X-IMVNLEI X-IDRONE3

X-IMVNLEI X-IDRONE3 Drone Propeller Set User Manual

Model: X-IDRONE3 | Brand: X-IMVNLEI

Introduction

This manual provides essential information for the installation, identification, and maintenance of your X-IMVNLEI X-IDRONE3 drone propeller set. Please read this manual carefully before use to ensure proper operation and longevity of your drone's propellers.

Package Contents

The X-IMVNLEI X-IDRONE3 propeller set includes:

- 16 x Propeller Blades (8 pairs, black with orange tips)
- Screws for installation



Image: Overview of the X-IMVNLEI X-IDRONE3 drone and the complete 16-piece propeller replacement set, including mounting screws.



Image: Detailed view of the propeller pairs and the accompanying screws, highlighting the black blades with orange tips.

Propeller Identification and Types

The propellers are categorized into two types: Type A and Type B. It is crucial to install the correct propeller type on the corresponding motor arm of your drone. Incorrect installation can lead to unstable flight or damage.

- **Type A Propellers:** These are typically marked with an "A" and are designed for specific motor rotation directions.
- **Type B Propellers:** These are typically marked with a "B" and are designed for the opposite motor rotation direction.

Each propeller set includes both A and B types, along with the necessary screws for attachment.

Installation Guide

Follow these steps to safely replace or install the propellers on your X-IDRONE3 drone:

1. **Power Off Drone:** Ensure your drone is completely powered off and the battery is disconnected before beginning any installation or maintenance.
2. **Identify Propeller Type:** Observe the markings (A or B) on the existing propellers or the drone's motor arms to determine which type of propeller belongs to each arm.
3. **Remove Old Propeller (if applicable):** Unscrew the existing propeller from the motor shaft. Keep the screws organized if you plan to reuse them, though new screws are provided.
4. **Align New Propeller:** Place the new propeller (Type A or B, as identified) onto the corresponding motor shaft, ensuring the central hole aligns with the shaft and the screw holes align with the motor mount.
5. **Secure with Screws:** Use the provided screws to firmly attach the propeller to the motor mount. Do not overtighten, as this can damage the propeller or motor. Ensure the propeller is securely fastened but can still rotate freely on its axis without wobble.
6. **Repeat for all Propellers:** Repeat the process for all propellers that need replacement. Double-check that all propellers are the correct type for their respective motor arms and are securely fastened.



Image: Illustrates a propeller correctly installed on a drone motor arm, showing the screw attachment points.

Maintenance and Care

Proper maintenance extends the lifespan of your propellers and ensures safe flight.

- **Regular Inspection:** Before each flight, inspect all propellers for any signs of damage, such as cracks, bends, chips, or deformities. Even minor damage can affect flight stability and safety.
- **Cleaning:** Keep propellers clean from dust, dirt, and debris. Use a soft, dry cloth to gently wipe them down. Avoid using harsh chemicals.
- **Replacement:** Replace any damaged or worn propellers immediately. Flying with damaged propellers can lead to crashes and further damage to the drone.
- **Storage:** Store spare propellers in a clean, dry place away from direct sunlight and extreme temperatures to prevent material degradation.

Troubleshooting

If you experience issues related to your drone's flight performance after propeller installation, consider the following:

Issue	Possible Cause	Solution
Drone unstable or vibrating during flight	◦ Incorrect propeller type (A/B) installed on a motor arm. ◦ Propeller not securely fastened. ◦ Damaged or bent propeller. ◦ Unbalanced propeller.	◦ Verify correct A/B propeller placement. ◦ Ensure all screws are tightened properly. ◦ Replace any damaged propellers. ◦ Check for debris on propellers.
Unusual noise from motors	◦ Propeller rubbing against drone body or landing gear. ◦ Loose propeller.	◦ Re-seat propeller, ensure proper clearance. ◦ Tighten propeller screws.

Specifications

- **Product Dimensions (L x W x H):**0.1 x 1.5 x 5.7 cm (per propeller)
- **Weight:** Approximately 17 grams (total for the set)
- **Material:** Durable composite plastic
- **Color:** Black with orange tips
- **Quantity:** 16 pieces (8 pairs)

Safety Information

Always prioritize safety when handling drone components and operating drones.

- Keep fingers and loose clothing away from rotating propellers.
- Ensure propellers are securely attached before every flight.
- Do not attempt to fly with damaged or bent propellers.
- Perform propeller installation and removal with the drone powered off and battery disconnected.

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Example: How do I reset this device or fix this error?

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