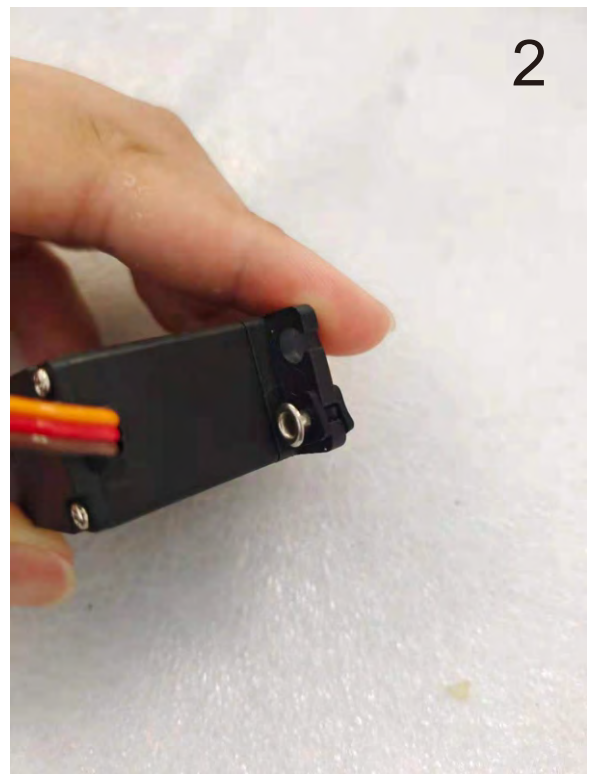
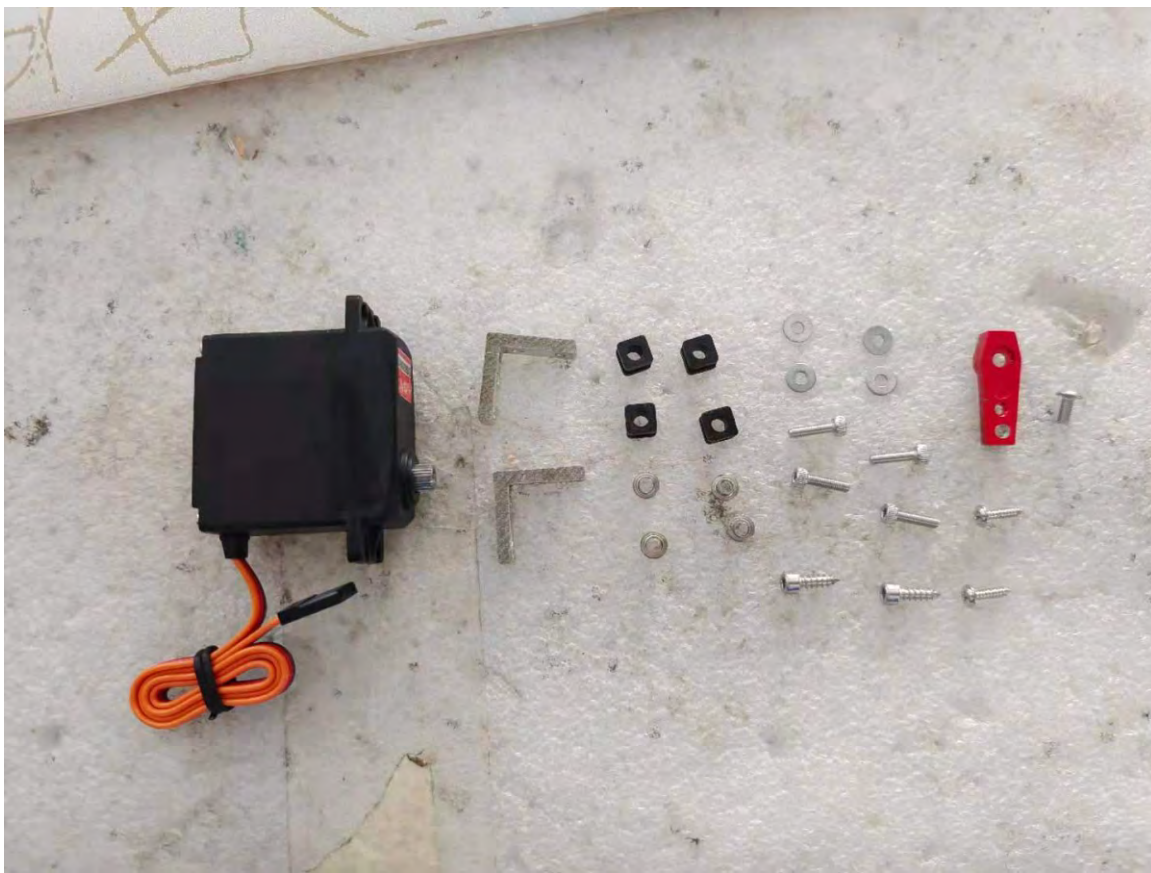


### Specifications

翼展 Wing span	122in/3100mm
机身长度 Fuselage length	86.3in/2192mm
翼面积 Wing area	1371.75sp.in/88.5 sp.dm
重量 Weight	25-28kg (取决于引擎) Depends on engine
引擎 Engine	2T 50cc X2 4T 60-85cc X2
油箱 Tank	500cc-1000cc (可选Optional)

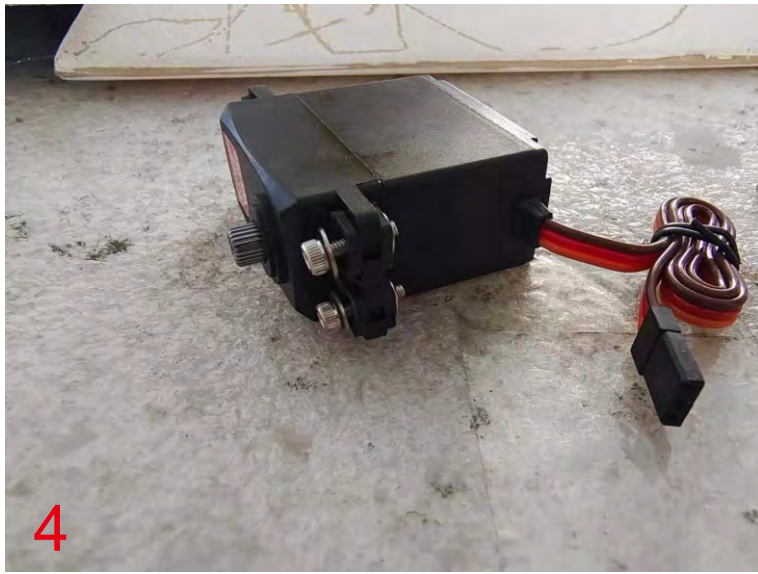
# 舵机支架 的安装步骤

Installation  
steps of servo  
support



1. 2. 3减震橡胶安装  
注：对于发动机震动源  
大的建议安装减震橡胶

1. 2. 3Damping rubber installation  
Note: For engine vibration sources  
For larger ones, install  
shock-absorbing rubber



4 如图  
螺丝规格：M2.5x10内六角  
垫圈规格： $\phi 2.6 \times 7 \times 0.5$

4 As shown  
Screw specification: M2.5x10  
inner hexagon  
Washer specifications:  $\phi 2.6 \times 7 \times 0.5$



5.6 如图  
先确认舵机输出轴的安装  
位置，再确定安装支架的  
方向。

**注：要在螺纹上涂抹适量的  
中等强度螺丝锁固剂**

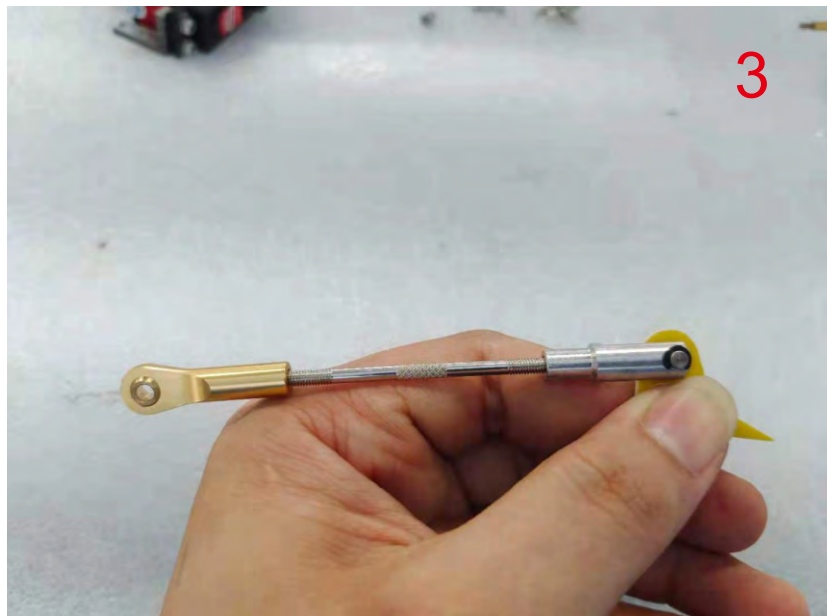
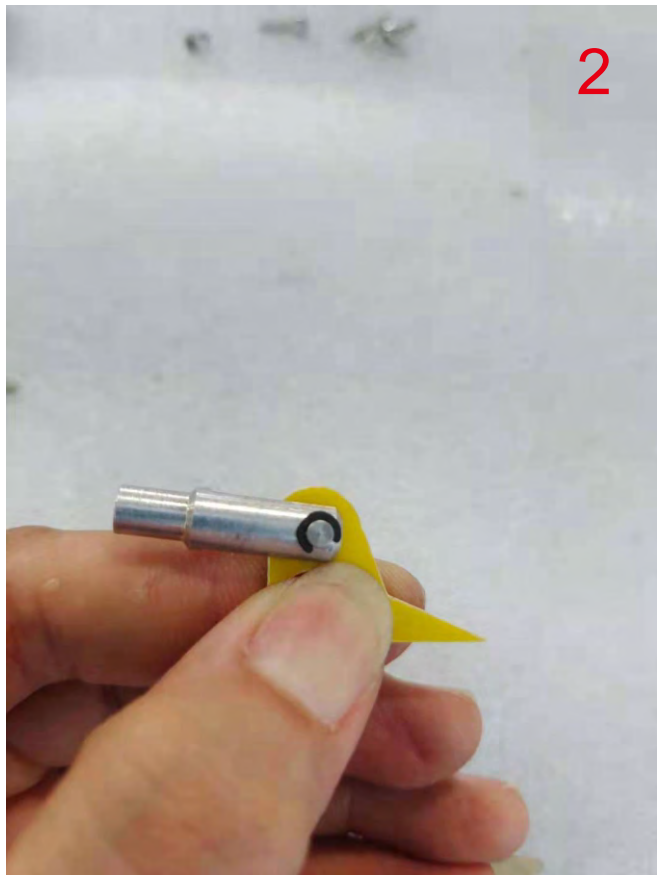
5.6 As shown  
output shaftPosition, and then  
determineFirst confirm the  
installation of the servo motor  
the mounting bracketDirection.

**Note:Apply a moderate amount  
of medium-strength thread locking  
agent on the threads**



# 推杆安装

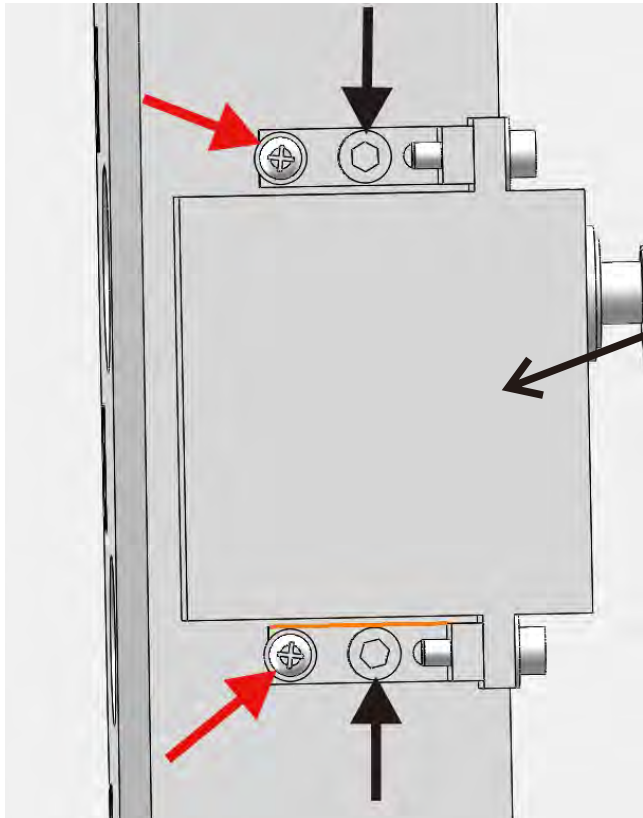
## Push rod installation



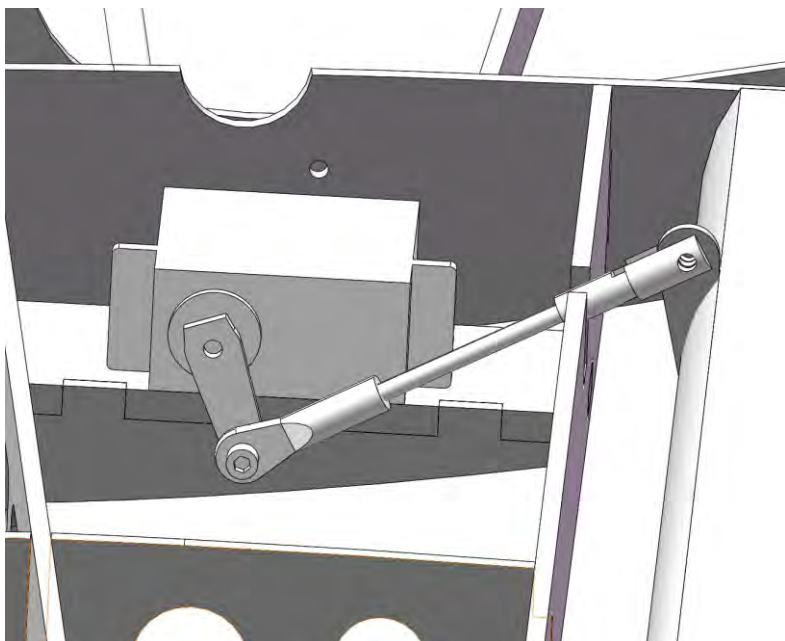
# 副翼舵机安装

如图1黑色箭头指的螺丝规格：M3x10内六角自攻螺丝  
红色箭头指的螺丝规格：M2x10十字自攻螺丝

As shown in Figure 1, the black arrow refers to the screw specification: M3x10 hexagon socket self-tapping screw  
The red arrow refers to the screw specification: M2x10 Phillips self-tapping screw



标准舵机  
Standard Servo



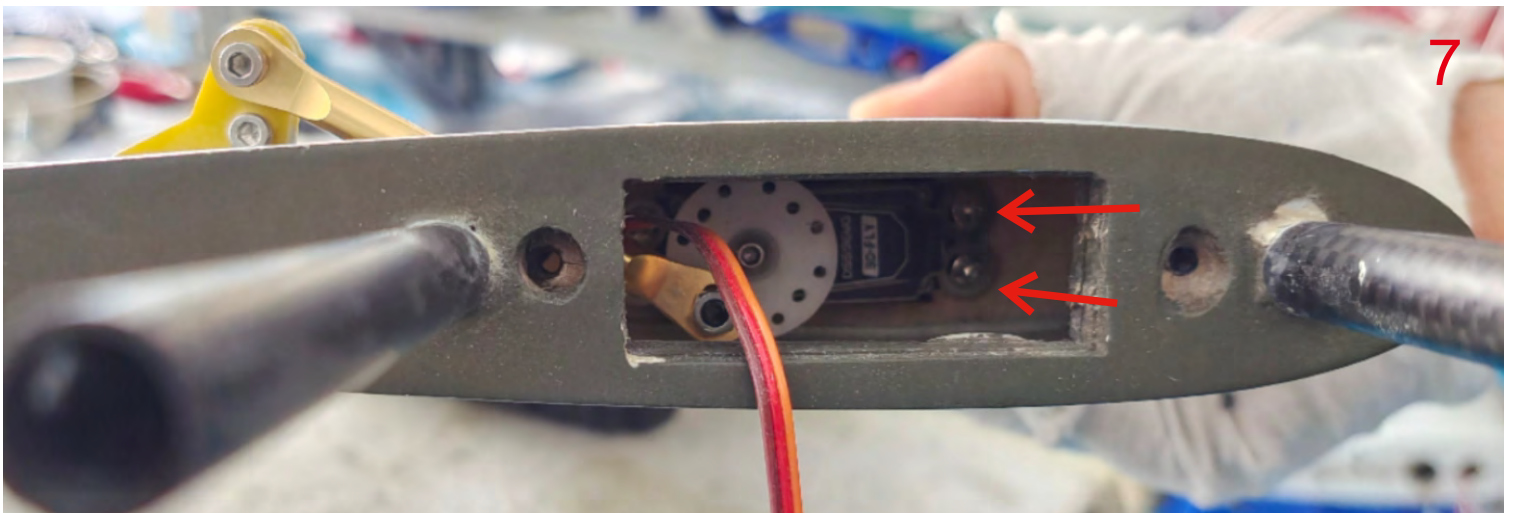
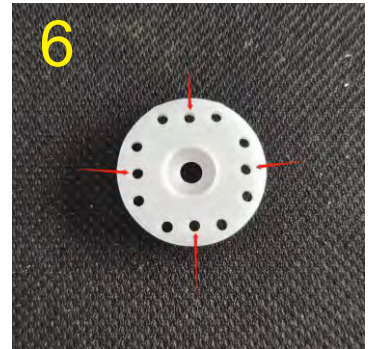
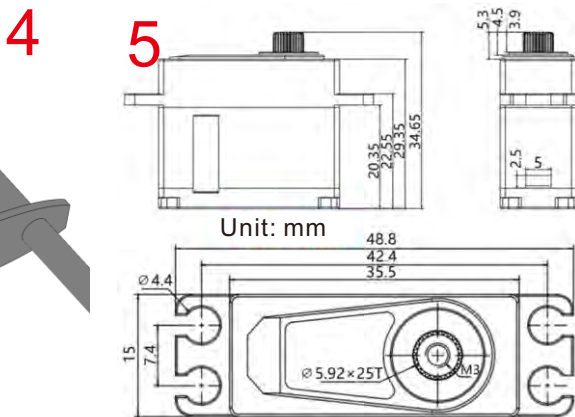
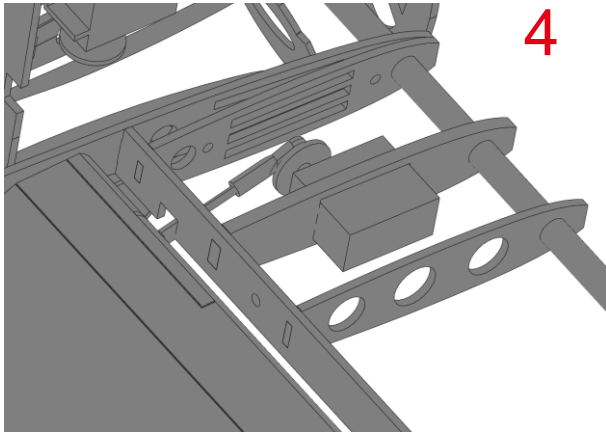
# 水平尾舵机安装

- ①如图5所示，选用相应尺寸的舵机。需要2个同尺寸舵机，分左右安装。
- ②确认好舵机输出轴方位后装入。然后用螺丝规格：M2.6x14十字自攻螺丝固定，如图7红色箭头所示。
- ③选用  $\phi 3$  孔径的球头推杆，先安装在圆形舵盘上，如图6红色箭头所标的4个孔的其中的一个孔，调节适当的长度后装入舵机与舵面连接处。

As shown in Figure 5, select a steering gear of the corresponding size. Two servos of the same size are required, which are installed on the left and right sides.

Confirm the position of the output shaft of the steering gear and install it. Then use screw specifications: M2.6x14 Phillips self-tapping screws to fix, as shown by the red arrow in Figure 7.

Select a ball-end putter with a diameter of  $\phi 3$  and install it on the circular rudder disc first. Adjust one of the four holes marked by the red arrow in Figure 6, adjust the length to an appropriate length, and install it in the connection between the rudder and the rudder surface.



# 方向舵舵机安装

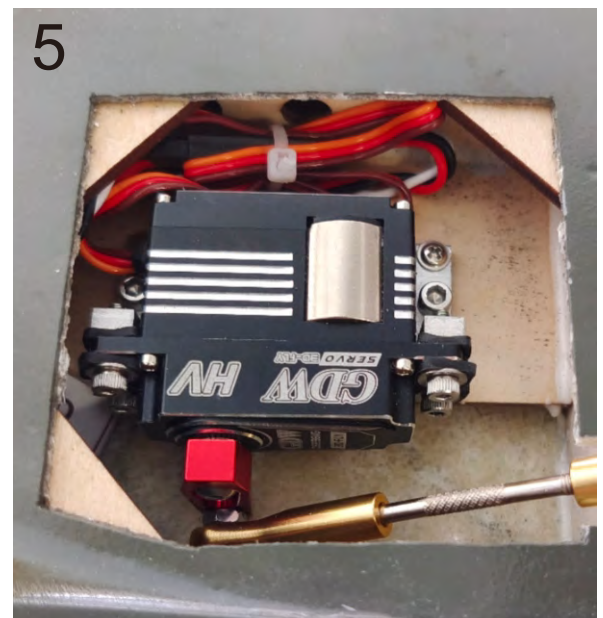
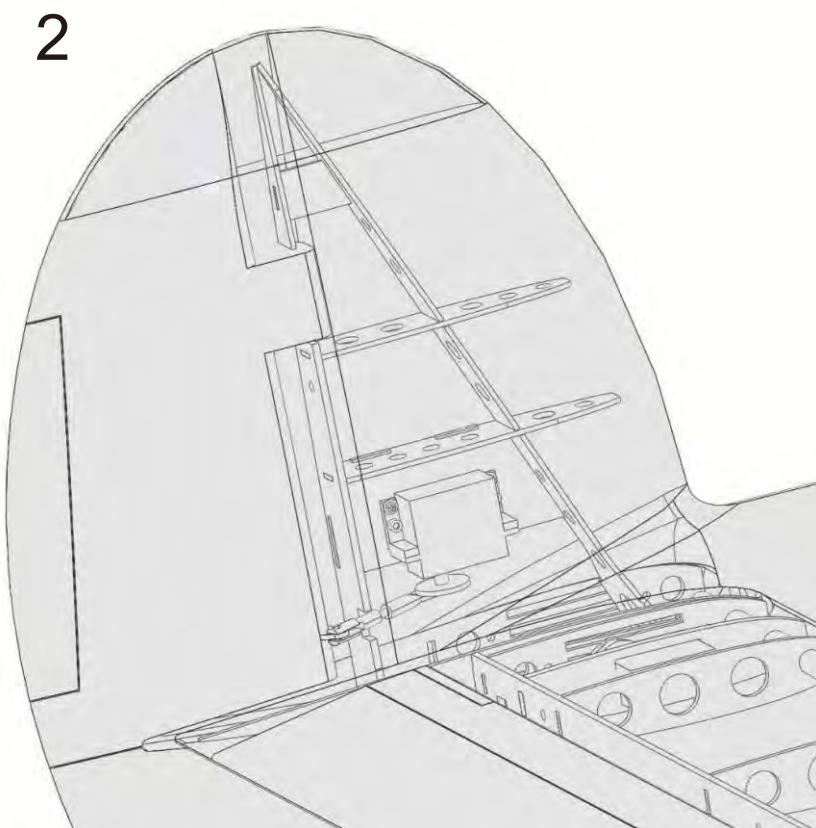
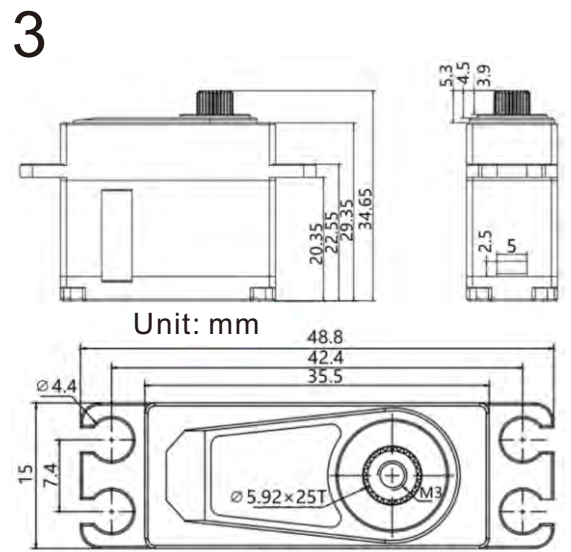
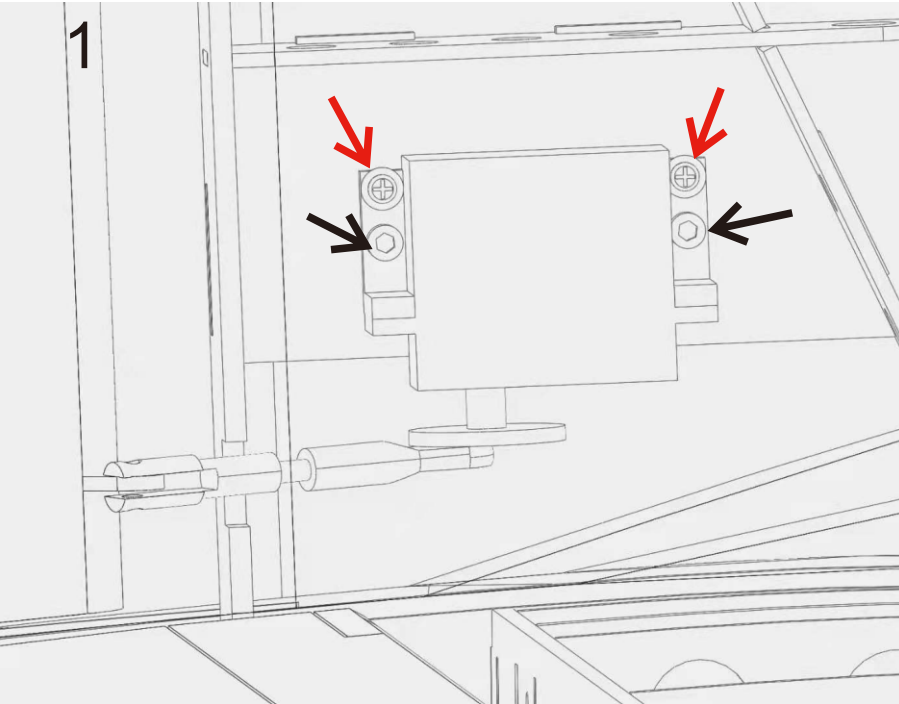
## Rudder servo installation

- ①如图3所示，选用相应尺寸的舵机。需要两个同规格的舵机安装上舵机支架（参考舵机支架安装步骤）
- ②如图1所示，黑色箭头指的螺丝规格：M3x10内六角自攻螺丝，红色箭头指的螺丝规格：M2x10十字自攻螺丝。
- ③选用  $\phi 3$  孔径的球头推杆，先安装在舵机臂上，调节适当的长度后装入舵机与舵面连接处。

As shown in Figure 3, select a steering gear of the corresponding size. Two servos of the same specification are required to install the servo bracket (refer to the installation steps of the servo bracket)

As shown in Figure 1, the black arrow refers to the screw specification: M3x10 internal hexagonal self-tapping screw, and the red arrow refers to the screw specification: M2x10 Phillips self-tapping screw.

Choose a ball-end push rod with a diameter of  $\phi 3$ , install it on the steering gear arm first, adjust the appropriate length, and then install it at the junction of the steering gear and the rudder surface.



# 襟翼舵机安装

## Flap servo installation

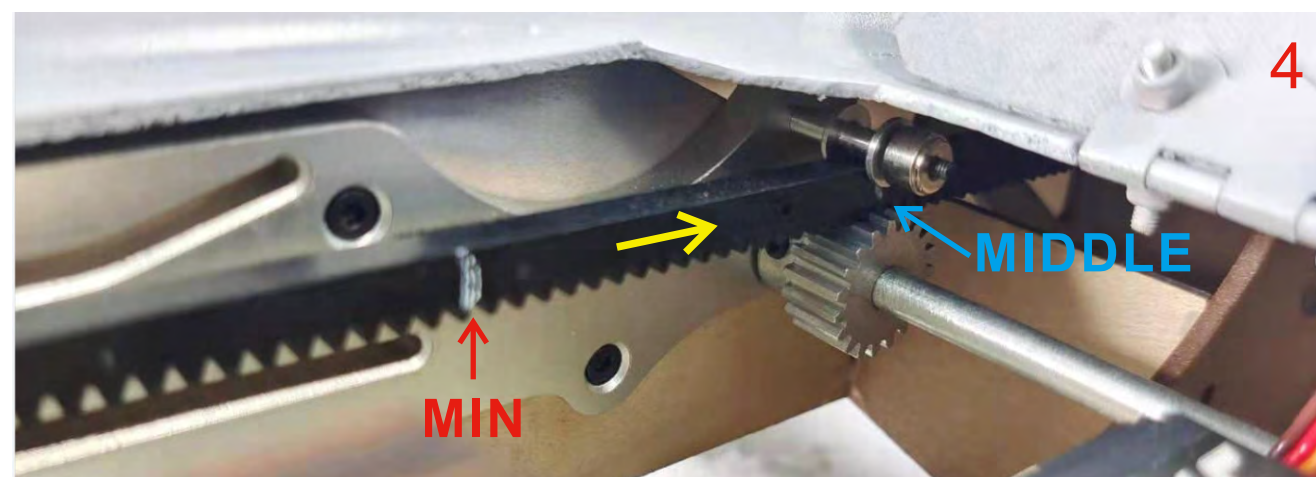
如图1所示，在齿条上标记最大限位、中立位、最小限位

As shown in Figure 1, mark the maximum limit, neutral position, and minimum limit on the rack



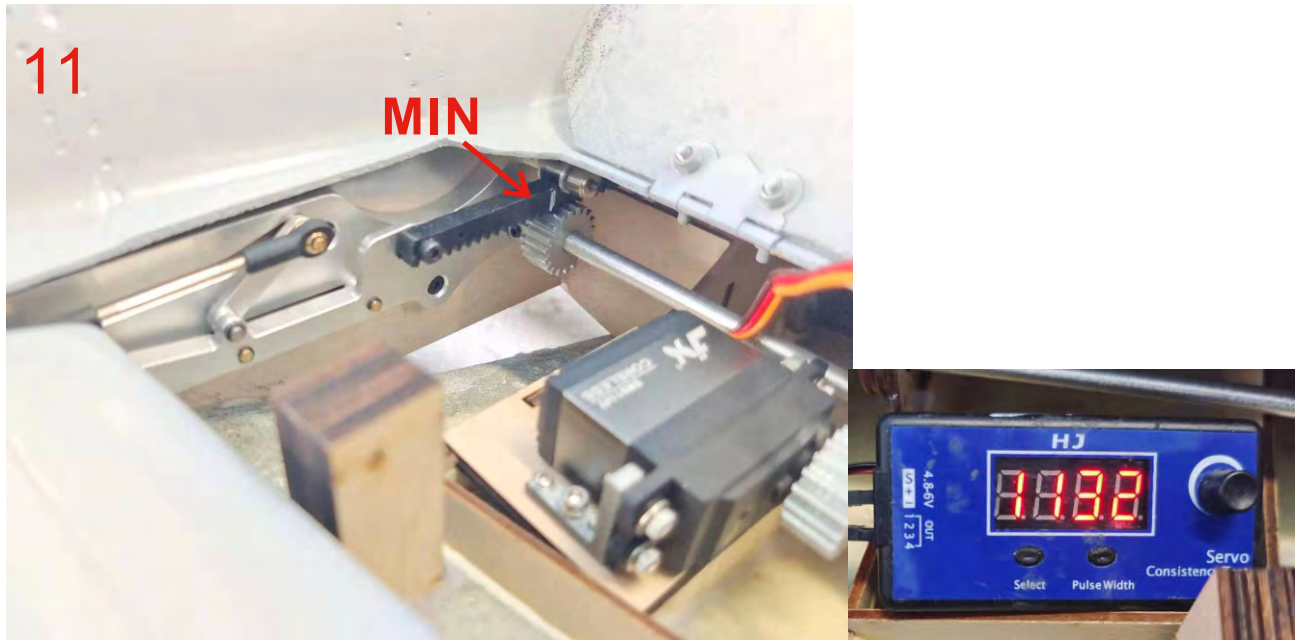
如图4所示，推动齿条，将中立位标记点对准齿条与齿轮的相切点

As shown in Figure 4, push the rack to align the neutral mark with the tangent point between the rack and the gear



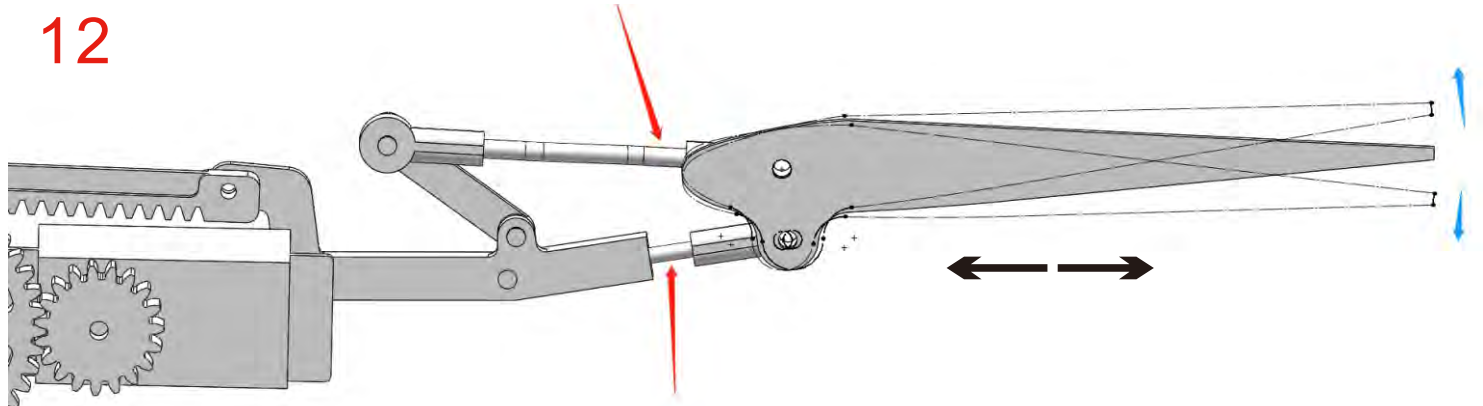






襟翼翼面的部分角度与少许的位移可以通过这两个连杆（图12红色箭头所示）进行相应的微调。

The partial angle and slight displacement of the flap wing surface can be fine-tuned by these two connecting rods (shown by the red arrow in Figure 12).

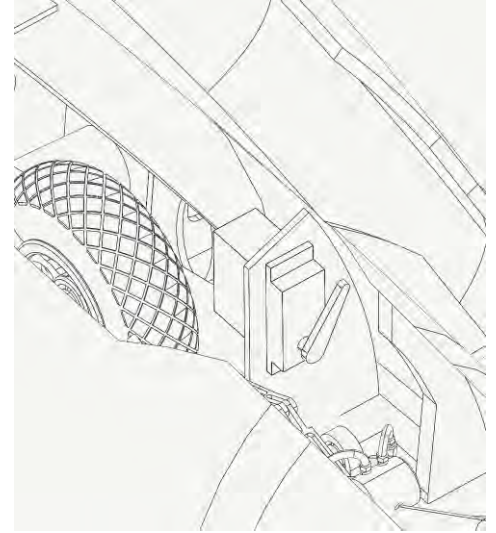
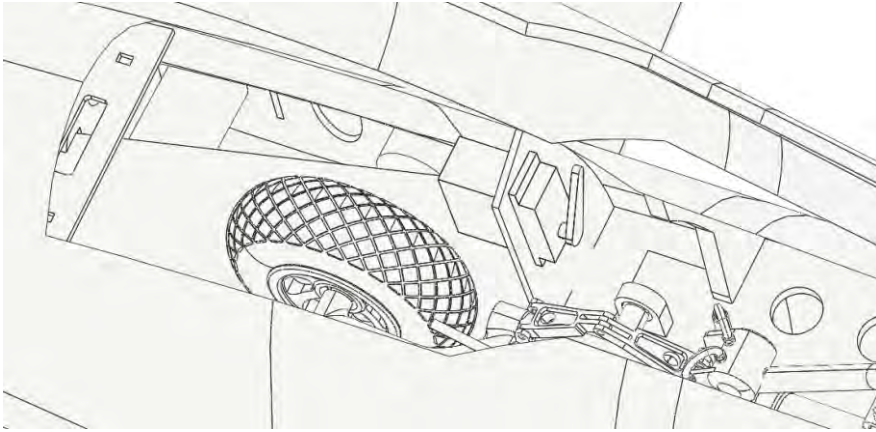


# 起落架舱门舵机安装

## Servo installation of landing gear door

### 前轮舱门

#### Front wheel hatch



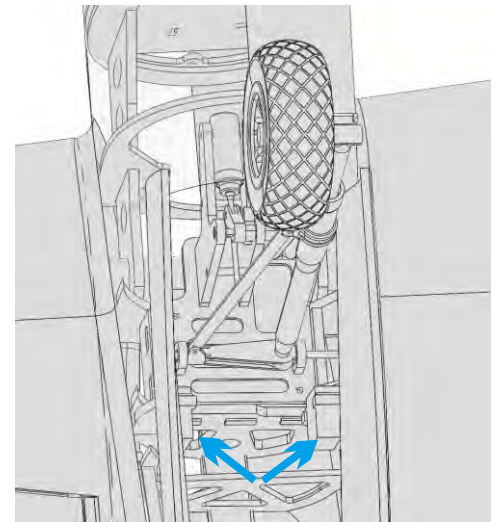
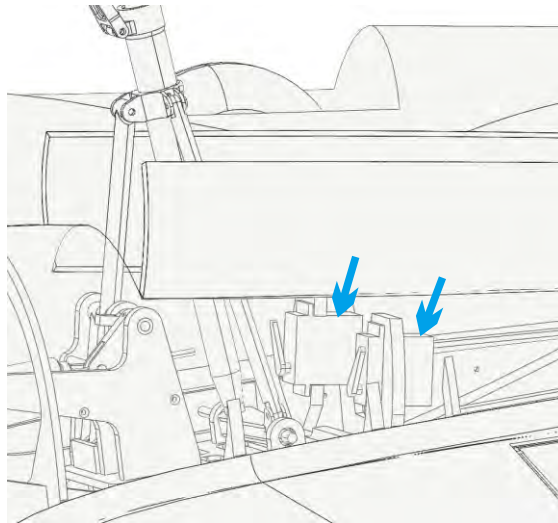
舵机使用螺丝规格：M3X10十字自攻螺丝固定  
Servo screw specifications: M3X10 cross self-tapping screws fixed

推杆螺丝固定孔  
Push rod screw fixing hole



### 后轮舱门

#### Rear wheel hatch



舵机使用螺丝规格：  
M3X10十字自攻螺丝  
固定  
Servo screw specifications:  
M3X10 cross self-tapping  
screws fixed

推杆螺丝固定孔  
Push rod screw fixing hole



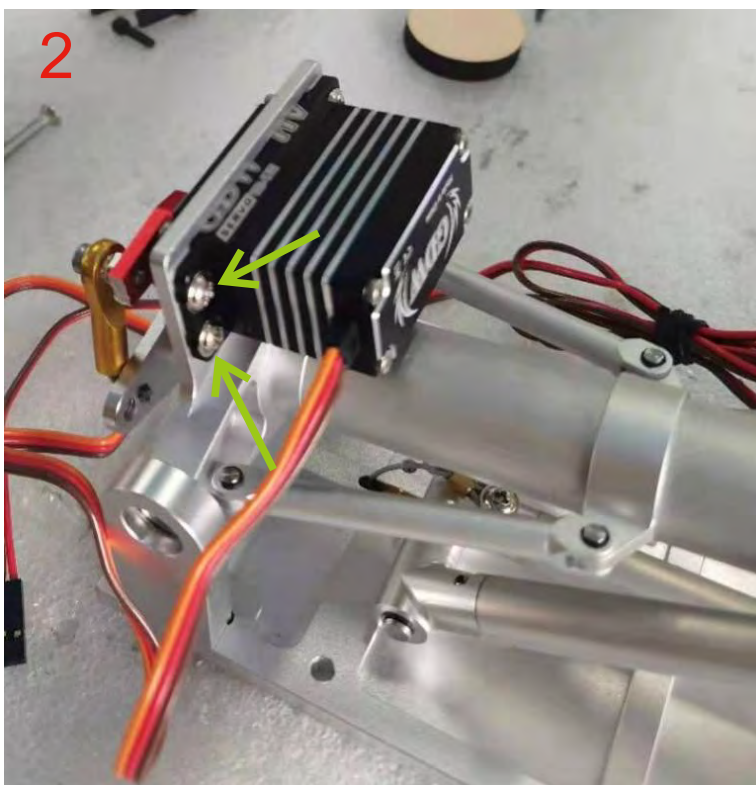
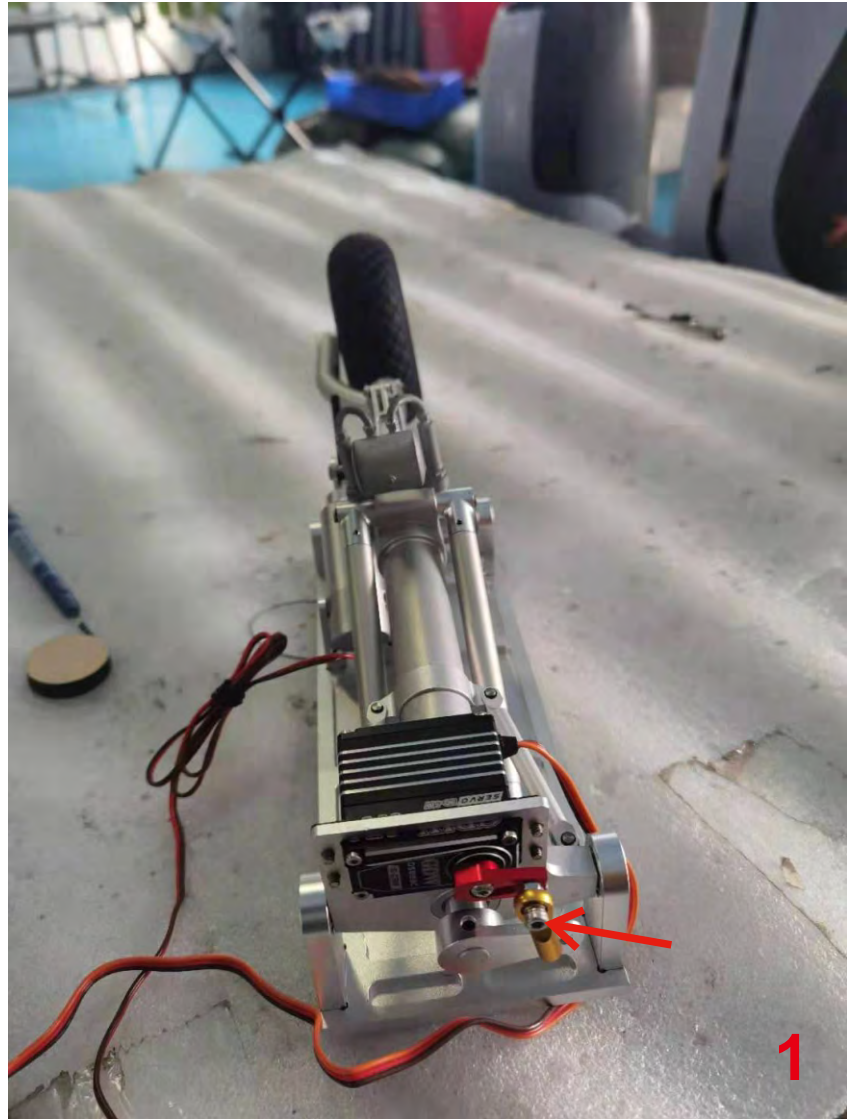
# 转向舵机安装 Steering servo installation

①转向舵机规格：标准舵机。  
使用螺丝规格：M3x10mm连接  
球头推杆。

②如图2绿色箭头所示，使用螺  
丝规格：M3x8mm螺丝固定舵机。

① Steering steering gear  
specifications: standard steering  
gear. Use screw specification:  
M3x10mm to connect the ball  
head putter.

② As shown by the green  
arrow in Figure 2, use the  
screw specification: M3x8mm  
screw to fix the servo

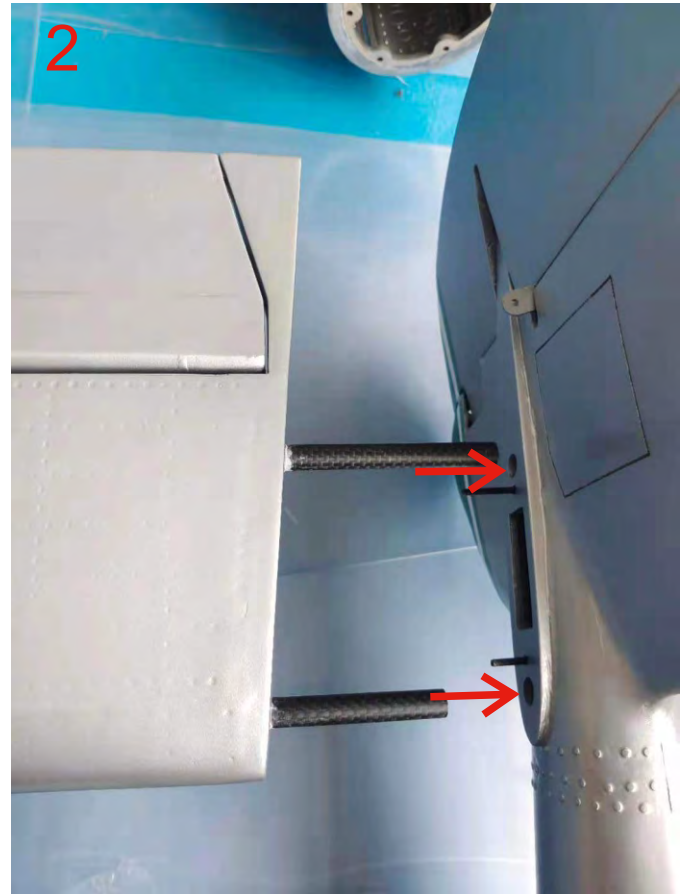


## 后段机身与平尾对接

The rear section of the fuselage is connected to the horizontal stable surface

如图2所示，把平尾伸出来的碳纤维管对着后段机身上的孔插入。

As shown in Figure 2, insert the carbon fiber tube extending from the horizontal stabilizer into the hole on the rear section of the fuselage.



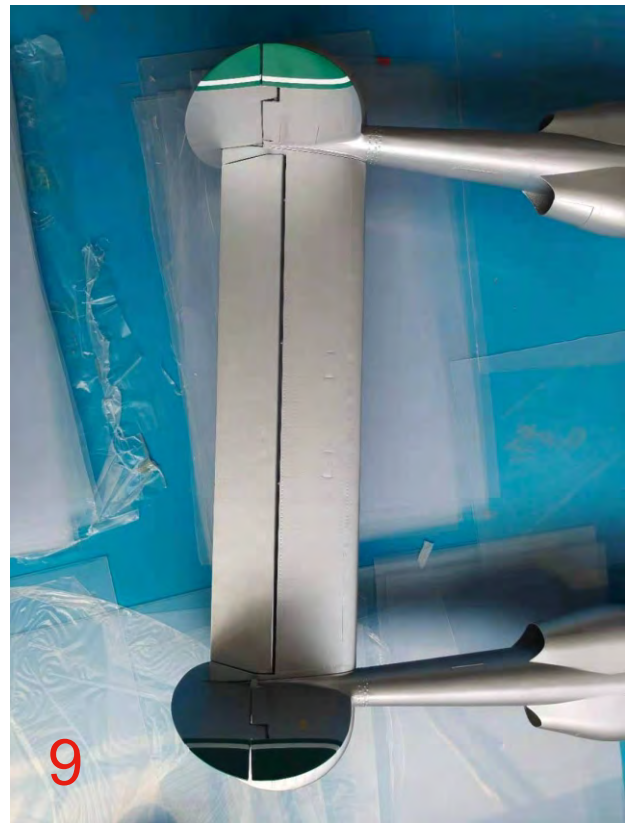
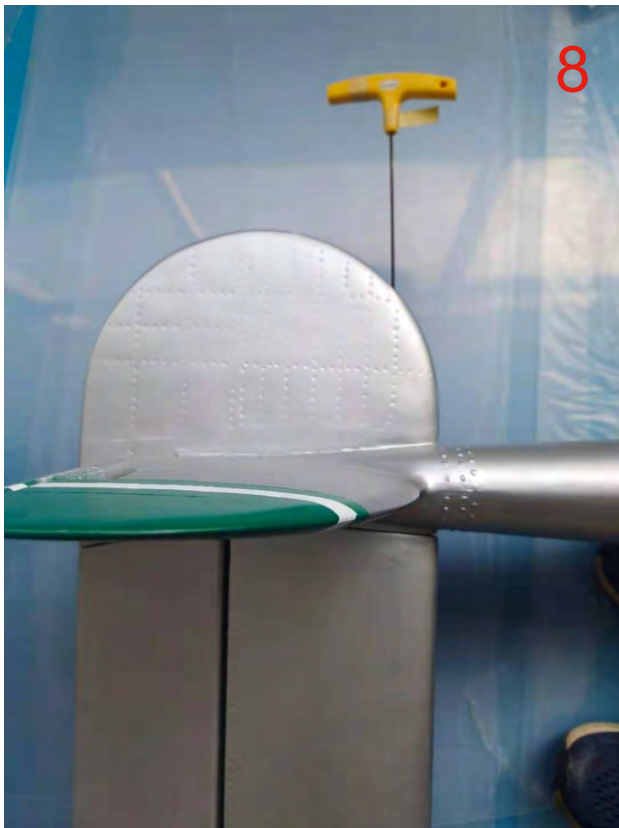
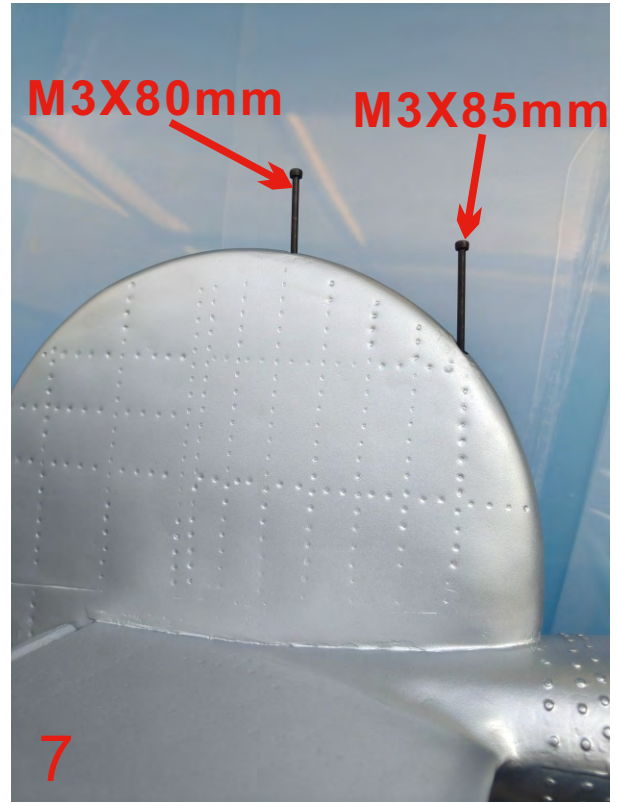
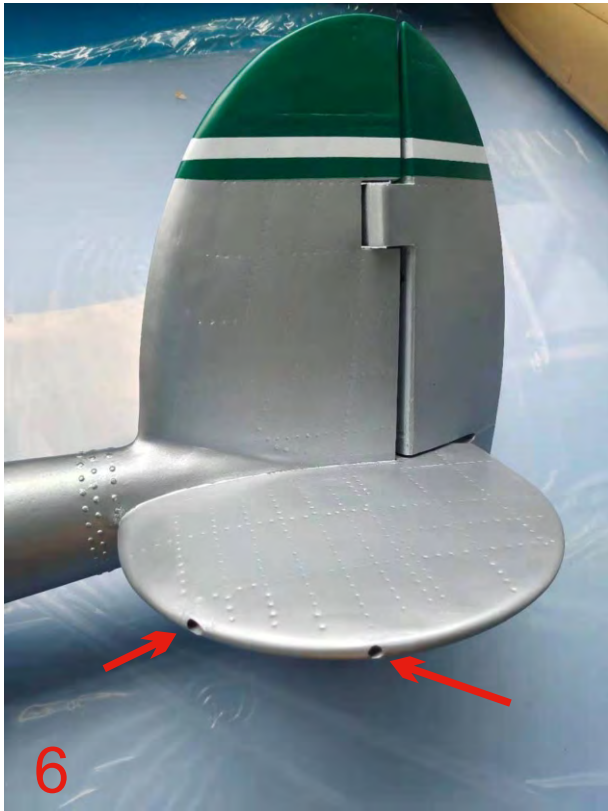
5



M3X85mm内六角螺丝 ( Hexagon socket bolt ) X2



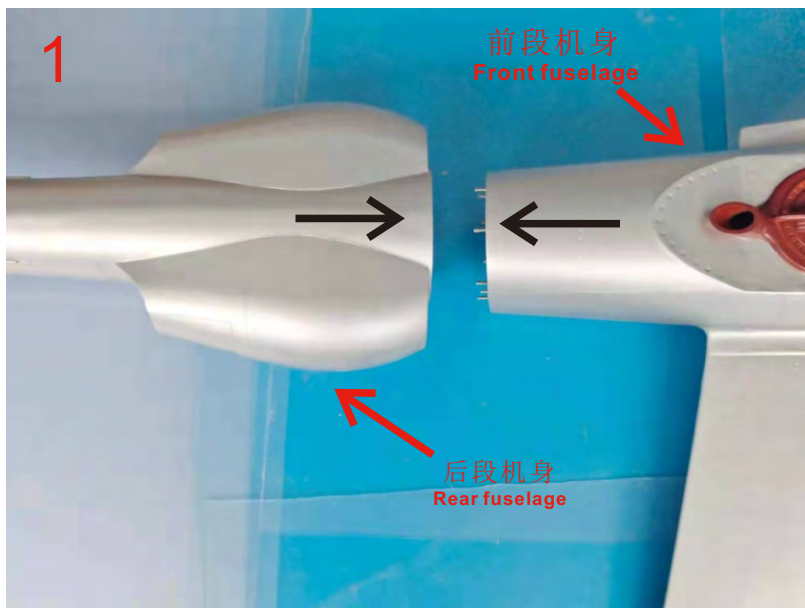
M3X80mm内六角螺丝 ( Hexagon socket bolt ) X2



后段机身的另一侧螺丝也是同样的操作流程  
 The screw on the other side of the rear fuselage  
 is the same operation process

# 前、后段机身的对接

## Docking of front and rear fuselage



①图2，放入螺丝。  
②图3，打开主起落架盖板，对接前后机身，使用3.0六角螺丝刀在里面将螺丝锁紧。

①Figure 2. Insert the screws.  
②Figure 3. Open the main landing gear cover, dock the front and rear fuselages, and use a 3.0 hex screwdriver to lock the screws inside.

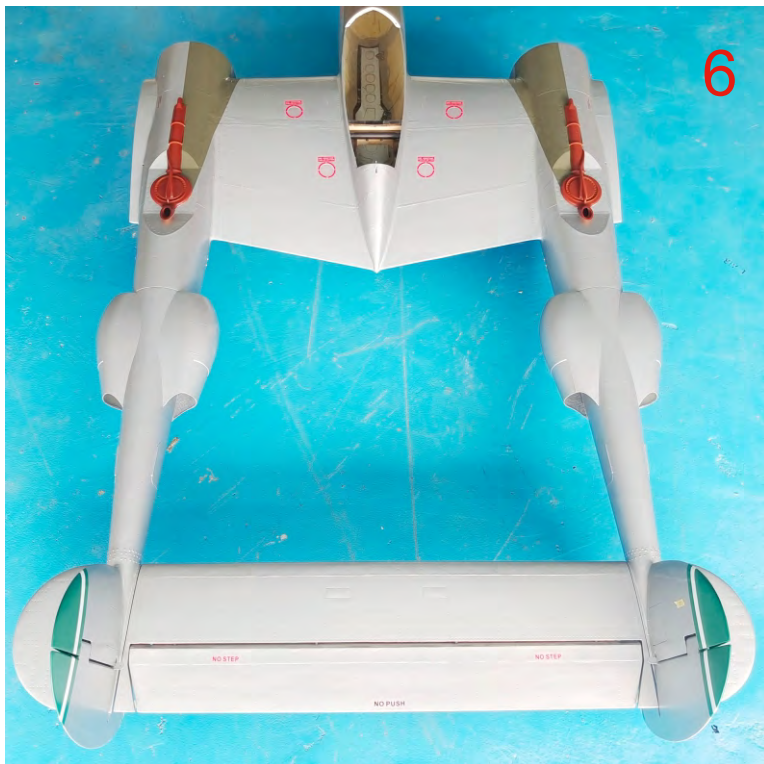
连接用的螺丝规格：  
M4x18mm内六角。  
单侧需要8颗，共16颗。

Screw specification for connection: M4x18mm hexagon socket.  
8 are needed on one side, 16 in total.



同样的安装流程对接另一侧的  
前、后机身

The same installation process is  
connected to the front and rear  
fuselage on the other side





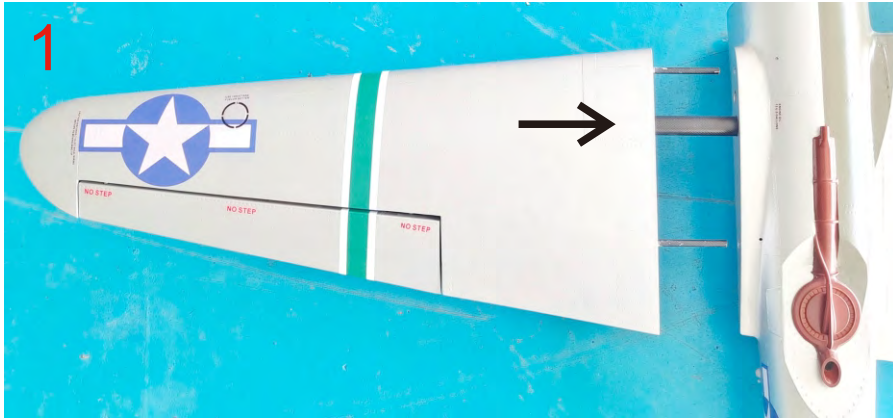
# 主机翼与机身对接

## Main wing and fuselage docking

- ①主机翼使用的是  $\phi 30 \times 750 \text{mm}$  碳纤维管将主机翼对接到机身上。
- ②机身上表里面有两个孔（图4蓝色箭头），使用2.5六角螺丝刀插入，有适当的力拧紧。

①The main wing uses  $\phi 30 \times 750 \text{mm}$  carbon fiber tubes to connect the main wing to the fuselage.

②There are two holes (blue arrow in Figure 4) on the upper surface of the fuselage. Use a 2.5 hex screwdriver to insert and tighten with proper force.

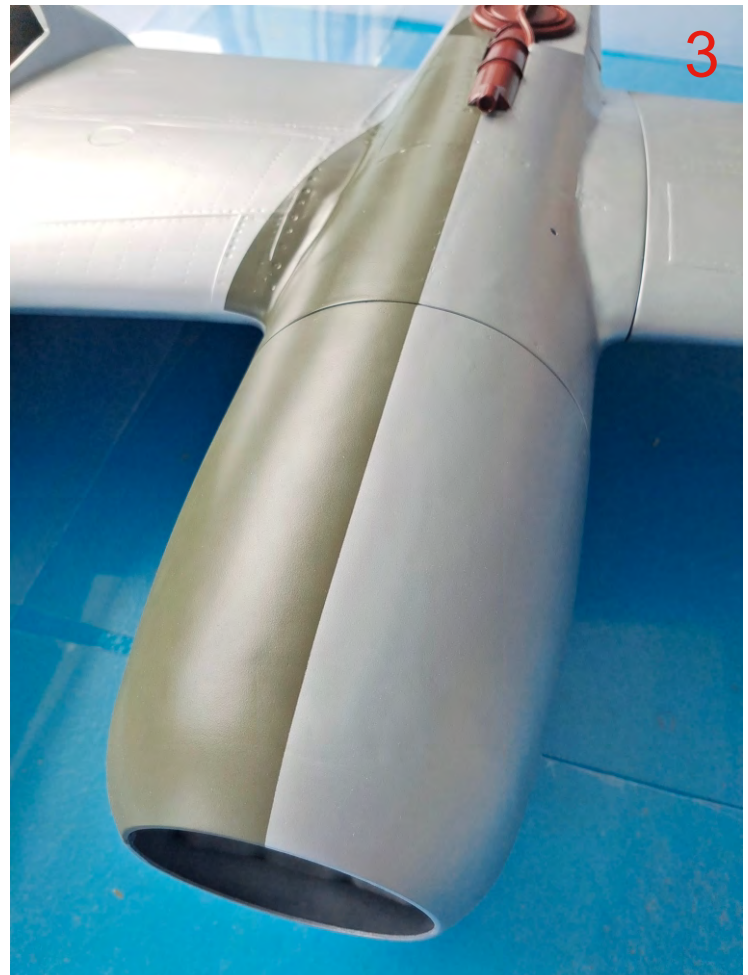
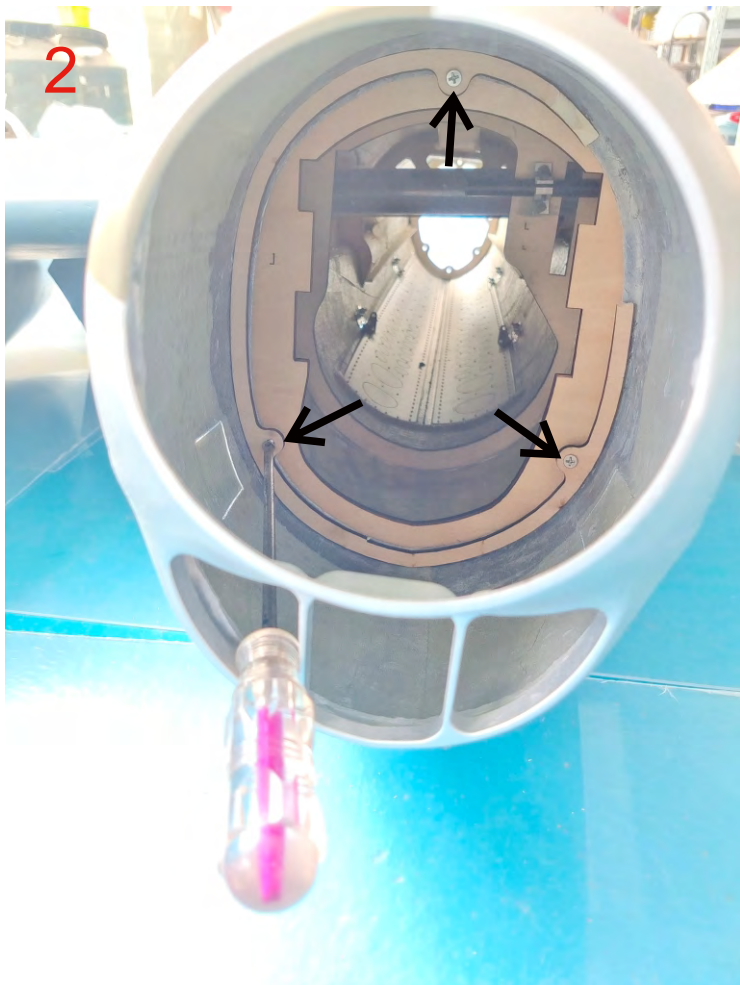


## 引擎罩与机身对接 Docking the hood and the fuselage



如图2所示，使用螺丝规格：  
M4x25mm十字自攻螺丝，用  
适当的力拧紧即可。

As shown in Figure 2, use the  
screw specification: M4x25mm  
Phillips self-tapping screw,  
tighten it with appropriate force.



## 外置副油箱与机身连接

The external auxiliary fuel tank is connected to the fuselage

①如图3红圈所示，外置副油箱的安装面对应好机身下表面的安装面。

②使用螺丝规格：M3x25内六角自攻螺丝将下挂件固定在机身上

① As shown in the red circle in Figure 3, the mounting surface of the external auxiliary fuel tank corresponds to the mounting surface of the lower surface of the fuselage.

② Screw specification: M3x25 internal hexagonal self-tapping screws to fix the external auxiliary fuel tank on the fuselage



# 重心 C. G.

飞机重心在机翼翼根安装面前缘向后136mm。

For aircraft C.G., the leading edge of the wing root installation plane is 136mm backward.

