

BIXLER²

USER MANUAL

(KIT VERSION)



**HobbyKing**[®].com

**PLEASE READ THIS MANUAL CAREFULLY AND
FOLLOW THE INSTRUCTION**

Thank you for choosing this classic model airplane. This model is for beginner, intermediate and experienced hobby enthusiast. Hope you have a nice time with this wonderful model!!! Happy flying !

Disclaimer: *Do not fly this Airplane at full-throttle for long periods of time, recommended 20-25 seconds burst!*

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BIXLER2 SPECIFICATION

Design Features

1. Super stable flight performance;
2. High performance for gliding;
3. Large thrust ratio;
4. EPO makes it super crash resistant and impact
5. Optional flap design for customers .

Technical Parameter

Wingspan : 1500mm(59.06 inch)
Length : 963mm(37.91 inch)
Weight : 760g
ESC: 20A x1 (**Optional**)
Servo : 9g x 6
Radio : 6-channel
Motor : Brushless motor x 1(KV1300)
Battery : Li-po 11.1V 1800-2200 mah 15C

SAFETY INSTRUCTIONS

1. Do not fly in storms, strong winds, bad weather or lightning
2. NEVER FLY NEAR POWERLINES, overhead wires, roads, railroads or airports
3. Never fly near houses or people! Your BIXLER 2 can cause damage to property or injury!
4. Do not fly where other models on the same frequency are flying, until you do a preflight check of all your controls
5. Make sure you do a preflight check- inspect the whole plane and make sure the motor runs smoothly and all your controls work properly. Do this before EACH FLIGHT!
6. Use only genuine Duraflly replacement parts
7. Don't try to catch the BIXLER 2 during flight- you could be badly injured! Take off from and land on a suitable landing strip.
8. Not recommended for children under 12 years old. Children under 14 should operate the model only with a responsible adult.
9. The BIXLER 2 includes small parts (choking hazards) and sharp edges! Assemble and store your plane out of the reach of children.
10. Never install batteries incorrectly- check the polarity (positive and negative) before connecting or installing batteries
11. Keep your BIXLER 2 out of direct sunlight (unless you're flying it!) and away from heat sources. Foam can distort when it is overheated.
12. Fly intelligently-don't fly towards yourself or other people, or structures, cars, trees, animals, or anything else on the ground.

First Flight preparation

- Remove and inspect contents.
- Read this instruction manual thoroughly.
- Install the flight battery in the aircraft (Once it has been fully charged).
- Ensure pushrods move freely.
- Perform the Control Direction Test with the transmitter
- Find a safe and open area
- Plan flight for flying field conditions
- Adjust battery for center of gravity(CG)
- Perform a radio system Range Check
- Adjust flight controls and transmitter
- Find a safe and open area
- Plan flight for flying field conditions

Maintenance After Flying

- Disconnect flight battery from ESC (Required for Safety)
- Turn off transmitter
- Remove flight battery from aircraft
- Recharge flight battery
- Repair or replace all damaged parts
- Store flight battery apart from aircraft and monitor the battery charge
- Make note of flight conditions and flight plan results, planning for future flights

ASSEMBLY INSTRUCTIONS

This manual provides simple step by step assembly instructions. However, if this is your first plane, we recommend that you ask a fellow flier for some help putting your BIXLER 2 together. They will probably jump at the chance just to get a look at it!

WHAT'S IN THE BOX



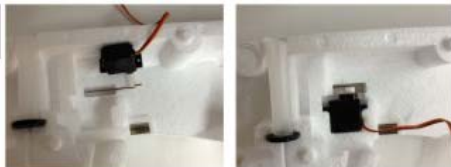
ASSEMBLY

1



Tighten 2 screws to fix the motor into the motor mount. Add glue on the foam place for the motor, wait a moment, then glue the motor mount on that foam place. Attention: When mounting the plastic motor mount please make sure that the slots are located at the bottom, this positioning is to ensure the proper motor thrust angle.

2



Insert the steel wire into the first hole of the servo arm.
Glue 2 servos on the fuselage. (elevator/rudder servos' wire length are :150mm)

3



Add glue on the edge of the fuse, wait a moment and glue the fuselage together.

4

4

Cut off the PVC parts with scissors, add glue on the inside edge of the PVC parts and glue them on the bottom of the fuselage. (please see the pictures)

5

Cut off the small PVC parts with scissors, add glue on the corresponding foam part and glue them on the bottom of the tail. (please see the pictures)

6

Add glue on the bottom groove of the fuselage. Wait a moment, put the carbon fiber tube into the groove.

7

Find the servo groove at the bottom of the main wing. Add glue on the corresponding place and glue the servos on the wing. (aileron servos' wire length:550mm, flap servos' wire length:300mm)

8

Insert the control horns into the corresponding place on the aileron. (please add glue when you insert it). Lock the horn from the upside of the aileron ,Take out the steel wire and install it into the second hole of the servo arm and control horn.

9

Add glue as shown in picture, wait for a while and put the horizontal wing into the right position of the tail .

10



In this portion of the assembly is the addition of the optional flap servo assembly. If adding the Flap Servo: If you choose to add the flap servo you will need to run the servo wires down the channel towards the outlet so you may use the wire for later purposes, in both cases after finally assembly please neatly add glue to the channel and affix the channel cover and servo bay cover with glue. Please leave adequate timing for the glue to dry since this is a structural part of the wing.

11



Add glue on the connecting part for the vertical wing .Paste the vertical wing to the fuselage.

12



Insert the carbon rod into the left wing and put the left wing into the fuselage,then insert the right wing into the right position. Fix the screw on the bottom of the fuselage .

13

Assemble the propeller and spinner as shown in the pictures.

14

Plug the wires into the receiver, connecting them to the appropriate places.
(please see the instructions on the receiver)

15

Connect the XT-60 connectors of the ESC and battery. Fasten the battery in the right place. And close the battery hatch.

16

Assembly finished.

**17****CENTER OF GRAVITY (CG)**

CHARGING THE LIPO BATTERY

WARNING- before plugging in the battery, turn on the transmitter and make sure the throttle and the throttle trim are set to OFF (all the way down). **KEEP CLEAR OF THE PROPELLER!** (Remember that this is verysharp propeller!)

Open the battery hatch cover at the top of the fuselage and install the battery in the forward compartment, which is angled down towards the nose.

Install the battery first, and then plug it in. Make sure that no wires are out of place, and close the battery hatch.

Safety Instruction of li-poly battery

1. Do not disassemble or reconstruct the battery.
2. Do not short-circuit the battery.
3. Do not use or leave the battery nearby the fire, stove or heated place (more than 80 °C)
4. Do not immerse the battery in water or sea water, do not get it wet.
5. Do not charge the battery in direct sunlight.
6. Do not impact or toss the battery.
7. Do not use the battery with conspicuous damage or deformation.
8. Do not attempt direct soldering on the battery.
9. Do not reverse charge or over discharge the battery.
10. Do not reverse charge or reverse connect.
11. Do not connect the battery to the ordinary charger socket or car cigarette jack.
12. Do not use the battery for unspecified equipment.
13. Do not touch the leaking battery directly, please wash your skin or clothes with water.
14. Do not mix the Li-Poly battery with other dis-charged battery in using.
15. Do not continue charging the battery over the prescribed time.
16. Do not use or keep the battery under the direct sunlight.
17. Do not use the battery nearby the place where generates static electricity.
18. Do not use the battery when the environmental temperature is under 0 °C or over 45 °C.
19. If you find the battery leaking, smelling or abnormal, stop using it and return it to the seller.
20. Keep the battery away from children.
21. Use the specified charger and observe charging requirement.
22. When used by minors, parents should show them to the correct instruction.

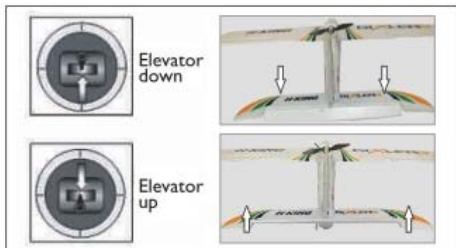
Cautions

Do not over charge or over dis-charge battery.

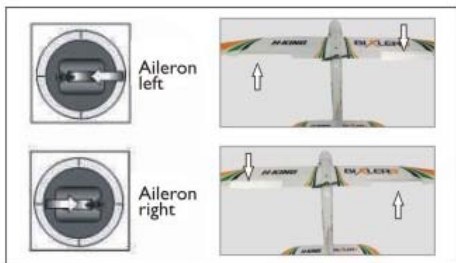
CONTROL DIRECTION TEST

You should bind your aircraft and transmitter before doing these tests. Move the controls on the transmitter to make sure aircraft control surfaces are moved correctly. Note: Make sure tail pushrods move freely and that paint or decals are not adhered to them.

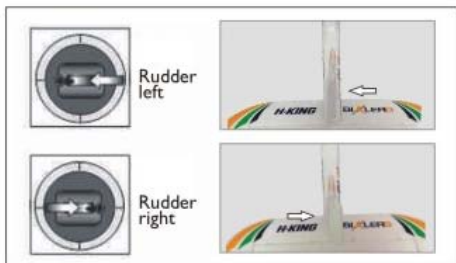
Elevator



Aileron




Rudder



TROUBLE SHOOTING

Problem	Cause	Solution
Motor does not run	<ol style="list-style-type: none"> 1. Battery is not fully charged. 2. The battery of transmitter is not sufficient 3. Check the wire connection inside the model 	<ol style="list-style-type: none"> 1. Charge the batteries. 2. Install a full charged battery 3. Contact the local dealer
No reaction of the control surface	<ol style="list-style-type: none"> 1. The servo cable didn't plug properly or inverted plug. 2. the servo is damaged 	<ol style="list-style-type: none"> 1. Check the connection of the servo cable 2. Change another servo.
Can not fly straight	<ol style="list-style-type: none"> 1. The rudder is not in the center position of the airframe 2. The main wing is not fixed in the center position of the airframe. 	<ol style="list-style-type: none"> 1. Adjust the trim switch on the transmitter 2. Re-assembly the main wing
Can not Climb	<ol style="list-style-type: none"> 1. The battery is not fully charged. 2. Elevator is out of trim. 	<ol style="list-style-type: none"> 1. Charge the battery 2. Adjust the trim on the Transmitter.
Limited control range	The batteries are almost flat	Install new batteries

ACCESSORIES

			
B-01	B-02	B-03	
			
B-04	B-05	B-06	
			
B-07	B-08	B-09	
			
B-010	B-011	B-012	
			
B-013 (OPTIONAL, Wire length: 270mm)	B-014 (OPTIONAL)	B-015 (OPTIONAL)	B-016

