

H·KING



PNF 1250mm High wing sports model



INSTRUCTION MANUAL

PNF
PLUG N FLY

Please read this manual carefully before operating this plane.



WARNING

Read this instruction manual fully so as to become completely familiar with the features of the product before operating. Failure to operate this product correctly could result in damage to the product, personal property and cause serious injury. This is a sophisticated hobby product and is NOT a toy. It must always be operated with caution, common sense and some basic mechanical ability. This manual provides instructions on the assembly, safe operation and maintenance of this hobby product. It is highly recommended that you read and follow fully the instructions and warnings stated in this manual including safety, assembly, set-up and flying guidelines in order to operate this product correctly and avoid damage or serious injury.

SAFETY PRECAUTIONS

As the user of this product you and you alone are responsible for operating it in a manner that does not endanger yourself and others around you or result in damage to the product or property of others. This product is operated via a radio controlled system that in some cases can be subject to interference from sources outside of your control. Interference may result in a momentary loss of control so it is always recommended that this product be used in a suitable open outdoors space.

- This is a radio controlled flying model and as such must always be flown with caution, this is NOT a toy.
- The H-King KitFox brief was to design a model for low hours to intermediate pilots.
- Always exercise great caution when using the recommended battery to power this product. For full safety notes and operating procedures please read the information provided by your battery supplier.
- Take great care when connecting/disconnecting the battery. Once again see your battery suppliers information for the full safety procedures.
- Never power up the model in a confined space and always keep the propeller clear of obstructions, clothing and parts of your body.
- This product is not a toy, children must be accompanied by an adult at all times when operating this product.
- Only fly this model in an open area away from crowds, people, buildings, trees, power lines, roads, airports and other obstructions.
- Always put safety first when operating this model and consider the warnings stated above.
- The supplier/manufacture accepts no responsibility for damage or injury caused through the use of this product. A reminder that it is not suitable for children under the age of 14.



INTRODUCTION

Thank you for purchasing the H-KING Kit Fox, a versatile RC plane inspired by the beloved Freedom Fox design.

The Kit Fox features a high-lift, stable wing that allows for quick takeoffs. It has predictable handling across a wide speed range. Its straightforward, no-fuss construction makes it an ideal companion for flyers who want pure RC enjoyment without complexity. Durable, oversized soft tires pair with shock-absorbing landing gear to help the Kit Fox roll over rough terrain. Assembly is hassle-free, thanks to a low parts count and an intuitive build process.

This version of the Kit Fox also includes thoughtful additions to tailor the flying experience to your preferences:

Two wingtips – Swap them to alter the wingspan and change the flight characteristics.

Thrust angle washer – Adjust the motor's thrust angle to better suit your flying style.

Optional servo extension cable for a flaperon setup – Minor modification required: trim a small amount of foam to create extra clearance for servo travel when using flaps.

Enjoy the freedom of flight with the H-KING Kit Fox.

SPECIFICATIONS

- 2814 1050kv motor
- 40 amp ESC
- Wingspan:
 - Sport 1100mm (short wing tips),
 - STOL1250mm (long wing tips)
- Length: 900mm
- Flying Weight: 1200g

REQUIRES TO FLY

- 4-6 ch RC Transmitter and receiver
- Flight Battery
- 1500~2200mAh 3S 35~60C LiPo battery
- LiPo Charger

REQUIRES TO BUILD

- Phillippe screwdriver
- Hobby Knife
- Non permanent Thread lock
- Foam Glue



CONTENT

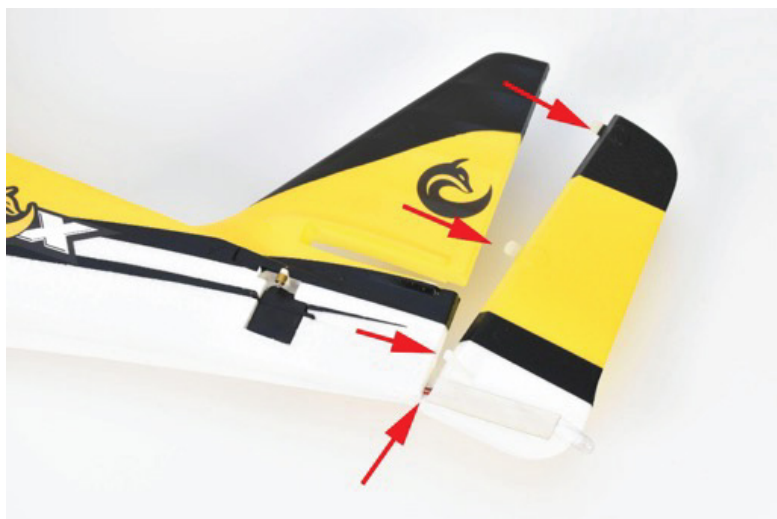


- | | |
|--|---------------------------|
| 1. Main Wing | 8. Thumb Screw |
| 2. Horizontal stabilizer | 9. Wing strut |
| 3. Fuselage | 10. Spinner |
| 4. Main landing gear | 11. Valco strap and hex |
| 5. Wing Tip (Short) | 12. Push rod set |
| 6. Wing Tip (Long) | 13. Propeller and adapter |
| 7. LED Y Lead, Servo Y Lead, Servo extension cable*2 | 14. Rear landing gear |



ASSEMBLY

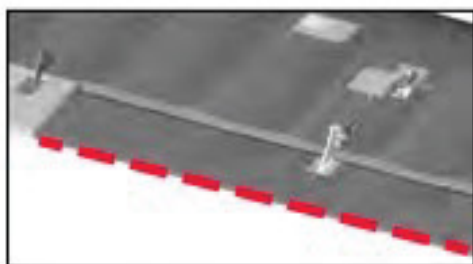
Step 1: Attachment of the Horizontal Stabilizer and Tailwheel



1. Locate the vertical stabilizer and temporarily remove the rudder. The rudder is the hinged control surface attached to its rear. Be careful not to damage the connection tabs and LED wire



2. Locate the horizontal tail and slide it firmly into the slot as shown. Use glue for extra security and make sure it is at 90 degrees to the vertical stabilizer. Install the Rudder back to its original position when finished.



Aileron



Elevator



Rudder

3. Turn the fuselage upside down. Connect the elevator and rudder push rod to the control horn and servo arm as shown (A , B and C) . To ensure both the elevator and rudder are neutral, you may loosen the screw of the piano wire faster . Tighten firmly when done.

Step 2: Undercarriage and Main wing Assembly



4. Prepare the tail wheel parts (A), insert the tail wheel assembly into the slot of the plastic housing and tighten the grub screw (B). Install the tail wheel assembly on the bottom of the rudder and secure it with glue.



5. Install the main gear to the bottom of the fuselage (A). slide the main gear steel wire into 2 slots as shown in (B) . Squeeze the landing gear into the middle to have better alignment for easy fit (C).



6. Snap the landing gear cover into the slot as shown in (A) . Pay attention to the orientation of the landing gear



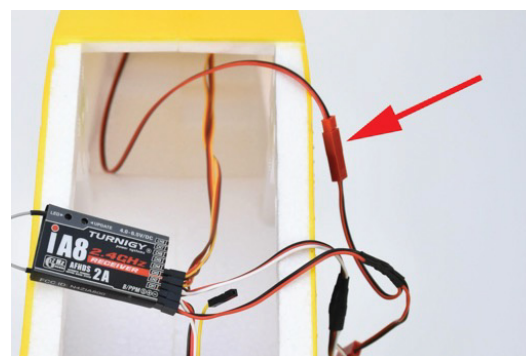
7. Locate the wing tip, plug the wing tip LED wire and insert the guide rods into the main wing and snap them in places , the magnets will hold the wing tips.



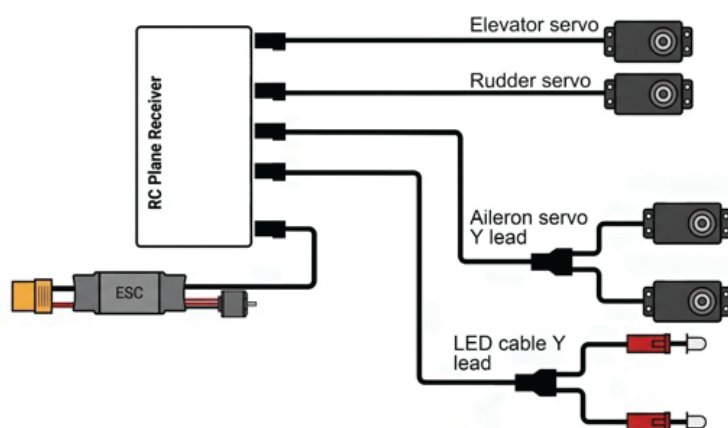
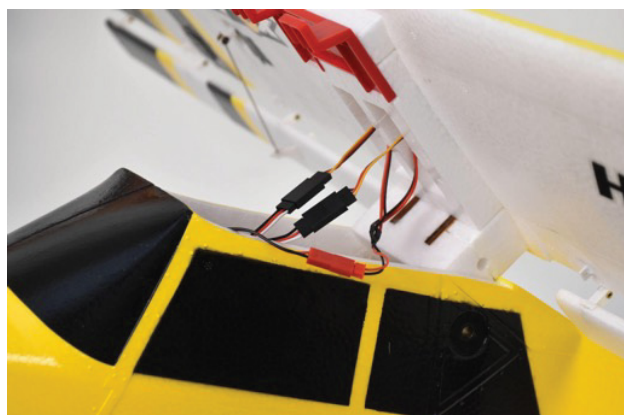
Step 3: Setting up the Radio and Servos.



8. Prepare your radio control equipment.



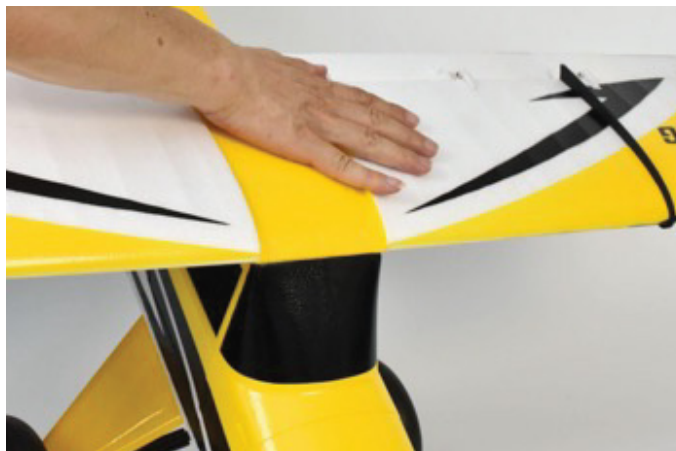
- 9. Connect ESC to the throttle channel of your receiver. Connect the JST Y lead (A) to the tail light and the other end to an open channel of your receiver. Connect servo Y lead (B) to the aileron channel of your receiver. Connect elevator and rudder servo wires into their corresponding channel of your receiver. (C)**



10. Locate the main wing, connect 2 Ailerion servo to the Y lead. Connect the main wing LED to the JST Y lead



11. Install your receiver in the fuselage as shown In the main compartment of the fuselage. Secure the receiver with a small vocal or double side tape.



12. Make sure all plugs are correct and in a secure connection. Install the wing to the fuselage using two thumb screws. Do not pinch any wires when tightening the screw.

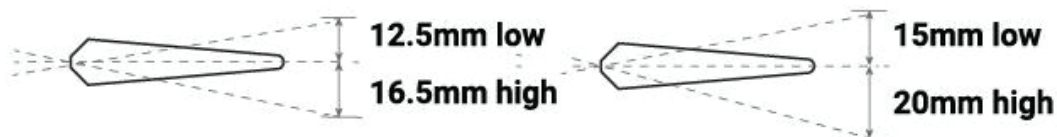
Step 4: Setting up the Servos



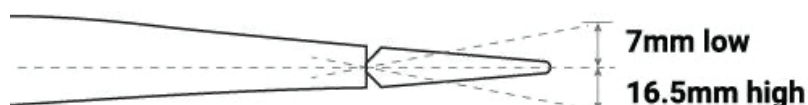
13. DO NOT install the propeller. Remove the battery hatch. Turn on your radio and plug in the flight battery.



Elevator: +/- 16.5mm high, 12.5mm low **Rudder:** +/- 20mm high, 15mm low



Aileron: +/- 16.5mm high, 7mm low



14. The tail LED and wingtip LEDs should be up. All control surfaces should be functioning at this stage. Adjust the control surface throws with your Radio equipment according to our suggestion.

15. UNPLUG the battery when finished

Step 5: Wing Strut Assembly.



16. Attach wing struts as shown using M3x12 screw , you need 3 screws on each side.



Step 6: Fitting the Propeller



17. Prepare the propeller and remove the pre-installed Prop nut and washer



18. Use the propeller insert that fits the motor shaft. Press the insert tightly into the propeller



19. Install the spinner backplate to the shaft, follow by the propeller, washer and prop nut. Tighten the prop nut. Check the orientation of the propeller



20. Attach the Spinner and tighten with screws



Optional: Due to the Kitfox's high thrust-angle flight characteristics, you can lower the pitch of the motor to reduce the angle. Simply install the supplied washers between the motor mount and the motor to achieve.





Step 7: Battery Installation and Setting CG

1. The recommended center of gravity (CG) for the Prime Tundra should be approximately 32mm from the leading edge of the wing. This should be easily achieved if you use a 2200 mAh 3S LiPo battery weighing between 160~185g. Ensure the battery is secure with the supplied hook and loop tape once the position of the battery is determined.

**** Do not connect the battery when setting up the CG****

FLYING THE KITFOX

PRE-FLIGHT & FIRST FLIGHT – H-KING KIT FOX

Before your first flight, we strongly recommend joining a local club for expert help. If that's not possible, follow these essential steps carefully.

1. Choose your site & conditions

Fly in light wind (under 5mph / 8kph). Use an open area with short grass, away from roads, trees, power lines, buildings, people, and airports (at least 3 miles / 5km from full-size airfields). Stay below 400ft.

2. Pre-flight check

Inspect the Kit Fox for damage. Check linkages, wing fixings, tail, landing gear, and propeller security.

3. Power on

Switch on your transmitter. Check trims and switches. Connect the flight battery. Keep the Kit Fox still with the motor disarm function of your transmitter. Do not arm your motor unless you are ready to taxi / fly.

4. Control direction test

Move the sticks: left aileron stick → left aileron goes up. Down elevator elevator goes up. Right rudder → rudder moves right.

5. Range test

Have a helper hold the Kit Fox. Walk 25–30 paces away, press the transmitter's range test button, and check servo movement. If it fails, do not fly.

6. Takeoff

Face the Kit Fox into the wind. Stand behind it. Disarm the motor. Smoothly apply full throttle. The Kit Fox will lift off into a steady climb on its own. Add a slight up-elevator if needed on long grass.

7. Climb & turn

Climb to 100–150ft, then reduce throttle to 50–60%. Make gentle turns. Keep the Kit Fox close and upwind. Remember: when flying toward you, controls appear reversed.



8. Trim for level flight

At 50% throttle, the Kit Fox should fly straight and level. Adjust aileron, elevator, and rudder trims as needed.

9. Practice gentle turns

Use a little up-elevator in turns. Control height with throttle, not elevator. If confused, let go of the sticks and reduce throttle – the gyro will help.

10. Landing (no flaps for beginners)

Fly a right-hand circuit at ~100ft. Reduce throttle on downwind, then to 30% on base leg. On final approach, adjust power to control descent. Between 1–2ft above ground, close throttle. Add a slight up-elevator just before touchdown for a three-point landing.

11. After landing

Disarm the motor immediately. Disconnect the battery first, then turn off the transmitter. Congratulations – you've completed your first flight with the Kit Fox!



RECOMMENDED ACCESSORIES



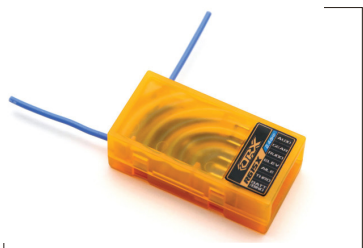
Turnigy/FrSky TWIN X14
ACCESS 2.4GHz Transmitter
SKU: 9236720209



FrSky TW R6 Dual 2.4GHz 6ch
TW Protocol SBUS/FBUS/S.Port Receiver
SKU: 9236720013



Turnigy Heavy-Duty
Folding Airplane Stand
SKU: 1021680019



OrangeRx R615X DSMX Compatible
6Ch 2.4GHz Receiver
SKU: 9101800001-0



Turnigy 2200mAh 3S (11.1V) 40C
LiPo Battery Pack w/XT60
SKU: 9067110030



Turnigy Heavy Duty 2200mAh 3S
60C Lipo Pack with XT60
SKU: 9067160609



Turnigy 3300mAh 3S (11.1V)
30C Shorty LiPo Battery Pack with XT60
SKU: 9067110010



Turnigy APEX 2200mAh 3S
11.1V 180C LiPo Battery with XT60
SKU: 9067110092



SPARE PARTS



Fuselage set
SKU: 9898790064



Wing set (without wing tips)
SKU: 9898790065



Horizontal Stabilizer
SKU: 9898790066



Main wing tips (short)
SKU: 9898790067



Main wing tips (long)
SKU: 9898790068



Propeller
SKU: 9898790076



Wing struts
SKU: 9898790069



Hatch
SKU: 9898790070



Main gear set (without wheels)
SKU: 9898790071



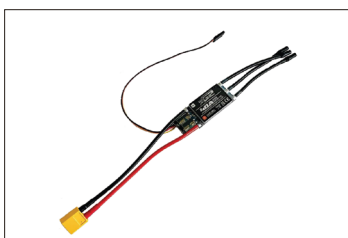
Main wheel set (2pcs)
SKU: 9898790072



Tail wheel assembly
SKU: 9898790073



2814 Motor
SKU: 9898790074



40A ESC
SKU: 9898790075

H·KING

Made in China

