



# Nitro Field Charger



## Introduction

Thank you for purchasing the DC Nitro Field Charger peak detection charger. Charging 1-cell ni-starters, 6- to 8-cell, and 4- to 5-cell Ni-Cd and Ni-MH battery packs safely and efficiently has never been so easy. Just select a charge rate of 1, 2 or 4 amps and press the appropriate start button. The charger will automatically stop fast charging when it senses the pack is fully charged and enters a safe trickle charge mode to equalize cell voltage and maintain full charge.

The beeper volume can be adjusted to suit the charging environment. Simply use a small flat-bladed screwdriver to adjust the alert volume from the front of the charger.

## Features

- DC input power
- Ni-Cd and Ni-MH compatible
- Charge rates of 1, 2, or 4 amps (maximum of 6 amps total)
- Heavy-duty alligator clips
- Advanced trickle charge
- LED and beeper indicate when charge is complete
- Charges 4- to 8-cell Ni-Cd or Ni-MH battery packs
- Charges single-cell ni-starters
- Receiver pack charge lead, Tamiya and BEC connector adapter included
- Limited 5-year warranty

## Supplying Power to the Charger

The Nitro Field Charger is powered using the provided alligator clips connecting the charger to a 12-volt DC power source, such as a 12V hobby battery (HAN102), a 12-volt power supply or an automobile battery.

Connect the red (positive) end of the alligator clips to the red terminal of the DC power source and the black (negative) end of the alligator clips to the black terminal of the DC power source. If you choose to power the charger with an automobile battery, never do so with the automobile running!

## Charging

### Charging 6- & 8-Cell Ni-Cd or Ni-MH Battery Packs

1. When power is initially applied, the charger will beep and the LED will flash once.
2. Connect the appropriate charge lead to the corresponding charge jack with respect to polarity.
3. Connect the battery pack to the charger, and the charger will beep again. The LED will repeatedly blink until you begin the charging process.
4. Select either a 1, 2, or 4 amp charge rate based on the battery's capacity rating. See "Charge Times" chart on Page 3.
5. Push the **Start** button to begin the charging process. The LED will be solid red during the charging process.
6. Once the battery has peaked, the LED will flash, and the beeper will sound for 30 seconds. If the battery is left connected after 30 seconds, the LED will continue to flash, and the beeper will sound approximately every 90 seconds.

When the battery has peaked, the Nitro Field Charger will automatically transition to Advanced Trickle Charge.

### Charging 4- & 5-Cell Ni-Cd or Ni-MH Receiver Packs

1. When power is initially applied, the charger will beep and the LED will flash once.

2. Connect the battery pack to the charger using the included Rx charge adapter, and the charger will beep again. The LED will repeatedly blink until you begin the charging process.
3. Select a charge rate of either 1 or 2 amps, depending on the receiver pack you are going to charge. We recommend that you charge 600mAh or lower capacity receiver packs at 1 amp, while you may charge higher capacity packs at 2 amps.
4. Push the **Start** button to begin the charging process. The LED will be solid red during the charging process.
5. Once the battery has peaked, the LED will flash, and the beeper will sound for 30 seconds. If the battery is left connected after 30 seconds, the LED will continue to flash, and the beeper will sound approximately every 90 seconds.

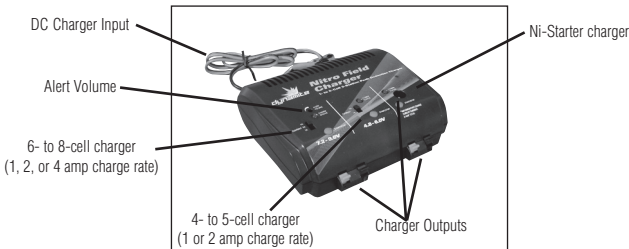
When the battery has peaked, the Nitro Field Charger will automatically transition to Advanced Trickle Charge.

### Charging 1-Cell Ni-Cd or Ni-MH Ni-Starters

1. When power is initially applied, the charger will beep and the LED will flash once.
2. Connect the ni-starter pack to the charger, and the charger will beep again. The LED will repeatedly blink until you begin the charging process.
3. Push the **Start** button to begin the charging process. The LED will be solid red during the charging process.
4. Once the ni-starter has peaked, the LED will flash, and the beeper will sound for 30 seconds. If the ni-starter is left connected after 30 seconds, the LED will continue to flash, and the beeper will sound approximately every 90 seconds.

When the ni-starter has peaked, the Nitro Field Charger will automatically transition to Advanced Trickle Charge.

**Note:** The charger can charge all three packs simultaneously, provided you stay under or at the maximum capacity of the charger's 6-amp limit.



## Advanced Trickle Charge

Once the battery is fully charged, the charger will immediately enter a pulse trickle charge. This pulse trickle charge will condition the battery, extend its life and make certain it is fully charged when you are ready to use it. You will know the charger has entered Advanced Trickle Charge when the charger beeps and the LED continuously flashes.

## Charge Times

The following are approximate charge times necessary for a battery that is fully discharged. Please note these are estimated times only.

### 1 amp

600mAh Tx/Rx Pack: 36 minutes

700mAh Tx/Rx Pack: 42 minutes

1000mAh Tx/Rx Pack: 60 minutes

### 2 amp

1000mAh Tx/Rx Pack: 30 minutes

### 4 amp

1500mAh 6-Cell Sub-C Car Pack: 23 minutes

2000mAh 6-Cell Sub-C Car Pack: 30 minutes

3000mAh 6-Cell Sub-C Car Pack: 45 minutes

3300mAh 6-cell Sub-C Car Pack: 49 minutes

3800mAh 6-cell Sub-C Car Pack: 57 minutes

## Safety Precautions

- Never leave the battery and charger unattended during use.
- Always allow the charger to cool between charges.
- Never connect the charger to an automobile 12V battery while the vehicle is running.
- Carefully observe correct polarities at all times.
- Do not let children charge battery packs without adult supervision.
- Keep away from liquid, flammable chemicals and moisture.

## Warranty Period

Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the "Product") will be free from defects in materials and workmanship for a period of 5 years from the date of purchase by the Purchaser.

## Limited Warranty

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

## Damage Limits

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

## Safety Precautions

This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the Product or other property. This Product is not intended for use by children without direct adult supervision. The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

## Questions, Assistance, and Repairs

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to [productsupport@horizonhobby.com](mailto:productsupport@horizonhobby.com), or call 877.504.0233 toll free to speak to a service technician.

## Inspection or Repairs

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as **Horizon is not responsible for merchandise until it arrives and is accepted at our facility.** A Service Repair Request is available at [www.horizonhobby.com](http://www.horizonhobby.com) on the "Support" tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

## Warranty Inspection and Repairs

**To receive warranty service, you must include your original sales receipt** verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

## Non-Warranty Repairs

**Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost.** By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. **Please note: non-warranty repair is only available on electronics and model engines.**

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center  
4105 Fieldstone Road  
Champaign, Illinois 61822

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support  
4105 Fieldstone Road  
Champaign, Illinois 61822

**Please call 877-504-0233 with any questions or concerns regarding this product or warranty.**