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HobbyZone HBZ444000

HobbyZone RC Airplane Sport Cub S 2 615mm RTF Instruction Manual

Model: HBZ444000

INTRODUCTION

The HobbyZone® Sport Cub S 2 is based on one of the most popular trainer aircraft ever designed for learning to fly radio controlled (RC) airplanes—the legendary Sport Cub S. Its ultra-micro size makes it the ideal choice for a smaller trainer model that can be flown in large yards, parks, baseball fields, and other suitable spaces where larger models can't typically be flown successfully by first-time pilots. Exclusive SAFE® (Sensor Assisted Flight Envelope) technology helps prevent overcontrol, loss of orientation and crashes so nearly everyone can learn to fly successfully! The 100% factory-assembled airframe is equipped with a reliable electric motor along with an ESC (Electronic Speed Control) and receiver unit plus four servos.



Image: The HobbyZone Sport Cub S 2 RC airplane, ready for flight.

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 Horizon Hobby, LLC. 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.

WHAT'S IN THE Box (SETUP)

The HobbyZone Sport Cub S 2 RTF package includes everything needed to fly:

- (1) HobbyZone® Sport Cub S 2 615mm
- (1) Electric Motor (installed)
- (2) Spektrum™ Linear Servos (installed)
- (1) Spektrum Receiver, ESC and (2) Servo Control Unit (installed)
- (1) Spektrum™ MLP6DSM Transmitter with USB Type-C Port (included)
- (4) AA Alkaline Batteries (for the transmitter, included)
- (1) E-flite® 150mAh 1S 3.7V LiPo Battery (included)
- (1) E-flite 1S LiPo Battery USB Charger (included)
- (1) Sport Cub S 2 615mm Product Manual



Image: The HobbyZone Sport Cub S 2 airplane shown with its included Spektrum MLP6DSM Transmitter, E-flite LiPo battery, and USB charger.

OPERATING INSTRUCTIONS

The HobbyZone Sport Cub S 2 features exclusive SAFE® (Sensor Assisted Flight Envelope) technology, designed to make learning to fly easier and prevent crashes. This technology offers multiple flight modes that can be easily changed at the flip of a switch on the transmitter.

Flight Modes:

- **Beginner Mode:** In this mode, the airplane has pitch (up/down) and bank (left/right) angle limits that prevent over-control, loss of orientation, and crashes. When the control sticks are released, the airplane automatically returns to level flight, allowing you to relax and enjoy simply 'steering' the airplane through the sky. Takeoffs are as simple as giving full throttle and letting the airplane fly off a suitable surface, or by giving it a quick hand launch. Landings are as easy as lowering the throttle and letting it glide to a landing on its own.
- **Intermediate Mode:** This flight mode allows more freedom in pitch and bank but still prevents significant over-control, and the airplane does not return to level flight on its own. This allows you to make tighter turns and to climb and descend faster as your skills advance.
- **Experienced Mode:** In this flight mode, there are no pitch or bank angle limits, giving you complete control. You can even fly inverted (upside down) and perform aerobatic maneuvers including loops, rolls, stall turns, and more.



Image: Learn to Fly Successfully with SAFE Technology. This diagram visually explains the pitch and roll limitations for Beginner, Intermediate, and Experienced flight modes, and illustrates Panic Recovery.

Panic Recovery:

If you lose control of the airplane in the Intermediate or Experienced flight modes, simply activate the Panic Recovery mode with the push of a button. SAFE Technology will automatically return the airplane to level flight, allowing you to regain control.

First Flight Considerations:

- Ensure the battery is fully charged before each flight.
- Perform a range check of your radio system before the first flight of the day.
- Always fly in an open area free from obstacles, people, and animals.
- Avoid flying in windy conditions, especially as a beginner, as the lightweight aircraft can be easily affected.



Image: The HobbyZone Sport Cub S 2 in flight against a clear sky, demonstrating its stable flight characteristics.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Sport Cub S 2.

- **Battery Care:** Always use the included E-flite 1S LiPo Battery USB Charger. Do not overcharge or deep discharge the battery. Store batteries in a cool, dry place.
- **Motor Cooling:** Allow the motor to cool for a few minutes between flights to prevent overheating, especially after extended use.
- **Propeller Inspection:** Regularly check the propeller for any damage or cracks. A damaged propeller can affect flight performance and balance.
- **Structural Repairs:** The aircraft is made from EPS foam. For minor repairs, hot glue and scotch tape can be effective. Avoid using CA glue as it can damage the foam.
- **Servo Protection:** Ensure the linear servos are protected from debris. While some models have plastic covers, if yours does not, take extra care to keep the servo mechanisms clean.



Image: A detailed view of the propeller and front section of the Sport Cub S 2, highlighting areas for inspection.

TROUBLESHOOTING

Common issues and their potential solutions:

- **Aircraft not binding/connecting to transmitter:** Ensure both the aircraft and transmitter are powered on and within range. Follow the binding procedure outlined in the full product manual. If issues persist, try removing and reconnecting the aircraft battery multiple times.
- **Aircraft not gaining altitude or struggling in flight:** Check the battery charge level. Ensure the propeller is not damaged and is securely attached. Verify that all control surfaces (ailerons, elevator, rudder) respond correctly to transmitter inputs.
- **Aircraft drifts or is difficult to control:** Perform a trim adjustment on the transmitter to neutralize control surfaces. If the issue persists, recalibrate the SAFE system as per the full manual.
- **Short flight times:** Ensure the battery is fully charged. Consider purchasing additional batteries for longer flying sessions. Flight time can be extended by flying with lower throttle settings.

SPECIFICATIONS

Feature	Detail
Product Dimensions	22.5 x 22.5 x 6.3 inches
Item Weight	2.15 ounces
Item Model Number	HBZ444000
Manufacturer	HobbyZone
Recommended Age	14 years and up
Batteries	1 Lithium Polymer battery required (included)
Release Date	November 3, 2023

ADDITIONAL RESOURCES

For further assistance and detailed information, please refer to the official HobbyZone resources.

- Official Product Manual:** A comprehensive manual is included with your product.
- Manufacturer Support:** For technical support or warranty inquiries, please visit the official HobbyZone website or contact their customer service.

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Related Documents - HBZ444000

 <p>Sport Cub S 2 615mm</p> <p>SAFE RTF BNF HORIZON</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>Sport Cub S 2 615mm</p> <p>SAFE RTF BNF HORIZON</p>	<p>Hobbyzone Sport Cub S 2 615mm RC Airplane User Manual</p> <p>Comprehensive user manual for the Hobbyzone Sport Cub S 2 615mm RC airplane, covering setup, operation, safety, troubleshooting, and maintenance. Includes detailed instructions for SAFE technology, transmitter setup, and battery handling.</p>

	<p>Hobbyzone Sport Cub S 2: Manuale di Istruzioni per Aeromodello RC</p> <p>Guida completa all'uso e alla manutenzione dell'aeromodello radiocomandato Hobbyzone Sport Cub S 2. Scopri le istruzioni di volo, sicurezza e configurazione.</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 Firebird Phantom RTF Electric Airplane Instruction Manual</p> <p>Comprehensive instruction manual for the HobbyZone Firebird Phantom RTF electric airplane, covering setup, operation, safety, and troubleshooting. Features Anti-Crash Technology (ACT).</p>
	<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>