

# ROBAN

## Instruction manual

Scale Fuselage BO 105

450 size



### 1. INTRODUCTION

Thank you for buying Roban Model products. The 340 size BO-105 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.

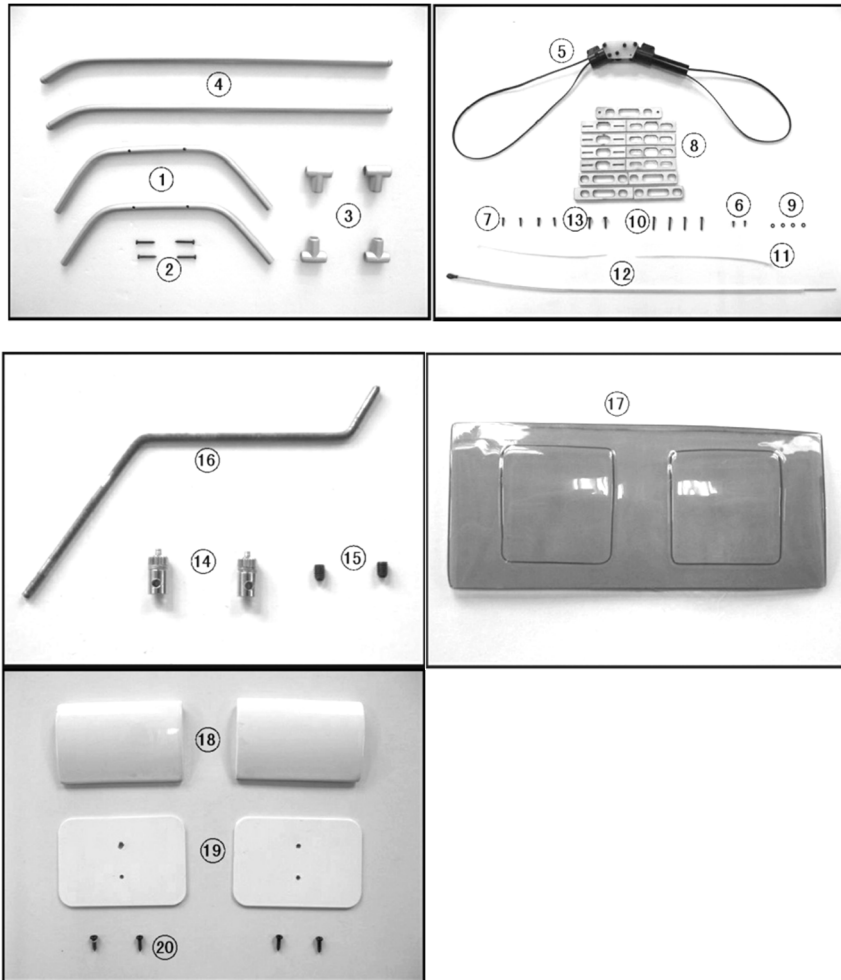
### **Pilot Responsibility:**

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.



## CONTENTS

| Item No. | Description         | Quantity |
|----------|---------------------|----------|
| 1        | Landing gear struts | x2       |
| 2        | Screw A2x12         | x4       |
| 3        | T-connectors        | x4       |
| 4        | Landing gear skins  | x2       |
| 5        | Rear redirection    | x2       |
| 6        | Screw A2x5          | x2       |
| 7        | Screw M2x8          | x4       |
| 8        | Washers             | x7       |
| 9        | Washer M2           | x4       |
| 10       | Screw M2x18         | x4       |

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|    |                      |    |
|----|----------------------|----|
| 11 | Cable ties 2x145     | x2 |
| 12 | Rear linkage         | x1 |
| 13 | Screw A2x12          | x2 |
| 14 | Linkage connectors   | x2 |
| 15 | Set screw M3         | x2 |
| 16 | Tail skid            | x1 |
| 17 | Windows              | x2 |
| 18 | Horizontal tail unit | x2 |
| 19 | Vertical tail unit   | x2 |
| 20 | Screw A2x5           | x4 |

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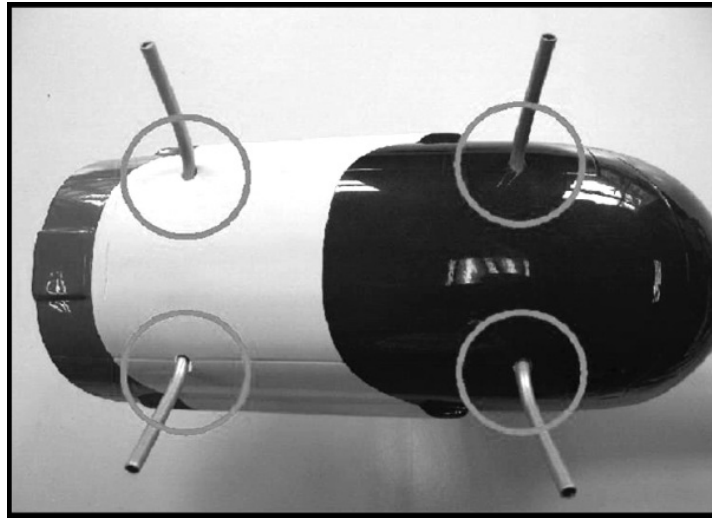
## REQUIRED TOOLS / CONSUMABLES

| <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               |

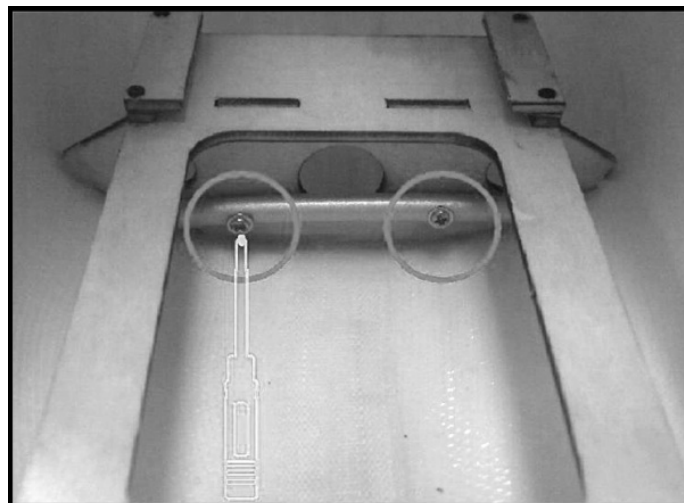
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## 4. INSTALLATION

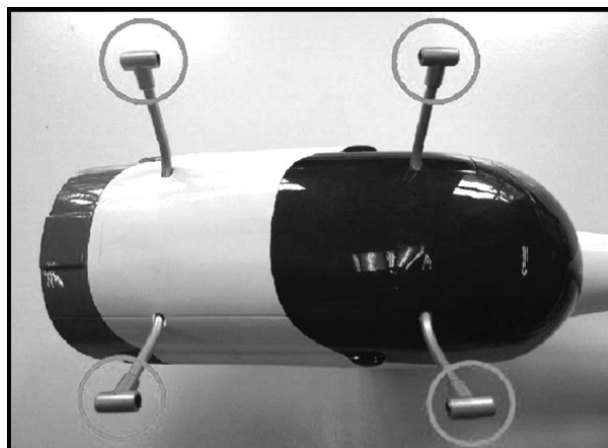
4.1 Insert the landing gear linkage into the fuselage as shown.



4.2 Secure the landing gear with 4 pieces of Screw A2x12 as shown.

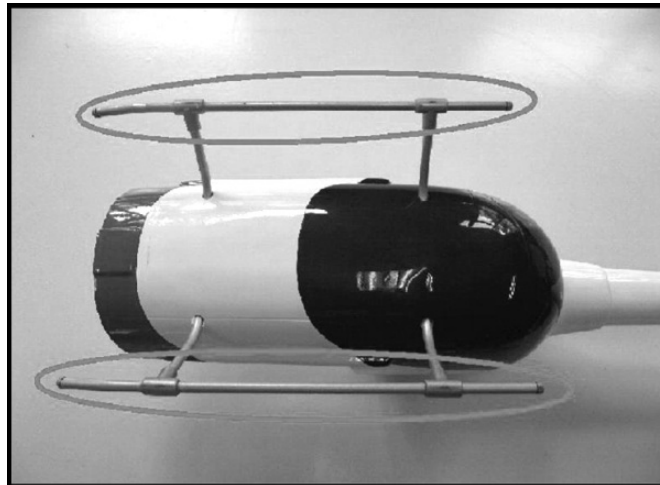


4.3 Install the T-connectors as shown.

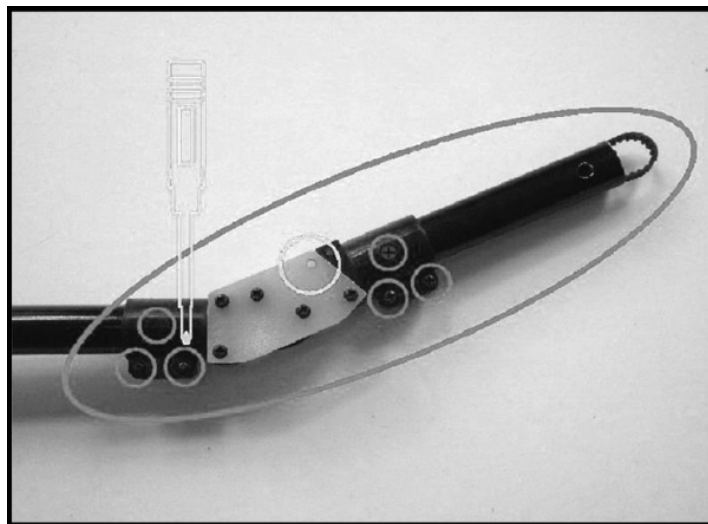


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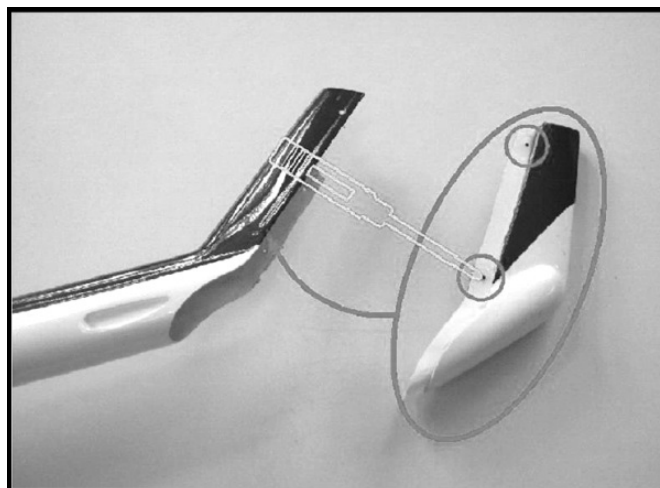
- 4.4 Mount the skids in the connectors and glue them.



- 4.5 Attach the tail frame to the mechanism as shown. Remove a screw to be able to pivot the tail downward.

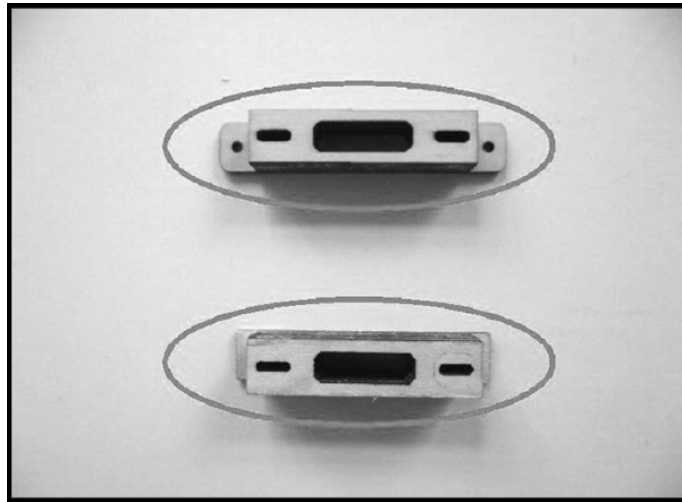


- 4.6 Remove the tail cover.

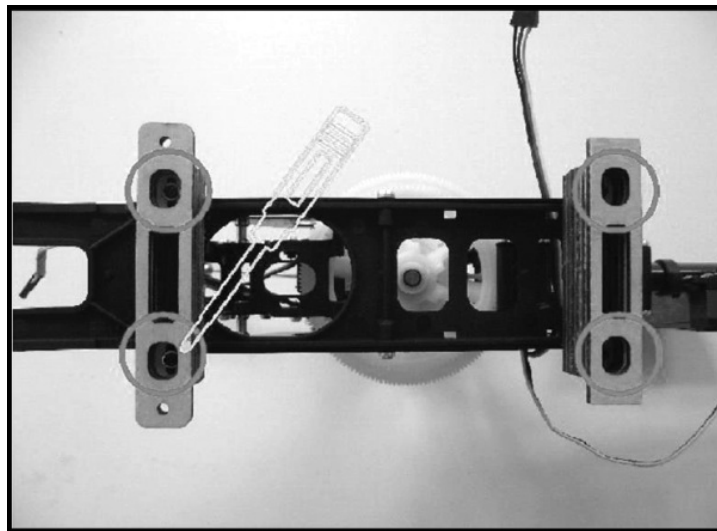


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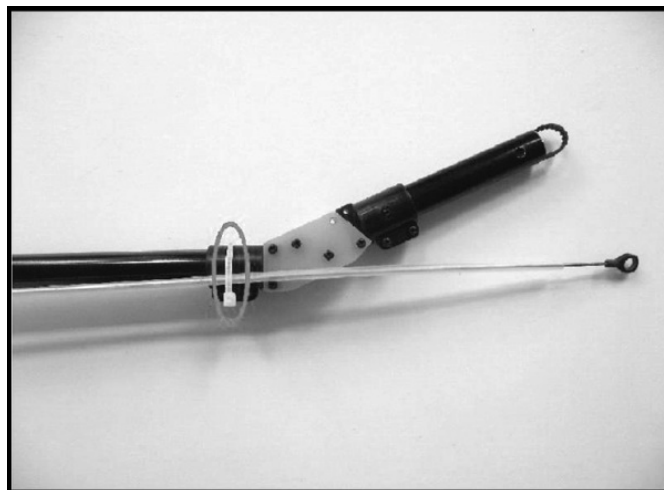
4.7 Glue the washers.



4.8 Mount them on the mechanism.



4.9 Secure the tail control with cable ties as shown.

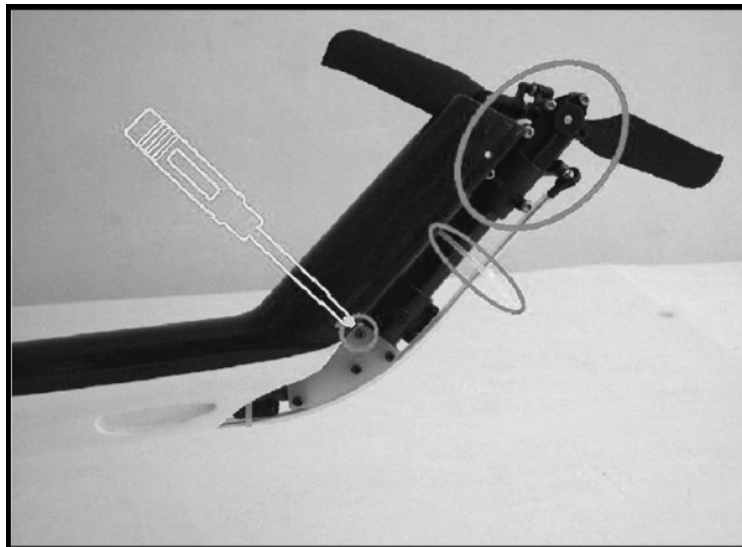


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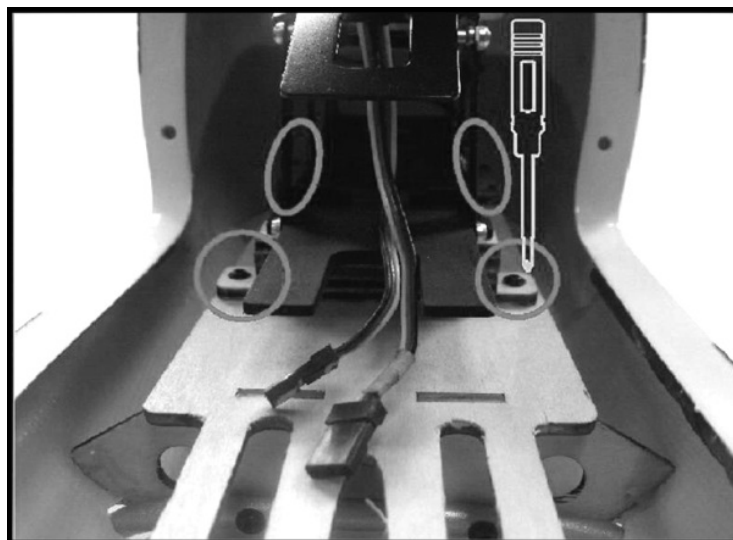
4.10 Insert the mechanism into the fuselage as shown.



4.11 Install the tail propeller and reinsert the screw.



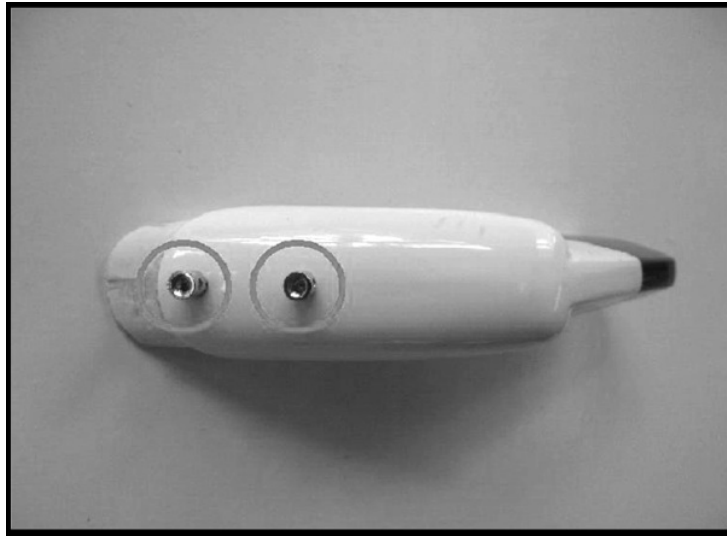
4.12 Install the mechanism in the fuselage with 4 pieces of Screw A2x12.



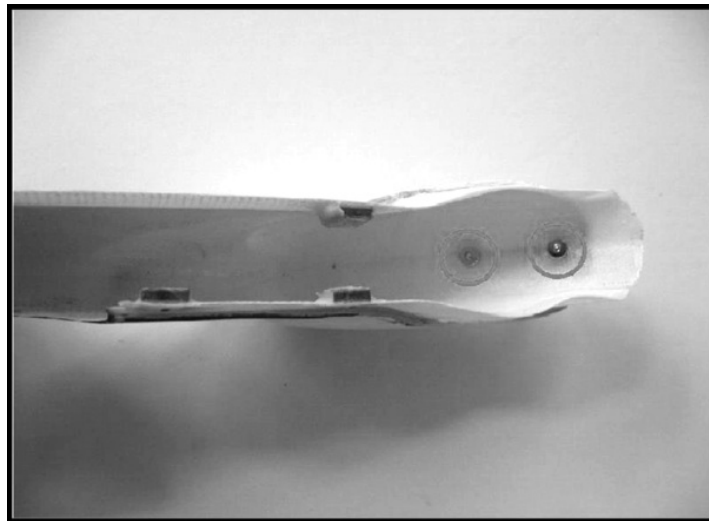


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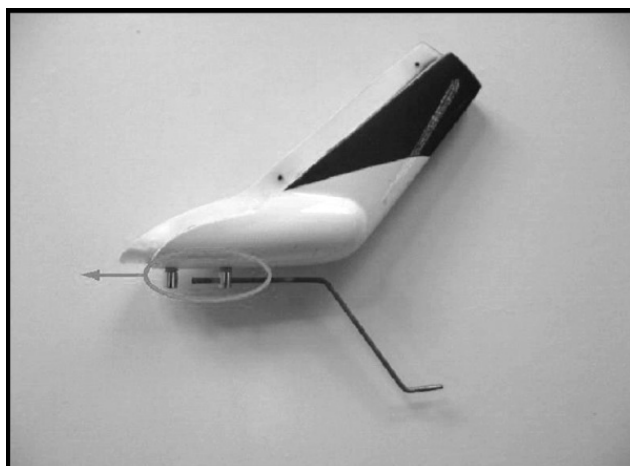
4.13 Install the linkage holders in the tail cover as shown.



4.14 Tighten the opposite side using the nut.

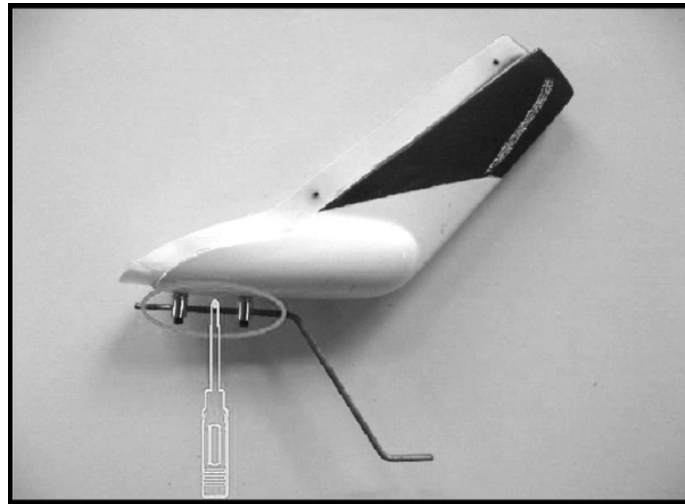


4.15 Install the tail skid as shown.

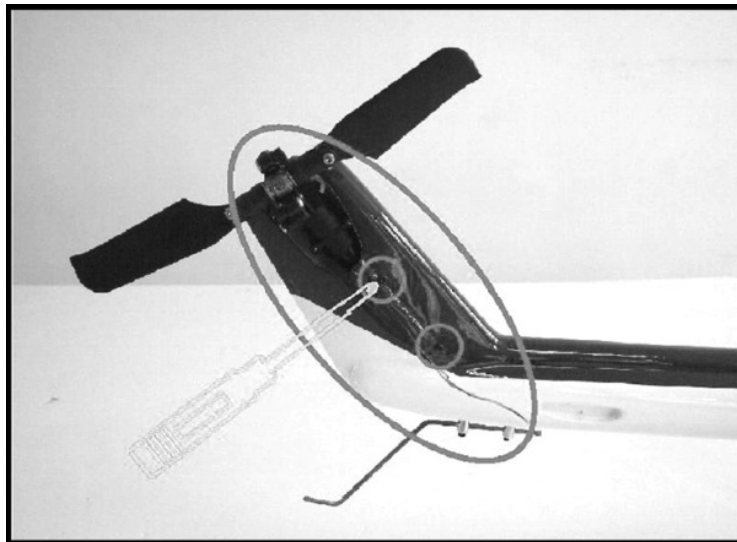


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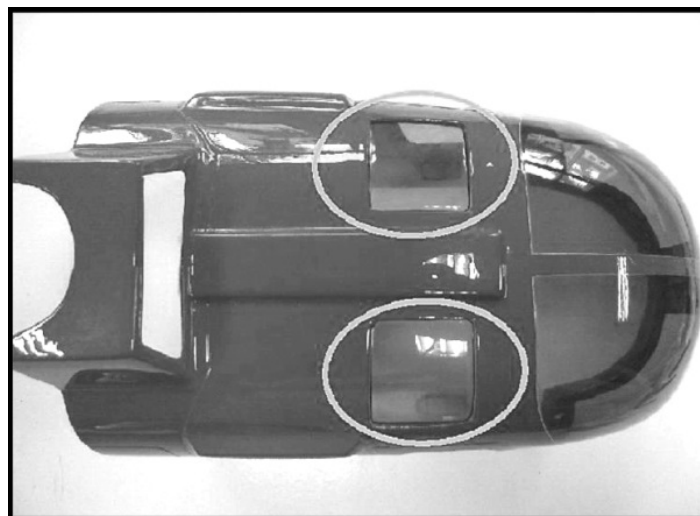
4.16 Secure the tail skid with Set Screw M3 as shown.



4.17 Install the tail cover.

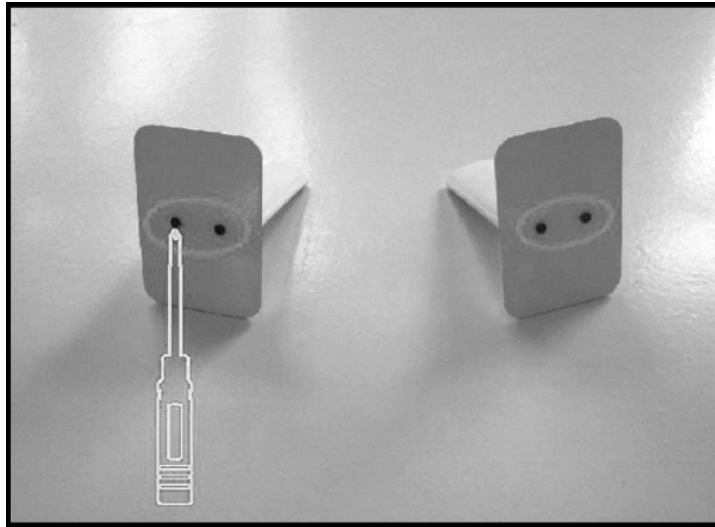


4.18 Install the window panes.

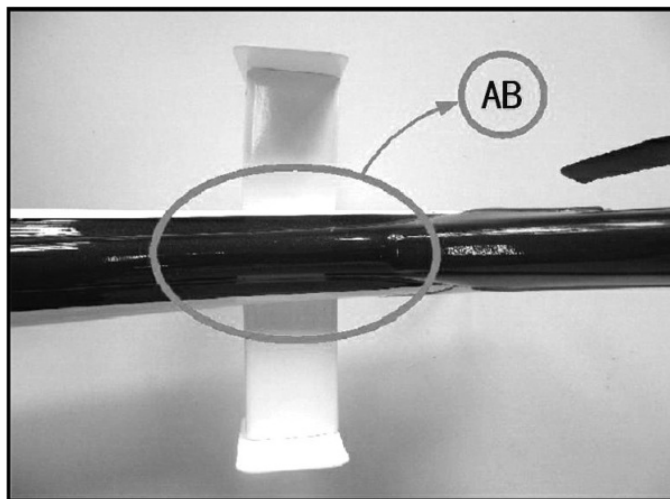


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4.19 Install the tail units.



4.20 Glue the tail units.



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## 4. SPAREPART LIST

|             |            |   |                   |                                    |
|-------------|------------|---|-------------------|------------------------------------|
| HSB-B0450YE | B0450PJ001 |    | 450B0105 前<br>头含窗 | 450 B0-105<br>canopy               |
|             | B0450PJ002 |    | 450B0105 顶<br>窗   | 450 B0-105<br>side window          |
|             | B0450PJ003 |    | 450B0105 平<br>垂尾  | 450 B0-105<br>tail wings           |
|             | B0450PJ004 |    | 450B0105 尾<br>波箱  | 450 B0-105<br>elevated<br>tail set |
|             | B0450PJ005 |   | 450B0105 脚<br>架组  | 450 B0-105<br>landing<br>gear      |
|             | B0450PJ006 |  | 450B0105 水<br>印   | 450 B0-105<br>decals               |
|             | B0450PJ007 |  | 450B0105 固<br>定件  | 450 B0-105<br>mounting<br>hardware |

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## 4. FULLY ASSEMBLED FUSELAGE



### Specifications:

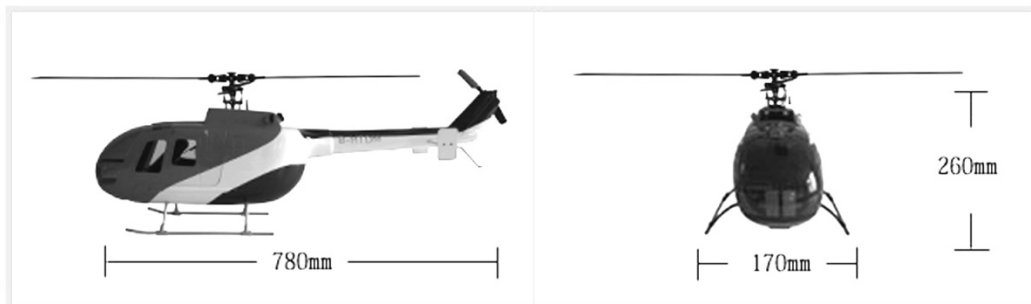
Length: 780mm

Height: 260mm

Width: 170mm

Weight: 375g

Suitable for Align TREX450 and derivatives



We wish you a lot of fun with the fuselage!

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