

# ROBAN

## INSTRUCTION MANUAL

SCALE FUSELAGE AIRWOLF 470 SIZE



### 1. INTRODUCTION

Thank you for buying Roban Model products. The 450 size Airwolf scale fuselage is designed as an easy to use product. Please read the manual carefully before assembling the model, and follow all precautions and recommendations located within the manual. Be sure to retain the manual for future reference, routine maintenance and tuning. The scale fuselage is designed for T-REX 450 Helicopter series use. You can easily put it on your T-REX 450 for new clothing.

#### **Important Note**

Roban Model R/C Helicopters are advanced, high-performance devices, built incorporating the latest technologies. They are not intended as toys, and improper use can potentially lead to serious injury, or even fatal accidents. We implore you to read this manual thoroughly before operating these models. Safety should be your utmost priority - not just your own, but also that of others and your surroundings when piloting Roban Model products.

#### **Liability Disclaimer:**

The manufacturer and the seller cannot accept liability for the operation or misuse of this product. Roban Model R/C helicopters are intended to be used exclusively by experienced adults in legally sanctioned flying fields. Once sold, we cannot monitor or control the product's operation or usage.

#### **Operation Guidelines:**

Upon assembly of the scale fuselage, the weight and complexity of the structure will increase. To mitigate risk of accidents and damages, we advise against attempting 3D flights.

#### **Skill Requirements:**

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The operation of R/C products necessitates a certain level of skill and familiarity. Any damages or dissatisfaction resulting from accidents, modifications, or operational mishaps are not covered under any warranty. Consequently, such products cannot be returned for repair or if you experience problems during operation or maintenance.

## 2. OPERATIONAL GUIDELINES FOR SAFETY IN USING R/C AIRCRAFT MODELS

### **Safety Zone:**

Prioritize the safety of others by operating R/C aircraft models in isolated areas, free of bystanders. Avoid piloting these models near residential zones or large groups of people.

### **Operational Risks:**

Be aware that R/C aircraft models are susceptible to accidents, malfunctions, and crashes. These may result from a range of factors such as inadequate maintenance, pilot errors, or radio interference. Understanding these risks is crucial for safe operation.








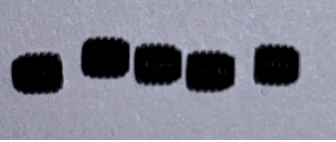







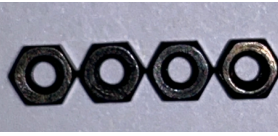
### **Pilot Responsibility:**

Pilots bear the sole responsibility for any damage or injuries that may occur during operation or as a result of using R/C aircraft models. By undertaking the control of these devices, you accept accountability for your actions and their possible consequences. Always aim for caution and responsible handling to minimize any potential risks.




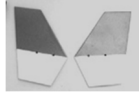








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## 3. CONTENTS OF KIT

Please check the contents of the kit prior to installation.

1		2	
3		4	
5		6	
7		8	
9		10	
11		12	
13		14	
15		16	

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17		18	
19		20	
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23		24	
25		26	
27		28	

Item	Description	Quantity
1	L Lever	5pcs
2	Ball links	6pcs
3	Socket Head Cap Screw M2x18mm	1pc
4	M2 Nut	1pc
5	Socket Head Cap Screw M3x10mm	5pcs
6	Pushrod 1.5x178mm	2pcs
7	Pushrod 1.5x22mm	1pc
8	Hex Set Screw M3x3mm	5pcs
9	Spacer 22x6x2mm	2pcs

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10	Servo Holder	1pc
11	Self Tapping Screw A2x8	2pcs
12	Spacer set 52x12x3 6/2	8pcs
13	EVA distancing spacer	1pc
14	Socket Head Cap Screw M2x18mm	4pcs
15	Washer M2	4pcs
16	M2 Nut	4pcs
17	Vertical tail fin	1pc
18	Self Tapping Screw A2x10	2pc
19	Horizontal tail wings	2pcs
20	Small vertical winglet	2pcs
21	Self Tapping Screw A2x5mm	4pcs
22	Large Machine gun	2pcs
23	Small Machine gun	2pcs
24	Shaft Coupling	2pcs
25	End caps	2pcs
26	Front window	1pc
27	Side window	2pcs
28	Rocket pod	1pc

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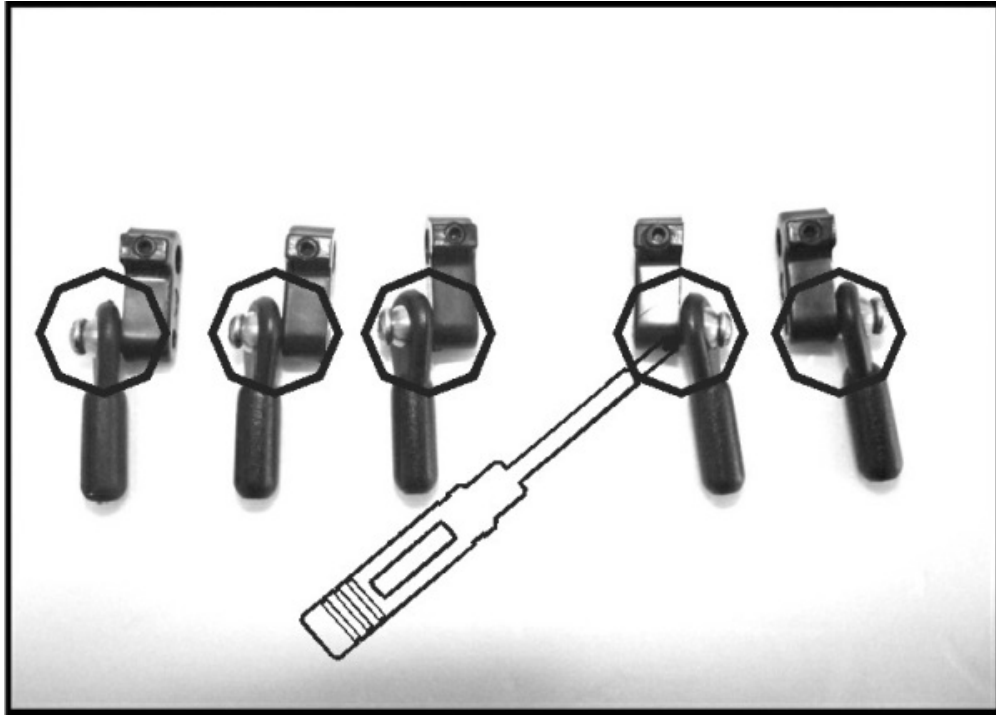
## REQUIRED TOOLS / CONSUMABLES

<b>Tool No.</b>	<b>Tool/Consumable</b>
1	Hobby knife
2	Allen wrench
3	Phillips screwdriver
4	File
5	Side cutters
6	Silicone adhesive
7	Super glue
8	2K Epoxy glue
9	Fine sandpaper
10	Scissors

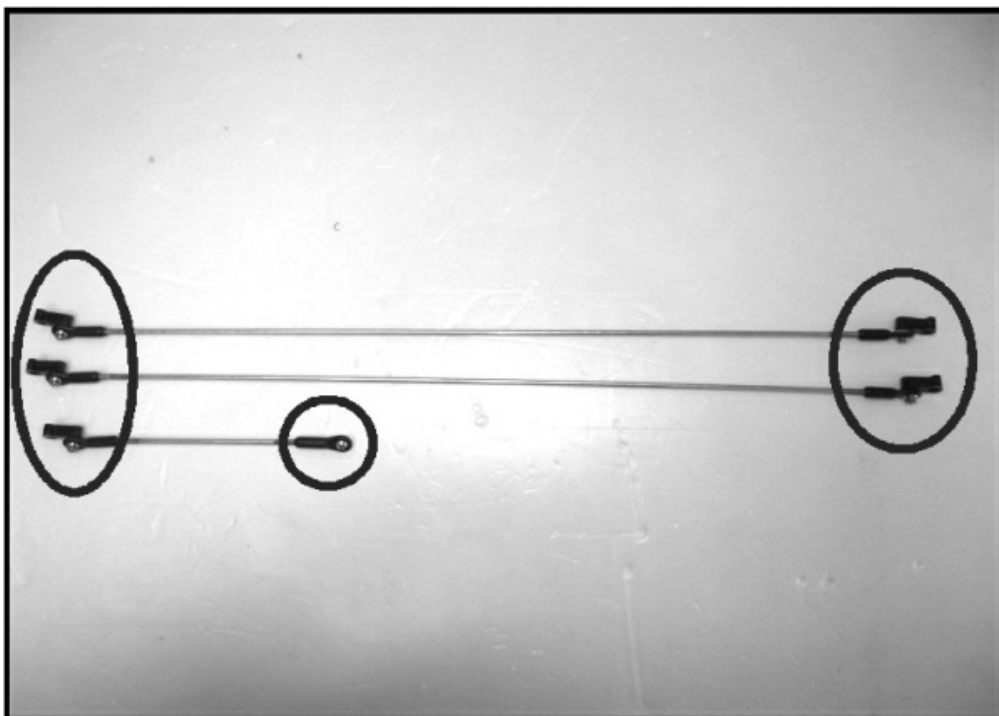
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## 4. INSTALLATION

- 4.1. Mount the balls with screw M2x5 onto the levers as shown below. Do not overtighten, the threads will wear out.

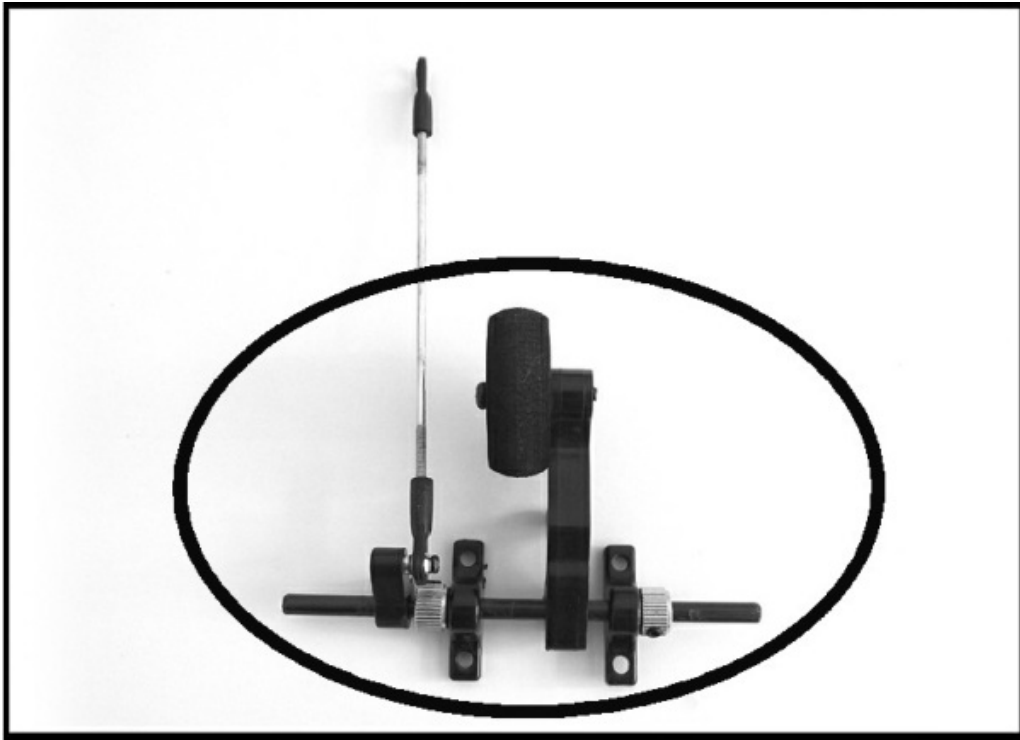


- 4.2. Mount the ball links to the rods and the levers to the ball links as shown.

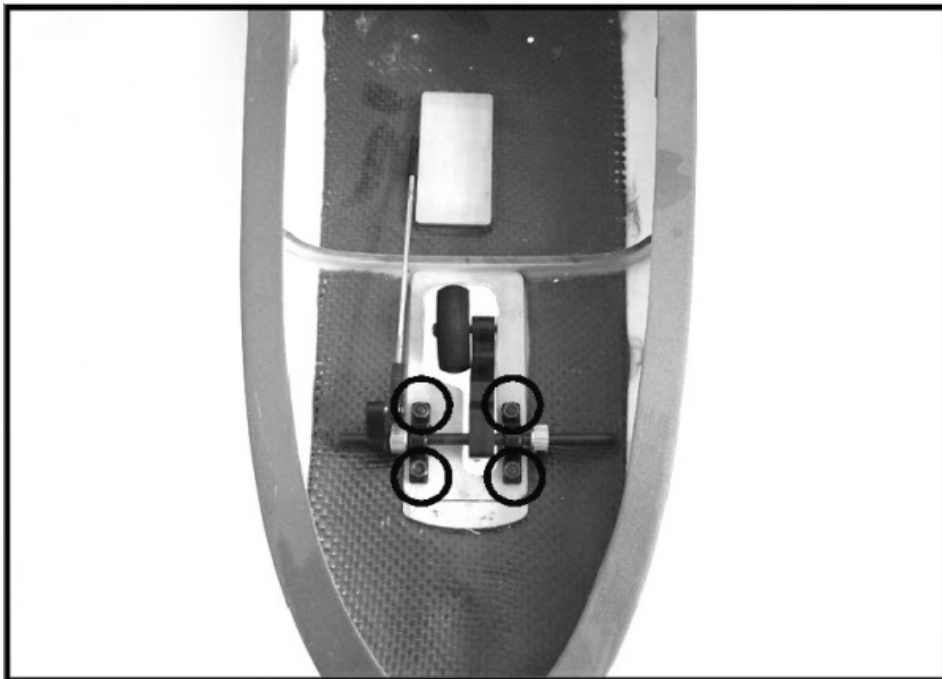


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- 4.3. Assemble the front wheel unit according to the picture.

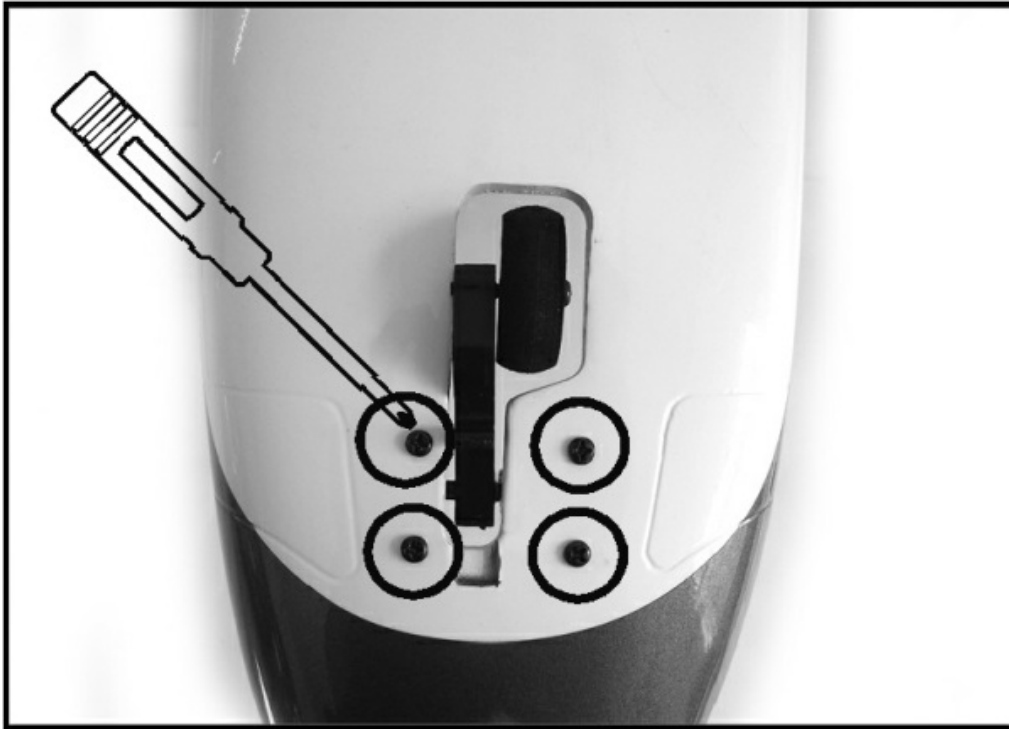


- 4.4. Install it into the fuselage as show using screws.

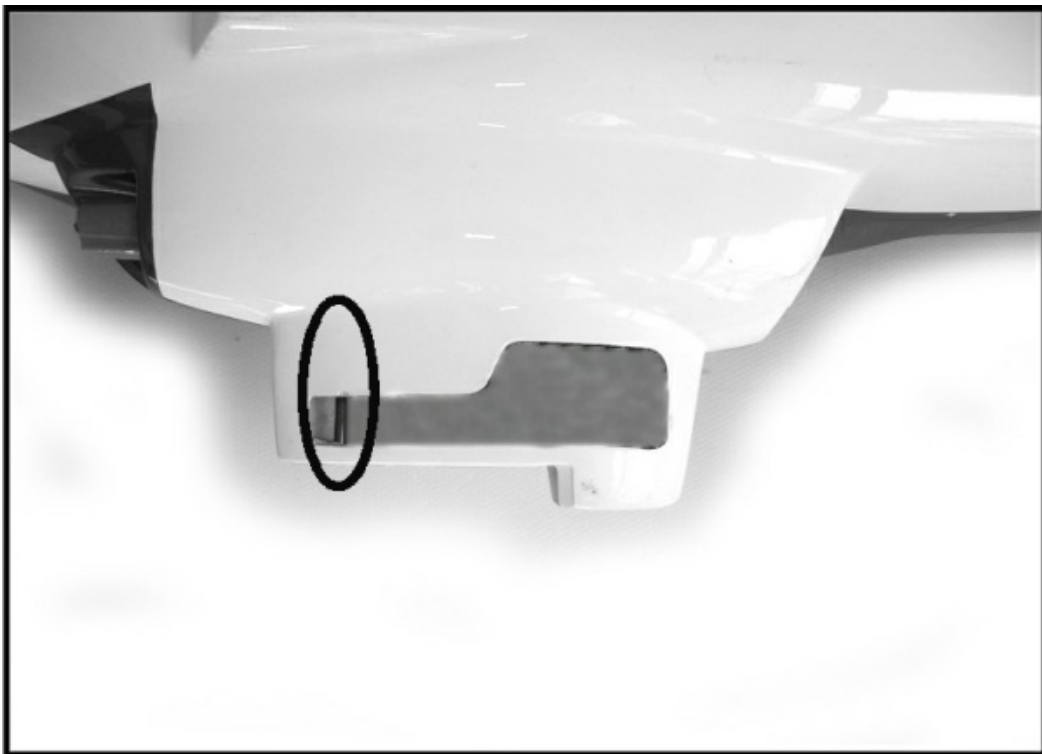


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- 4.5. Lock in place with washer M3 and screw M3x10 as depicted.



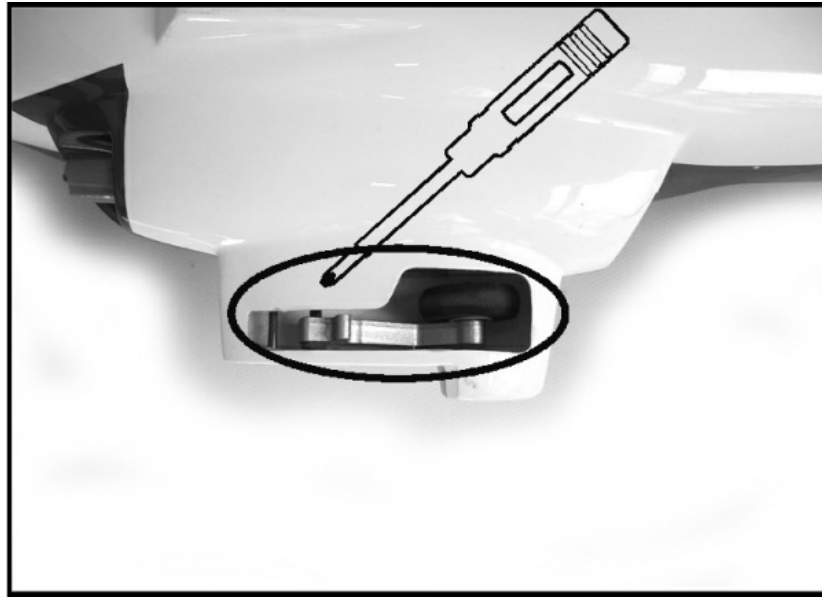
- 4.6. The carbon rods 3x45 are the pivot axle, insert them partially but do not secure them yet. The preinstalled rod serves as the end position limiter.





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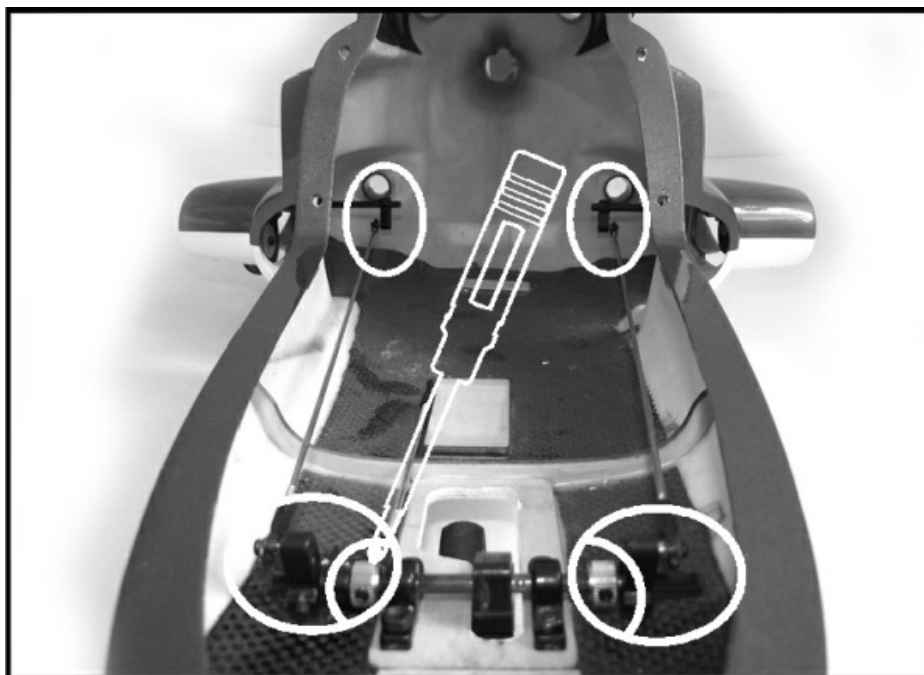
- 4.7. Install the tail strut, then lock the rod in place with set screw. All adjustments can be done afterwards on the other end of the rods.



- 4.8. To ensure optimal performance and safety, please follow these instructions carefully when installing the levers, shafts, and retaining rings:

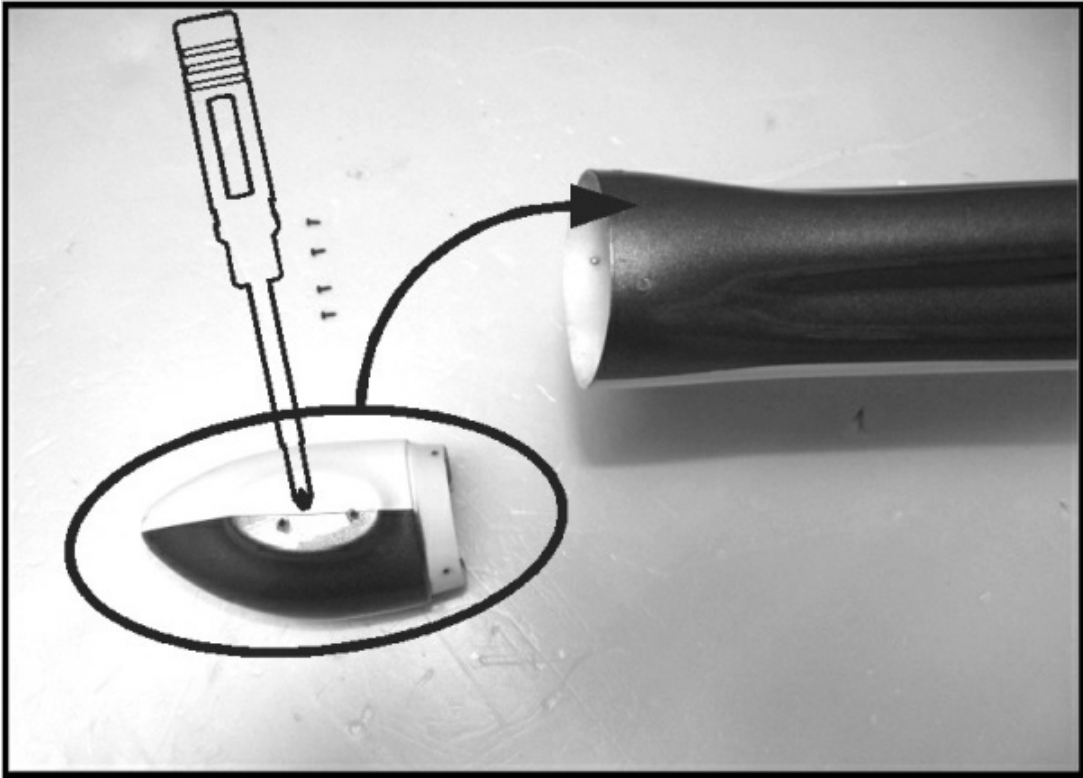
Install the prepared components as shown in the accompanying diagrams, making sure to align them properly. Avoid overtightening the screws before ensuring that the entire retract assembly is properly adjusted. Over-tightening may result in accelerated wear on the carbon shafts and plastic threads.

Once the assembly is properly set up and aligned, we recommend securing the components with epoxy glue. This will ensure the longevity of the assembly and prevent any potential safety hazards, such as attempting to land with a wheel in.



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4.9. Remove the tail cap.

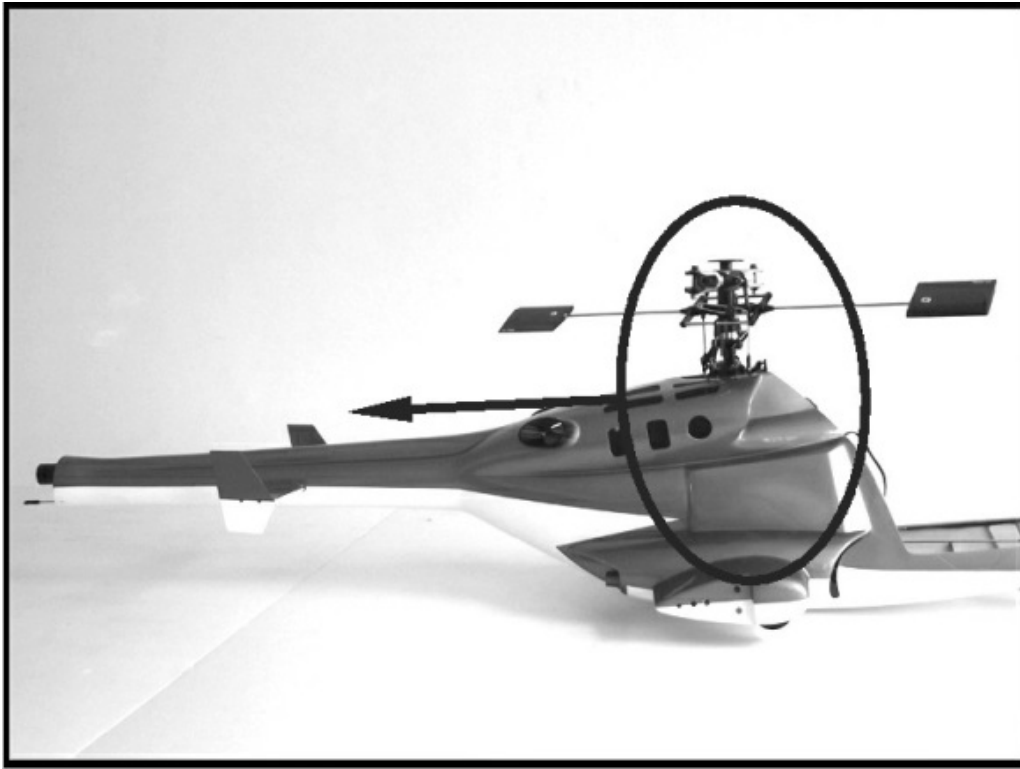


4.10. Install wooden spacers onto the mechanic, front and back.

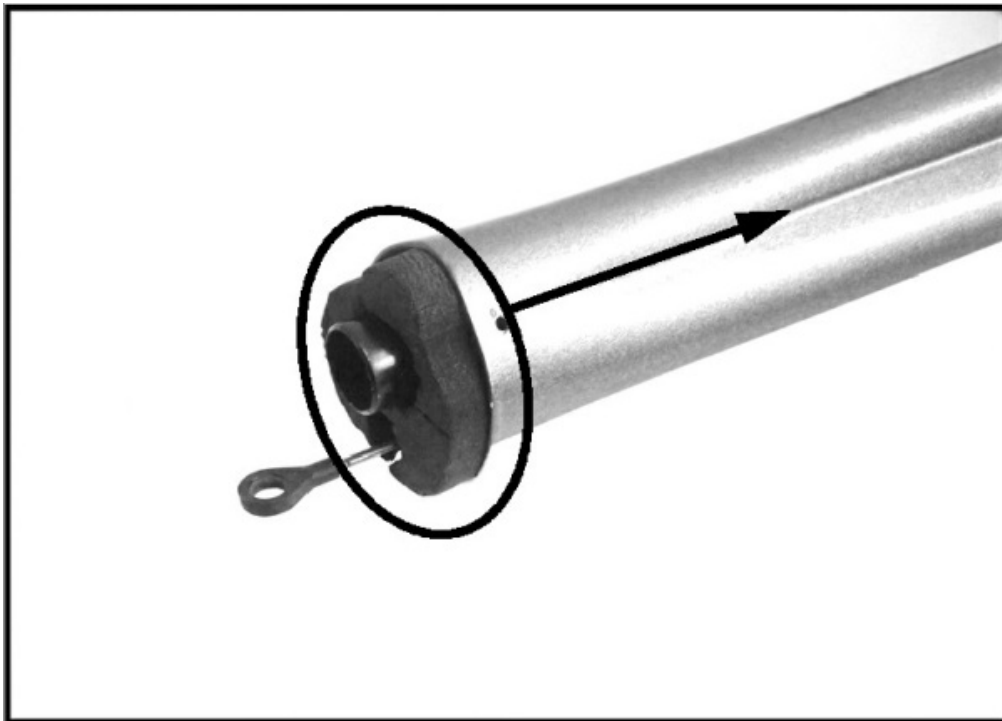


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4.11. Insert the mechanic into the fuselage as shown.

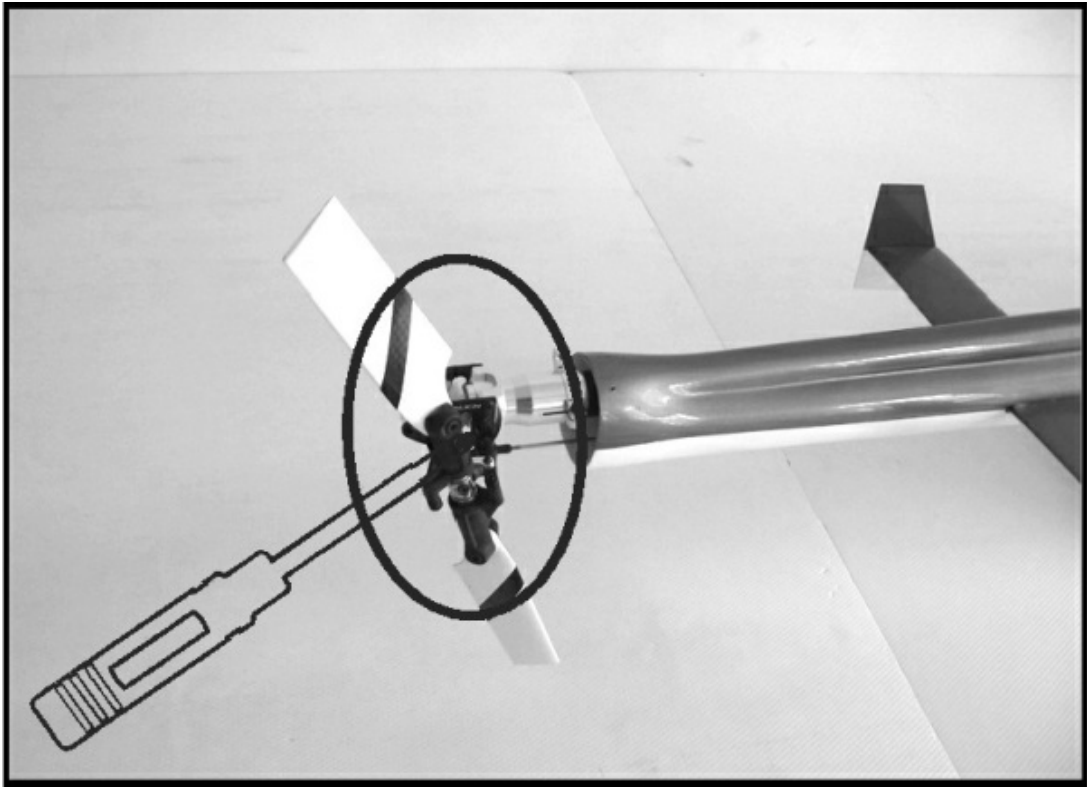


4.12. Insert the EVA rubber into the tail boom to prevent vibrations.

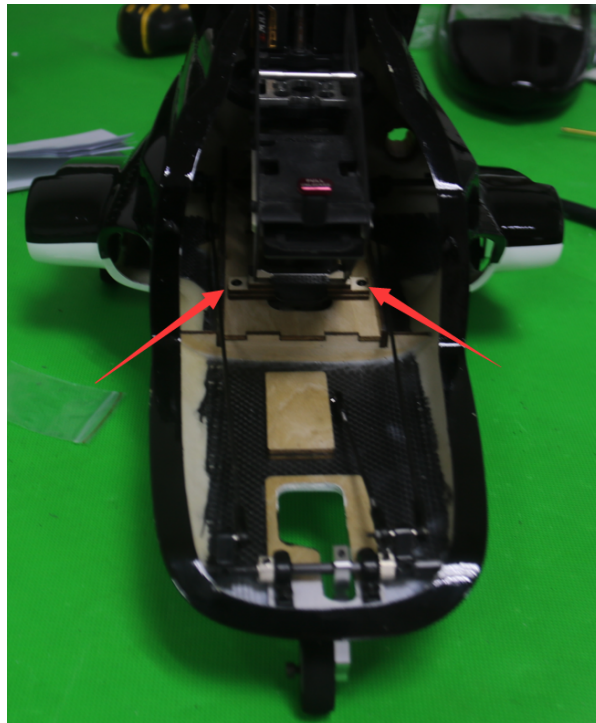


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4.13. Install the tail rotor

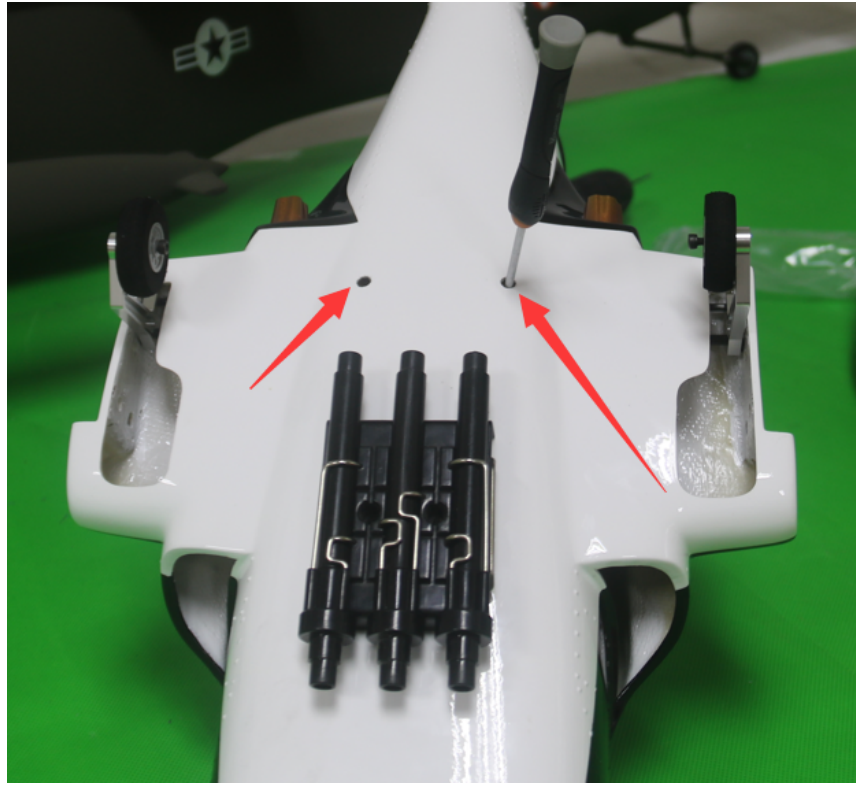


4.14. Insert the mechanic (remove tail rotor first) into the fuselage, and screw the front section down as shown.

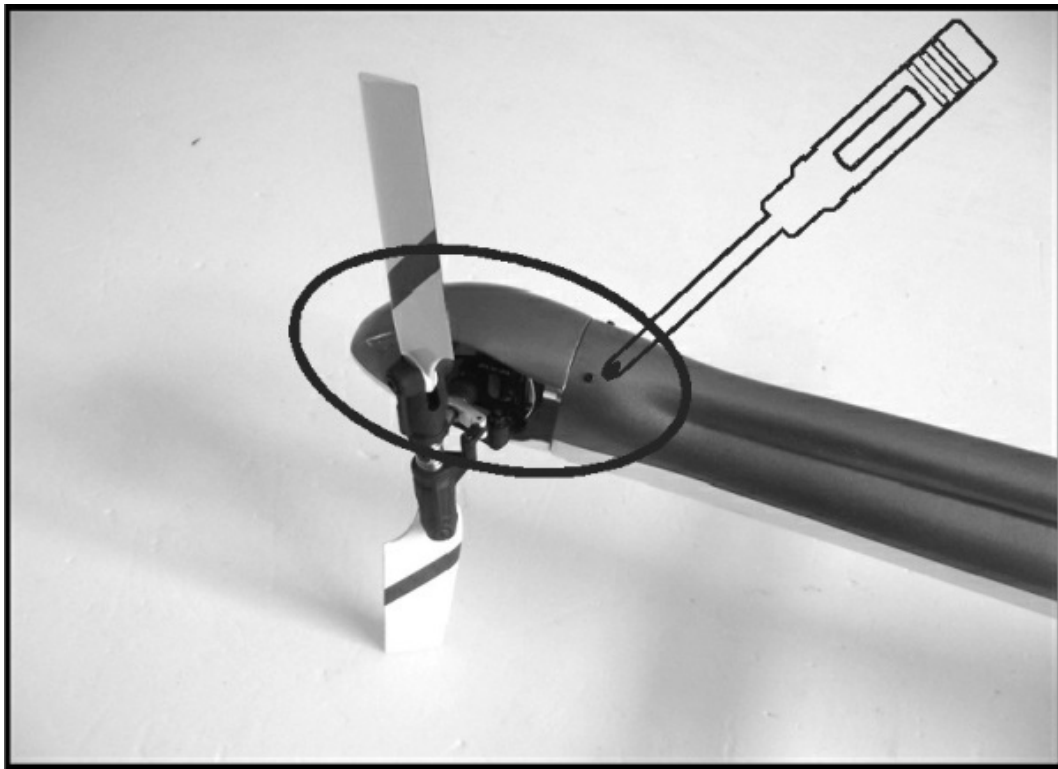


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4.15. The screw down the tail section from below as shown.

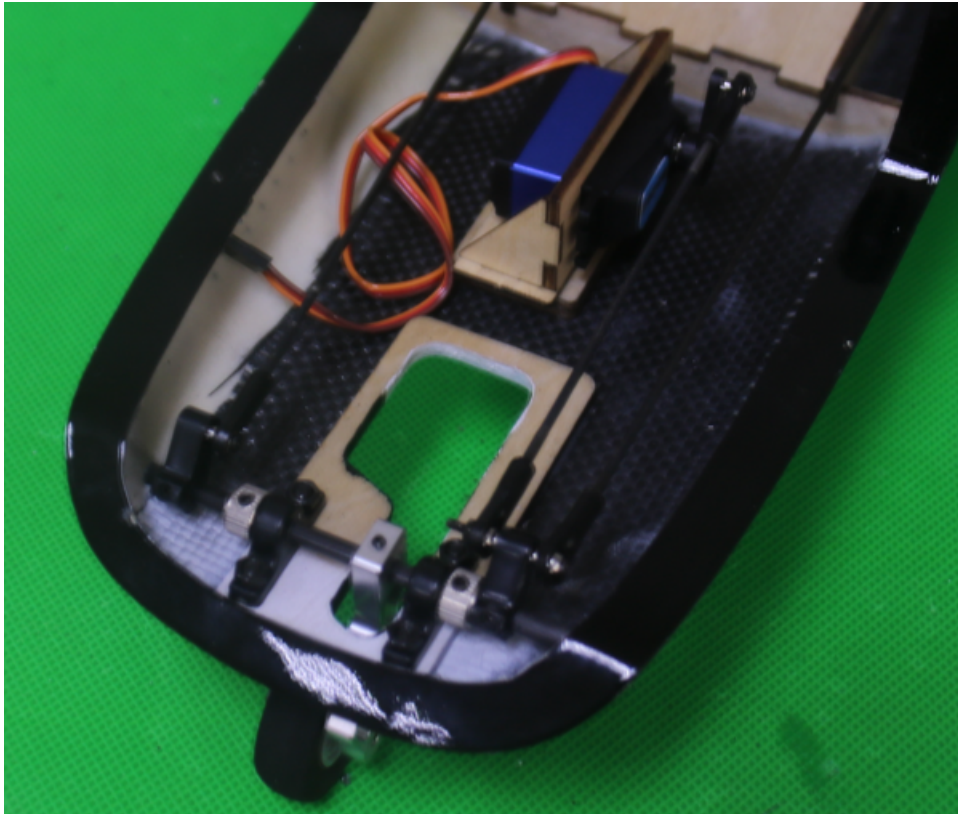


4.16. Install the tail cap.

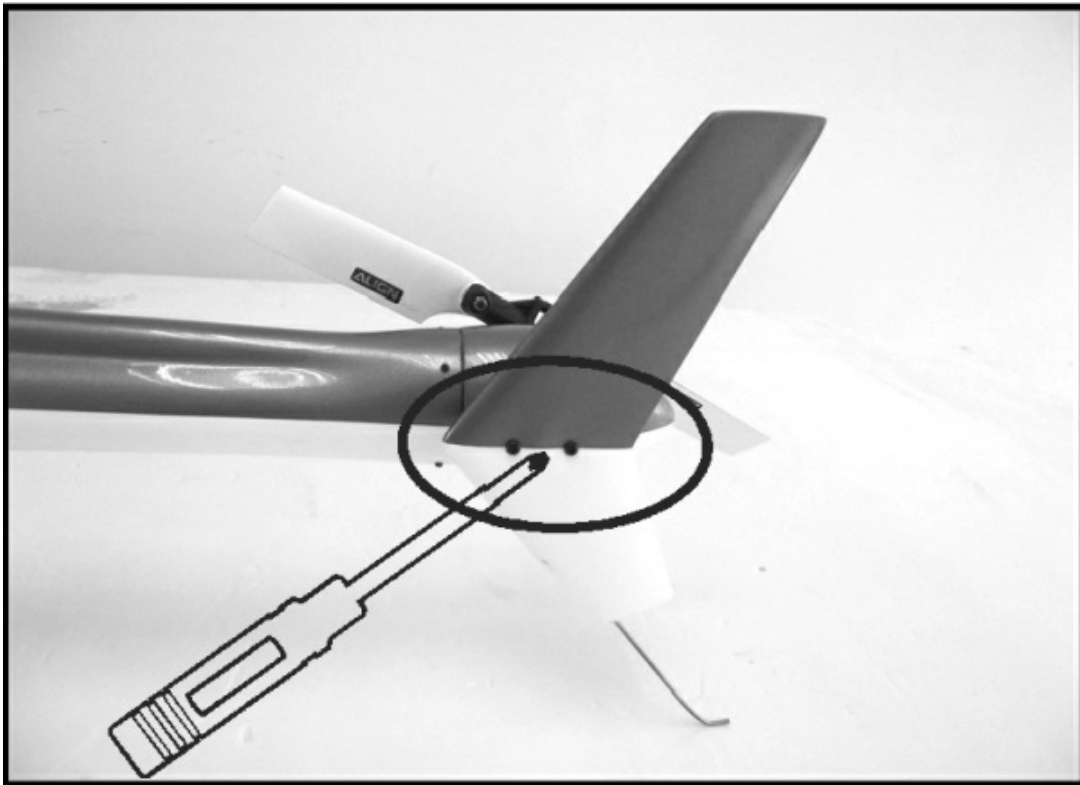


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- 4.17. Lock the retract servo using screws M2x8 in place.



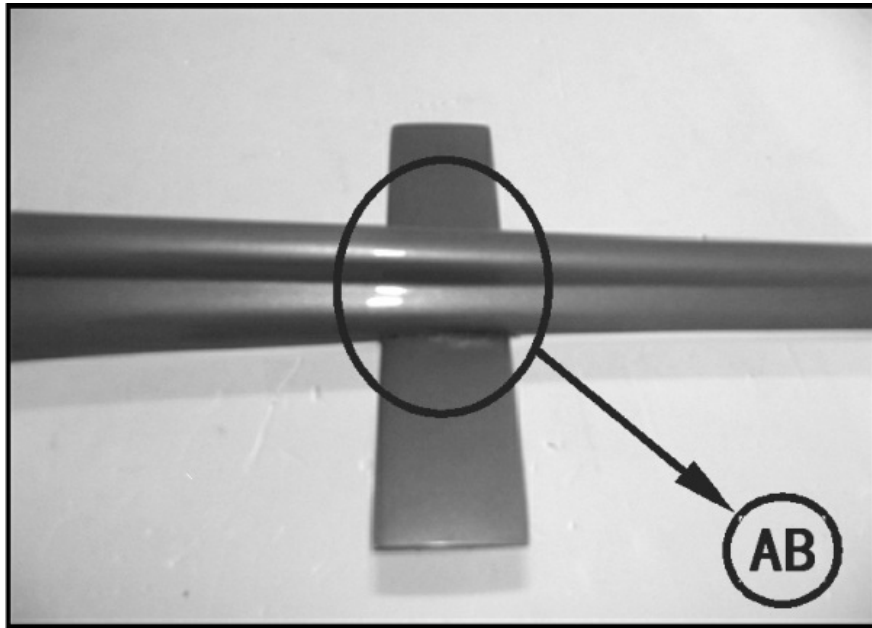
- 4.18. Mount the tail fin as shown with screws.



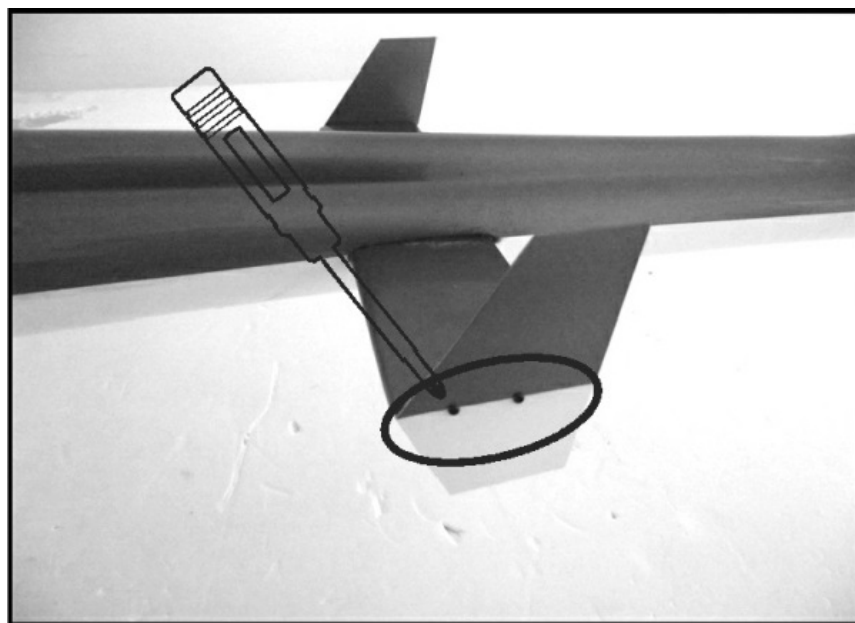
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4.19. To properly install the tail wings, please follow these instructions carefully:

Ensure that all other components are installed before gluing the tail wings. Use glue to secure the tail wings in place. We recommend using a slow-setting epoxy glue, as a quick-setting glue may not allow enough time for adjustment. While the glue is setting, use tape to keep the wings at the correct angle. To do this, connect both tip ends over the top of the boom using two or three strips of masking or duct tape. Do not rely on the grooves angles on the boom to guide the placement of the wings, as manufacturing tolerances may result in these grooves being inaccurate. Once the glue is applied, check the placement of the wings using a perpendicular mounting. This can be done by looking at the model from the nose towards the tail, as well as from above.

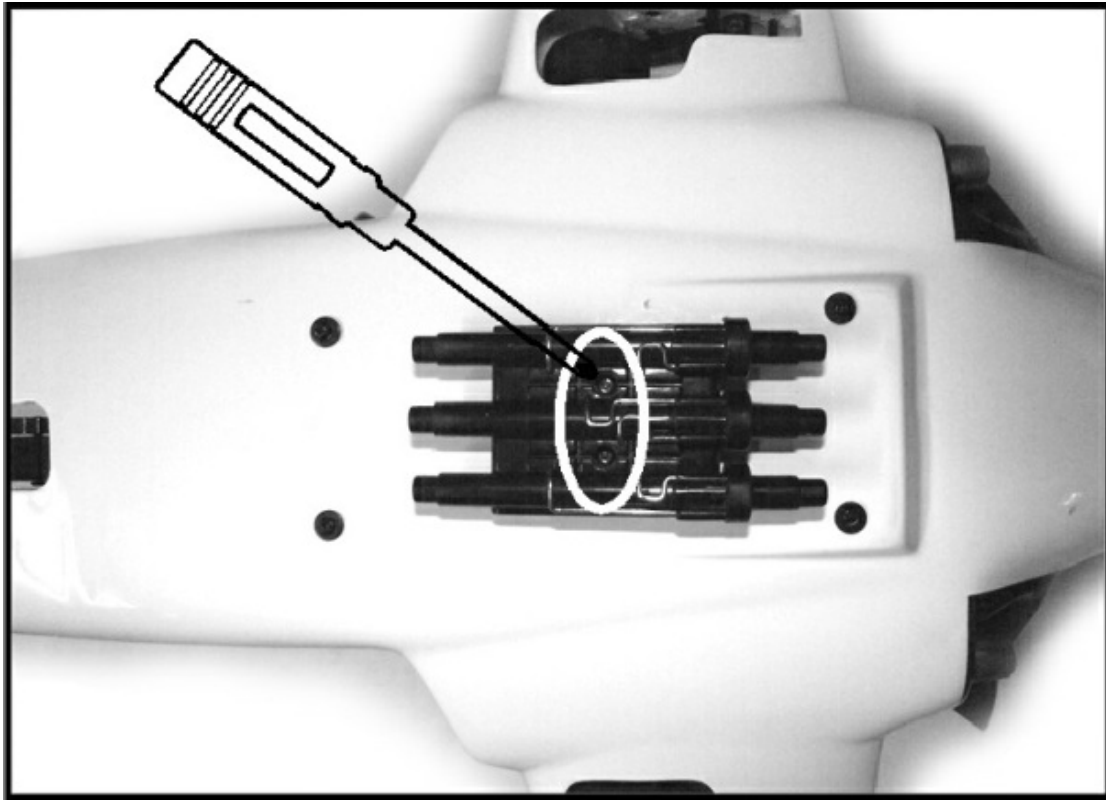


4.20. Mount the vertical tail wings with screws after the glue has settled.

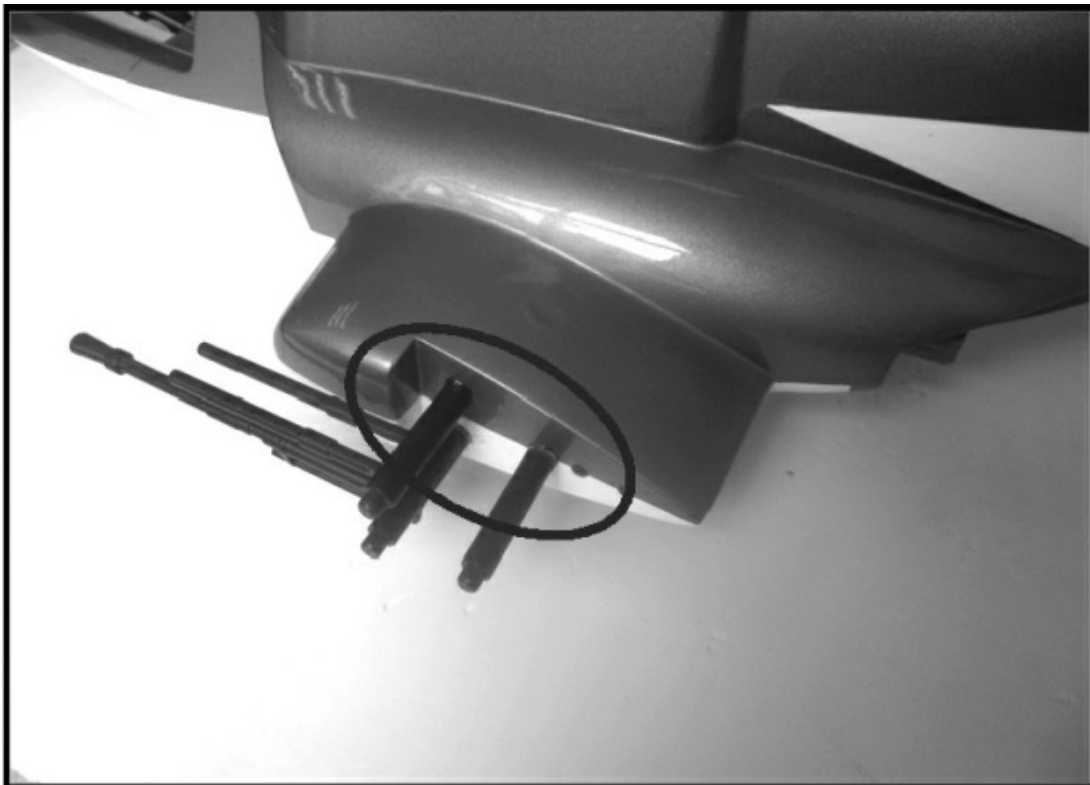


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- 4.21. Mount the rocket launcher with screws as shown.



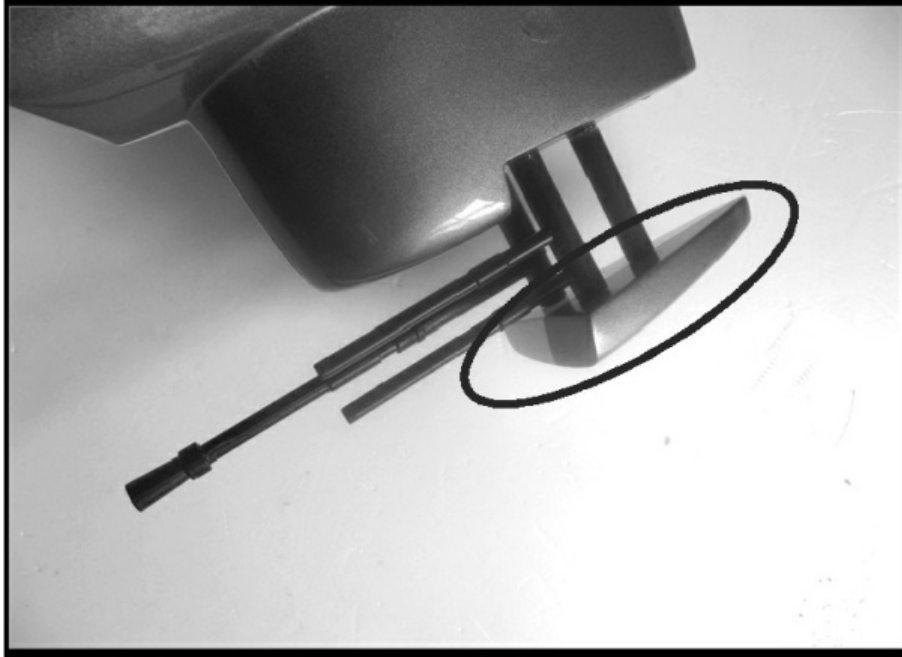
- 4.22. Use glue to securely attach the machine gun parts into the fuselage as shown on both sides.



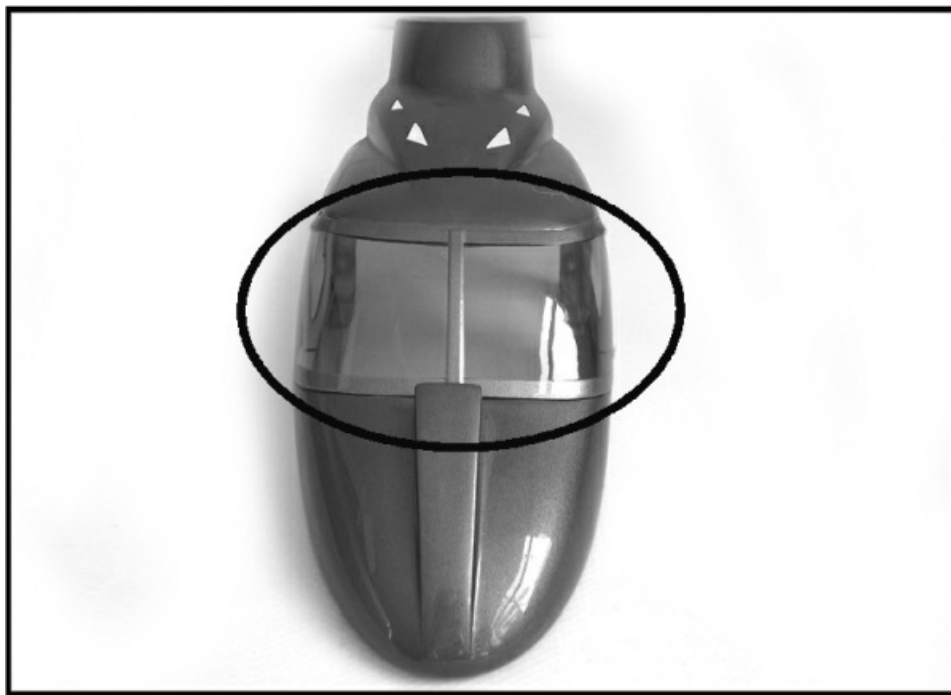


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4.23. Then use glue to attach the end plate on both sides. Match the painting of the fuselage!



4.24. Apply small amounts of slow-setting yellow glue to the area where the window will be installed. Carefully position the window into place, ensuring that it is properly aligned and seated securely. Allow sufficient time for the glue to dry completely before handling or operating the model. We recommend using a slow-setting yellow glue for best results, as this will provide a strong and durable bond. Do not attempt to install windows using super glue (cyanoacrylate-based adhesives), as the fumes produced by the glue can leave hard-to-remove white stains on painted surfaces.



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## 5. SPAREPART LIST

AW470PJ001		470 飞狼前头	470 Airwolf canopy
AW470PJ002		470 飞狼前窗	470 Airwolf front window
AW470PJ003		470 飞狼全套窗	70 Airwolf all window
AW470PJ004		470 飞狼机枪	470 Airwolf side guns
AW470PJ005		470 飞狼尾巴	470 Airwolf tail cap
AW470PJ006		470 飞狼平垂尾	470 Airwolf tail fins
AW470PJ007		470 飞狼导弹	470 Airwolf rocket pod
AW470PJ008		470 飞狼脚架	470 Airwolf landing gear
AW470PJ009		470 飞狼收轮组	470 Airwolf retract hardware
AW470PJ010		470 飞狼固定件	470 Airwolf mounting hardware
AW470PJ011		470 飞狼尾马达固定件	470 Airwolf tail motor mount

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## 6. FULLY ASSEMBLED FUSELAGE



### Specifications:

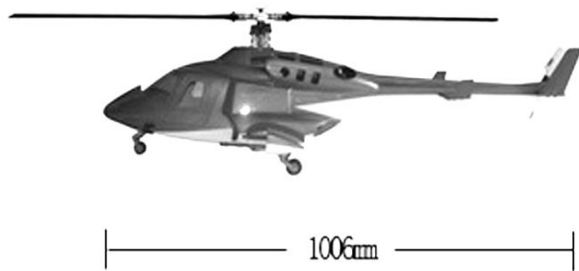
Length: 1006mm

Height: 226mm

Width: 385mm

Weight: 710g

Suitable for Align T-REX 470 and similar mechanics



We wish you a lot of fun with the fuselage!

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