

4-Max F3D-1000 Sky Sprite Assembly Instructions



Specifications

Type	F3D
Material	EPO Foam
Wingspan	1000mm / 39.4"
Length	1000mm / 39.4"
Flying Weight	Approx 760g / 1.76lbs (inc 3S 2200mAh battery)
Skill Level	Intermediate/Advanced



Many thanks for purchasing the 4-Max F3D-1000 Sky Sprite Kit from 4-Max Models. We hope you enjoy your new model.

At 4-Max Models, we like to offer competitive prices, good performance, and products that you can setup and use with ease. That's why we have extensively researched and tested this airplane and suggested all the products necessary for you to have a great performing aircraft.

By purchasing and/or building this model, the user assumes ALL liability and risk involved with this product. This model should be built and flown by an experienced builder and R/C Flyer.

4-Max Models guarantees this model to be free of defects at the date of purchase. This warranty does not cover any parts damaged by use, modification or crash damage.

In no way shall 4-Max Models liability exceed the original cost of the purchased model. Further, 4-Max Models reserves the right to modify this warranty without notice. 4-Max Models has no control over the final stages of assembly or the materials/glue used for the final assembly.

By the act of using the final product the user accepts all resulting liability.

4-Max Models, as an R/C supplier provides a top-quality model and instructions to complete the model. The quality and flight characteristics of the finished model will depend greatly on how it is built. We cannot guarantee the performance for the completed model and representations are expressed or implied as to the performance of the completed model.

If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately, in new and unused condition for a full refund.

Safety in Assembly

During assembly of this airplane, you will need to use sharp knives and glues. Please follow all safety procedures recommended by the manufacturers of the products you use, and always follow these important guidelines: ALWAYS protect yourself when working with adhesives, knives, or tools. Safety glasses are advised to protect your eyes.

Safety in Flying

This is NOT a toy! It is a high-performance R/C model capable of high speeds and extreme manoeuvres. It should only be operated by a competent R/C pilot in a safe area with proper supervision. ONLY fly your airplane in a safe, open area, away from spectators and vehicles—and where it is legal to fly. Never run your motor inside a house or building with the propeller attached – Remove the prop for safety. Never run the motor on the ground at full or near full throttle for more than 20 seconds. We recommend you get insurance from the BMFA.

SAFETY PRECAUTIONS This radio control model is not a toy.

- First-time builders should seek the advice of experienced modellers before commencing assembly and if they do not fully understand any part of the construction.
- Assemble this kit only in places out of children's reach!
- Take enough safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

WARNING:

Choking hazard! This product contains small parts. NOT suitable for children under 3 years. Contains electrical components and should be kept dry at all times. Regularly check the battery charger wires, plugs and shell and other components for damage. DO NOT use if any part is damaged.

Caution proceeding

1. Detachable small parts should be stored safely and out of reach of children.
2. If interference is experienced, turn the model off and try it again in a different area
3. Remote control will not function correctly if the batteries are low. Please replace the batteries.
4. Please discard old/used batteries in a safe manner. Consider your environment!
5. Please store the remote control in cool, dry place.
6. DO NOT expose to fire or high temperatures, moist storage.
7. Should the battery get wet, wipe immediately with a soft dry cloth. If transformed, please stop usage.

Battery use caution proceeding

1. Model uses a set of Li-Po 11.1V rechargeable batteries.
2. Please pay attention to correct polarity when replacing batteries.
3. Rechargeable batteries should be charged under adult supervision.
4. DO NOT use a mix of old and new or different types of battery.
5. After the battery is exhausted, the model should be removed.
6. DO NOT short circuit any terminals.
7. DO NOT attempt to recharge non rechargeable batteries.
8. Remove batteries from the model when recharging.
9. DO NOT put batteries into a fire or into water.
10. The rated input voltage battery charger MUST be suitable for your mains power voltage.
11. During charging it is quite normal for the charger and batteries to heat up.

Required Items

- | | |
|----------------------------|--|
| • Foam Safe Glue | Recommended Deluxe Materials Foam 2 Foam and Cyano |
| • Transmitter and Receiver | Minimum 4 channel, 6 is recommended |
| • LiPo Battery | 3S, 2200 mAh LiPo Minimum 40C, 60C Recommended |
| • Suitable LiPo charger | LiPo charger, MUST be LiPo compatible |
| • Sharp knife | |
| • Small pliers | |
| • Wire cutters | |
| • Petroleum jelly | |

All of these items are available from www.4-max.co.uk

Before Starting Assembly

Unpack your model and examine the contents. If you have any missing or damaged items, do not do any assembly and contact 4-Max Models immediately.

Contents



1. Fuselage
2. Left and right wing
3. Carbon fibre wing tube
4. Propeller
5. Tailplane
6. Rudder
7. Landing gear legs
8. Wheels and spats
9. Landing gear foam covers
10. Elevator foam stopper
11. Foam Wing fairings
12. Accessories pack
13. Fuselage winglet

Locate a landing gear rod, a PU tire, a screw and a wheel housing.



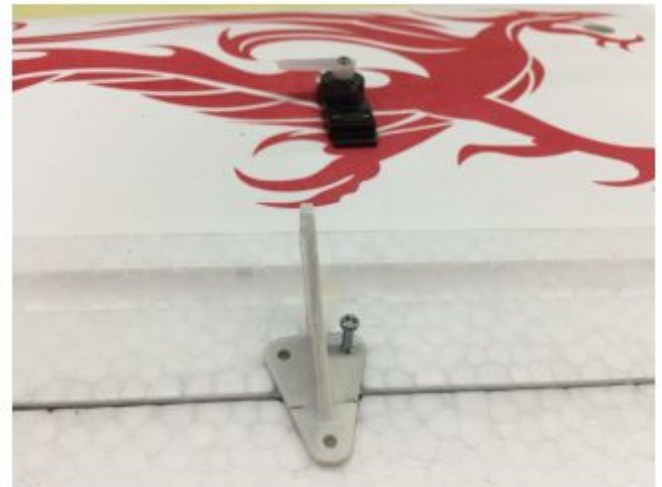
Use a M2.5*12mm screw to secure the landing gear rod, the tire and the wheel housing together.



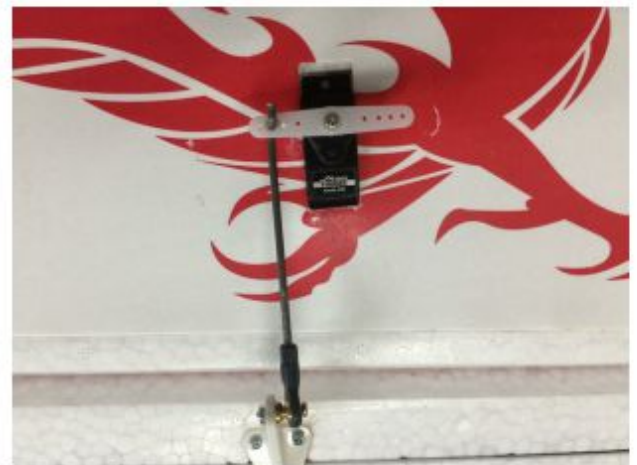
Install the landing gear on the fuselage with a M2.5*12 screw.



KIT version only: Secure the control horn on the aileron with three screws.



Insert Z-bend wire into the hole of control horn adjuster. Secure the adjuster to the control horn on the aileron with a M2*10 screw and M2 nut. Connect Z-bend wire to the servo on the aileron.



Use the Y-harness to connect the wing servo wires.



Use the 8*300mm tube to put the wing on the fuselage. And secure it with aM2*20mm screw.



KIT version only: Install a 9g servo into the pre-cut slot on the tail of fuselage.



Use some foam safe glue to secure the elevator into the pro-cut slots on the tail of fuselage



Locate the foam stopper for the elevator and secure it on the tail.



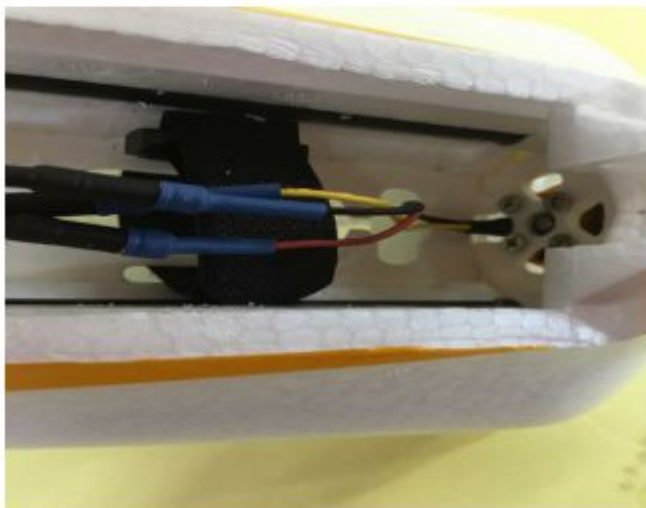
Secure the rudder into the slot on the fuselage with foam safe glue.



Secure the control horn on the elevator with three M2.5*16mm screws. Insert the Z-bend wire into the hole of the servo arm. On the control horn, secure the ball link with a M2*10 screw and M2 nut.



KIT version only: Locate an E450 size motor. Secure it into the fuselage with four screws



KIT version only: Connect your motor to your ESC.



Install the prop on the motor.



Use foam safe glue to secure the fuselage wing on the fuselage.

The CG should be 60mm (2.3-2.4in) from the landing edge of the wing.

As you have purchased this model we assume you're are a competent flyer and are familiar with this.

Centre of Gravity

Start with the CG at 60mm from the leading edge of the wing.

As you get more used to it or if you are a very experienced 3D pilot then the CG can be moved back as far as 80mm from the leading edge.

We highly recommend you move the CG back in small increments until you are happy with its flight performance.

Initial Suggested control throws

These are initial suggested movements.

You can increase or modify these as you get more comfortable flying this model

Measurements taken at the widest part of the moving surface

Elevator: +20mm, -20mm, 30% Exponential

Aileron: +20mm, -20mm, 30% Exponential

Rudder: +30mm, -30mm, 30% Exponential

Don't forget to range test your model as per the radio manufacturer's instructions.

We hope you have enjoyed assembling this model and may your take off's equal your landings.