

# QUICK & EASY DIGITAL CHARGER

(No. 41050)

#### Dear Customer

thank you for purchasing this LRP product. Please read these instructions carefully in order to gain maximum performance from your QUICK & EASY-CHARGER and your NiCd batteries.



#### 1 Connection

 Connect the crocodile clips of the power supply wires with a 12V car battery or power supply.

The green LED lights up when connected properly.

- Connect a NiCad Battery with the white battery connector of the charge wires.
- 3. Always look for right polarity

RED = + Plus BLACK = - Minus

#### 2 12V Power Supply

- The QUICK & EASY-CHARGER can be connected to different 12V power supplies. Following a ranking of the best suitable supplies:
- 1. 12V car battery (fully charged)
- 2. Stabilised power supply 12V DC 12.5 to max. 13.8V, minimum 5 Ampère
- 12V car battery connected to a car battery charger (battery voltage max. 13 8V)
- 4. 12V car battery charger 3-6 Ampère max.
- Attention: due to the unstable voltage provided by car battery chargers, the QUICK & EASY-CHARGER's LED might flash in a irregular way in the stand by mode.
- As soon as a NiCd battery is connected, QUICK & EASY-CHARGER's LED will light up in the proper way.

#### 3 Safety Instructions

- Don't bring the QUICK & EASY-CHARGER in touch with water.
- Always observe the charging process.
- Disconnect the power supply and NiCd battery from the QUICK & EASY-CHARGER when the charging process is finished. Don't leave the charger connected to the power supply when not observed.
- Charge only NiCd batteries suitable for quick charge. Other battery types might get destroyed by a quick charge.
- The NiCd battery should be at room temperature before being charged.
- Only charge NiCd batteries with 6, 7 or 8 cells of the identical type (manufacturer, capacity, voltage) together in one pack.
- In case the complete battery pack or single cells get far too hot, stop the charging process.
- Never charge 2 battery packs parallel.
- Follow the instructions of the battery manufacturer.
- · Make sure that all connections are correct.
- In case you change the original connectors of the charge wire, use polarity proof systems (i.e. LRP Hi-Amp No 6280). Don't shorten the wires when changing connectors.

#### Internal Overload Protection

 In case of being continuously over loaded, the QUICK & EASY-CHARGER will shut off automatically. Only the strongly reduced trickle charge current will continue. The LED is completely off.

#### **5** Internal Safety Timer

- The charge of batteries with a too high capacity or being not suitable for quick charge will be stopped by the cell specific internal safety timer. Only the strongly reduced trickle charge current will continue. The LED is completely off.
- Normally the quick charge is finished before the safety timer is activated, therefor this has absolutely no negative influence.

#### Charging 6-8 cells

- The NiCd battery should be cooled down to room temperature before being charged.
- It does not matter if the NiCd battery is partly charged already when connected to the QUICK & EASY-CHARGER. Only the LED might be misled a little in the beginning. Under all circumstances the QUICK & EASY-CHARGER realizes when the NiCd battery is fully charged and shuts of automatically.
- The LED flashes shortly after pushing the Start/Stop button and indicates
  that the fast charge process is started. The longer the charging process
  proceeds, the longer flashes the LED to show the batterie's state of
  charge. With some experience you will be able to tell how much longer the
  charging process will take by watching the LED. The NiCd battery is nearly
  charged, when the LED switches off only for a very short time.

#### Charging a Completely Discharged

• The LEO will flash extremely fast after pushing the Start/Stop button when you connected a completely discharged battery, it will only charge with a reduced refreshing current. This is to preserve the battery. When the battery has gained its minimum working voltage again the QUICK & EASY-CHARGER switches automatically to the guick charge mode.

#### **8** Charging of Transmitter Batteries

- Always take the transmitter battery out of the transmitter when using the quick charge mode. In case of defects the transmitter might be damaged by heat or battery acid.
- Don't charge by the transmitter's charge socket. The transmitter electronic could be damaged by too high charging currents
- The full charge automatic of the QUICK & EASY-CHARGER could be misled by the transmitter electronic.
- Therefor connect transmitter batteries always direct to the QUICK & EASY-CHARGER.

#### Delta Peak Auto Cut System

- The QUICK & EASY-CHARGER realizes when the NiCd battery is fully charged and stops the quick charge automatically. The LED will switch off completely.
- Disconnect the NiCd battery.
- The fully charged battery should be hand warm at the end.

#### Trickle Charge

When the battery is fully charged (LED is off) the QUICK & EASY-CHARGER
continues with a strongly reduced trickle amp rate in order to keep up the
voltage and capacity of the battery. The trickle charge mode is not limited
in time.

## Interrupting the Quick Charge

 This can be done by simply pushing the start/stop button or by disconnecting the battery of the Quick & Easy Charger. The LED will light up continuously to indicate stand by mode. The charging process can be restarted by connecting the battery and by pressing the start/stop-button again.

## Interrupting the 12V-Supply While a NiCad Is Connected

 The LED lights up continuously when the 12V power supply is disconnected while a NiCd battery is connected. The QUICK & EASY-CHARGER switches to stand by mode providing itself out of the connected NiCd battery. After reconnecting the 12V power supply, the quick charge is restarted.

#### **E**Charge Stop

- After disconnecting the NiCd battery from the QUICK & EASY-CHARGER the LED lights permanently to indicate the stand by mode.
- A fully charged battery connected to the charger will not be charged any further.

### Wrong Connection

- Short circuit at the NiCd battery connector: LED flashes rapidly.
- Wrong polarity at the NiCd battery: LED lights up permanently, no charging function.
- Wrong polarity at the 12V power supply: LED does not light up.
- Short circuit at the 12V crocodile clips: LED does not light up.
- In case a charged NiCd battery is connected, the internal fuse might react.
   The wires will get very hot, the QUICK & EASY-CHARGER will be abused heavily. Avoid these wrong connections!

#### Trouble Shooting Guide

- Green LED does not light up
- Bad connection
- Wrong Polarity (+ and of the power supply wire connected wrong)
- Internal Fuse broken
- Open the case and put in the included spare fuse.

#### 10 Battery Maintenance

- Follow the instructions of the battery manufacturer.
- For best results we recommend to discharge the NiCd-battery completely after use with a car head lamp or a suitable discharger.

#### Technical Data Suitable for: 6 cells NiCd 7 cells NiCd 8 cells NiCd **Battery Voltage** 7,2 V 9,6 V 8,4 V 1200-4600 mAh 1200-4600 mAh 500-3600 mAh Batt. Capacity max. Current 4.0 A 2,2 A 0,8 A **Necessary Power Supply** 11.5-18.4 V

Charge Start Automatic Super-Delta-Peak

#### Repair Procedures/Warranty

In case of problems first check the trouble shooting guide or contact your hobby shop or *LRP-importer*. In case of damage, repair fees are normally far below the recommended retail price of a new unit. Hobby shops are not authorized to replace charger thought to be defective.

**Warranty** can only be accepted if it is claimed by the customer on the warranty sheet and the control sheet and the original sales receipt are included.

For quick repair and return we definitely need your address, detailed description of the malfunction and the original sales receipt. Repair may be refused without sales receipt.

To guarantee a proper repair, cut off or worm plugs and wires will be replaced and charged in any case. Any charger treated severely with silicone or anything similar inside, might not be repairable. Charger sent in for repair that operate perfect normally will be charged with a service fee. Therefor first check with the trouble shooting guide.

LRP guarantees this charger to be free from defects in materials or workmanship for 90 days from the original date of purchase verified by sales receipt.

This warranty doesn't cover: suitability for specific operation, incorrect installation, components worn by use, application of reverse or improper voltage, shipping, tampering, misuse like any soldering inside the unit, poor installation, replacing of wires on the board, connection to electrical components not mentioned in the instructions, mechanical damage, immersion of water and cutting off the original wires, plugs, connectors and switches.

Our warranty liability shall be limited to repairing the unit to our original specifications. Because we have no control over the installation or use of this product, in no case shall our liability exceed the original cost of this unit. We can't accept any liability for any damage resulting from using this product. By the act of installing or operation this charger, the user accepts all resulting liability.



#### **What shall i do?**

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$\mathbf{C}$	Package your charger carefully.	
	<b>+</b>	
•	Send parcel to your national distributor.	
	<b>+</b>	
(•	Distributor repairs/replaces the charger.	
	<b>*</b>	_
(•	Shipment back to you usually by COD7cash on delivery), but is suject to your distributers general policy.	_

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Name :				
Street:				
Post Code:				
City:				
Phone:				
Warranty Claim:	□ Yes □ No			
Important: Original Sales Receipt has to be included				
Type of charger:				
Date of Purchase:				
Used Power Supply:				
Output Voltage				

Herewith I appoint LRP electronic or their service agents to repair the enclosed charger. I accept the warranty conditions as mentioned in this instruction manual. Before sending in for repair, check the power supply and connections.

Date & Signature:

of the Power Supply:

(necessary, otherwise we cannot repair this product)



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