

Aexit EP9047

Aexit 5 Pcs RC Airplane Propeller EP9047

INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and effective use of your Aexit 5 Pcs RC Airplane Propeller, model EP9047. Please read these instructions carefully before installation and operation to ensure proper function and longevity of the product.

These propellers are designed for use with compatible RC airplane motors and batteries. Always prioritize safety during installation and operation.

2. Product Overview

The Aexit EP9047 propellers are 2-flute, black plastic propellers designed for RC airplanes. This package includes 5 individual propellers.



Figure 1: A set of five Aexit EP9047 RC airplane propellers. Each propeller is black, with two blades, and features a central hub for motor shaft attachment. They are designed for efficient thrust in remote-controlled aircraft applications.

Key Features:

- **Product Name:** RC Airplane Propeller
- **Flute Number:** 2
- **Model:** EP9047
- **Motor Shaft Hole Diameter:** 3mm / 0.12"
- **Total Length (Rotating Diameter):** 228mm / 9"
- **Pitch:** 119mm / 4.7"
- **Maximum Thickness:** 11mm / 0.43"
- **Material:** Plastic
- **Color:** Black
- **Net Weight (per propeller):** Approximately 7.2g (36g for 5 propellers)
- **Package Content:** 5 x Propeller

3. Setup and Installation

Proper installation is crucial for the safety and performance of your RC airplane. Follow these steps carefully:

1. **Compatibility Check:** Before installation, verify that the propeller's rotating diameter (228mm / 9") and pitch (119mm / 4.7") are compatible with your specific RC plane motor and battery setup. The motor shaft hole diameter is 3mm (0.12"). Incompatible propellers can lead to reduced performance, motor damage, or unsafe flight conditions.
2. **Motor Preparation:** Ensure your RC plane's motor is securely mounted and free from debris.
3. **Propeller Mounting:** Carefully slide the propeller onto the motor shaft. Ensure it fits snugly without excessive force. The propeller should be oriented correctly to generate thrust in the desired direction (typically, the curved side of the blade faces the direction of thrust).
4. **Securing the Propeller:** Use the appropriate propeller adapter, washer, and nut (not included with these propellers, typically supplied with the motor or plane kit) to firmly secure the propeller to the motor shaft. Do not overtighten, as this can damage the propeller or motor shaft. Ensure the propeller is balanced and spins freely without wobble.
5. **Pre-Flight Check:** After installation, perform a thorough pre-flight check. Manually spin the propeller to ensure it is securely attached and does not interfere with any other components.

Note: *These propellers are accessories only; the model plane itself is not included. Always refer to your RC plane's specific assembly instructions for detailed motor and propeller installation procedures.*

4. Operating Guidelines

Once installed, these propellers contribute to the flight performance of your RC airplane. Adhere to the following general operating guidelines:

- **Safety First:** Always operate RC aircraft in open areas, away from people, animals, and obstacles. Maintain a safe distance from the spinning propeller.
- **Pre-Flight Inspection:** Before each flight, inspect the propellers for any cracks, nicks, or damage. Damaged propellers can cause imbalance, vibration, and potential failure during flight. Replace any damaged propellers immediately.
- **Balanced Operation:** Ensure propellers are properly balanced. Unbalanced propellers can cause excessive vibration, leading to reduced efficiency and potential damage to the motor and airframe.
- **Environmental Conditions:** Avoid flying in strong winds or adverse weather conditions that could stress the propellers beyond their design limits.

5. Maintenance

Regular maintenance helps extend the lifespan of your propellers and ensures safe operation:

- **Cleaning:** After use, gently clean the propellers to remove any dirt, grass, or debris. A soft cloth and mild soap solution can be used if necessary, followed by thorough drying.
- **Inspection:** Periodically inspect the propellers for signs of wear, stress cracks, or impact damage. Pay close attention to the hub area and blade tips.
- **Storage:** Store propellers in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid storing them under heavy objects that could deform or damage them.
- **Replacement:** Replace propellers at the first sign of damage or excessive wear. Even minor damage can significantly affect performance and safety.

6. Troubleshooting

If you encounter issues related to propeller performance, consider the following:

- **Excessive Vibration:**

- *Cause:* Unbalanced propeller, bent motor shaft, or damaged propeller.
- *Solution:* Check propeller for damage and replace if necessary. Ensure propeller is properly balanced. Inspect motor shaft for straightness.

- **Reduced Thrust/Performance:**

- *Cause:* Incorrect propeller pitch for motor/battery, damaged propeller, or propeller installed backward.
- *Solution:* Verify propeller specifications match motor/battery requirements. Check for damage and correct installation direction.

- **Propeller Detachment:**

- *Cause:* Improperly secured propeller nut/adaptor, or damaged motor shaft threads.
- *Solution:* Ensure propeller is tightly secured with the appropriate hardware. Inspect motor shaft threads for damage.

7. Specifications

Product Name	RC Airplane Propeller
Model	EP9047
Flute Number	2
Motor Shaft Hole Diameter	3mm / 0.12"
Total Length (Rotating Diameter)	228mm / 9"
Pitch	119mm / 4.7"
Maximum Thickness	11mm / 0.43"
Material	Plastic
Color	Black
Net Weight (5 Pcs)	36g
Manufacturer	Aexit
ASIN	B07MBCNJVD
Date First Available	January 3, 2019

8. Warranty and Support

For warranty information and customer support regarding your Aexit EP9047 propellers, please contact the seller or manufacturer directly. Details regarding specific warranty periods and terms are typically provided at the point of purchase or on the manufacturer's official website.

If you have questions about product compatibility or technical assistance, please reach out to the retailer or Aexit customer service.

