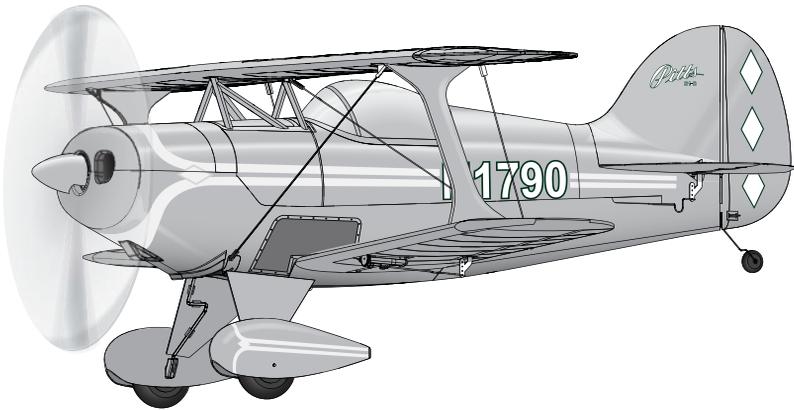




UMX™ Pitts® S-1S



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

AS3X®

E-flite®
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 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, 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.

Safety Precautions and Warnings

- 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 the 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.

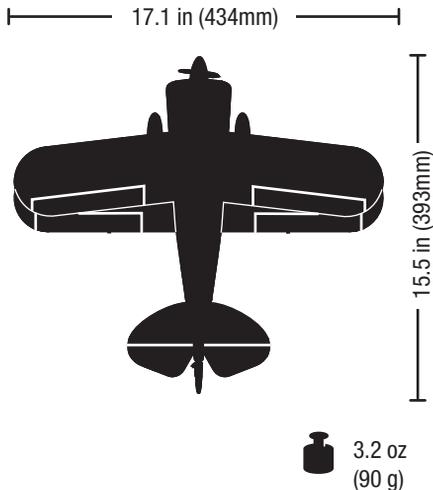
Thank you for purchasing the E-flite® UMX™ Pitts® S-1S ultra micro airplane. Despite its size, this model has been engineered to deliver a potent scale model that handles great. Molded lightweight foam construction makes it possible for the high-output brushless power system installed to provide quick acceleration and strong vertical climbs. Four performance linear long-throw servos provide precision control. But what truly makes this go-anywhere biplane special is the remarkable AS3X® system that's been specially tuned to give you the feeling of flying a much larger model. AS3X stability works especially hard so even when wind conditions are moderate, you experience the kind of smooth flight that makes you want to fly more often.

A thorough read of this manual will help assure that you're well equipped to successfully enjoy all the benefits this outstanding ultra micro model has to offer.

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Specifications



Installed



Motor: 180BL 3000Kv Brushless Outrunner (EFLUM180BLB)



Receiver: Spektrum™ 6-Ch AS3X® Receiver with BL ESC (SPMAS6410NBL)



(4) 2.3-Gram Performance Linear Long Throw Servo (SPMSA2030L)

Needed to Complete



Recommended Battery: 200mAh 2S 7.4V 25C Li-Po, 26AWG (EFLB2002S25)



Recommended Battery Charger: Celectra™ 2S 7.4V DC Li-Po Charger (EFLUC1007)



Recommended Transmitter: Spektrum™ DSM2®/DSMX® full range with dual-rates (DX4e and up)

Preflight Checklist

| ✓ | |
|----|--|
| 1. | Charge flight battery. |
| 2. | Install flight battery in aircraft (once it has been fully charged). |
| 3. | Bind aircraft to transmitter. |
| 4. | Make sure linkages move freely. |
| 5. | Perform Control Direction Test with transmitter. |

| ✓ | |
|-----|--|
| 6. | Set dual rates and expos. |
| 7. | Adjust center of gravity. |
| 8. | Perform a radio system Range Check. |
| 9. | Find a safe and open area. |
| 10. | Plan flight for flying field conditions. |

AS3X Stabilization Delivers Breakthrough Performance

Horizon Hobby has always made RC sport, scale and unique aircraft with the kind of performance experts appreciate. Now the exclusive Artificial Stability – 3 aXis (AS3X) system helps take performance expectations in ultra micro aircraft a quantum leap higher.

Based on the successful use of MEMS sensor technology within the AS3X Stabilization System essential to Blade® ultra micro flybarless helicopters, the specifically tuned AS3X System for airplanes helps invisibly correct for turbulence, torque and tip stalls when encountered.

Furthermore, the outstanding control agility delivers an ultra smooth, locked-in feel that obeys your every command with performance that's natural feeling. It's so gratifying, in fact, that it's as though you're the RC pilot of an expertly tuned, giant-scale model.

AS3X will change the way you'll want to fly now and in the future. To see what we mean, go to www.E-fliteRC.com/AS3X.

Low Voltage Cutoff (LVC)

When a Li-Po battery is discharged below 3V per cell, it will not hold a charge. The aircraft's ESC protects the flight battery from over-discharge using Low Voltage Cutoff (LVC). Once the battery discharges to 3V per cell, the LVC will reduce the power to the motor in order to leave adequate power to the receiver and servos to land the airplane.

When the motor power decreases, land the aircraft immediately and replace or recharge the flight battery.

Always disconnect and remove the Li-Po battery from the aircraft after each flight. Charge your Li-Po battery to about half capacity before storage. Make sure the battery charge does not fall below 3V per cell. Failure to unplug a connected battery will result in trickle discharge.

For your first flights, set your transmitter timer or a stopwatch to 5 minutes. Adjust your timer for longer or shorter flights once you have flown the model.

NOTICE: Repeated flying to LVC will damage the battery.

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.

Any full range Spektrum DSM2/DSMX transmitter can bind to the DSM2/DSMX receiver. Please visit www.bindnfly.com for a complete list of compatible transmitters.

✓ Binding Procedure

⚠ 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. Refer to your transmitter's unique instructions for binding to a receiver (location of transmitter's Bind control). |
| | 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 the transmitter controls are neutral and the 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 turn solid, indicating that the receiver is bound to the transmitter. If the LED does not turn solid, refer to the Troubleshooting Guide at the back of the manual. |

ESC/Receiver Arming, Battery Installation and Center of Gravity

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

Arming the ESC/receiver also occurs after binding as previously described, but subsequent connection of a flight battery requires the following steps.

AS3X

The AS3X® system will not **activate** until the throttle stick or trim is increased for the first time. Once active, the control surfaces may move rapidly and noisily on the aircraft. This is normal. AS3X technology will remain active until the battery is disconnected.

1. Remove the battery hatch from the fuselage.
2. Attach the battery to the hook and loop strip so the battery is against the motor mount.

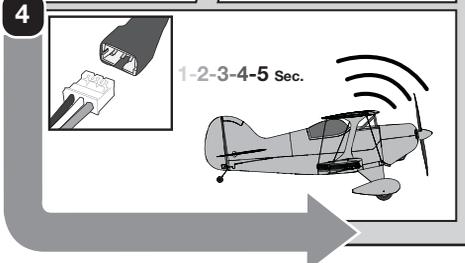
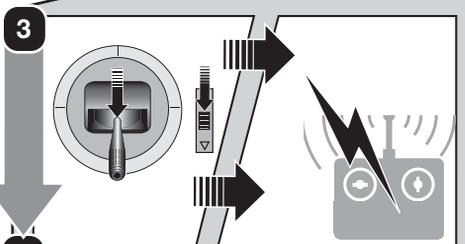
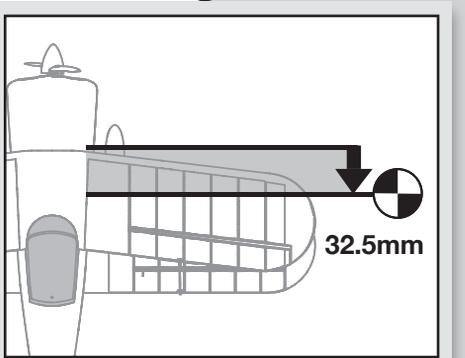
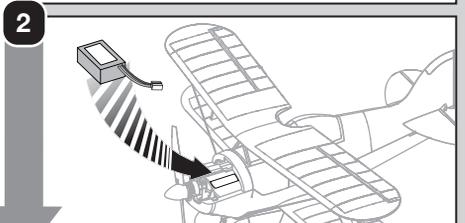
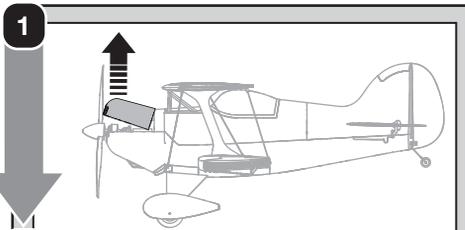
Center of Gravity (CG)

At the wing root, measure the CG location **32.5mm** back from the forward-most leading edge of the top wing.

3. Lower the throttle and throttle trim to the lowest settings on your transmitter. Power on your transmitter, then wait 5 seconds.
4. Connect the battery to the ESC, noting proper polarity. Keep the plane immobile and away from wind for 5 seconds to allow the AS3X system to initialize. A series of tones and a continuous LED indicates a successful connection.

CAUTION: Always disconnect the Li-Po battery from the ESC when not flying to eliminate power supplied to the motor. The ESC does not have an arming switch and will respond to any transmitter input when a signal is present.

CAUTION: Always disconnect the Li-Po battery from the ESC when not flying to avoid over-discharging the battery. Batteries discharged to a voltage lower than the lowest approved voltage may become damaged, resulting in loss of performance and potential fire when batteries are charged.



Control Direction Test

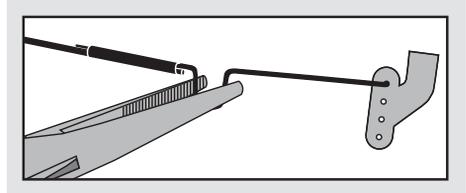
You should bind your aircraft and transmitter before doing these tests. Move the controls on the transmitter to make sure the aircraft control surfaces move correctly and in the proper direction.

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

Control Centering

Before the first flights, or in the event of an accident, make sure the flight control surfaces are centered. Adjust the linkages mechanically if the 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 the control surfaces are neutral when the transmitter controls and trims are centered. The transmitter sub-trim must always be set to zero.
2. When needed, use a pair of pliers to carefully bend the metal linkage (see illustration).
3. Make the U-shape narrower to make the connector shorter. Make the U-shape wider to make the linkage longer.



Centering Controls After First Flights

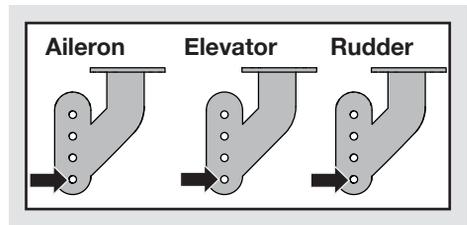
For best performance with AS3X, it is important that excessive trim is not used. If the aircraft requires excessive transmitter trim (4 or more clicks of trim per channel), return the transmitter trim to zero and adjust the linkages mechanically so that the control surfaces are in the flight trimmed position.

Control Horn Settings

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

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

CAUTION: 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

To obtain the best flight performance, we recommend using a DSM2/DSMX radio capable of adjustable Dual Rates. The suggested settings shown here are the recommended starting settings. Adjust according to the individual preferences after the initial flight.

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, it will overdrive the servo and cause damage.

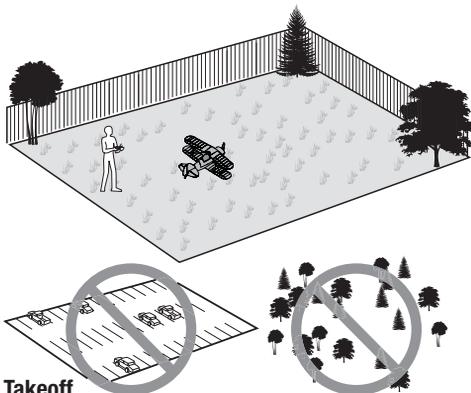
It is normal for linear servos to make significant noise. The noise is not an indication of a faulty servo.

| | Dual Rate | |
|----------|-----------|-----|
| | High | Low |
| Aileron | 100% | 70% |
| Elevator | 100% | 70% |
| Rudder | 100% | 70% |

Tip: For the first flight, fly the model in low rate.

Flying Tips and Repairs

We recommend flying your aircraft outside in calm conditions. 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.



Takeoff

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

Landing

Land into the wind. This is very important for this model. Fly the aircraft to approximately 6 inches (15cm) or less above the runway, using a small amount of throttle for the entire descent. Keep the throttle on until the aircraft is ready to flare. During flare, keep the wings level and the airplane pointed into the wind. Gently lower the throttle while pulling back on the elevator to bring the aircraft down on all three wheels.

Post Flight Checklist

| ✓ | |
|----|--|
| 1. | Disconnect the flight battery from the ESC (Required for safety and battery life). |
| 2. | Power OFF the transmitter. |
| 3. | Remove the flight battery from the aircraft. |
| 4. | Recharge the flight battery. |

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.

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



NOTICE: Crash damage is not covered under the warranty.

Repairs

Repair the aircraft using foam-compatible CA (cyanoacrylate adhesive) or clear tape. **Only use foam-compatible CA**, as other types of glue can damage the foam. 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 foam-compatible CA accelerant on your aircraft can damage paint. DO NOT handle the aircraft until the accelerant fully dries.

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 foam.

| ✓ | |
|----|--|
| 5. | Store the flight battery apart from the aircraft and monitor the battery charge. |
| 6. | Make note of the flight conditions and flight plan results, planning for future flights. |

Power Components Service

Disassembly



CAUTION: DO NOT handle the propeller while the flight battery is connected to the ESC. Personal injury could result.

Propeller

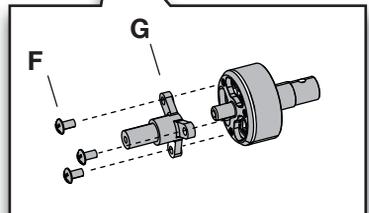
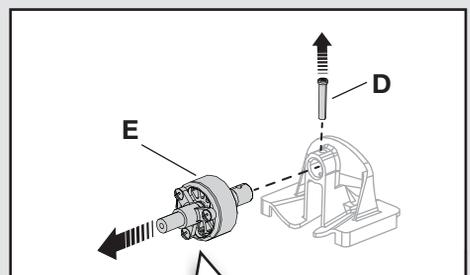
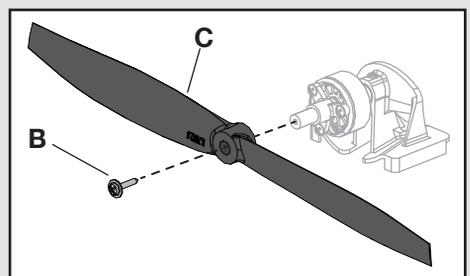
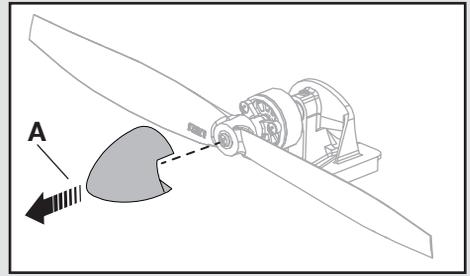
1. Remove the spinner (A) from the propeller.

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.

2. Carefully remove the screw (B) and propeller (C) from the motor shaft.

Motor

1. Remove the battery hatch by gripping the front of the hatch, then pulling it up and away from the fuselage.
2. Disconnect the motor wire connector from the ESC/receiver connector.
3. Remove the screw (D) and motor (E) from the motor mount.
4. Remove 3 screws (F) and the prop adapter (G) from the motor. The motor magnet may attract screws to the motor.



Assembly

Assemble in reverse order.

- Connect the motor wire connector to the ESC/receiver.
- The propeller size numbers (5.75x2.25) must face out from the motor for correct propeller operation.
- Ensure the propeller adapter and motor mount are fully connected to the motor.

Troubleshooting Guide

| AS3X | | |
|---|--|--|
| Problem | Possible Cause | Solution |
| Control surfaces not at neutral position when transmitter controls are at neutral | Control surfaces may not have been mechanically centered from factory | Center control surfaces mechanically by adjusting the U-bends on control linkages |
| | Aircraft was moved after the flight battery was connected and before sensors initialized | Disconnect and reconnect the flight battery while keeping the aircraft still for 5 seconds |
| Model flies inconsistently from flight to flight | Aircraft was not kept immobile for 5 seconds after battery was plugged in | Keep the aircraft immobile for 5 seconds after plugging in the battery |
| | Trims are moved too far from neutral position | Neutralize trims and mechanically adjust linkages to center control surfaces |
| Controls oscillate in flight, (model rapidly jumps or moves) | Propeller is unbalanced, causing excessive vibration | Remove propeller and rebalance or replace it if damaged |
| | Prop screw is too loose, causing vibration | Tighten the prop screw |

| 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 |
| | Prop is out of balance | Remove and balance propeller, or replace with a balanced propeller |
| 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 |
| | 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 |

Troubleshooting Guide (Continued)

| Problem | Possible Cause | Solution |
|--|---|--|
| 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 |
| | Transmitter may have been bound to a different model (or with a different DSM Protocol) | Select the right transmitter or bind to the new one |
| | Aircraft or transmitter is too close to large metal object, wireless source or another transmitter | Move aircraft and transmitter to another location and attempt linking again |
| 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 | 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 |

Limited Warranty

What this Warranty Covers

Horizon Hobby, Inc. ("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.

Warranty and Service Information

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

Compliance Information for the European Union

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)
No. HH2014021501



Product(s): EFL UMX S-1S Pitts BNF
Item Number(s): EFLU5250
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 and LVD Directive 2006/95/EC:

EN 301 489-1 V1.9.2: 2012
EN301 489-17 V2.1.1: 2009

EN60950-1:2006+A11:2009+A1:2010+A12: 2011

EN55022:2010 + AC:2011
EN55024:2010

Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
Feb 15, 2014

Robert Peak
Chief Financial Officer
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 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.

Replacement Parts – Ersatzteile – – Pièces de rechange – Pezzi di ricambio –

| Part # • Nummer Numéro • Codice | Description | Beschreibung | Description | Descrizione |
|------------------------------------|---|--|---|---|
| EFLU5265 | Decal Set: UMX Pitts S-1S | Dekorbogen: UMX Pitts S-1S | Set de décoration: UMX Pitts S-1S | Set adesivi: UMX Pitts S-1S |
| EFLU5251 | Spinner Set (3): UMX Pitts S-1S | E-flite UMX Pitts S-1S: Spinner Set | Cônes (3) : UMX Pitts S-1S | Set ogiva (3): UMX Pitts S-1S |
| EFLU5255 | Landing Gear Set w/ Wheel Pants: UMX Pitts S-1S | E-flite UMX Pitts S-1S: Fahrwerk m. Radschuhe | Train d'atterrissage avec carénages de roues : UMX Pitts S-1S | Set carrello con carenatura ruote: UMX Pitts S-1S |
| EFLU5261 | Interplane Strut Set: UMX Pitts S-1S | E-flite UMX Pitts S-1S: Tragflächenstreben | Set de haubans : UMX Pitts S-1S | Set montanti alari: UMX Pitts S-1S |
| EFLU5259 | Wing Set: E-flite UMX Pitts S-1S | E-flite UMX Pitts S-1S: Tragflächen | UMX UMX Pitts S-1S -Aile | Ala: UMX Pitts S-1S |
| EFLU5260 | Tail Set w/ Accessories: UMX Pitts S-1S | E-flite UMX Pitts S-1S: Leitwerk Set mit Zubehör | UMX Pitts S-1S -Set d'empennage | Set coda c/Acc: UMX Pitts S-1S |
| FLU5262 | Battery Hatch: UMX Pitts S-1S | E-flite UMX Pitts S-1S: Akkuklappe | Trappe à batterie : UMX Pitts S-1S | Portello batteria: UMX Pitts S-1S |
| EFLU5246 | Pushrod/Wing Brace Set: UMX Pitts S-1S | E-flite UMX Pitts S-1S: Gestänge / Tragflächenhalter | Set de tringleries : UMX Pitts S-1S | Set aste/fissaggi ala: UMX Pitts S-1S |
| EFLU5030 | Motor Mount: UMX Yak 54 180 | E-flite UMX Yak 54 180: Motorhalter | UMX Yak 54 180 - Support moteur | Supporto motore: UMX Yak 54 180 |
| EFLU5258 | Fuselage w/Cabane and Hatch: UMX Pitts S-1S | E-flite UMX Pitts S-1S: Rumpf m. Haube | Fuselage avec cabane et trappe : UMX Pitts S-1S | Fusoliera con cabana e portello: UMX Pitts S-1S |
| EFLU5270 | Ultra Micro 1/14th Scale Aerobatic Pilot | Ultra Micro 1/14th Scale Aerobatik Pilot | Pilote de voltige pour Ultra Micro 1/14 | Ultra Micro Pilota Acrobatico in scala 1/14 |
| EFLUP575225 | 5.75x2.25 Electric Propeller: UMX Yak 54 | 5.75x2.25: UMX Yak 54 | 5.75x2.25 Hélice électrique: UMX Yak 54 | Elica 5.75x2.25: UMX Yak 54 |
| EFLU4067 | Prop Adapter: UMX Beast | Eflite Propeller Adapter: UMX Beast | Adaptateur d'hélice: UMX Beast | Adattatore elica: UMX Beast |
| EFLUM180BLB | 180 Brushless Outrunner Motor 3000Kv | BL180 Brushless Außenläufer Motor 3000 kv | Moteur brushless à cage tournante 180 3000kv | 180 Motore brushless cassa rotante 3000KV |
| SPMAS6410NBL | Spektrum 6 Ch AS3X Receiver w/ BL ESC | Spektrum 6 Kanal AS3X Empfänger m. BL Regler | Module Spektrum 6 voies Rx/ESC/AS3X | Ricevitore Spektrum 6 CH AS3X con ESC BL |
| SPMSA2030L | 2.3-Gram Performance Linear Long Throw Servo | 2,3 Gramm Hochleistungs - Linear Servo mit langem Ruderweg | Servo 2.3g linéaire longue course performant | Ottimo servo lineare a corsa lunga da 2,3 Grammi |
| SPM6836 | Replacement Servo Mechanics: 2.3-Gram 2030L | Ersatzservomechanik 2,3 Gramm 2030L | Pièces de rechange mécaniques servo : 2,3 g 2030 L | Componenti meccanici di ricambio del servo: 2030L da 2,3 grammi |

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

| Part # • Nummer Numéro • Codice | Description | Beschreibung | Description | Descrizione |
|------------------------------------|---|---|--|---|
| PKZ1039 | Hook and Loop Set (5): Ultra Micros | Parkzone: Klettband Set Ultra Micros | Ultras Micros - Bande auto-agrippante (5) | Set fascette a strappo (5): Ultra Micro |
| EEFLB2002S25 | 2S 7.4V 200mAh 25C Li-Po Battery | 2S 7.4V 200mAh 25C Li-Po Akku | Batterie Li-Po 7.4V 2S 25C 200mA | 2S 7.4V 200mAh 25C Li-Po Batteria |
| EEFLB2002S30 | 2S 7.4V 200mAh 30C Li-Po Battery | 2S 7.4V 200mAh 30C Li-Po Akku | Batterie Li-Po 7.4V 2S 30C 200mA | 2S 7.4V 200mAh 30C Li-Po Batteria |
| EEFLB1502S45 | 2S 7.4V 150mAh 45C Li-Po Battery | 2S 7.4V 150mAh 45C Li-Po Akku | Batterie Li-Po 7.4V 2S 45C 150mA | 2S 7.4V 150mAh 45C Li-Po Batteria |
| 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 |
| EFLUC1008 | DC Power Cord: UMX Beast | DC Ladekabel UMX Beast | Alimentation DC | DC Cavo alimentazione: UMX Beast |
| EFLA700UM | Charger Plug Adapter: EFL | Ladekabel Adapter EFL | Prise d'adaptation chargeur: EFL | Adattatore connettore caricabatterie: EFL |
| EFLA7001UM | Charger Plug Adapter: Thunder Power | Ladekabel Adapter Thunder Power | Prise d'adaptation chargeur: Thunder Power | Adattatore connettore caricabatterie: Thunder Power |
| EFLU4068 | Harness Adapter: UMX Beast | E-flite UMX Beast Y-Kabel | Adaptateur de câblage: UMX Beast | Adattatore collegamenti: UMX Beast |
| EFLC4000/UK/AU/EU | AC to 12V DC, 1.5 Amp Power Supply (Based upon your sales Region) | Netzteil 12V 1,5 A (Basierend nach Vertriebsregion) | Alimentation CA vers 12V CC, 1,5 A (En fonction de votre région) | Alimentatore CA - 12V CC da 1,5 A (in base al Paese di vendita) |
| | DX5e DSMX 5-Channel Transmitter | DX5e DSMX 5-Kanal Sender | Emetteur DX5e DSMX 5 voies | DX5e DSMX Trasmettitore 5 canali |
| | DX6i DSMX 6-Channel Transmitter | DX6i DSMX 6-Kanal Sender | Emetteur DX6i DSMX 6 voies | DX6i DSMX Trasmettitore 6 canali |
| | DX7s DSMX 7-Channel Transmitter | Spektrum DX7s 7 Kanal Sender | Emetteur DX7s DSMX 7 voies | DX7s DSMX Trasmettitore 7 canali |
| | DX8 DSMX Transmitter | Spektrum DX8 nur Sender | Emetteur DX8 DSMX 8 voies | DX8 DSMX Solo trasmettitore |
| | DX9 DSMX Transmitter | Spektrum DX9 nur Sender | Emetteur DX9 DSMX 9 voies | DX9 DSMX Solo trasmettitore |
| | DX18 Transmitter | Spektrum DX18 nur Sender | Emetteur DX18 DSMX 9 voies | DX18 DSMX Solo trasmettitore |

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