

HobbyZone HBZ-1250

HobbyZone XCub 450mm RC Airplane Instruction Manual

Model: HBZ-1250

INTRODUCTION

The HobbyZone XCub 450mm is designed for beginner RC (Radio Controlled) airplane pilots, offering an accessible entry into the world of RC flight. Its ultra-micro size allows for operation in various outdoor spaces such as large yards, parks, and soccer fields. Constructed with durable EPP material and featuring a "pop off" prop saver design, this model is built to withstand typical learning experiences. It incorporates SAFE (Sensor Assisted Flight Envelope) technology to assist with flight stability and prevent common piloting errors, making the learning process smoother. The aircraft comes 100% factory-assembled and includes all necessary components for immediate flight: an electric power system, receiver, servos, two rechargeable batteries, a charger, and a controller/transmitter.

This manual provides essential information for the safe and successful operation and maintenance of your HobbyZone XCub 450mm RC Airplane.

SAFETY INFORMATION

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 HobbyZone. The product 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.

- Always operate in open areas, away from people, vehicles, and obstacles.
- Ensure batteries are fully charged and properly installed.
- Perform pre-flight checks before each use.
- Understand and utilize the SAFE technology for assisted flight.
- Never fly near airports or restricted airspace.

WHAT'S IN THE BOX

Your HobbyZone XCub 450mm RTF package includes the following components:

- (1) HobbyZone XCub 450mm RC Airplane
- (1) Electric Motor (installed)
- (1) Rotary Aileron Servo (installed)
- (1) Receiver, ESC and (2) Rotary Servo Control Unit (installed)
- (1) 5-Channel 2.4GHz Controller/Transmitter
- (4) AA Alkaline Batteries (for the controller/transmitter)
- (2) 400mAh 1S 3.7V LiPo Batteries
- (1) USB LiPo Battery Charger
- (1) Spare Propeller with Prop Saver
- Product Manual (this document)



Image: The HobbyZone XCub 450mm RC Airplane, ready for flight.

SETUP AND FIRST FLIGHT PREPARATION

1. **Charge Flight Batteries:** Use the included USB LiPo Battery Charger to fully charge both 400mAh 1S 3.7V LiPo batteries. Refer to the charger's instructions for proper charging procedures. Ensure batteries are charged in a safe environment, away from flammable materials.
2. **Install Transmitter Batteries:** Open the battery compartment on the back of the 5-Channel 2.4GHz Controller/Transmitter and insert the four included AA alkaline batteries, observing correct polarity.
3. **Aircraft Inspection:** Before each flight, visually inspect the aircraft for any damage. Check that the propeller is securely attached and free from cracks. Ensure all control surfaces (ailerons, rudder, elevator) move freely and correctly.
4. **Battery Installation in Aircraft:** Carefully open the battery hatch on the XCub. Connect a fully charged LiPo battery to the aircraft's ESC/receiver unit. Secure the battery within the compartment to prevent shifting during flight.
5. **Binding (if necessary):** Your RTF model should come pre-bound. If re-binding is required, consult the full product

manual for specific instructions on binding the transmitter to the receiver.

6. **Control Surface Check:** With the aircraft powered on and the transmitter on, verify that all control surfaces respond correctly to transmitter inputs. Move the sticks and observe the ailerons, elevator, and rudder. Ensure they move in the correct direction relative to your stick movements.
7. **SAFE Technology Activation:** The SAFE technology is designed to assist beginners. Ensure it is active for your initial flights. The transmitter typically has a switch to toggle between beginner, intermediate, and expert modes. Start in beginner mode.



Image: The X-Cub 450mm in flight, demonstrating its maneuverability.

OPERATING INSTRUCTIONS

Flight Modes (SAFE Technology)

The HobbyZone X-Cub 450mm features SAFE (Sensor Assisted Flight Envelope) technology, offering multiple flight modes to assist pilots of varying skill levels:

- **Beginner Mode:** Provides self-leveling and limits pitch and bank angles, preventing overcontrol and making it easier to learn. This mode is highly recommended for first flights.
- **Intermediate Mode:** Offers more control authority and increased pitch/bank limits, but still retains some self-leveling capabilities.
- **Expert Mode:** Full control with no angle limits or self-leveling, allowing for advanced maneuvers. Only use this mode once you are fully comfortable with the aircraft's handling.

Takeoff

1. Place the aircraft on a smooth, flat surface facing into the wind.
2. Advance the throttle smoothly. The aircraft will gain speed.
3. As it gains sufficient speed, gently apply a small amount of up elevator to lift off.
4. Maintain a steady climb to a safe altitude before attempting turns.

Flight Controls

- **Throttle (Left Stick Up/Down):** Controls motor speed and altitude.
- **Rudder (Left Stick Left/Right):** Controls yaw (nose left/right).
- **Elevator (Right Stick Up/Down):** Controls pitch (nose up/down).
- **Ailerons (Right Stick Left/Right):** Controls roll (wing tilt).

Landing

1. Approach the landing area into the wind, gradually reducing throttle.
2. Maintain a controlled descent using elevator and throttle.
3. As the aircraft nears the ground, gently flare by applying a small amount of up elevator to slow down and touch down smoothly on the main landing gear.
4. Cut throttle completely once on the ground and steer with the rudder until stopped.



Image: The XCub 450mm performing a low pass, showcasing its stable flight characteristics.

MAINTENANCE

- **Post-Flight Inspection:** After each flight, check the airframe for any damage, loose connections, or debris.
- **Propeller Check:** Inspect the propeller for nicks, cracks, or bends. Replace damaged propellers immediately using the spare provided. The "pop off" prop saver design helps prevent propeller damage during minor impacts.
- **Battery Care:** Store LiPo batteries at a storage charge (approximately 3.8V per cell) if not used for extended periods. Never fully discharge or overcharge LiPo batteries.
- **Cleaning:** Use a soft, dry cloth to clean the aircraft. Avoid using solvents or harsh chemicals.
- **Control Linkages:** Ensure all control linkages are free-moving and securely attached to their respective control horns and servos.



Image: The XCub 450mm executing a turn, demonstrating its responsive controls.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft does not respond to transmitter.	Transmitter or aircraft battery low/dead; not bound; power switch off.	Charge/replace batteries; ensure aircraft and transmitter are powered on; re-bind if necessary.
Motor runs but propeller does not spin.	Propeller loose or damaged.	Check propeller attachment; replace if damaged.

Problem	Possible Cause	Solution
Aircraft flies erratically or is difficult to control.	Control surfaces reversed; trim settings incorrect; damage to airframe/control linkages; flying in high winds.	Check control surface direction; adjust trim; inspect for damage; avoid flying in strong winds. Ensure SAFE mode is active for beginners.
Short flight times.	Battery not fully charged; old/damaged battery.	Ensure battery is fully charged; consider replacing old batteries.

SPECIFICATIONS

Feature	Detail
Model Number	HBZ-1250
Product Dimensions	15.6 x 15.6 x 4.6 inches
Item Weight	1.9 pounds
Manufacturer Recommended Age	14 years and up
Batteries (Aircraft)	(2) 400mAh 1S 3.7V LiPo (included)
Batteries (Transmitter)	(4) AA batteries (included)
Technology	SAFE (Sensor Assisted Flight Envelope)
Assembly	100% Factory-Assembled (RTF)







WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact HobbyZone customer service directly. Refer to the official HobbyZone website or the packaging for the most current contact details and warranty terms.

Online Resources: For additional support, FAQs, and community forums, visit the [HobbyZone Store on Amazon](#) or the official HobbyZone website.



Related Documents - HBZ-1250

	<p>HobbyZone P-51D Mustang 450mm Instruction Manual</p> <p>Comprehensive instruction manual for the HobbyZone P-51D Mustang 450mm RC aircraft, covering assembly, setup, operation, safety precautions, troubleshooting, and warranty information. Includes details on SAFE technology, transmitter functions, and flight procedures.</p>
	<p>HobbyZone Duet S 2 RC Plane Instruction Manual</p> <p>Comprehensive instruction manual for the HobbyZone Duet S 2 RC plane (HBZ05300), covering setup, flight operations, safety guidelines, troubleshooting, and maintenance.</p>
	<p>HobbyZone Champ HBZ4900 RTF RC Airplane Instruction Manual</p> <p>Comprehensive instruction manual for the HobbyZone Champ HBZ4900 Ready-to-Fly (RTF) remote-controlled airplane. Learn about setup, operation, safety precautions, charging, flying, and maintenance.</p>
	<p>Hobbyzone Sport Cub S 2 615mm RC Airplane - User Manual and Flight Guide</p> <p>Comprehensive guide for the Hobbyzone Sport Cub S 2 615mm RC airplane, covering setup, operation, safety precautions, charging, and troubleshooting for both RTF and BNF versions.</p>
	<p>Manuel d'instructions HobbyZone Duet S 2 : Guide complet pour votre avion RC</p> <p>Manuel d'instructions détaillé pour le HobbyZone Duet S 2 (HBZ05300). Apprenez à piloter en toute sécurité avec des instructions sur le fonctionnement, la maintenance et le dépannage de cet avion radiocommandé.</p>
	<p>HobbyZone Apprentice STOL S 700mm Instruction Manual</p> <p>Comprehensive instruction manual for the HobbyZone Apprentice STOL S 700mm RC aircraft, covering assembly, setup, operation, safety precautions, and troubleshooting. Includes details on SAFE and AS3X technologies.</p>



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