PROPHET PLUS™ LCD

AC/DC-Powered Peak Prediction Charger
for 4- to 7-cell Ni-Cd and Ni-MH Battery packs

INSTRUCTION MANUAL

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www.dynamiterc.com

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NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit www.horizonhobby.com/ProdInfo/Files/dyn4033-manual.pdf.

MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this charger:

**NOTICE:** Procedures, which if not properly followed, create a possibility of physical property damage AND a small or null possibility of injury.

**CAUTION:** Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

**WARNING:** Procedures, which if not properly followed, create the likely probability of physical property damage AND may lead to a dangerous condition or cause death or serious injury to the user, OR procedures, which if not followed, create the high probability of superficial injury.

**WARNING**

Read the ENTIRE instruction manual to become familiar with the features of the charger before operating. Never leave the charger unattended during use. Failure to operate the charger can cause damage to the charger, battery, personal property or cause serious injury.

SAFETY WARNINGS AND PRECAUTIONS

Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.

- Read all safety precautions and literature prior to use of this product.
- Never leave the battery and charger unattended during use.
- Never attempt to dismantle the charger.
- Never attach your charger to both an AC and DC power source at the same time.
- Never connect the charger to an automobile 12V battery while the vehicle is running.
- Never reverse the positive and negative terminals. Wrong connection will damage the battery and may cause damage to the charger.
- Never allow minors to charge battery packs without adult supervision.
- Never drop charger or batteries.
- Never attempt to charge dead or damaged batteries.
- Never attempt to charge a battery pack containing different types of batteries.
- Never charge a battery if the cable has been pinched or shorted.
- Never allow batteries or battery packs to come into contact with moisture at any time.
- Never charge batteries in extremely hot or cold places (recommended between 50–80° F) or place in direct sunlight.
- Never connect the input jack (DC input) to AC power.
- Always use only rechargeable batteries. This charger cannot charge batteries such as “heavy duty,” “Alkaline battery,” or “Mercury battery.”
- Always connect the positive red lead (+) and negative black lead (-) terminals of the battery to the charger terminals correctly.
- Always disconnect the battery after charging, and let the charger cool between charges.
- Always inspect the battery before charging.
- Always terminate all processes and contact Horizon Hobby if the product malfunctions.
- Always keep batteries and charger away from any material that could be affected by heat (such as ceramic and tile), as they can get hot.
- Always monitor the area, use a fire alarm and have a fire extinguisher available at all times.
- Always ensure program settings are correct to prevent battery damage or fire.
- Always make sure you know the specifications of the battery to be charged or discharged to ensure its requirements of this charger. If the program is set up incorrectly, the battery and charger may be damaged. Improper settings can cause the battery to become overcharged potentially leading to fire or explosion.
- Always connect the charge cable to the charger first, then connect the battery to avoid short circuit between the charge leads. Reverse the sequence when disconnecting.
- Never connect more than one battery pack to this charger at a time.
- Always ensure DC input is 12V.
- Always constantly monitor the temperature of the battery pack while charging.
- Always end the charging process if the charger or battery becomes hot to the touch or starts to change form (swell) during the charge process.

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. This 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.
### FEATURES

1. 110V AC power cord
2. 12V DC power cord with alligator clips
3. Adjustable charge rates from 100mA–5000mA (5 amps)
4. LED and beeper indicate when charge is complete
5. LCD display shows charge capacity, charge current and battery voltage
6. Start/Stop fast charge button
7. Input and output fuse protection
8. Tamiya-style output connector
9. Includes receiver battery adapter

**Additional Features**

- Limited 3-year warranty
- Advanced peak prediction circuitry
- Auto trickle charge (150mA)

**CAUTION:** Attempting to charge batteries different than those specified in this manual can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

### CONNECTING THE INPUT POWER SOURCE

This charger can be powered by connecting it to a 12V DC power source, such as a 12V sealed battery (HAN102) or an automobile battery.

**CAUTION:** If you choose to power your charger with an automobile battery, never do so with the automobile running as fluctuation in power can cause product malfunction and possibly injury.

**CAUTION:** Never connect the AC and DC input cords to an active power source at the same time. This will void the warranty, cause product damage and possibly injure the user.

**AC Power**

To power the Prophet Plus Charger, connect the AC power cord into a standard 110V wall outlet.

**NOTICE:** Always consult 12V battery collateral materials or Horizon Hobby before using with sources other than standard AC wall outlet.

### DC Power

If you power the charger by using DC power, 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.

**WARNING:** Always make sure that you follow proper polarities at all times or electrical shock will occur.

### Fail-Safe

If the power source has been interrupted or drops below a usable voltage level, the Prophet Plus™ automatically goes into a Fail-Safe mode to let you know that the battery has not been fully charged. In this mode, the charge status LED flashes “RED” and the beeper sounds, indicating the loss of proper source power. To reset, disconnect the battery being charged and reconnect a fully charged power source of 12–14 volts DC or AC power.

### Charging 6/7-Cell Ni-Cd or Ni-MH Car Packs

1. When power is supplied to the charger, the LCD will enter the self test mode, counting from “1111” to “9999” then the charger will beep indicating it is ready for operation.
2. Connect the battery to the charge lead. The charger will beep and the LED will flash until you begin the fast charging process.
3. Push the Start button to begin the charge process.
4. Move the LCD selector switch to the “ammeter” position.
5. Adjust the current rate to match the battery type.

**Note:** Charge sport packs and older batteries at lower rates (below 3 amps). Higher quality (matched) battery packs can be charged at higher rates to shorten charge times. (See figure 1)

Once you have begun to charge the battery pack, the beeper will sound once and the LCD will display “Fast.” The charge status LED will go from flashing to solid red.

6. When the battery pack has peaked, the charger will repeatedly beep, the LED will flash red and the charger will automatically transition to trickle charge. The LCD will display “Trickle.” (See figure 2)

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

1. When power is supplied to the charger, the LCD will enter the self test mode, counting from “1111” to “9999” then the charger will beep indicating it is ready for operation.
2. Connect the receiver battery adapter to the charger. For some batteries, you may need to use the included charge lead adapter. (See figure 3)
3. Connect the receiver battery to the charge lead. The LED will flash until you begin the fast charging process.

**Figure 1**

**Figure 2**

**Figure 3**
4. Push the Start button to begin the charge process. Move the LCD selector switch to the ammeter position. Select a charge rate below 2 amps, depending on what receiver pack you are going to charge. Charge 600mAh receiver packs at 1 amp or less, while higher capacity packs, such as 1000mAh, can be charged at 2 amps.

5. Once you have begun to charge the battery pack, the charge status LED will go from flashing to solid red and the LCD will display “fast.”

6. When the battery is fully charged, the charger will beep repeatedly, the LED will flash and the LCD will display “trickle” and drop to a safe 150mAh trickle charge current rate.

⚠️ CAUTION: Never re-peak a warm battery as the overcharging can damage the products and possibly the user.

⚠️ WARNING: If at any time during the charge process the battery pack(s) become hot (over 140 °F), unplug the battery immediately and discontinue the charge process.

### TRICKLE CHARGE

Once your batteries are fully charged, the charger will automatically enter into trickle charge. This feature allows your batteries to stay fully charged until you are ready to use them again. Trickle charging also helps "equalize" the battery voltage of the individual cells within a pack. This raises the total battery pack voltage (power) and increases capacity (runtime). You will know that your charger has entered trickle charge when you hear the charger beep and the LED continuously flashes.

### VOLTMETER

The voltmeter function allows you to monitor the charge voltage of the battery to determine the battery’s charge state. The higher the battery’s average voltage, the more power it can deliver. This is also a good indicator of how well the battery cells are matched, which translates to longer runtimes. (See figure 4)

#### mAh

The mAh (milli-Amp/hour) setting displays the amount of capacity the battery pack has accepted during fast charge. This can help determine how long the battery will operate your vehicle and reveal any problems with the battery pack. A fully discharged battery pack should accept its rated capacity in mAh. Partially charged batteries and battery packs with damaged cells or cells that have developed memory will result in a lower mAh rating. (See figure 5)

### FUSES

This charger is protected by a 7.5 Amp spade fuse and a 1 Amp glass fuse. If you need to replace a fuse, your local hobby retailer should be able to supply one. You can also find replacement fuses at automotive stores. Always replace your fuse with a new fuse of the same rating.

NOTICE: Always replace your fuses with the same fuse type/model as supplied by the manufacturer.
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 or call 877.504.0233 toll free to speak to a Product Support representative.

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 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 1/2 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 cashier’s 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.

United States

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

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822
USA

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

Horizon Product Support
4105 Fieldstone Road
Champaign, Illinois 61822
USA

Please call 877-504-0233 or e-mail us at productsupport@horizonhobby.com with any questions or concerns regarding this product or warranty.