

E-flite EFLP1555E

E-flite 15 x 5.5 Electric Propeller EFLP1555E Instruction Manual

Model: EFLP1555E

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1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your E-flite 15 x 5.5 Electric Propeller (Model: EFLP1555E). Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.

2. PRODUCT OVERVIEW

The E-flite 15 x 5.5 Electric Propeller is designed for electric-powered aircraft, offering efficient thrust and smooth operation. Its durable construction ensures reliability for various flight applications.



Figure 2.1: E-flite 15 x 5.5 Electric Propeller. This black two-bladed propeller is specifically designed for electric-powered model aircraft, providing balanced performance and durability.

Key Features:

- **Dimensions:** 15-inch diameter with a 5.5-inch pitch, optimized for electric power systems.
- **Construction:** Manufactured from durable plastic material for longevity and consistent performance.
- **Design:** Two-bladed design in a sleek black finish, engineered for efficient airflow and reduced drag.
- **Compatibility:** Suitable for a wide range of E-flite electric aircraft models requiring a propeller of these specifications.

Product Overview Video:

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Video 2.1: This video provides a general overview of E-flite electric propellers, demonstrating their features and construction. Please note that while the video showcases an 11x8 propeller, the product covered in this manual is the 15 x 5.5 Electric Propeller (EFLP1555E).

3. SETUP AND INSTALLATION

Proper installation of the propeller is crucial for safety and performance. Always ensure your aircraft's power system is disconnected before handling the propeller.

Safety Precautions:

- Always disconnect the battery from the electronic speed controller (ESC) before touching the propeller.
- Wear appropriate eye protection during installation and maintenance.
- Ensure the propeller is balanced before installation to prevent vibrations.
- Never operate the motor with a damaged propeller.

Installation Steps:

1. **Verify Propeller Direction:** Ensure the propeller is oriented correctly for thrust. The leading edge of the blade should be facing the direction of rotation for forward thrust.

- 2. **Mounting:** Slide the propeller onto the motor shaft or propeller adapter.
- 3. **Secure Fasteners:** Use the provided propeller washer and nut (or spinner assembly) to secure the propeller firmly. Tighten the nut sufficiently to prevent slippage, but do not overtighten, which could damage the propeller hub.
- 4. **Check for Free Rotation:** After tightening, ensure the propeller can rotate freely without obstruction.
- 5. **Balance Check:** If not pre-balanced, use a propeller balancer to check and correct any imbalances. An unbalanced propeller can cause excessive vibration, leading to structural fatigue and reduced performance.

4. OPERATING GUIDELINES

Once installed, the E-flite 15 x 5.5 Electric Propeller is ready for flight. Adhere to the following guidelines for safe and effective operation.

- **Pre-Flight Check:** Before each flight, inspect the propeller for any cracks, nicks, or damage. Ensure it is securely fastened.
- **Motor Compatibility:** Confirm that your motor and electronic speed controller (ESC) are rated to handle the power requirements and RPM of a 15 x 5.5 propeller. Over-propping can lead to motor overheating and failure.
- **Clearance:** Always ensure adequate ground clearance and clearance from any obstacles during takeoff and landing.
- **Safe Distance:** Maintain a safe distance from the propeller when the motor is armed or running.

5. MAINTENANCE

Regular maintenance will extend the life of your propeller and ensure continued safe operation.

- **Inspection:** After every flight, visually inspect the propeller for any signs of wear, damage, or imbalance. Pay close attention to the blade tips and hub area.
- **Cleaning:** Clean the propeller with a soft cloth and mild soap and water if necessary. Avoid harsh chemicals that could degrade the plastic.
- **Storage:** Store the propeller in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.
- **Replacement:** Replace the propeller immediately if any damage is observed, including cracks, chips, bends, or significant nicks. Even minor damage can lead to catastrophic failure at high RPMs.

6. TROUBLESHOOTING

This section addresses common issues related to propeller performance.

Problem	Possible Cause	Solution
Excessive Vibration	Unbalanced propeller, bent motor shaft, loose propeller nut, damaged propeller.	Balance the propeller, check motor shaft for straightness, tighten propeller nut, replace damaged propeller.

Problem	Possible Cause	Solution
Reduced Thrust/Performance	Incorrect propeller size/pitch, propeller installed backward, motor/ESC issues, damaged propeller.	Verify propeller dimensions and orientation, check motor/ESC functionality, replace damaged propeller.
Propeller Loosens During Flight	Propeller nut not tightened sufficiently, incorrect washer used, vibration.	Ensure propeller nut is securely tightened, use appropriate washer, address vibration issues.

7. SPECIFICATIONS

Detailed specifications for the E-flite 15 x 5.5 Electric Propeller EFLP1555E.

Feature	Detail
Model Number	EFLP1555E
Propeller Diameter	15 inches
Propeller Pitch	5.5 inches
Product Dimensions	15 x 4 x 0.58 inches
Item Weight	0.32 ounces
Material	Durable Plastic
Color	Black
Manufacturer	Horizon Hobby
Recommended Age	14 months and up

8. WARRANTY AND SUPPORT

Warranty Information:

E-flite products are manufactured by Horizon Hobby. For specific warranty details regarding manufacturing defects or material flaws, please refer to the official Horizon Hobby website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

Customer Support:

For technical assistance, troubleshooting advice, or inquiries about your E-flite propeller, please visit the official E-flite or Horizon Hobby support pages. You can often find FAQs, additional resources, and contact information for their support team there.

- **E-flite Official Website:** www.e-fliterc.com
- **Horizon Hobby Support:** www.horizonhobby.com/support

