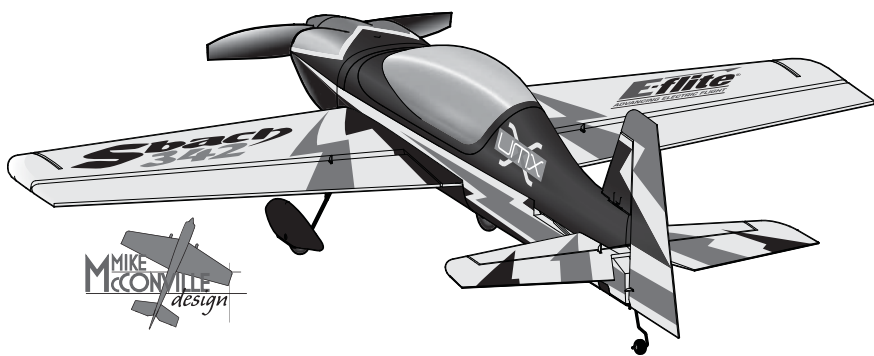


# Sbach<sup>®</sup> 342



***Instruction Manual  
Bedienungsanleitung  
Manuel d'utilisation  
Manuale di Istruzioni***



BIND-N-FLY SPEKTRUM DSM TECHNOLOGY



***E-flite<sup>®</sup>***  
**ADVANCING ELECTRIC FLIGHT**

**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](http://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 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.

**Age Recommendation: Not for children under 14 years.** This is not a toy.

Thank you for purchasing the E-flite® UMX™ Sbach® 342. Its 2S Li-Po, 2500Kv brushless power system is one of the most powerful ever developed for an aircraft this small. The phenomenal power-to-weight ratio it delivers is a big reason the UMX Sbach 342 flies more like a larger scale precision aerobatic plane than a typical Ultra Micro.

The exceptional capabilities of the UMX Sbach 342 require a little more first-flight preparation than you may be used to with other Bind-N-Fly® Ultra Micro aircraft.

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## First Flight Preparation

1. Remove and inspect contents
2. Read this instruction manual thoroughly
3. Connect the charger to a 12V power supply
4. Begin charging the flight battery
5. Install fully charged flight battery into aircraft
6. Bind the receiver to a transmitter
7. Perform the Control Direction Test with the transmitter
8. Ensure pushrods move freely
9. Adjust flight controls and transmitter
10. Adjust battery for center of gravity (CG)
11. Perform a radio system Range Check
12. Find a safe and open area
13. Plan flight for flying field conditions

### Specifications

<b>Wingspan</b>	17 in (432mm)
<b>Length</b>	16.4 in (417mm)
<b>Weight</b>	1.9 oz (55 g)

### Installed



180BL 2500Kv brushless outrunner



Spektrum™ AR6400NBL Ultra Micro Receiver/BL ESC unit



(4) 1.7 g Linear Long Throw Servos

### Included



**Battery:** 180mAh 2S 20C Li-Po  
**Battery Charger:** 2S 7.4V Li-Po

### Needed to Complete

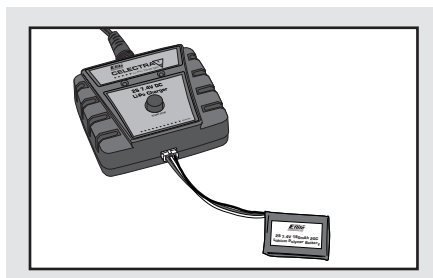


**Transmitter:** 2.4GHz with Spektrum™ DSM2/DSMX with adjustable dual-rates and expo (DX6i and up)

To register your product online, go to [www.e-fliterc.com](http://www.e-fliterc.com)

## Charging the Battery

Your Sbach 342 comes with a Celecra™ 2S 7.4V DC Li-Po Charger and 2-Cell 7.4V 180 mAh 20C Li-Po battery. Please visit [www.horizonhobby.com](http://www.horizonhobby.com) for optional battery adapters. Refer to battery warnings. It is recommended to charge the battery pack while you are inspecting the aircraft. The flight battery will be required to confirm proper aircraft operation in future steps.



### The Battery Charging Process

1. Charge only batteries that are cool to the touch and are not damaged. Look at the battery to make sure it is not damaged e.g., swollen, bent, broken or punctured.
2. The connector of the battery is specifically designed to allow it to fit into the charge port one way to prevent reverse polarity connection. However, check for proper alignment and polarity before proceeding to the next step.
3. Gently press the battery connector into the charge port located on the front of the charger.
4. When you make the connection successfully, the green LED blinking on the charger slows, indicating proper connection.
5. Press the button on the charger, the red LED will illuminate, indicating charging has begun.
6. Charging a fully discharged (not over-discharged) 180mAh battery takes approximately 50–60 minutes.
7. When battery is fully charged, the green LED will illuminate.
8. Always unplug the battery from the charger immediately upon completion of charging.

**⚠ CAUTION:** Overcharging a battery can cause a fire.

**⚠ CAUTION:** Only use a charger specifically designed to charge a Li-Po battery. Failure to do so could result in fire causing injury or property damage.


**⚠ CAUTION:** Never exceed the recommended charge rate.

### LED Functions under normal operation

- |  |                      |
|--|----------------------|
| 1. Green LED blinking with power connected but without battery ..... | Standby              |
| 2. Green LED blinking .....  | Battery is connected |
| 3. Blinking Red LED at varying speeds .....                          | Charging             |
| 4. Red and Green LED blinking simultaneously .....                   | Balancing            |
| 5. Solid Green LED .....   | Full Charge          |
| 6. Red and Green LED flashing rapidly .....                          | Error                |

## Battery Warnings

The Battery Charger (EFLUC1007) included with the Sbach 342 has been designed to safely charge the Li-Po battery.

 **CAUTION:** All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.

- By handling, charging or using the included Li-Po battery you assume all risks associated with lithium batteries.
- If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
- Always store the battery at room temperature in a dry area for best results.
- Always transport or temporarily store the battery in a temperature range of 40–120° F. Do not store

battery or model in a car or direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.

- Always charge batteries away from flammable materials.
- NEVER USE AN Ni-Cd OR Ni-MH CHARGER. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage
- Never discharge Li-Po cells to below 3V under load.
- Never cover warning labels with hook and loop strips.
- Never leave charging batteries unattended.
- Never charge batteries outside safe temperature range.
- Never charge damaged batteries.

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## Low Voltage Cutoff (LVC)

When a Li-Po battery is discharged below 3V per cell, it will not hold a charge. The Sbach 342 ESC protects the flight battery from over-discharge using Low Voltage Cutoff (LVC). Before the battery charge decreases too much, LVC removes power supply from the motor. Power to the motor quickly decreases and increases, showing some battery power is reserved for flight control and safe landing.

When the motor power decreases then increases, please land the aircraft immediately and recharge the flight battery.

Disconnect and remove the Li-Po battery from the aircraft after use to prevent trickle discharge. Before storage, charge the Li-Po battery to full capacity. During storage make sure battery charge does not go below 3V per cell.

**Note:** Due to the quiet nature of the aircraft, you may not hear the pulsing of the motor. Set flight timer to 6 minutes for the included 2S 180mAh battery.

**NOTICE:** Repeated flying to LVC will damage the battery.

## Transmitter and Receiver Binding

Binding is the process of programming the receiver of the control unit 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.

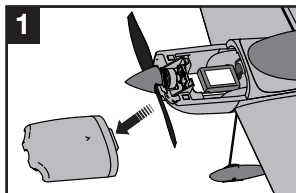
**Note:** Any JR® or Spektrum DSM2/DSMX transmitter can bind to the Spektrum AR6400NBL receiver. Due to the aerobatic capabilities of the UMX Sbach 342 it is highly recommended that you use a transmitter with adjustable exponential and dual rates. Please visit [www.bindnfly.com](http://www.bindnfly.com) for a complete list of compatible transmitters.

**Note:** When using a Futaba® transmitter with a Spektrum DSM module, reversing the throttle channel is required.

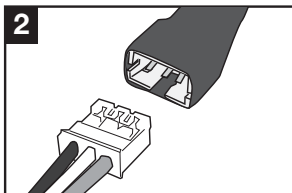
### ✓ Binding Procedure

1. Refer to your transmitter's unique instructions for binding to a receiver.
2. Make sure the flight battery is disconnected from the aircraft.
3. Power off your transmitter.
4. Connect the flight battery in the aircraft. The receiver LED will begin to flash rapidly. (Typically after 5 seconds).
5. Make sure transmitter controls are neutral and throttle and throttle trim are in low position.
6. Put your transmitter into bind mode. Refer to your transmitter's manual for binding button or switch instructions.
7. After 5 to 10 seconds, the receiver status LED will become solid, indicating that the receiver is bound to the transmitter. **Note:** If the LED does not go to a solid light, refer to Troubleshooting Guide at back of manual.

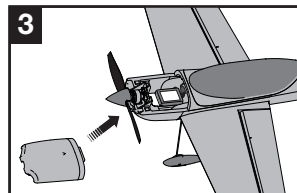
## Installing Flight Battery



**1** Remove battery hatch from nose of aircraft.



**2** Connect fully charged flight battery to receiver.

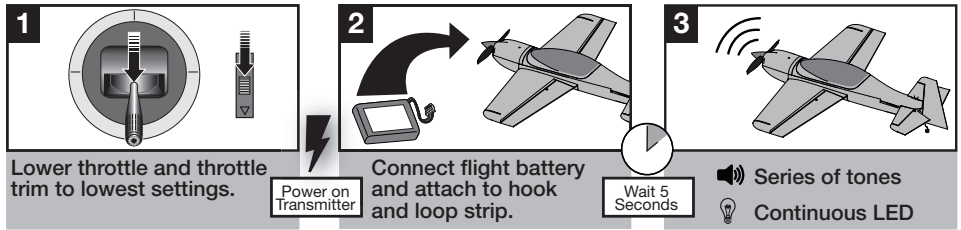


**3** Attach battery to tray strip and install battery hatch.

**Note:** If using a different battery than the included 2-Cell 7.4V 180mAh 20C Li-Po, you will need to apply a circle of hook and loop fastener to the back of the battery, opposite the side with label.

**NOTICE:** Always disconnect the Li-Po from the receiver of the aircraft when not flying. Failure to do so will render the battery unusable.

## Before Flight



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

When the aircraft does not respond, binding may be required.

If throttle is fully raised when battery is connected, a musical tone will sound after 5 seconds. Disconnect the battery immediately.

**NOTICE:** Fully lower transmitter throttle before connecting the flight battery. Failure to do so may alter AR6400NBL settings.

For more information about the AR6400NBL, visit [www.SpektrumRC.com](http://www.SpektrumRC.com).

## Control Direction Test

You should bind your aircraft and transmitter before doing these tests. Move the controls on the transmitter to make sure aircraft control surfaces move correctly and in the proper direction.

**Note:** Make sure tail linkages move freely and that paint or decals are not adhered to them.

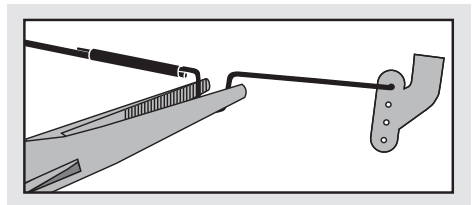
## Control Centering

Before first flights, or in the event of an accident, make sure the flight control surfaces are centered. Adjust linkages mechanically if control surfaces are not centered.

Use of the transmitter sub-trims may not correctly center the aircraft control surfaces due to the mechanical limits of linear servos.

1. Make sure control surfaces are neutral when the transmitter controls and trims are centered. Where possible, transmitter sub-trim must be set to zero.

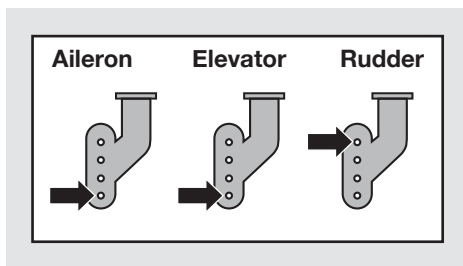
2. When needed, use a pair of pliers to carefully bend the metal of the linkage (see illustration).
3. Make the U-shape narrower to make the connector shorter. Make the U-shape wider to make the linkage longer.



## Settings for Control Horns

The Illustrations show linkage positions chosen for the most balanced aerobatic response. Linkage connections on control horns directly affect aircraft response.

When these are incorrectly connected for the pilot's skill level, unexpected aircraft response to controls can result. This can cause damage to the aircraft and personal injury.



## Dual Rates and Expo

We recommend using a DSM radio capable of dual rates and expo due to the aerobatic capabilities of the Sbach 342. The settings below are recommended starting settings. Adjust according to individual preferences after initial flight.

Dual Rates	High Rate	Low Rate
Aileron	100%	70%
Elevator	100%	60%
Rudder	100%	70%

Expo	High Rate	Low Rate
Aileron	30%	20%
Elevator	15%	5%
Rudder	20%	10%

**Note:** The DX5e transmitter is not recommended for use with the Sbach 342.

**NOTICE: DO NOT SET YOUR TRANSMITTER TRAVEL ADJUST OVER 100%.** If the TRAVEL ADJUST is set over 100% it will not result in more control movement; and it will overdrive the servo and cause damage.

It is normal for linear servos to make noise. The noise is not an indication of a faulty servo.

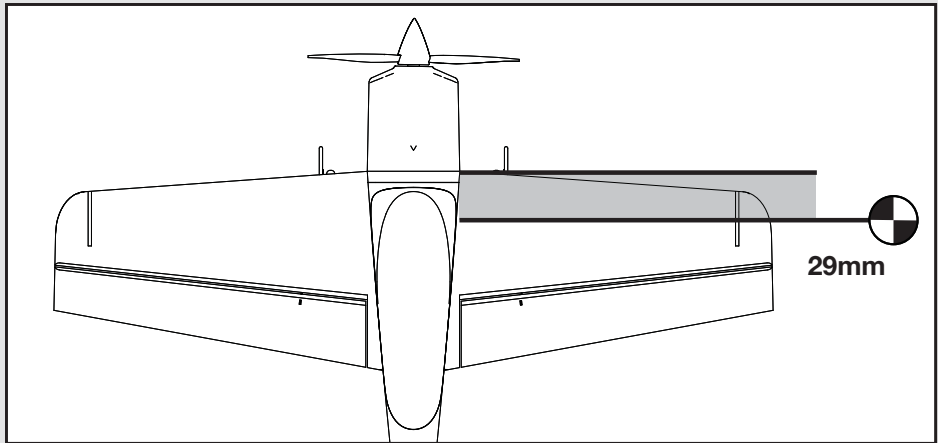
**Note:** Left and right aileron servos are under the wing.



## Adjusting Center of Gravity (CG)

The CG location is **29mm** back from leading edge of the wing at the root. This CG location has been determined with the included 2S 180mAh 7.4V Li-Po battery installed in the front of the battery cavity.

**Note:** The oversized battery tray allows for Center of Gravity adjustment. Start by placing the battery at the rear edge of the battery tray with the plug facing the rear of the aircraft. Adjust as needed by sliding the battery back or forward. You may also turn the battery 180 degrees, bringing the plug to the front for connection. Wire length provides for either front-facing or rear-facing battery connection.



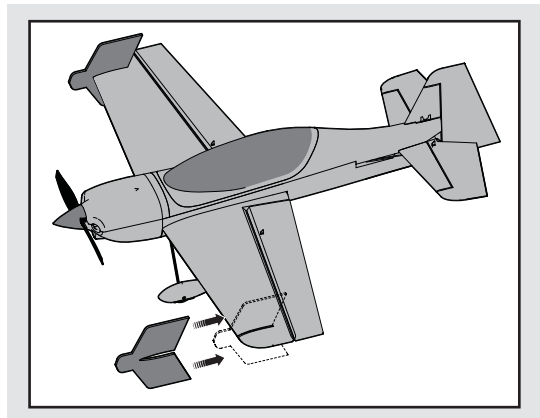
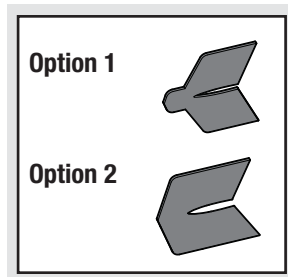
## Optional – Installation of Side Force Generators (SFGs)

SFGs add side force in all flight attitudes, increase rudder authority and make possible a variety of aerobatics.

The two SFG sets included with the Sbach 342 provide different amounts of increased rudder control. We recommend first flying the Sbach 342 without the SFGs, then with each set of SFGs to determine what is best for your flying style. SFGs

shown in **Option 1** provide enhanced rudder authority, while SFGs in **Option 2** provide extreme rudder authority.

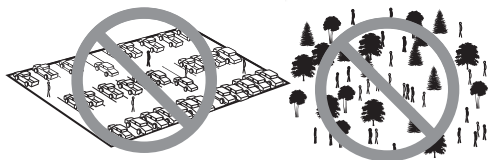
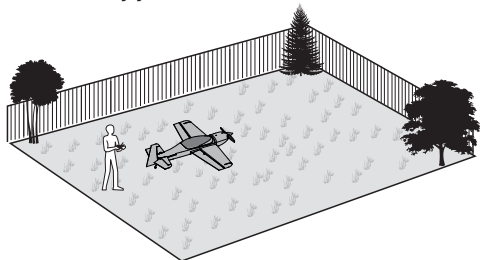
Slide the SFG on to the leading edge of the wing. Apply a few drops of foam-safe CA to stabilize the SFGs on the wings and to prevent them from moving in flight.



## Flying Tips and Repairs

### Flying

We recommend only flying your Sbach 342 in light winds. 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. Consult local laws and ordinances before choosing a location to fly your aircraft.



Place the Sbach 342 in position for takeoff (facing into the wind if flying outdoors). Gradually increase the throttle to  $\frac{3}{4}$  to full, and steer with the rudder. Pull back gently with the elevator and climb to check trim. Once the trim is adjusted, begin exploring the flight envelope of the Sbach 342.

Failure to lower the throttle stick and trim to the lowest possible positions during a crash could result in damage to the ESC in the receiver unit, which may require replacement.

The Sbach 342 is equipped with Over Current Protection (OCP). This feature protects the ESC from overheating. OCP stops the motor when the transmitter throttle is set high and the propeller cannot turn. The OCP will only activate when throttle is positioned just above  $\frac{1}{2}$  throttle. After the ESC stops the motor, fully lower the throttle to re-arm the ESC.

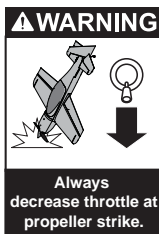
**Note:** Crash damage is not covered under warranty.

### Repairs

Repair the Sbach 342 using foam-compatible CA glue or clear tape. Only use foam-compatible CA glue, as other types of glue can damage the foam. When parts are not repairable, see the Replacement Parts List for ordering by item number.

**Note:** For a listing of all replacement and optional parts, refer to the list at the back of this manual.

If needed, keep the wheel pants from turning on the landing gear by putting a small amount of foam-safe CA glue on the end of the landing gear wire.



## Additional 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.

This model is controlled by a radio signal subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is advisable to always keep a safe distance in all directions around your model, as this space will help avoid collisions or injury.

- Always keep a safe distance in all directions around your model to avoid collisions or injury.
- 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.

### Maintenance After Flying

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

# Service of Power Components

## Disassembly

**⚠ CAUTION:** DO NOT handle propeller parts while the flight battery is connected. Personal injury could result.

### Propeller

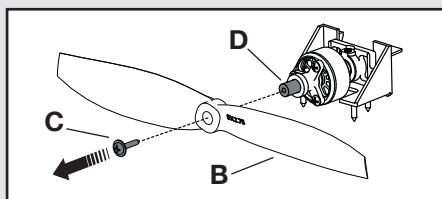
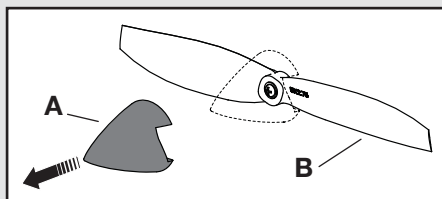
1. Remove battery hatch by gripping the front of hatch, then pulling it up and away from the fuselage.

2. Remove spinner (A) from the propeller (B).

**Note:** Since the propeller and spinner are glued together, glue residue will need to be cleaned from the spinner or propeller when these parts are used again.

3. Carefully remove screw (C) and propeller (B) from motor shaft (D).

**Note:** A propeller spacer is installed on the motor shaft. Take care to not lose the spacer; it is needed to correctly install the propeller.



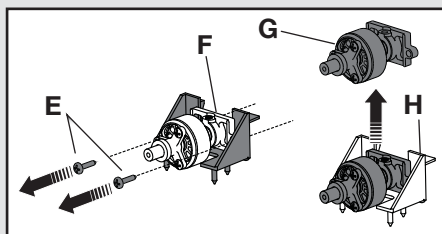
### Motor and Firewall

1. Remove 2 screws (E), firewall (F) and motor (G) from the fuselage motor mount (H).

**Note:** The motor magnet will attract screws to the motor.

2. Remove top screw (I) from the firewall (F) and motor (G).

3. Disconnect motor wire connector from ESC/receiver connector.



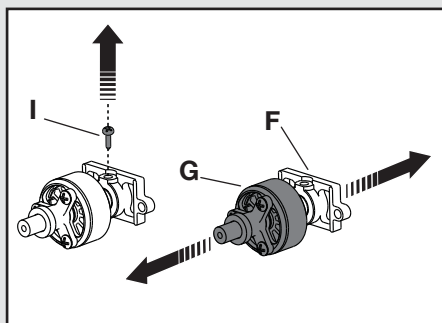
## Assembly

### Motor and Firewall

1. Connect motor wire connector to the ESC/receiver connector so wire colors align.
2. Install motor in firewall using a screw put in the top of the firewall.
3. Attach firewall to fuselage motor mount using 2 screws.

### Propeller

1. Install propeller on motor shaft using a screw. **Note:** Numbers on the propeller must face out from fuselage for correct propeller operation.
2. Install spinner on propeller using foam-compatible CA.
3. Put foam battery hatch on the fuselage and slide it back to fully engage the fuselage.



When the fuselage must be opened for access to servos or receiver, cut tape or decals to open the canopy hatch.

**Note:** Removing tape or decals will remove paint from the fuselage.

# Troubleshooting Guide

Problem	Possible Cause	Solution
Aircraft will not respond to throttle but responds to other controls	Throttle stick and/or throttle trim too high	Reset controls with throttle stick and throttle trim at lowest setting
	Throttle channel is reversed	Reverse throttle channel on transmitter
	Motor disconnected from receiver	Open fuselage and make sure motor is connected to the receiver
Extra propeller noise or extra vibration	Damaged propeller, spinner or motor	Replace damaged parts
	Prop screw is too loose	Tighten the prop screw
Reduced flight time or aircraft underpowered	Flight battery charge is low	Completely recharge flight battery
	Propeller installed backwards	Install propeller with numbers facing forward
	Flight battery damaged	Replace flight battery and follow flight battery instructions
	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
LED on receiver flashes and aircraft will not bind to transmitter (during binding)	Transmitter too near aircraft during binding process	Power off transmitter, move transmitter a larger distance from aircraft, disconnect and reconnect flight battery to aircraft and follow binding instructions
	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
LED on receiver flashes rapidly and aircraft will not respond to transmitter (after binding)	Less than a 5-second wait between first powering on transmitter and connecting flight battery to aircraft	Leaving transmitter on, disconnect and reconnect flight battery to aircraft
	Aircraft bound to different model memory (ModelMatch™ radios only)	Select correct model memory on transmitter and disconnect and reconnect flight battery to aircraft
	Flight battery/transmitter battery charge is too low	Replace/recharge batteries
Control surface does not move	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
	Flight battery charge is low	Fully recharge flight battery
	Control linkage does not move freely	Make sure control linkage moves freely
Controls reversed	Transmitter settings reversed	Do the Control Direction Test and adjust controls on transmitter appropriately
Motor loses power	Damage to motor or power components	Do a check of motor and power components for damage (replace as needed)
Motor power quickly decreases and increases then motor loses power	Battery power is down to the point of receiver/ESC Low Voltage Cutoff (LVC)	Recharge flight battery or replace battery that is no longer performing
Motor/ESC is not armed after landing	Over Current Protection (OCP) stops the motor when the transmitter throttle is set high and the propeller cannot turn	Fully lower throttle and throttle trim to arm ESC
Servo locks or freezes at full travel	Travel adjust value is set above 100% overdriving the servo	Set Travel adjust to 100% or less and/or set sub-trims to Zero and adjust linkages mechanically.

# 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](mailto: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](http://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 Authori-zation (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 Hobby.

## Non-Warranty Repairs

**Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost.** By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of 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.

## Warranty and Service Information

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States of America	Horizon Service Center (Electronics and engines)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 Online Repair Request visit: www.horizonhobby.com/repairs
	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 productsupport@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Technischer Service	Hamburger Str. 10 25335 Elmshorn Germany	+49 4121 46199 66 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com

## FCC Information

This device complies with part 15 of the FCC rules. 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.

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 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. HH2011050501

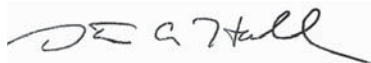
	Product(s):	EFL Sbach 342 BNF
	Item Number(s):	EFLU4180
	Equipment class:	1

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:

EN 301 489-1 V1.7.1: 2006  
EN 301 489-17 V1.3.2: 2008

EN55022: 2006,  
EN55024: 1998+A1: 2001+A2: 2003

Signed for and on behalf of:  
Horizon Hobby, Inc.  
Champaign, IL USA  
May 5, 2011



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.

**– Replacement Parts –**  
**– Ersatzteile –**  
**– Pièces de rechange –**  
**– Recapiti per i ricambi –**

Part # • Nummer Numéro • Codice	Description	Beschreibung	Description	Descrizione
EFLU4146	Pushrod Set: UMX Sbach 342	Schubstange: UMX Sbach 342	Set de tringleries: UMX Sbach 342	Astine comandi: UMX Sbach 342
EFLU4151	Spinner: UMX Sbach 342	Spinner: UMX Sbach 342	Cône: UMX Sbach 342	Ogiva: UMX Sbach 342
EFLU4152	SFG Set: UMX Sbach 342	SFG Set: UMX Sbach 342	Set de SFG: UMX Sbach 342	SFG Set: UMX Sbach 342
EFLU4154	Wheel Pant Set: UMX Sbach 342	Radverkleidung: UMX Sbach 342	Set de chapeaux de roues: UMX Sbach 342	Set carenature ruote: UMX Sbach 342
EFLU4155	Landing Gear with Wheels: UMX Sbach 342	Fahrwerk mit Rädern: UMX Sbach 342	Train avec roues: UMX Sbach 342	Carrello atterraggio con ruote: UMX Sbach 342
EFLU4158	Fuselage Set: UMX Sbach 342	Rumpf: UMX Sbach 342	Set de fuselage: UMX Sbach 342	Set fusoliera: UMX Sbach 342
EFLU4159	Wing: UMX Sbach 342	Tragfläche: UMX Sbach 342	Aile: UMX Sbach 342	Ala: UMX Sbach 342
EFLU4160	Tail Set: UMX Sbach 342	Leitwerk: UMX Sbach 342	Set d'empennage: UMX Sbach 342	Set piani di coda: UMX Sbach 342
EFLU4162	Battery Hatch: UMX Sbach 342	Batteriefach: UMX Sbach 342	Trappe de batterie: UMX Sbach 342	Copertura vano batteria: UMX Sbach 342
EFLU4163	Canopy: UMX Sbach 342	Kabinenhaube: UMX Sbach 342	Bulle: UMX Sbach 342	Cappottina: UMX Sbach 342
EFLU4165	Decal Set: UMX Sbach 342	Dekorbogen: UMX Sbach 342	Set de décoration: UMX Sbach 342	Set adesivi: UMX Sbach 342
EFLU4167	Prop Adapter: UMX Sbach	Eflite Propeller Adapter: UMX Sbach 342	Adaptateur d'hélice: UMX Sbach	Adattatore elica: UMX Sbach
EFLUC1007	Celectra 2S 7.4V DC Li-Po Charger	Celectra 2S 7.4V DC Li-Po Ladegerät	Celectra Chargeur Li-Po 7.4V 2S	Celectra 2S 7.4V DC Li-Po Caricabatterie
EFLUM180BL2	180 Brushless Outrunner Motor 2500KV	BL180 Brushless Außenläufer Motor 2500 kv	Moteur brushless à cage tournante 180 2500kv	180 Motore brushless cassa rotante 2500KV
SPMAR6400NBL	Spektrum Brushless Ultra Micro Receiver	Spektrum Brushless Ultra Micro Empfänger	Récepteur ultra-micro Brushless Spektrum	Spektrum Brushless Ultra-Micro ricevitore
SPMAS2000L	1.7-Gram Linear Long Throw Servo	Spektrum 1.5g Linear Servo, Weg lang	Servo linéaire 1.7g longue course	Servo 1,7 g lineare a corsa lunga
EFLUB1802S20	2S 7.4V 180mAh Li-Po Battery	2S 7.4V 180mAh Li-Po Akku	Batterie Li-Po 7.4V 2S 180mA	2S 7.4V 180mAh Li-Po Batteria



**– Optional Parts and Accessories –**  
**– Optionale Bauteile und Zubehörteile –**  
**– Pièces optionnelles et accessoires –**  
**– Parti opzionali e accessori –**

<b>Part # • Nummer Numéro • Codice</b>	<b>Description</b>	<b>Beschreibung</b>	<b>Description</b>	<b>Descrizione</b>
EFLA700UM	Charger Plug Adapter: EFL	Ladekabel Adapter EFL	Prise d'adaptation chargeur: EFL	Adattatore connettore caricabatterie: EFL
EFLA7001UM	Charger Plug Adapter: TP	Ladekabel Adapter EFL	Prise d'adaptation chargeur: TP	Adattatore connettore caricabatterie: TP
EFLU4068	Harness Adapter: UMX Beast	E-flite UMX Beast Y-Kabel	Adaptateur de câblage: UMX Beast	Adattatore collegamenti: UMX Beast
SPM6825	AS2000 Servo Reverser	AS2000 Servo Reverser	AS2000 Inverseur de servo	Inversore servo AS2000
EFLC4000	AC to 12V DC, 1.5–Amp Power Supply	AC to 12V DC, 1.5–Amp Power Supply	Alimentation secteur 12V DC 1.5A	AC to 12V DC, 1.5–Amp Alimentatore
EFLC4000UK	AC to 12V DC, 1.5–Amp Power Supply UK Plug	E-flite Netzteil 1.5A, UK Stecker	Alimentation secteur 12V DC 1.5A prise UK	AC to 12V DC, 1.5–Amp Alimentatore UK Plug
EFLC4000AU	AC to 12V DC, 1.5–Amp Power Supply 240V	E-flite Netzteil 1.5A, AU Stecker	Alimentation secteur 240V/ 12V DC 1.5A	AC to 12V DC, 1.5–Amp Alimentatore 240V
EFLC4000EU	AC to 12V DC, 1.5–Amp Power Supply EU Plug	E-flite Netzteil 1.5A, EU Stecker	Alimentation secteur 12V DC 1.5A prise EU	AC to 12V DC, 1.5–Amp Alimentatore EU Plug
SPMR6610	DX6i Transmitter Only Mode 2	DX6i Sender Mode 2	DX6i émetteur seul, mode 2	DX6i solo trasmettitore Mode 2
SPMR66101	DX6i Transmitter Only Mode 1	DX6i Sender Mode 1	DX6i émetteur seul, mode 1	DX6i solo trasmettitore Mode 1
SPMR6610E	DX6i Transmitter Only Mode 2 Int'l	Spektrum DX6i DSM X Sender ohne Empfänger MD2	DX6i émetteur seul, mode 2 Int'l	DX6i solo trasmettitore Mode 2 Int'l
SPMR66101E	DX6i Transmitter Only Mode 1 Int'l	Spektrum DX6i DSM X Sender ohne Empfänger MD1	DX6i émetteur seul, mode 1 Int'l	DX6i solo trasmettitore Mode 1 Int'l
SPMR8800	DX8 Transmitter Only Mode 2	Spektrum DX8 nur Sender Mode 2 (1-4)	DX8 émetteur seul, mode 2	DX8 solo trasmettitore Mode 2
SPMR8800EU	DX8 Transmitter Only Mode 2 Int'l	Spektrum DX8 nur Sender Mode 2 (1-4) EU	DX8 émetteur seul, mode 2 Int'l	DX8 solo trasmettitore Mode 2 Int'l
SPMR88001AU	DX8 Transmitter Only Mode 1 AU	Spektrum DX8 nur Sender Mode 1 AU	DX8 émetteur seul, mode 1 AU	DX8 solo trasmettitore Mode 1 AU
SPMR88001EU	DX8 Transmitter Only Mode 1 Int'l	Spektrum DX8 nur Sender MD1	DX8 émetteur seul, mode 1 Int'l	DX8 solo trasmettitore Mode 1 Int'l

**– Parts Contact Information –**  
**– Intaktinformationen für Ersatzteile –**  
**– Coordonnés pour obtenir de pièces détachées –**  
**– Recapiti per i ricambi –**

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States	Sales	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	800-338-4639 sales@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS, United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Hobby GmbH	Hamburger Str. 10 25335 Elmshorn, Germany	+49 4121 46199 60 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com

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US D578,146. PRC ZL 200720069025.2. US 7,898,130 Other patents pending.

[www.e-fliterc.com](http://www.e-fliterc.com)

