

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的原因。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: 1540mm (61")
机长: 1270mm (50")
起飞重量: ≈ 2600g

Wingspan: 1540mm (61")
Fuselage Length: 1270mm (50")
Flying Weight: ≈ 2600g

推荐配置 Suggested Equipment

马达: MC4220 410KV
桨叶: 15inch
电调: 80A
电池: 6S 2600-3700mAh
舵机: 25g*4pcs
通道: 6CH

Motor : MC4220 410KV
Prop : 15inch
ESC : 80A
Battery : 6S 2600-3700mAh
Servo : 25g*4pcs
Radio : 6CH

工具 Tools Needed



KIT

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.

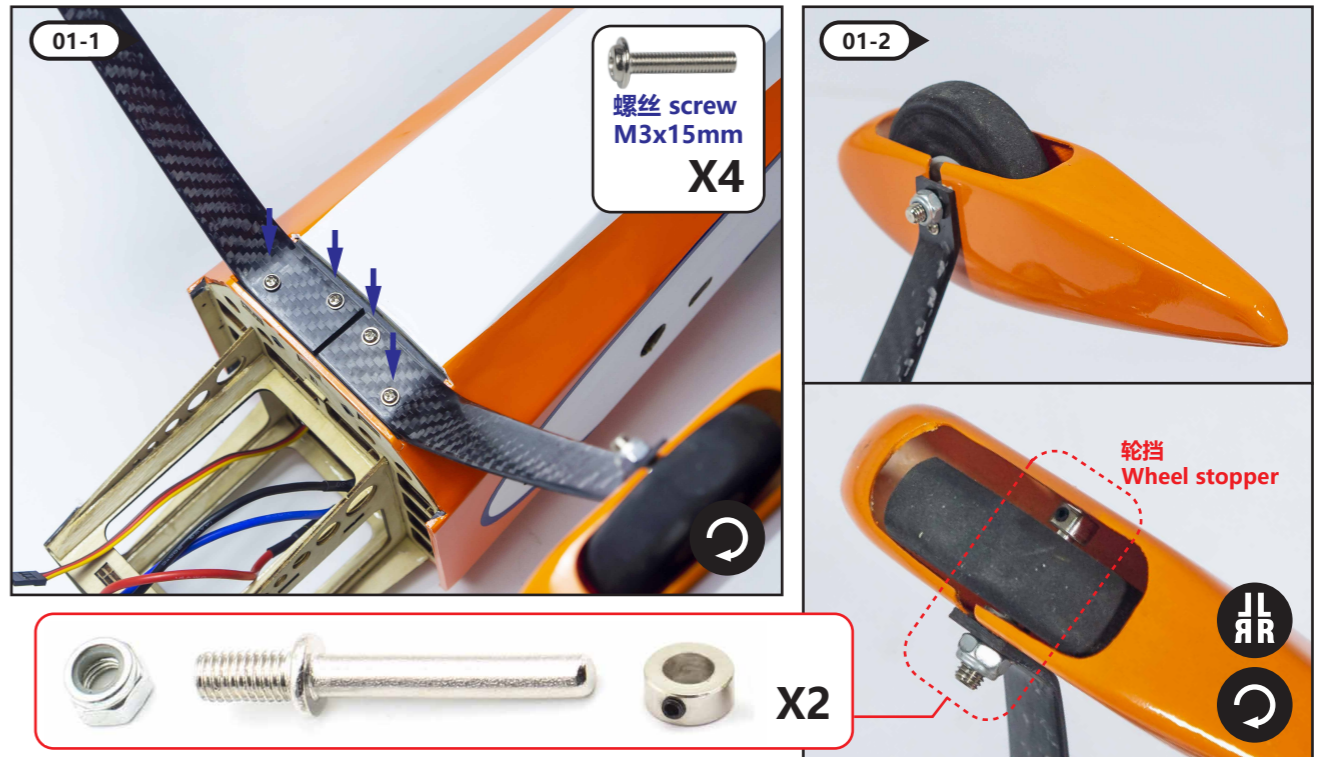


- XCG02-A:机身 Fuselage XCG02-B:机翼 Wing XCG02-C:机头罩 Cowling
- XCG02-D:水平尾翼 Horizontal tail XCG02-E:起落架 Landing Gear+机轮 Wheels
- XCG02-F:垂直尾翼 Vertical tail XCG02-G:机翼碳管 Carbon tube for wing
- XCG02-H:螺丝及配件 Screws and accessories I:尾轮组件 Tail wheel J:连杆 Connecting rod
- 舵角 Rudder horn K:魔术贴胶带 Velcro tape
- 木块, 木杆 Wood block; Wood rod

★ 装配提示符号 Assembly symbol guide

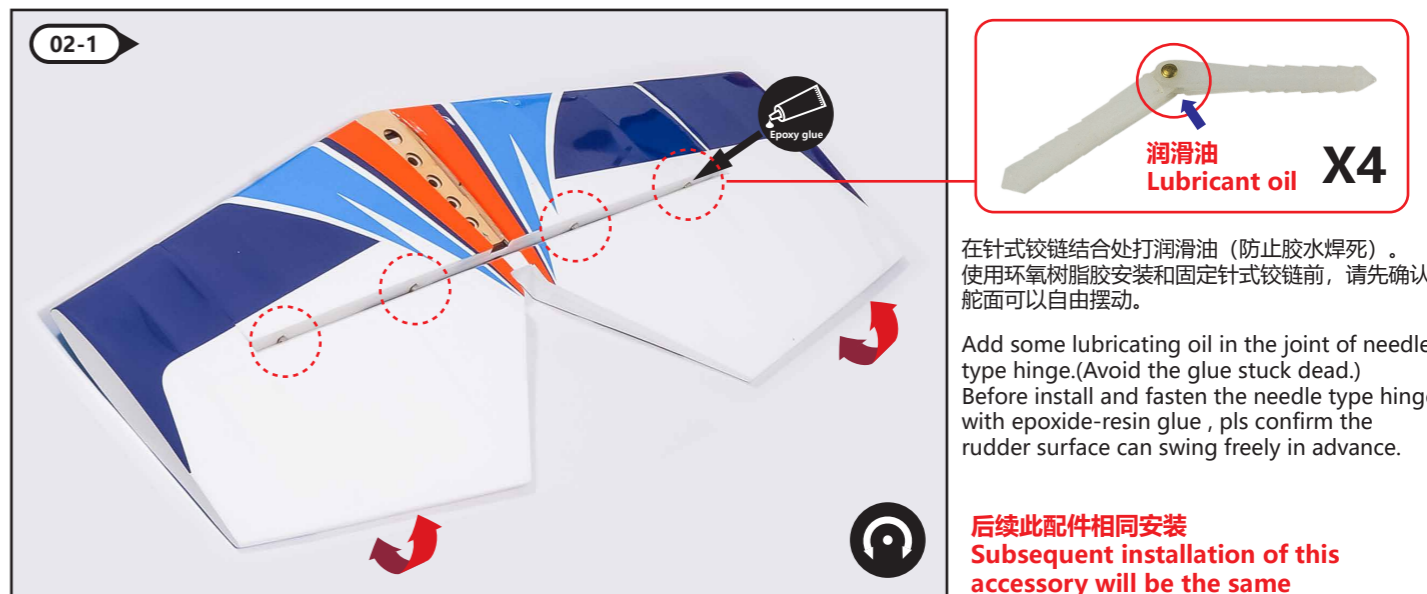
- 确保自由转动 Ensure free rotation
- 使用适量快干胶粘固 Use medium CA
- 使用少量快干胶粘固 Use thin CA
- 用铅笔做记号 Use a pencil
- 用力推入 Push tightly
- 用模型刀切割 Use hobby knife with
- 拧紧安装 Fully Tighten
- 加润滑油 Apply Oil
- 重复拼装 Repeat multiple times
- 涂抹螺丝胶 Apply threadlock
- 左右对称安装 Assemble right and left
- 使用环氧胶粘固 Use epoxy adhesive

01 起落架安装 Assemble the Landing Gear



左右机轮相同安装。
The installation method for the left and right wheels is the same.

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



在针式铰链结合处打润滑油 (防止胶水焊死)。使用环氧树脂胶安装和固定针式铰链前, 请先确认舵面可以自由摆动。

Add some lubricating oil in the joint of needle type hinge. (Avoid the glue stuck dead.) Before install and fasten the needle type hinge with epoxide-resin glue, pls confirm the rudder surface can swing freely in advance.

后续此配件相同安装
Subsequent installation of this accessory will be the same

02-2

如图切开尾翼，并保留切下的木块。
Cut the tail as shown, and retain the cut wood block.

同时把步骤02-2 切下的木块粘回原处。
At the same time, glue the wood block cut in Step 02-2 back to the original place.

02-2

02-3

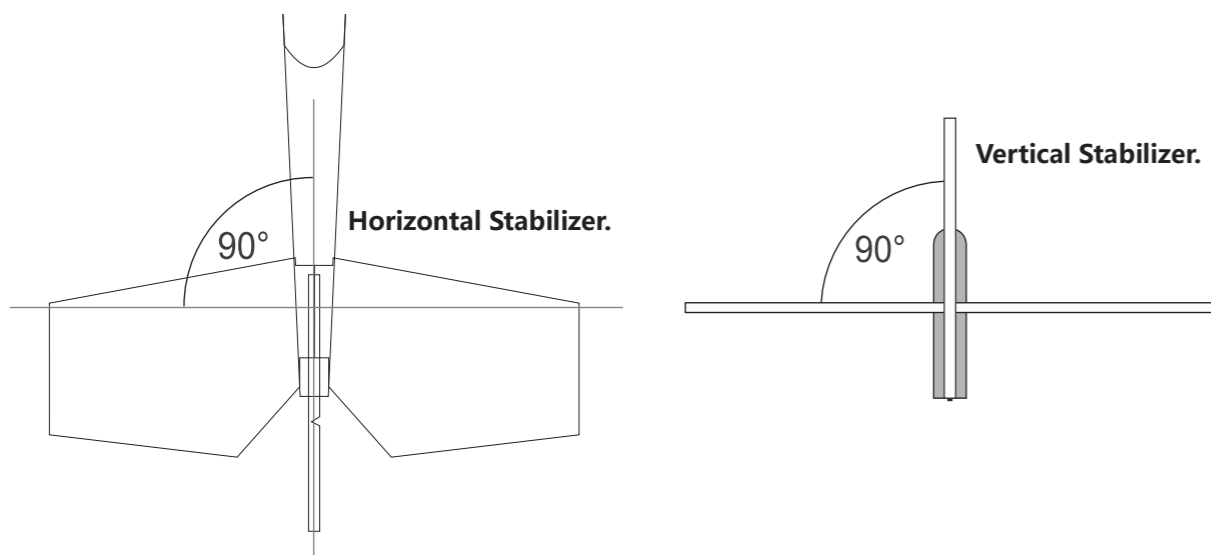
02-4

02-5

润滑油 Lubricant oil X3

保持舵面可以自由转动。
Make sure to keep the rudder surface free to turn.

注意调整水平尾翼与垂直尾翼
Adjust the wheels to be parallel to the rudder surface



02-6

M1.5

02-7

锁紧轮挡
Tighten the wheel stoppers in picture.

轮挡
Wheel stopper

自攻螺丝
Self-tapping screw
M3x15mm

安装后尾轮，对比尾轮的螺丝孔位置在机身尾部钻孔，然后点入少量CA胶，待固化后拧入自攻螺丝安装后尾轮，并使后尾轮与转向舵联动。
Install the rear wheel, drill a hole in the tail of the fuselage according to the screw hole position of the rear wheel, then add a small amount of CA glue, after curing, screw in the self-tapping screw to install the rear wheel, and make the rear wheel link with the steering rudder.

穿入 penetrate

锁紧螺丝
Tighten the screw in picture.

03 机翼安装 Install the Wing

03-1

润滑油 Lubricant oil X6

保持舵面可以自由转动。
Make sure to keep the rudder surface free to turn.

把舵机线导入机翼内，从机翼侧面导出，两个舵机相同操作
Guide the steering servo line into the wing and lead it out from the side of the wing. The two steering servos operate the same.

03-2

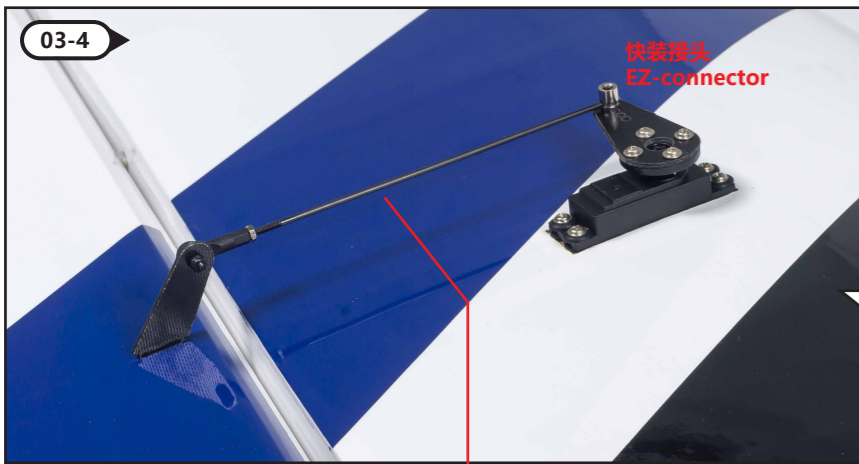
舵机线导出孔
Servo line export hole

03-3

舵角
Rudder horn

自攻螺丝
Self-tapping screw
M2x20mm

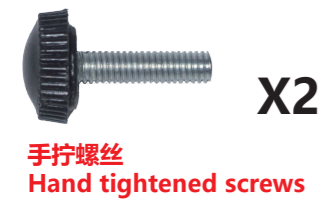
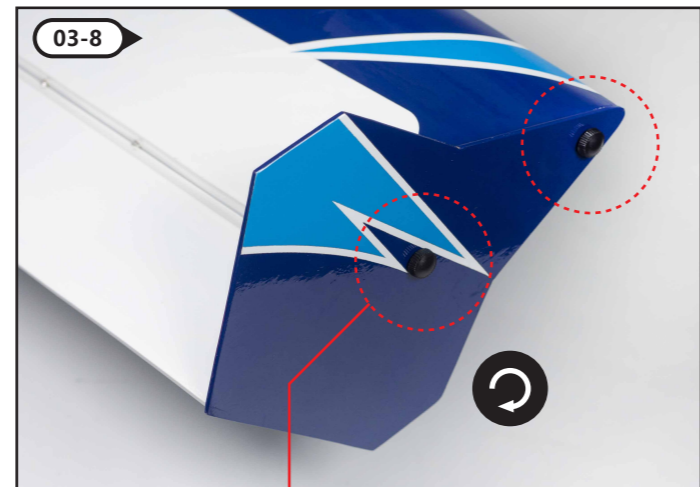
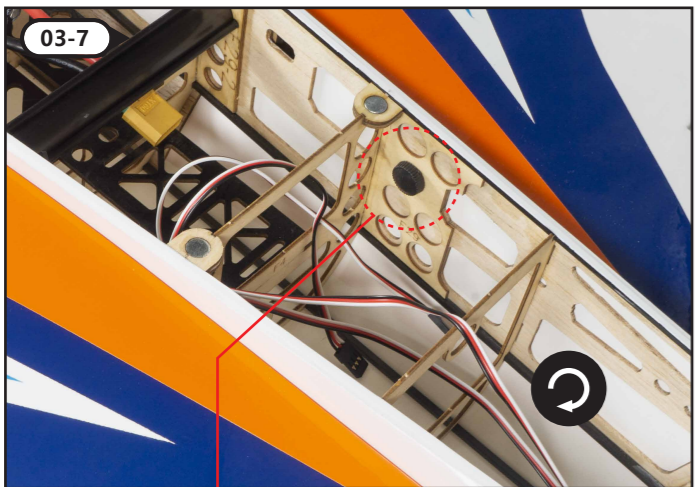
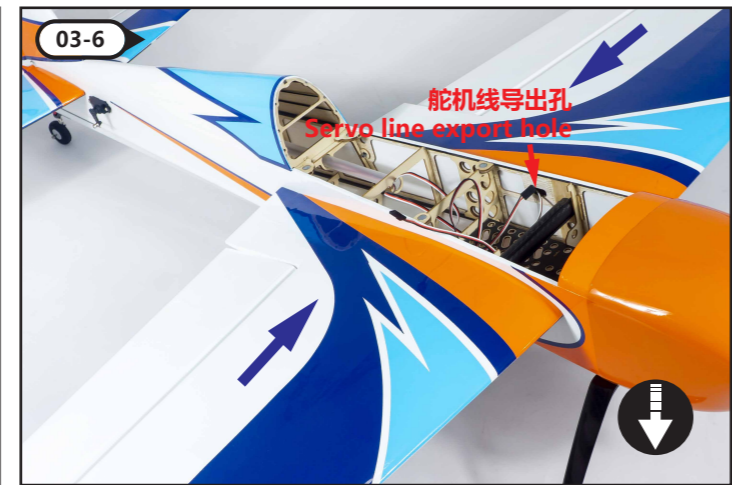
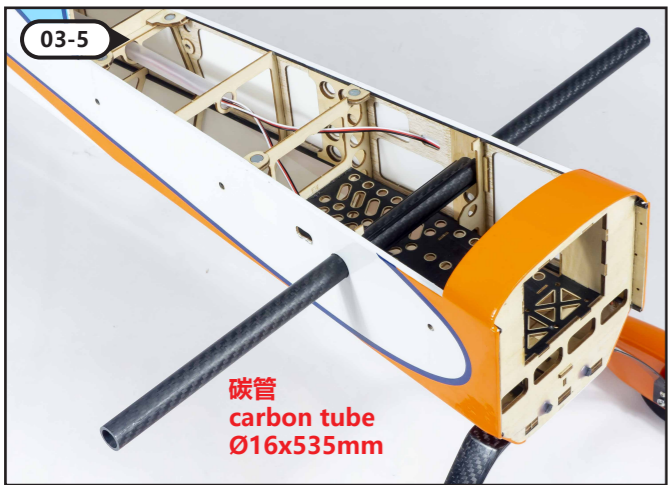
X4



如图制作舵臂，并把舵臂安装到舵机上。安装舵臂时，将舵机通电回中，两个舵机相同操作。
Make the rudder arm as shown, and install the rudder arm to the steering servo. When installing the rudder arm, power on the servos back to the center.



注意：左右机翼相同安装，按以上步骤完成另一边机翼安装
Note: the left and right wings are installed in the same way. Follow the above steps to complete the installation of the other wing.

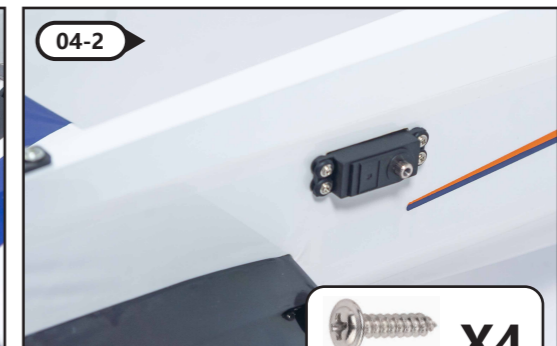


左右机翼相同安装
The left and right wings are mounted equally



左右机翼相同安装
The left and right wings are mounted equally

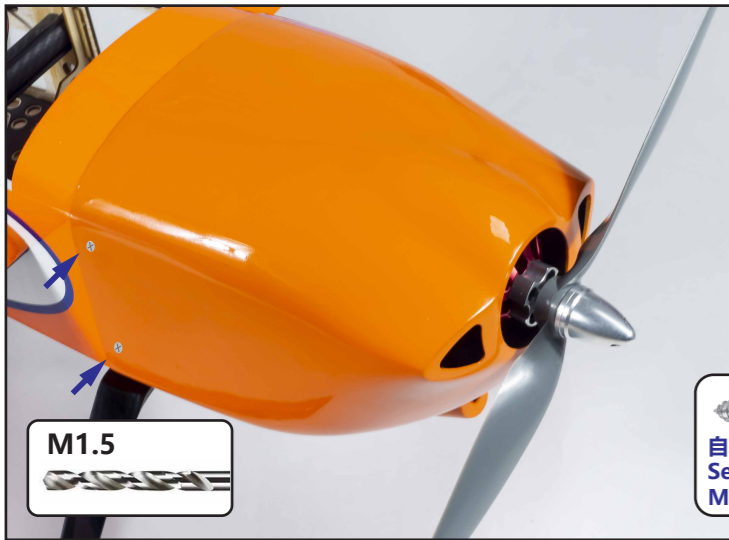
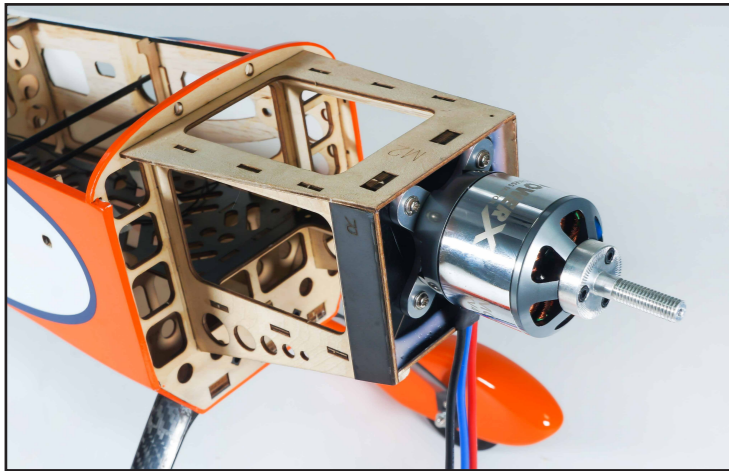
04 方向舵、升降舵舵机及连杆安装 Install rudder and elevator steering servo and connecting rod



舵臂上安装快装接头，然后安装连杆连接舵臂与副翼上舵角，调整到合适位置后，拧紧快装接头螺丝固定住连杆。
Install the EZ-connector on the rudder arm, and then install the connecting rod to connect the rudder arm and the rudder horn of the aileron. After adjusting to the proper position, tighten the screw of EZ-connector to fix the connecting rod.



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



马达固定到机头部，调整头罩的安装位置，达到马达轴伸出合适的长度，调整到马达桨叶与头罩互不干涉，最后在头罩侧面钻孔，用自攻螺丝固定头罩。
The motor is fixed to the head of the aircraft, and the installation position of the cowling is adjusted to extend the motor shaft to a suitable length. The propeller and cowling are adjusted so that they do not interfere with each other. Finally, drill holes on the side of the cowling and fix with self-tapping screws.



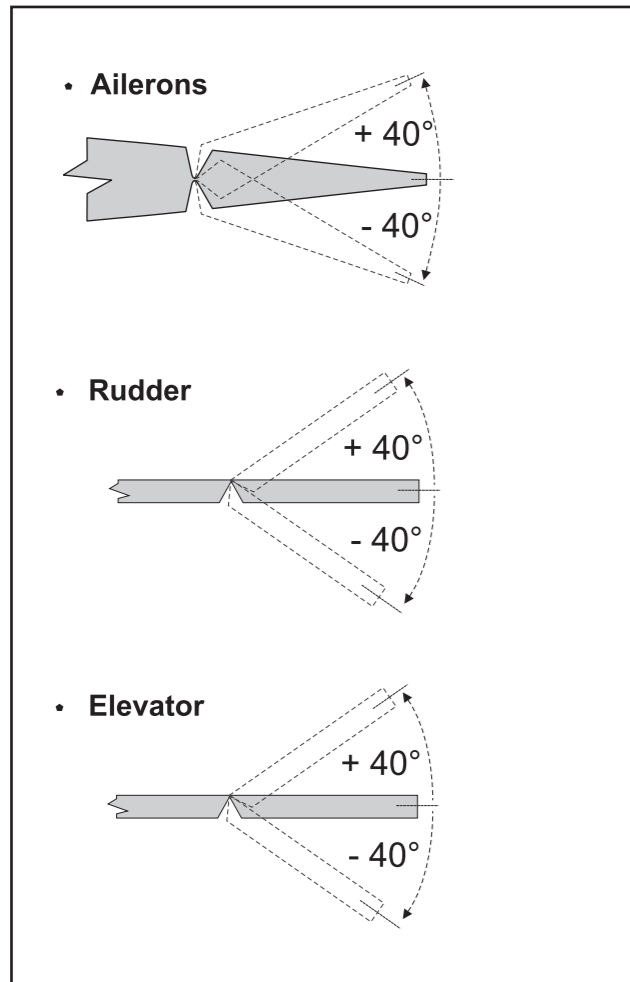
06 设置和调试 Set and Adjust

重心位置展示
Display the C.G



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>

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.

地面控制方向测试 Control Directions Tests

	遥控器动作 Transmitter Command	飞机反应 Aircraft Reaction
升降舵 Elevator	升降杆下拉 Lifting rod down	
	升降杆上推 Lifting rod up	
副翼 Aileron	转向杆向右 Steering rod to the right	
	转向杆向左 Steering rod to the left	
方向舵 Rudder	方向杆向右 Direction rod to the right	
	方向杆向左 Direction rod to the left	