, and do not leave the hand-held transmitter lying about.
- Never leave loaded load carrying device at elevated positions after the end of work.
- Unload or move down the device first.
- Wear personal protective gear (e.g. head gear, safety shoes).
- Operation of the inclined lift must be stopped:
- at wind speeds over 45 km/h (= wind force 5-6; stronger winds).
- at temperatures less than -15 °C and more than +40 °C.
- if there is damage or other malfunctions.
- if recurring inspection is not carried out (refer to Chapter 9.1).

### 7.1.1 Barriers on the ground

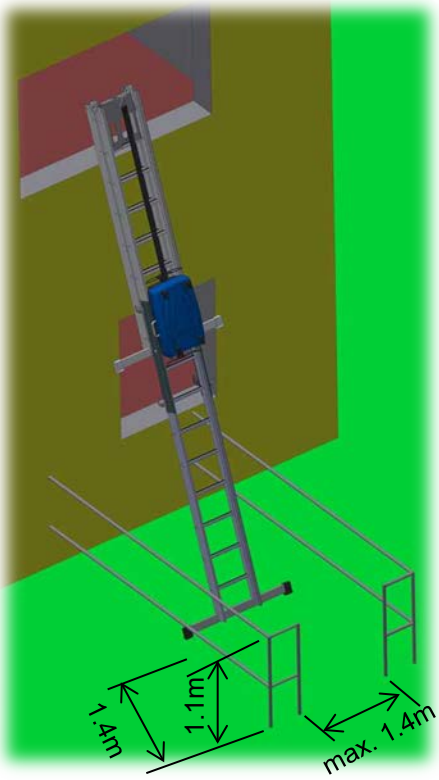
The danger zone, excluding the access point to the platform, must be cordoned off and identified.

**DANGER**

**Danger to life**
By crushing.
Never remain inside the cordoned-off area during operation.
Pull out the battery when working inside the cordoned-off area.

➢ Cordon off and indicate the hazard area.

The distance of the cordoned-off area to moving hoist parts must be a minimum of 0.5 m and maximum of 2.0 m.



## 7.2 Commissioning

➢ Slide the battery into the base unit.

The battery must engage audibly.

**Switching on the BatteryLadderLIFT**

➢ Briefly press the **ON / OFF** switch on the base unit.

Switch engages.

For confirmation, the blue illuminated ring around the switch lights up and is briefly interrupted (approx. every second) as long as the base unit was not activated by the hand-held transmitter or smartphone application.

➢ Press the **ON** button (2) and hold pressed for at least three seconds.

Hand-held transmitter and base unit are switched on.

For confirmation, the blue illuminated ring around the switch is lit continuously without interruption.

### 7.2.1 Checks before starting work

Check at least once a day for externally recognisable damage and defects. If necessary, shut down and secure the device immediately.

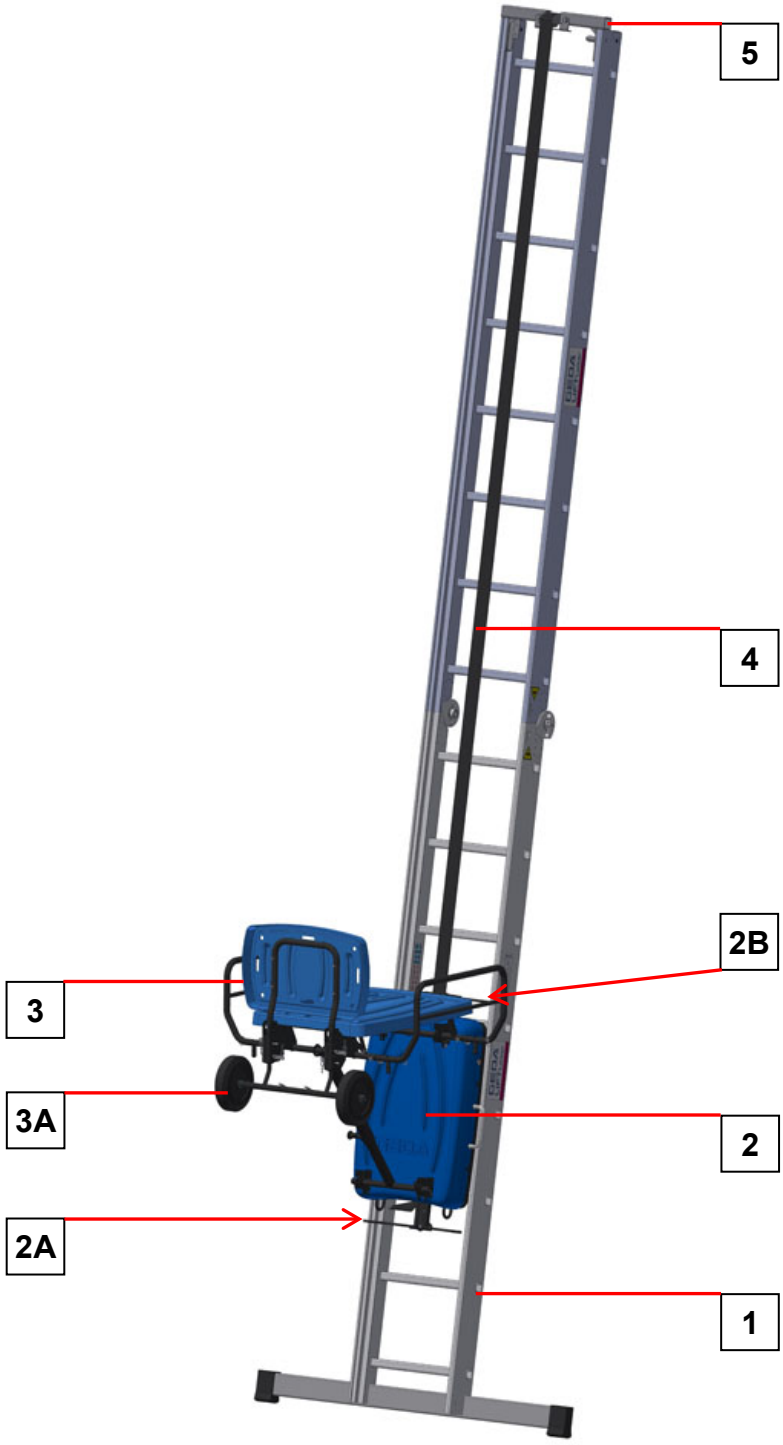
- Check the webbing guide and thus also the webbing break protection for easy movement.

- Carry out a test run without load and check whether the device functions properly.

**The BatteryLadderLIFT must stop immediately if**
- the **STOP** button on the hand-held transmitter is pressed.
- the **UP** limit switch is enabled.
- the **DOWN** limit switch is enabled.

☞ **During the test run, check the webbing for signs of damage and wear.**

## *7.3 Operation /Function*




1 = **LIFTLadder 4500**
2 = base unit **BatteryLadderLIFT**
2A = switch bar down
2B = switch bar up
3 = “Premium” platform
3A = chassis
(only with “Premium” platform)
4 = webbing
5 = head section

The **GEDA® BatteryLadderLIFT** is a compact inclined lift that is set up quickly and simply.

- Assembly is carried out without tools and directly at the work site.
- The base unit of the **BatteryLadderLIFT** can be inserted in the special step-ladder at any height and locked with a catch lever.
- The device with rollers travels up and down the ladder by means of webbing hooked in at the head section of the ladder.
- The lifting speed is approx. 15 m/min.
- The travel distance of the base unit is limited at the top by a switch bar (2B), which actuates the **UP** limit switch.

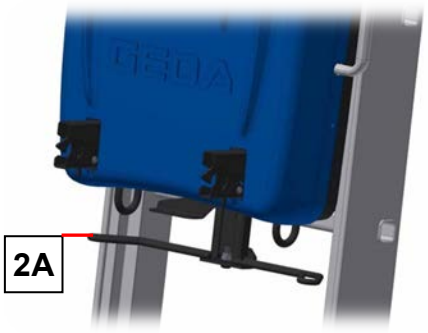
A head section must be installed at the upper end of the ladder.


Subsequently, travel in the **DOWN** direction is possible.

If the **UP** limit switch fails or the upper switch bar (2B) experiences a strong load because of an obstacle, the **EMERGENCY STOP** is triggered in the second switching step.
Travel can only continue once the bar is clear.

- The travel distance of the base unit is also limited toward the bottom by a switch bar (2A), which actuates the **DOWN** limit switch.

Subsequently, travel in the **UP** direction is subsequently possible.




If the **DOWN** limit switch fails or the lower switch bar (2A) experiences a strong load because of an obstacle, the **EMERGENCY STOP** is triggered in the second switching step.

☞ **During operation, the BatteryLadderLIFT should not be moved down to the ground or the final bar.**
**The webbing tightens when loading the platform, and the switch bar (2A) may sustain damage at this.**

Travel can only continue once the bar is clear.

**Caution** when using a **LIFT**Ladder **2400** at the lower end of the ladder track!


**The base unit must not be able to travel outside the ladder!**

**The final bar is an EMERGENCY device that prevents the base unit to drive out from the ladder.**
**The final bar must be installed at the lower end of the LIFT**Ladder **4500!**

- The slack rope switch shuts off automatically when the webbing becomes slack.

Travel can only continue once the webbing has been pulled taut.

**If no automatic shut-off takes place when hitting an obstacle, the descent must be stopped immediately to prevent the belt from being unwound any further.**

Control is operated outside the danger zone using wireless hand-held transmitter.
The wireless range is approx. 10 m.

Alternatively, the **BatteryLadderLIFT can be controlled** via a **GEDA App** from the smartphone.
The wireless range is approx. 20 m.

**WARNING**

**Risk of injury**
It must be ensured that the platform can always be observed from the operating position.

### 7.3.1 Control with the wireless hand-held transmitter

☞ **If the wireless hand-held transmitter is activated, no smartphone application can be connected with the BatteryLadderLIFT.**

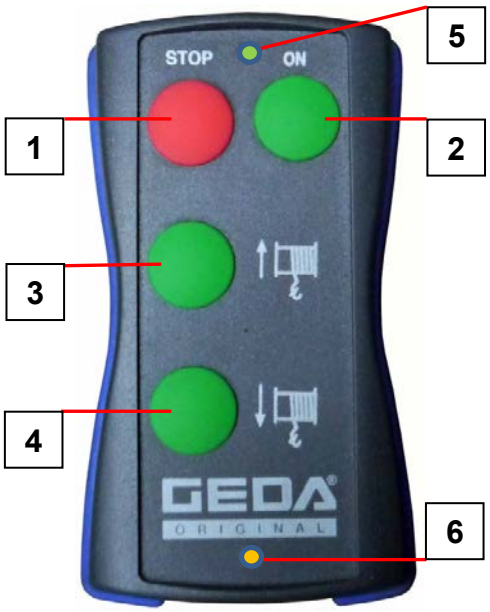
☞ **If two or more BatteryLadderLIFTs are within range of the hand-held transmitters, they cannot be operated simultaneously for safety reasons!**

If radio signals are received from different hand-held transmitters, the receivers of the basic devices switch off.

1 = **STOP** button
2 = **ON** button
3 = **UP** button
4 = **DOWN** button

5 = LED for wireless status
flashes in case of wireless contact with the device
6 = battery charge indicator for hand-held transmitter
OFF = battery charge condition OK
ON = battery charge condition too low

| | |
|---|---|
| Radio frequency: | 869 MHz / 2 channel |
| Range: | approx. 10 m |
| Battery: | 3 x AAA |




**<u>Switching on</u> the hand-held transmitter**
➢ Press the **ON** button (2) and hold pressed for at least three seconds.
Hand-held transmitter and base unit are switched on. The illuminated ring on the **ON / OFF** switch of the base unit lights continuously.

***<u>Ascent</u>***
➢ Press and hold the **UP** button (3).
Ascent only as long as the **UP** button (3) is pressed.
Ascent stops when hitting the head section (**UP** limit switch).

***<u>Descent</u>***
➢ Press and hold the **DOWN** button (4).
Descent only as long as the **DOWN** button (4) is pressed.
Descent stops at the latest when hitting the ground (webbing slackens).

**<u>Shutting down or switching off</u> the hand-held transmitter**

➢ Briefly press the **STOP** button (1).

The hand-held transmitter is switched off.

☞ **The hand-held transmitter switches off automatically if no operation takes place for approx. 5 minutes.**

### 7.3.2 Control with Android application (optional)

Optionally to the wireless hand-held transmitter the **BatteryLadderLIFT** can be operated via an Android application using a smartphone.

☞ **If the smartphone application is activated, no wireless hand-held transmitter can be connected with the BatteryLadderLIFT.**

- **No additional** smartphone can be connected **at the same time** with the **BatteryLadderLIFT**.
- Control via the wireless hand-held transmitter is not possible as long as the smartphone is connected.

☞ **Control with the smartphone can also be retrofitted!**

**Software prerequisite:** Android greater than **V 5**

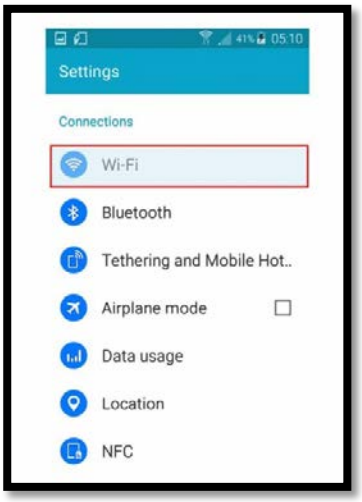
#### *7.3.2.1 Establishing a connection*

The procedure described below is necessary when establishing a connection for the first time. In the future, the connection is normally established automatically. Otherwise, the procedure must be performed without entering the WI-FI password (Step 5).

**1.**


➢ Open the **"Settings"** application.

**2.**




➢ Select the **"Wi-Fi"** menu.

**3.**


Activate **"Wi-Fi"**.

➢ Pull the slider from **"Off"** to **"On"** toward the right.

**4.**


➢ Select the "GEDA_Elevator" Wi-Fi network.

**5.**

- Enter the Wi-Fi password “gedawlan”.
- Press the “CONNECT” button to connect the smartphone to the Wi-Fi.

The password “gedawlan” is only valid if it was not yet changed or reset.


The following steps are only required when the default password “gedawlan” was not yet changed.

**6.**

The **GEDA** Control App can be started after the connection has been successfully established.

- Open the **“GEDA Control”** application.

**7.**

➢ Press the **“CONNECT”** button.

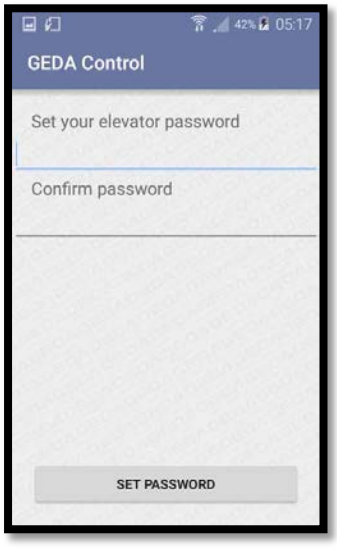

**8.**

☞ **The password must be changed after establishing the connection for the first time.**

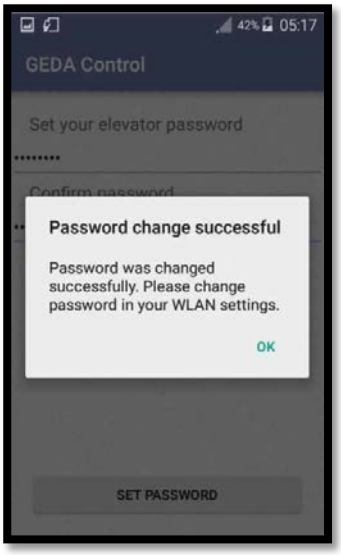
The user is automatically directed to the page for assigning a new password.

The chosen password must have a length between 8 - 12 characters.

➢ Enter the new password.
This is followed by the information that the password also needs to be changed in the Wi-Fi settings.




Confirm with “OK”.




☞ **The hoist control is not possible without changing the password. The control board will be blocked!**

**9.**

Once the password was changed, the new password must be entered in the Wi-Fi settings.

Proceeds as outlined in steps 1 – 5.

The previous connection setting must be deleted: “Forget Network”.


**No connection established**

If no connection can be established with the **BatteryLadderLIFT**, your Smartphone or Android version is possibly **not** supported by the **"GEDA Control"** App.

Please contact the **GEDA Service Team**.

☎ +49 906 9809-222
Fax. +49 906 9809-50
mailto:info@geda.de

Have the type of Smartphone and Android version available.

### *7.3.2.2 Using the* "GEDA Control" *App*

**10.**

The "GEDA Control" App must first be started.


➢ Open the **"GEDA Control"** application.

**11.**

Establish the connection to the **BatteryLadderLIFT**.


➢ Press the **"CONNECT"** button.

**12.**

Activate the hoist control with the Android application.
➢ Pull the slider (2) all the way to the right.

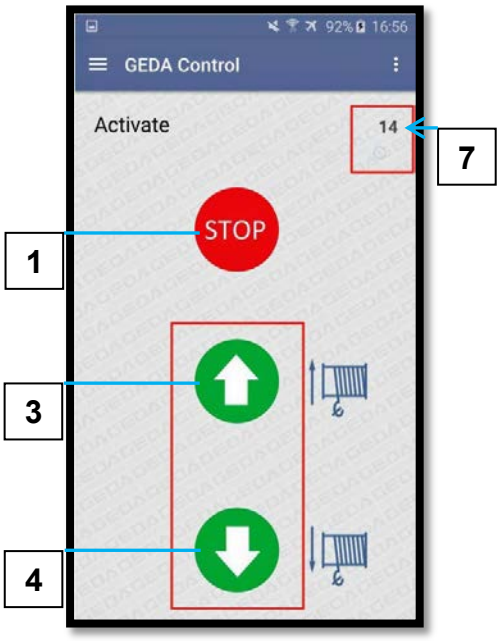

☞ **The message “Please wait for activation” is shown during this time, and the buttons for Ascent or Descent are still blocked.**

The buttons for Ascent or Descent are activated after 2.5 seconds have lapsed.
The lift can now be operated.
If no commands are given, the control disables itself automatically after 15 seconds. The seconds remaining until deactivation are indicated at the upper right.

**13.**

1 = **STOP** button
3 = **UP** button
4 = **DOWN** button
7 = remaining time (in seconds) until the control is disabled

Range: approx. 20 m




***Ascent***

➢ Press and hold the **UP** button (3).
Ascent only as long as the **UP** button (3) is pressed.
Ascent stops when hitting the head section (**UP** limit switch).

***Descent***

➢ Press and hold the **DOWN** button (4).
Descent only as long as the **DOWN** button (4) is pressed.
Descent stops at the latest when hitting the ground (**DOWN** limit switch).

➢ **Deactivation of the smartphone control**
➢ Briefly press the **STOP** button (1).
➢ The smartphone control is switched off.
➢

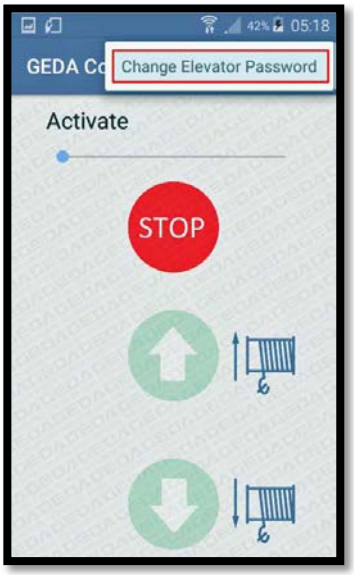
☞ **The smartphone control switches off automatically if no operation takes place for approx. 15 seconds.**

### *7.3.2.3 Change password*

The selected password can be changed as often as desired.
A connection to the hoist must be active for this purpose.

➢ Press the right upper button.

Select “Change Elevator Password”.


Now perform the procedure as outlined in Chapter 7.3.1.1 from Step 8.

### *7.3.2.4 Reset password on the BatteryLadderLIFT*

The password can be reset using a reset button on the base unit.

- Switch off the base unit with the **ON / OFF** switch.

Insert a screwdriver, pencil, etc. through the hole on the cover hood and guide it to the **Reset** button.

- Press and hold the **Reset** button.
- Switch on the base unit with the **ON / OFF** switch with the **Reset** button pressed.

- Release the **Reset** button.
- Switch the base unit once more off and on with the **ON / OFF** switch.

The password has been reset.

To be able to use the **BatteryLadderLIFT** again, it must be added and a password assigned as described in Chapter 7.3.2.1.

☞ **The password is reset to “gedawlan” after pressing the Reset button. The connection must be established as described in Chapter 7.3.2.1 from Step 1.**

## 7.4 *Interrupting work – end of work*

- Move the platform down.
- Switch off the hand-held transmitter and keep under lock and key.

**Switching off the BatteryLadderLIFT**

- Briefly press the **ON / OFF** switch on the base unit.

For confirmation, the blue illuminated ring around the switch goes off.

Press the interlocking and pull the battery from the base unit.

**WARNING**

**Risk of injury**

Do **not step on the ladder** when dismantling it!

## 7.5 *Charging the battery*

The battery is not fully charged when delivered.

**The battery must be fully charged without interruption prior to initial commissioning!**

**WARNING**

**Risk of explosion**
The battery (type "**GEDA GL247**") for the **GEDA BatteryLadderLIFT** may only be charged with the charger type "**L2530 Charger Li-Ion**".

**The battery must be removed from the base unit to charge it.**

- Remove the battery from the base unit (see Chapter 7.4).

**DANGER**

**Fire hazard**
Do not expose the charger to fire, sparks or heat.
Do not place the charger during operation on easily flammable surfaces nor use it in a combustible environment.

**The charger must not be damaged!**

- Insert the battery into the charger.

Observe the correct alignment!

- Plug the charger into a mains socket.

(Refer to identification plate of the charger for voltage and frequency.)

**WARNING**

**Risk of explosion**
Li Ion batteries must not be charged unsupervised or appropriate precautions must be taken.


**1 = LED (red)**
is lit → power is switched on
flashes → charger malfunction

**2 = LED (green)**
is lit → battery being charged
flashes → battery is fully charged

**2 = LED (red)**
is lit → battery is defective
or
supply voltage lies outside the required input voltage range.
flashes → battery temperature is too high or too low.

The battery should be charged once more at room temperature between 0 °C and +45 °C.

- Unplug the charger from the mains socket.
- Press the interlocking on the battery and pull it out of the charger.

### 7.5.1 Charging time

The charging time depends on various factors, for example:

- the discharge condition of the battery
- the ambient temperature during the charging process
- the temperature of the battery
- the age of the battery

A new battery or a battery that has not been used for an extended period will only reach full capacity after approx. 5 charging and discharging cycles.

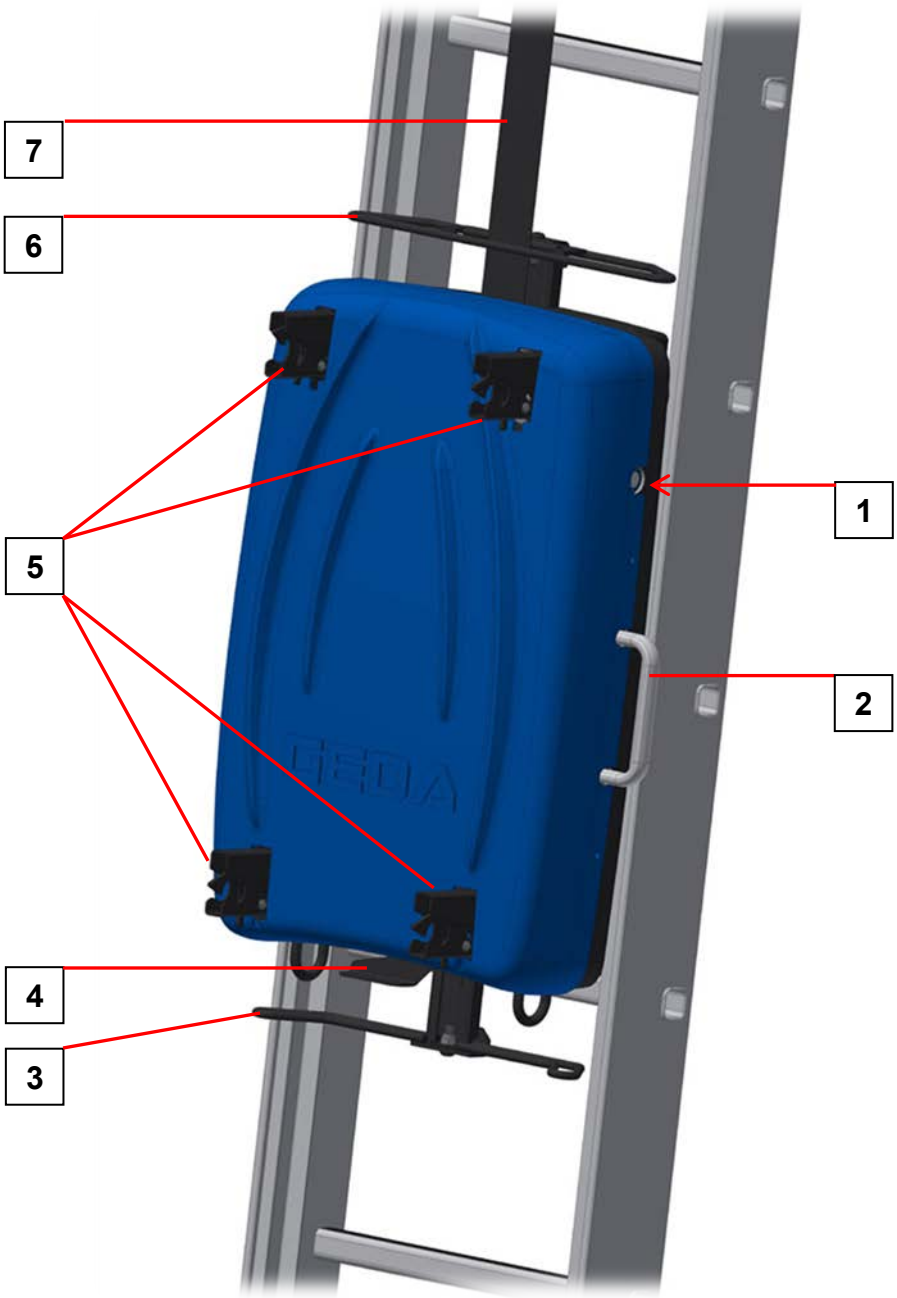
The **average charging time** (at a temperature between 18 °C and 24 °C) is approx. **270 minutes**

**WARNING**

The battery must be observed during the entire charging time!

## *7.6 Equipment*

### 7.6.1 Base unit GEDA BatteryLadderLIFT




1= **ON / OFF** switch
2 = carrying handles
3 = switch bar **DOWN**
4 = lever for locking the roller guide
5 = receptacles for platforms
6 = switch bar **UP**
7 = webbing

### 7.6.2 Platform “Basic”

**DANGER**

**Danger to life**
From toppling over of material falling down.
The material on the platform **must** be secured!

**WARNING**

**Risk of injury**
When loading and unloading the platform.
The **BatteryLadderLIFT** must be switched off with the **ON / OFF** switch before loading and unloading the platform!


8 = Platform “Basic”

**The “Short transport support” (10B) can be folded down with the “Basic” platform.**

### 7.6.3 Platform “Standard”

**DANGER**

**Danger to life**
From toppling over of material falling down.
The material on the platform **must** be secured!

**WARNING**

**Risk of injury**
When loading and unloading the platform.
The **BatteryLadderLIFT** must be switched off with the **ON / OFF** switch before loading and unloading the platform!


9 = Platform “Standard”

☞ **The “Short side wall” (10B) can be folded down with the “Standard” platform.**

### 7.6.4 Platform “Premium”

**DANGER**

**Danger to life**
From toppling over of material falling down.
The material on the platform **must** be secured!

**WARNING**

**Risk of injury**
When loading and unloading the platform.
The **BatteryLadderLIFT** must be switched off with the **ON / OFF** switch before loading and unloading the platform!

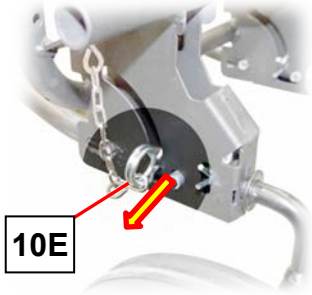

10 = “Premium” platform
10D = Chassis

**The chassis (10D) can be disassembled for operation.**

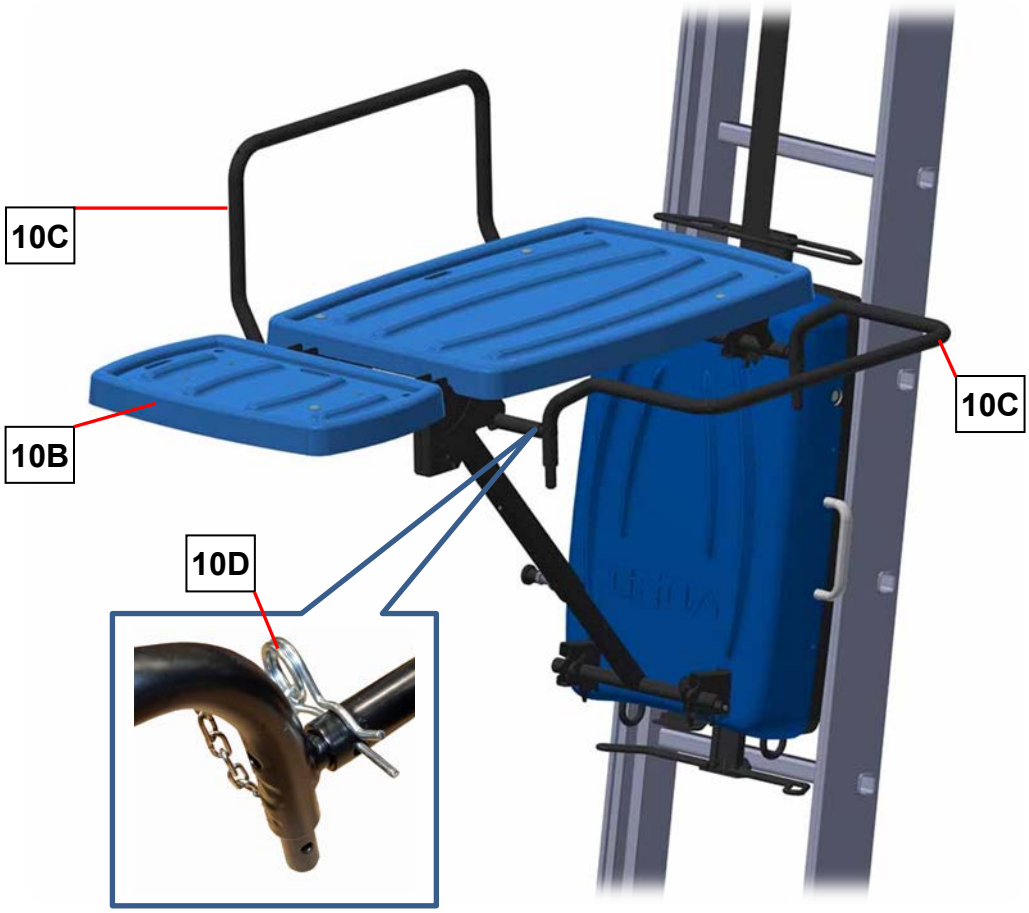
**The “Short side wall” (10B) can be folded down with the “Premium” platform.**

To enlarge the platform area, the rear wall (10B) can be folded down and the plugged in brackets (10C) can be repositioned.

- Pull the spring cotters (10E) on both sides from the platform.




- Pull up the short side wall (10B) and fold it toward the outside.




- Pull out both spring cotters (10D).
- Pull out the brackets (10C), turn them over and insert them again horizontally.
- Secure the bracket (10C) with the spring cotter (10D).

If needed, reposition the opposite bracket (10C) as well.

☞ **When the telescopic tube is pulled out, the “Premium” platform can also be used as a sack truck.**

# 8 Dismantling (disassembly)

**For disassembly, the same regulations and safety instructions are applicable as described in Chapter 6.**
Disassembly is generally carried out in reverse order to assembly.

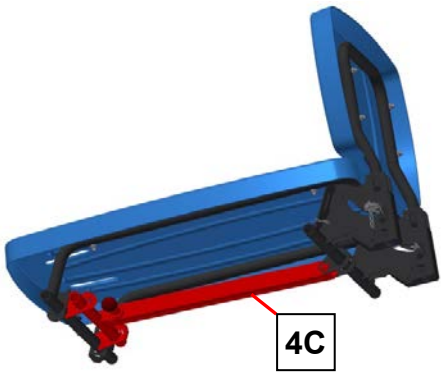
➢ Move the **BatteryLadderLIFT** to the operating height.

## *8.1 Disassembly of the platform*

Disassemble the platform if desired.

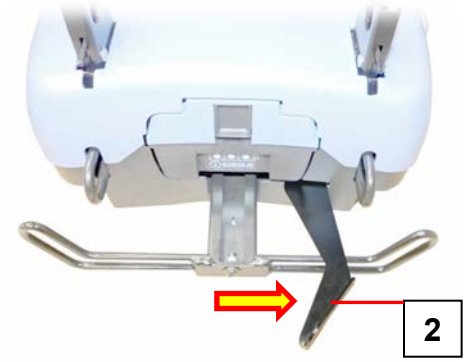
➢ Open the interlocking elements of the load carrying devices and remove the platform.

➢ Swivel the telescopic tube (4C) of the “Standard” or “Premium” platforms to the transport position and secure it.
(Also refer to Chapter 6.3.4)



## 8.2 *Disassembly of the base unit*

- Unlock the roller guide on the catch lever (2).




- Guide the base unit out of the ladder (also refer to Chapter 6.3.3.3)

- Switch-on/activate the control.
- Having the control unit in hand, hold the base unit by the lateral handles.
- Press the **DOWN** button and lower the base unit to the ground.

- Release the **DOWN** button immediately once the base unit has been positioned on the ground.

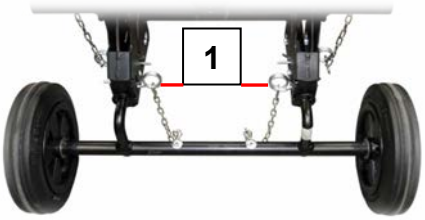
**Make sure the webbing is wound up cleanly and without creases. Do not hold the base unit at an angle.**

## 8.3 *Disassembly of base unit with “Premium” platform*

With the “Premium” platform, the base unit can be disassembled from the ladder without lifting it.

**Prerequisite**
The transport rollers must be mounted to the platform.

- Insert the transport rollers into the frame of the platform and secure them with the spring cotters (1).




- Move down **carefully** until the transport rollers almost rest on the floor.
- Unlock the roller guide on the catch lever.
- Guide the base unit out of the ladder (also refer to Chapter 6.3.3.3)
- Turning the telescopic tube upright (refer to Chapter 6.3.3.2)

The base unit with “Premium” platform and transport rollers.

## 8.4 *Disassembly of the ladder*

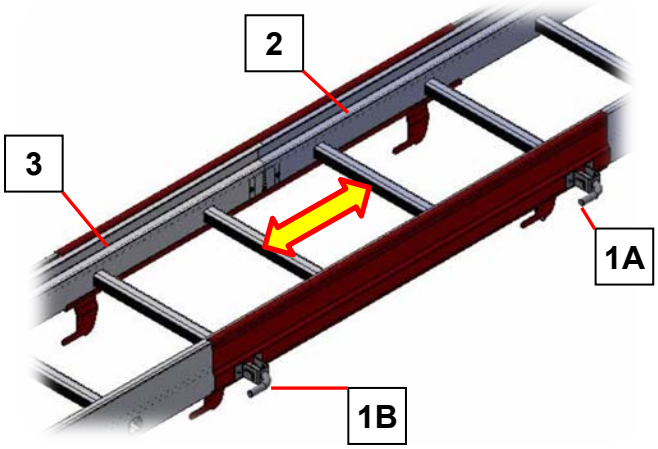
Lower the ladder track to the ground using suitable lifting equipment.

- If necessary, fasten a rope or hoisting loop on the head section and lower it.

☞ **The base unit can be inserted again into the ladder resting on the ground to cleanly wind up the webbing.**

- Unhook the webbing from the head section.

- Swing out the locking pins (1B) on both sides, pull them from the openings of the rungs and let them engage again.




- Pull the ladders apart. Remove the ladder connectors.

Fold the **LIFTLadder 4500** together

- Pull out the locking device on both sides of the ladder until they engage.
- Fold the ladder carefully.

## 8.5 *Winding up the webbing*

- Tighten the webbing so that the slack rope switch release the control.
- Activate the control.
- Press the **UP** button and wind up/pull in the webbing always without creases.

**Make sure the webbing is wound up cleanly and without creases!**

**Switch off the base unit**

- Briefly press the **ON / OFF** switch on the base unit.

For confirmation, the blue illuminated ring around the switch goes off.

## 8.6 *Unplug the battery*

- Press the interlocking and pull the battery from the base unit.
- Package the battery in the transport case.

Transporting the battery, refer to Chapter 5.3

# 9 Maintenance – Checking – Cleaning

**WARNING**

The entire manual and instruction manual must be read for all maintenance/servicing tasks.

It is not permitted to carry out tasks if the type and scope of the tasks are unclear, or the resulting hazards and actions to be initiated to avert hazards are unclear. All unclear issues must be resolved before starting work. All safety instructions must be complied with.

**Workshop equipment** that is suitable for the specific work is imperative for carrying out **servicing and maintenance tasks**. When carrying out maintenance tasks at greater height, fall protection must be worn! Keep all handles, railings and the ground free from dirt and contamination.

## *9.1 Inspections*

☞ **Inspections before commissioning, recurring inspections and intermediate inspections must be carried out according to national regulations.**

During the checks, the condition, presence and function of all safety-related features of the device are checked using appropriate procedures. Appropriate procedures are:

- Visual inspections
- Function and efficiency checks
- Checks using measurement and test equipment

For each test, the scope of the test, type of test and the execution of the test by competent persons must be defined by the operating company.

| Type of testing/tester | Inspection procedures |
|---|---|
| Inspection by an instructed person | Basic visual inspection and function check with few test steps and simple evaluation |
| Checking by a competent person | Reoccurring inspections<br>Checking due to special events, e.g.<br>- Assembly<br>- Maintenance<br>- Natural phenomena |
| Checking by an accredited inspection body (specialist) | Checking in accordance with national regulations |

### 9.1.1 Documenting the results

The operating company must document the results of the checks. The documentation must be kept for a reasonable period of time – however at least for the entire lifetime of the device.

- The results of the recurring check can be recorded in writing in the appendix of this manual.
- Verification confirming that the last inspection was executed must be attached to the device.

### 9.1.2 Checks before initial operation

**Checks at the factory**

**The following tests have already been carried out at the factory:**

- Dynamic test with 1.1x useful load.
- Electrical tests according to EN 60204.
- Examination of operation.

### 9.1.3 Checks after assembly / daily before starting operation

To guarantee safety when handling the device, the person appointed by the operating company is obliged to carry out a daily inspection of certain device areas / parts.

Defects detected must be immediately reported to the supervisor and rectified. Defects may only be rectified by trained personnel responsible for maintenance and servicing.

Always carry out visual inspections before function checks. Operation is prohibited until the defects are rectified.

**The following points must be checked daily**

- Visual check before start of work
  → refer to Chapter “Operation”
- Clean the base unit (keep free from snow and ice in winter).
- Keep work area around the device clear and clean.

**For checks after each installation → refer to Chapter “Assembly”.**

### 9.1.4 Recurring checks

Recurring checks must be carried out in accordance with national regulations.

☞ **GEDA recommends that you carry out a recurring check on an annual basis. In the event of increased demand, carry out checks at shorter intervals.**

## 9.2 *Maintenance schedule*

The inspections to be carried out on a daily basis before the start of operation are not included in the maintenance schedule. These are described in Chapter 7.2.1 because these checks are carried out by the operating personnel.
The following inspections always include a check for proper function, wear, completeness and that there is no manipulation present.

***Abbreviations used in the maintenance schedule***
W = Week / M = Month / Y = Year

| ● = Visual check / ■ = Check | W | 1M | 3M | 1Y |
|---|---|---|---|---|
| **Electrical components** | | | | |
| Function test of hand-held transmitter or smartphone application | | | ■ | |
| Switching mechanism and limit switch | | | ■ | |
| **Mechanical components** | | | | |
| Webbing damage / wear) | ■ | | | |
| LIFTLadders (cracks / warping / deformation and wear) | | ■ | | |
| Ladder connectors (cracks / warping / deformation / bolt locks) | | ■ | | |
| Track rollers / roller guide | | ■ | | |
| Slack rope switch (check for ease of movement; oil if necessary) | | ■ | | |
| All covers available | | | ● | |
| Motor brake | | | ■ | |
| Grease escaping / anomalies at gear box | | | ● | |
| Platform | | | | ■ |
| Information signs (present / legible) | | | ● | |
| **Charger** | | | | |
| Check the power cable for damage | | ● | | |
| Switching mechanism and limit switch | | | ■ | |
| Safety of electrical equipment [repeat test] (insulation measurement…) | | | | ■[1] |

■[1] = The measuring procedures and inspection intervals for the repetition test are to be carried out in accordance with the installation local and national regulations.

**WARNING**

Supplement the maintenance plan with details regarding maintenance/ servicing/ operating equipment/ replacement/ repair in the instructions of the component parts.

## 9.3 *Function- and wear checks*

**WARNING**

**Danger of injury from components failing**

Parts must be replaced immediately if the specified wear limits are exceeded. Device operation is prohibited until the parts have been replaced. All parts must also be checked for damage (deformation, cracks, cavities, etc.).

### 9.3.1 Slack rope switch in the base unit

- Check for easy movement
- Verify the switching point of the limit switch

**Check**

➢ Pull on the webbing and release.

The slack rope switch must turn smoothly and bounce back on its own.

### 9.3.2 Load carrying devices on the base unit

**Check**

➢ Open the interlocking by hand and release it.

The interlocking elements of the load carrying device must open easily and close on its own.

Oil if necessary or replace the spring.

### 9.3.3 Ladder sections / ladder connectors

- Information signs (incline scale, load table...) must be legible and in place.
- Visually check the ladders for kinks, shrinkage, defective rungs.
- Check the running surfaces of the ladder track for signs of cracks and damage.
- Check hinges for slackness. (Must not be unusually large.)
- Visually inspect the ladder connectors for damage.

The locking pins on the ladder connectors must move smoothly and lock.

For maintenance of the ladders, refer also to the user information of the **LIFT**Ladder**.**

**DANGER**

**Danger to life**
Defective ladders must be immediately replaced. Operation is not permitted until the defective section is replaced.

## 9.3.4 Track rollers / guide rollers

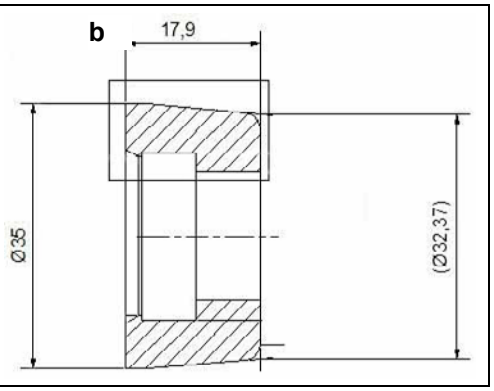
### Calculating wear

Wear is calculated using a calibrated Vernier calliper. Also check for scoring, cavity formation and flaking.

**The roller must be replaced once it reaches / exceeds the wear dimensions.**

### Track rollers

| **Wear limit** (Ø ) | |
|---|---|
| **Ø new** | **Ø min.** |
| 32.37 mm / 35.00 mm | 30.90 mm / 33.50 mm |
| **b new** | **b min.** |
| 17.90 mm | 16.40 mm |




Also check the play and condition of the bearing.

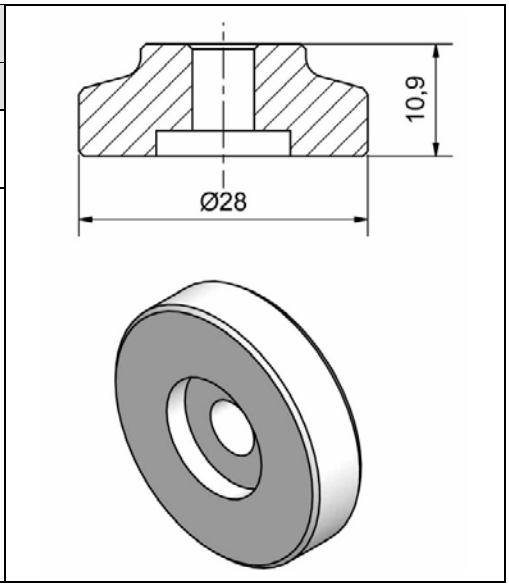
### Replace the track roller

➢ Release the screw and remove the track roller.

**Tools required:**
Wrench AF = 13 mm
Hexagon socket AF = 5 mm

## Guide rollers

| **Wear limit** (Ø ) | |
|---|---|
| **Ø new** | **Ø min.** |
| 28.0 mm | 27,5 mm |




Also check the play and condition of the bearing.

### 9.3.5 Motor / Motor brake

Carry out the maintenance and servicing tasks as follows.

**Motor:**
- Cleaning
- Clean the cooling air passages

**Motor brake:**
The motor brake is maintenance-free and cannot be adjusted.

***Test the braking distance:***
- Load the platform with 110% of the permissible load capacity.
- Move up approx. 2m, subsequently move down.
- Stop the platform (press the **STOP** button).

Overrun of the motor brake must not exceed 35 mm.

**Gear box:**
Minimum every six months
- Check for operating noises for possible damage to bearings
- Visual inspection for leakage from the seals

### 9.3.6 Webbing

➢ Check webbing for damages (cracks, creases) and especially on the triangle.
The webbing **must** be **replaced** if it is **damaged**!

☞ **Identification must be legible and in place.**

**Care**
The webbing must be cleaned if soiled.

Cleaning can be performed with a mixture from water and neutral soap or diluted liquid mild detergent.

| **CAUTION** |
| --- |
| Never use aggressive cleaning agents or caustic substances, e.g. citric acid! |

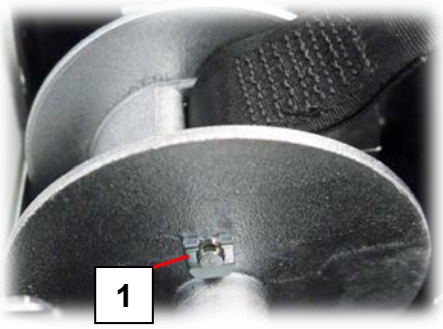
➢ Clean the webbing with light pressure using a sponge, soft brush or microfibre cloth.

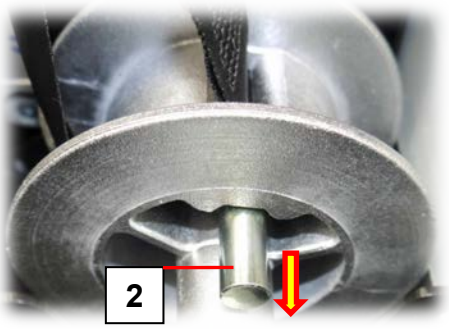
☞ **Do not wet excessively since the polyester material will take more time to dry.**

**If the function of the webbing is compromised due to extreme soiling, it must also be replaced.**

**Replacing the webbing**

- Disassemble the cover on the base unit.
- Activate the control.
- Press the **DOWN** button and unwind the damaged webbing.
- Disassemble the quick fastener for bolts (1).
- Pull out the bolt (2) from the drum.




- Pull the webbing from the base unit.

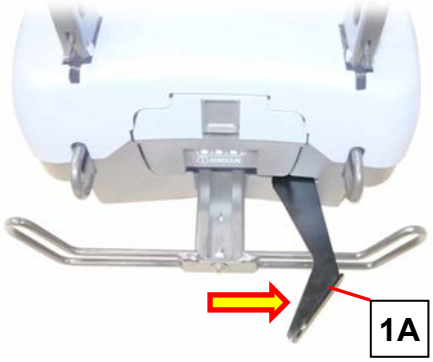
***Recommendation:***
Fasten a towline to the webbing before pulling it out and pull this towline together with the webbing through the base unit.

- Pull in the new webbing with the towline.

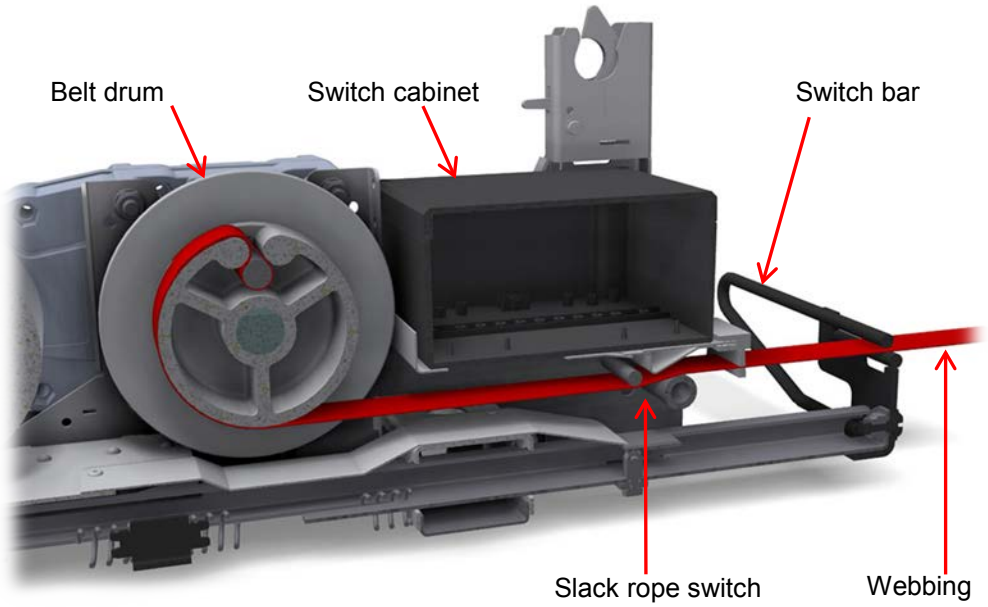
***Inserting the webbing without towline***

**Check:**

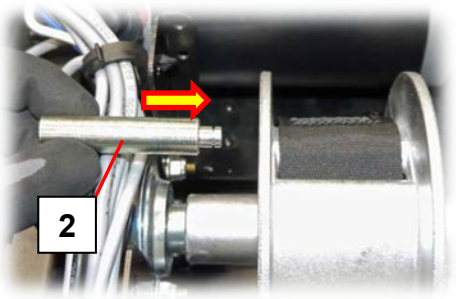
The roller guide must be unlocked on the catch lever (1A)



➢ Guide the webbing through the upper switch bar (3) and over the slack rope switch to the belt drum.


➢ Insert the loop of the webbing through the slot in the belt drum.
➢ Insert the bolt through the belt drum and loop of the webbing.




Secure the bolt with the quick fastener (1).

☞ **Check whether the slack rope switch is active.**

➢ Wind up the webbing approx. 0.5 m.

**Check:**
➢ Press the **UP** button.
The webbing must wind up towards the winch.

➢ Press the **DOWN** button.
The webbing must unwind from the winch.

# 10 Malfunctions – Diagnosis – Repair

**WARNING**

Troubleshooting and rectification of malfunctions only to be carried out by persons specially trained and authorized for this.
If possible, before troubleshooting lower the load to the ground!
Immediately discontinue operation if faults occur that endanger operational safety!

## *10.1 Malfunction table*

In the following table you will find potential faults and the appropriate remedial action.

| Malfunction | Cause | Remedial action |
|---|---|---|
| **BatteryLadderLIFT** does not move (blue illuminated ring around the **ON / OFF** switch is off) | **ON / OFF** switch not actuated | Turn on the **ON / OFF** switch |
| | No battery in the **BatteryLadderLIFT** | Insert the battery |
| | Battery empty | Change the battery or dismantle it for charging. (Refer to Chapter 10.1.4) |
| | Battery temperature less than -20 °C or more than 60 °C | Remove battery and allow to warm/cool to operating temperature. |
| | Fuse [35 A] (-F1) in the switch box has tripped | Replace the fuse (see Chapter 10.1.1). |
| | Fine fuse [2 A] (-F2) in the switch box has tripped | Replace the fuse |

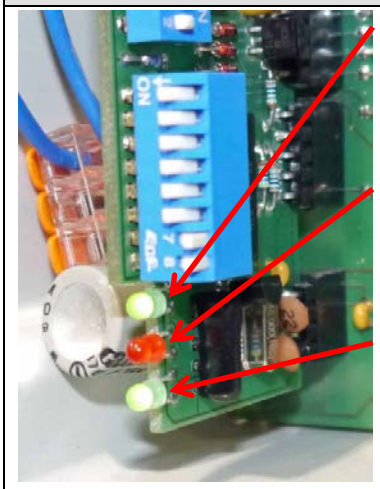
| Malfunction | Cause | Remedial action |
|---|---|---|
| **BatteryLadderLIFT** does not move (blue illuminated ring around the **ON / OFF** switch flashes)<br><br>[1 second **ON** / 0.15 seconds **OFF**] | Motor control not activated<br><br>- **STOP** button pressed<br><br>- Activation of smartphone control expired automatically. | <br><br>**Switch on** hand-held transmitter or<br>activate the smartphone control. |
| Motor control cannot be activated | Battery not charged (LEDs of battery not lit) | Charge battery |
| | Catch lever of the roller guide is not locked | Lock the catch lever. |
| | Switch bar (top/bottom) actuated (**EMERGENCY STOP**) | Remove obstacle on ladder track.<br>Release the **EMERGENCY STOP** switch bar (see Chapter 10.1.3) |
| | Hand-held transmitter used belongs to a different **BatteryLadderLIFT** (if several are available),<br>or<br>code of the hand-held transmitter does not match the code of the motor control | Use the correct hand-held transmitter,<br><br>or<br>compare / adjust code (see Chapter 10.1.5) |
| | Battery of wireless hand-held transmitter empty | Replace battery of the wireless hand-held transmitter (see Chapter 10.1.6) |
| | Distance from hand-held transmitter / smartphone to base unit too large | max. distance<br>Hand-held transmitter ≤10 m<br>Smartphone ≤20 m |

| | Malfunction | Cause | Remedial action |
|---|---|---|---|
|  | Blue illuminated ring around the **ON / OFF** switch is ON (motor control is activated) | Motor control activated through smartphone application and cannot be controlled via the hand-held transmitter<br><br>At least two devices are in the radio range of the hand-held transmitter | Control **BatteryLadderLIFT** via smartphone application. Activate the hand-held transmitter and use it for control.<br><br>Switch control to smartphone application |
|  | Base unit keeps stopping for brief periods.<br>(Blue illuminated ring around the **ON / OFF** switch flashes then at one-second interval).<br>[1 second **ON** /<br>1 second **OFF**] | Base unit overloaded<br><br>Outside temperature below 0 °C<br><br>Ladder soiled | Reduce the load.<br><br>Perform travel without load at the start.<br><br>Clean the ladder. |
|  | Base unit keeps stopping for brief periods when descending.<br>(Blue illuminated ring around the **ON / OFF** switch flashes then rapidly).<br>[0.15 seconds **ON** /<br>0.15 seconds **OFF**] | Battery temperature less than 0°C or more than 45°C | Allow battery to warm up/cool down. |
| | Motor does not generate full power | Battery too weak<br><br>Outside temperature below 0 °C | Charge battery<br><br>Replace battery<br>Warm up battery<br>Carry out run without load |

| Malfunction | Cause | Remedial action |
|---|---|---|
| Base unit does not move **UP** | Battery almost empty (one LED of the battery flashes / or no LED is lit).<br><br>Switch bar (top) actuated<br>- Upper position on ladder reached<br>- One obstacle on the ladder track<br><br>Catch lever of the roller guide is not locked | Move the base unit down.<br>Replace / charge the battery.<br><br>Only downward travel is possible from the position.<br>Remove obstacle.<br><br>Close the catch lever of the roller guide. |
| Base unit does not move **DOWN** | Switch bar (bottom) actuated<br>- Lower position on ladder reached<br>- One obstacle on the ladder track<br><br>Webbing not taut | Only upward travel is possible from the position.<br>Remove obstacle.<br><br>Tighten webbing and move up until the webbing has been pulled tight.<br>(see Chapter 10.1.2). |
| **UP** + **DOWN** direction reversed | Webbing was wound incorrectly on the drum. | Unwind the webbing and rewind it correctly |
| Two devices move simultaneously with one hand-held transmitter | Identical coding of radio control | Shut-down/switch off a device.<br>Switch control to smartphone application. |
| Low wireless range | Battery of wireless hand-held transmitter empty<br><br>Antenna of wireless hand-held transmitter damaged. | Replace battery of the wireless hand-held transmitter (see Chapter 10.1.6)<br><br>Replace the wireless hand-held transmitter. |
| No connection established from Smartphone to base unit | Smartphone or Android version not compatible with the application | Contact the **GEDA Service Team**. |

### Control lights in switch box (base unit)

- Remove cover on base unit.
- Open the switch box.

| LED control lights | Description |
|---|---|
|  | **LED** green is lit<br>Operating voltage applied. |
| | **LED** red is lit<br>Radio signal detected<br>(only with hand-held transmitter) |
| | **LED** green is lit<br>Control unit ready for operation |

**CAUTION**

**Short circuit**

Destruction of control circuit board

The switch box may only be opened by a qualified electrician!

## *10.1 Malfunction rectification*

**WARNING**

**Risk of injury**

Climbing on the ladder track is prohibited as long as the **BatteryLadderLIFT** is mounted on the ladder!

### 10.1.1 Replace fuse in switch box

- Remove cover on base unit.
- Open the switch box.

Replace the fuse.

- Pull fuse from the socket.
- Insert new fuse in the socket.

**Exactly the same fuse (electrical rating, type, manufacturer) as the one installed must be used!**

Fuse:
(automotive) blade-type fuse, **35 A**, dark green

GEDA item no. = 65342

Manufacturer: iMaXX no.. F1535

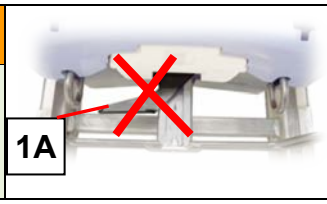

### 10.1.2 Slack rope switch has been triggered

The slack rope switch shuts off the base unit when the webbing becomes slack.

**Remedy**
Tighten the webbing and press the **UP** button on the control until the webbing is taut again.

**WARNING**

**Risk of injury**
The catch lever (1A) of the roller guide must not be opened!



### 10.1.3 Release switch bar in case of EMERGENCY STOP

**EMERGENCY STOP in UP direction**

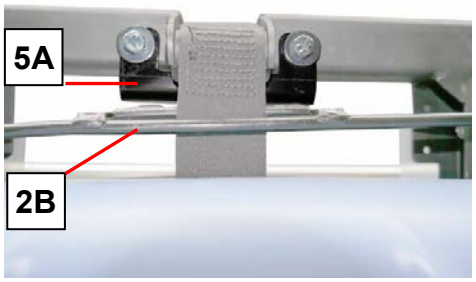
The travel distance of the base unit is limited at the top by a switch bar (2B), which actuates the **UP** limit switch.

Subsequently, travel in the **DOWN** direction is possible.


If the **UP** limit switch fails or the upper switch bar (2B) experiences a strong load because of an obstacle, the **EMERGENCY STOP** is triggered in the second switching step.
Travel can only continue once the bar is clear.

➢ Remove obstacle.

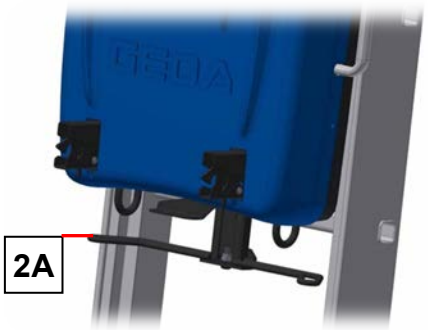
If the **EMERGENCY STOP** was triggered on the head section, the **UP END stop** (5A) must be removed.




**EMERGENCY STOP in DOWN direction**

The travel distance of the base unit is also limited toward the bottom by a switch bar (2A), which actuates the **DOWN** limit switch.

Travel in the **UP** direction is subsequently possible.




If the **DOWN** limit switch fails or the lower switch bar (2A) experiences major strain because of an obstacle, the **EMERGENCY STOP** is triggered in the second switching step.
Travel can only continue once the bar is clear.

➢ Slightly lift the **BatteryLadderLIFT** or reduce the load until the switch bar is clear.
➢ Remove obstacle.

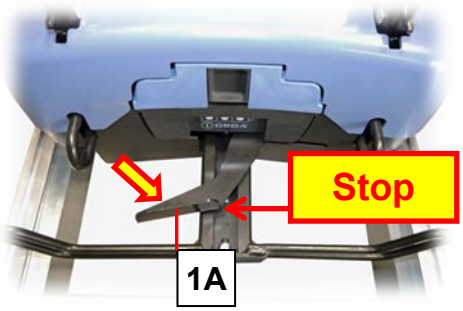
### 10.1.4 Replace battery

If the battery has been drained, it can be changed on the assembled base unit.

**CAUTION**

Because the battery is located on the underside of the base unit, **travelling down to the ground with empty battery must not be done**!

➢ Carefully turn the catch lever (1A) to the right until it engages easily.



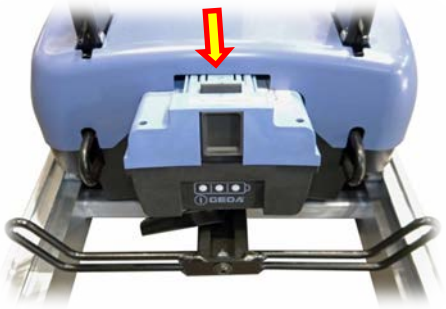

**WARNING**

**Risk of injury**

**Do not turn** the catch lever (1A) **further** to the right than shown in the figure since otherwise the roller guide unlocks and the base unit drops out of the guide rails of the ladder!

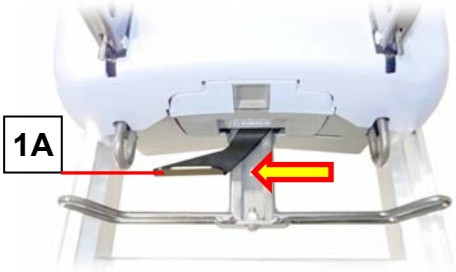
**Replace** the **battery** only while the base unit is **suspended by the taught webbing** or while the base unit has been placed **on the floor**!

➢ Press the interlocking and lift battery over the catch lever when pulling it out.



➢ Slide the charged battery in the reverse order into the base unit. The battery must engage audibly.

➢ Push the catch lever (1A) all the way to the left to securely lock the roller guide again.



### 10.1.5 Coding the wireless hand-held transmitter

Any base unit is set to a wireless hand-held transmitter (coded).

When supplying a replacement hand-held transmitter or if the hand-held transmitter of a different device was brought along to the operating site, the hand-held transmitter can be set to the base unit.

- Switch off the base unit with the **ON/OFF** switch.
- Disassemble the cover from the base unit and the switch box cover.
- Open the hand-held transmitter.
- Switch the coding switch of the hand-held transmitter in the same sequence as the coding switches on the motor control are set.

**Motor control coding** **Hand-held transmitter coding**

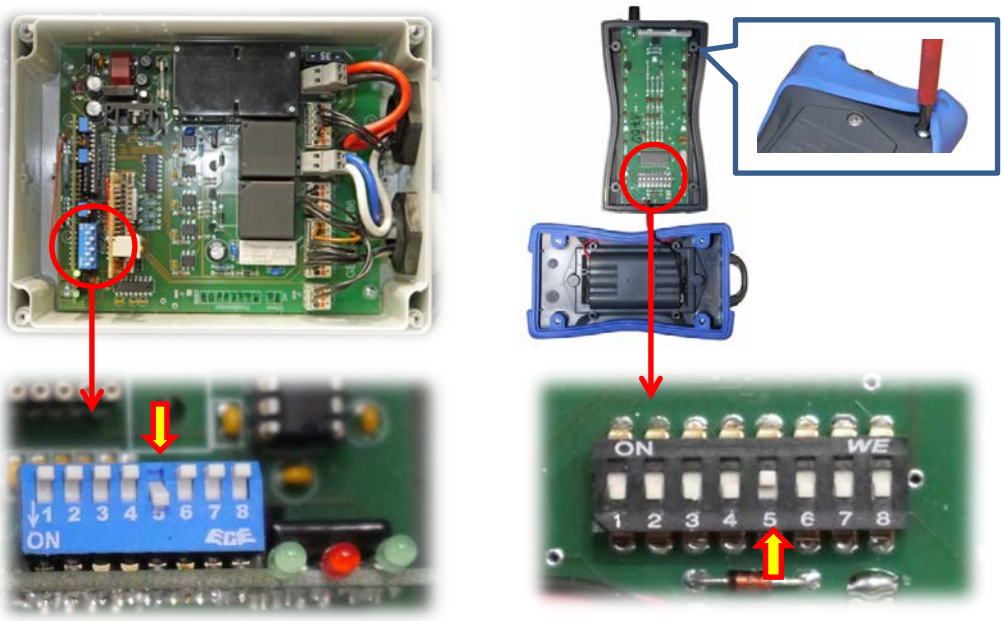



Photo example: Coding switch No. 5 is activated.
Coding switches No. 1, 2, 3, 4, 6, 7, 8 are deactivated.

**The coding switches of the transmitters must be switched in the same sequence as those of the receiver.**

**When returning the hand-held transmitter to the original device, it must be set again to the original coding.**

### 10.1.6 Battery replacement on the wireless hand-held transmitter

When the yellow LED (6) is lit, the batteries in the wireless hand-held transmitter must be replaced.


6 = battery charge indicator for hand-held transmitter
OFF = battery charge condition OK
ON = battery charge condition too low

- Open the battery compartment.
- Replace the three batteries.
- Close the battery compartment.

Batteries: 3 x AAA (micro)

## *10.2 Repair*

**Repair tasks should always be carried out by trained and competent persons because they require special expert knowledge and skills. Neither is communicated in this instruction manual.**

**When ordering spare parts, please provide the following:**

- Type
- Year of construction
- Works no.
- Operating voltage
- Quantity required

The identification plate is located in the battery compartment of the base unit.

**Spare parts must conform to the manufacturer's technical specifications! Only use original spare parts from GEDA.**

For service or repair work, please contact our customer service department:

**For the sales and customer service address, refer to Chapter 1.4**

# 11 Disposal of the device

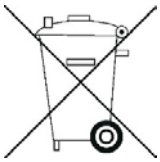
Dismantle the equipment properly at the end of its service life and dispose of according to national provisions.

**Observe the following when disposing of equipment components:**

- Drain and dispose of oil/grease in an eco-friendly way.
- Recycle metal parts.
- Recycle plastic parts.

**Recommendation:**
Contact the manufacturer or commission a specialist company to handle disposal requirements in accordance with regulations.

**Important disposal note for batteries and rechargeable batteries:**
According to the German Battery Ordinance, each consumer is obligated to return all used and spent batteries or rechargeable batteries.



Batteries may only be disposed of via an approved return system.

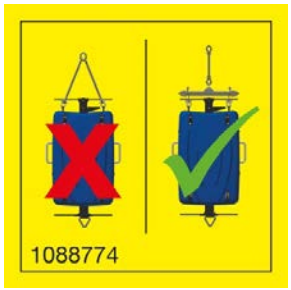
Batteries must never be disposed of with general waste

☞ **Dispose of batteries properly after use.**

You will make an essential contribution to environmental protection!

# 12 Summary of instruction plates


Item No.: 1083204
(base device)




Item No.: 1088774
(base device)

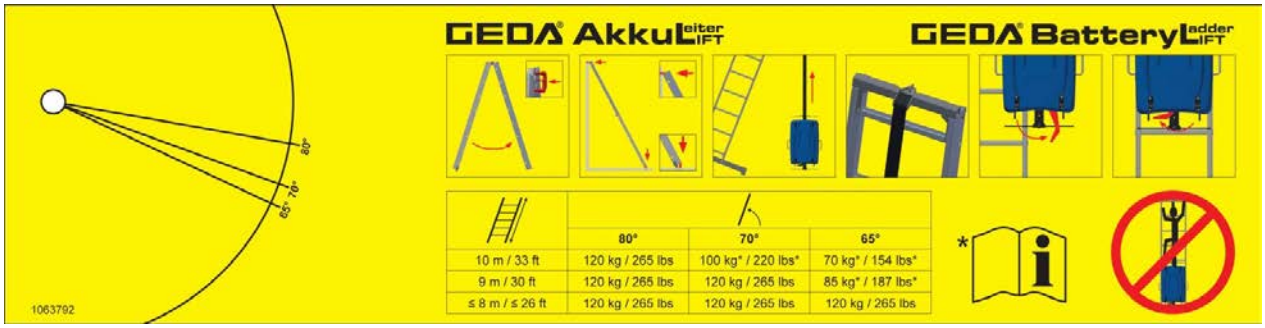

Item No.: 1083182
(base device)


Item No.: 1088185
(base device)

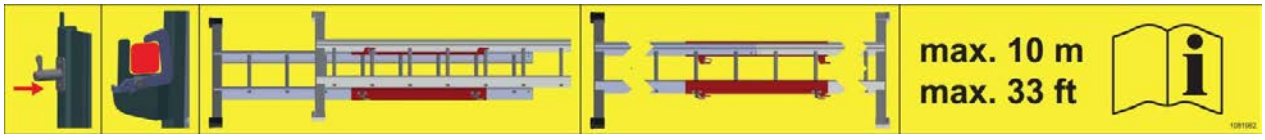

Item No.: 1084655 (platform)


Item No.: 1083127 (platform)


Item No.: 1082547
(base device)




Item No.:1063792 (ladder)




Item No.:1081962 (ladder connector)

# 13 Documenting the checks

| |
|---|
| Documentation for<br>❒ regular checks in accordance with the maintenance schedule<br>❒ recurring check in accordance with national rules<br>❒ unplanned check after specific events |
| Name: Serial number:<br><br>Year of construction: |
| The device was checked on _____. As a result<br>❒ none of<br>❒ the following<br>defects determined: |
| |
| |
| |
| |
| |
| |
| Scope of inspection: |
| |
| |
| |
| Outstanding part checks: |
| |
| |

| | |
|---|---|
| Continued operation is:<br>❒ forbidden<br>❒ permitted | Follow-up inspection is<br>❒ required<br>❒ not required |

| | |
|---|---|
| Place, date | Signature (Technical expert/competent person*)<br><br>*Name of competent person |
| Stamp Inspector | Operating company: Address: |

| |
|---|
| Operating company:<br>Defects acknowledged: |
| Defects rectified: |
| |

Documentation for
❒ regular checks in accordance with the maintenance schedule
❒ recurring check in accordance with national rules
❒ unplanned check after specific events

Name: Serial number:

Year of construction:

The device was checked on _____. As a result
❒ none of
❒ the following
defects determined:

Scope of inspection:

Outstanding part checks:

| Continued operation is: | Follow-up inspection is |
|---|---|
| ❒ forbidden | ❒ required |
| ❒ permitted | ❒ not required |

Place, date

Signature (Technical expert/competent person*)

*Name of competent person

Stamp Inspector

Operating company: Address:

Operating company:
Defects acknowledged:

Defects rectified:

| |
|---|
| Documentation for<br>❒ regular checks in accordance with the maintenance schedule<br>❒ recurring check in accordance with national rules<br>❒ unplanned check after specific events |
| Name: Serial number:<br><br>Year of construction: |
| The device was checked on _____. As a result<br>❒ none of<br>❒ the following<br>defects determined: |
| |
| |
| |
| |
| |
| |
| Scope of inspection: |
| |
| |
| |
| Outstanding part checks: |
| |
| |

| | |
|---|---|
| Continued operation is:<br>❒ forbidden<br>❒ permitted | Follow-up inspection is<br>❒ required<br>❒ not required |

| | |
|---|---|
| | |
| Place, date | Signature (Technical expert/competent person*) |
| Stamp Inspector | *Name of competent person |
| | Operating company: Address: |

| |
|---|
| Operating company:<br>Defects acknowledged: |
| Defects rectified: |
| |

| |
|---|
| Documentation for<br>❒ regular checks in accordance with the maintenance schedule<br>❒ recurring check in accordance with national rules<br>❒ unplanned check after specific events |
| Name: Serial number:<br><br>Year of construction: |
| The device was checked on _____. As a result<br>❒ none of<br>❒ the following<br>defects determined: |
| |
| |
| |
| |
| |
| |
| Scope of inspection: |
| |
| |
| |
| Outstanding part checks: |
| |
| |

| | |
|---|---|
| Continued operation is:<br>❒ forbidden<br>❒ permitted | Follow-up inspection is<br>❒ required<br>❒ not required |

| | |
|---|---|
| | |
| Place, date | Signature (Technical expert/competent person*) |
| Stamp Inspector | *Name of competent person |
| | Operating company: Address: |

| |
|---|
| Operating company:<br>Defects acknowledged: |
| Defects rectified: |
| |

| |
|---|
| Documentation for<br>❒ regular checks in accordance with the maintenance schedule<br>❒ recurring check in accordance with national rules<br>❒ unplanned check after specific events |
| Name: Serial number:<br><br>Year of construction: |
| The device was checked on _____. As a result<br>❒ none of<br>❒ the following<br>defects determined: |
| |
| |
| |
| |
| |
| |
| Scope of inspection: |
| |
| |
| |
| Outstanding part checks: |
| |
| |

| | |
|---|---|
| Continued operation is:<br>❒ forbidden<br>❒ permitted | Follow-up inspection is<br>❒ required<br>❒ not required |

| | |
|---|---|
| | |
| Place, date | Signature (Technical expert/competent person*) |
| Stamp Inspector | *Name of competent person |
| | Operating company: Address: |

| |
|---|
| Operating company:<br>Defects acknowledged: |
| Defects rectified: |
| |

Documentation for
❒ regular checks in accordance with the maintenance schedule
❒ recurring check in accordance with national rules
❒ unplanned check after specific events

Name: Serial number:

Year of construction:

The device was checked on _____. As a result
❒ none of
❒ the following
defects determined:

Scope of inspection:

Outstanding part checks:

| Continued operation is: | Follow-up inspection is |
|---|---|
| ❒ forbidden | ❒ required |
| ❒ permitted | ❒ not required |

Place, date

Signature (Technical expert/competent person*)

*Name of competent person

Stamp Inspector

Operating company: Address:

Operating company:
Defects acknowledged:

Defects rectified:

| |
|---|
| Documentation for<br>❒ regular checks in accordance with the maintenance schedule<br>❒ recurring check in accordance with national rules<br>❒ unplanned check after specific events |
| Name: Serial number:<br><br>Year of construction: |
| The device was checked on _____. As a result<br>❒ none of<br>❒ the following<br>defects determined: |
| |
| |
| |
| |
| |
| |
| Scope of inspection: |
| |
| |
| |
| Outstanding part checks: |
| |
| |

| | |
|---|---|
| Continued operation is:<br>❒ forbidden<br>❒ permitted | Follow-up inspection is<br>❒ required<br>❒ not required |

| | |
|---|---|
| | |
| Place, date | Signature (Technical expert/competent person*) |
| Stamp Inspector | *Name of competent person |
| | Operating company: Address: |

| |
|---|
| Operating company:<br>Defects acknowledged: |
| Defects rectified: |
| |

| |
|---|
| Documentation for<br>❒ regular checks in accordance with the maintenance schedule<br>❒ recurring check in accordance with national rules<br>❒ unplanned check after specific events |
| Name: Serial number:<br><br>Year of construction: |
| The device was checked on _____. As a result<br>❒ none of<br>❒ the following<br>defects determined: |
| |
| |
| |
| |
| |
| |
| Scope of inspection: |
| |
| |
| |
| Outstanding part checks: |
| |
| |

| | |
|---|---|
| Continued operation is:<br>❒ forbidden<br>❒ permitted | Follow-up inspection is<br>❒ required<br>❒ not required |

| | |
|---|---|
| | |
| Place, date | Signature (Technical expert/competent person*) |
| Stamp Inspector | *Name of competent person |
| | Operating company: Address: |

| |
|---|
| Operating company:<br>Defects acknowledged: |
| Defects rectified: |
| |

## Space for notes

Notice entered
Name: / Date
Position

## Space for notes

Notice entered
Name: / Date
Position

GEDA-Dechentreiter GmbH & Co. KG
Mertinger Strasse 60
86663 Asbach-Bäumenheim
Tel.: +49 (0)9 06 / 98 09-0
Fax: +49 (0)9 06 / 98 09-50
E-Mail: info@geda.de
Web: www.geda.de

BL164 GB Edition 07/2017