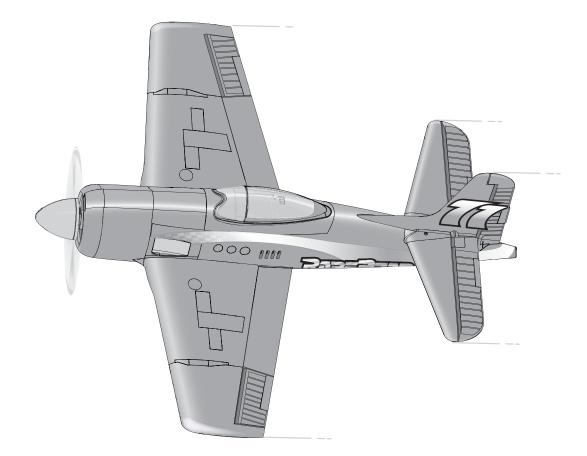


Eflite

Rare Bear



Instruction Manual Bedienungsanleitung Manuel d'utilisation Manuale di Istruzioni



Plug-N-Play[®]

Bind-N-Fly®

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.horizonhobby.com and click on the support tab for this product.

Meaning of Special Language:

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

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND 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.

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. 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 use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. 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.

AGE RECOMMENDATION: Not for children under 14 years. This is not a toy. WARNING AGAINST COUNTERFEIT PRODUCTS: If you ever need to replace your Spektrum receiver found in a Horizon Hobby product, always purchase from Horizon Hobby, LLC or a Horizon Hobby authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, LLC disclaims all support and warranty with regards, but not limited to, compatibility and performance of counterfeit products or products claiming compatibility with DSM or Spektrum.

Safety Precautions and Warnings

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

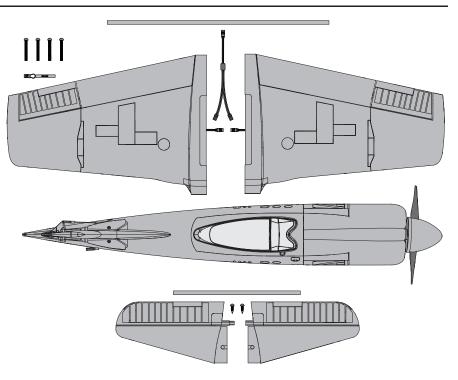
- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- · Always avoid water exposure to all equipment not specifically designed and

protected for this purpose. Moisture causes damage to electronics.

- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.
- Always keep aircraft in sight and under control.
- Always use fully charged batteries.
- Always keep transmitter powered on while aircraft is powered.
- · Always remove batteries before disassembly.
- Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- Always remove batteries after use.
- Always ensure failsafe is properly set before flying.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.

Box Contents

Quick Start Information					
	Blank (Acro) Model				
Transmitter Setup	Servo Reversing: Normal				
Setup	Т	ravel Adjust (All Su	rfaces): 100%		
		Hand Launch and Landing	Low		
Dual Rates	Ail	▲=14mm ▼=12mm	▲=11mm ▼=09mm		
Dual nates	Ele	▲=5mm ▼=5mm	▲=3mm ▼=3mm		
	Rud	►=10mm ◄ =10mm	►=8mm = 8mm		
		High	Low		
EXP0	Ail	15%	5%		
(Soft center)	Ele	20%	5%		
	Rud	5%	0%		
Center of Gravity (CG)	89mm back from leading edge at the root.				
Flight Timer Setting	3 minutes				



Specifications				
	Motor: 15 BL Brushless outrunner 1200Kv	Installed	Installed	
	ESC: 70-Amp Switch Mode BEC Brushless ESC with EC3 [™] (EFLA1070)	Installed	Installed	
	(4) Servos (SPMSA320)	Installed	Installed	
Ţ	Receiver: Spektrum [™] AR636A 6-Channel Sport Receiver	Installed	Required to Complete	
- +0	Recommended Battery: 3300mA 11.1V 4S 50C Li-Po (EFLB33004S50)	Required to Complete	Required to Complete	
+	Recommended Battery Charger: 4-cell Li-Po battery balancing charger	Required to Complete	Required to Complete	
(((('']''))) ⊙ ⊙	Recommended Transmitter: Full-Range 2.4GHz with Spektrum [™] DSM2 [®] /DSMX [®] technology. (DX6i and above)	Required to Complete	Required to Complete	

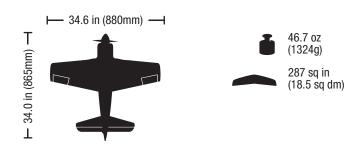


Table of Contents

Preflight	4
Model Assembly	4
Model Assembly Continued	5
Clevis Installation and Control Centering	6
Control Horn and Servo Arm Settings	6
PNP Receiver Selection and Installation	7
Transmitter and Receiver Binding	7
Battery Installation and ESC Arming	8
Center of Gravity (CG)	
AS3X Control Direction Test	
Flying Tips and Repairs	10
Post Flight	
Motor Service	
Troubleshooting Guide AS3X	
Troubleshooting Guide	
AMA National Model Aircraft Safety Code	
Limited Warranty	
Contact Information	
FCC Information	
IC Information	
Compliance Information for the European Union	
Replacement Parts	
Optional Parts	

Preflight

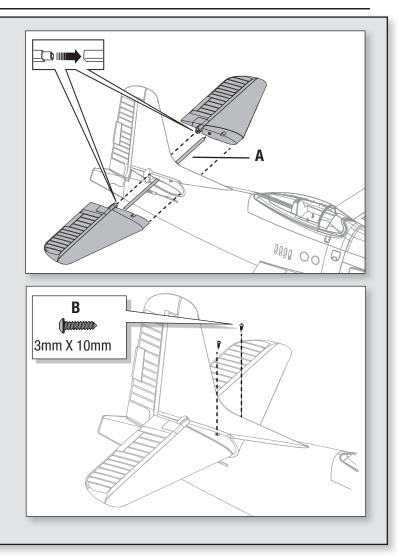
1	Remove and inspect contents.
2	Read this instruction manual thoroughly.
3	Charge flight battery.
4	Fully assemble airplane.
5	Install the flight battery in the aircraft (once it has been fully charged).
6	Check the Center of Gravity (CG).
7	Bind aircraft to your transmitter.
8	Make sure linkages move freely.

9	Perform the Control Direction Test with the transmitter.
10	Perform the AS3X Control Direction Test with the aircraft.
11	Adjust flight controls and transmitter.
12	Perform a radio system Range Test.
13	Find a safe open area to fly.
14	Plan flight for flying field conditions.

Model Assembly

Horizontal Tail Installation

- 1. Slide the horizontal tail tube (\mathbf{A}) into the hole in the rear of the fuselage.
- 2. Install the 2 piece (left and right) horizontal tail as shown. Ensure the control horn faces down.
- 3. Install 2 screws (B) to secure the horizontal tail into place.
- 4. Attach the clevis to the elevator control horn (see instructions for clevis connection).
- 5. When needed, disassemble in reverse order.



Model Assembly Continued

Wing Installation

- 1. Remove the canopy hatch (A) from the fuselage.
- 2. Slide the wing tube (**B**) into the fuselage.
- 3. Install the left and right wing (**C and D**) over the wing tube and into the wing slot of the fuselage while inserting the aileron servo connectors through the provided holes.

CAUTION: DO NOT crush or otherwise damage the wiring when attaching the wing to the fuselage.

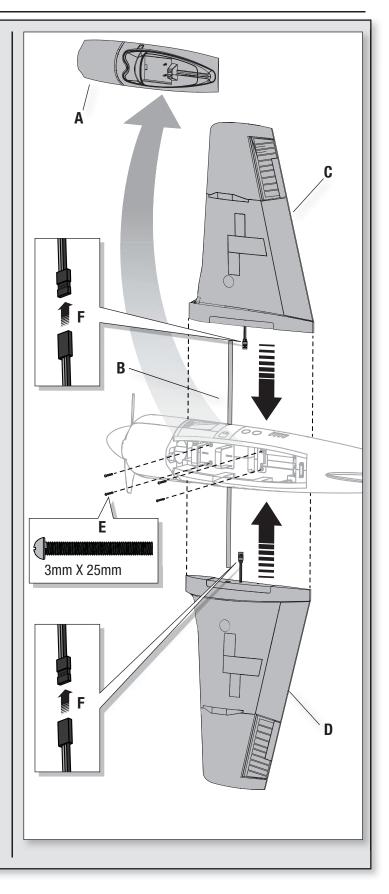
4. Secure the left and right wings to the fuselage using the included 4 screws (E).

Tip: If needed, use hemostats or pliers to pull the servo connectors into the fuselage.

- 5. Connect the aileron servos (**F**) from the wings to the Y-harness connectors in the fuselage. The left and right aileron servos can be connected to either side of the Y-harness.
- 6. Reinstall the canopy hatch on the fuselage.

Disassemble in reverse order.

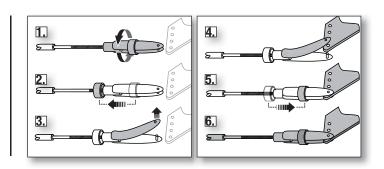
IMPORTANT: Correct operation of the AS3X[®] system requires connection of both ailerons to the included Y-harness and the AILE (#2 channel) of the receiver.



Clevis Installation and Control Centering

Clevis Installation

- Pull the tube from the clevis to the linkage.
- Carefully spread the clevis, then insert the clevis pin into the desired hole in the control horn.
- Move the tube to hold the clevis on the control horn.



ାର୍ଚ୍ଚ

Control Surface Centering

After assembly and transmitter setup, confirm that the control surfaces are centered. If the control surfaces are not centered, mechanically center the control surfaces by adjusting the linkages.

If adjustment is required, turn the clevis on the linkage to change the length of the linkage between the servo arm and the control horn.

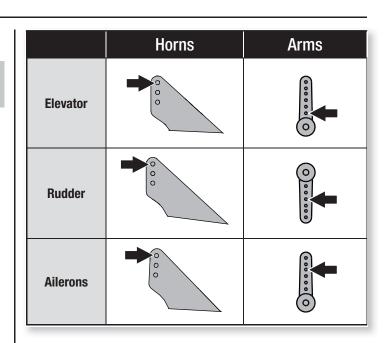
After binding a transmitter to the aircraft receiver, set the trims and sub-trims to 0, then adjust the clevises to center the control surfaces.

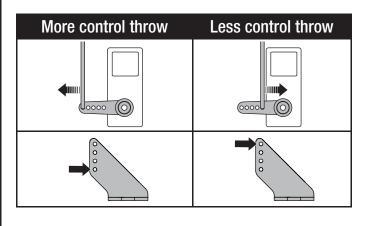
Control Horn and Servo Arm Settings

The table to the right shows the factory settings for the control horns and servo arms. Fly the aircraft at factory settings before making changes.

NOTICE: If control throws are changed from the factory settings, the AR636 gain values may need to be adjusted. Refer to the Spektrum AR636 manual for adjustment of gain values.

After flying, you may choose to adjust the linkage positions for the desired control response. See the table to the right.





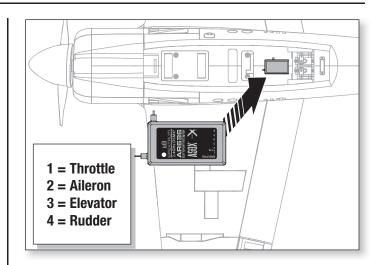
The Spektrum AR636 receiver is recommended for ths airplane. If you choose to install another receiver, ensure that it is at least a 4-channel full range (sport) receiver. Refer to your receiver manual for correct installation and operation instructions.

Installation (AR636 shown)

- 1. Remove the canopy from the fuselage.
- 2. Mount the receiver parallel to the length of the fuselage as shown. Use double-sided servo tape.

CAUTION: Incorrect installation of the receiver could cause a crash.

3. Attach the appropriate control surfaces to the their respective ports on the receiver using the chart in the illustration.



Transmitter and Receiver Binding

Binding is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. You need to 'bind' your chosen Spektrum[™] DSM2[®]/DSMX[®] technology equipped aircraft transmitter to the receiver for proper operation.

IMPORTANT: Before binding a transmitter, read the Transmitter Setup section of this manual to ensure that your transmitter is properly programmed for this aircraft.

IMPORTANT: The included AR636 receiver has been programmed for operation specifically for this aircraft. Refer to the receiver manual for correct setup if the receiver is replaced or is used in another aircraft.

Read the transmitter instructions for binding to a receiver (location of transmitter's Bind control). Please visit www.bindnfly.com for a complete list of compatible transmitters.

CAUTION: When using a Futaba® transmitter with a Spektrum DSM module, you must reverse the throttle channel and rebind. Refer to your Spektrum module manual for binding and failsafe instructions. Refer to your Futaba transmitter manual for instructions on reversing the throttle channel.

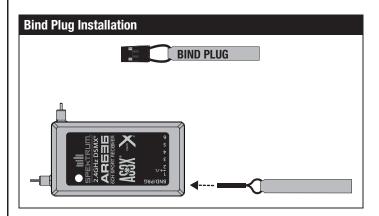
- 1. Make sure the transmitter is powered off.
- 2. Move the transmitter controls to neutral (flight controls: rudder, elevators and ailerons) or to low positions (throttle, throttle trim).**
- 3. Install a bind plug in the receiver bind port extension.
- Connect the flight battery to the ESC. The ESC will produce a series of sounds. One long tone, then 3 short tones confirm that the LVC is set correctly for the ESC. The orange bind LED on the receiver will begin to flash rapidly.
- 5. Power on the transmitter while holding the transmitter bind button or switch. Refer to your transmitter's manual for binding.
- 6. When the receiver binds to the transmitter, the orange bind light on the receiver will turn solid and the ESC will produce a series of three ascending tones. The tones indicate the ESC is armed, provided the throttle stick and throttle trim are low enough to trigger arming.

- 7. Remove the bind plug from the bind port extension.
- 8. Safely store the bind plug (some owners attach the bind plug to their transmitter using two-part loops and clips).
- 9. The receiver should retain the binding instructions received from the transmitter until another binding is done.

* The throttle will not arm if the transmitter's throttle control is not put at the lowest position. If you encounter problems, follow the binding instructions and refer to the transmitter troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office.

**Failsafe

If the receiver loses transmitter communication, the failsafe will activate. When activated, the airplane controls return to the neutral position established during step 2 of the binding procedure.



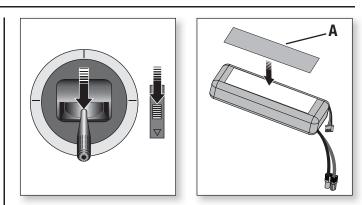
Battery Selection

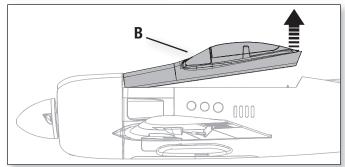
We recommend the E-flite[®] 3300mAh 11.1V 4S 50C Li-Po battery (EFLB33004S50). Refer to the Optional Parts List for other recommended batteries. If using a battery other than those listed, the battery should be within the range of capacity, dimensions and weight of the E-flite Li-Po battery packs to fit in the fuselage. Be sure the model balances at the recommended CG.

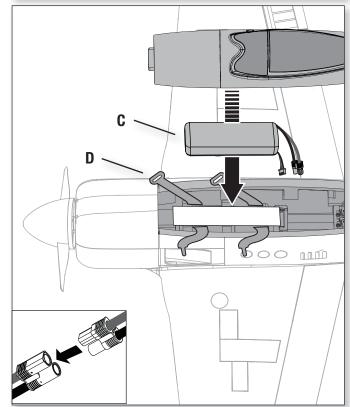
- 1. Lower the throttle and throttle trim to the lowest settings. Power on the Transmitter, then wait 5 seconds.
- 2. Apply the loop side (soft side) of the hook and loop tape (A) to the bottom of your battery.
- 3. Carefully lift the back of the canopy hatch (B) to remove.
- 4. Install the fully charged battery (**C**) in the battery compartment as shown. *See the Adjusting the Center of Gravity instructions for more information.*
- 5. Make sure the flight battery is secured using the hook and loop strap (D).
- 6. Connect the battery to the ESC (the ESC is now armed).
- 7. Keep the aircraft immobile and away from wind or the system will not initialize.
 - The ESC will sound a series of tones (refer to step 6 of the binding instructions for more information).
 - An LED will light on the receiver.

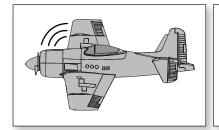
If the ESC sounds a continuous double beep after the flight battery is connected, recharge or replace the battery.

8. Reinstall the canopy hatch.





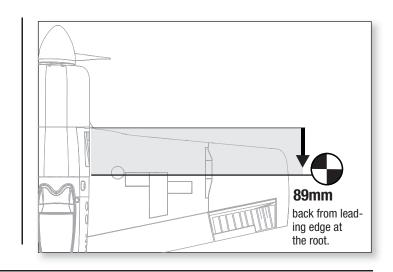




CAUTION: Always keep hands away from the propeller. When armed, the motor will turn the propeller in response to any throttle movement.

Center of Gravity (CG)

The CG location is measured from the leading edge of the wing at the root. This CG location has been determined with the recommended Li-Po battery installed all the way forward in the battery compartment.

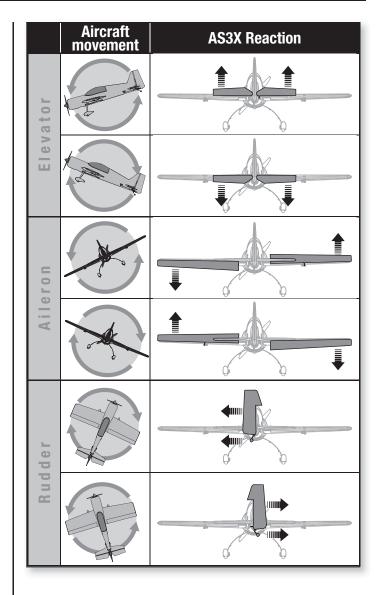


AS3X Control Direction Test

This test ensures that the AS3X[®] control system is functioning properly. Assemble the aircraft and bind your transmitter to the receiver before performing this test.

- 1. Raise the throttle just above 25% and then lower the throttle to activate AS3X.
- 2. Move the entire aircraft as shown and ensure the control surfaces move in the direction indicated in the graphic. If the control surfaces do not respond as shown, do not fly the aircraft. Refer to the receiver manual for more information.

Once the AS3X system is active, control surfaces may move rapidly. This is normal. AS3X is active until the battery is disconnected.



Flying Tips and Repairs

Consult local laws and ordinances before choosing a flying location.

Range Check your Radio System

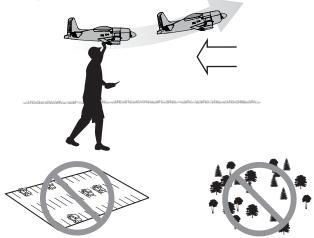
Before you fly, range check the radio system. Refer to your specific transmitter instruction manual for range test information.

Oscillation

Once the AS3X system is active (after advancing the throttle for the first time), you will normally see the control surfaces react to aircraft movement. In some flight conditions you may see oscillation (the aircraft rocks back and forth on one axis due to overcontrol). If oscillation occurs, refer to the Troubleshooting Guide for more information.

Hand Launching

For first flights, we recommend you use the help of a friend to hand launch the model. Hold the aircraft in the finger grips on the underside of the fuselage. Face into the wind and advance the throttle to between 50 and 75%. Give the aircraft a firm throw directly into the wind at a slight angle (10 degrees above the horizon). Advance the throttle and climb out.



Flying

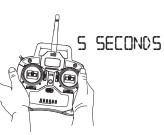
Always choose a wide-open space for flying. Due to the higher speeds of this aircraft, it does require more room to fly than average foam models. It is ideal for you to fly at a sanctioned flying field. If you are not flying at an approved site, always avoid flying near houses, trees, wires and buildings. You should also be careful to avoid flying in areas where there are many people, such as busy parks, schoolyards, or soccer fields.

In flight trimming

During your first flight, trim the aircraft for level flight at 3/4 throttle. Make small trim adjustments with your transmitter's trim switches to straighten the aircraft's flight path. After landing, adjust the linkages mechanically to account for trim changes and then reset the trims to neutral. Ensure the aircraft will fly straight and level with no trim or sub-trim.

After adjusting transmitter trim in the air or on the ground, **do not touch the control sticks for 5 seconds.** This allows the receiver to learn the correct settings to optimize AS3X performance.

Failure to do so could affect flight performance.



Landing

For your first flights with the recommended battery pack (EFLB33004S50), set your transmitter timer or a stopwatch to 3 minutes. After three minutes, land the aircraft. Adjust your timer for longer or shorter flights once you have flown the model. If at any time the motor pulses, land the aircraft immediately to recharge the flight battery. See the Low Voltage Cutoff (LVC) section for more details on maximizing battery health and run time.

Land the aircraft into the wind in a soft area, such as tall grass using the recommended landing rate. Use a small amount of throttle for the initial approach. Once the aircraft is on a proper approach angle, and the aircraft will land in the proper area, remove all throttle, but maintain the descent. During approach and landing, keep the wings level and the aircraft pointed into the wind. As you approach 2-3 feet in altitude, begin your flare. Continue easing back on the elevator to bring the aircraft down gently on the belly.

NOTICE: If a crash is imminent, reduce the throttle and trim fully. Failure to do so could result in extra damage to the airframe, as well as damage to the ESC and motor.

NOTICE: After any impact, always ensure the receiver is secure in the fuselage. If you replace the receiver, install the new receiver in the same orientation as the original receiver or damage may result.

NOTICE: Crash damage is not covered under warranty.



NOTICE: When you are finished flying, never leave the aircraft in direct sunlight or in a hot, enclosed area such as a car. Doing so can damage the aircraft.

Low Voltage Cutoff (LVC)

When a Li-Po battery is discharged below 3V per cell, it will not hold a charge. The ESC protects the flight battery from over-discharge using Low Voltage Cutoff (LVC). Before the battery charge decreases too much, LVC removes power supplied to the motor. Power to the motor pulses, showing that some battery power is reserved for flight control and safe landing.

Disconnect and remove the Li-Po battery from the aircraft after use to prevent trickle discharge. Charge your Li-Po battery to about half capacity before storage. During storage, make sure the battery charge does not fall below 3V per cell. LVC does not prevent the battery from over-discharge during storage.

NOTICE: Repeated flying to LVC will damage the battery.

Tip: Monitor your aircraft battery's voltage before and after flying by using a Li-Po Cell Voltage Checker (EFLA111, sold separately).

Repairs

Thanks to the Z-Foam[™] material in this aircraft, repairs to the foam can be made using virtually any adhesive (hot glue, regular CA, epoxy, etc). When parts are not repairable, see the Replacement Parts List for ordering by item number. For a listing of all replacement and optional parts, refer to the list at the end of this manual.

NOTICE: Use of CA accelerant on your aircraft can damage paint. DO NOT handle the aircraft until accelerant fully dries.

Post Flight

1	1 Disconnect the flight battery from the ESC (Required for Safety and battery life). 2 Power OFF the transmitter.		Repair or replace all damaged parts.	
			Store the flight battery apart from the aircraft and monitor the battery charge.	
2				
3	Remove the flight battery from the aircraft.	7	Make note of the flight conditions and flight plan results, planning for	
4	Recharge the flight battery.		future flights.	

Motor Service

CAUTION: Always disconnect the flight battery before performing motor service.

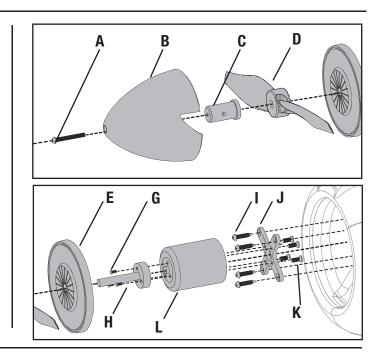
Disassembly

- 1. Remove the screw (A) and spinner (B) from the prop nut (C).
- 2. Remove the propeller (**D**), backplate (**E**) from the prop adapter and motor. You will need a tool to turn the spinner nut.
- 3 Remove the 3 screws (G) from the prop adapter (H) and remove it from the motor.
- 4. Remove the 4 screws (I) from the motor mount (J) and the fuselage.
- 5. Disconnect the motor wires from the ESC wires.
- 6. Remove the 4 screws (K) and motor (L) from the motor mount.

Assembly

Assemble in reverse order.

- Correctly align and connect the motor wire colors with the ESC wires.
- The propeller size numbers (8 x 8) must face to the front of the airplane for correct propeller operation.
- A tool is required to tighten the lock nut on the collet.



Troubleshooting Guide AS3X

Problem	Possible Cause	Solution	
	Damaged propeller or spinner	Replace propeller or spinner	
	Imbalanced propeller	Balance the propeller. For more information, view John Redman's propeller balancing video at www. horizonhobby.com	
	Motor vibration	Replace parts or correctly align all parts and tighten fasteners as needed	
Oscillation	Loose receiver	Align and secure receiver in fuselage	
	Loose aircraft controls	Tighten or otherwise secure parts (servo, arm, linkage, horn and control surface)	
	Worn parts	Replace worn parts (especially propeller, spinner or servo)	
	Irregular servo movement	Replace servo	
	Too high of gain value in AR636	Reference AR636 manual to reduce gain value.	
	Trim is not at neutral	If you adjust trim more than 8 clicks, adjust the clevis to remove trim	
Inconsistent flight	Sub-Trim is not at neutral	No Sub-Trim is allowed. Adjust the servo linkage	
performance	Aircraft was not kept im- mobile for 5 seconds after battery connection.	With the throttle stick in lowest position. Disconnect battery, then reconnect battery and keep the aircraft still for 5 seconds	
Incorrect response to the AS3X Control Direction Test	Incorrect direction settings in the receiver, which can cause a crash	DO NOT fly. Correct the direction settings (refer to the receiver manual), then fly	

Troubleshooting Guide

Problem	Possible Cause	Solution
A. (1	Throttle not at idle and/or throttle trim too high	Reset controls with throttle stick and throttle trim at lowest setting
Aircraft will not re- spond to throttle but	Throttle servo travel is lower than 100%	Make sure throttle servo travel is 100% or greater
responds to other controls	Throttle channel is reversed	Reverse throttle channel on transmitter
Controls	Motor disconnected from ESC	Make sure motor is connected to the ESC
	Damaged propeller and spinner, collet or motor	Replace damaged parts
Extra propeller noise	Propeller is out of balance	Balance or replace propeller
or extra vibration	Prop nut is too loose	Tighten the prop nut
	Spinner is not tight or fully seated in place	Tighten the spinner or remove the spinner and turn it 180 degrees
	Flight battery charge is low	Completely recharge flight battery
Reduced flight time	Propeller installed backwards	Install propeller with numbers facing forward
or aircraft under-	Flight battery damaged	Replace flight battery and follow flight battery instructions
powered	Flight conditions may be too cold	Make sure battery is warm before use
	Battery capacity too low for flight conditions	Replace battery or use a larger capacity battery
	Transmitter too near aircraft during binding process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
Aircraft will not Bind	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt binding again
(during binding) to transmitter	The bind plug is not installed correctly in the bind port	Install bind plug in bind port and bind the aircraft to the transmitter
anomator	Flight battery/transmitter battery charge is too low	Replace/recharge batteries
	Bind switch or button not held long enough during bind process	Power off transmitter and repeat bind process. Hold transmitter bind button or switch until receiver is bound
	Transmitter too near aircraft during connecting process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt connecting again
Aircraft will not con-	Bind plug left installed in bind port	Rebind transmitter to the aircraft and remove the bind plug before cycling power
nect (after binding) to transmitter	Aircraft bound to different model memory (ModelMatch™ radios only)	Select correct model memory on transmitter
	Flight battery/Transmitter battery charge is too low	Replace/recharge batteries
	Transmitter may have been bound to a different air- craft using different DSM protocol	Bind aircraft to transmitter
	Control surface, control horn, linkage or servo damage	Replace or repair damaged parts and adjust controls
	Wire damaged or connections loose	Do a check of wires and connections, connect or replace as needed
Control surface does not move	Transmitter is not bound correctly or the incorrect airplanes was selected	Re-bind or select correct airplanes in transmitter
	Flight battery charge is low	Fully recharge flight battery
	BEC (Battery Elimination Circuit) of the ESC is damaged	Replace ESC
Controls reversed Transmitter settings are reversed Perform the Cor appropriately		Perform the Control Direction Test and adjust the controls on transmitter appropriately
	ESC uses default soft Low Voltage Cutoff (LVC)	Recharge flight battery or replace battery that is no longer performing
Motor power pulses	Weather conditions might be too cold	Postpone flight until weather is warmer
then motor loses power	Battery is old, worn out, or damaged	Replace battery
	Battery C rating might be too small	Use recommended battery

Effective January 1, 2014

A. GENERAL

A model aircraft is a non-human-carrying aircraft capable of sustained flight in the atmosphere. It may not exceed limitations of this code and is intended exclusively for sport, recreation, education and/or competition. All model flights must be conducted in accordance with this safety code and any additional rules specific to the flying site.

- Model aircraft will not be flown:

 (a) In a careless or reckless manner.
 (b) At a location where model aircraft activities are prohibited.
- 2. Model aircraft pilots will:
 - (a) Yield the right of way to all man carrying aircraft.
 - (b) See and avoid all aircraft and a spotter must be used when appropriate. (AMA Document #540-D.)
 - (c) Not fly higher than approximately 400 feet above ground level within three (3) miles of an airport, without notifying the airport operator.
 (d) Not interfere with operations and traffic patterns at any airport, holiport
 - (d) Not interfere with operations and traffic patterns at any airport, heliport or seaplane base except where there is a mixed use agreement.
 - (e) Not exceed a takeoff weight, including fuel, of 55 pounds unless in compliance with the AMA Large Model Aircraft program. (AMA Document 520-A.)
 - (f) Ensure the aircraft is identified with the name and address or AMA number of the owner on the inside or affixed to the outside of the model aircraft. (This does not apply to model aircraft flown indoors).
 - (g) Not operate aircraft with metal-blade propellers or with gaseous boosts except for helicopters operated under the provisions of AMA Document #555.
 - (h) Not operate model aircraft while under the influence of alcohol or while using any drug which could adversely affect the pilot's ability to safely control the model.
 - (i) Not operate model aircraft carrying pyrotechnic devices which explode or burn, or any device which propels a projectile or drops any object that creates a hazard to persons or property. Exceptions:
 - Free Flight fuses or devices that burn producing smoke and are securely attached to the model aircraft during flight.
 - Rocket motors (using solid propellant) up to a G-series size may be used provided they remain attached to the model during flight. Model rockets may be flown in accordance with the National Model Rocketry Safety Code but may not be launched from model aircraft.
 - Officially designated AMA Air Show Teams (AST) are authorized to use devices and practices as defined within the Team AMA Program Document (AMA Document #718).
 - (j) Not operate a turbine-powered aircraft, unless in compliance with the AMA turbine regulations. (AMA Document #510-A).

 Model aircraft will not be flown in AMA sanctioned events, air shows or model demonstrations unless:

 (a) The aircraft, control system and pilot skills have successfully demonstrated all maneuvers intended or anticipated prior to the specific event.
 (b) An inexperienced pilot is assisted by an experienced pilot.

 When and where required by rule, helmets must be properly worn and fastened. They must be OSHA, DOT, ANSI, SNELL or NOCSAE approved or comply with comparable standards.

B. RADIO CONTROL

- All pilots shall avoid flying directly over unprotected people, vessels, vehicles or structures and shall avoid endangerment of life and property of others.
- 2. A successful radio equipment ground-range check in accordance with manufacturer's recommendations will be completed before the first flight of a new or repaired model aircraft.
- At all flying sites a safety line(s) must be established in front of which all flying takes place (AMA Document #706.)
 (a) Only personnel associated with flying the model aircraft are allowed at
 - or in front of the safety line. (b) At air shows or demonstrations, a straight safety line must be established.
 - (c) An area away from the safety line must be maintained for spectators.(d) Intentional flying behind the safety line is prohibited.
- RC model aircraft must use the radio-control frequencies currently allowed by the Federal Communications Commission (FCC). Only individuals properly licensed by the FCC are authorized to operate equipment on Amateur Band frequencies.
- 5. RC model aircraft will not operate within three (3) miles of any pre-existing flying site without a frequency-management agreement (AMA Documents #922 and #923.)
- 6. With the exception of events flown under official AMA Competition Regulations, excluding takeoff and landing, no powered model may be flown outdoors closer than 25 feet to any individual, except for the pilot and the pilot's helper(s) located at the flight line.
- Under no circumstances may a pilot or other person touch a model aircraft in flight while it is still under power, except to divert it from striking an individual.
- 8. RC night flying requires a lighting system providing the pilot with a clear view of the model's attitude and orientation at all times. Hand-held illumination systems are inadequate for night flying operations.
- 9. The pilot of a RC model aircraft shall:
 - (a) Maintain control during the entire flight, maintaining visual contact without enhancement other than by corrective lenses prescribed for the pilot.
 - (b) Fly using the assistance of a camera or First-Person View (FPV) only in accordance with the procedures outlined in AMA Document #550.
 - (C) Fly using the assistance of autopilot or stabilization system only in accordance with the procedures outlined in AMA Document #560.

Please see your local or regional modeling association's guidelines for proper, safe operation of your model aircraft.

Limited Warranty

What this Warranty Covers

Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.

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, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, 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 PURCHASER'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 PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS 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 POSSIBILITY 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.

Law

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 visit our website at www.horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, 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 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/content/_service-center_render-service-center. 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 cashier's 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/ content/_service-center_render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

Contact Information

Country of Purchase	Horizon Hobby	Phone Number/Email Address	Address	
	Horizon Service Center	servicecenter.horizonhobby.com/		
	(Repairs and Repair Requests)	RequestForm/		
	Harizon Draduat Cunnart	www.quickbase.com/db/		
United States of	Horizon Product Support	bghj7ey8c?a=GenNewRecord	4105 Fieldstone Rd	
America	(Product Technical Assistance)	888-959-2305	Champaign, Illinois, 61822 USA	
	Color	sales@horizonhobby.com		
	Sales	888-959-2305		
United Kingdom	Service/Parts/Sales:	sales@horizonhobby.co.uk	Units 1–4 , Ployters Rd, Staple Tye	
United Kingdom	Horizon Hobby Limited	+44 (0) 1279 641 097	Harlow, Essex, CM18 7NS, United Kingdom	
Cormonu	Horizon Technischer Service	service@horizonhobby.de	Christian-Junge-Straße 1	
Germany	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	25337 Elmshorn, Germany	
Franco	Service/Parts/Sales:	infofrance@horizonhobby.com	11 Rue Georges Charpak	
France	Horizon Hobby SAS	+33 (0) 1 60 18 34 90	77127 Lieusaint, France	
China	Service/Parts/Sales:	info@horizonhobby.com.cn	Room 506, No. 97 Changshou Rd.	
Unilla	Horizon Hobby – China	+86 (021) 5180 9868	Shanghai, China 200060	

FCC Information

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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

IC Information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not

This product contains a radio transmitter with wireless technology which has been tested

and found to be compliant with the applicable regulations governing a radio transmitter

). cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

in the 2.400GHz to 2.4835GHz frequency range.

Compliance Information for the European Union

Declaration of Conformity

(in accordance with ISO/IEC 17050-1) No. HH2014122202

Product(s): Item Number(s): Equipment class: E-flite Rare Bear with AS3X BNF Basic EFL1250 1

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC and EMC Directive 2004/108/EC:

EN301 489-1 V1.9.2: 2012 EN301 489-17 V2.1.1: 2009

EN55022:2010 + AC:2011 EN55024:2010

EN 61000-6-1: 2007 EN 61000-6-3: 2007 EN 61000-6-3: 2007+A1:2007

Signed for and on behalf of: Horizon Hobby, LLC. Champaign, IL USA December 22, 2014

Executive Vice President Product Divisions Horizon Hobby, LLC

Declaration of Conformity

(in accordance with ISO/IEC 17050-1) No. HH2014122203

Product(s): Item Number(s): Equipment class: E-flite Rare Bear PNP EFL1275 1

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:

EN55022:2010 + AC:2011 EN55024:2010

EN 61000-6-1: 2007 EN 61000-6-3: 2007 EN 61000-6-3: 2007+A1:2007

CE Signed for an

Signed for and on behalf of: Horizon Hobby, LLC. Champaign, IL USA December 22, 2014

Executive Vice President Product Divisions Horizon Hobby, LLC

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 collections 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.

Part # I Nummer Numéro I Codice	Description	Beschreibung	Description	Descrizione
EFL1201	Spinner: Rare Bear	Spinner: Rare Bear	Cône : Rare Bear	Ogiva: Rare Bear
EFL1202	Decal Set: Rare Bear	Dekorbogen: Rare Bear	Planche de décalcomanies : Rare Bear	Foglio con decalcomanie: Rare Bear
EFL1204	Prop Adapter: Rare Bear	Rare Bear Propeller Adapter: Rare Bear	Adaptateur d'hélice : Rare Bear	Adattatore elica: Rare Bear
EFL1205	Wingtube Set: Rare Bear	Rare Bear: Flächenverbinder	Clé d'aile : Rare Bear	baionetta alare
EFL1206	Pilot: Rare Bear	Rare Bear: Pilot	Pilote : Rare Bear	pilotino
EFL1212	Painted Conopy Hatch with Pilot: Rare Bear	Rare Bear: Kabinenhaube lackiert m. Pilot	Cockpit avec pilote : Rare Bear	sportello capottina con pilotino
EFL1220	Painted Wing Set with Servo Covers: Rare Bear	Rare Bear: Tragfläche lackiert m. Servoabdeckungen	Ailes peintes avec trappes de servos : Rare Bear	set ali verniciate con coperture servi
EFL1222	Pushrod Set: Rare Bear	Rare Bear: Gestängeset	Tringleries : Rare Bear	aste di comando
EFL1225	Painted Horizontal Stabilizer Set: Rare Bear	E-flite Rare Bear: Höhenruder	Stabilisateur peint : Rare Bear	set piani di coda verniciati
EFL1228	Motor X-Mount: Rare Bear	Rare Bear: Motorhalter	Support moteur en X : Rare Bear	supporto X motore
EFL1267	Painted Fuselage: Rare Bear	Rare Bear: Rumpf lackiert	Fuselage peint : Rare Bear	fusoliera verniciata
EFLM1215	15 BL Outrunner Motor: 1200Kv	E-flite 15 BL Außenläufer Motor: 1200Kv	Moteur brushless BL 15, 1200Kv	15 BL Outrunner Motore: 1200Kv
EFLA1070	70-Amp Lite Pro Switch-Mode BEC Brushless ESC with EC3	70-Amp Lite Pro Switch-Mode BEC Brushless Regler m. EC3	Contrôleur 70A mode BEC avec prise EC3	70-Amp Lite Pro Brushless ESC BEC switching con EC3
SPMAR636	Spektrum 6-Channel AS3X Sport Receiver	Spektrum 6 Kanal AS3X Sport Empfänger	Récepteur Spektrum 6 voies avec AS3X	Ricevitore sport AS3X Spektrum 6 canali
EFLP882E	Propeller: 8 x 8 2 Blade: Rare Bear	Propeller: 8 x 8 2 Blade	Hélice bipale 8x8 : Rare Bear	elica bipala 8 x 8

Optional Parts • Optionale Bauteile • Pièces optionnelles • Pezzi opzionali

Part # l Nummer Numéro l Codice	Description	Beschreibung	Description	Descrizione
EFLA250	Park Flyer Tool Assortment, 5 pc	Park Flyer Werkzeugsortiment, 5 teilig	Assortiment d'outils park flyer, 5pc	Park Flyer assortimento attrezzi, 5 pc
EFLAEC302	EC3 Battery Connector, Female (2)	EC3 Akkukabel, Buchse (2)	Prise EC3 femelle (2pc)	EC3 Connettore femmina x batteria (2)
EFLAEC303	EC3 Device/Battery Connector, Male/Female	EC3 Kabelsatz, Stecker/Buchse	Prise EC3 male/femelle	EC3 Connettore batteria maschio/ femmina
EFLB33004S50	3300mAh 4S 14.8V 50C Li-Po, 12AWG EC3	E-fl ite 3300mAh 4S 14.8V 50C Li-Po; 12AWG EC3	3300mAh 4S 14.8V 50C Li-Po, 12AWG EC3	3300mAh 4S 14.8V 50C Li-Po, 12AWG EC3
EFLC3025	Celectra 80W AC/DC Multi-Chemistry Battery Charger	Celectra 80 W AC/DC Multi-Chemistry-Batterieladegerät	Chargeur de batterie AC/DC Celectra 80 W multi-types	Caricabatterie per batteria multichi- mica 80 W c.a./c.c.
EFLC3020	200W DC multi-chemistry battery charger	200W DC Multi-Batterie Ladegerät - EU	Chargeur multiple DC 200W	200W DC Caricabatterie universale
EFLC4010	Celectra 15VDC 250W Power Supply	Celectra 15 V DC 250-W-Netzstecker	Alimentation Celectra CC 15 V 250 W	Alimentatore Celectra 15V c.c., 250 W
DYNC2010CA	Prophet Sport Plus 50W AC DC Charger	Dynamite Ladegerät Prophet Sport Plus 50W AC/DC EU	Chargeur Prophet Sport Plus 50W AC DC	Caricabatterie Prophet Sport Plus 50W AC DC
EFLA111	Li-Po Cell Voltage Checker	Li-Po Cell Voltage Checker	Testeur de tension d'éléments Li-Po	Voltmetro verifi ca batterie LiPo
DYN1405	Li-Po Charge Protection Bag, Large	Dynamite LiPoCharge Protection Bag groß	Sac de charge Li-Po, grand modèle.	Sacchetto grande di protezione per carica LiPo
DYN1400	Li-Po Charge Protection Bag, Small	Dynamite LiPoCharge Protection Bag klein	Sac de charge Li-Po, petit modèle	Sacchetto piccolo di protezione per carica LiPo
	DX6i DSMX 6-Channel Transmitter	Spektrum DX6i DSMX 6-Kanal Sender	Emetteur DX6i DSMX 6 voies	DX6i DSMX Trasmettitore 6 canali
	DX6 DSMX 6-Channel Transmitter	Spektrum DX6 DSMX 6-Kanal Sender	Emetteur DX6 DSMX 6 voies	DX6 DSMX Trasmettitore 6 canali
	DX7s DSMX 7-Channel Transmitter	Spektrum DX7s DSMX 7 Kanal Sender	Emetteur DX7s DSMX 7 voies	DX7s DSMX Trasmettitore 7 canali
	DX8 DSMX 8-Channel Transmitter	Spektrum DX8 DSMX 8 Kanal Sender	Emetteur DX8 DSMX 8 voies	DX8 DSMX Trasmettitore 8 canali
	DX9 DSMX 9-Channel Transmitter	Spektrum DX9 DSMX 9 Kanal Sender	Emetteur DX9 DSMX 9 voies	DX9 DSMX Trasmettitore 9 canali
	DX18 DSMX 18-Channel Transmitter	Spektrum DX18 DSMX 18 Kanal Sender	Emetteur DX18 DSMX 18 voies	DX18 DSMX Trasmettitore 18 canali



Rare Bear

© 2015 Horizon Hobby, LLC.

E-flite, AS3X, DSM, DSM2, DSMX, the DSMX logo, Bind-N-Fly, Z-Foam, ModelMatch, EC3, Celectra and the Horizon Hobby logo are trademarks or registered trademarks of Horizon Hobby, LLC.

The Spektrum trademark is used with permission of Bachmann Industries, Inc.

Futaba is a registered trademark of Futaba Denshi Kogyo Kabushiki Kaisha Corporation of Japan.

Rare Bear and the Rare Bear trimscheme are trademarks of Lewis Racing, LLC and are used with permission by Horizon Hobby, LLC.

All other trademarks, service marks and logos are property of their respective owners.

Patents pending.

http://www.e-fliterc.com/