

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:750mm
机长:525mm
起飞重量≈160g

Wingspan: 750mm
Length: 525mm
Flying Weight≈160g

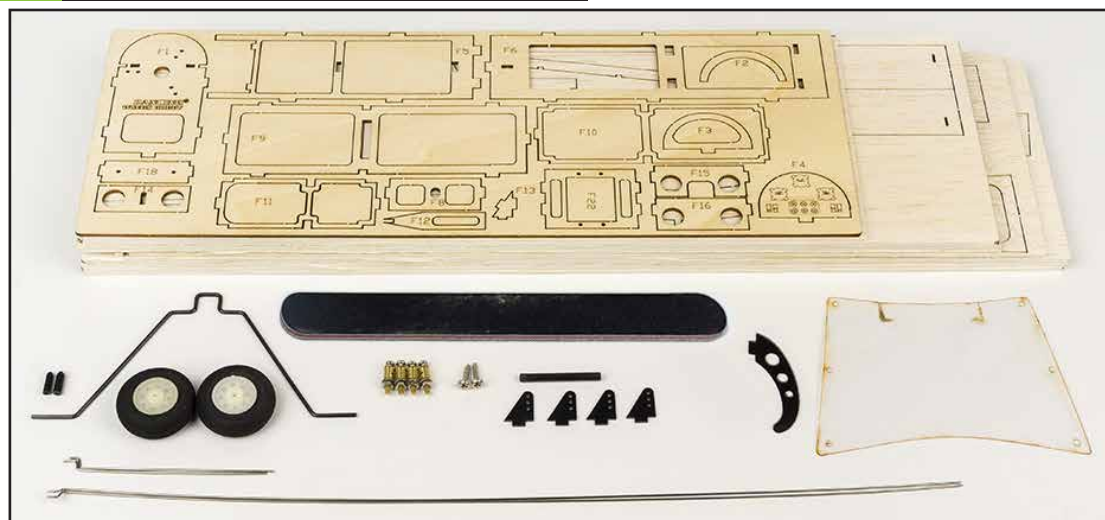
推荐配置
Suggested Equipment

推荐马达: MM1404 2900KV
推荐电调: 2S 10A
推荐舵机: 2.5g*4pcs
推荐桨叶: 5030
推荐电池 2S 200-400mAh
推荐4通道以上接收机

Suggested Motor: MM1404 2900KV
Suggested ESC: 2S 10A
Suggested Servos: 2.5g*4pcs
Suggested Propeller: 5030
Suggested Battery: 2s 200-400mAh
Radio≥4CH

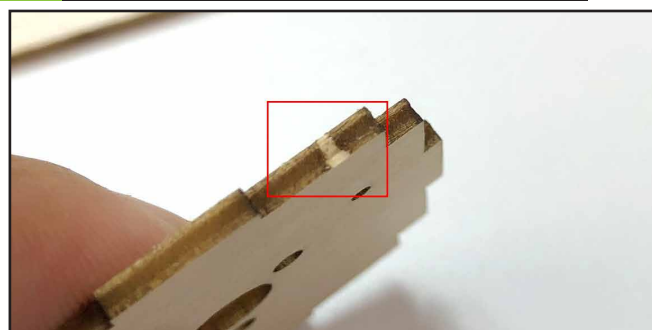
工具
Tools Needed





配件图仅供参考，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 maybe slightly differ from the photos due to continuous improvement on products.

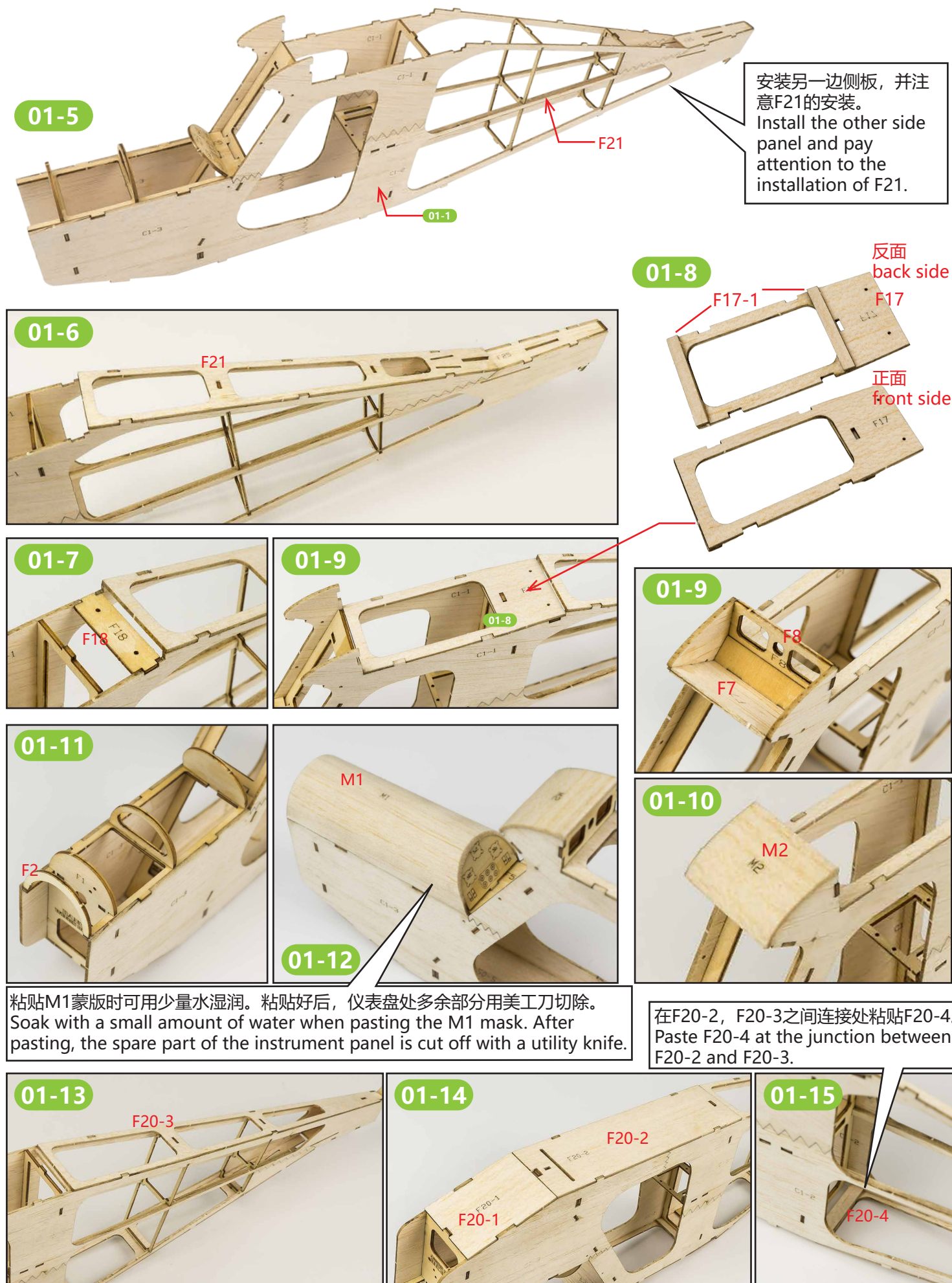
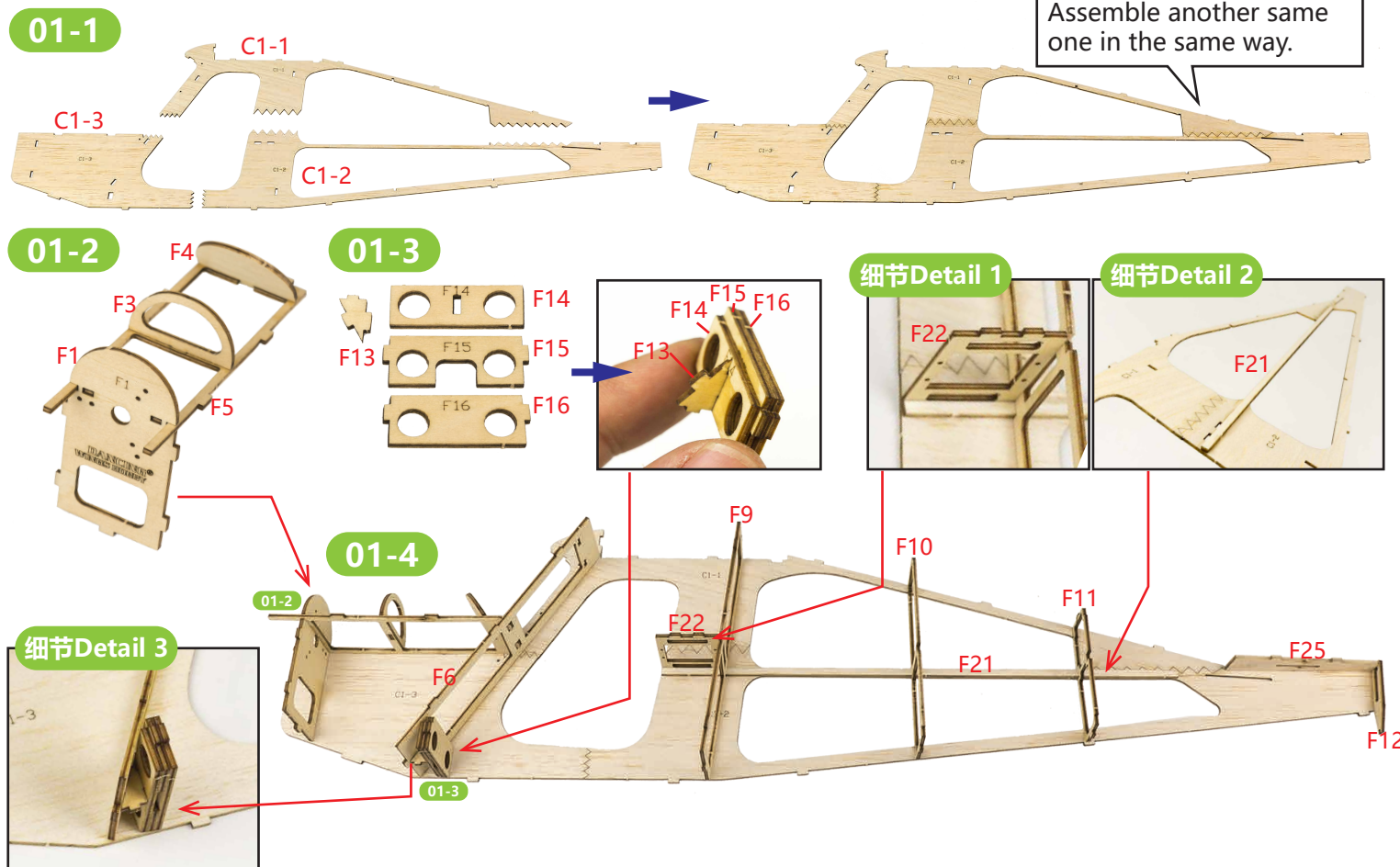
组装说明 How to Assemble



注意：木件用美工刀从板材上取下，各连接点用快干胶定型，用白乳胶固定。
Note: Take down the parts from the board by knife. pls use the fast dry adhesive as stablization to connect all joints and white latex as reinforcement.

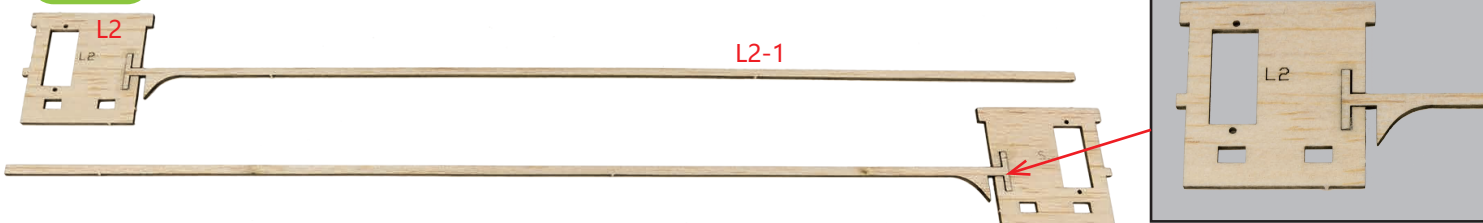
拼装之前 请打磨雕刻连接处的地方。
Pls polish the joints before assembly.

机身拼装 Assemble the Fuselage

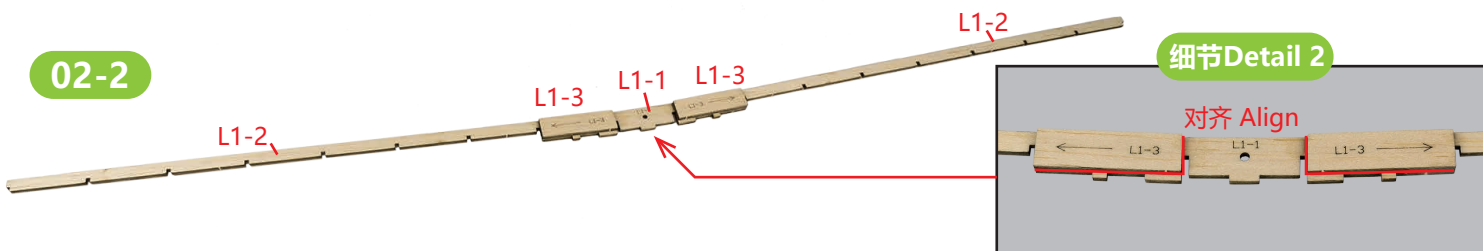


机翼拼装 Assemble the Wing

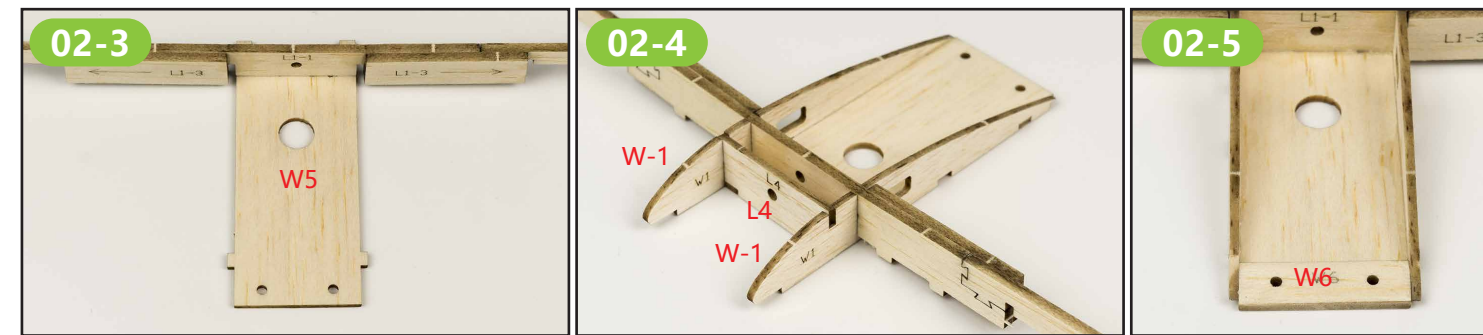
02-1



02-2



02-3



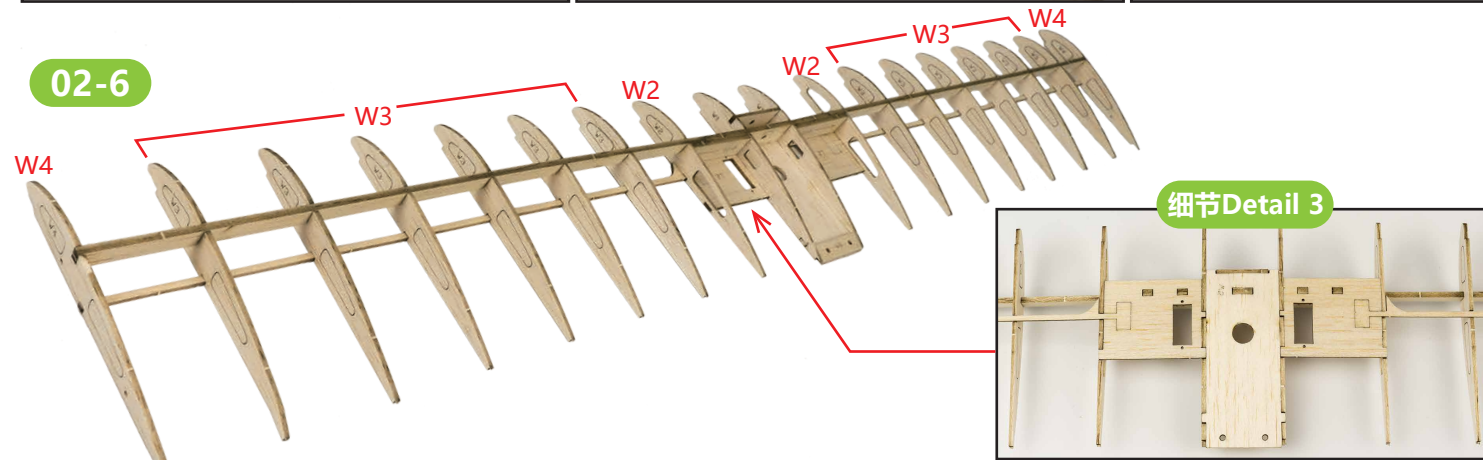
02-4



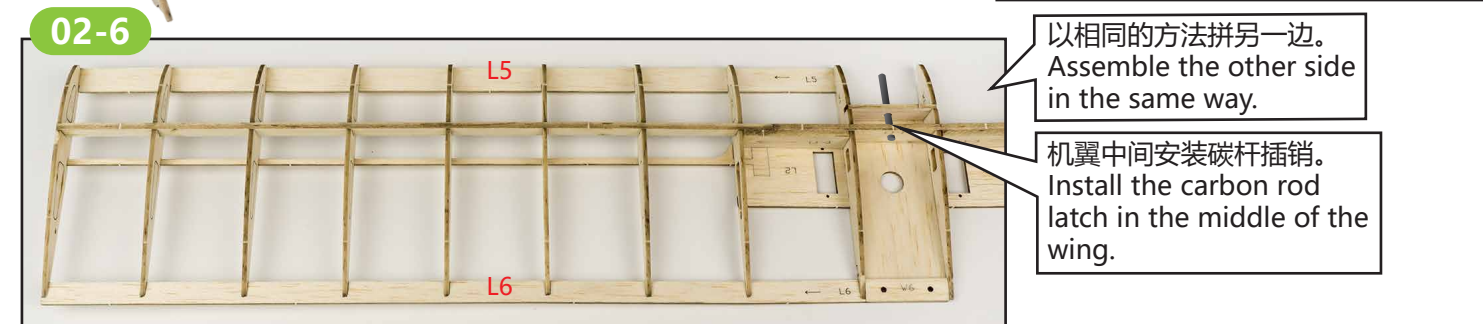
02-5



02-6



02-6



02-7



02-8



细节Detail 1

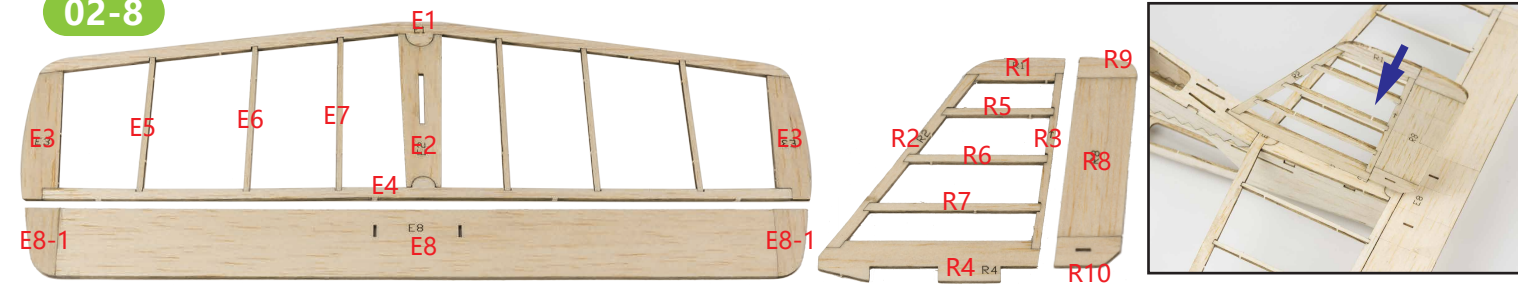
细节Detail 2

细节Detail 3

以相同的方法拼另一边。
Assemble the other side in the same way.

机翼中间安装碳杆插销。
Install the carbon rod latch in the middle of the wing.

02-8



舵面的安装 Install the Control Surface

03-1

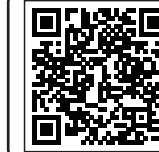
注意：先完成蒙皮，再安装舵面。

Remarks: Pls install the control surface after you finish the film covering.

副翼舵面，建议最多埋入3个合页，平尾垂尾舵面，建议最多埋入3个合页。It is recommended to embed at most 3 hinges for aileron control surface, and it is recommended to embed at most 3 hinges for horizontal and vertical control surface.

左右各埋入3mm左右，中间铰链部分留2mm左右，打胶固定并保证合页的灵活性。

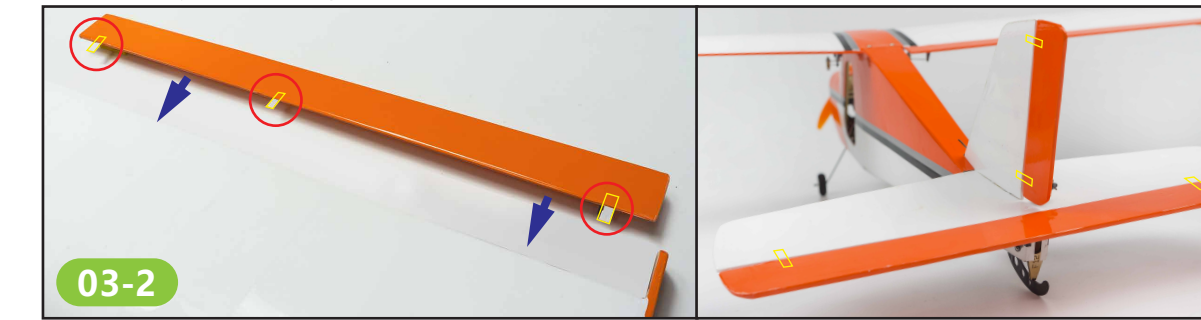
Each side is embedded about 3mm, and the middle hinge part is left about 2mm. It is glued and fixed to ensure the flexibility of the hinge.



蒙皮详细操作可查看以下链接内容，我们提供了蒙皮范本（可直接扫二维码）

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

03-2



起落架及风挡的安装 Install the Landing Gear and Windshield

04-1



起落架插入机身，中间缝隙插入小木片，用胶水粘固。
Insert the landing gear into the fuselage, then insert small piece of wood into the middle slit and glue them.

04-2

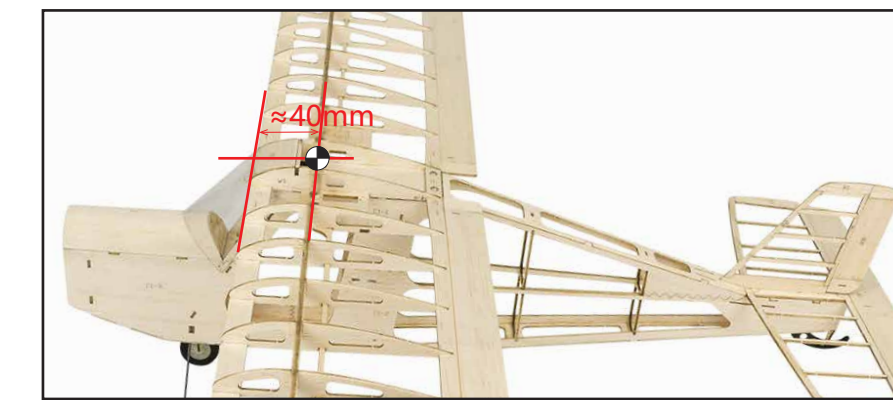


04-3



风挡折叠到合适形状，用快干胶粘贴。
Fold the windshield into a suitable shape and paste it with quick-drying glue

重心位置展示 Display for C.G



注意：设置重心时，可用电池配重，调整电池位置以达到合适的重心。然后用魔术胶带把电池固定在仓身内。

Note: When you adjust the C.G., you can use the battery as balance weight, and adjust the battery position to find the suitable C.G., then fasten the battery into the cabin with magic tape.

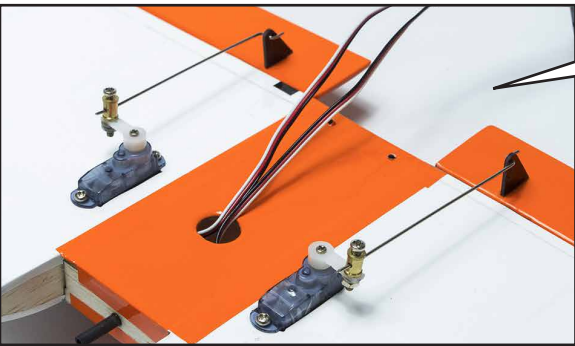
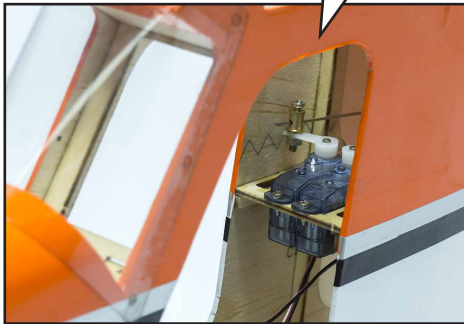
舵机的安装 Install the Servo



先安装舵机，并在安装舵角之前，将舵机通电回中立点。
Install the servo first and energize the servo back to the neutral point before installing the servo horn.



在舵面上安装舵角，将Z型钢丝连接到舵角上
Attach the servo horn to the rudder surface and connect the Z-head of the linkage rod to the servo horn
连杆另一端通过快装接头锁定到舵机舵臂上
The other end of the linkage rod is locked to the servo arm through the EZ-connector.
注意：您可能需要将舵机的摇臂扩孔到 Ø2mm 才方便安装舵机快装接头。
NOTE: You may need to enlarge the hole of the servo arm to Ø2mm to facilitate the installation of the EZ-connector.

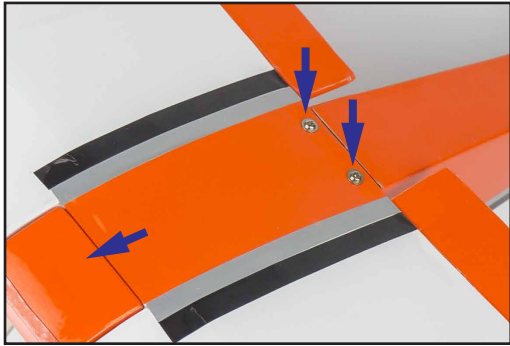


水平尾翼，垂直尾翼，副翼舵面均建议以同样的方式操作。
Horizontal tail, vertical tail, and aileron rudder are recommended to operate in the same way.

电子设备安装调试
Power System Installation and Adjustment



马达及桨叶安装示范
Install the Motor and Propeller



调试完成后，机翼用M2螺丝固定到机身
After the adjustment is completed, the wing is fixed to the fuselage with M2 screws.

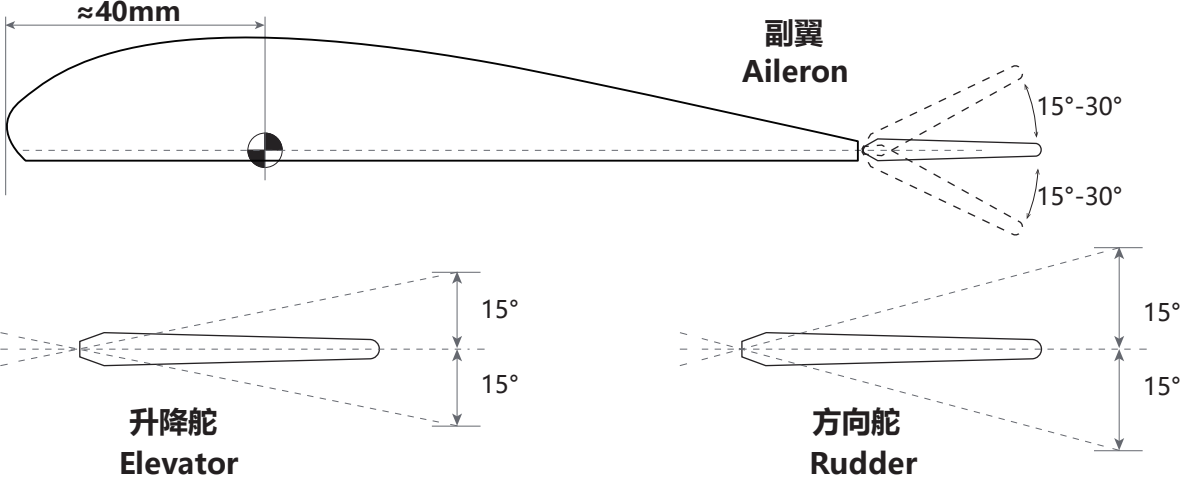


更多电子设备调试细节可参考以下链接查看
(可直接扫二维码)

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	