WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

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 Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in this manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

The Li-Po Low-Voltage Warning Module monitors a Li-Po battery pack’s voltage and emits an audible tone when the voltage drops below a safe level. This makes the unit very useful with electronic speed controls that do not have an internal Li-Po low-voltage cutoff circuit and also for applications in which a Li-Po battery is used to power a nitro starter box.

CAUTION: This unit is not a cutoff device. It is only a warning device to alert you that the battery’s voltage has dropped below a safe level.

NOTICE: Always disconnect the battery from the Low-Voltage Warning Module when you have finished operating your vehicle or using your starter box.

Features:
1. Suitable for use with 2–4S Li-Po or Li-Ion receiver packs.
2. Adjustable low-voltage warning circuit.

Installation:

For nitro starter boxes: The Low-Voltage Warning Module is best positioned inside the box at a location that is clear of any moving parts such as starter wheels, drive belts or gear reduction units. Use double-sided tape in order to mount the module. Power Lead Connection: It is easiest to connect the Low-Voltage Warning Module to your starter box’s switch harness. The Low-Voltage Warning Module can also connect to the battery. If using two 2S packs in series, always connect the Low-Voltage Warning Module to the end of the Y-harness at the starter box’s switch harness connection point.

For RC vehicles: The Low-Voltage Warning Module is best positioned near the ESC, as its main power leads (red and black wires) connect easiest to the ESC’s battery power wire tabs (if ESC has solder tabs). The Low-Voltage Warning Module can also connect to battery, battery connector or battery’s power wires. Based on where your Low-Voltage Warning Module will connect, select a position where the unit can be mounted in the vehicle. Use double-sided tape in order to mount the module. Power Lead Connection: Measure and cut the Low-Voltage Warning Module’s red and black power leads to the required length for where it is to be mounted. Strip and tin the ends of the power leads and solder to your ESC’s RED (positive) and BLACK (negative) solder tabs—RED power lead to RED (positive) tab; BLACK power lead to BLACK (negative) tab. When soldering leads to the tabs, make sure you do not short any of the tabs to each other or your electronics will be damaged! When connecting the Low-Voltage Warning Module’s power leads to a battery, its connector, or battery wires, be sure to insulate solder joints and exposed wiring to avoid short-circuits.
Setup Instructions:
When the module is powered the LED will flash “green” on for .1 second and off for .9 second. This is the safe operating mode that verifies the battery pack is sufficiently charged.
To enter the setup mode press and hold the “set” button. The LED will turn off and after another 2 seconds will come back on. Release the “set” button. You have now successfully entered the “setup mode”.
By pressing the “set” button you can now choose between 6 different “Low-Voltage” alert modes. Following is a description of each and the LED color that designates them.
1. Solid red LED: Suitable for 2S packs with higher loading (5.5V).
2. Flashing red LED: Suitable for 2S packs with normal loading (6.0V).
3. Red/green LEDs flashing simultaneously: Suitable for 3S packs with higher loading (8.3V).
4. Red/green LEDs flashing alternately: Suitable for 3S packs with normal loading (9.0V).
5. Flashing green LED: Suitable for 4S packs with higher loading (11.0V).
6. Solid green LED: Suitable for 4S packs with normal loading (12.0V).
After 10 seconds without pressing the set button the regulator will leave setup mode and enter “Operation Mode” automatically saving the last setup mode.
Operation Mode LED functions:
Flashing green LED: Normal safe operating mode that verifies the battery pack is sufficiently charged.
Flashing red LED/Audible alert buzzer: Battery pack has reached the “Low-voltage” setup value. Disconnect and recharge battery.

NOTICE: Always disconnect the battery from the Low Voltage Warning Module when you have finished operating your vehicle or using your starter box. The Low Voltage Warning Module will continue to draw current from the battery even with the switch in the OFF position. Over time the battery will completely discharge causing possible damage.

WARRANTY AND REPAIR POLICY

Warranty Period
Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the “Product”) will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

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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).
WARRANTY SERVICES
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. You may also find information on our website at www.horizonhobby.com.

Inspection or Repairs
If this Product needs to be inspected or repaired, please use the Horizon Online Repair Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. 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. An Online Repair Request is available at www.horizonhobby.com under the Repairs tab. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for repair. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.
Notice: Do not ship batteries to Horizon. If you have any issue with a battery, please contact the appropriate Horizon Product Support office.

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.

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 hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for inspection or repair, you are agreeing to Horizon’s Terms and Conditions found on our website under the Repairs tab.

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<td>4105 Fieldstone Rd Champaign, Illinois, 61822 USA</td>
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<td>Horizon Hobby Limited</td>
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<td>+44 (0) 1279 641 097 <a href="mailto:sales@horizonhobby.co.uk">sales@horizonhobby.co.uk</a></td>
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Declaración de Conformidad
(in accordance with ISO/IEC 17050-1)

No. HH2011030702

Producto(s):  DYN LiPo Warning Module
Número de Producto(s):  DYN4073

El objeto de declaración descrito arriba está en conformidad con los requisitos de las especificaciones listadas a continuación, siguiendo las provisiones de la Directiva de EMC 2004/108/EC y la Directiva de LVD 2006/95/EC:

EN 61000-6-1:2007  Limites para emisiones de corriente armónica
EN 61000-6-3:2007  Limitación de sistemas de suministro de corriente

Firmado por y en nombre de:
Horizon Hobby, Inc.
Champaign, IL USA
7 de marzo de 2011

Steven A. Hall
Vice Presidente
Operaciones Internacionales y Gestión de Riesgos
Horizon Hobby, Inc.

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