

ANTSIR Legend War Bird Series 400 Compatible Propellers

ANTSIR RC Plane Propeller Replacement Kit

INSTRUCTION MANUAL FOR LEGEND WAR BIRD SERIES 400 AND COMPATIBLE RC AIRPLANES

1. Introduction

This instruction manual provides essential information for the proper installation, usage, and maintenance of your ANTSIR replacement propellers. These propellers are designed for 400mm 4-channel RC airplanes, including models from The Legend War Bird Series 400, ANTSIR A400, LEAMBE Warbird, VOLANTEXRC P-51 Mustang, and Top Race F4U Corsair.

The kit includes both dual-blade and multi-blade propellers, offering versatility for different flight performance preferences. Please read this manual thoroughly before installation and operation to ensure safe and optimal performance.

2. Safety Information

- Ensure secure installation of the mounting base and propellers before flight. Loose components can cause malfunction and damage.
- Avoid flying in high-wind conditions, as this can lead to loss of control and propeller damage.
- Always inspect propellers for any signs of damage (cracks, bends, chips) before each flight. Replace damaged propellers immediately.
- Keep fingers and loose clothing away from rotating propellers.
- This product is recommended for users aged 16 years and up.

3. Package Contents

Your ANTSIR RC Plane Propeller Replacement Kit includes the following items:

- 2x Dual-Blade Propellers (Black)
- 3x Multi-Blade Propellers (Black)
- 2x Motor Mounts
- Streamlined Protective Cover (for multi-blade propellers)



Image 1: Contents of the ANTSIR RC Plane Propeller Replacement Kit.

4. Compatibility

These propellers are universally compatible with 400mm 4-channel RC airplanes and are designed for motor shafts with 2mm to 3.17mm diameters. Confirmed compatible models include:

- The Legend War Bird 400 Series (P-40, Spitfire, BF-109)
- ANTSIR A400 Warbird
- LEAMBE 4CH 400mm Models
- VOLANTEXRC 761-5, 761-6, 761-7
- Top Race TR-C385, TR-C405

5. Installation Instructions

Follow these steps to replace your RC plane propellers:

1. **Remove Old Propeller:** Carefully unscrew or detach the existing propeller from the motor shaft.
2. **Check Motor Mount:** If your original motor mount does not align with the new propeller, replace it with one of the provided stainless steel motor shaft mounts. Ensure the mount is securely fastened.
3. **Attach New Propeller:** Align the new propeller with the motor shaft and the motor mount. The tool-free mounting system allows you to align, lock, and secure the propeller.
4. **Secure Protective Cover (Multi-Blade):** For multi-bladed propellers, ensure the streamlined protective cover is correctly fitted to reduce air resistance and protect the blades.

5. **Verify Installation:** Gently spin the propeller by hand to ensure it rotates freely without obstruction and is firmly attached.



Image 2: Detailed view of a multi-blade propeller assembly.



Image 3: Demonstrating the flexibility of the propeller blades.

Installation Video Reference:

Video 1: Demonstration of assembling a 3-blade propeller. This video illustrates the process of attaching the blades to the central hub, which is similar to the installation of the multi-blade propellers in this kit.

Video 2: Overview of RC plane propeller assembly. This video provides a general visual guide on how to handle and prepare RC plane propellers for installation.

6. Operating Considerations

The ANTSIR propeller kit includes two types of propellers, each offering distinct flight characteristics:

- **Dual-Blade Propellers:** These propellers are designed to reduce air resistance, providing

approximately 15% faster thrust and enabling more agile maneuvers. They are ideal for aerobatics and racing.

- **Multi-Blade Propellers:** These propellers mimic full-scale aircraft aesthetics, offering smoother lift and quieter operation. They are perfect for scale model enthusiasts seeking realistic flight simulation.

Choose the appropriate propeller type based on your desired flight experience.

Propeller Saver System:

The propellers are designed to work with a propeller saver system, which helps protect the propeller from damage during impacts and prevents electronic components from overcurrent. This system allows the propeller to detach or fold back upon impact, minimizing breakage.

Video 3: Explanation of the propeller saver system. This video demonstrates how the propeller saver mechanism functions to protect the propeller and motor during a crash or impact.

7. Maintenance

To ensure the longevity and performance of your propellers:

- Regularly inspect propellers for any signs of wear, cracks, or deformation.
- Clean propellers with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals.
- Store propellers in a safe place to prevent bending or damage when not in use.
- Replace propellers that show significant wear or damage to maintain optimal flight performance and safety.

8. Troubleshooting

If you encounter issues with your propellers, consider the following:

- **Propeller Does Not Fit:** If your original motor mount does not align with the new propeller, replace it with one of the provided motor mounts. These mounts are designed for secure attachment.
- **Excessive Vibration:** Ensure the propeller is securely attached and not damaged. These blades are pre-balanced, so excessive vibration may indicate improper installation or damage.
- **Reduced Performance:** Check for any damage to the propeller blades. Even minor nicks can affect aerodynamic efficiency. Ensure the correct propeller type (dual-blade or multi-blade) is used for your desired flight characteristics.

9. Specifications

Feature	Detail
Material	Nylon fiber + ABS hub
Dual-Blade Propeller Size	5.1 × 0.6 inches (130 × 16mm)
Multi-Blade Propeller Size	4.1 × 0.4 inches (105 × 11mm)
Dual-Blade Weight	2g
Multi-Blade Weight	3g
Product Dimensions (Overall)	5.1 x 0.6 x 1 inches

Item Weight (Package)	1.6 ounces
Manufacturer Recommended Age	16 years and up

10. Warranty and Support

ANTSIR provides a 90-day warranty against manufacturing defects for this product. For installation videos, compatibility questions, or any other support needs, please contact us via Amazon Messages. Our customer support team is available to assist you.

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