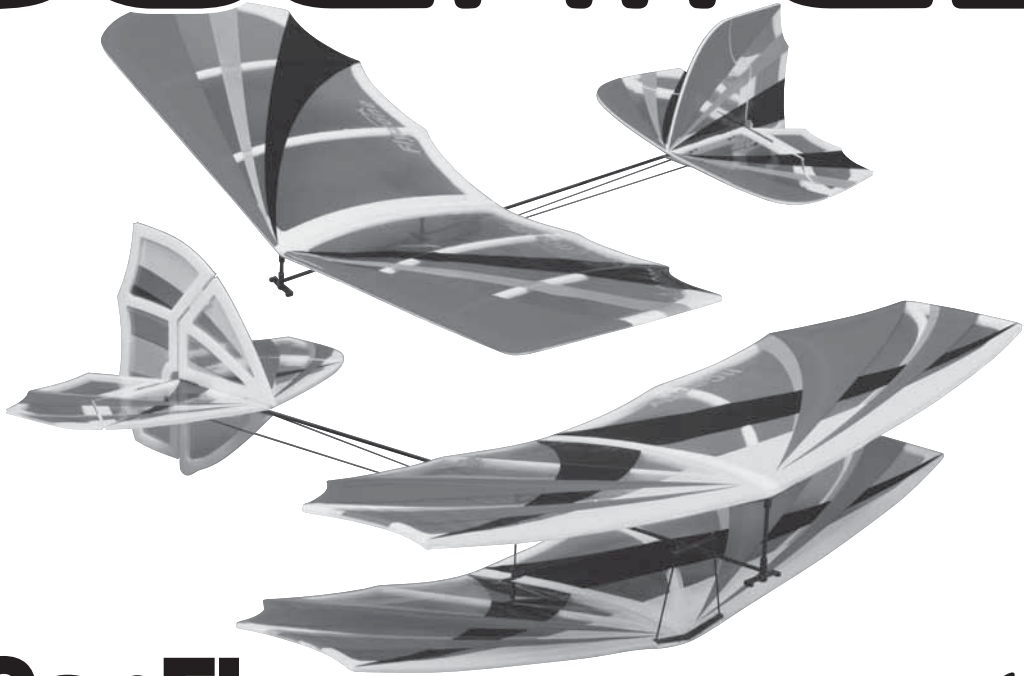


überlites™



ItCanFly™
Modular Aircraft

Flyzone™
how high will you soar™

ASSEMBLE ONLY WITH ADULT SUPERVISION

Please read through this instruction booklet to **THOROUGHLY** familiarize yourself with the assembly and flight characteristics of this airplane prior to assembly. Please inspect all parts carefully before starting assembly! If any parts are missing, broken or defective, or if you have any questions about the assembly or flying of this airplane, please call us at (217) 398-8970 and we'll be glad to help.

This product is suitable only for people of 14 years and older.

WARRANTY

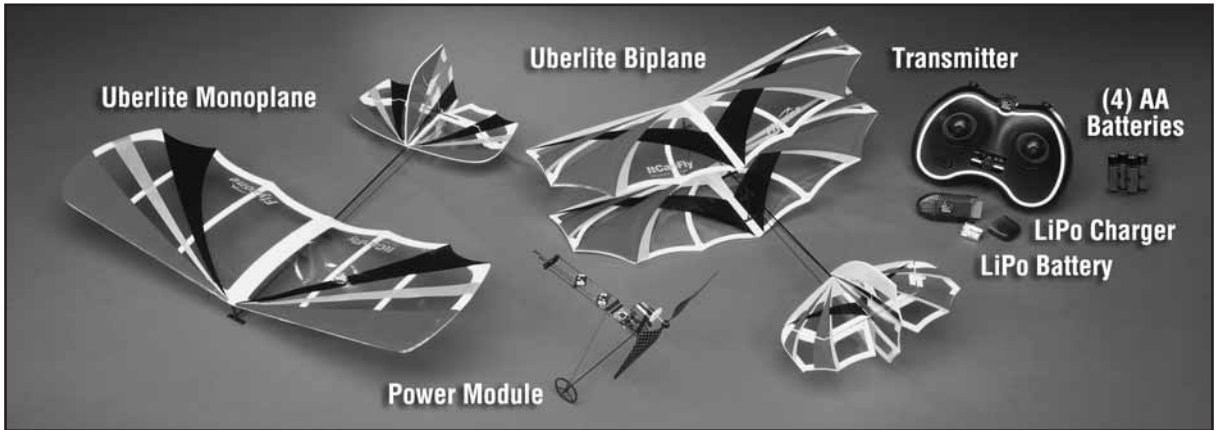
Hobbico® Inc. guarantees this kit to be free from defects in both material and workmanship at the date of purchase. This warranty does not cover any component parts damaged by use or modification. **In no case shall Hobbico's liability exceed the original cost of the purchased kit.** Further, Hobbico, Inc. reserves the right to change or modify this warranty without notice. In that Hobbico, Inc. has no control over the final assembly or material used for final assembly, no liability shall be assumed nor accepted for any damage resulting from the use by the user of the final user-assembled product. By the act of using the user-assembled product, the user accepts all resulting liability. **If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately in new and unused condition to the place of purchase.** To make a warranty claim send the defective part or item to Hobby Services at the address below:

Hobby Services

3002 N. Apollo Dr. Suite 1
Champaign IL 61822 USA

Include a letter stating your name, return shipping address, as much contact information as possible (daytime telephone number, fax number, e-mail address), a detailed description of the problem and a photocopy of the purchase receipt. Upon receipt of the package, the problem will be evaluated as quickly as possible.

INCLUDED ITEMS



Check the parts against those shown. If any parts are damaged or missing, please call Hobby Services at: (217) 398-8970

FCC AND ETSI

FCC REQUIREMENT 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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

Instructions for Disposal of Waste Equipment by Private Users in the European Union: This symbol on the product or its packaging indicates this product must not be disposed of with other household 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 location where you purchased the product.



PRECAUTIONS

Your Uberlite 2-1 should not be considered a toy, but rather a sophisticated, working model that functions very much like a full-size airplane. Because of its performance capabilities, the Uberlite, if not assembled and operated correctly, could possibly cause injury to yourself or spectators and damage to property.

1. Operate the plane **according to the instructions**. **DO NOT** alter or modify the model. If you make any modifications, you void your warranty.
2. **Test** the operation of the model **before each flight** to ensure that all equipment is operating properly and that the model remains structurally sound.
3. Fly indoors or outdoors only on very calm days and in large open areas free of trees, people, buildings, or any other obstacles.
4. Although the Uberlite is designed to be successfully flown by the first time pilot, you may still benefit from the assistance of an experienced pilot for your first flights. If you're not a member of an R/C club, your local hobby shop has information about clubs in your area whose membership includes experienced pilots. You can also contact the National Academy of Aeronautics (AMA) which has over 2,500 chartered clubs across the country. Instructor training programs and insured newcomer training are available through any of these clubs. Contact the AMA at the following address or toll-free phone number:

Academy of Model Aeronautics

5151 East Memorial Drive
Muncie, IN 47302-9252

Ph. (800) 435-9262
Fx. (765) 741-0057

www.modelaircraft.org

The R/C model hobby becomes more and more enjoyable as your experience grows. Your chances for success and graduation to higher levels are very good if you take your time and follow the flying instructions carefully and completely. We hope you enjoy flying your Uberlite plane.

BATTERY CHARGING PRECAUTIONS

WARNING!! Failure to follow all instructions could cause permanent damage to the battery and its surroundings, and cause bodily harm!

- 1. Always remove the battery from your Uberlite before charging.
- 2. Do not leave a charging battery unattended! Unplug the battery if it gets warm, even if the charge LED has not gone out.
- 3. Use only the charger that comes with your Uberlite!

WARNING: Misuse or malfunction may overheat the battery and charger, resulting in personal injury or damage to surroundings.

- ALWAYS charge in a fireproof location.
- NEVER allow battery temperature to exceed 150°F [65°C].
- NEVER disassemble or modify pack wiring in any way or puncture cells.
- NEVER place on combustible materials or leave unattended during charge or discharge.
- ALWAYS KEEP OUT OF REACH OF CHILDREN.

LITHIUM POLYMER BATTERY RECYCLING



ATTENTION: The product you have purchased is powered by a rechargeable battery. At the end of the battery's useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste system.

Check with your local solid waste officials for details in your area for recycling options or proper disposal.

WARNING: This product contains a chemical known to the State of California to cause cancer.

LIPO BATTERY CAUTION:

Do not allow the magnetic terminals on the LiPo battery to contact any surface besides the included charger and flight module!

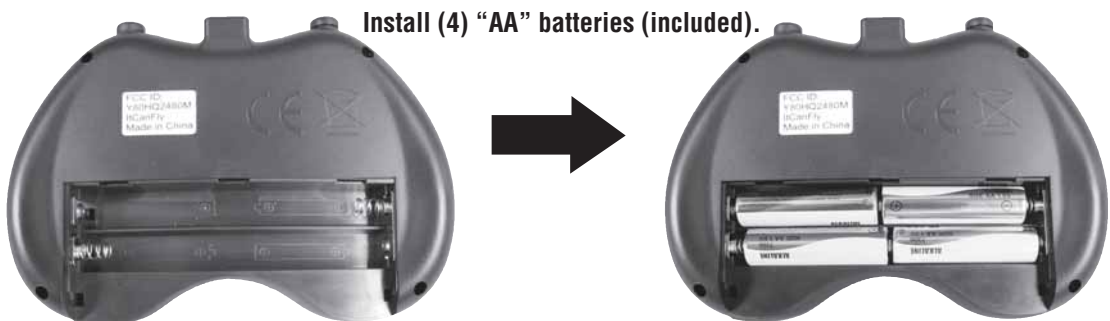
TRANSMITTER CAUTIONS

- Do not use rechargeable batteries.
- Do not mix old and new batteries.
- Do not mix alkaline and non-alkaline batteries.

GLOSSARY

- **Lithium Polymer (LiPo) Battery:** Rechargeable battery which is used to power the airplane. LiPo batteries are lighter and smaller than most other types of rechargeable batteries.
- **Transmitter (TX):** This is the hand-held unit that sends the signal to the control unit, or receiver (RX).
- **Receiver (RX):** This is part of the power module that responds to input from the transmitter.
- **Rudder:** The flight control on the airplane that controls turning direction. This will yaw the plane so that the nose points in toward the direction of the turn and will cause the wings to roll into the turn.
- **Elevator:** The flight control that controls pitch attitude. By adding power and pitching up, you can make the model climb or loop.
- **Center of Gravity (C.G.):** Point at which the aircraft must balance in order to fly properly.
- **Glide Slope:** The proper path for an airplane approaching a landing strip.
- **Binding Button (or Trim Reset Button):** Binding is a dedicated relationship between a 2.4GHz transmitter and receiver, in which the receiver responds to input from the transmitter. Once this relationship is established the units are bound. The binding button may also be used to reset the elevator and rudder to the original position established when the module is installed on the airframe (not recommended during flight). It is recommended to use the Binding Button when changing airframes.

PREPARE THE TRANSMITTER

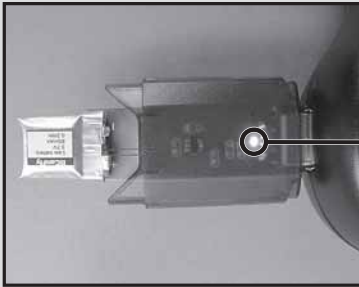
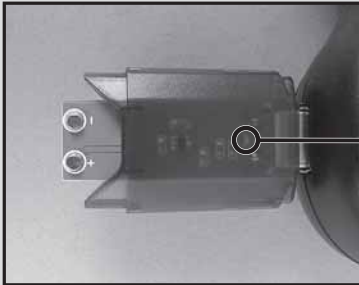


CHARGE THE INCLUDED LIPO BATTERY

Do not use the charge feature while flying the Uberlite!

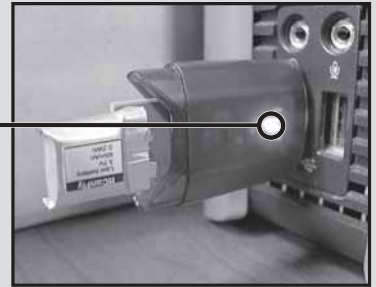
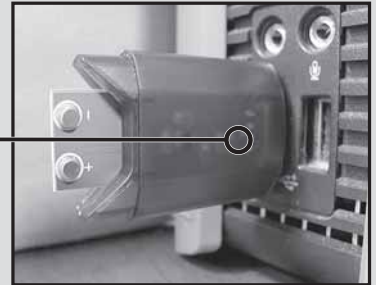


USB port on transmitter



OR

USB port on alternative source



Plug charger into USB socket. A very small, blinking red light should appear.

Place battery on charge terminals. A large, solid red light will appear, indicating charging. When the light turns off, charging is complete. Remove the battery from the charger and the charger from the power source. Replace the caps on the charger.

POWER THE TRANSMITTER

Keep the left control stick in the minimum position during set up.

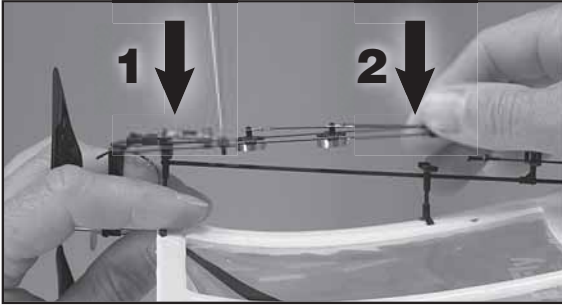
Illuminated red light indicates the transmitter is powered and transmitting.

The MIX dial should be in position 2 to operate the Uberlite Monoplane and Biplane. Position 0 is required to operate the optional flying wing.

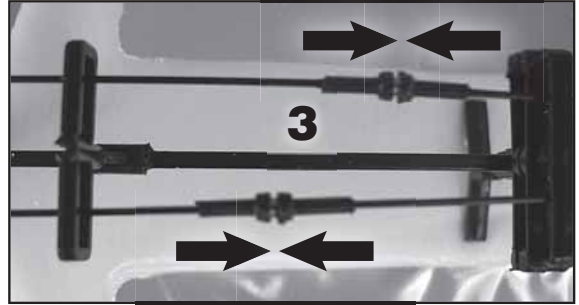


PREPARE THE UBERLITE FOR FLIGHT

Keep hands clear of propeller during power battery installation and removal.



Place the Power Module in the under carriage of the fuselage. Magnets hold the module in place.



Make sure elevator & rudder linkages are connected.



CAUTION!
The propeller is ARMED! If the left control stick is moved above the minimum position the propeller will operate.

With the transmitter powered, place the battery on the power magnets on the under side of the Power Module.

RECEIVER LED GUIDE

Constant illumination	▶ Normal operation
Blinks rapidly for 3 seconds, then solid illumination	▶ Frequency locking stage (at power-up)
Blinks slowly (rate of 1 blink/second)	▶ Receiver lost signal or frequency-lock failure
Blinks (rate of 2 blinks/second)*	▶ Low LiPo voltage (<2.9V) protection (motor will turn off, actuators still on)

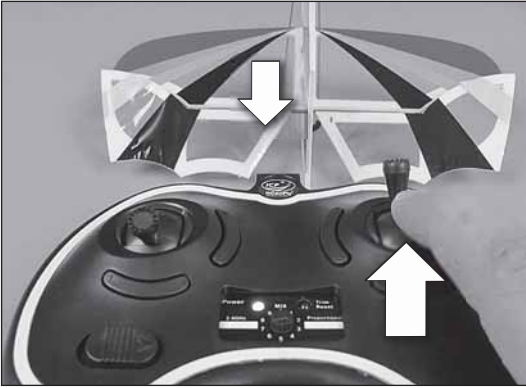
*** AT THIS POINT, DO NOT ATTEMPT TO OPERATE. REMOVE LIPO AND RECHARGE.**

BINDING THE TRANSMITTER

The Uberlite 2-in-1 transmitter and module-mounted receiver are bound at the factory. If the receiver does not respond after you switch on your transmitter and attach the charged LiPo battery to the power module, then follow these steps.

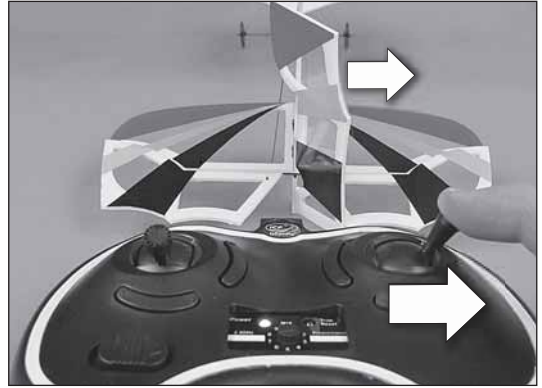
1. Turn off the transmitter and remove the battery from the module.
2. While holding down the Binding Button, switch the transmitter back on and release the Binding Button once the red LED flashes.
3. Install the battery to the power module.
4. Once the LEDs on the module and transmitter are solidly illuminated, the system is now bound.

CHECK THE CONTROL SURFACE DIRECTION



Right stick moves up, elevator moves down causing the aircraft's nose to pitch down, losing altitude.

Conversely, right stick moves down, elevator moves up causing the aircraft's nose to pitch up, gaining altitude.



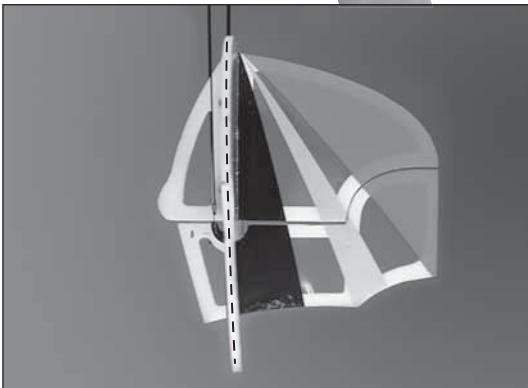
Right stick moves right, rudder moves right, causing the aircraft to turn to the right.

Conversely, right stick moves left, rudder moves left, causing the aircraft to turn to the left.

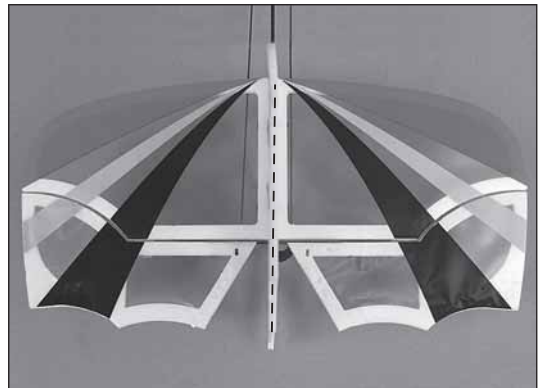
CENTER THE CONTROL SURFACE DIRECTION



◀	TRIM ADJUSTMENT	▶
Full left	Centered	Full right
Constant «beep»	Low tone	Constant «beep»

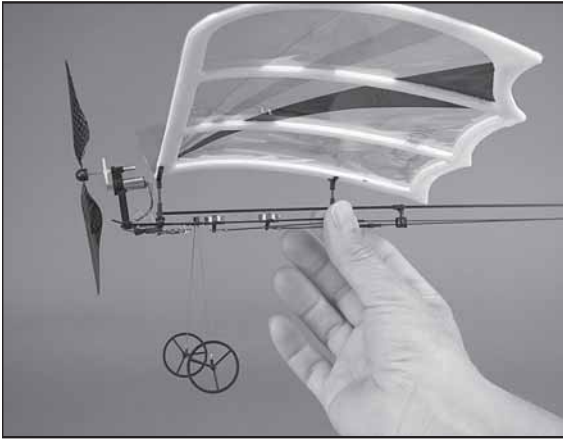


Elevator is centered.

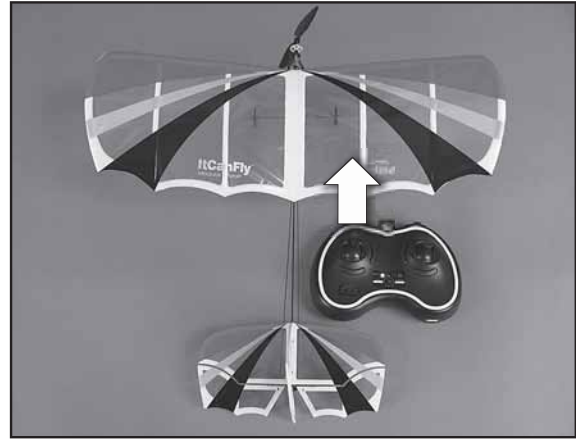


Rudder is centered.

TEST THE PROPELLER



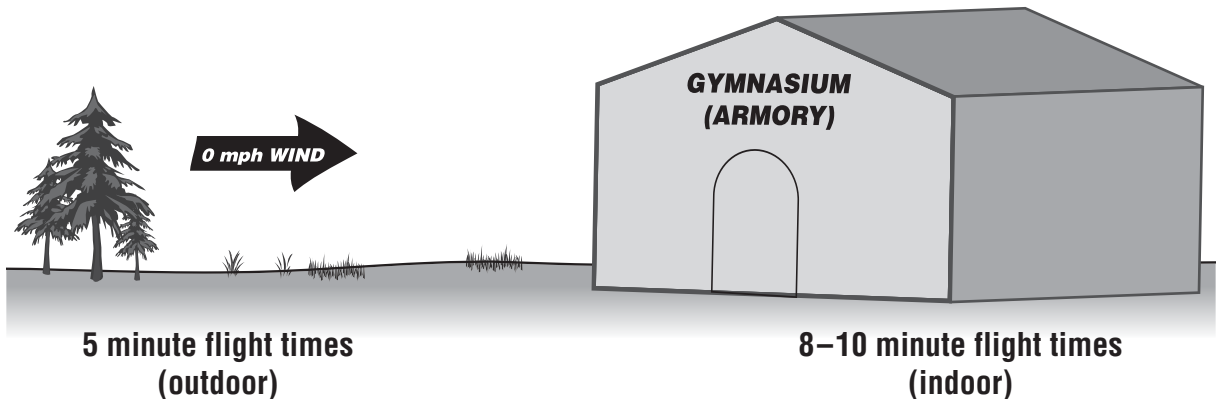
With hands and onlookers clear, position yourself behind the aircraft. Hold the aircraft or have an assistant hold the aircraft to prevent it from moving forward.



Test the operation of the propeller by raising the left stick.

Warning: The aircraft will be compelled to move forward if enough throttle is applied. Once you've made sure that full throttle can be achieved, you're ready for your first flight.

CHOOSE A FLYING SITE



RANGE CHECK

Before each flight, perform a range check to assure that the radio system is working properly. With the transmitter powered and the battery plugged into the Uberlite, walk at least 50' [15m] from the aircraft and check the control functions for proper operation.



FLYING THE UBERLITE BIPLANE AND MONOPLANE

Take off (or hand launch) and land heading into the wind. **The Uberlite will take off with ease at just 1/2 throttle and 3/4 up elevator throw.**

If any time during operation the controls or propeller become jammed or unresponsive, lower the power to the propeller, land and cycle the power on the Uberlite by removing & reinstalling the battery.

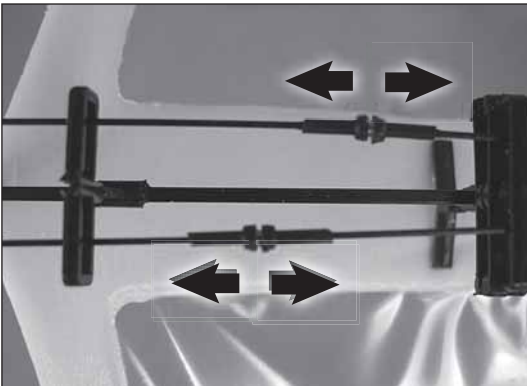
Once in the air, gain altitude to allow yourself sufficient reaction time to make a correction during flight. Once you're comfortable, adjust the rudder and elevator trims one click at a time so that the Uberlite flies straight and level with the control sticks centered. Concentrate on brief control stick inputs of rudder so that the Uberlite turns without causing the aircraft to roll. A slight amount of up elevator may be necessary to maintain altitude going into a turn and the elevator will need to be returned to neutral when coming out of a turn to avoid gaining altitude.

It's recommended that you attempt to land before the motor cuts out due to low voltage. Attempt to land into the wind by pitching the elevator up, slowing the descent and reducing the glide slope. Gradually reduce the throttle and just before touchdown apply some up elevator to land safely on the landing gear and tail skid. Un-power the model and switch off transmitter. Allow the motor to cool between flights.

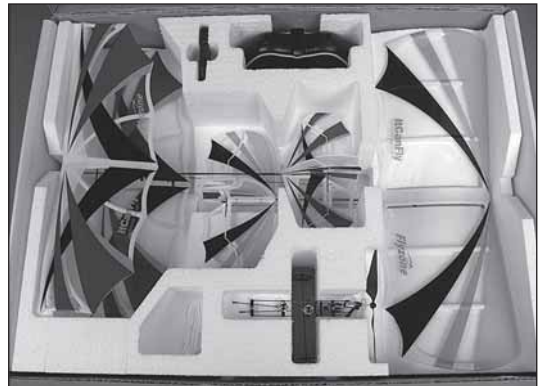


AFTER THE FLIGHT

Once the aircraft has landed, disconnect the battery from the Uberlite before turning off the TX. Allow the motor and battery to cool between flights and recharging.



Disconnect magnetic linkage before removing the Power Module from the Uberlite.



When finished, store the Uberlite components in its box to prevent damage.

REPLACEMENT PARTS

To order replacement parts for the Uberlite, use the order numbers in the list below. Replacement parts are available only as listed. Replacement parts are not available from Product Support, but can be purchased from hobby shops or mail order/Internet order firms. If you need assistance locating a dealer to purchase parts from, contact:

Product Support

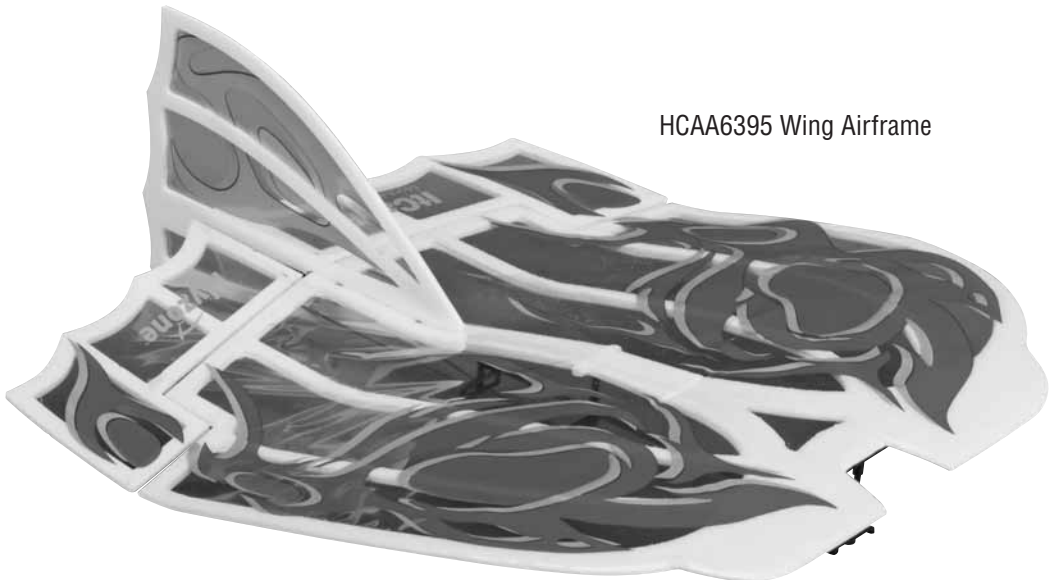
Phone: 217-398-0007

Fax: 217-398-7721

E-mail: productsupport@hobbico.com

Stock No.	Description
HCAA6396	Monoplane Airframe
HCAA6397	Biplane Airframe
HCAA6398	Complete Base Module
HCAA6399	Transmitter 2.4GHz
HCAA6400	USB LiPo Charger
HCAA6401	LiPo Battery 65mAh
HCAA6402	Carbon Fiber Prop
HCAA6403	Gearbox w/Motor
HCAA6404	Coreless Motor 6mm
HCAA6405	Magnetic Actuators 1G

OPTIONAL WING AIRFRAME



HCAA6395 Wing Airframe

notes

überlites



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