

Assembly Instructions

⚠ Important ⚠

Before you begin, read and comply with all safety and operating instructions, and ensure all parts and correct quantities are included.

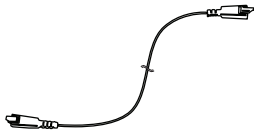
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(1) 0190041
BA001 Battery
(lithium-ion)



(1) 0190042
Battery cable

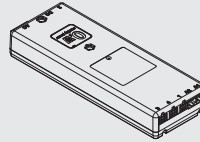


(1) 0110254 - 2" x 3" Hook strip
(1) 0110255 - 2" x 3" Loop strip



Rechargeable Battery Pack System 99045

Battery / Control Box Compatibility:



The CBD6S Linak control box is compatible with this battery pack.



Older CBD4 Linak control boxes are not compatible with this battery pack.

Installation on Freedom One eLift

1. The battery and tray should be free from dirt, dust, grease and moisture to maximize hook and loop adhesion. Remove the adhesive backers and attach the hook and loop strips to the bottom of the battery as shown. **Figure 1.1.**
2. Plug the battery cable into the battery. **Figure 1.2.**
3. Unplug the control box AC power plug and leave the power cord in the bottom of the tray. This AC cord will be used later to charge battery.
4. Attach the battery to the bottom of the tray as shown.
5. Plug the DC cord into the control box. (DC socket).

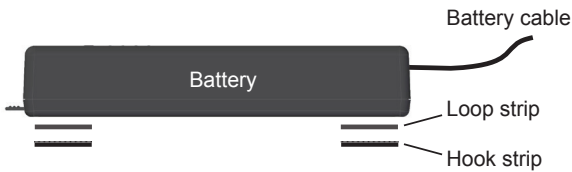


Figure 1.1

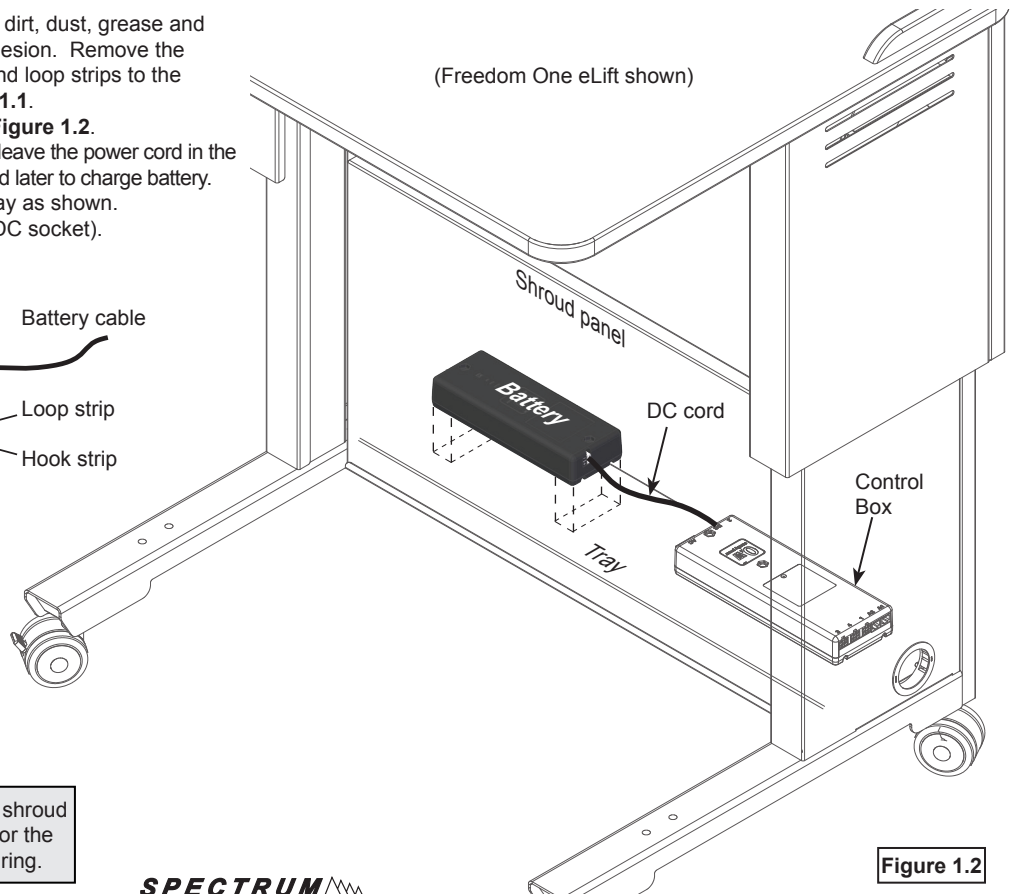


Figure 1.2

Note: On Freedom One eLift Lecterns, the shroud panel can be removed with 2 screws and / or the worksurface extended to access internal wiring.

Installation on Pivot Workstation

1. Carefully flip the workstation over onto a non-abrasive worksurface- this may take several people.
2. If the lectern has a storage bin, locking pull-out drawer, or pull-out keyboard tray, it will have to be removed (with a Phillips driver) to provide access to install battery.
3. The battery and tray should be free from dirt, dust, grease and moisture to maximize hook and loop adhesion. Remove the adhesive backers and attach the hook and loop strips to the bottom of the battery as shown. **Figure 2.1.**
4. Plug the battery cable into the battery. **Figure 2.2.**
5. Unplug the control box AC power plug and put in a safe place. This AC cord will be used later to charge the battery.
6. Attach the battery to the bottom of the worksurface as shown.
7. Plug the DC cord into the control box. (DC socket).
8. Replace the storage bin, locking pull-out drawer, or pull-out keyboard tray, if necessary.
9. Flip the workstation upright.

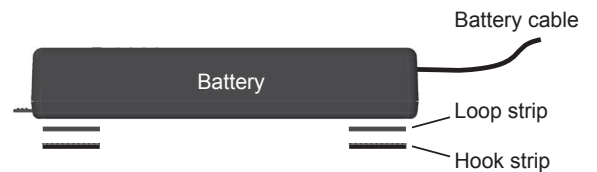


Figure 2.1

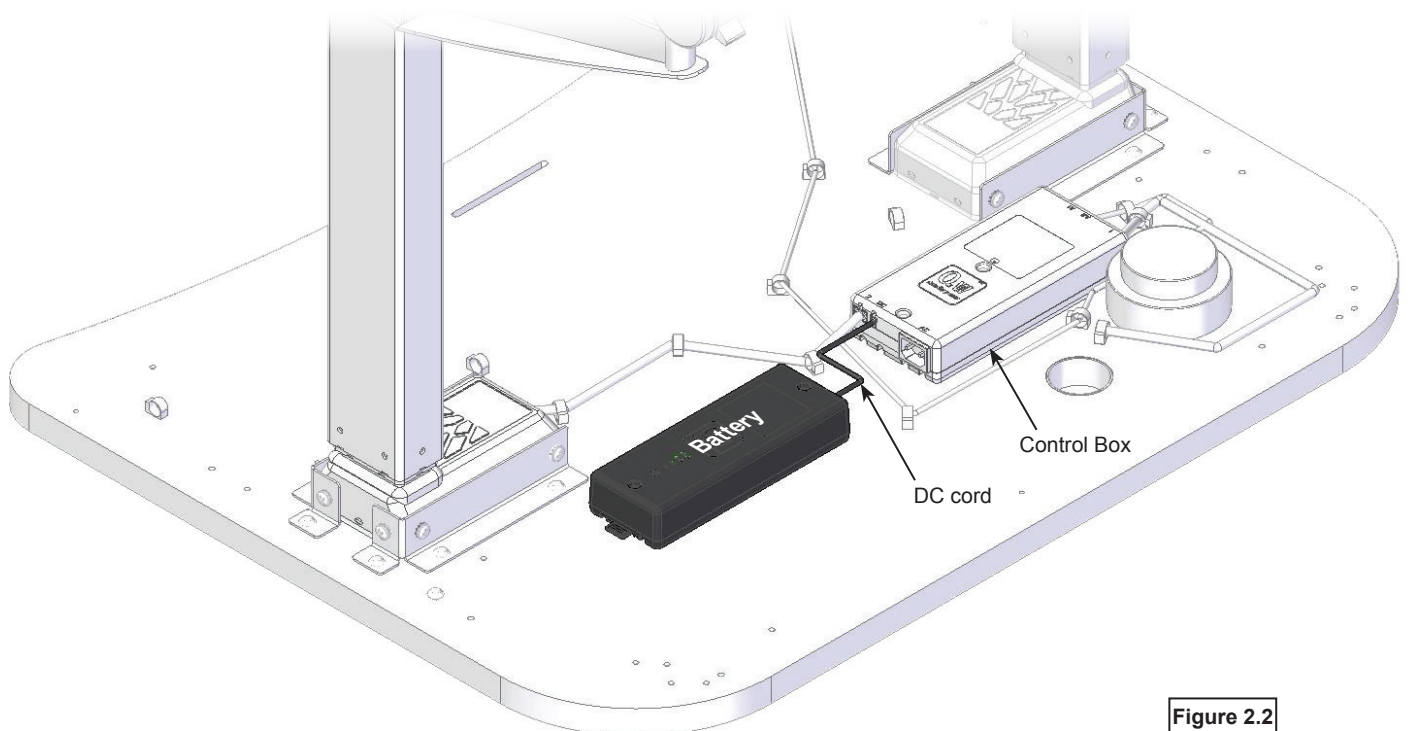


Figure 2.2

Charging Battery

To Charge:

1. Leave the battery plugged into the control box with the DC cord.
2. Plug the control box into a wall outlet using the AC power cord.
3. When the AC power cord is connected, and charging has started, the battery will beep twice. Charge time is approximately 5 hours at room temperature (around 20° C).

There are four light bars indicating the battery capacity:

Capacity between 0% and 5%	No lights
Capacity between 5% and 25%	LED 1 lights
Capacity between 25% and 50%	LED 1, and LED 2 lights
Capacity between 50% and 75%	LED 1, LED 2, and LED 3 lights
Capacity between 75% and 100%	LED 1, LED 2, LED 3, and LED 4 lights

The LED light bar indicators turn on when you press the small black button below the light bars. The light will only be on for a few seconds.

- When the capacity is below 25%, the audio alarm sounds once when activating the battery.
- The battery turns off to protect itself when the capacity is approximately 5%. Below the 5% capacity, the audio alarm sounds when activating the battery. No LED light bars can be activated.
- When charging, the LED light bars indicate the current charge capacity
- When the charging is complete the LED light bars will turn off
- Charging will not start if the capacity is above 75%

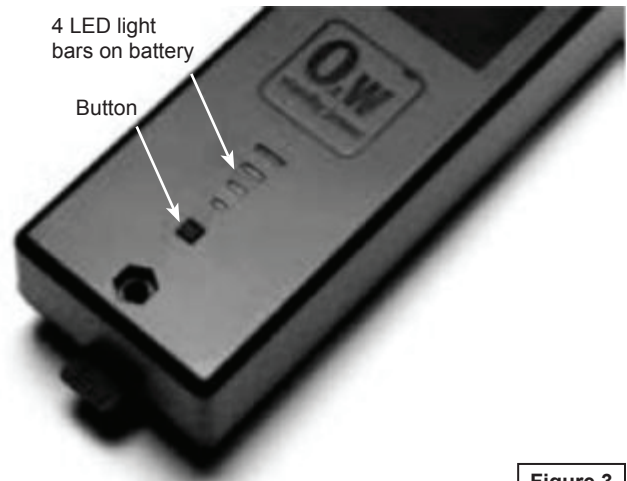


Figure 3

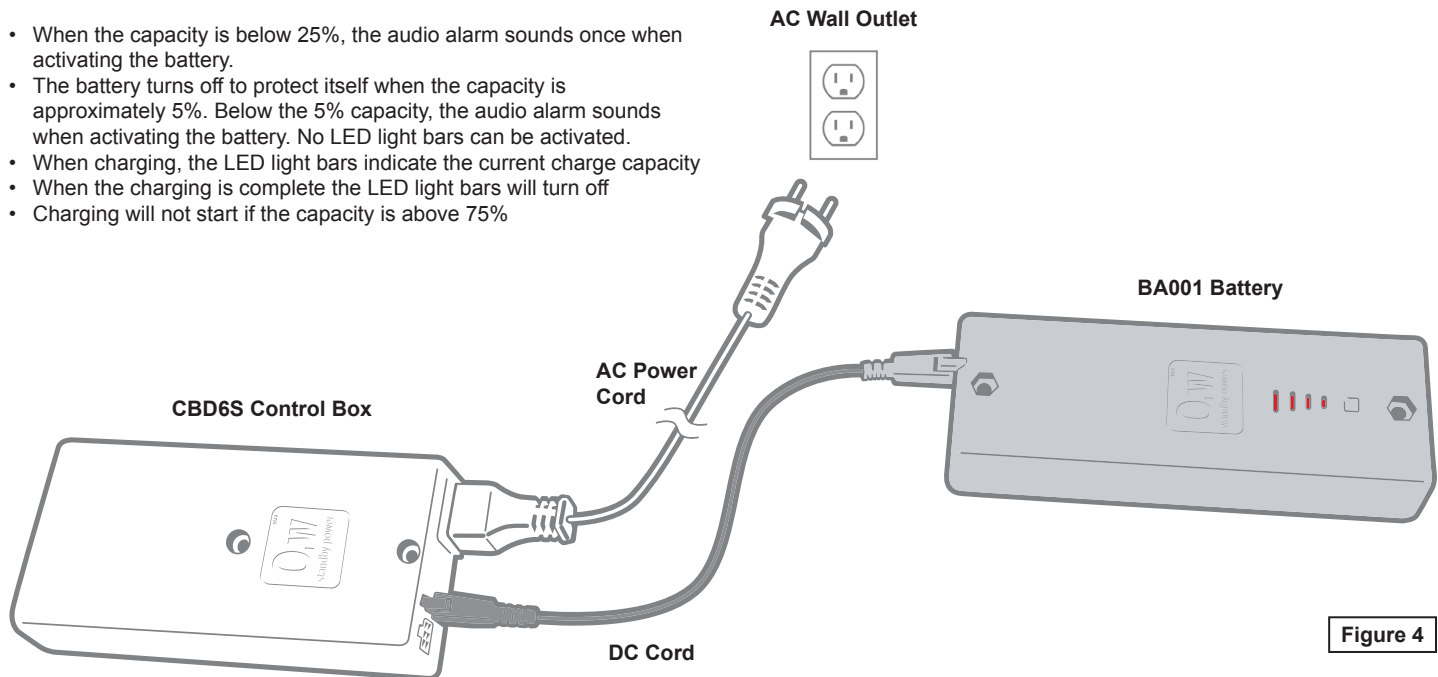


Figure 4

Battery protection

- The battery limits the discharge current to approximately 10A by disconnecting the power.
- The battery can go into a protected mode. Then a reset is made only after disconnecting the cable and in some cases charging the battery.
- If the battery stops working please try the following:
 - Disconnect the cable from the battery.
 - Press the button on the battery for minimum 10 seconds.
 - Charge the battery
 - Connect the battery again.
- In overload situations, the LED light bars will still turn on when activated. If the capacity is below approximately 25% it is not possible to identify if the battery has switched off due to overload or low capacity. Rule of thumb is that the battery must be charged if no LED light bars can be turned on.
- To check/identify the problem, charge the battery. If the battery still switches off it is due to an overload situation.

Switching between AC supply and battery use

Please observe that when you change from standard mains supply to the BA001 (battery) the first operation may be at a lower speed/performance. This only refers to the very first operation after the disconnection of the mains supply.

The technical reason for this is that the charge left in the control box is still high, so the control box assumes the mains supply is still connected and regulates according to mains supply characteristics. After about ½ hour, or after trying to operate without power, the charge is low enough to be detected as battery operation mode. The same goes if operated with battery once.

Safety

⚠ General Battery Safety Notes ⚠

- Only the CBD6S and the SMPS006 can be used for charging the BA001 battery pack.
- In connection with charging/discharging notice that the charger/battery can become warm. Keep away inflammable objects.
- Keep the charger and the battery away from children. The battery must be stored on a non-flammable base.
- In case of damaged batteries, the battery must be removed and replaced immediately to avoid danger and malfunction.
- The BA001 must not be exposed to heat or fire. Avoid any contact with water and direct sunlight.
- Do not cover neither the charger nor the BA001 during charging.
- The surface where the battery is mounted must be suitable and correspond to the demands for e.g. weight and temperature.
- In case of suspicious smoke, do not use the battery.
- The capacity of the BA001 will deteriorate over time. The deterioration will depend on use and temperature. Under ideal conditions, the discharge capacity is at least 70% after 500 cycles.
- A BA001 with below 25% capacity must not be stored. The battery must be recharged before storage (25% equals to 1 LED light bar).
- For best performance, perform a full battery charge every time.

Packaging, Transportation, and Storage

The BA001 is a Lithium Ion battery and must be packed and transported according to applicable regulations. This must also be considered when repacking and in case of return shipment. Note: Damaged batteries cannot be transported.

Packaging

The BA001 boxes are to be packed according to UN3480 PI: 965 Section II. From the factory, the battery is packed in a primary and a secondary packaging. The primary packaging is a single piece; the secondary packaging contains 8 pieces. The primary and secondary packaging is labelled with the label shown (example) indicating that the package contains Lithium Ion batteries.



- Before unpacking, please inspect the packaging for damages to avoid any injuries.
- Damaged batteries must be disposed according to the material safety data sheet of the BA001 and local regulations.
- The BA001 can be packed with other products/components, but it must remain in the primary packaging and the new secondary packaging must be labelled with the label shown above. The label must be placed visible at the secondary box/overpack.

Transportation

When transporting the BA001 (a Lithium Ion battery) the current regulations must be observed. This applies to ADR (road transportation), IATA (air shipping) and IMDG (sea freight). When transporting, pay attention to handling and minimise the risk of e.g. dropping the batteries and thereby prevent malfunction and injuries.

Storage

The batteries must be stored in an applicable storage room avoiding direct sunlight and high temperatures.

This BA001 battery is developed for furniture and for indoor use. Do not use it in industrial kitchens or in other environments that have to be cleaned with aggressive detergents.

Warranty

There is a 12 months' warranty on the BA001 battery against manufacturing faults from the production date of the individual products (see label). LINAK A/S' warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. A loss of capacity over time must be expected. For further details, please see LINAK A/S ordinary conditions of sale.

Maintenance

Clean dust and dirt on the outside of the BA001 at appropriate intervals and inspect them for damage and breaks. Inspect the connections, cables, and plugs and check for correct functioning as well as fixing points.



The recommended storage conditions are:

Temperature:	0°C to +45°C
Relative humidity:	45 - 85% RH
Air pressure:	700 - 1060 hPa
Altitude:	< 2000 m
Recharging during storage	Recharge the battery 6 months at the latest after production date stated on the label.

Storage temperature range:

Period:	Temperature range:
1 year	0°C to +25°C
6 months	0°C to +50°C
1 month	0°C to +60°C

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 being destroyed.

Safety Information

General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed. Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.

- 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 the squeezing of fingers or arms.

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

Before installation, re-installation, or troubleshooting:

- Stop the DL5/DL6
- Pull out the mains plug.
- Relieve the DL5/DL6 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 of the control box is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box is connected to the mains. See the User Manual for LINAK actuators, if necessary.

During operation:

- If the control box 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.
- The products must only be used in an environment, that corresponds to their IP protection.

Misc.

Updated manuals and declarations can always be found here: www.linak.com/desklinae

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 system. 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 defect.

It is recommended to use plastic gloves when handling leaking batteries. The contents of a 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."

Only for EU markets

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Only for Non-EU markets

- Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.
- Moreover, children must be under surveillance to ensure that they do not play with the product.

Misuse

- Do not overload the actuators – this can cause danger of personal injury and damage to the system.
- Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.
- Do not use the system in environments other than the intended indoor use.

Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK workshops or repairers, as special tools must be used and special gaskets must be fitted. Lifting units under warranty must also be returned to authorised LINAK workshops.

 **Warning!** If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.

Spare Parts

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK workshops.

LINAK 

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GROUP HEADQUARTERS
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Item:BA001 Li-ion Battery 24V 2.2Ah 53Wh
U Out:24V ---, I Out Max.9A
U In:Charge 29V-40V ---, I In Max 0.5A

CAUTION

- DO NOT SHORT CIRCUIT.
- MUST BE DISPOSED OF ACCORDING TO SAFETY DATA SHEET.
- DO NOT USE A DAMAGED BATTERY
- USE SPECIFIED CHARGER ONLY.
- MAY EXPLODE IF DISPOSED IN FIRE.

Battery pack produced by

Greenway for LINAK



Assembled in China