Micro PP material War Plane Hawker-Hurricane

Instruction Manual

飞行前的建议 **PRE-FLIGHT CHECKS**

- 安装舵机前, 清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 τογ

- 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.



http://www.dwhobby.com/ MADE IN CHINA



飞行参数 Specification

翼展: 420mm 机长: 302mm 起飞重量≈44g

Wingspan: 420mm Length: 302mm Flying Weight≈44g

推荐配置 **Suggested Equipment**

推荐马达: Brushed Motor 8520 推荐电调: 5A Brushed ESC 推荐舵机: 1.7g * 3pcs 推荐桨叶: 75mm Prop 推荐电池: 1S 350mAh 推荐通道≥4CH

Suggested Motor: Brushed Motor 8520 Suggested ESC: 5A Brushed ESC Suggested Servos: 1.7g * 3pcs Suggested Propeller: 75mm Prop Suggested Battery: 1S 350mAh Radio≥4CH



DANCING[®]







KIT

01-1

1_1.



机身拼装 Assemble the Fuselage



- A1-2: 机身 Fuselage
- B1: 机翼 Wing
- B2: 水平尾翼 Horizontal Tail
- C: 桨叶 Propeller
- D: 魔术贴 Velcro E: 加强木件
- Reinforcement Wooden Parts F: 马达 Motor
- G: 舵角 Servo Horn
- H1-2: 钢丝连杆 Steel Wire Linkage
- I: 热缩管 Heat-shrinkable Tube
- J:碳杆 Carbon Rod

在两片A2的反面均匀涂抹泡沫胶。 Apply the foam glue evenly on the reverse sides of the two pieces of A2.



把涂好胶水的A2粘到A1的两侧,粘 贴时对齐边缘及各对应的空位。 Glue the glued A2 to both sides of A1, and align the edges and corresponding spaces when pasting.

把转向舵从机身切下,用模型刀切 割转向舵与机身连接处,切出45度 斜面。

Cut the steering rudder from the fuselage, use a model knife to cut the connection between the steering rudder and the fuselage, and cut a 45-degree slope.



把舵机通电回中,并安装 一字型舵臂。然后在舵机 侧面涂抹泡沫胶。 Supply power for the servo and return it to center, install a straight servo horn. Then apply foam glue on the side of the servo.



机翼拼装 Assemble the Wing











如图所示,把舵机粘 到机身预留孔处。居 中粘贴。 Glue the servo to the reserved hole of the fuselage as shown in the picture.Pls take care to paste in the center.

如图所示,在机身预留的机翼插槽内涂 抹泡沫胶,两面均匀涂抹。 Apply the foam glue evenly on the reserved wing slots of the fuselage as shown in the picture.

从木板E上取下机翼支架,如图穿入机 身,并把机翼插入机身,机翼支架和机 翼连接,连接处用泡沫胶粘固。 Remove the wing bracket from the wooden board E, and insert it into the fuselage as shown in the figure.Insert the wing into the fuselage, connect the wing bracket and the wing, and fix the joint with foam glue.



如左图所示,用模 型刀在升降舵与尾 翼连接处切割出45 度的槽,注意请勿 切断,并保持转向 舵可以上下摆动。

As shown in the picture on the left, use a model knife to cut a 45-degree slot at the connection between the elevator and the tail. Be careful not to cut it, and keep the steering rudder to swing up and down.



把水平尾翼插入机身尾部, 连接处用泡沫胶粘固。 Insert the horizontal tail into the tail of the fuselage, and fix the joint with foam glue.



如上图,在转向舵上贴一段透明胶,然后把转向舵粘贴到机身尾翼上。保留1mm间距。 As shown in the above picture, paste a piece of transparent glue on the steering rudder, and then paste the steering rudder to the tail of the fuselage. pls take care to keep 1mm spacing.

舵机的安装 Install the Servo





舵机,上下交错安装。舵 机线从预留孔整理到同一

As shown in the picture on the left, the servo is installed in the middle of the fuselage, staggered up and down. Arrange the servo wires from the reserved holes to the same side.

如左图所示,用模型刀在副翼与机翼链接处切割出 45度的槽,注意副翼请勿切断,并保持副翼可以上 下摆动。

As shown in the picture on the left, use a model knife to cut a 45-degree slot at the connection of the aileron and the wing. Be careful not to cut the aileron, and keep the aileron to swing up and down.



连杆制作方法 Make the Connecting Rod



连杆连接舵机与升降舵、转向舵

The connecting rod connects the servos to the elevator and rudder



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









粘连。

Use a small amount of foam glue at the connection point under the steering rudder and the fuselage.

如左图,在机身中部安装



9钢丝连杆一端穿入舵臂, 另一端穿入舵角连接好两 个舵角后,把舵角粘固在副 躍上。

Insert one end of the wire rod into the rudder arm and the other end into the rudder horn. After the two ends are connected, the rudder horn is glued to the aileron.

如左图,截取合适长度的热缩管,把Z型钢丝和碳杆套再一起,加热热 缩管缩紧,然后点入少量CA胶加固。 As shown in the picture on the left, cut the suitable length of the heat shrinkable tube, sleeve the Z-shaped steel wire and the carbon rod together, heat the heat shrinkable tube to shrink it, and then add a small amount of CA glue to reinforce it. 注意: 2根连杆只做好一端的Z型头, 另一端待后续步骤再制作。 Note: For the two connecting rods, only one end of the Z-shaped head should be made, and the other end will be made in subsequent steps.

把制作好的一端Z型头穿入舵机的舵 臂, 然后参考尾翼上舵角的位置, 确定连杆合适的长度,并切除多余 的碳杆。

Insert the finished Z-shaped end into the rudder arm of the steering gear, and then refer to the position of the rudder horn on the tail to determine the appropriate length of the connecting rod, and cut off the excess carbon rod.

然后对照步骤制作连杆另一端的Z型 头。

Then follow the steps to make the Z-shaped head at the other end of the connecting rod.

完成Z型头后,把Z型头穿入舵角, 把舵角用泡沫胶粘在舵面上。 After finishing the Z-shaped head, insert the Z-shaped head into the rudder horn, and glue the rudder horn to the rudder surface with foam glue.

从M上取下马达固定座,穿入马 达, 然后用泡沫胶把马达粘在机 身头部,并插入桨叶。 Remove the motor mount from the M, insert the motor and glue it to the head of the fuselage with foam glue, then insert the propeller.



左图示范微型接收机安置位置,也可根据您所选设备自行安装。 The picture on the left demonstrates the installation position of the mini receiver, or you can install it yourself according to the equipment you choose.

此处推荐 AEO RX14X系列多合一接收机。

AEO RX14X series all-in-one receiver is recommended here.

购买链接: Purchase link: https://www.aeorc.com/products/rx14mini-receiver-integrated-5a-1s-brushedesc-for-micro-indoor-airplanes



说明链接: Description link:

https://www.aeorc.com/rx14amp14

左图示范电池放置位置,用魔术贴固定到机身。可调整电池位置来调整重心。 The picture on the left demonstrates the placement of the battery, which is fixed to the body with Velcro. The center of gravity can be adjusted by adjusting the position of the battery.



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

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机身。

Note:When you adjust CG, you can use battery as balance weight, adjust battery positon to find the suitable CG, then fasten the battery on the fuselage with magic tape.

| 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 Command | |
|-----------|-------------------------------------|-----|
| 升降舵、 | 升降杆下拉 Lifting rod down | T |
| Elevator | 升降杆上推 Lifting rod up | LT. |
| 副翼口 | 转向杆向右 Steering rod to the right | 1 |
| Aileron 題 | 转向杆向左 Steering rod to the left | |
| 方向舵 | 方向杆向右 Direction rod to the right | |
| 舵 undder | 方向杆向左 Direction rod to the left | |

