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Dancing Wings Hobby E3201

Dancing Wings Hobby 600mm RC Savage Bobber Airplane Kit E3201 Instruction Manual

Model: E3201

1. INTRODUCTION

This manual provides essential information for the assembly, setup, operation, and maintenance of your Dancing Wings Hobby 600mm RC Savage Bobber Airplane Kit, model E3201. This product is a kit requiring assembly and the separate purchase of a power system and radio equipment. Please read these instructions thoroughly before beginning assembly or operation to ensure safe and correct use.



Image 1.1: Fully assembled Dancing Wings Hobby 600mm RC Savage Bobber airplane.

2. PRODUCT OVERVIEW

The Savage Bobber E3201 is a 600mm wingspan radio-controlled micro airplane kit designed for enthusiasts who enjoy building their aircraft. The kit includes the airframe components, which require assembly. The fuselage is constructed from 0.5mm fiberglass, and the wing utilizes balsa wood and PP foam for a lightweight yet durable structure.

- **Wingspan:** 600mm (23.6 inches)
- **Length:** 418mm (16.5 inches)
- **Flying Weight:** Approximately 98g (requires additional components)
- **Fuselage Material:** 0.5mm fiberglass
- **Wing Material:** Balsawood and PP foam



E3201

Combo includes:
E32 Savage Bobber KIT

Image 2.1: The E3201 Savage Bobber Kit, showing the assembled aircraft and indicating it is a kit version.

3. KIT CONTENTS (E3201)

The E3201 package contains the airframe components necessary to build the Savage Bobber airplane. This is a KIT version, meaning it does not include electronic components such as the motor, ESC, servos, propeller, battery, or receiver. These items must be purchased separately.

Typical kit contents include:

- Laser-cut wooden and foam parts for wings, fuselage, and tail sections
- Fiberglass fuselage components
- Landing gear components
- Small hardware (e.g., control horns, pushrods, screws)
- Instruction manual for assembly

4. **Tail Section Assembly:** Assemble the horizontal and vertical stabilizers.
5. **Joining Sections:** Attach the wing and tail sections to the fuselage.
6. **Landing Gear Installation:** Secure the landing gear to the fuselage.
7. **Control Surface Hinges:** Install hinges for ailerons, elevator, and rudder.
8. **Covering (if applicable):** Apply any provided covering material to the airframe.
9. **Electronics Installation:** Install the motor, ESC, servos, receiver, and battery as described in the 'Suggested Power System' and 'Setup' sections.
10. **Final Checks:** Perform a thorough inspection for secure connections, correct control surface movement, and proper balance.

Always refer to the specific assembly manual provided with your kit for precise instructions and diagrams.

5. SUGGESTED POWER SYSTEM AND ELECTRONICS

For optimal performance, the following components are recommended for your Savage Bobber E3201 kit:

- **Motor:** MC1108 4000KV Brushless Motor
- **ESC (Electronic Speed Controller):** 5A 2S
- **Servos:** 2.0g * 4 pieces (for ailerons, elevator, rudder)
- **Propeller:** 5030 (5-inch diameter, 3-inch pitch)
- **Battery:** 2S (7.4V) 150-200mAh LiPo battery
- **Receiver:** Compatible with your radio transmitter, 4-channel or more.

6. SETUP

Proper setup of your RC aircraft is crucial for safe and enjoyable flight. After completing the physical assembly:

1. **Radio Binding:** Bind your receiver to your radio transmitter according to the manufacturer's instructions for your specific radio system.
2. **Servo Connections:** Connect the servos to the correct channels on your receiver (e.g., aileron, elevator, rudder).
3. **ESC Connection:** Connect the ESC to the throttle channel of your receiver and to the motor. Ensure correct motor rotation.
4. **Control Surface Direction:** Verify that all control surfaces (ailerons, elevator, rudder) move in the correct direction relative to your stick inputs. Reverse channels on your transmitter if necessary.
5. **Control Throws:** Set appropriate control throws (the amount of movement for each control surface) using your transmitter's dual rates and exponential functions. Start with conservative throws for initial flights.
6. **Center of Gravity (CG):** This is critical. Refer to your kit's assembly manual for the recommended CG location. Adjust the battery position or add small amounts of weight as needed to achieve the correct balance point. An incorrect CG can make the aircraft unflyable.
7. **Pre-Flight Check:** Before every flight, perform a range check of your radio system and visually inspect all components for damage or loose connections.

7. OPERATING

Operating an RC aircraft requires practice and adherence to safety guidelines. Always fly in a safe, open area away from people, animals, and property.

1. **Pre-Flight Inspection:** Before each flight, check all control surfaces, linkages, battery charge, and propeller for damage.
2. **Weather Conditions:** Only fly in calm weather conditions, especially for a micro aircraft like the Savage Bobber. Avoid strong winds, rain, or extreme temperatures.
3. **Takeoff:** Hand launch or perform a gentle ground takeoff, applying throttle smoothly.
4. **Flight Control:** Practice gentle stick inputs. The Savage Bobber is designed for relaxed flight.
5. **Landing:** Reduce throttle and glide in for a smooth landing. Practice approaches to maintain control.
6. **Battery Management:** Monitor flight time and land before the battery is fully depleted to prevent damage to the battery and aircraft.

8. MAINTENANCE

Regular maintenance will extend the life of your Savage Bobber and ensure safe operation.

- **Post-Flight Inspection:** After each flight, check for any loose parts, cracks in the airframe, or damage to the propeller, motor, or landing gear.
- **Cleaning:** Keep the aircraft clean from dirt, grass, and debris. Use a soft cloth.
- **Propeller:** Inspect the propeller for nicks or cracks. Replace damaged propellers immediately as they can cause vibration and reduce efficiency.
- **Battery Care:** Store LiPo batteries at a storage voltage (around 3.8V per cell) and in a fire-safe bag. Do not overcharge or over-discharge.
- **Control Linkages:** Ensure all control linkages are free-moving and secure.
- **Storage:** Store the aircraft in a cool, dry place away from direct sunlight and extreme temperatures.

9. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Aircraft does not respond to controls	Unbound receiver, dead battery (transmitter or aircraft), loose connections, damaged receiver/servos.	Re-bind receiver, charge/replace batteries, check all wiring, inspect components for damage.
Motor not spinning	Dead battery, ESC not armed, loose motor/ESC connection, damaged motor/ESC.	Charge battery, ensure throttle is at zero when connecting battery, check connections, replace faulty component.
Aircraft flies erratically or is difficult to control	Incorrect Center of Gravity (CG), reversed control surfaces, excessive control throws, damaged airframe.	Verify CG, check control surface directions, reduce control throws, inspect for damage.
Short flight times	Battery not fully charged, old/damaged battery, inefficient propeller, motor/ESC issues.	Ensure full charge, replace old battery, check propeller for damage, inspect power system.

10. SPECIFICATIONS

Detailed specifications for the Dancing Wings Hobby 600mm RC Savage Bobber Kit (E3201):

- **Wingspan:** 600mm (23.6 inches)
- **Length:** 418mm (16.5 inches)
- **Flying Weight:** Approximately 98g (with recommended electronics)
- **Fuselage Material:** 0.5mm fiberglass
- **Wing Material:** Balsawood and PP foam
- **Package Dimensions:** 23.62 x 9.06 x 1.57 inches
- **Package Item Weight:** 2.2 pounds
- **Manufacturer Recommended Age:** 16 years and up
- **Manufacturer:** DW Hobby

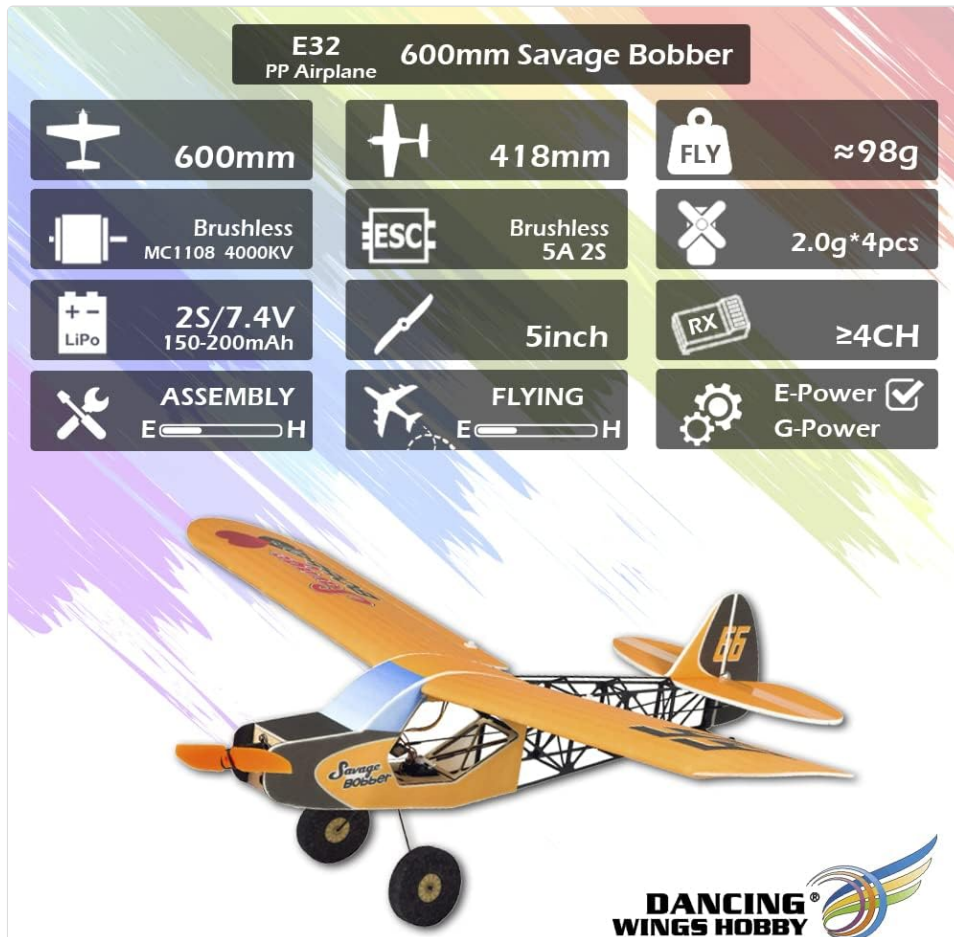


Image 10.1: Infographic detailing key specifications and recommended components for the E32 600mm Savage Bobber.

11. SAFETY INFORMATION

Operating radio-controlled aircraft carries inherent risks. Adhere to the following safety guidelines:

- Always operate your RC aircraft in a safe, open area, away from people, animals, buildings, and power lines.
- Never fly near airports or restricted airspace.
- Ensure your batteries are charged and in good condition. Follow LiPo battery safety procedures.
- Always perform a pre-flight check before each flight.
- Keep spectators at a safe distance.
- Do not fly in adverse weather conditions (e.g., strong winds, rain).
- This product is recommended for users aged 16 and up. Adult supervision is advised for younger users.

12. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Dancing Wings Hobby Savage Bobber E3201 kit, please refer to the documentation included with your purchase or contact the manufacturer directly through their official channels. Keep your proof of purchase for any warranty claims.