Instructions

GB

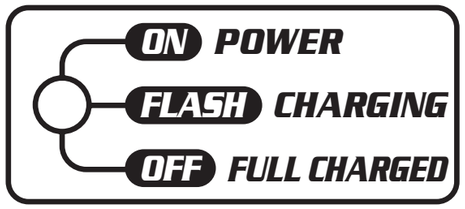
NiMH

Nickel - Metal - Hydrid

DIGITAL CHARGER

(No. 41070)

Dear Customer,
thank you for purchasing this LRP product. Please read these instructions carefully in order to gain maximum performance from your NiMH-CHARGER or your NiMH or NiCd batteries.



1 Connection

1. 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.

2. Connect a NiMH or NiCd 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 NiMH-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
3. 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 NiMH-CHARGER's LED might flash in a irregular way in the stand by mode.
- As soon as a NiMH or NiCd battery is connected, NiMH-CHARGER's LED will light up in the proper way.

3 Safety Instructions

- Don't bring the NiMH-CHARGER in touch with water.
- Always observe the charging process.
- Disconnect the power supply and NiCd battery from the NiMH-CHARGER when the charging process is finished. Don't leave the charger connected to the power supply when not observed.
- Charge only NiMH or NiCd batteries suitable for quick charge. Other battery types might get destroyed by a quick charge.
- The NiMH or NiCd battery should be at room temperature before being charged.
- Only charge NiMH or 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.

4 Internal Overload Protection

- In case of being continuously over loaded, the NiMH-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.

6 Charging 6-8 cells

- The NiMH or NiCad battery should be cooled down to room temperature before being charged.
- It does not matter if the NiMH or NiCd battery is partly charged already when connected to the NiMH-CHARGER. Only the LED might be misled a little in the beginning. Under all circumstances the NiMH-CHARGER realizes when the NiMH or 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 NiMH or NiCd battery is nearly charged, when the LED switches off only for a very short time.

7 Charging a Completely Discharged

- The LED will flash extremely fast after pushing the Start/Stop button when you connected a completely discharged NiMH or NiCd 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 NiMH-CHARGER switches automatically to the quick 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 NiMH-CHARGER could be misled by the transmitter electronic.
- Therefor connect transmitter batteries always direct to the NiMH-CHARGER.

9 Delta Peak Auto Cut System

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

10 Trickle Charge

- When the battery is fully charged (LED is off) the NiMH-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.

11 Interrupting the Quick Charge

- This can be done by simply pushing the start/stop button or by disconnecting the battery from the NiMH-Charger. The LED will light up continuously to indicate stand by mode. The charging process is restarted be reconnecting the NiMH or NiCd battery again.

12 Interrupting the 12V-Supply while a battery is connected

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

13 Charge Stop

- After disconnecting the NiMH or NiCd battery from the NiMH-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.

14 Wrong Connection

- Short circuit at the NiMH or NiCd battery connector:
  LED flashes rapidly.
- Wrong polarity at the NiMH or 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 NiMH or NiCd battery is connected, the internal fuse might react. The wires will get very hot, the NiMH-CHARGER will be abused heavily. Avoid these wrong connections!

15 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.

16 Battery Maintenance

- Follow the instructions of the battery manufacturer.
- For best results please read yellow aditional NiMH-Infosheet carefully.
- For best results we recommend to discharge the NiCd-battery completely after use with a car head lamp or a suitable discharger.

17 Technical Data

Suitable for:	6 cells NiCd	7 cells NiCd	8 cells NiCd
Battery Voltage	7,2 V	8,4 V	9,6 V
Batt. Capacity	1200-4600 mAh	1200-4600 mAh	500-3600 mAh
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

18 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 worn 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.

19 What shall i do?

- Package your charger carefully.
- Send parcel to your national distributor.
- Distributor repairs/replaces the charger.
- Shipment back to you usually by COD7cash on delivery), but is suject to your distributers general policy.

20 In case of repair or warranty claims, please fill out and send

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
of the Power Supply: _____

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: _____
(necessary, otherwise we cannot repair this product)

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