ZYHOBBY AS350 Ecureuil 500 Size Fuselage (T-Rex 500 Compatible)

ZYHOBBY AS350 Ecureuil 500 Size RC Helicopter Fuselage Instruction Manual

Model: AS350 Ecureuil 500 Size Fuselage (T-Rex 500 Compatible)

1. Introduction

Thank you for choosing the ZYHOBBY AS350 Ecureuil 500 Size RC Helicopter Fuselage. This high-quality fiberglass fuselage is designed to enhance the realism and aesthetics of your 500-class RC helicopter, specifically compatible with the T-Rex 500 series and similar models. This manual provides essential information for assembly, operation, and maintenance to ensure optimal performance and durability.

2. Product Contents

Please verify that all components listed below are present in your package:

- 1x FRP (Fiber Reinforced Plastic) Fuselage
- 2x Cover and Pulley Set
- 2x Horizontal Tail Fins
- Metal Landing Gear
- Mounting Accessories (various screws, nuts, etc.)

Image: The AS350 Ecureuil fuselage shown alongside its included components, such as the horizontal tail fins, metal landing gear, and various mounting accessories.

3. Specifications

The following are the key specifications for the AS350 Ecureuil 500 Size Fuselage:

Characteristic	Value
Length	990mm
Width	160mm
Height	240mm
Weight	490-500g
Distance Mainrotor > Tail rotor	approx. 570mm
Material	FRP (Fiber Reinforced Plastic)
Manufacturer	ROBAN
Recommended Age	14 years and up

4. Setup and Assembly

This fuselage is designed for experienced RC helicopter enthusiasts. Proper installation is crucial for flight performance and safety. It is recommended to have a good understanding of RC helicopter mechanics or seek assistance from an experienced builder.

4.1 General Assembly Steps

1. **Preparation:** Unpack all components and inspect them for any damage. Ensure you have all necessary tools, including small screwdrivers, hex wrenches, and adhesives suitable for fiberglass and metal.

2. **Chassis Integration:** Carefully mount your existing 500-class helicopter chassis (e.g., T-Rex 500, Logo 400) inside the FRP fuselage. The fuselage is designed with internal mounting points. Ensure the chassis is securely fastened and aligned correctly within the fuselage.
3. **Landing Gear Installation:** Attach the metal landing gear to the designated mounting points on the underside of the fuselage. Ensure all screws are tightened securely.
4. **Tail Fin Attachment:** Install the two horizontal tail fins onto the tail boom section of the fuselage. Pay attention to orientation and secure them firmly.
5. **Magnetic Cabin Lock System:** The fuselage features a magnetic cabin lock system for quick and easy access to the internal components. Familiarize yourself with its operation for future maintenance and battery changes.
6. **Component Placement:** Route all wires and place electronic components (ESC, receiver, FBL unit, batteries) neatly within the fuselage, ensuring they do not interfere with moving parts or block ventilation. The transparent front window and side windows are designed to aid in heat dissipation.
7. **Final Inspection:** Before flight, perform a thorough inspection. Check all screws for tightness, ensure no wires are pinched, and verify that all control surfaces move freely without obstruction from the fuselage.

Image: The AS350 Ecureuil fuselage separated into its two main halves, illustrating the internal structure and mounting points for the helicopter chassis.

Image: A fully assembled view of the AS350 Ecureuil fuselage, showcasing its sleek design, red, white, and silver paint scheme, and integrated landing gear.

5. Operating Considerations

While this manual focuses on the fuselage, its proper integration is vital for the overall performance of your RC helicopter. Always adhere to the operating instructions provided with your helicopter's main kit and electronic components.

- **Pre-Flight Checks:** Before each flight, ensure the fuselage is securely attached, and all access panels (cabin) are properly closed and latched. Check for any loose screws or signs of damage.
- **Center of Gravity (CG):** The addition of a scale fuselage will shift the helicopter's center of gravity. It is critical to re-balance your helicopter after installing the fuselage to achieve the correct CG for stable flight. Adjust battery placement or add weights as necessary.
- **Aerodynamics:** Scale fuselages can affect the helicopter's aerodynamic characteristics. Be prepared for slight changes in flight behavior compared to a bare mechanics setup.
- **Heat Management:** Ensure adequate airflow for your electronics, especially the ESC and motor. The fuselage has side windows for heat dissipation, but monitor temperatures during initial flights.

6. Maintenance

Regular maintenance will prolong the life and appearance of your AS350 Ecureuil fuselage.

- **Cleaning:** Wipe the fuselage exterior with a soft, damp cloth. Avoid harsh chemicals or abrasive cleaners that could damage the paint or fiberglass finish.

- **Inspection:** Periodically inspect the fuselage for cracks, stress marks, or damage, especially around mounting points and high-stress areas. Address any damage promptly to prevent further issues.
- **Hardware Check:** Ensure all screws and fasteners holding the fuselage to the chassis, and the landing gear to the fuselage, remain tight. Vibrations during flight can loosen hardware over time.
- **Magnetic Latch:** Check the magnetic cabin lock system for proper function. Clean any debris that might hinder its operation.

7. Troubleshooting

Most issues related to the fuselage will stem from improper installation or damage. Here are some common scenarios:

- **Excessive Vibration:** If you experience new vibrations after installing the fuselage, re-check the balance of your main and tail rotors. Ensure the fuselage is not touching any rotating parts. Verify all mounting screws are tight and that the chassis is not loose within the fuselage.
- **Overheating Electronics:** If electronics are running hotter than usual, ensure the side windows and any other ventilation points are clear. Re-evaluate component placement to improve airflow.
- **Poor Flight Characteristics:** Re-check the helicopter's center of gravity (CG). An incorrect CG is a common cause of unstable flight after adding a fuselage. Also, ensure no part of the fuselage is obstructing control linkages.
- **Damaged Fuselage:** Minor cracks in fiberglass can often be repaired using fiberglass repair kits or epoxy. For significant damage, replacement may be necessary.

8. Warranty and Support

For specific warranty information or technical support regarding your ZYHOBBY AS350 Ecureuil 500 Size RC Helicopter Fuselage, please contact your retailer or the manufacturer directly. Keep your proof of purchase for any warranty claims.
Manufacturer: ROBAN
For further assistance, please visit the ZYHOBBY official website or contact their customer service.