

# LECTRON PRO

Common Sense RC • P.O. Box 3546, Chatsworth, CA 91313 • [www.CommonSenseRC.com](http://www.CommonSenseRC.com)  
Toll-Free Phone: 866-405-8811 • International Callers: 818-718-1893 • Fax: 818-718-6742

## **BASIC NICKEL-METAL HYDRIDE (NiMH) BATTERY GUIDELINES**

Dear customer,

If you are unclear about any of the information presented here, please contact us PRIOR to charging or discharging these batteries.

**THIS BATTERY MUST BE CHARGED BEFORE USE.**

**NEVER LEAVE BATTERIES UNATTENDED WHILE CHARGING.**

**NEVER CHARGE BATTERIES ON OR NEAR FLAMMABLE MATERIALS.**

**CHILDREN UNDER THE AGE OF 14 SHOULD NOT CHARGE BATTERIES OR OPERATE BATTERY CHARGERS WITHOUT ADULT SUPERVISION.**

**PLEASE NOTE** – This is a Nickel-Metal Hydride (NiMH) battery. This battery must be charged using NiMH specific voltage settings. Attempting to charge it using Lipo, LiFe, or NiCad settings will result in damage to the battery and potential fire.

Please take some time and follow these steps in order to assure that you have the best possible experience with your Lectron Pro NiMH battery pack. Failure to follow these steps will void your Warranty.

- 1) Read these instructions in their entirety before using this product.
- 2) Inspect the pack for any obvious damage to the wiring or cells. Contact us if the pack is damaged, even slightly.
- 3) Check the voltage of the battery pack prior to charging. The total voltage should be approximately 1.3V per cell (7.8V for a 6-cell, 9.1V for a 7-cell). Variances as much as 1V higher or lower are normal. If you are not clear on how to do this, check out our website's Product Instructions page at [www.CommonSenseRC.com](http://www.CommonSenseRC.com), or call us at 866-405-8811. If the battery pack is not within these tolerances, please contact us, and we will exchange the pack for a new one. Taking the time to do this will save everyone some hassle in the unlikely event that you have a pack that's defective from the start.
- 4) Register your battery pack with Common Sense RC by using the Battery Registration tool on our website. It's found on the Product Instructions page at [www.CommonSenseRC.com](http://www.CommonSenseRC.com).
- 5) If necessary, solder a connector to the output leads of the pack (see warnings below).
- 6) Charge the battery pack using a charger designed specifically for NiMH batteries. You must select the charge rate current that does not exceed 1C (one times the capacity of the battery). A higher setting may damage to your battery pack and create a possible fire hazard. The following chart of examples is calculated at 1x capacity of pack. Generally speaking, charging at even lower amperage rates will extend battery life.
  - 800 mAh: Charge at or below 0.8 Amps
  - 1500 mAh: Charge at or below 1.5 Amps
  - 6000 mAh: Charge at or below 6.0 Amps
- 7) It is normal for NiMH batteries to become slightly warm to the touch during charging. However, NiMH batteries should not be allowed to exceed 110 degrees F (43 degrees C) during charging. If the battery reaches this temperature, discontinue charging immediately, disconnect the battery from the charger and allow the battery to cool. Once the pack has cooled down to room temperature, try charging again at a lower amperage rate.
- 8) Once your charger indicates charging is complete, check the voltage of your battery. The voltage should be approximately 1.4V to 1.5V per cell (8.4-9V for a 6-cell, 9.8-10.5V for a 7-cell).
- 9) Go run the pack! Enjoy it, and if you like it, tell your friends!

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- 10) Once your vehicle starts to lose power, disconnect the battery from your vehicle. Continuing to run your battery until your vehicle can barely move will cause long-term damage to your battery. Allow the battery to cool down before recharging, and look over the pack to make sure it hasn't been physically damaged, particularly if you've just crashed!
- 11) Charge the pack.
- 12) Repeat steps 9-11 until you've had as much fun as you can stand.

#### **LECTRON PRO NICKEL-METAL HYDRIDE BATTERY SAFETY WARNINGS:**

By purchasing this battery, the buyer assumes all risks associated with nickel-metal hydride batteries. We assume no liability for failure to comply with these warnings and safety guidelines.

- Nickel-metal hydride batteries are volatile and can be very dangerous if mishandled, stored, charged or discharged improperly. Failure to read and follow these instructions may result in fire, personal injury, and damage to property.
- Store below 80°F and above 40°F whenever possible (not in direct sunlight). Never store or charge a battery pack inside your car in extreme temperatures (100° F and above), since extreme temperature could cause fire. Use caution to avoid puncture of the cells. Puncture of cells may cause fire.
- Do not attempt to solder connectors to batteries unless you have sufficient soldering experience. Wire lead shorts can cause fire. If you accidentally short the wires, the battery must be placed in a safe area away from any flammable materials for observation for approximately 15 minutes. Check for any signs of continued heat from the battery pack, such as smoke or a burning smell. A battery may possibly catch fire after a short time. Additionally, if a short occurs and contact is made with metal (such as rings on your hand), severe injuries may occur due to the conductivity of electric current. If, for any reason, you need to cut the terminal wires, it will be necessary to cut each wire separately, ensuring the wires do not touch each other, or a short may occur, potentially causing a fire. To solder a connector, remove any protective insulation on the red wire and solder to the positive terminal of a connector, then remove any protective insulation on the black wire and solder to the negative terminal of the connector.
- Do not charge battery packs in series or parallel unless you are using an approved parallel charging/balancing adapter, such as our Common Sense RC Paraboard. Otherwise, you must charge each battery pack individually. Failure to do so may result in incorrect battery recognition and charging functions. Overcharging may occur and fire may be the result.
- Do not discharge battery to a level below 1V per cell under load. Deep discharge below 1V per cell can dramatically deteriorate battery performance and will likely cause the battery pack to become unusable.
- Batteries that lose 20% of their capacity must be removed from service and disposed of properly. For example, a 2000mah battery that behaves as if it is only a 1600mah battery is unsuitable for service. Dispose of it using the instructions below.

#### **NICKEL-METAL HYDRIDE BATTERY DISPOSAL INSTRUCTIONS:**

- NiMH batteries contain recyclable materials. Please contact your local electronic waste recycler for information on how to best dispose of your NiMH batteries once they are no longer functional.

#### **COMMON SENSE RC LIMITED WARRANTY:**

This Nickel-Metal Hydride battery pack is guaranteed, under warranty, against defects in materials and workmanship for one (1) year from the date of purchase.

- In order to be eligible for warranty exchange, the user must follow the initial setup instructions above, and the pack must be registered with Common Sense RC.
- This warranty does not cover physical damage to the battery pack as the result of a crash, hard landing, improper mounting or any deformity caused by the user.
- This warranty does not cover internal damage to the battery pack due to overcharging, deep discharging, or excessive charge/discharge current.
- As a courtesy to our customers, we will also exchange any physically damaged battery pack for a new one at 85% of the original purchase price.
- For all warranty claims and service, contact Common Sense RC to obtain a Return Merchandise Authorization (RMA) number before returning any product.