

(DYN4104)

✓	Included Items
	JST_XH Balance adapter
	Banana plug to Tamiya battery connector
	Banana plug to Traxxas® battery connector

The following features are standard on your **Dynamite® 70W Multi-Chemistry AC Battery Charger:** 

- Li-lon/Li-Po/Li-Fe battery cell count of 1 to
- 6 series cells
- Ni-Cd/Ni-MH battery cell count of 1 to 14 cells
- Pb battery voltage of 2, 6 and 12V
- · Built in balance circuit
- Short-circuit, over-current, reverse polarity, low input
- voltage and over-temperature protection • Store and run previous battery profile
- 2x16 backlit, blue LCD
- Color coded, banana jack, power output terminals
- (Red = Positive (+), Black = Common or Negative (-))
- Internal cooling fan with grill cover • Operating temperature range of 0°C to +50°C
- Meets IP33CW, IK07 environmental specs

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 horizonhobby.com and click on the support tab for this product.

#### leaning of Special Language

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

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.

create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

The following specifications are standard on your

- Operating temperature: 0°C to +50°C
- Balance Current Drain: 300mA per cell
- Charging Mode: Peak (Ni-Cd/Ni-MH), CC/CV
- (Li-Po/Li-Ion/Li-Fe/Pb)

property and cause serious injury.

**NOTICE:** Procedures, which if not properly followed,

**WARNING:** Procedures, which if not properly followed,

#### **Specifications**

Dynamite 70W Multi-Chemistry AC Battery Charger:

- AC Input Voltage: 115VAC (60Hz)
- Charge Current: 0.10 to 6.0A (in 0.1 A increments/70W
- Trickle Charge Current: 50 to 200mA

#### **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 This is a sophisticated hobby product. 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. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, Inc. 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 serious injury.

WARNING: Failure to exercise caution while using this product and comply with the following warnings could

Safety Precautions and Warnings

- esult in product malfunction, electrical issues, excessive heat. FIRE, and ultimately injury and property damage.
- Never leave the charger and battery unattended during use.
- Never attempt to charge dead, damaged or wet battery packs
- Never attempt to charge a battery pack containing different types of batteries.
- Never allow children under 14 years of age to charge battery packs.
- Never charge batteries in extremely hot or cold places or place in direct sunlight
- Never charge a battery if the cable has been pinched or shorted.
- Never connect more than one battery pack to this charger at a time.
- Never connect the charger if the power cable has been pinched or shorted.
- · Never attempt to dismantle the charger or use a
- damaged charger Never reverse the positive and negative terminals.
- Always use only rechargeable batteries designed for use with this type of charger.
- Always inspect the battery before charging.

extinguisher available at all times

- Always keep the battery away from any material that could be affected by heat.
- Always monitor the charging area and have a fire
- Always end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.
- 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.
- Always connect the positive red leads (+) and negative black leads (-) correctly.
- Always disconnect the battery after charging, and let the charger cool between charges Always terminate all processes and contact Horizon

Hobby if the product malfunctions. WARNING: Never leave charger unattended, exceed maximum charge rate, charge with non-

approved batteries or charge batteries in the wrong mode. Failure to comply may result in excessive heat, fire and **CAUTION:** Always ensure the battery you are

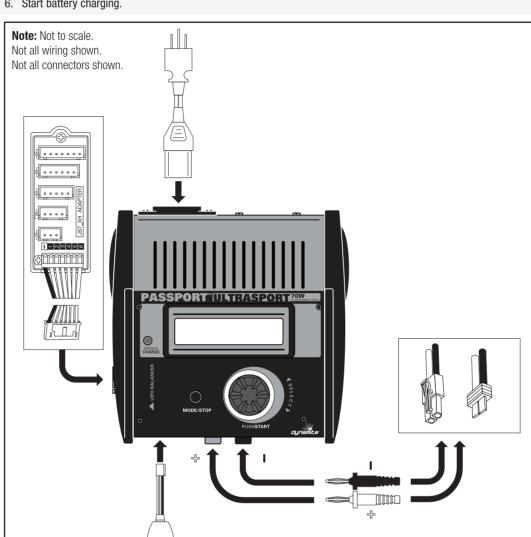
charging meets the specifications of this charger and that the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

### **GETTING STARTED**

**CAUTION:** Always p battery can result. **CAUTION:** Always power on the charger before connecting a battery to the charger, or damage to the charger and the

NOTICE: Always connect cable polarities correctly.

- 1. Attach the AC power cord to the power supply. Make sure the cord plug is fully seated in the socket, then connect the AC power cord to an appropriate power socket.
- Make program selections in the charger for battery charging.
- 4. Connect charger adapters to charger.
- 5. Connect battery to charger adapters (connect main charging connectors before connecting cell-balancing connectors, where used)
- 6. Start battery charging.



# PROGRAMMING GUIDE

Press Mode/Stop button (H) to stop charging or to change between charging mode and the 13

user screens Turn the selector Start dial (G) to move between screens. Press the selector Start dial (G) to start Charging, to move between adjustable values or to change adjustable

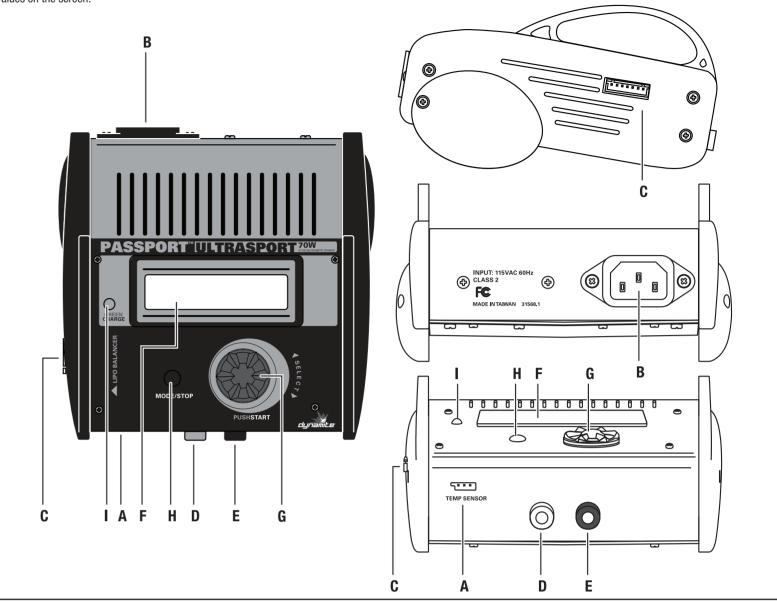
values on the screen.

# Look at the charger to see:

- A. Temperature connection
- B. AC Power Input Connector C. Balance Circuit Adapter/Board Connector
- D. Power Output red (+)
- Power Output black (-)
- G. Selector dial/Start button H. Mode/Stop Button

F. LCD screen

 Charge status LED Indicator



#### **OPERATING YOUR CHARGER**

# **OPERATING INSTRUCTIONS** A. Press the MODE button to change from the main

menu (ready to charge the last selected battery type)

- to the setting menu. B. Turn the selector dial while the main menu is displayed to see all options available for the battery chemistry shown on the screen. Turning the selector dial while in the settings menu displayed options to change charger functionality unrelated to the
- battery type C. Press the START button to make a value on a screen flash, showing that the value can be changed.
- D. Turn the START dial to increase or decrease a value. D. Press START to confirm changes. Press STOP to clear
- settings E. Press and hold the START button for 3 seconds to start the charge process. A screen will show during battery check before a battery status screen shows.

# **USER SETUP MENU**

Turn the START dial in a clockwise direction to see the screens in the following order. Press the Start Dial to make your selection.

Select Battery Type

User Setup Mode Type NiMH Batt

Use this menu to choose the battery chemistry type to charge: Pb (Lead-acid), Ni-MH (Nickel Metal Hydride), Ni-

2. Select Li-Ion/Poly Voltage



3.6 or 3.7V.

3. Adjust Ni-MH Charge Sensitivity

NiMH Sensitivity D.Peak 3mV/Cell

Ni-MH negative delta voltage cutoff/cell. The D.Peak value is adjustable between 0mV/Cell and 15mV/Cell. Generally, 8mV/Cell is a good choice for Ni-MH batteries. When this this value is set too low, the charger will not charge a battery to full capacity.

Nicd Sensitivity D.Peak 5mU/Cell

5. Adjust Max Charge Temperature and change Celsius to Fahrenheit

Batt Temp Cutoff

Use this menu to set a cut-off temperature that can prevent damage to the battery by stopping the charging process if the battery temperature reaches that limit. The charger can be used with an optional battery mounted temperature sensor (connected to the 3-pin sensor port) in order to monitor the temperature of the battery during the charging process. Make sure the sensor is attached to the battery so that the temperature cutoff operates

value is set too high, a battery may be overcharged. When 7. Adjust Max Charge Time

Ni-Cd negative delta voltage cutoff/cell. The D.Peak value is adjustable between 0mV/Cell and 15mV/Cell. Generally, 10mV/Cell is a good choice for Ni-Cd batteries. When this 8. Adjust Max Charge Capacity value is set too high, a battery may be overcharged. When this value is set too low, the charger will not charge a

correctly.

6. Adjust Trickle Charge Current

Use this menu to set Trickle Charge ON or OFF. When ON, the charge current can be adjusted between 50 and

Safety Timer

Use this menu to set a time on charging a battery. When a charge cycle is started, a clock inside the charger will begin recording the elapsed charge time. If the safety timer function has been turned ON, the charger will stop the charging process when this time limit is reached to

Use this menu to set a capacity limit on when the charger stops charging a battery. When a charge cycle starts, the charger records the battery capacity. When the capacity cut-off function is set to ON, the charger will stop charging at the capacity limit to prevent battery damage.

tings recommended by the battery manufacturer CAUTION: Always charge battery packs at setfor the cell count, voltage and capacity of a battery pack (for example, 2S, 3S, etc.). Do not set capacity (amps) and voltage so high that the charger's 70 Watt maximum output limit is exceeded. Using a charge rate that is not compatible with the battery capacities may result in damage or malfunction of the charger or batteries.

9. a) Set Operating Beep Sound (On/Off) or b) Select Music • Press the START dial and adjust the current rate to the

Key Beer ON 01 Music

sounds when charging is complete or if there is cause for

10. Adjust Volume

Volume Adjust 100%

11. Adjust Background Brightness

Back Li9ht Brightness 100%

Use this menu to set LCD screen intensity.

Load Default YES/NO?

Use this menu to delete saved settings by restoring factory default settings.

# NI-MH AND NI-CD CHARGE MODE

While in the User Setup mode, press the dial to change to Ni-MH battery charging.

- · Press the dial again to confirm changes. Press the MODE button to open the charge current

appropriate rating

NiMH Charge 4.0A

# **MESSAGE DURING NI-MH CHARGING**

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the left or right.

> NiMH 000 : 01 : 0001 Ch9 0.10A 7.62V

1. Ni-MH Charge Sensitivity

To reset to factory recommended sensitivity, see Load Default and select "Yes."

9.07V

29°C

NiMH Sensitivity

D.Peak 3mV/Cell

2. Battery Pack Peak Voltage Peak Voltage

3. Input Voltage/System Temperature Input 13.01V

System Temp 36°C

4. Battery Temperature

Max Charge Temperature

Batt Temp Cutoff 50°C

7. Max Charge Capacity

6. Max Charge Time

Capacity Cut Off ON 9900 mAh

# MESSAGE AFTER NI-MH CHARGING

720min

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the

END 058:08:3188 Chg 0.01A 8.08V

2. Battery Temperature Bat Temp 29°C

WARNING: If at any time during the charge process the battery pack(s) become hot unplug the battery immediately and discontinue the charge process as batteries can cause fire, collateral damage and injuries.

9.07V

# **CHARGE MODE**

While in the User Setup mode, press the dial to change to

• Press the START dial and adjust the current rate to the

appropriate rating. Press and hold the dial for 3 seconds to activate charge

current equals the battery capacity. Example: A 1000mAh battery's charge current limit is 1 amp. Example B 3300mAh battery's charge current is 3.3A)

4.0A 14.8V(4S)

Confirm if the number of selected battery cell is correct.

Is 14.8V(4S)?

To select the correct voltage, use the following formula to calculate the voltage of your pack: 3.7V/cell (e.g. 4S = 4\*3.7=14.8V). Be careful to confirm the correct voltage and cell count. Failure to due so may result in damage

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the left or right

Li4S 0000:01 0001

Ch9 0.10A 15.18V

1. Selected Charge Voltage Select Voltage 16.8V(4S)

3. Max Charge Time

Input 13.01V

System Temp 36°C

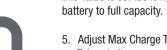
4. Max Charge Capacity

5. Battery Voltage Per Cell

Capacity Cut Off

6. This screen shows which battery cells have the high est and lowest voltage. For example, the second battery has the highest voltage while the third battery has the lowest voltage.

> High 4.131V (S2) Low 4.119V(S3)



Cd (Nickel Cadmium), Li-lon/Poly (Lithium Ion and Lithium Polymer) or Li-Fe (Lithium Ferrous).

Use this screen to set Li-lon/Poly charge cutoff voltage of

The Ni-MH Sensitivity option allows the adjustment of the

4. Adjust Ni-Cd Charge Sensitivity

The Ni-Cd Sensitivity option allows adjustment of the

50°C

NiMH/Nicd/Pb Trickle 100mA

720min

Capacity Cut Off ON 9900 mAh

Use this menu to set the key beep and charger alarm music at ON or OFF as needed. We recommend that you keep the music ON (from the available 10 tones) so this alarm

alarm during charging.

12. To reset the charger to Initial Setting

Bat Temp

Press and hold the dial for 3 seconds to activate charge.

Safety Timer

left or right.

Peak Volta9e

1. Battery Peak Voltage

LI-ION, LI-PO AND LI-FE

Li-Po battery charging.

 Press the dial again to confirm changes. Press the MODE button to open the charge current

warning: Always confirm the pattery voltage and series cell count is correct and never charge 2. Input Voltage/System Temperature higher than a 1C rate. Li-Po batteries can cause serious injury and fire if charged inappropriately. (1C = charger)

Li-Poly Charge

MESSAGE DURING LI-ION/POLY

CHARGING

No=Stop/Yes=Ente

Safety Timer ON 720min

ON 9900 mAh

4.12 4.13 4.11 4.12 0.00 0.00

7. Unbalanced Voltage

Unbalanced Volt 12mV

This screen shows the voltage difference between the highest voltage and lowest voltage cells in the battery pack.

# MESSAGE AFTER LI-ION/POLY CHARGING

A timer screen will show after the charge cycle ends. See the battery's charging status by turning the START dial to the left or right.

Battery Voltage Per Cell

4.12 4.13 4.11 4.12 0.00 0.00

2. This screen shows which battery cells have the highest and lowest voltage. For example, the second battery has the highest voltage while the third battery has the lowest voltage

> High 4.131V (S2) Low 4.119U(S3)

3. Unbalanced Voltage

Unbalanced Volt 12mU

This screen shows the voltage difference between the highest voltage and lowest voltage cells in the battery pack

**WARNING:** If at any time during the charge process the battery pack(s) become hot or begin to puff unplug the battery immediately and discontinue the charge process as batteries can cause fire, collateral damage and injuries.

# LI-ION/POLY CHARGE WARNING MESSAGE

1. This screen shows that the battery cannot be charged at the setting for the current voltage. Change the voltage for this battery.

> ERR Batt Over Voltage

2. This screen shows that the wrong battery voltage has been set for the battery. Change charge voltage value.

Volt Select Err

3. This screen shows that the battery may have been damaged by over discharge. Do NOT charge this battery.

> ERR Batt Low Voltage

# LI-ION/POLY BALANCE CHARGE MODE

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the left or right

> Li-Poly Bal. Chg 4.0A 14.8V(4S)

While in the User Setup mode, press the dial to change to Li-Po battery balance charging.

- Press the dial again to confirm changes.
- Press the MODE button to open the charge current
- Press the START dial and adjust the current rate to the appropriate rating.
- Press and hold the dial for 3 seconds to activate charge.

# MESSAGE DURING LI-ION/POLY **BALANCE CHARGING**

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the left or right.

# MESSAGE AFTER LI-ION/POLY **BALANCE CHARGING**

A timer screen will show after the charge cycle ends. See the battery's charging status by turning the START dial to the left or right.

1. Battery Voltage Per Cell

4.16 4.16 4.16 4.16 0.00 0.00

2. This screen shows which battery cells have the highest and lowest voltage. For example, the second battery has the highest voltage while the third battery has the lowest voltage.

> High 4.165V (S2) Low 4.162V(S3)

3. Unbalance Voltage

Unbalanced Volt

This screen shows the voltage difference between the highest voltage and lowest voltage cells in the battery pack.

# LI-ION/POLY BALANCE CHARGE WARNING MESSAGE

1. This screen shows that the battery cannot be charged at the current setting for voltage. Change the voltage setting for this battery.

Volt Select Err

2. This screen shows when the battery is not correctly connected to the charger using a balance adapter.

Balancer No Connect

3. This screen shows that the unbalanced voltage is above the 10mV limit at 30mV. The charger will automatically switch to a 100mA charge rate until the battery cell voltages are balanced to less than 10mV. The charger will begin normal charging after the cells are balanced.

> Unbalance Volt Over 30mU

4. This screen shows battery voltage is over 4.26V for the first cell in a pack. The charger will drop to a low current rate until the cells are balanced within specifications

> Cell Number 1 Volt Over 4.26V

**WARNING:** Always confirm the battery voltage and series cell count is correct and never charge higher than a 1C rate. Li-Po batteries can cause serious injury and fire if charged inappropriately. (1C charger current equals the battery capacity. Example A: 1000mAh battery's charge current limit is 1 amp. Example B: 3300mAh battery's charge current is 3.3A)

## LI-ION/POLY FAST CHARGE MODE

Near the end of a standard charging cycle, the charger switches from Constant Current (CC) mode to Constant Voltage (CV) mode in order to slowly "top off" the current in the battery pack as close as possible to the maximum capacity. In Fast Charge, the CV mode is eliminated in order to greatly shorten the charging time; however, the final capacity of the battery will be less than what you would get using the standard charge method.

Li-Poly Fast Chg 4.0A 14.8V(4S)

While in the User Setup mode, press the dial to change to Li-Po battery balance charging.

- Press the dial again to confirm changes. • Press the MODE button to open the charge current
- Press the START dial and adjust the current rate to the appropriate rating.
- Press and hold the dial for 3 seconds to activate

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the left or right.

#### PB CHARGE MODE

Pb Charge 4.0A 12.0V

While in the User Setup mode, press the dial to change to Pb battery charging.

- Press the dial again to confirm changes.
- Press the MODE button to open the charge current
- Press the START dial and adjust the current rate to the appropriate rating.
- Press and hold the dial for 3 seconds to activate

Suggested charge rate for PB charging is 0.3C (i.e. .3 x 5Ah=1.5A).

# MESSAGE DURING PB CHARGING

Pb 000:01 0001 Chg 0.58A 14.21V

A timer screen will show during the charge cycle. See the battery's charging status by turning the START dial to the left or right.

1. Selected Fast Charge Cutoff Voltage.

Select Voltage 14.7V

The cutoff value is predetermined when selecting the 2V, 6V, or 12V setting before charging and is not adjustable once charging has begun.

2. Input Voltage/System Temperature

13.01V System Temp 36°C

3. Max Charge Time

Safety Timer ON 720min

4. Max Charge Capacity

Capacity Cut Off ON 9900 mAh

A timer screen will show after the charge cycle ends. See the battery's charging status by turning the START dial to the left or right.

# **WARNING INFORMATION**

LCD Screen Warning and Error messages are shown below. During charger operation, circuits monitor battery and charger functions. The following messages may show on the charger's LCD screen if you need to make the recommended responses. If the message continues after you respond as recommended, contact your nearest Horizon Hobby customer service center for assistance.

- If the battery connection is lost during operation, the OPEN/STOP error will flash. Replace or reconnect battery
- Reverse Polarity: Battery polarity reversed. Connect poles of charge adapters correctly to the battery and the charger.
- Waiting Overheating: Charger temperature overheated. Lower charge/discharge current rates and be sure the cooling fan is not blocked. After charging, Ni-MH/END will flash alternately,
- showing the battery may be removed from the charger. When the charge reaches the negative delta voltage,
- the Ni-MH/FULL is displayed, showing the battery may be removed from the charger. When the charge reaches the Timed setting limit,
- the Ni-MH/TIME is displayed. Remove the battery from the charger.
- When the charge reaches the capacity setting limit, the Ni-MH/CAPA is displayed, Ni-MH/CAPA will flash alternately. Remove the battery from the charger.

- 8. When the charge reaches the Temperature setting limit, the Ni-MH/TEMP is displayed. Remove the battery from the charger and do a test of the battery to make sure the battery is not damaged.
- 9. Li-Po/Li-Fe Battery Low Voltage, LOW/VOL will flash alternately. Remove the battery from the charger and do a test of the battery to make sure the battery is not damaged.
- 10. FAN/STOP will flash alternately when the cooling fan is not operating correctly. Make sure the fan is not blocked and that the charger has not been left powered on for a long time without charging a battery

System Err Return to Repair

11. This screen is displayed when there is a charger breakdown, Contact your nearest Horizon Hobby customer service center for assistance.

> Current Err Return to Repair

12. This screen shows when there is a charger breakdown. Contact your nearest Horizon Hobby customer service center for assistance.

	Battery Type					
	Li-Po	Li-lon	Li-Fe	Ni-MH	Ni-Cd	Pb
Standard voltage (Volts per cell)	3.70	3.60	3.30	1.20	1.20	2.00
Maximum voltage (Volts per cell)	4.20	4.10	3.60	1.60	1.60	2.45
Minimum voltage (Volts per cell)	3.00	3.00	2.00	1.00	0.85	1.75

# **FIVE YEAR LIMITED** WARRANTY

### **What this Warranty Covers**

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.

### **What is Not Covered**

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, or (v) Products not purchased from an authorized Horizon dealer.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORI-ZON MAKES NO OTHER WARRANTY OR REPRESENTA-TION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT. MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHAS-ER'S INTENDED USE.

#### Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PRO-VIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. **Limitation of Liability** 

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDI-OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POS-

SIBILITY OF SUCH DAMAGES. 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 the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

#### **WARRANTY SERVICES**

#### Questions, Assistance, and Services

Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or 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.horizonhobbv.com.

#### Inspection or Services

If this Product needs to be inspected or serviced, please use the Horizon Online Service 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 RECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS 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 Service

Request is available at http://www.horizonhobby.com under the Support 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 service. 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 LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

#### **Warranty Requirements**

For Warranty consideration, you must include your original sales receipt verifying the proof-of**purchase date.** Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

#### Non-Warranty Service

Should your service not be covered by warranty service 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 service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service 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 service, you are agreeing to Horizon's Terms and Conditions found on our website http://www. horizonhobby.com/Service/Request/.

# WARRANTY AND SERVICE CONTACT INFORMATION

<b>Country of Purchase</b>	Horizon Hobby	Address	Phone Number / Email Address
United States of	Horizon Service Center (Electronics and engines)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 Online Repair Request: visit www. horizonhobby.com/repairs
America	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 productsupport@horizonhobby.com

# PARTS CONTACT INFORMATION

TATTO COLLIAGE IIII CHIMATICI								
<b>Country of Purchase</b>	Horizon Hobby	Address	Phone Number / Email Address					
United States	Sales	4105 Fieldstone Rd Champaign, Illinois,	800-338-4639 sales@horizonhobby.com					

### FCC INFORMATION

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the

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