



HIGH-PERFORMANCE

LITHIUM POLYMER (LIPO) INSTRUCTIONS

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

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 and click on the support tab for this product.

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no 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 probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

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** 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 degrees F) or place in direct sunlight.
- **Always** use LiPo batteries.
- **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 it meets the requirements of this charger.
- **Never** connect more than one battery pack to this charger at a time.
- **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.

CHARGING INSTRUCTIONS:

1. Connect the charger to the wall outlet—notice the LED will illuminate green.
2. Connect the battery to the charger—the LED will change to red.
3. During the last 5 minutes of charging the LED will alternate red and green.
4. When charging is complete the LED will be solid green.
5. Disconnect the battery from the charger and unplug the charger from the wall outlet.



WARNING

A charger is not a toy. To ensure proper function and to avoid risk of injury and damage, read and follow all instructions before operating the product. Lithium Polymer (LiPo) batteries are significantly more volatile than other rechargeable batteries used in RC applications. Failure to read and follow these instructions and safety precautions may result in fire, personal injury and damage to property. Losi, Horizon Hobby, Inc., its retailers, and any other representatives, assume absolutely no liability for use of this product or failure to comply with these instructions and precautions.

NOTICE: If you are not prepared to accept complete liability for the purchase and/or use of this product, you are advised to return it in new and unused condition to the place of purchase immediately.



CAUTION: This product may ignite under certain conditions. Please read all safety precautions before use. Please see page 4 to contact the appropriate Horizon customer support office with any questions or concerns regarding this product or warranty.

BEFORE FIRST USE:

- Read all safety precautions prior to use. If you have any questions please contact Horizon customer support.
- Before the first charge, inspect the battery for any damage to the case or covering, wires, or connectors. Also look for any signs of swelling.

NOTICE: If any damage or irregularities are noted, please place the battery in a safe area and contact Horizon customer support.



WARNING: All instructions and warnings must be followed exactly. Mishandling of LiPo batteries can result in fire. By handling, charging or using the included LiPo battery you assume all risks associated with lithium batteries.

Charging Process Warnings and Safety Precautions:

- Never charge or use a LiPo battery that shows any damage or disfigurement of any kind. Swelling is a sign of internal damage. Any breach of protective cover, wiring or plugs is also reason to discontinue use (See Disposal Instructions).
- **Never leave battery and charger unattended while in use. Improper charging or discharging of LiPo batteries could result in fire or explosion.**
- **Never allow children to charge LiPo battery packs.**
- Never charge near moisture, extreme temperatures, flammable or combustible materials.
- Never charge the battery while it is installed in a vehicle, aircraft, or other such equipment.
- Never attempt to charge a battery that is damaged or which has individual cell voltages below 3.0V.
- Never charge the battery at more than 1C (one times the capacity of the battery, unless otherwise noted). Multiply the battery mAh rating by 0.001 to determine correct charge rate. For example, a 5000mAh battery should be charged at 5A (5000 x 0.0001 = 5).
- **Always use specific Lithium Polymer charger only. Do not use a NiCd or NiMH charger**—failure to do so may cause a fire, which may result in personal injury and/or property damage.
- **Always inspect batteries before charging.**
- Always let the battery cool down to ambient temperature before charging.
- Always verify the polarity of the battery to the charger is correct before charging.
- **Always constantly monitor** the temperature of the battery pack while charging. If the battery becomes hot to the touch discontinue charging immediately. Disconnect the battery from the charger and observe it in a safe place for at least 15 minutes.
- Always be familiar with the operation of your charger prior to beginning the charge process.
- Always secure the battery inside a flame-resistant LiPo sack, such as the Xcelorin LiPo Protection Pouch Large (LOSB9701) or Small (LOSB9700), prior to charging.

- Always ensure that the proper cell count or voltage is selected on your charger for this battery. Failure to properly set the cell count or voltage could result in fire or explosion of this battery.
- For optimal performance and extended life it is recommended that you balance your battery each time you charge it. An external balancer can be used before each charge or preferably you may use a balance charger, such as the Xcelorin™ MultiPro™ Intelligent Balance Charger (LOSB9606), which balances the cells while it charges.

USAGE GUIDELINES, WARNINGS AND OTHER SAFETY PRECAUTIONS:

LiPo batteries may explode if damaged or if disposed of improperly.

If at any time you see a battery starting to balloon or swell, discontinue charging or using immediately and dispose of properly following the instructions below.

Lithium batteries can still ignite after at least 45 minutes due to a delayed chemical reaction. If battery is damaged or overheats, observe the battery in a safe area outside of any building or vehicle and away from combustible material.

Do not allow children to use LiPo batteries without adult supervision.

Shorting the wire leads can cause fire. If you accidentally short the wires, the battery must be placed in a safe area for observation for at least 15 minutes.

If the battery will not be used for more than one week the battery should be charged to a level of 50% charged or about 3.8-3.9V/cell. The Xcelorin MultiPro Intelligent Balance Charger (LOSB9606) has a built-in storage charge function to make this process simple.



WARNING: Any of the following may cause the battery to be damaged resulting in battery swelling, leaking, or fire:

- Bending, folding or impacting of battery
- Damaging the edge seal of the battery
- Disassembling or altering the battery

CRASH DAMAGE:



WARNING: If there are signs of smoke or overheating, DO NOT go near the battery or equipment until it has been observed from a safe distance for at least 15 minutes. Once it is safe, remove the battery and check for damage. Dispose of damaged batteries properly following the instructions below.

SWOLLEN BATTERIES:



WARNING: Immediately stop using or charging. If the battery is not warm to the touch, move it to an open safe area and observe it for at least 15 minutes. Be VERY CAREFUL when moving the batteries. Do NOT put ANY pressure on the batteries or covering as this may cause fire. Dispose of damaged batteries properly following the instructions below.

ADDITIONAL INFORMATION & GUIDELINES:

Battery temperature is the best indicator for safety. Follow the guidelines below:

Temperature Range

Charging: 32° to 113° F

Discharging: 32° to 140° F

Storage: 40° to 80° F

Transport: 20° to 150° F (temporarily)



CAUTION: Do not change plugs as the process is dangerous and any error can cause immediate fire. Improperly installed plugs can also cause fire due to shorts, reverse polarity or other improper handling, which can cause battery damage.



CAUTION: Batteries should be stored in a vented, fire-resistant container. Each pack should be stored in its own LiPo sack, such as the Losi LiPo Protection Pouch Large (LOSB9701) or Small (LOSB9700), within the container. The number of battery packs per container should be extremely limited to avoid chain reactions. Storage temperatures should not fall below 32 degrees Fahrenheit or above 130 degrees Fahrenheit. Damaged batteries must be maintained at less severe temperatures. High temperatures may cause fire even with undamaged batteries.

BATTERY DISPOSAL:

NOTICE: LiPo batteries require special handling for safe disposal. The following are basic instructions for safe disposal. For more detailed safety, disposal and recycling information please go to: www.rbrc.org or www.earth911.org.

BASIC DISPOSAL INSTRUCTIONS

Before discarding any LiPo battery it must be rendered safe. The following steps must be taken to avoid damage or injury to yourself, your property and anyone who comes in contact with the battery.

If the battery is undamaged but no longer useful:

1. Discharge the battery to a maximum of 2.5V per cell using a slow, safe discharge method.
2. Leave battery uncharged and retest after at least 24 hours. Many batteries experience "rebound" and may have more than 2.5V per cell after 24 hours. If the battery is over 2.5V per cell, repeat the procedure until the battery is 2.5V per cell or less.
3. Insulate each wire lead with electrical tape or other appropriate material.
4. Assure that wire leads cannot touch each other by taping them to opposite sides of the battery.
5. Place battery in a sealed plastic bag and place plastic bag in a vented, fire-safe container.
6. Use fire-safe container to deliver battery to a recycling center authorized for lithium polymer batteries. Please note that not all battery-recycling services include LiPo batteries. If no LiPo recycling facility is available in your area, contact your state or local HAZMAT agency for instructions.
7. If the battery or wiring is damaged, please contact your state or local HAZMAT facility for instructions. Batteries must be rendered safe before being transported or recycled. Do NOT transport or ship batteries which have more than 2.5V per cell charged OR that show signs of damage without following the instructions given by authorities. Damaged batteries should be rendered as safe as possible and stored in a vented, fireproof container until recycled.

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.

LIMITED WARRANTY

Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(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 all warranty claims.

(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 Product 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).

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 <http://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 ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashiers 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.

UNITED STATES

(Electronics and engines)
Horizon Service Center
4105 Fieldstone Rd
Champaign, Illinois
61822 USA
productsupport@horizonhobby.com
877-504-0233

(All other products)
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COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

CE DECLARATION OF CONFORMITY

(in accordance with ISO/IEC 17050-1)

No. HH2010053005

Product(s): Losi LiPo Charger

Item Number(s): LOSB9635i

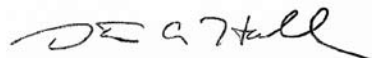
The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European EMC Directive 2004/108/EC:

EN55022	Radio disturbance characteristics
EN 61000-3-2	Limits for harmonic current emissions
EN 61000-3-3	Conducted Emissions, Voltage Flicker
EN55024	Immunity characteristics
EN 60950	Safety

Signed for and on behalf of:

Horizon Hobby, Inc.
Champaign, IL USA
May 30, 2010

Steven A. Hall



Vice President

International Operations and Risk Management
Horizon Hobby, Inc.



INSTRUCTIONS FOR DISPOSAL OF WEEE BY USERS IN THE EUROPEAN UNION

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.