



# CBJ-Home Battery Replacement User manual

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# Preface

Dear User,

We are delighted that you have chosen a product from LINAK®. LINAK systems are high-tech products based on many years of experience in manufacturing and development of actuators, electric control boxes, controls and chargers.

This User Manual will tell you how to replace the batteries in your LINAK Control Box JUMBO Home (CBJ-Home).

We are sure that your LINAK system will give you many years of problem-free operation. Before our products leave the factory they undergo full function and quality testing. Should you nevertheless experience problems with your systems, you are always welcome to contact your local LINAK dealer. LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you.

LINAK provides a limited warranty on its products. This warranty is, however, subject to correct usage in accordance with the specifications, correct maintenance and any repairs being carried out at an authorised LINAK service/repair centre. Changes in installation and usage of LINAK products/systems can affect their operation and durability. The products are not to be opened by unauthorised personnel. You can review the full terms of the LINAK warranty on the LINAK website [www.linak.com/warranty](http://www.linak.com/warranty). Changes in installation and use of LINAK systems can affect their operation and durability. The products are not to be opened by unauthorised personnel.

The User Manual has been written on the basis of our present technical knowledge. We are constantly working on updating the information and we therefore reserve the right to carry out technical modifications.

**LINAK A/S**

## Important information

### Description of the various signs used in this manual.

#### Warning!



Failure to comply with these instructions may result in accidents involving serious personal injury.



Failing to follow these instructions can result in the product being damaged or destroyed.

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## Safety instructions



Safe use of the system is possible only when the battery replacement is carried out according to the instructions in this user manual.

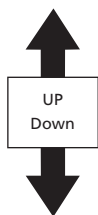


If faults or visible damage are observed on the product, the product must be replaced.

## General information about the JUMBO Home

The JUMBO Home (in short CBJ-Home) is a specially developed solution for patient lifts. The complete system consists of a control box and a battery enclosed in a single elegant module. The CBJ-Home is medically approved and contains a series of features ensuring a safe comfortable lift, e.g. the CBJ-Home is equipped with a soft-start function, emergency lowering, emergency stop etc. The CBJ-Home-batteries are ventilated through a number of ventilation holes on the rear of the housing.

Mounting of CBJ-Home (only vertically)



### Battery information:

#### Prior to first use of the batteries

Prior to first use of the batteries, please make sure that they are charged 24 hours in order to reach proper function and prolong the lifetime of the batteries.

#### Maintenance of batteries

For an optimum lifetime the product must be charged as often as possible.

The batteries must be charged at least every 3<sup>rd</sup> month - otherwise they will be damaged due to self-discharge. It is recommended to test the battery function at least once every year.

The batteries are to be replaced after approximately 4 years or earlier, dependent on the pattern of use. Frequent and high-powered discharges reduce the battery life.

#### Authorised replacement of battery

Only an authorised LINAK service centre or a properly trained customer should change the battery in a CBJ-Home. If a CBJ-Home is opened and a battery changed by an unauthorised person there is a risk that it may malfunction at a later date.

#### Tamper proof

As of Q4, 2017, LINAK has introduced a security label for tamper proof. The use of the security label makes it easier to see if batteries have been replaced by non-authorized persons.

The labels consist of a polyester clear film with special void effect and follow the contours of the control box. Once applied to the substrate sun removal, an irreversible and dry "void" footprint message will detach itself from the face film. Labels which have been removed cannot be reapplied since repositioning will leave visible proof that the product has been opened.

*Placement and presented like below:*



## **Types of batteries that can be used for replacement**

The batteries must only be replaced by the same type of batteries (LINAK A/S part number BA0CBJH00 (2 batteries with 1 wireharness)) or mechanical and electrical equivalent types: 12V, 2.9 AH, 99 x 56 x 79 mm (L x W x H).

The batteries must be new or maintained by means of charging at least every 3<sup>rd</sup> month. The batteries, which make a set, must be supplied with identical production codes. Mismatching of production codes may lead to a severely reduced battery life.

Before mounting ensure that the battery set is correctly connected and check that no connectors are loose.

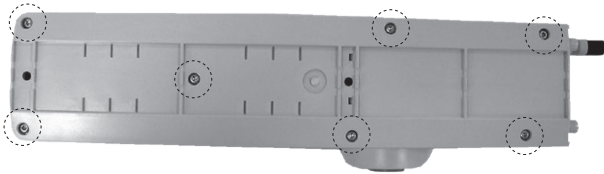
## **Warranty and battery life**

If any batteries built into LINAK products are, within a period of 12 months from the production of the LINAK product as stipulated on the product label, found to be defective, LINAK® will provide a new product. This applies only so far as the products have been used and maintained correctly and have not been tampered with and the systems is unopened. Furthermore, the products must not be exposed to violent treatment. LINAK explicitly disclaims all other remedies. All LINAK products are designed to have an optimum lifetime, but the expected lifetime in a specific application is very dependent on how the products are used.

Further information on LINAK warranty can be found on the LINAK website [www.linak.com/warranty](http://www.linak.com/warranty).

## Replacement of batteries - step by step:

1. Remove all external cables from the control box
2. Dismount the CBJ-Home.
3. Unscrew and remove the 7 torx screws on the rear of the CBJ-Home.



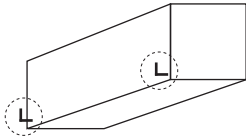
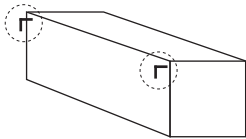
4. Remove the back cover. Please note that there are two assembly versions



(Produced before 1 January 2008)



(Produced after 1 January 2008)



Note whether the battery poles are pointing downwards or upwards (drawings of batteries from the side).

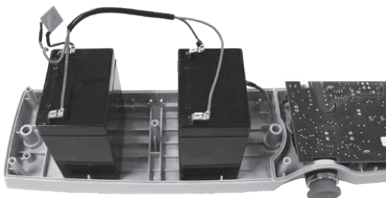


The batteries must be turned the same way when the replacement batteries are connected.

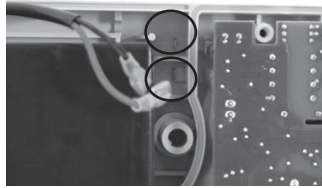


Remember how the polyfuse is placed (the polyfuse is the square shaped article connected to the wires). It must be placed in the same way again. Be careful not to bend the polyfuse steel wires.

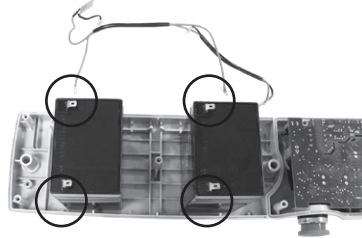
5. Place the batteries in an upright position



6. Pull the battery plugs out  
(please be aware of the locking mechanism on the plugs. Be careful not to damage the wires/plugs)



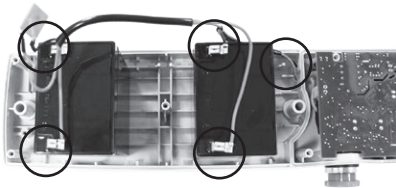
7. Dismount the wires from the batteries



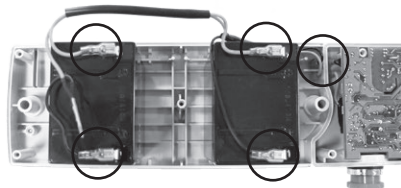
8. Replace the batteries by same type (LINAK A/S part number BA0CBJH00 (2 batteries with 1 wireharness)) OR as described in the section "Battery information".

9. Remount the wires to the new batteries' poles. (+ = red, - = black).

10. Remount the battery plug (+ = red, - = black).



(Produced before 1 January 2008)



(Produced after 1 January 2008)

11. Insert the batteries.



(Produced before 1 January 2008)



(Produced after 1 January 2008)



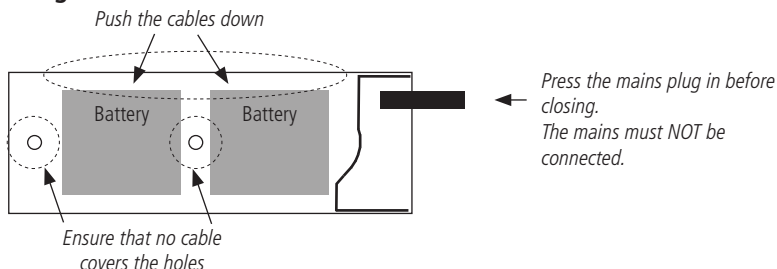
Remember to place the batteries the same way they were before.  
Remember to place the fuse the same way as before.  
(see point 4)



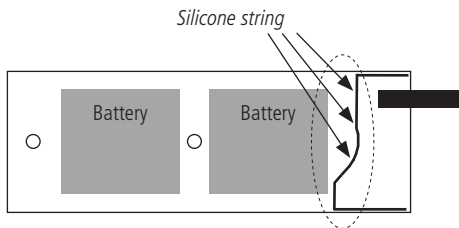
12. Put the wires back into place to ensure that none of the wires are squeezed when remounting the back cover.



**Warning!**



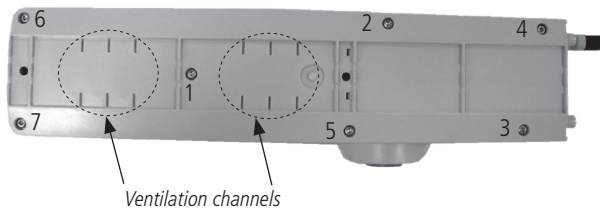
13. Check that the silicone string is fitted and in place before remounting the back cover.



**Warning!**

From the factory the battery compartment is hermetically separated from the electronics compartment with a silicone string. When replacing the batteries this separation must not be damaged or modified as this may allow penetration of battery gas into the electronics compartment with risk of explosion. When replacing batteries in CBJ-Home precautions must be taken to ensure that the sealing material (silicone string) is not damaged and that it is correctly placed in the groove. If the seal is damaged it must be replaced by a new silicone string (LINAK article no. 0008098 for a roll of 100 meters).

14. Remount the back cover as shown below – the numbers indicate in which order to fix the torx screws. Torque of 1,5 - 1,6 Nm.



15. Replacement of the security label. Before replacing labels, the surface of the control box must be cleaned with isopropyl alcohol. Please note that the removing of glue residue may take up to 5 minutes. The security label can be bought at LINAK A/S: Article no. 0891021-A, in rolls of 1,000 pcs.
16. Remount the CBJ-Home in the application.



### **Warning!**

The battery compartment is supplied with ventilation that ensures correct and necessary airing of the battery compartment. These ventilation channels (see marked channels on the picture on page 10) must not be blocked or covered as a positive pressure may occur with risk of explosion.

### **Disposal of the batteries**

The batteries, which are lead-acid batteries, can be returned to LINAK or disposed of in the same way as car batteries.



## FACTORIES

### China

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

### Denmark - Headquarters

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

### USA

#### LINAK U.S. Inc.

North and South American Headquarters  
Phone: +1 502 253 5595  
Fax: +1 502 253 5596  
www.linak-us.com  
www.linak-latinamerica.com

## SUBSIDIARIES

### Australia

LINAK Australia Pty. Ltd  
Phone: +61 3 8796 9777  
Fax: +61 3 8796 9778  
www.linak.com.au

### Austria

LINAK Repräsentanz - Österreich (Wien)  
Phone: +43 (1) 890 7446  
Fax: +43 (1) 890 744615  
www.linak.at - www.linak.hu

### Belgium

LINAK Actuator-Systems NV/SA  
(Belgium & Luxembourg)  
Phone: +32 (0)9 230 01 09  
www.linak.be - www.fr.linak.be

### Brazil

LINAK Do Brasil Comércio De Atuadores Ltda.  
Phone: +55 (11) 2832 7070  
Fax: +55 (11) 2832 7060  
www.linak.com.br

### Canada

LINAK Canada Inc.  
Phone: +1 502 253 5595  
Fax: +1 416 255 7720  
www.linak-us.com

### Czech Republic

LINAK C&S s.r.o.  
Phone: +42 058 174 1814  
Fax: +42 058 170 2452  
www.linak.cz - www.linak.sk

### Denmark - International

LINAK International  
Phone: +45 73 15 15 15  
www.linak.com

### Denmark - Sales

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Fax: +45 86 82 90 51  
www.linak.dk

### Finland

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www.linak.fi

### France

LINAK FRANCE E.U.R.L  
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Fax: +33 (0) 2 41 36 35 00  
www.linak.fr

### Germany

LINAK GmbH  
Phone: +49 6043 9655 0  
Fax: +49 6043 9655 60  
www.linak.de

### India

LINAK A/S India Liaison Office  
Phone: +91 120 4531797  
Fax: +91 120 4786428  
www.linak.in

### Ireland

LINAK UK Limited (Ireland)  
Phone: +44 (0)121 544 2211  
Fax: +44 (0)121 544 2552  
+44 (0)796 855 1606 (UK Mobile)  
+35 387 634 6554  
(Republic of Ireland Mobile)  
www.linak.co.uk

### Italy

LINAK ITALIA S.r.l  
Phone: +39 02 48 46 33 66  
Fax: +39 02 48 46 82 52  
www.linak.it

### Japan

LINAK K.K.  
Phone: 81-45-533-0802  
Fax: 81-45-533-0803  
www.linak.jp

### Malaysia

LINAK Actuators Sdn. Bhd.  
Phone: +60 4 210 6500  
Fax: +60 4 226 8901  
www.linak.my

### Netherlands

LINAK Actuator-Systems B.V.  
Phone: +31 76 5 42 44 40  
www.linak.nl

### New Zealand

LINAK New Zealand Ltd  
Phone: +64 9580 2071  
Fax: +64 9580 2072  
www.linak.com.au

### Norway

LINAK Norge AS  
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www.linak.no

### Poland

LINAK Polska  
LINAK Danmark A/S (Spółka Akcyjna)  
Phone: +48 22 295 09 70 /  
+48 22 295 09 71  
www.linak.pl

### Republic of Korea

LINAK Korea Ltd.  
Phone: +82 2 6231 1515  
Fax: +82 2 6231 1516  
www.linak.kr

### Russia

LINAK LLC  
Phone: +7 495 780 3161  
Fax: +7 495 687 1426  
www.linak.ru

### Slovakia

LINAK Slovakia s.r.o.  
Phone: +42 51 7563 444  
www.linak.sk

### Spain

LINAK Actuadores, S.L.u  
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Fax: +34 93 588 27 85  
www.linak.es

### Sweden

LINAK Scandinavia AB  
Phone: +46 8 732 20 00  
Fax: +46 8 732 20 50  
www.linak.se

### Switzerland

LINAK AG  
Phone: +41 43 388 31 88  
Fax: +41 43 388 31 87  
www.linak.ch - www.fr.linak.ch  
www.it.linak.ch

### Taiwan

LINAK (Shenzhen) Actuator systems Ltd.  
Taiwan Representative office  
Phone: +886 2 272 90068  
Fax: +886 2 272 90096  
www.linak.tw

### Turkey

LINAK İth. İhr. San. ve Tic. A.Ş.  
Phone: +90 312 4726338  
Fax: +90 312 4726635  
www.linak.com.tr

### United Kingdom

LINAK UK Limited  
Phone: +44 (0)121 544 2211  
Fax: +44 (0)121 544 2552  
www.linak.co.uk

## DISTRIBUTORS

### Argentina

NOVOTEC ARGENTINA SRL  
Phone: 011-4303-8989/8900  
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### Colombia

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### Indonesia

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+6 221 544 8965  
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Fax (Sales): +6 221 619 4658  
www.hej.co.id

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### Kingdom of Bahrain

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Fax: +974 44689135

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Fax: +7 812 3271454  
www.fam-drive.ru

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Phone: +65 6844 0288  
Fax (Sales): +65 6844 0070

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Industrial Specialised Applications CC  
Phone: +27 011 466 0346  
www.isaza.co.za

### United Arab Emirates

Mechatronics Industrial Equipments LLC  
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