

0.8M Tiger Moth

Balsawood Scale Airplane



Instruction Manual

SCG39

飞行前的建议 PRE-FLIGHT CHECKS

- 安装舵机前，请先将舵机通电让舵机中心点回中，以便能更好的调试舵面。
- Check/adjust servo centering, in order to adjust the control surface better.
- 初次启动电机，您需要确认电机旋转的方向以适配您的机型。
- Double-check the spinning direction of motor at first usage, and sure it's suitable for your model.
- 请将重心 (CG) 调整至说明书所述位置并尽量靠近。如果有需要，您可以增加机头或者机尾的重量，以确保机体有更好的飞行姿态。
- Set the center of gravity (CG) at the position that manual already marked out. If necessary, add weight to the nose or tail to ensure the best flight performance.
- 检查机身内部，确保所有设备正常连接；检查机身表面，包括但是不限于蒙皮，固定螺丝，舱盖，座舱罩等位置。
- Double-check the inside of the fuselage, make sure all the equipments are correctly connected; Check the heat-shrink covering material's surface, Make certain all screws, bolts, cabin and canopy remain secure.
- 在飞行前，请检查您电池情况，若有低电压，电池损坏等情况，请您停止操作并马上更换电池。
- Take great care when connecting/disconnecting the battery, pls replace the battery immediately once found low voltage or damage to battery.
- 机身内部设备连接的方式，会和您的收发设备有关，在一些功能更多的收发设备上，您可以通过设置简化机身内部设备的连接。详细请查看您的收发设备以确认是否满足您需要的功能。
- The way the internal devices of the fuselage are connected will be related to your transmitter-receiver device. For those transmitter-receiver devices with more functions, you can simplify the connection of the internal devices of the fuselage. Check your device for details to see if it meets the features you need.
- 动力设备和收发设备第一次配对时，可能需要设置油门最大行程，请您自行设置。
- When the power system and transmitter-receiver device are paired for the first time, you may need to set the maximum stroke of the throttle. Please set it yourself.

注意事项 SAFETY PRECAUTIONS

- 这个产品不是玩具，而是一个复杂的具有难度的飞行器。您和您身边人的安全取决于您如何操作它，您需要了解相关知识，并谨慎操作。禁止没有成人陪伴的儿童独自操作该设备。不适合14岁以下人群使用。再次强调，这不是一个玩具。
- This product should not be considered a toy, but rather a complicated and sophisticated flying model. Your safety depends on how you use and fly it, if not correctly operated, could cause injury to you or your family members. Children must be accompanied by an adult at all times if operating this product. Not suitable for children under the age of 14. THIS IS NOT A TOY.
- 不要在机场，军事基地，居民区或其他任何受限制的地方飞行。
- Do not fly around some restricted location like airports, military bases, residential areas, etc.
- 您需要对发射机进行距离检查，以确保没有收到任何干扰。
- You will need to range check the transmitter to be sure you are not experiencing any interference.
- 始终保持先打开发射机后打开接收机，先关闭接收机后关闭发射机的步骤。
- Always turn on the receiver last after turning on the transmitter and shut off the receiver first before turning off the transmitter.
- 如果您是初学者，建议您在有经验玩家的协助下调试和飞行。
- If you are only a beginner to the radio control model flying, do not attempt to fly your model without any assistance or advice from advanced expert fliers.
- 请将相关物品放置在孩子们够不到的地方
- Keep relevant items out of reach of children.
- 这个设备的设计已经超过我们正常使用所需要刚性要求，但若您需要以超出我们推荐的动力飞行时，请合理控制动作幅度并适当增加机体强度。
- This product has been flight tested to meet or exceed our rigid performance and reliability standards in normal use, if you plan to perform any high-stress flying, you are solely responsible for taking any and all necessary steps to control movement range and reinforce the body strength.
- 您的设备中可能包括一些玻纤和碳纤维雕刻的部件，这些纤维部件所带的粉尘可能会引起眼睛，皮肤的不适，请您在需要的时候带上护目镜或者防尘服。
- This product may include some fiberglass and carbon-fiber reinforced plastic parts, which may cause eye and skin discomfort, pls wear the goggles or dust-proof clothes when needed.
- 因航空运输安全管制，您收到的产品可能没有清单中出现过的胶水，请您理解无法发送胶水给您原因。您可以在当地文具店很方便的购买到您所需要的胶水。
- Due to air traffic safety control, the products you receive may not have the glue that appears in the list. Please understand and purchase the glue you need at your local stationery store.



飞行参数 Specification

翼展:800mm
机长:690mm
起飞重量: 420g

Wingspan:800mm
Fuselage Length:690mm
Fly weight:420g

推荐配置 Suggested Equipment

马达: MM1908 2050KV
桨叶: 7inch
电调: 20A
舵机: 2.5-3.7g 4pcs
电池: 2S 1300-1500mAh

Motor: MM1908 2050KV
Prop: 7inch
ESC: 20A
Servo: 2.5-3.7g 4pcs
Batt: 2S 1300-1500mAh

Y线 1pcs
延长线 30cm 4pcs

Y wire 1pcs
30cm extended wire 4pcs

工具 Tools Needed



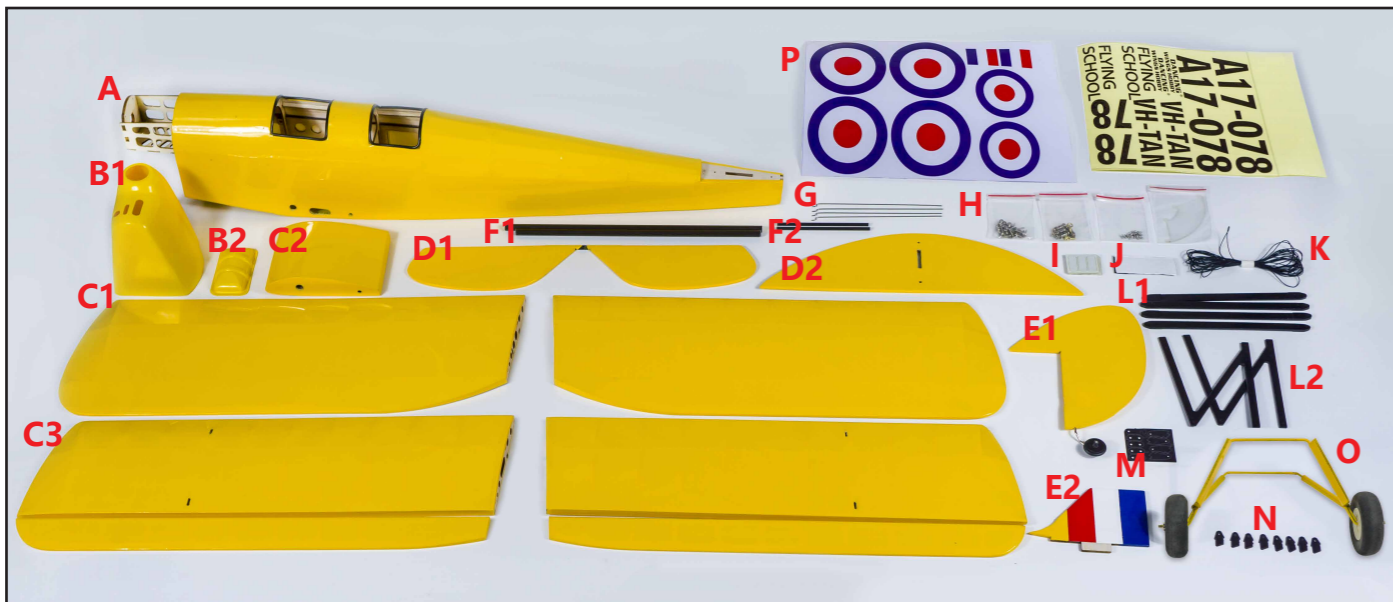
DANCING WINGS HOBBY
<http://www.dwhobby.com/>



MADE IN CHINA

配件图仅作参考，您收到的实物可能因为修改/优化的原因导致与图片略有不同。
Photos shown here just for reference, the product you received may be slightly differ from the photos due to continuous improvement on products.

KIT

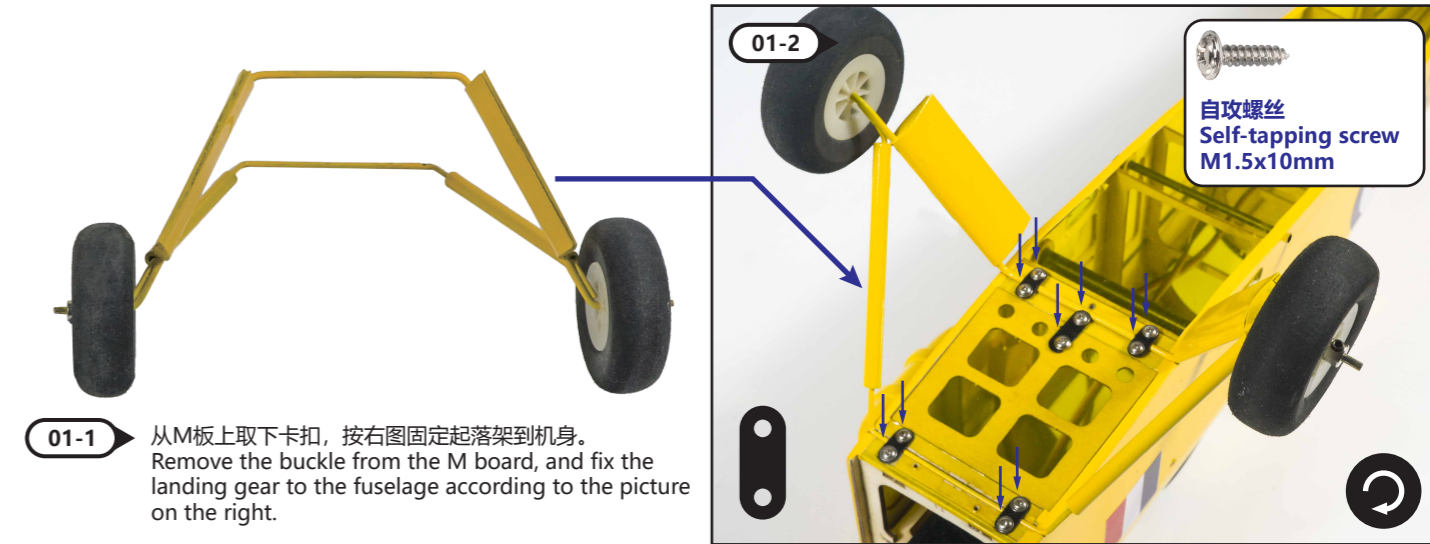


- A:机身 fuselage B1:机头罩 cowling B2:货仓罩 Warehouse cover C1-3:机翼 Wing
- D1-2:水平尾翼 Horizontal tail E1-2:垂直尾翼 Vertical tail F1-2:连接杆 Connecting rod
- G:钢丝连杆 Steel wire connecting rod H:螺丝及配件 Screws and accessories I:纸合页 Paper hinges
- J:魔术贴 Velcro K:拉线 Pull line L1-2:机翼支架 Wing brackets M:玻纤板 Fiberglass panels
- N:支架连接件 Bracket connectors O:起落架 Landing Gear P:贴纸 Stickers

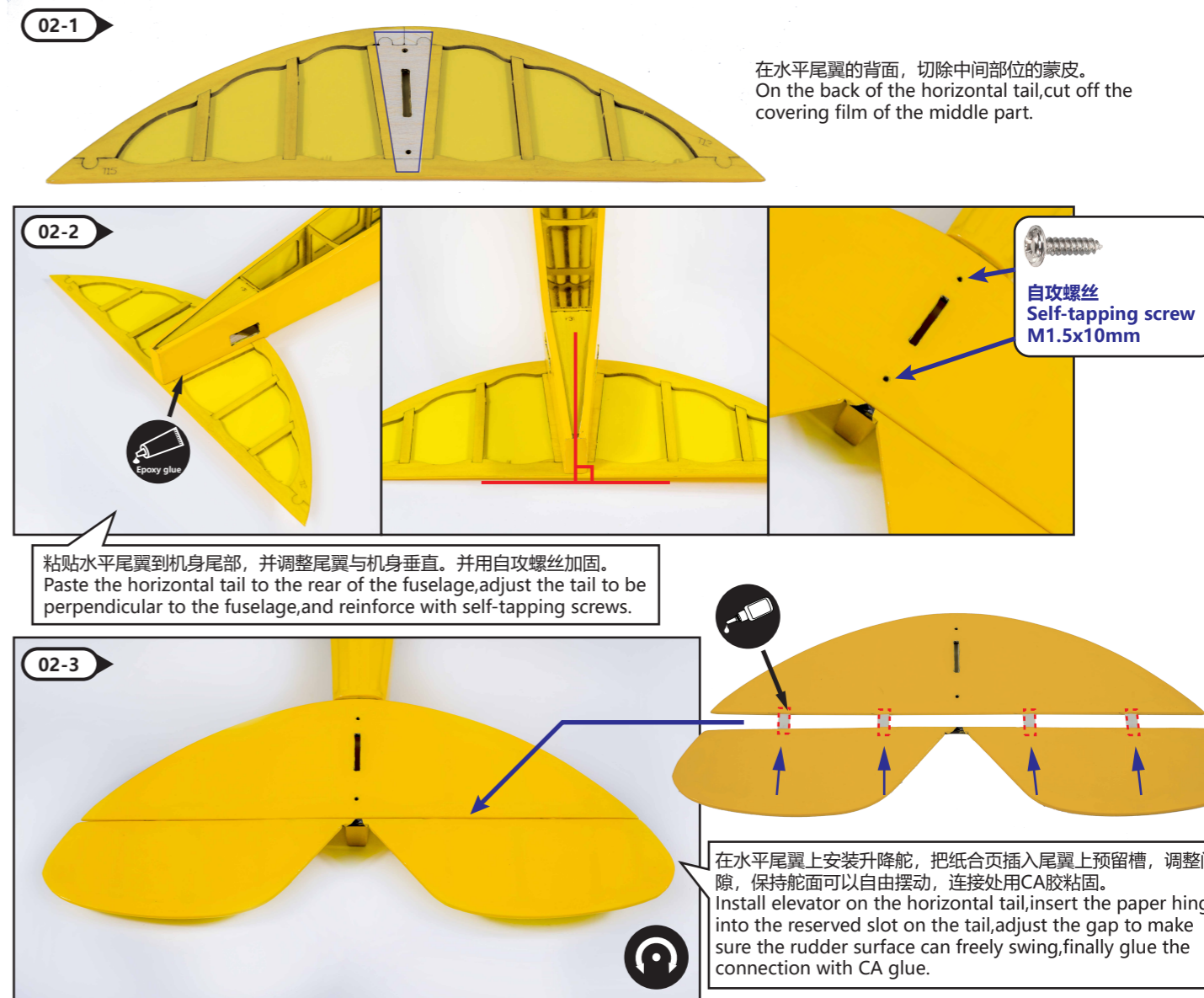
★ 装配提示符号 Assembly symbol guide

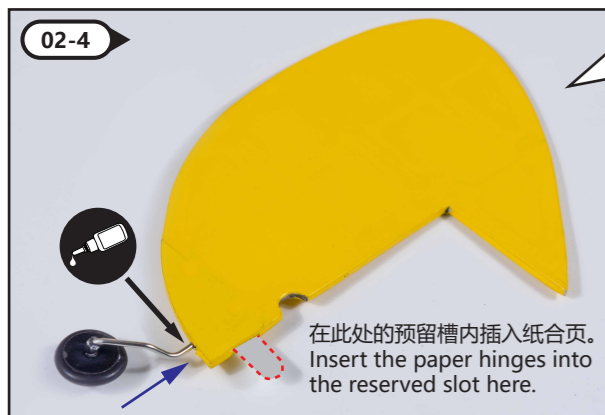
- 确保自由转动 Ensure free rotation
- 使用适量快干胶粘固 Use medium CA
- 使用少量快干胶粘固 Use thin CA
- 用铅笔做记号 Use a pencil
- 用力推入 Push tightly
- 用模型刀切割 Use hobby knife with
- 拧紧安装 Fully Tighten
- 加润滑油 Apply Oil
- 重复拼装 Repeat multiple times
- 涂抹螺丝胶 Apply threadlock
- 左右对称安装 Assemble right and left
- 使用环氧胶粘固 Use epoxy adhesive

01 起落架安装 Assemble the Landing Gear

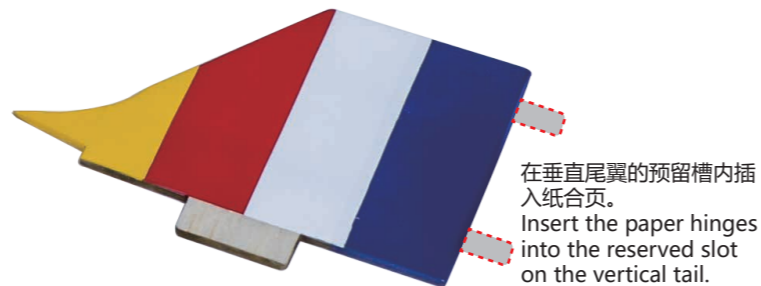


02 尾翼及尾轮安装 Assemble the Tail Wing and Tail Wheel

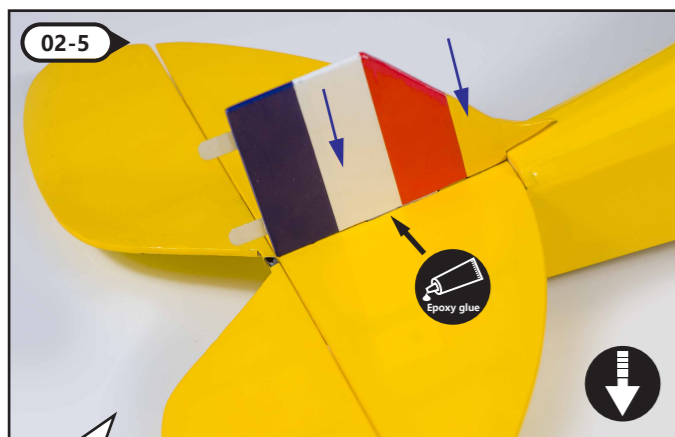




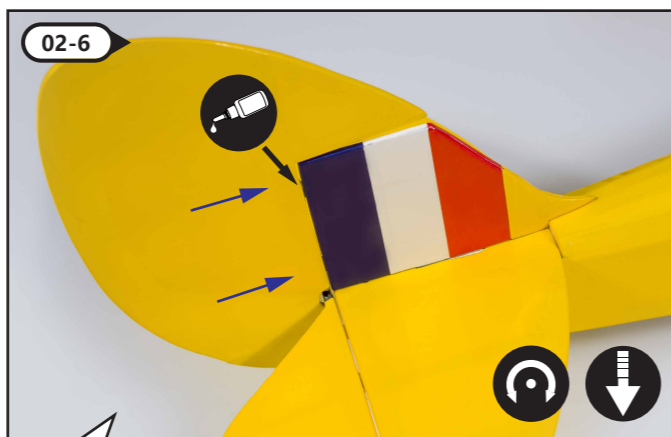
在转向舵的底部插入尾轮,并调整角度用CA胶粘固。
Insert the tail wheel at the bottom of the steering rudder, adjust the angle, and glue firmly with CA glue.



在垂直尾翼的预留槽内插入纸合页。
Insert the paper hinges into the reserved slot on the vertical tail.

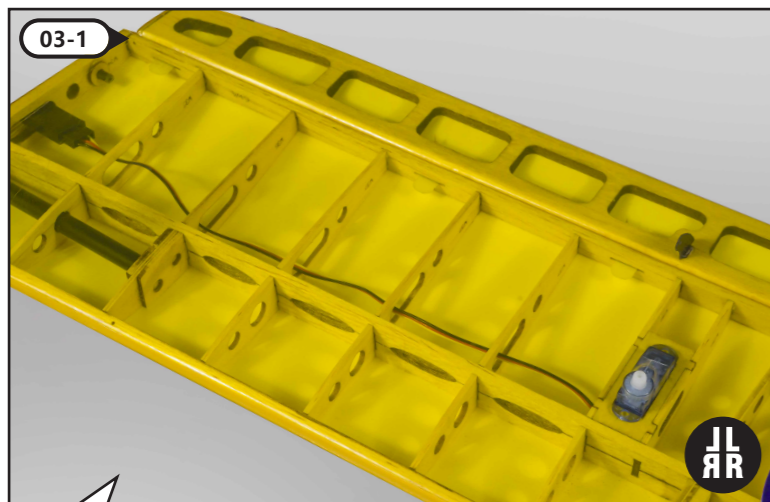


把垂直尾翼插入机身,用环氧树脂粘固。
Insert the vertical tail into the fuselage, and glue firmly with epoxy glue.

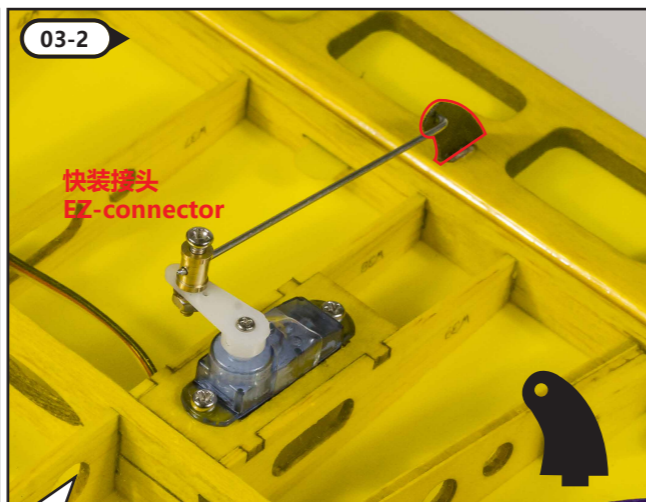


在垂直尾翼上安装转向舵,通过纸合页连接,调整间隙保持舵面可以自由摆动,连接处用CA胶粘固。
Install the steering rudder on the vertical tail, connect it with paper hinges, adjust the gap to keep the rudder surface to swing freely, and fix the connection with CA glue.

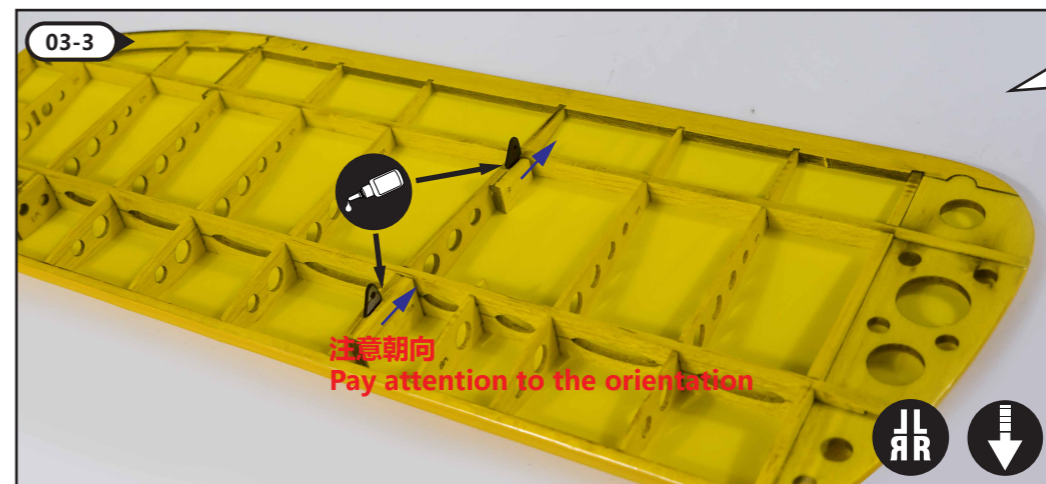
03 机翼安装 Install the Wing



在下机翼的舵机孔处安装舵机,把舵机线从机翼末端导出。此处可能需要舵机延长线。左右机翼相同安装。
Install the servo into the servo hole of the lower wing, lead the servo wire from the end of the wing. A servo extension cable may be required here. Same installation for left and right wings.



1.从M板上取下舵角,安装到副翼的预留槽内,用CA胶粘固。
Remove the servo horn from the M plate, install it in the reserved groove of the aileron, and fix it with CA glue.
2.在舵机上安装舵臂,舵臂上安装快装接头。
Install the servo arm on the servo, and install the EZ-connector on the servo arm.
3.舵机与副翼通过钢丝连杆连接,钢丝连杆Z型一端穿入舵角,另一端插入快装接头,然后锁紧快装接头螺丝固定钢丝。
Connect the servo and the aileron with a steel wire connecting rod, one end of the Z-shaped steel wire rod is inserted into the servo horn, and the other end is inserted into the EZ-connector, and then tighten the EZ-connector screw to fix the wire.



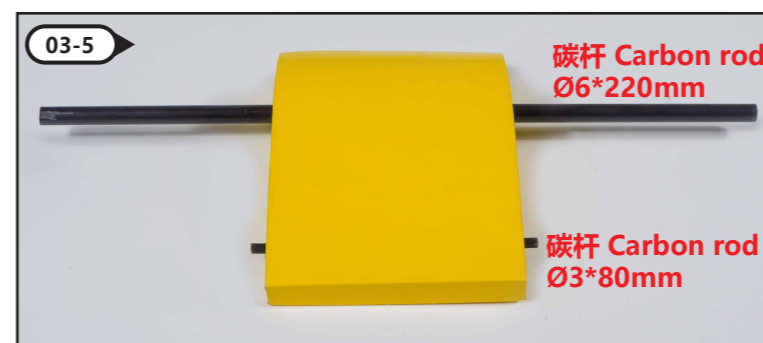
在上机翼底面预留槽内插入连接件,注意朝向,装好后用CA胶粘固。
Insert the connector into the reserved groove on the bottom surface of the upper wing, pay attention to the orientation, fix it with CA glue after installation.

注意朝向
Pay attention to the orientation



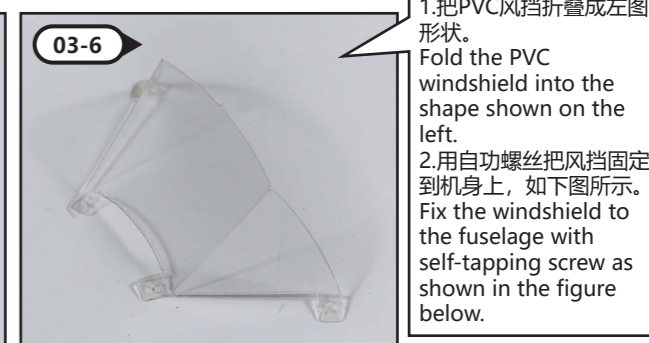
在下机翼顶面预留槽内插入连接件,注意朝向,装好后用CA胶粘固。
Insert the connector into the reserved groove on the bottom surface of the lower wing, pay attention to the orientation, fix it with CA glue after installation.

注意朝向
Pay attention to the orientation

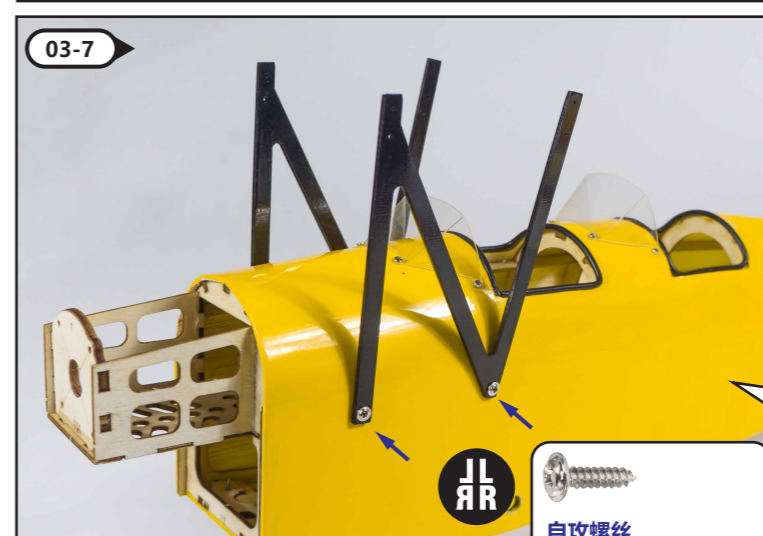


碳杆 Carbon rod
Ø6*220mm

碳杆 Carbon rod
Ø3*80mm



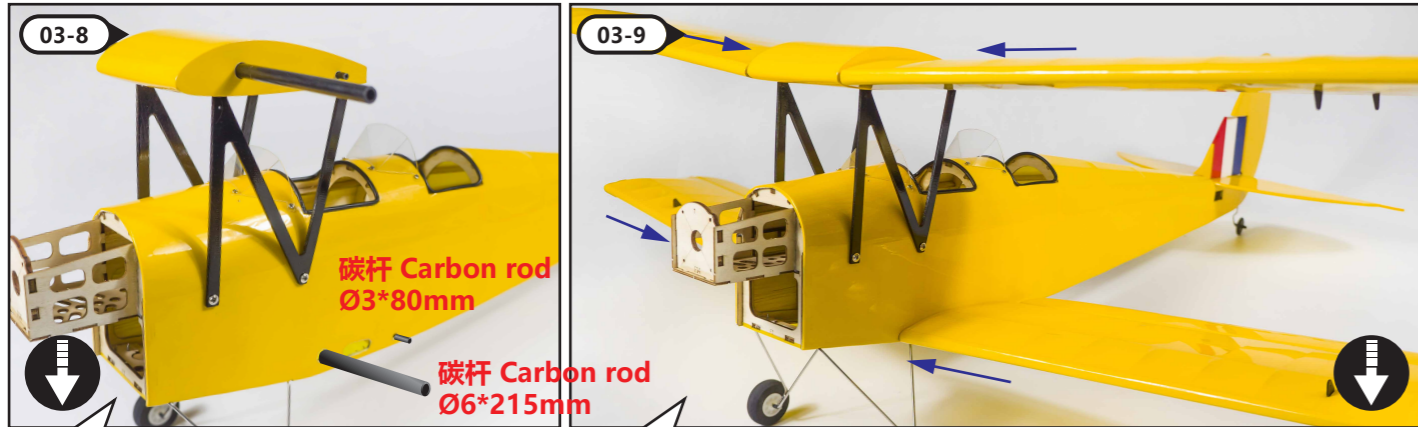
1.把PVC风挡折叠成左图形状。
Fold the PVC windshield into the shape shown on the left.
2.用自攻螺丝把风挡固定到机身上,如下图所示。
Fix the windshield to the fuselage with self-tapping screw as shown in the figure below.



自攻螺丝
Self-tapping screw
M1.5x10mm

把支架安装到机身,用自攻螺丝固定。
Install the bracket to the fuselage and fix with self-tapping screw.

自攻螺丝
Self-tapping screw
M1.5x10mm



03-8

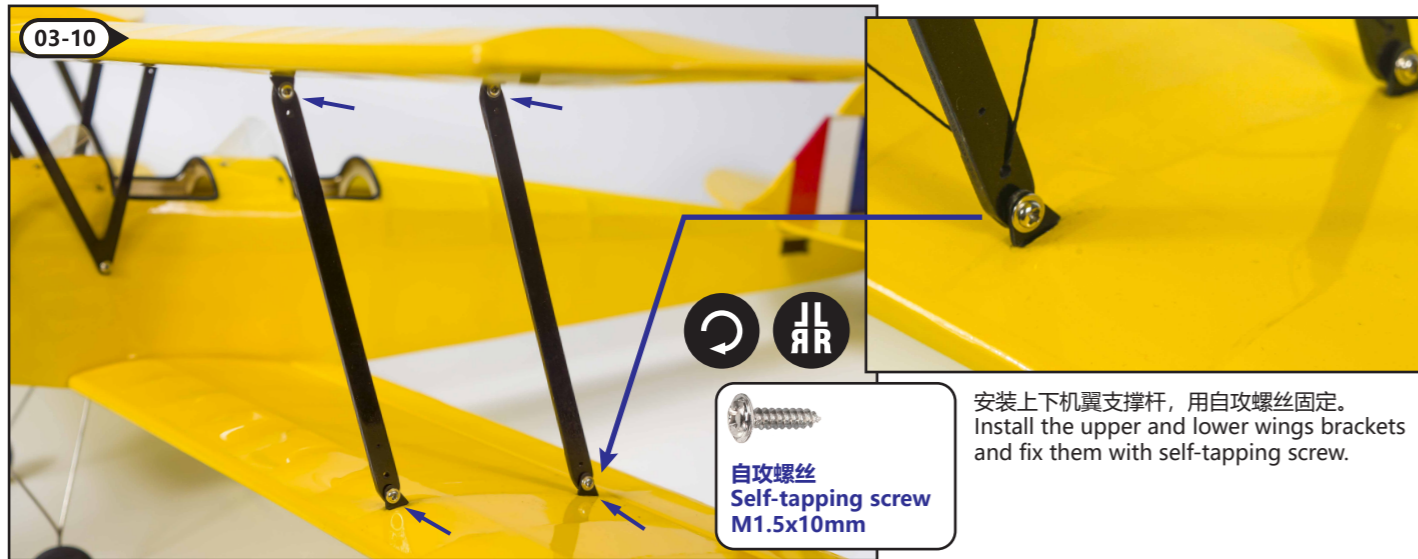
碳杆 Carbon rod
Ø3*80mm

碳杆 Carbon rod
Ø6*215mm

03-9

上下机翼插入连接杆。
Insert the upper and lower wings into the connecting rod.

把03-5组装好的部件插入支架,此步骤暂不粘合。
Insert the assembled parts of 03-5 into the bracket, this step will not be glued temporarily.



03-10



自攻螺丝
Self-tapping screw
M1.5x10mm

安装上下机翼支撑杆,用自攻螺丝固定。
Install the upper and lower wings brackets and fix them with self-tapping screw.



03-11

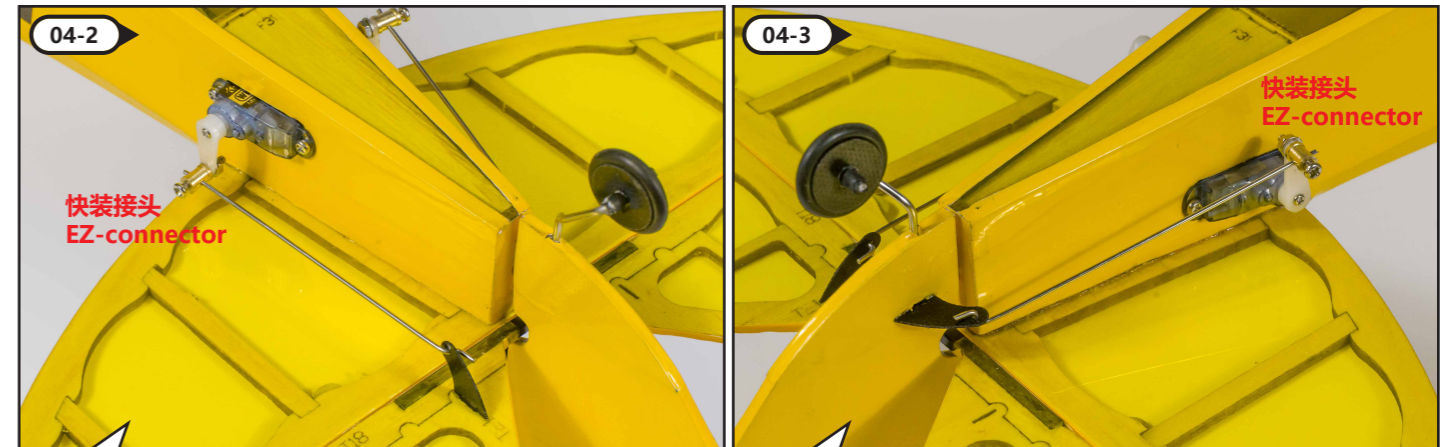
调整上机翼角度,最后用CA胶粘固连接处。
Adjust the angle of upper and lower wing, finally fix the connection with CA glue.

04 方向舵舵机及连杆安装 Install the rudder steering gear and connecting rod



04-1

从M板上取下舵角,如左图插到舵面的预留槽内,用CA胶粘固。
Remove the servo horn from the M plate, insert it into the reserved groove of the rudder surface as shown on the left, and fix it with CA glue.



04-2

快装接头
EZ-connector

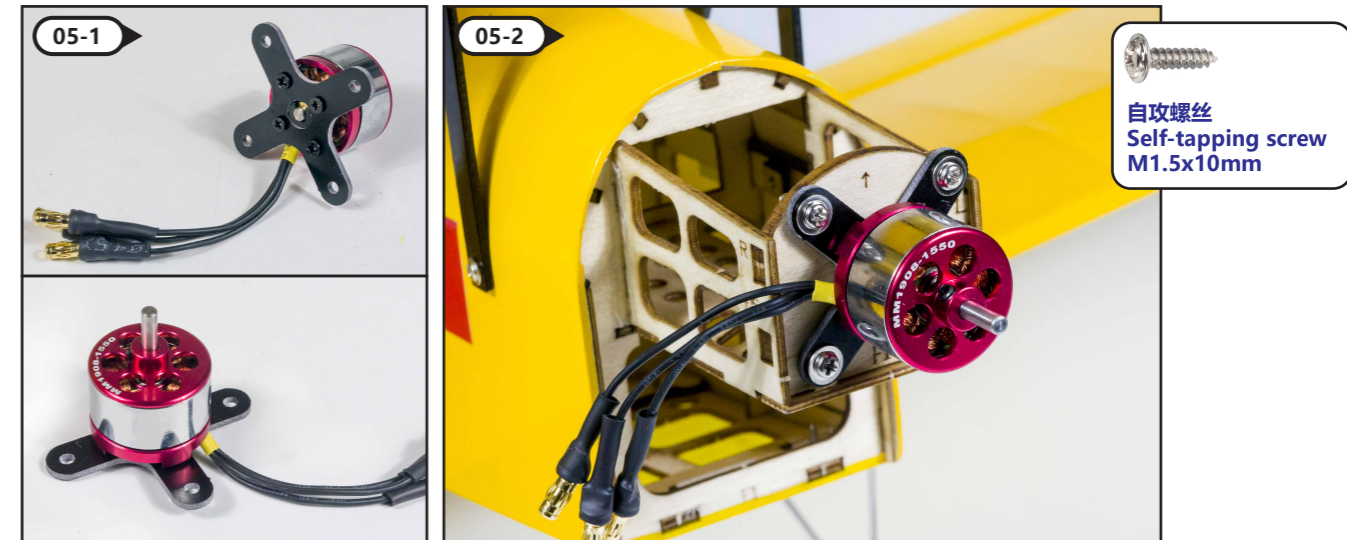
04-3

快装接头
EZ-connector

1.在机身尾部舵机孔位安装舵机。
Install the servo at the servo hole at the rear of the fuselage
2.在舵机上安装舵臂,舵臂上安装快装接头。
Install the servo arm on the servo, and install the EZ-connector on the servo arm
3.舵机与舵面通过钢丝连杆连接,钢丝连杆Z型一端穿入舵角,另一端插入快装接头,然后锁紧快装接头螺丝固定钢丝。
The servo and the rudder surface are connected by a steel wire connecting rod.
One end of the steel wire connecting rod is inserted into the servo horn, the other end is inserted into the EZ-connector, and then tighten the EZ-connector screw to fix the wire.

安装方法同步骤04-2。
The installation method is the same as step 04-2.

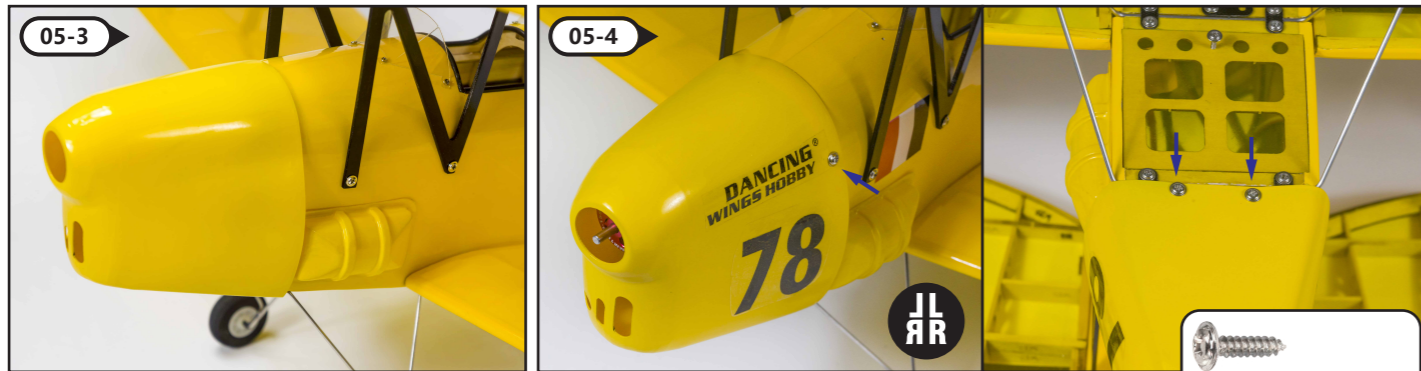
05 安装马达及头罩 Install the Motor and Cowling



05-1

05-2

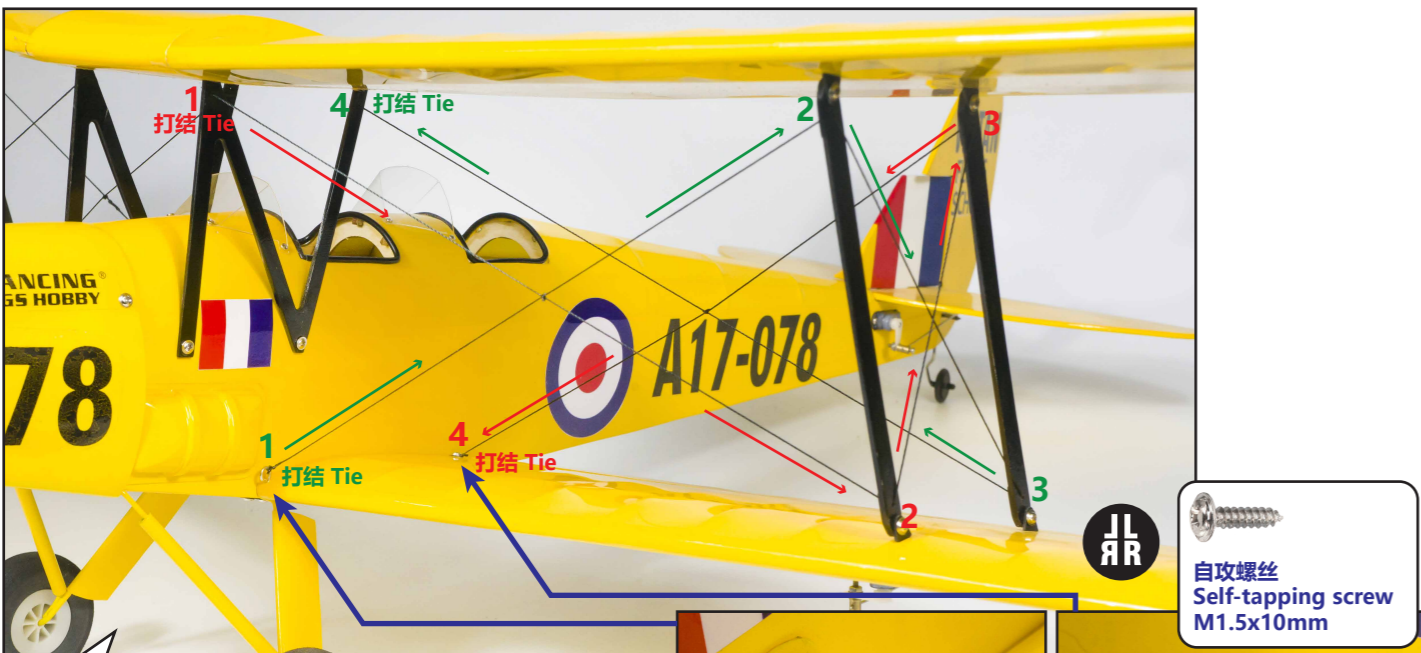
自攻螺丝
Self-tapping screw
M1.5x10mm



按左图安装桨夹及桨叶。
Install the propeller adapter and propeller according to the left picture.

自攻螺丝
Self-tapping screw
M1.5x10mm

06 机翼拉线安装示范 Display the wiring for wing



自攻螺丝
Self-tapping screw
M1.5x10mm

此处拉线为2条，图中用不同的颜色数字区分，按图示数字顺序进行穿线，并打结。（左右机翼相同安装）
Here there are two pull wires, they are distinguished by different colors and numbers in the figure.
Thread the wires and tie them in the order of the numbers shown in the figure. (The left and right wings are installed in the same way)

07 设置和调试 Set and Adjust

重心位置展示 Display the C.G

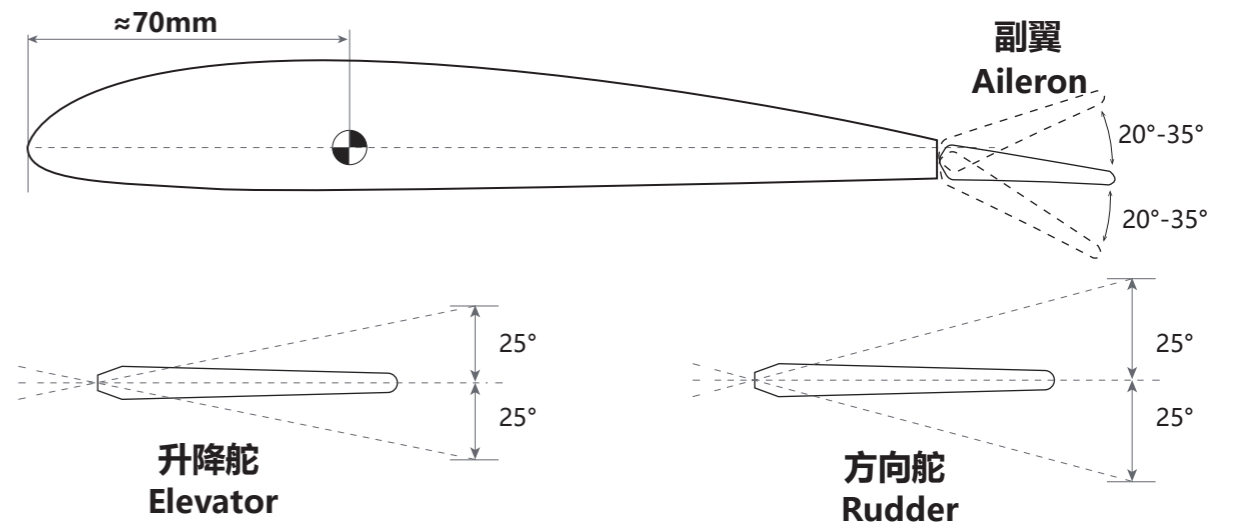


选用电动引擎时，可通过调整电池放置的位置来调整重心。
When using the electric motor, the center of gravity can be adjusted by adjusting the position of the battery.

电子设备，电池仓展示 Display the electronics and battery compartment



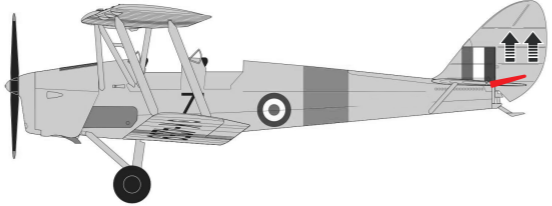
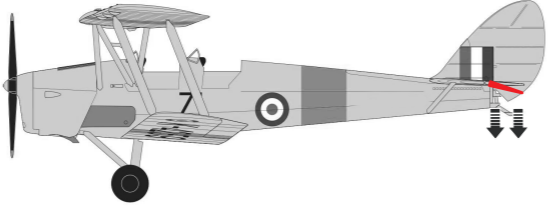




通常情况下，舵面角度的设置如下：
Usually, the control throws set as below:




	常规飞行(Normal Flying)	3D飞行 部分飞机支持(3D Flying only support some models)
副翼 Aileron	± (15°-30°)	±40° 或者更大(or larger)
平尾 Elevator	±15°	±40° 或者更大(or larger)
垂尾 Rudder	±15°	±40° 或者更大(or larger)
常用襟翼 Flap	(起飞 take-off) 15°-20° (降落 Landing) 20°-40°	

部分特殊机型会有V型尾翼，襟翼，前缘机翼或舵面很小等，可以以常规飞行的角度作为参考，在您不确认且没有有经验人员指导的情况下，我们建议您先以小角度试飞以确认您的设置是否正确。
Some special models will have V-tails, flaps, leading edge wings, etc., which can be used as a reference for conventional flight angles. If you do not confirm and there is no experienced person to guide you, we recommend that you first test at a small angle to confirm that your settings are correct.

Control Directions Tests

	Transmitter Command	Aircraft Reaction
Elevator	Lifting rod down	
	Lifting rod up	
Aileron	Steering rod to the right	
	Steering rod to the left	
Rudder	Direction rod to the right	
	Direction rod to the left	

NOTE:



更多电子设备调试细节可参考以下链接查看（可直接扫二维码）
More details about power system adjustment, please refer to below link: (You can scan QR Code directly.)

<http://www.dwhobby.com/art/connection>