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› Dancing Wings Hobby EPP Electric Flying Wing Rainbow E0511 Instruction Manual

Dancing Wings Hobby E0511

Dancing Wings Hobby EPP Electric Flying Wing Rainbow

Model: E0511 Instruction Manual

1. INTRODUCTION

This manual provides essential instructions for the assembly, operation, and maintenance of your Dancing Wings Hobby EPP Electric Flying Wing Rainbow, Model E0511. This model is an 800mm wingspan EPP foam flying wing designed for adult hobbyists. It is supplied as a kit and requires assembly, including the installation of electronic components.

E0511

Combo includes:
E0511 KIT



Figure 1.1: Assembled EPP Electric Flying Wing Rainbow E0511. This image shows the completed flying wing with its distinctive rainbow-colored graphics and a propeller at the rear.

2. SAFETY INFORMATION

No specific safety information was provided with this product. However, when operating any remote-controlled aircraft, it is crucial to follow general safety guidelines:

- Always operate in open areas, away from people, animals, and obstacles.
- Ensure batteries are charged correctly and handled safely.
- Perform pre-flight checks before each flight.
- Do not fly in strong winds or adverse weather conditions.
- Keep fingers clear of the propeller when the motor is powered.
- Understand and comply with local regulations for RC aircraft operation.

3. PACKAGE CONTENTS

The E0511 kit includes the following components:

- EPP foam wing sections
- Carbon fiber reinforcement rods

- Control horns and linkages
- Motor mount
- Propeller (5030)
- Small parts and hardware
- Instruction manual

Please inspect all components upon receipt to ensure nothing is missing or damaged.

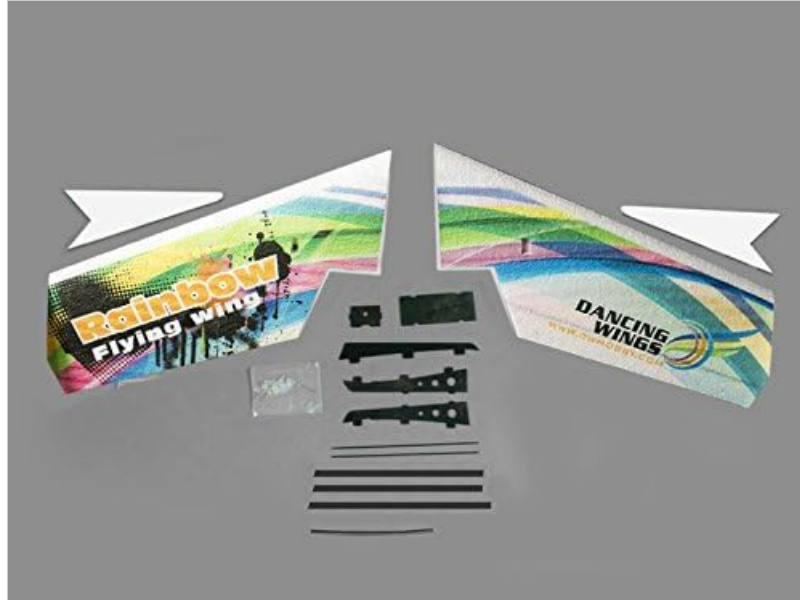


Figure 3.1: Kit components laid out. This image displays the various EPP foam parts, carbon rods, and small hardware included in the E0511 kit, ready for assembly.

4. ASSEMBLY INSTRUCTIONS

The E0511 flying wing requires assembly. Follow the included detailed assembly instructions for best results. Key steps generally include:

1. **Wing Assembly:** Join the EPP foam wing sections using appropriate adhesive (not included, typically foam-safe CA glue or epoxy). Ensure proper alignment.
2. **Carbon Reinforcement:** Insert the carbon fiber rods into the designated slots on the wing for structural rigidity. This model features added carbon plate reinforcement at the back compared to previous versions.



Figure 4.1: Carbon plate reinforcement. This image shows a close-up of the wing with a black carbon plate inserted, providing additional structural support.

3. **Motor and Servo Installation:** Mount the motor (1404 2900KV recommended) onto the motor mount. Install the two 5g servos into their respective bays.



Figure 4.2: Motor and servo installation. This image illustrates the placement of the small electric motor and two servos within the foam structure of the flying wing.

4. **ESC and Receiver:** Install the Electronic Speed Controller (ESC, 10A recommended) and your radio receiver (not included) in the designated compartments, ensuring proper wiring.
5. **Control Linkages:** Connect the servos to the elevons using the provided control horns and pushrods. Ensure free movement and correct throw.
6. **Propeller:** Attach the 5030 propeller to the motor shaft.

Refer to the detailed diagrams and instructions provided in the kit for precise steps.

5. POWER SYSTEM SETUP

The suggested power system for the E0511 model includes:

- **Motor:** 1404 2900KV
- **ESC:** 10A
- **Servo:** 5g * 2
- **Propeller:** 5030 (5 inch)
- **Battery:** 2S 800mAh LiPo (not included)

Ensure all connections are secure and correctly polarized. Test the motor and servo functions with your radio system before attempting flight.

6. PRE-FLIGHT CHECKS

Before each flight, perform the following checks:

- **Battery:** Ensure the flight battery is fully charged and securely installed.
- **Control Surfaces:** Verify that the elevons move freely and respond correctly to transmitter inputs (up/down,

left/right).

- **Center of Gravity (CG):** Confirm the CG is within the recommended range as specified in the assembly manual. An incorrect CG can lead to unstable flight.
- **Propeller:** Check that the propeller is securely attached and free from damage.
- **Radio Range:** Perform a range check of your radio system.

7. OPERATING INSTRUCTIONS

The E0511 Rainbow Flying Wing is designed for easy assembly and is suitable as a normal training airplane for beginners. It offers stable flight characteristics once properly set up.

- **Launch:** Hand launch the aircraft into the wind with a gentle, firm throw. Apply throttle smoothly.
- **Controls:** Use the elevons for pitch (up/down) and roll (left/right).
- **Landing:** Reduce throttle and glide the aircraft in for a gentle landing.

For a visual demonstration of the flying wing in action, please refer to the official product video below:

Your browser does not support the video tag.

Video 7.1: E05 800mm Rainbow V2 Fly wing in flight. This video demonstrates the flight characteristics and performance of the Dancing Wings Hobby Rainbow flying wing, showing it being launched and flown outdoors.

8. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your flying wing:

- **EPP Foam:** Inspect the foam for any damage after each flight. Minor dents can often be repaired with hot water or steam. Larger cracks should be repaired with foam-safe adhesive.
- **Motor:** Check the motor for smooth rotation and ensure the propeller is balanced. Clean any debris from the motor.
- **Electronics:** Ensure all wiring connections are secure. Check servos for proper function and smooth movement.
- **Battery:** Store LiPo batteries in a safe, cool place and follow proper charging and discharging procedures.

9. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Aircraft does not fly straight	Incorrect trim, unbalanced CG, warped wing	Adjust transmitter trim, re-balance CG, check wing for warps
Lack of power	Low battery, motor/ESC issue, damaged propeller	Charge battery, check motor/ESC connections, replace propeller
No control response	Transmitter/receiver not bound, flat transmitter battery, disconnected servo	Re-bind, replace batteries, check servo connections

10. SPECIFICATIONS

Detailed specifications for the Dancing Wings Hobby EPP Electric Flying Wing Rainbow E0511:



Figure 10.1: Visual specifications overview. This diagram provides a quick reference for key specifications such as wingspan, flying weight, and recommended power system components.

Feature	Detail
Model	E0511
Wingspan	800mm
Flying Weight	Approximately 165g
Material	100% EPP (Expanded Polypropylene Foam)
Suggested Motor	1404 2900KV
Suggested ESC	10A
Suggested Servos	5g * 2
Suggested Propeller	5030 (5 inch)
Suggested Battery	2S 800mAh LiPo
Assembly Difficulty	Easy Beginner
Flying Type	Normal Training Airplane
Manufacturer	DW Hobby
UPC	192187147880
ASIN	B07BWB7N7X

11. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Dancing Wings Hobby EPP Electric Flying Wing Rainbow E0511, please contact the retailer or manufacturer directly. Keep your proof of purchase for any warranty claims.

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