

# Lithium-Ion Battery Charger

## Instructions

### 1. BC91 Battery Charger basic information

The charger forms part of the new LTI-RSL Steeper Lithium-ion battery system, which provides lighter and longer-lasting batteries for prosthetics use. The charger is housed in a gray/blue case, and is intended for use with LTI-RSL Steeper Lithium-ion batteries only.

**DO NOT USE CHARGER WITH ANY OTHER TYPE OR MAKE OF BATTERY.**

The charger unit is very easy to use. Simply connect the wall-mounted transformer (TR01) to the power outlet, connect to the charger and insert the recharge plug to the recharge connector on the prosthesis. Leave it connected to the charger until a steady green light shows. The battery is then fully charged.

The best way to use the battery is to get into the routine of recharging it every day. This will assure a full charge each day. Unlike the old Ni-Cd batteries, these batteries can be recharged from a partially-used state without any problems. Lithium-Ion batteries do not suffer from the “memory effect” shown by older (Ni-Cd) battery systems. This means they can be recharged at any time, even from a partially discharged state, and will fully charge to maximum capacity.

### 2. Using the charger

The charger has a 3-color lamp indicating charger state (red, green or amber).

First, plug the wall-mounted transformer into the wall outlet. Then, plug the small transformer outlet connector into the charger, making sure it is firmly pushed home. The charger lights may flash intermittently for a few seconds. This is normal. The red light on the charger will illuminate. Plug charger output plug into the prosthesis battery recharge connector and turn the switch to the charge position (toward the recharge connector). The red light will go out, and the amber lamp will flash and then settle to a steady color. This indicates that the battery is charging. When the battery is fully charged the amber light will go out and a steady green light will come on.

Note: If the battery was fully charged when connected, the amber light will flash and the green light will come on almost immediately. If the battery is fully discharged and not recognized by the charger, connect it to the battery charger for about an hour (even if the red light stays illuminated). Then disconnect the battery and reconnect it. This should cause the yellow light to illuminate and the normal charge process to begin.

The charging process takes approximately three hours, depending on the state of charge of the battery. However the majority of the charging (80%) is done in the first hour. The battery will work well after this time, but obviously it will not provide as long a working time before the next recharge.

### 3. Battery life

For maximum performance and battery life, try to follow these rules:

- a) the battery should be charged regularly - every day if possible
- b) store batteries at normal room temperature - cold will affect their performance
- c) stop using the battery and recharge it whenever the prosthesis becomes slow

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