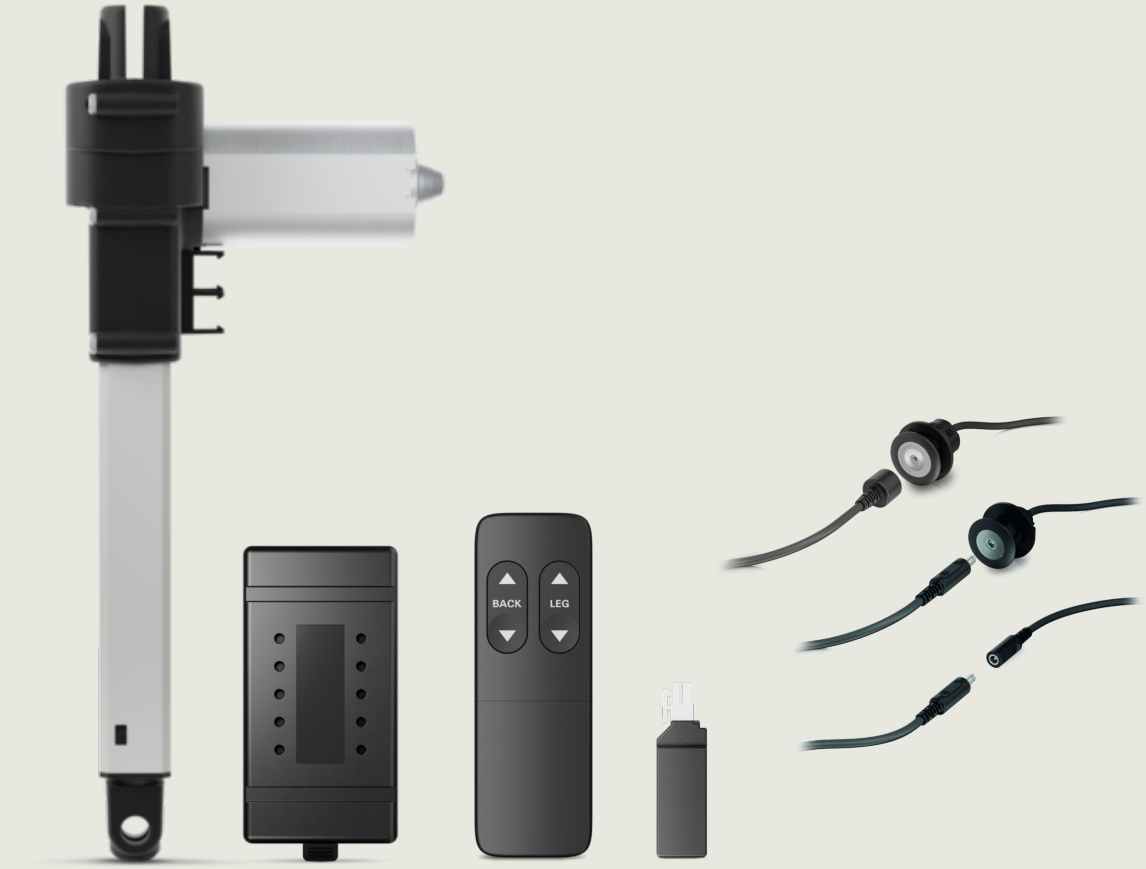
LA10 Recliner system

User Manual



LINAK®
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linak.COM/HOMELINE

Contents

Preface ... 3
Intended use ... 4
Important safety information ... 5
General safety instructions ... 6
General ... 6
Before installation, de-installation or troubleshooting ... 7
Before start-up ... 7
During operation ... 7
Misuse ... 7
Informations importantes en matière de sécurité ... 8
Consignes générales de sécurité ... 9
General ... 9
Avant installation, réinstallation ou dépannage ... 10
Avant le démarrage ... 10
Pendant le fonctionnement ... 10
Utilisation abusive ... 10
Battery information ... 11
Battery safety information for end users ... 12
Declarations ... 16
Declaration of Conformity ... 16
Manufacturer's declaration ... 17
Description of the HOMELINE® LA10 Recliner system ... 18
Configuration ... 18
Warranty ... 18
Maintenance ... 18
Installation ... 19
Mounting the system ... 19
Mounting the Charging Point CP002/CP003 ... 20
Mounting the BP10 bracket ... 21
Mounting the BA002 ... 22
Connection ... 23
Connecting the LA10 system with Bluetooth® dongle ... 23
Connecting the LA10 system with BA002 ... 25
Charging the BA002 ... 27
BA002 information ... 28
Pairing the control unit ... 29
Initialising the system ... 29
Re-initialising the system ... 29
Replacing the battery ... 30
Repair and disposal ... 32
Accessories and spare parts ... 32
Contacts ... 33

Preface

Dear User,

We are delighted that you have chosen a LINAK® product.

LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, lifting columns, desk frames, electric control boxes, controls, batteries, accessories and chargers.

This User Manual does not address the end user. It is intended as a source of information for the equipment or system manufacturer only, and it will tell you how to install, use and maintain your LINAK electronics. The manufacturer of the end product has the responsibility to provide a User Manual, where relevant safety information from this manual is passed on to the end user.

We are convinced that your LINAK product/system will give you many years of problem-free operation.

Before our products leave the factory, they undergo both function and quality testing. Should you, nevertheless, experience problems with your product/system, you are always welcome to contact your supplier.

LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you. Locate your local contact information on the back page.

LINAK provides a warranty on all products, see Warranty.

This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly, and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. The products may only be opened by authorised personnel.

This User Manual has been written based on the present technical knowledge. LINAK reserves the right to carry out technical modifications and keeps the associated information updated.

LINAK A/S

This User Manual is valid for the following products:

Actuators:	LA10
Controls:	BP11, BP12, and BP13
Charging Point:	CP001, CP002, and CP003
Accessory:	BLE2DC and BA002
Power supply:	SMPS001 or SMPS006

Intended use

This system is a Residential system developed for furniture and for indoor use in dry locations.

Important safety information

Safe use of the system is possible only when this document is read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTICE" symbol may result in serious damage to the system or one of its components.

Read all instructions before using this product.

Important safety information on LINAK® products can be found under the following heading(s):



DANGER

Failure to comply with these instructions will result in severe personal injury.



WARNING

Failure to comply with these instructions may result in severe personal injury.



CAUTION

Failure to comply with these instructions can result in minor personal injury.



NOTICE

Failure to comply with these instructions can result in property damage.

READ AND SAVE THESE INSTRUCTIONS

General safety instructions

General

DANGER

Plugged-in products

Risk of electric shock

- Always unplug this product from the electrical outlet before assembling, disassembling, cleaning, or servicing.
- Only use the product indoors in dry locations.

It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.

The appliance is not intended for use by young children or infirm persons without supervision.

If there is visible damage on the product it must not be installed.

Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example squeezing of fingers or arms.

Assure free space for movement of application in both directions to avoid blockade.

The appliance is only to be used with the power supply unit provided with the appliance.

Safety issues

The builder of the equipment shall ensure that the use of the component complies with relevant standards – like the Machine Directive. Care must be taken to avoid squeezing of cables as it can cause movement of the system!

The Switch Mode Power Supply (SMPS) must not be packed in heat insulating material but must be placed so that it can emit waste heat to the surroundings. There are no ventilation holes to consider, the SMPS emits heat through its surface.

Before installation, de-installation or troubleshooting

- Stop the actuators.
- Disconnect the power supply.
- Relieve the actuator of any loads, which may be released during the work.

Before start-up

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before connecting to the mains.

During operation

- If the power supply makes unusual noise or smells, switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- Unplug the mains cable on mobile equipment before it is moved.

Misuse



Do not overload the actuators – this can cause danger of personal injury and damage to the system.



Do not stand on the application during operation – risk of personal injury.



Do not use the system in environments other than the intended indoor use.



WARNING

- This appliance may be used by children aged 8 years and older and by persons with reduced physical, sensory, or mental capabilities, or with limited experience and knowledge, provided they have received supervision or instruction regarding safe use of the appliance and understand the associated hazards.
- Children must not play with the appliance. Cleaning and user maintenance must not be performed by children without supervision.

For US and Canadian markets only

- Persons who lack the necessary experience or knowledge must not use the product unless they have received appropriate instruction or supervision from a person responsible for their safety.
- Persons with reduced physical, sensory, or mental capabilities must not use the product unless they are under supervision or have been instructed in its safe use by a person responsible for their safety.
- Children must be supervised to ensure that they do not play with the product.
- Before operating the application, ensure that it can move freely without creating a risk to the operator or bystanders.

Informations importantes en matière de sécurité

Une utilisation sûre du système n'est possible que lorsque ce document est lu dans son intégralité et que les instructions qu'il contient sont strictement respectées.

Le non-respect des instructions marquées du symbole "AVIS" peut entraîner de graves dommages au système ou à l'un de ses composants.

Lisez toutes les instructions avant d'utiliser ce produit.

Des informations de sécurité importantes sur les produits LINAK® sont disponibles dans la ou les rubriques suivantes :



DANGER

Le non-respect de ces instructions entraînera des blessures graves.



AVERTISSEMENT

Le non-respect de ces instructions peut entraîner des blessures graves.



ATTENTION

Le non-respect de ces instructions peut entraîner des blessures corporelles légères.



AVIS

Le non-respect de ces instructions peut entraîner des dommages matériels.

LIRE ET CONSERVER CES INSTRUCTIONS

Consignes générales de sécurité

General

DANGER

Produits enfichés

Risque de choc electrique

- Débranchez toujours ce produit de la prise électrique avant de l'assembler, de le démonter, de le nettoyer ou de l'entretenir.
- N'utilisez le produit qu'à l'intérieur, dans des endroits secs.

Il est important pour tout individu qui connecte, installe, ou utilise le système d´avoir les informations nécessaires et l´accès à ce mannuel d´utilisation.

Suivez les instructions pour le montage – risque de blessure si ces instructions ne sont pas suivies.

L´appareil n´est pas destiné à être utilisé par des enfants ou des personnes handicapées sans surveillance.

S´il y a des dommages visibles sur le produit, l´installation ne doit pas être effectuée.

Prendre en compte lors de la construction du matériel, dans lequel l´actionneur est incorporé, qu´il ne doit y avoir aucune possibilité de blessures corporelles, telles que la compression des doigts ou des bras.

Assurez un espace libre autours du materiel pour éviter tout blocage.

L'application ne doit être utilisée qu'avec le module d'alimentation secteur fourni.

Sujet de sécurité

Le constructeur de l'équipement doit s'assurer que l'utilisation du composant conforme aux normes en vigueur, comme la Directive Machines. Les soins doivent être prises pour éviter de pincer les câbles car cela pourrait entraîner des mouvements du système!

Le Switch Mode Power Supply (SMPS) doit pas être emballé dans un matériau isolant, mais placé de manière à optimiser la déperdition de chaleur. Le module SMPS ne dispose pas de trous de ventilation, la chaleur est évacuée en surface

Avant installation, réinstallation ou dépannage

- Arrêter les actionneurs.
- Débrancher la prise de courant.
- Soulager les actionneurs de toute charge qui pourrait être relâchée pendant les travaux.

Avant le démarrage

- Assurez-vous que le système a été installé conformément aux instructions du présent manuel de l'utilisateur.
- Assurez-vous que la tension du SMPS correspond à la tension du réseau avant de connecter le système au réseau.
- Connexion du système :
  Les différents éléments doivent être connectés avant que le SMPS ne soit connecté au réseau.

Pendant le fonctionnement

- Si le SMPS émet des bruits ou des odeurs inhabituels, coupez immédiatement la tension secteur.
- Veillez à ce que les câbles ne soient pas endommagés.
- Débrancher le câble d'alimentation de l'équipement mobile avant de le déplacer.

Utilisation abusive



Ne surchargez pas les actionneurs – cela peut engendrer un risque de blessures corporelles et endommager le système.



Ne pas se tenir debout sur l'application en fonctionnement – risque de blessures.



Ne pas utiliser le système dans dans des environnements autres que l´utilisation intérieure prévue.



AVERTISSEMENT

- Cet appareil peut-être utilisé par des enfants âgés de 8 ans et plus, ainsi que les personnes dont les capacités physiques, sensorielles ou mentales sont réduites ou ayant un manque d´expérience et de connaissance si elles ont bénéficié d´une surveillance ou d´instructions concernant l´utilisation de l´appareil en toute sécurité et compris les risques encourus.
- Les enfants ne doivent pas jouer avec l´appareil. Le nettoyage et l´entretien ne doivent pas être rèalisés par des enfants sans surveillance

Seulement pour les marchés américains et canadiens

- Les personnes qui n´ont pas l´expérience ou les connaissances nécessaires sur le ou les produit(s) ne doivent pas le ou les utiliser. Par ailleurs, les personnes ayant des capacités physiques, sensorielles ou mentales réduites ne doivent pas utiliser le ou les produit(s), sauf si elles sont sous surveillance ou ont suivi une formation approfondie de l´utilisation de l´appareil par l´individu responsable de la securité de ces personnes.
- De plus, les enfants doivent-être sous surveillance afin de s´assurer qu´ils ne jouent pas avec le produit.
- Il est de la responsabilité de l'opérateur de s'assurer qu'il y a de l'espace libre pour que l'application puisse se déplacer sans risque pour l'opérateur ou les passants avant d'utiliser l'application.

Battery information

To comply with the EU Battery Regulation (EU) 2023/1542, battery related information is provided via this QR code:

Scanning the QR code gives access to battery identification details, as well as safety and environmental information available on the LINAK website.

This information must be included in the end-product user manual.

Li-Ion battery disclaimer

Li-Ion batteries are moving in the direction of minimising the physical size and, at the same time, increasing the capacity. This gives a very compact battery with a high energy concentration. It also increases the risk of thermal runaway (see note below) due to internal short circuits.

The general use of Li-Ion batteries has increased, and the inherent risk of thermal runaway has led to stricter rules within the transport industry, specifically air transport with tightened restrictions on the quantity, handling, and storage of specific products.

The OEMs and consumers must recognise that although safe to use, Li-Ion cells always have a very small risk of thermal runaway. The risk could be as little as 1 PPM or even less.

LINAK currently bases its Li-Ion battery design on cell types with an industry-proven history (e.g. electric cars). The use of well-proven cell technology reduces the risk of thermal runaway, but it does not eliminate it. LINAK has completed activities to reduce this risk and the complete battery package is approved in accordance with UL.

An external, internationally recognised expert has also reviewed the design to ensure that it is manufactured according to the latest recommendations. Further to that, we only use cells from well-recognised manufacturers.

LINAK recommends that when using Li-Ion batteries, the customers should carry out proper risk analysis on their applications. The risk analysis must also take into consideration that these products are not mounted in positions where they are in direct contact with flammable material.

LINAK Li-Ion batteries have no greater risk of thermal runaway than other Li-Ion cells from well-recognised manufacturers within the market. Therefore, LINAK cannot take responsibility for any failures that occur due to a failure that is inherent in the nature of Li-Ion batteries.

If any of the Li-Ion batteries built into LINAK products are found to be defective under warranty, LINAK will provide the OEM with a new product. LINAK explicitly disclaims all other remedies. LINAK shall not in any event be liable under any circumstances for any special indirect punitive incidental or consequential damages or losses arising from any incident related to the inherent risk of thermal runaway in the Li-Ion cell and any use of LINAK products. Moreover, LINAK explicitly disclaims any responsibility for profit loss, failure to realise expected savings, any claim against our customer by a third party, or any other commercial or economic losses of any kind, even if LINAK has been advised of the possibility of such damages or losses.

'Thermal runaway' is overheating of a cell and it could lead to a small fire and smoke from the cell.

Transportation

The Li-Ion batteries must be packed and transported in accordance with applicable regulations. Always ask your local transportation provider how to handle the transportation of Li-Ion batteries.

Please see the general assembly instructions and the mounting section for detailed information.

Battery safety information for end users

For UL 4200A compliance

Requirements for end-user warnings and information:

Compliance with UL 4200A extends beyond initial steps and involves providing necessary warnings and information directly to the end user. You can fulfil these requirements through distinct warnings on the product packaging, as well as detailed information within the instruction and user manuals.

The following are suggested ways to communicate these precautions effectively.

The guidelines provided herein represent one method to adhere to the standards of UL 4200A. However, there are other ways to ensure compliance with UL 4200A regulations. We encourage you to consult with your preferred testing laboratory to gain a comprehensive understanding of the UL 4200A requirements and to explore the various ways to meet these standards.

Information on the packaging:

Use one of the two graphics below together with the stated text in English. Add the French version for deliveries to Canada.

WARNING



- **INGESTION HAZARD**: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted in any part of the body.

WARNING



- **INGESTION HAZARD**: This product contains a button cell or coin battery.
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AVERTISSEMENT



- **RISQUE D'INGESTION :** Ce produit contient une pile bouton ou une pile à pièces.
- **La MORT** ou des blessures graves peuvent survenir si le produit est ingéré.
- Une pile bouton ou une pile à pièces avalée peut causer **des brûlures chimiques internes en seulement 2 heures.**
- **GARDEZ** les piles neuves et usagée**s HORS DE PORTÉE DES ENFANTS.**
- **Consultez immédiatement un médecin** si vous pensez qu'une pile a été avalée ou insérée dans une partie du corps.

AVERTISSEMENT



- **RISQUE D'INGESTION :** Ce produit contient une pile bouton ou une pile à pièces.
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- **Consultez immédiatement un médecin** si vous pensez qu'une pile a été avalée ou insérée dans une partie du corps.

The displayed icon size must be:
Width: Minimum 7 mm; Height: minimum 9 mm.

The packaging must clearly specify the battery type, CR2032, and the nominal voltage, 3 V.

The text "WARNING" must be clearly visible, have a height of minimum 5 mm, and be in capital letters. All other informational text must have a height of minimum 2.5 mm and be in bold and capital letters as shown.

Information in the instruction and user manual:

Use one of the two graphics below together with the stated text in English. Add the French version for deliveries to Canada.

WARNING



- **INGESTION HAZARD**: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
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AVERTISSEMENT



- **RISQUE D'INGESTION :** Ce produit contient une pile bouton ou une pile à pièces.
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- **Consultez immédiatement un médecin** si vous pensez qu'une pile a été avalée ou insérée dans une partie du corps.

AVERTISSEMENT



- **RISQUE D'INGESTION :** Ce produit contient une pile bouton ou une pile à pièces.
- **La MORT** ou des blessures graves peuvent survenir si le produit est ingéré.
- Une pile bouton ou une pile à pièces avalée peut causer **des brûlures chimiques internes en seulement 2 heures.**
- **GARDEZ** les piles neuves et usagée**s HORS DE PORTÉE DES ENFANTS.**
- **Consultez immédiatement un médecin** si vous pensez qu'une pile a été avalée ou insérée dans une partie du corps.

1. Remove and immediately recycle or dispose of used batteries according to local regulations. Do NOT dispose of batteries in household trash or incinerate.
2. Keep used batteries away from children.
3. Even used batteries may cause severe injury or death.
4. Call your local poison control center for treatment information.
5. Battery type: CR2032
6. Battery voltage: 3 V
7. Non-rechargeable batteries may not be recharged.
8. Do not force discharge, recharge, disassemble, heat above 40 °C, or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
9. Ensure the batteries are installed correctly in accordance with polarity (+ and -).
10. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
11. Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
12. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries and keep them away from children.

Declarations

Declaration of Conformity

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

hereby declares under our sole responsibility that LINAK Actuator System (LA10) for use in adjustable recliner chairs for the purpose of raising and lowering the back and foot sections:

With main component (marked with CE)
Control unit (model): BLE2DC or BA002

And options of

linear Actuator(s):
item number: 10aaabbb00000000-cccde0ffgghij, Where - aaa can be 040 or 060; bbb can be between 25 and 150; ccc can be between 153 and 278; d can be 1, 2, 3 or 4; e can be 1, 2, 3 or X; f can be 0 or 1; gg can be any character; h can be 0 or 1; i can be any character and j can be 0 or 1.

Charging point: CP002, CP003, CP001 or CP100

Power unit: SMPS001 or SMPS006

Handsets (model): BP10BL, BP20BL, HC10BL, HC1ABL, HC40BL, HC60BL, BP20BL

complies with the **Radio Equipment Directive 2014/53/EU** (*OJ L 153, 22.5.2014, p. 62–106*) according to the standard:

Art.3.1 (a) Safety:
EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 (Harmonized to LVD)

Art.3.1 (a) Health:
EN 62479:2010; (Harmonized to LVD)
EN 62233:2008+AC:2008

Art. 3.1(b) EMC:
EN 61000-6-2:2005/AC:2005
EN 61000-6-3:2007/A1:2011/AC:2012
ETSI EN 301 489-1 V2.2.3;
ETSI EN 301 489-17 V3.2.4

In accordance with procedures given in:
Draft ETSI EN 303 446-1 V1.2.0
Draft ETSI EN 303 446-2 V1.2.0

Art. 3.2 Radio:
ETSI EN 300 328 V2.2.2

Complies with Directive **2011/65/EU** of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (*OJ L 174, 1.7.2011, p. 88–110*) and Directive **2015/863** (*OJ L 137, 4.6.2015, p. 10–12*) (amending Annex II to Directive 2011/65/EU) according to the standard:
EN IEC 63000:2018

Additionally, BA002 complies with Battery Regulation (EU) 2023/1542 Article 6.
Where this product or system includes or is supplied with batteries, those batteries comply with the requirements of Regulation (EU) 2023/1542.

Nordborg, 2026-09-23

Signature present in original document.

Signed: Dragan Macura (Regulatory Compliance Manager)

Manufacturer's declaration

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Herewith declares that LINAK HOMELINE® products as characterized by the following models and types:

With main component:
Control unit (model): BLE2DC or BA002

And options of

linear Actuator(s):
item number: 10aaabbb00000000-cccde0ffgghij, Where - aaa can be 040 or 060; bbb can be between 25 and 150; ccc can be between 153 and 278; d can be 1, 2, 3 or 4; e can be 1, 2, 3 or X; f can be 0 or 1; gg can be any character; h can be 0 or 1; i can be any character and j can be 0 or 1.

Charging point: CP002, CP003, CP001 or CP100

Power unit: SMPS001 or SMPS006

Handsets (model): BP10BL, BP20BL, HC10BL, HC1ABL, HC40BL, HC60BL, BP20BL

comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, *Essential health and safety requirements relating to the design and construction of machinery*:

1.5.1 Electricity supply

We confirm that prior to market introduction the relevant technical documentation is compiled in accordance with part B of Annex VII and the assembly instruction pursuant to Annex VI.

This documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.
The products mentioned in this document are to be combined for use in electrically adjustable beds or recliner chairs.

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC where appropriate.

Nordborg, 2026-09-23

Signature present in original document.

Signed: Dragan Macura (Regulatory Compliance Manager)

Description of the HOMELINE® LA10 Recliner system

The LA10 Recliner system consists of one or more Linear Actuators LA10, a Bluetooth® dongle, a control unit, and a charging point. The solution is designed for adjustable recliner chairs and meets user requirements for reduced number of cables in the system. The LA10 actuator is intelligent and automatically detects its position when connected in serial into a system. A Bluetooth® dongle ensures the wireless connection to the control unit, which is a wireless control placed in a bracket. To complete the design, the charging point is available in different versions. The entire system is designed to meet user preferences and to fit the elegant design of modern living-room furniture. In the newest system, the Battery BA002 offers a powerful solution without a permanent cable to the application.

An LA10 Recliner system consists of:

- LA10 linear actuator
- Bluetooth® dongle
- BP11, BP12, or BP13 control unit
- Bracket for control unit
- Charging Point CP001, CP002, or CP003
- Battery Box BA002
- Switch Mode Power Supply SMPS001 or SMPS006

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG Inc. and any use of such marks and logos by LINAK A/S is under license.

Configuration

The LA10 actuator can be configured via the LA10 configurator. A number of parameters can be adjusted such as speed and stroke length.

Settings that are not default values, such as increased speed, will have influence on the product lifetime, push force etc.
Changes made in the configurator are not tested and we cannot guarantee that the specifications in the data sheet are met.

Warranty

The warranty terms for Residential products are described in this warranty paper:
https://cdn.linak.com/-/media/files/warranty/warranty-paper-homeline-eng.pdf

Please note that the warranty on the Battery Box BA002 is extended to 36 months.

Maintenance

Clean dust and dirt from the outside of the system at appropriate intervals and inspect for damage and breaks. Inspect connections, cables, and plugs, and check functioning as well as fixing points.

The cleaners and disinfectants must not be highly alkaline or acidic (pH value must be 6 to 8).

Installation

For installation of LA10 systems for recliners, please refer to the LA10 Bed system User Manual.

WARNING:
The Control Unit BP10, the Charging Point CP003, and the CP003 charging cable contain a magnet that could affect the function of a medical device (such as a pacemaker). Please read the instructions of the medical device and keep a safe distance for safe use, if required.

Mounting the system

The connection cables between units on the bus (from power supply to LA10 and between the LA10 actuators) should be kept as short as possible – use the recommended 400 mm or 800 mm cables and avoid excess cable.

This becomes more important when having several PLC units (multiple LA10 actuators) on the bus. If this requirement is not met, communication may be lost and the movement interrupted.

Cable length between the power supply and the actuator:

- Min. 1800 mm
- Max. 5000 mm

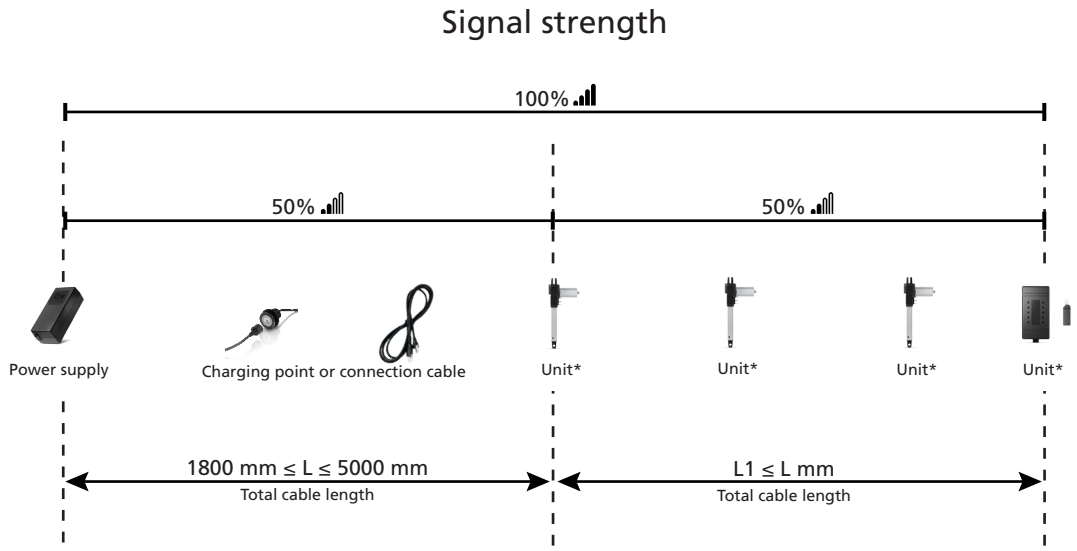
Shorter cable:

The system may not work correctly, or it may behave in an unexpected way.

Longer cable:

Voltage drop causing the system to run slower.

In general, a rule of thumb for a multiple-actuator system is that the total cable length after the first unit must be less than the cable length from the SMPS to the first unit.



**: LA10, Bluetooth® dongle, or BA002*

Figure 1 Cable length illustration (valid for up to 4 PLC units - units with micro)

Example:
In a system with a 2.5 m charging cable and a 0.5 m charging point cable (in total 3 m from the power supply to the first PLC unit), the cable length from the first PLC unit to the last PLC unit must be less than 3 m.

Mounting the Charging Point CP002/CP003

No screws are needed to mount the charging point.

The CP002 requires a hole of 24 mm in diameter and the CP003 a hole of 30 mm in diameter.

1. From the front, simply push the charging point through a hole in the fabric. From the back, click the ring on and tighten until the charging point is properly fixed.

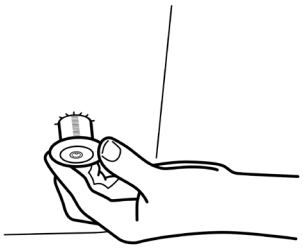


Figure 2 Front

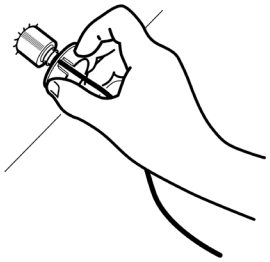
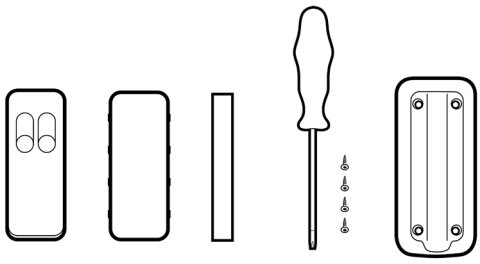


Figure 3 Back

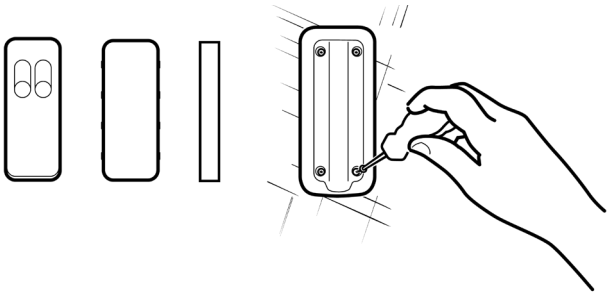
Mounting the BP10 bracket

The bracket consists of four parts. A screwdriver and four screws are needed for mounting the bracket.

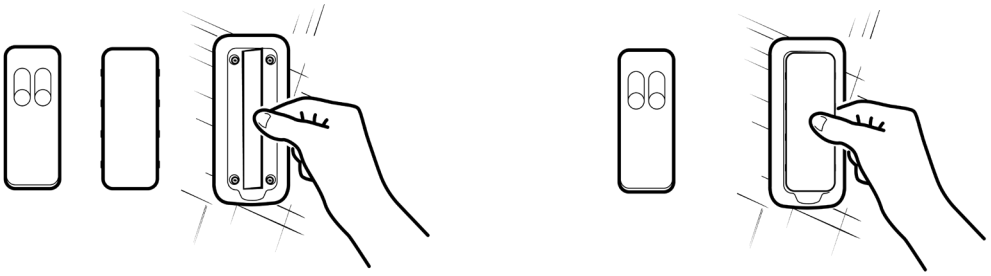
Screw specifications:
Countersunk 45°, flat head, max. ø3.5 mm.



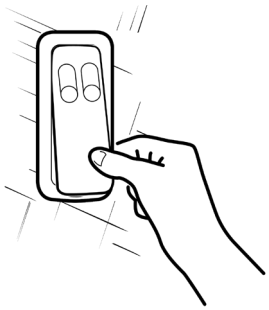
1. Use four screws to mount the main part of the bracket on the recliner.



2. Place the metal plate in the bracket first and then click the plastic top into the bracket.



3. Place the control unit in the bracket.



The control unit is attached to the bracket via a built-in magnet. It can easily be removed from the bracket and used as a remote hand control.

Mounting the BA002

Do not pack the BA002 in heat insulating material. Ensure minimum 20 mm distance to objects close to the BA002 to allow it to emit heat through its surface to the surroundings.

Without mounting bracket

1. Mount the BA002 using two cable ties.
2. Fasten the cable ties around a solid part of the application to fixate the BA002 properly.

With mounting bracket

1. Remove the mounting bracket.
2. Mount the bracket using four screws with a head diameter of 10 mm (8 to 10 mm can be used).
3. Fasten the mounting screws (max. torque 1 Nm).
4. Slide the BA002 onto the mounting bracket.

Note:
The surface to which the battery box is mounted should have an evenness better than ±0.5 mm

Audio indication overview

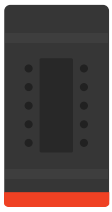
The BA002 has an audio indication system which indicates battery levels, pairing, and charging.

At capacity below 5%, the audio alarm sounds each time the BA002 is activated.
No buzz without key press, the BA002 only buzzes when the application is in use.



Battery levels

((1))



One long buzz
Start charging before use

(3)

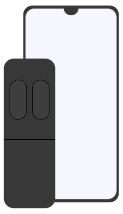


Three short buzzes
Remaining capacity: max. 5 cycles

1% = approximately one cycle (system with two actuators)

Charging/pairing

(1)



One short buzz
When system is paired to hand control or app

(1)



One short buzz
When system starts charging

Connection

Connecting the LA10 system with Bluetooth® dongle

1. Gather all parts for the LA10/Bluetooth® dongle system.

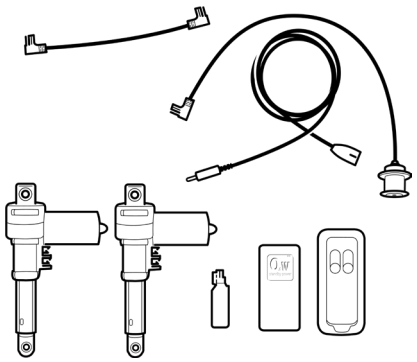
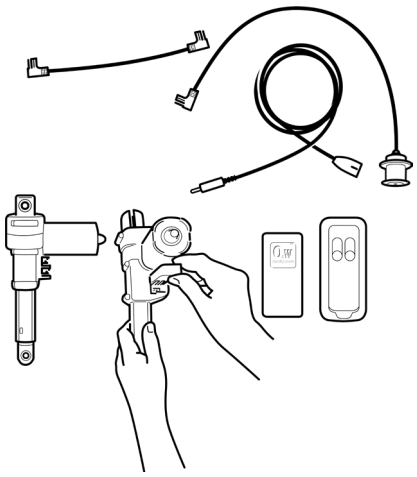
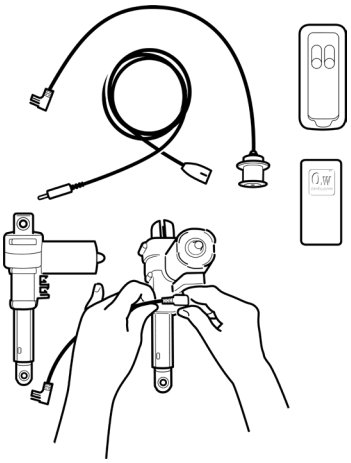


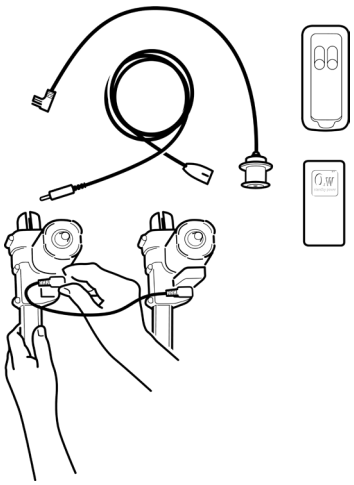
Figure 4 All parts of the LA10/Bluetooth® dongle system

2. Plug the Bluetooth dongle into one of the actuators.

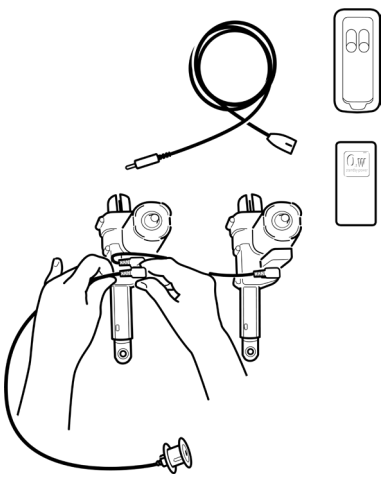


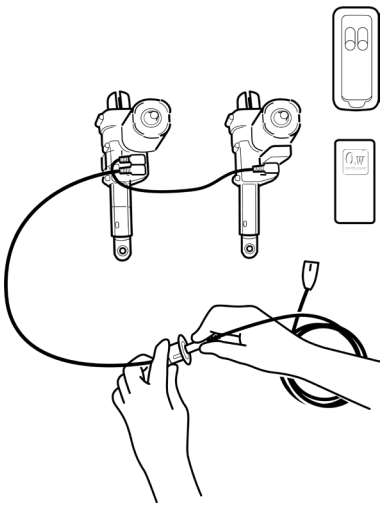
3. Connect the actuators using the connection cable.



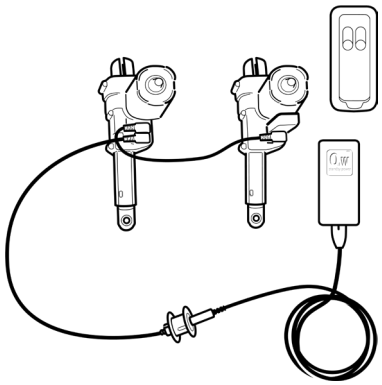


4. Connect the Charging Point CP001/002/003 to one of the actuators and connect the power cable.





5. Connect the power cable to the power supply.



Connecting the LA10 system with BA002

1. Gather all parts for the LA10/BA002 system.

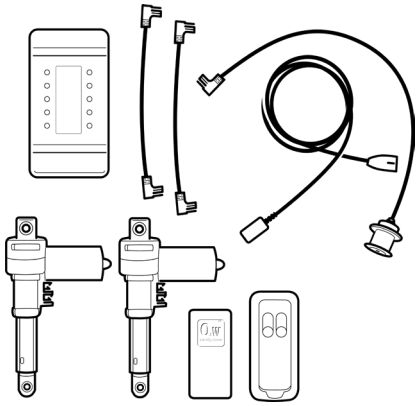
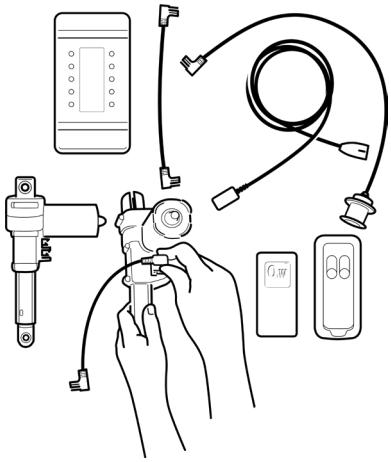
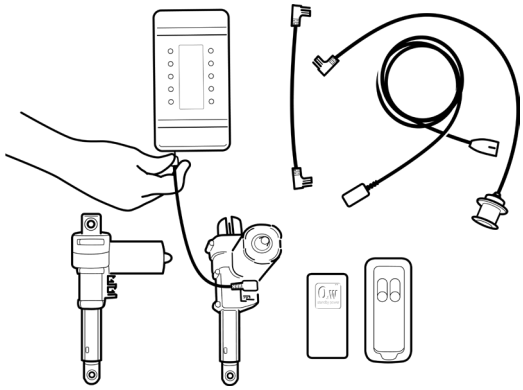


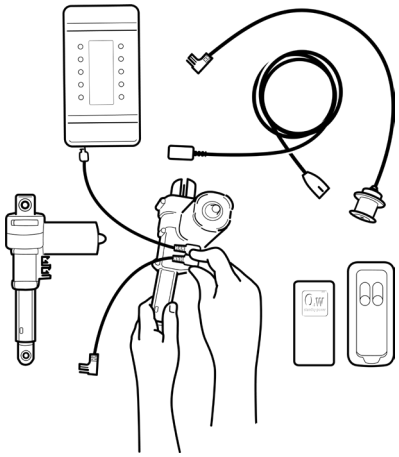
Figure 5 All parts of the LA10/BA002 system

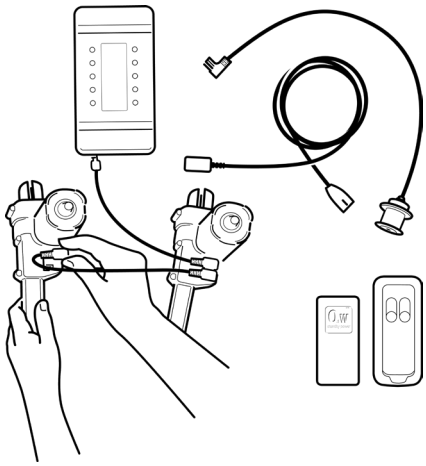
2. Plug one of the connection cables into one of the actuators and connect it to the BA002.



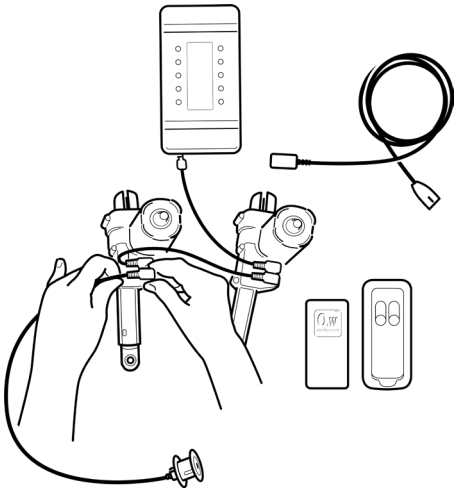


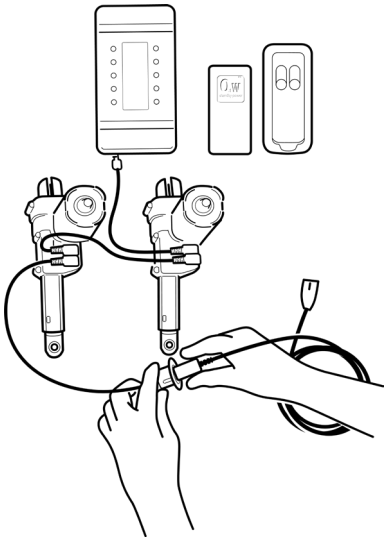
3. Connect the actuators using the other connection cable.



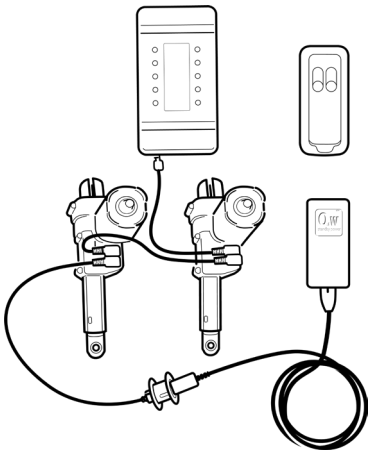


4. Connect the Charging Point CP001/002/003 to one of the actuators and connect the power cable.





5. Connect the power cable to the power supply.



Charging the BA002

The BA002 can be charged via the Switch Mode Power Supply SMPS001, SMPS006, or SMPS007 using a DC cable with 2-poled Mini-Fit plug. LINAK offers various cables with straight plug which can be used (e.g. 0705894-200).

Notes:

- Charging will not start if the capacity is above 80 %.
- If the BA002 has been stored at unknown temperature, we recommend to charge it after 3 months.
- The BA002 has a built-in protection to ensure battery and system lifetime.
- The battery limits the discharge current to approx. 6 A.
- The battery can go into a deep sleep mode. See Deep sleep mode to see what that means and how to exit this mode.

Transportation by plane is not allowed for batteries that are more than 30 % charged.

Deep sleep mode

The battery is designed to reduce the risk of deep discharge. To make it possible for the battery to be stored for a long period of time without being discharged, it goes into deep sleep mode when not used for more than 40 days.

- All BA002 batteries will be in deep sleep mode during transportation.



- To wake the battery up, connect the charging cable.
- When not connected to a system, the BA002 will go into deep sleep mode after 65 minutes.
- When the BA002 is connected to a system, it will go into deep sleep mode when not used for 40 days.

LINAK® will remedy defective Li-Ion batteries built into LINAK products in accordance with the terms stipulated in the LINAK Li-Ion battery disclaimer available on the LINAK website. LINAK explicitly disclaims all other remedies and liability.

BA002 information

Deep sleep mode

- The BA002 is delivered in deep sleep mode and stays there until a charger is connected. In deep sleep mode, the BA002 consumes minimal power which allows for longer storage time.
- The BA002 enters deep sleep mode when it has not been activated for 40 days, or when the battery level reaches 0%.
- If the unit(s) connected is removed from the BA002, it enters deep sleep mode after approximately 1 hour, unless a charger is connected.
- In case of a system error or a direct short-circuit, the BA002 may enter deep sleep mode.

Standby mode

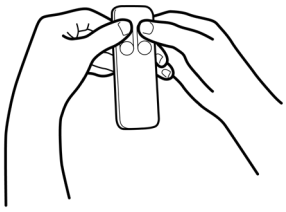
- Standby mode cannot be used actively but is useful knowledge for troubleshooting.
- The BA002 stays in standby mode as long as the capacity is sufficient (max. 40 days), before it enters deep sleep mode.
  Expected time in standby mode

Units connected	Expected standby mode (fully charged)	Estimated standby mode (30% charged)
1 x LA10	65 days	20 days
2 x LA10	60 days	
3 x LA10	50 days	

Pairing the control unit

When connecting the system to power, it will automatically be in pairing mode for three minutes. The pairing mode stops when a paired control unit sends a command.

1. Press the two upper buttons of the control unit to pair it with the system.
   For BP11: press the ‘up’ and the ‘down’ buttons.



If you need to get the system into pairing mode, unplug the system, wait for 10 seconds, and plug the power cable back in.

There is no need to initialise the system when setting it up the first time. You just need to connect it and pair the control.

Initialising the system

1. Push the “down” button on the control unit for the actuator that must be initialised and drive the actuator to its inner position.
2. Release the button on the control unit.

If more than one actuator is connected, the same must be done with the other channels by pressing the matching “down” button on the control unit. The system is now ready for use.

Re-initialising the system

If the system needs to re-initialised, please follow this procedure:

1. Press and hold the “down” button for 10 seconds to make the actuator initialise – the actuator can now drive outwards.

Replacing the battery

Caution/Warning

Contains coin battery

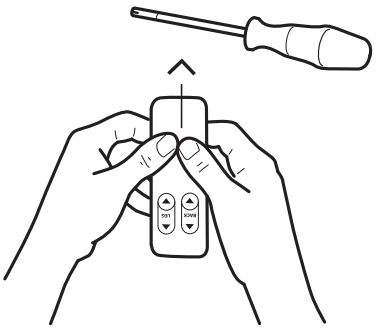
Warning
This product contains a coin battery. A coin battery can cause serious internal chemical burns if swallowed. Swallowing or insertion of a battery into the body may lead to serious injury or death in as little as 2 hours, due to chemical burn and potential perforation of the esophagus.

Warning
Keep new and used batteries out of the reach of children. If you think a battery might have been swallowed or placed inside any part of the body, seek immediate medical attention.

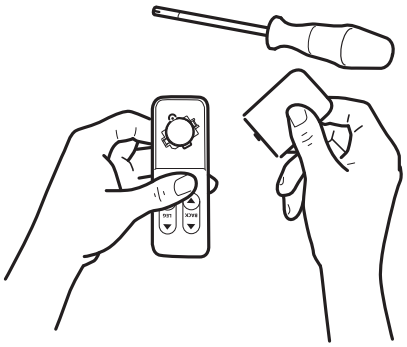
Warning
Dispose of used batteries immediately and safely.

The CR2032 battery can be replaced when needed.

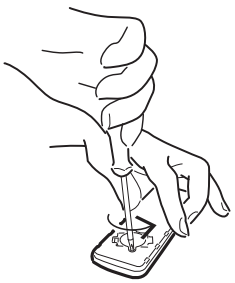
1. Press the battery cover down and slide to loosen it.



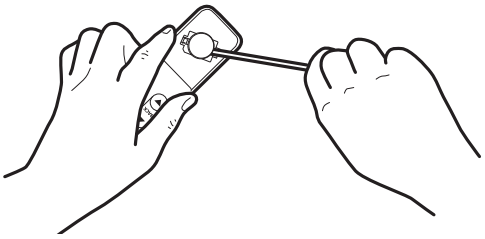
2. Remove the battery cover.

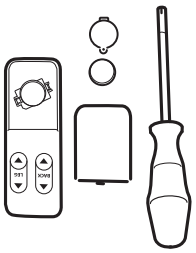


3. Unscrew the battery safety cover.

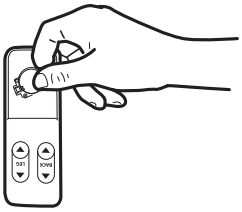


4. Use a screwdriver to remove the old battery.

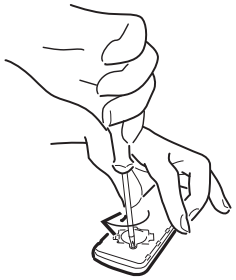




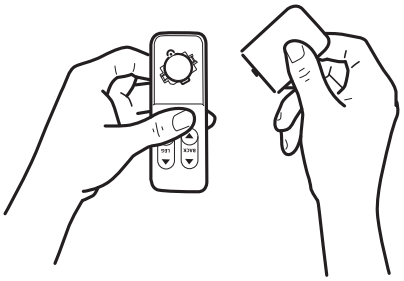
5. Insert the new battery.

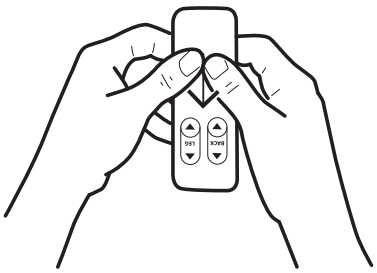


6. Screw the battery cover back on.



7. Put the battery cover back in place.





Repair and disposal

WARNING

Opening the product

Risk of injury to persons and of malfunction

- Do not open the product unless you are authorised to do so.

Only an authorised LINAK® service centre should repair the LINAK products. Products to be repaired under warranty must be sent to an authorised LINAK service centre.

In order to avoid the risk of malfunction, all product repairs must only be carried out by an authorised LINAK Service shop or repairers, as special tools and parts must be used.

If a product is opened by unauthorised personnel there is a risk that it may malfunction at a later date.

LINAK systems or components may be disposed of, possibly by dividing them into different waste groups for recycling or combustion.

We recommend that our product is disassembled as much as possible at the disposal and that you try to recycle it. LINAK systems or components should be disposed of in accordance with the environmental regulations applicable in the respective country.

Almost all our cast plastic parts are supplied with an interior code for plastic type and fibre contents, if any.

Disposal of batteries

Details regarding safe disposal of used and leaking batteries:
Batteries should be disposed in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed through local recycling systems. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the environment.

How to deal with leaking batteries

Leaking batteries should be disposed as described above.

If leaking batteries are discovered in the product, the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product, it might become defective.

It is recommended to use plastic gloves when handling leaking batteries. The contents of leaking batteries can cause chemical burns and respiratory irritation.

If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention.

Accessories and spare parts

Accessories

Order from your nearest LINAK® sales office, distributor or subsidiary.

Spare parts

Please contact your nearest LINAK sales office for information on spare parts.

Contacts

FACTORIES

Denmark - Headquarters
LINAK A/S
Phone: +45 73 15 15 15
Fax: +45 74 45 80 48
Fax (Sales): +45 73 15 16 13
Web: www.linak.com

China
LINAK (Shenzhen) Actuator Systems, Ltd.
Phone: +86 755 8610 6656
Phone: +86 755 8610 6990
Web: www.linak.cn

Slovakia
LINAK Slovakia s.r.o.
Phone: +421 51 7563 444
Web: www.linak.sk

Thailand
LINAK APAC Ltd.
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Web: www.linak.com

USA
LINAK U.S. Inc.
Americas Headquarters
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Fax: +1 502 253 5596
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Fax: +1 416 255 7720
E-mail: info@linak.ca
Web: www.linak-us.com

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Fax: +42 058 170 2452
E-mail: info@linak.cz
Web: www.linak.cz - www.linak.sk

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LINAK Danmark A/S
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E-mail: linak@linak-silkeborg.dk
Web: www.linak.dk

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Web: www.linak.fi

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Fax: +33 (0) 2 41 36 35 00
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