



LTW Battery & Preventative Maintenance

The LTW battery option can be charged either via the control box mounted on the base/workstation or via the Switch Mode Power Supply. The LED light bars on the top of the box show the current capacity status.

There are four light bars indicating the battery capacity:



The four LED light bars on the BA001

Capacity between 0% and 5%:	No light
Capacity between 5% and 25%:	LED1 light
Capacity between 25% and 50%:	LED1 and LED2 light
Capacity between 50% and 75%:	LED1, LED2 and LED3 light
Capacity between 75% and 100%:	LED1, LED2, LED& LED4 light

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

Please notice:

- 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 approx. 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%

The battery has built-in protection to ensure the lifetime of the battery and system.

- The battery limits the discharge current to approx. 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 approx. 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.
- As check/identification of the problem, charge the battery. If the battery still switches off it is due to an overload situation.

Charging via control box:

In a DESKLINE system, the battery is connected to the control box. To charge the battery while still mounted on the application, it is easiest to connect an appropriate mains cable to the control box and plug in the mains.

Charging time is approx. 5 hours at room temperature (around 20° C). The LED light bars turn off when fully charged. When mains is connected via the controller and charging is started, the battery will beep twice.

Synchronizing Actuators

As of 2017, all of our lift systems have built-in synchronous controllers and actuators that ensure parallel operation.

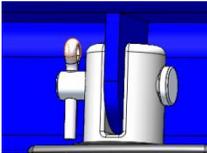
Initial install and synchronization: After plugging in all actuators to the controller, plugging in the hand switch, and finally plugging in the main power cord, establish that the area around the lift is safe to operate. Press the down button until all actuators are lowered, then release the button. Press the down button once again and continue to hold it down for a minimum of 5 seconds. This will re-sync the actuators.

Re-synchronization if needed: If there becomes a situation where these systems do not rise, repeat the synchronizing process above. This will re-sync the actuators, and proper operation should be restored. If operation still does not function properly, please contact LTW.

Preventative Maintenance

Actuators (Inspect at least twice a year, unless otherwise noted)

- ✓ **Electronics must be inspected at attachment points, wires, and plugs. Check the connections and cables, and plugs for correct functioning.**
- ✓ **Check the actuator clevis pins and make sure they are secured with the cotter pins.**



- ✓ **The actuators are closed units and require no internal maintenance.**
- ✓ **Inspect the actuators and clean periodically with a damp or dry cloth to ensure removal of dust and dirt, also check for any mechanical damages, wear and breaks, worn out parts must be replaced.**
- ✓ **Control boxes have fuses and if you have to replace it the o-ring must be replaced as well, the o-ring must be greased with a water free Vaseline when replacing it.**
- ✓ **Cleaning Frames and Lift System is recommended to be done with a damp cloth without solvents, to remove dust and soil. If it is necessary to clean with anything else, please consult LTW prior to doing so.**

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