Balsawood Airplane

1.6M Fieseler Fi 156 Storch



Instruction Manual



历史背景 Historical Background

Fi-156于1936年由Gerhard Fieseler博士设计为侦察,联络和空中救护飞机。这架飞机有着独特的起落架,从支柱和窗户向外伸出,它的起落 架垂下,看起来非常像一只长腿的大鸟,所以它被赋予了绰号"Storch" (德语中的鹳)。

几乎没有任何关于Storch的简化。这是一架专门建造的短距离起飞和降落(STOL)飞机,在逆风时,可以在不到200英尺的高空飞行,当它以 低速着陆与强逆风相结合时, Storch几乎可以垂直降落, 有时看起来像向后飞。

The Fi-156 was created as a reconnaissance, liaison and air-ambulance aircraft in 1936 by Dr. Gerhard Fieseler. This unique airplane's legs, struts and windows stuck out everywhere, and its landing gear hung down, looking very much like a long-legged, big-winged bird, so it was given the nickname "Storch" (the German word for stork).

Virtually nothing about a Storch is streamlined. It was a purpose-built, short takeoff and landing (STOL) aircraft which, with a bit of headwind, could become airborne in less than 200 feet, and when its low landing speed was combined with a strong headwind, the Storch appeared to land vertically, and sometimes looked like it was flying backwards.

Suggested Equipment

推荐桨叶: 10-12寸

推荐舵机: 9qx8pcs

推荐6诵道以上接收机

Suggested ESC: 40A

Radio:more than 6CH

推荐电调: 40A

推荐马达: 2814-2820 KV800-1000

Suggested Motor: 2814-2820 KV800-1000

Suggested Battery: 4S 2200-2800mAh

推荐电池 4S 2200-2800mAh

Suggested Servo: 9gx8pcs

Suggested Propeller: 10-12inch

飞行参数

翼展:1600mm (63inch) 机长:1000mm (40inch) 起飞重量: 1.7-1.9kg

Fuselage Length: 1000mm (40inch)

选配配件

舵机延长线15cm 6根 Y线 3根 舵机反向器 2个

Servo extension wires 6pcs

● 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.

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。

- 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.

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

• 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

- 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
- 您的设备中可能包括一些玻纤和碳纤雕刻的部件,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
- 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

Specification

Wingspan: 1600mm (63inch)

Flying Weight: 1.7-1.9kg

Optional Parts

Y-wire 3pcs Servo Reverser 2pcs







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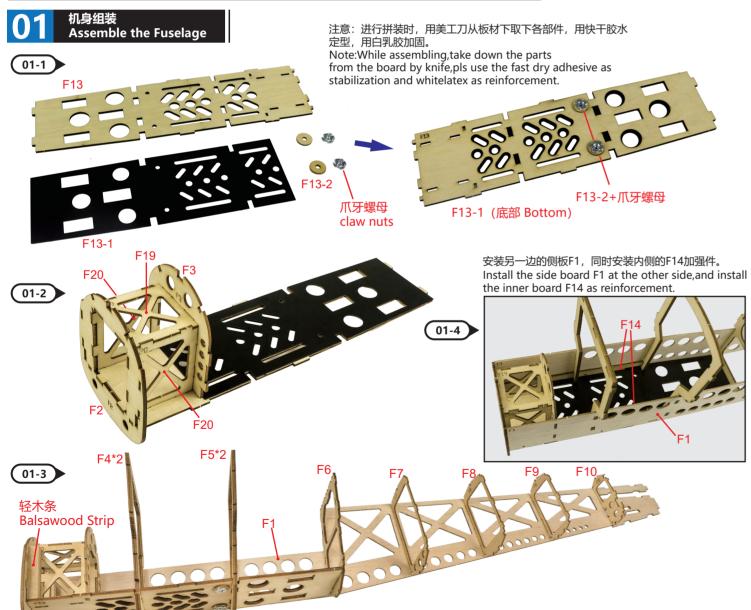


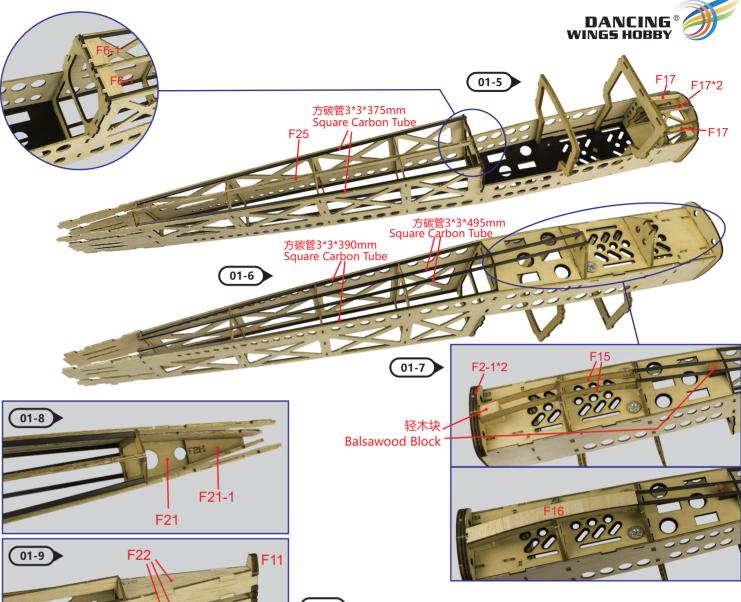
工具 Tools Needed

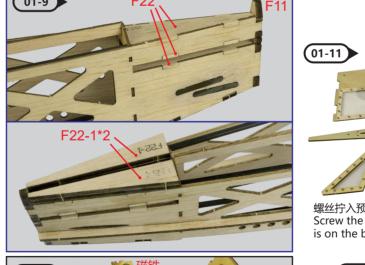


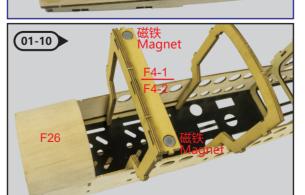
配件图仅做参考用,您收到的实物可能因为修改/优化的原因导致与图片有略有不同。

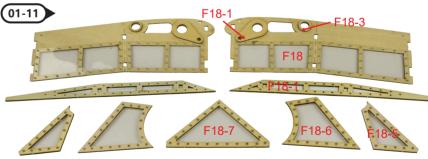
不同。
Photos shown here just for reference, the product you received maybe slightly differ from the photos due to continuous improvement on products.



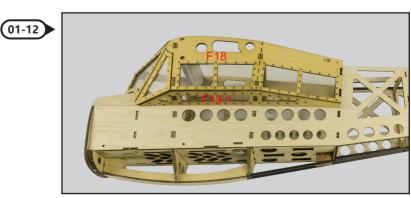


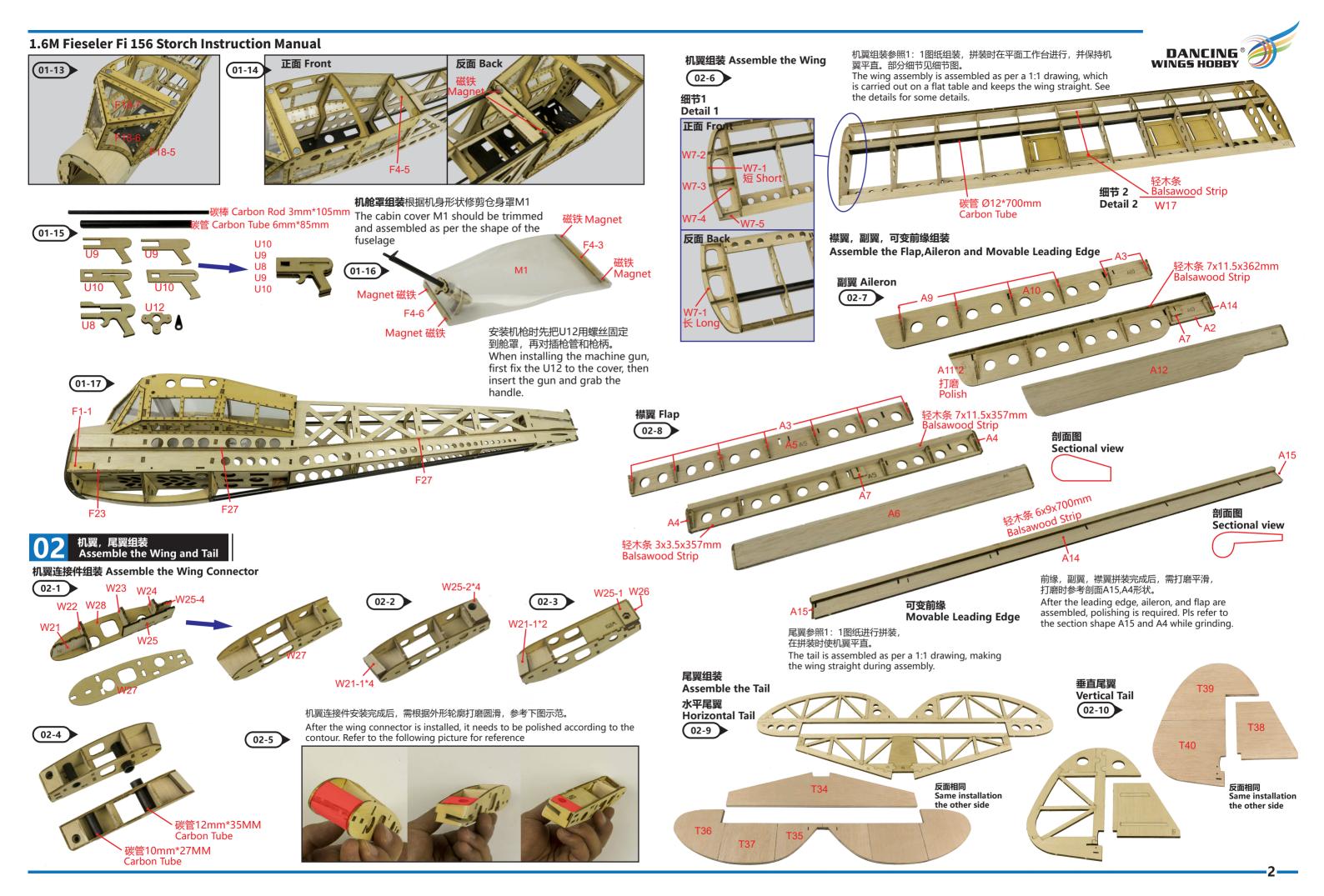


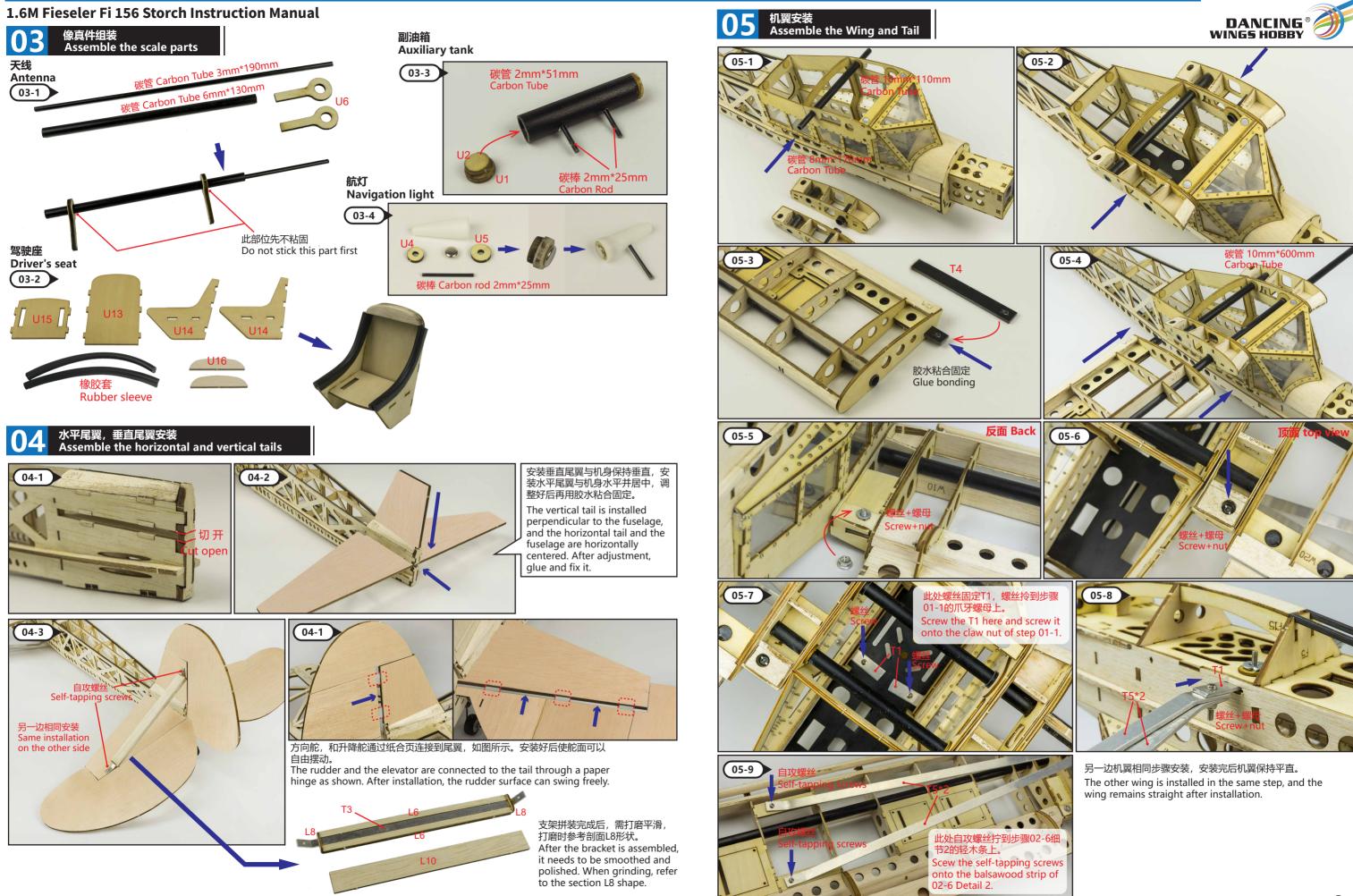




螺丝拧入预留孔,用螺丝固定PVC片,PVC在窗户背面。您可以完成蒙皮后再拎入螺丝。 Screw the screws into the reserved hole and fix the PVC piece with screws. The PVC is on the back of the window. You can cover the film and then screw in the screws.



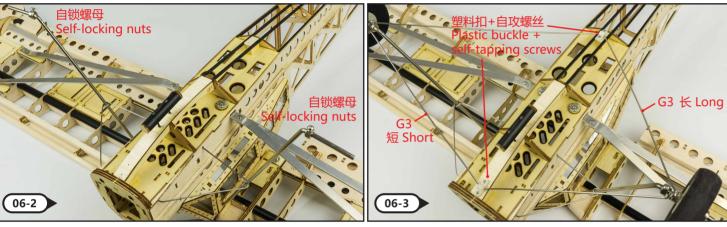








G1插入机身,用胶水粘 合固定,G2插入机身后 在内部用自锁螺母固定。 Insert the G1 into the fuselage and fix with glue;Insert the G2 into the fuselage and fix with self-locking nuts inside.





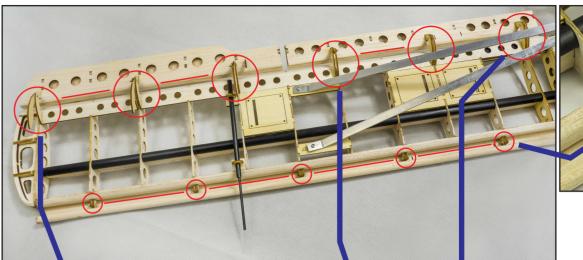
Assemble the Rear Landing Gear

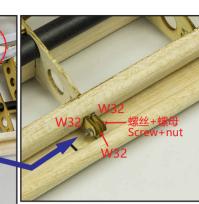


此处组装完成后,需打磨 平滑,参考截面形状。

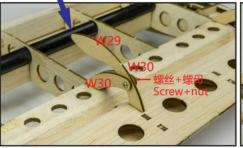
After the assembly is completed here, it needs to be smoothed and the reference section shape is required.

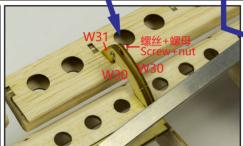
尾轮的钢丝插入垂直尾翼,用胶水粘合固定住,使尾轮可以随尾翼转动。 The steel wire of the tail wheel is inserted into the vertical tail and fixed with glue to make the tail wheel rotate with the tail. 可变前缘,襟翼,副翼安装 Assemble the movable leading edge,flap and aileron





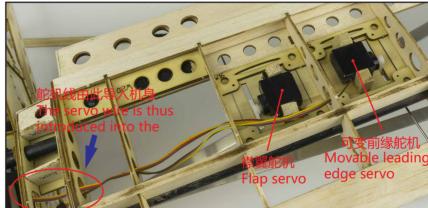
DANCING® WINGS HOBBY







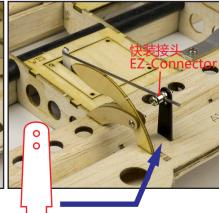
机翼内舵机安装 Install the servo inside the wing





可变前缘连接舵机 Movable leading edge connecting servo Flap connecting servo

副翼连接舵机 Aileron connecting servo



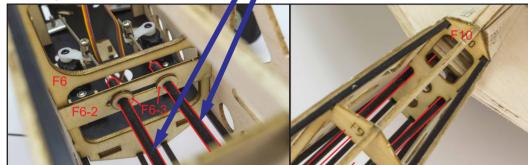
注意舵角方向 (如图朝向) Pay attention to the direction of the servo horn (as shown)

机身内舵机安装 Assemble the servo inside the fuselage

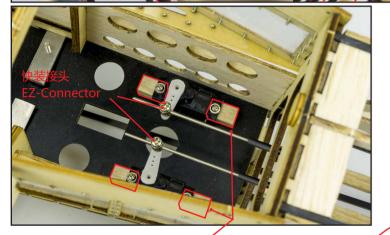
钢丝连杆穿入玻纤管, 然后穿入机身, 前端穿入F6-2/3固定, 尾端穿入F10 固定, 然后从侧板预留孔穿出。

Insert the steel wire rod into the fiberglass tube, then insert into the fuselage. The front end is fixed by F6-2/3, the tail end is fixed by F10, and then the hole is pierced from the side plate.

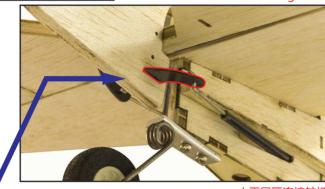
F6-2调整到合适位置后粘贴到F6板上。 F6-2 is adjusted to the appropriate position and then pasted to the F6 board.



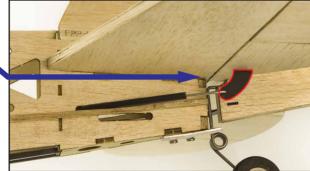
垂直尾翼连接舵机 Vertical tail connecting servo



此处安装舵机需用桐木块垫起一定高度 Here the servo should be installed with a paulownia block to a certain height.



Horizontal tail connecting servo



电机座及电机安装 **Install the Motor Mounting and Motor**

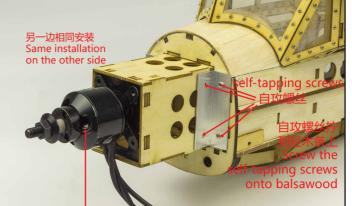


此处轻木条根据马达座与 角型铝件结合的位置调整

Here the balsawood strip is adjusted according to the position of the motor mounting and the angled aluminum piece.







电机安装示范, 电机座根据所选电机调整伸出长度, 调整好后用角型铝件固定住。

Motor installation demonstration, the motor mounting adjusts the extension length according to the selected motor, and after adjustment, it is fixed by the angle aluminum piece.

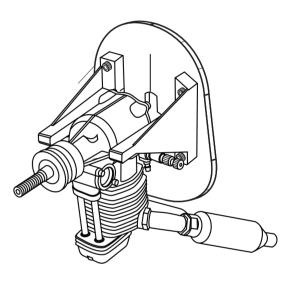
此机型结构为电动马达设计,如您需要安装油动引擎,我们为您提供了2 块油动引擎防火墙,安装需要一定的改装和加固,需要您自己动手修改。

This model is designed for electric motor. If you need to install the oil engine, we provide you with 2 oil engine firewalls. The installation needs certain modification and reinforcement. You need to modify it

yourself.

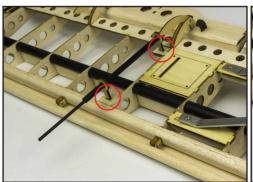




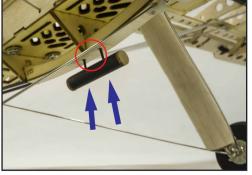


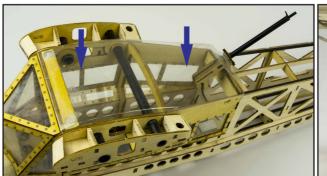
DANCING® WINGS HOBBY

Install the scale parts





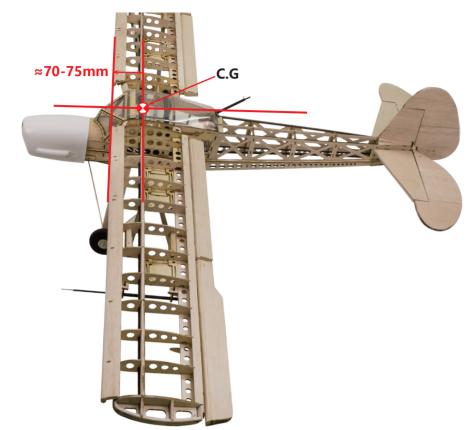




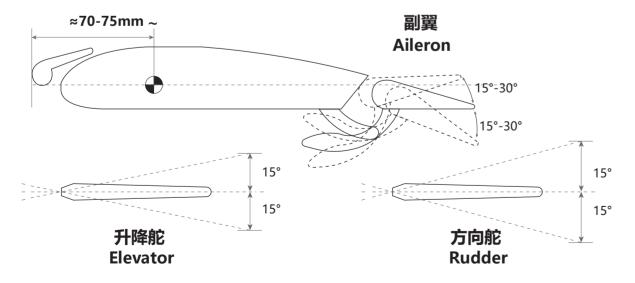


12 设置和调试 Set and Adjust

重心位置展示 Display the C.G



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





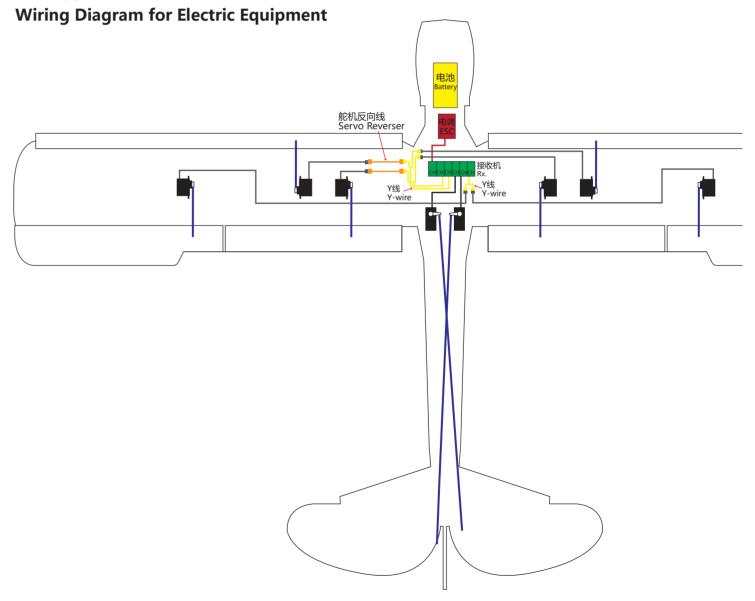
常规飞行(Normal Flying) 3D飞行 部分飞机支持(3D Flying only support some models)

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.

电子设备接线图



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	升降杆下拉 Lifting rod down	
Elevator	升降杆上推 Lifting rod up	
副翼	转向杆向右 Steering rod to the right	
Aileron	转向杆向左 Steering rod to the left	
方向舵·	方向杆向右 Direction rod to the right	
方向舵 Jappna	方向杆向左 Direction rod to the left	

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.