F-86 Sabre

Instruction Manual

Item No.:F1301

Hand launch

Mini Fast EPO JET

- *Wingspan 27-9/16" (700mm)*
- *Length 27-9/16" (700mm)*
- *Flying Weight 470g*

Freewing Model
www.sz-freewing.com

Thank you for purchasing the F-86.This model is designed for the intermediate to advanced flyer. The model is receiver ready and includes everything that you need to assemble and fly your F-86,except for the radio transmitter and receiver.Please read the following instructions carefully,assembly is easy and should only take an hour or so.

Main Specifications

Wingspan: 27-1/2″ (700mm)
Fuselage length: 27-1/2″ (700mm)
Flight weight: 16-1/2 oz. (470g)
64mm EDF
4300KV out-runner brushless motor.
3-cell,11.1V,1600mAh 20C Li-Po battery genuine Deans Ultra Connector
30A ESC w/BEC and genuine Deans Ultra Connector
3pcs.9g Servo
No Landing gear

Required and Included

RTF
Contents Include:
Pre-painted Foam Airframe
Out runner brushless motor(4300KV)
3 Cell Li-poly Battery charger
4 Channel Computer Radio
64mm Ducted Fans
3pcs*9g Servo
3S 11.1V 1600mAh,20C Lipo battery
30A Brushless ESC

PNP
Contents Include:
Pre-painted Foam Airframe
Out runner brushless motor(4300KV)
30A Brushless ESC
3pcs*9g servo
64mm Ducted Fans
Required To Complete:
3S 11.1V 1600mAh,20C Li-poly battery
3 or 4 Channel Computer Radio
3 Cell Li-poly Battery charger

Airframe Only
Contents Include:
Pre-painted Foam Airframe
64mm Ducted Fans

Safety Statement

1.This is not a toy.It is for experienced modelers only.You are responsible for the safe operation of this model and any damage or harm it may cause.

2.Before flying the F-86 for the first time please read through the instructions carefully and make sure that your radio equipment is working properly and has been range tested prior to flight.

3.Young people under the age of 14 should only be permitted to operate this model under the instruction and supervision of an adult with modeling experience.

4.Please keep these instructions for future reference after completing model assembly. They contain information critical to the safe operation of this model.

5.If you have any further questions regarding the safe operation of your RC model, please contact your local hobby shop or flying club or Email to Freewing for professional help and advice.

Safety Precautions!

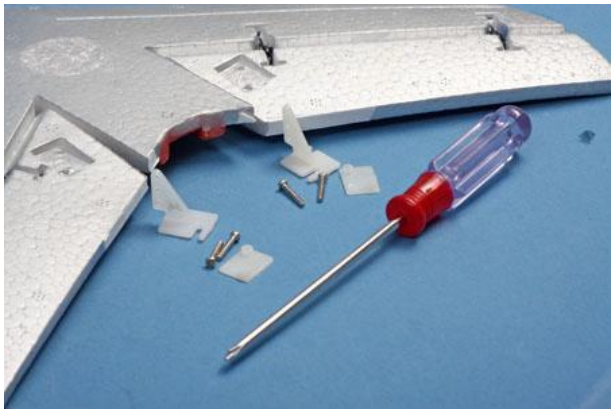
Please read this section and follow all recommendations!

1. Do not fly in strong wing or bad weather.
2. Never fly the model in crowded areas where there are lots of people, automobiles on the road or power lines overhead. Do not fly near full-scale airport.
3. Make sure that you have enough open area for flying as the model can travel at a high rate of speed and cover a lot of area quickly. Initial flights should be made in an area with a minimum size of a football field.
4. This model is not recommended for children under the age of 14.
5. When charging the LiPo batteries always charge them on a non-flammable surface and monitor the charge process. Improper charging of LiPo batteries is dangerous and can lead to a fire!
6. The F-86 is made from EPO foam and plastic. These materials are flammable and can be damaged by high heat. Never leave your F-86 near a heat source or in an automobile.
7. Do not attempt to catch your F-86 while flying.
8. Never leave your F-86 unattended when ready for flight.
9. When preparing for flight, always turn on your transmitter first and make sure that your throttle is in the off position prior to plugging in the flight batteries. Failure to follow this step may lead to unintended motor start and damage to the model.

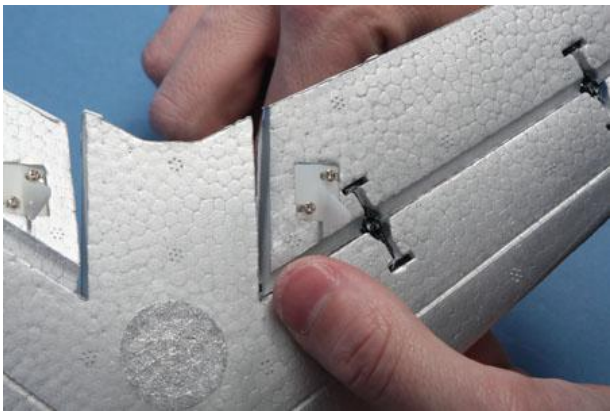
Illustration of Assembly

1. Open box and carefully unwrap all parts.

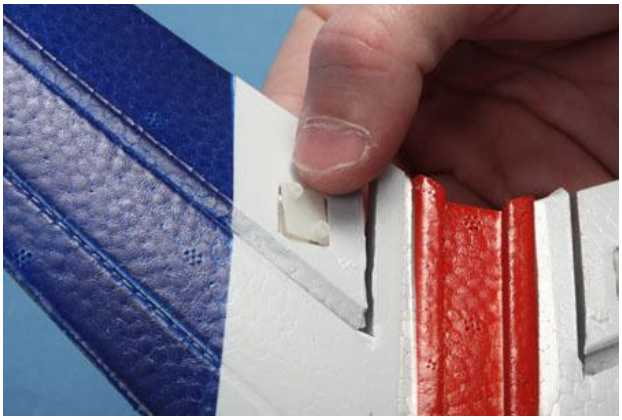
2. Locate horizontal tail parts.



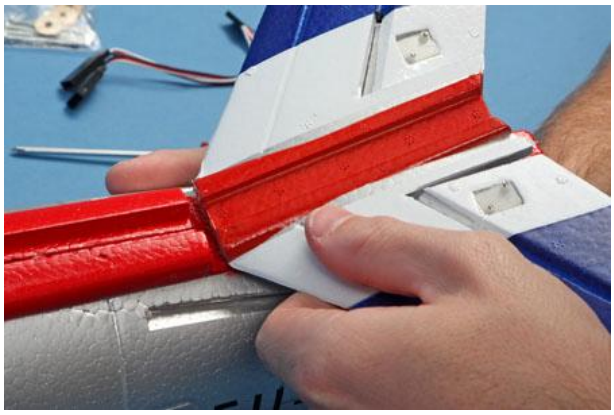
3. Screw control horns in place.



4. Apply glue to mating surfaces on bottom of tail and rear of fuselage. Use either foam glue or 5-minute epoxy.

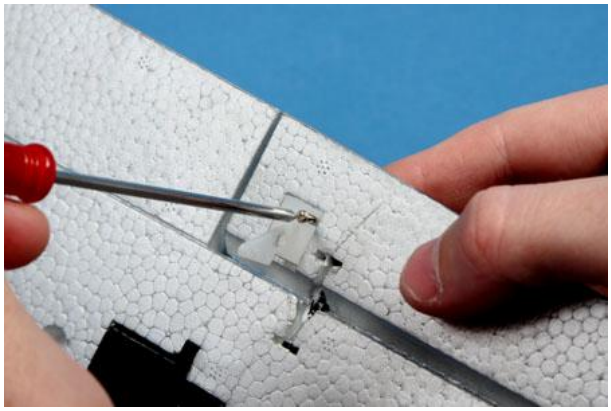


5. Press into position and check alignment. Apply glue to bottom of vertical fin.

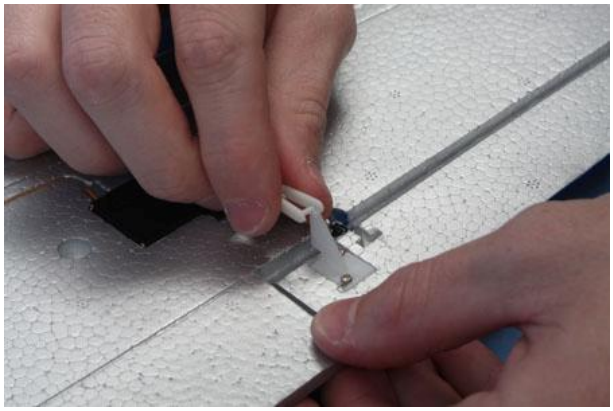


6. Apply glue to tail fin slot in rear of fuselage, insert fin in slot and check alignment.

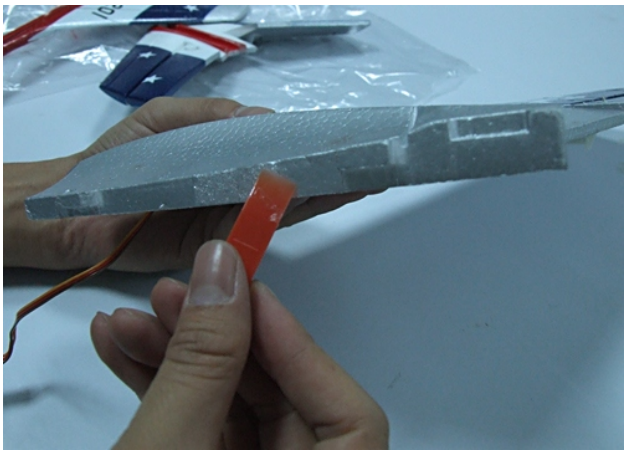
7. Locate control horns for ailerons. Screw in place with 2 screws each.

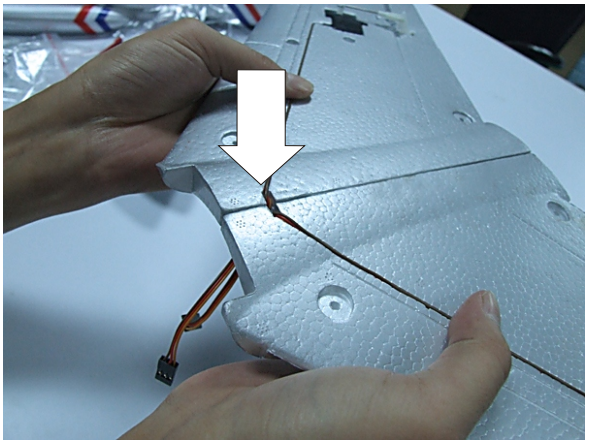


8. Install Z-bend end of aileron pushrod into outermost servo hole, attach clevis to control horn.

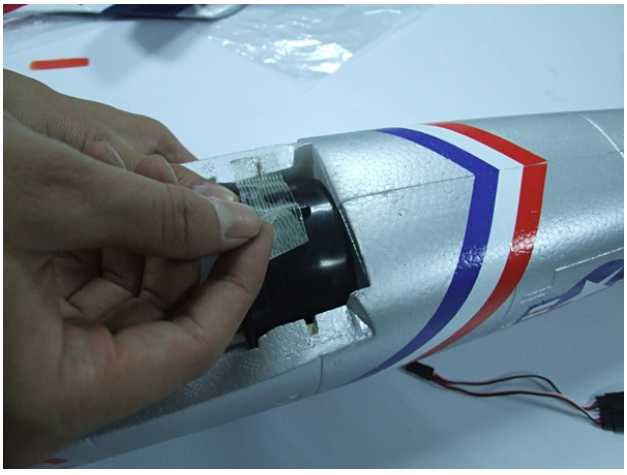


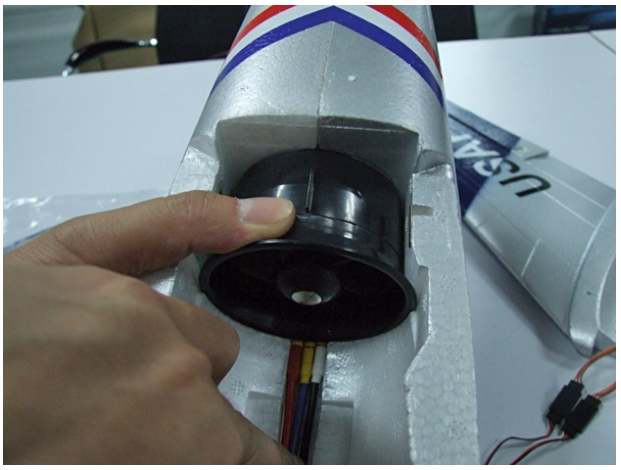
1.Apply the AB glue to root of main wing panel as the picture shown.Glue the left wing and right wing, let the servowire through the hole.



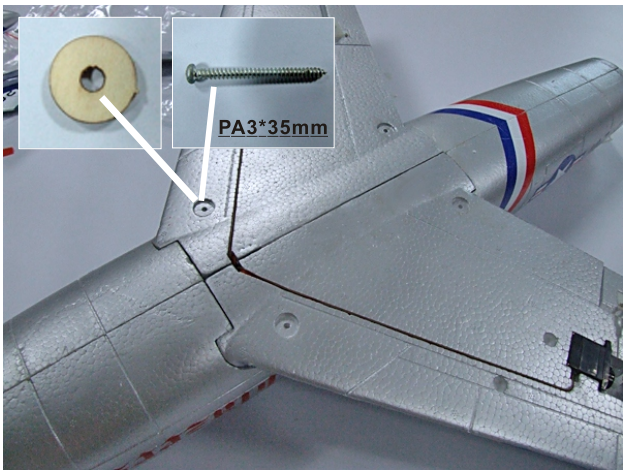


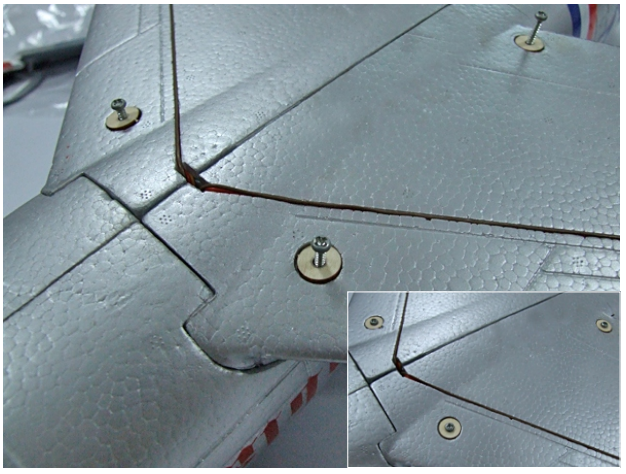
2.Tear open the adhesive paper from ducted fan, and adjust the EDF to the correct position as the picture shown.



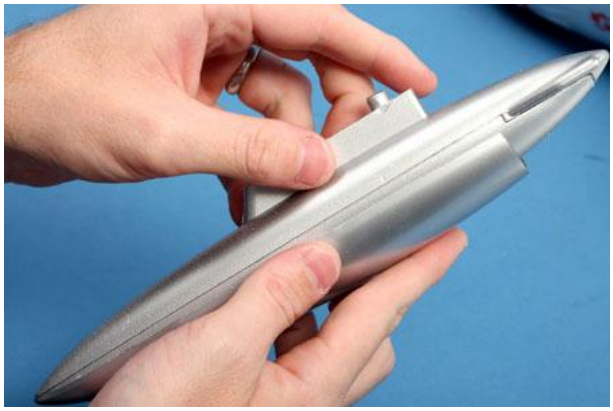


3.Slip the main wing into position on the fuselage,and install screws.





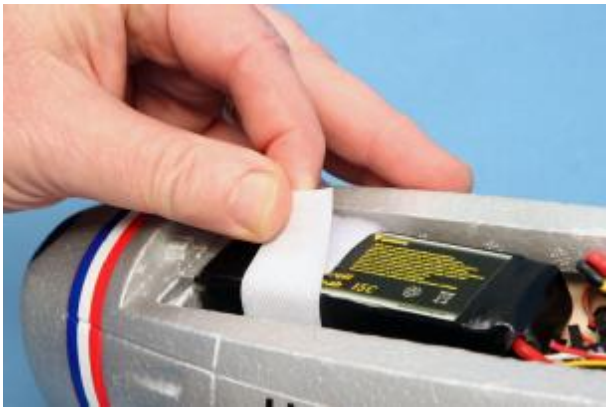
12. Locate the plastic drop tank reinforcement. Apply glue and install on bottom of drop tanks.



13. Apply glue to drop tank pylon and install on bottom of each wing panel.

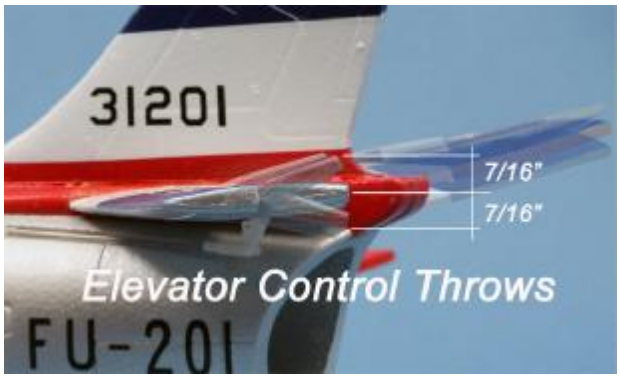
14. Attach the clevis to elevator control horns on each half of horizontal tail. Install receiver in rear of cockpit area and plug aileron, elevator and throttle into appropriate channels. A Y-connector is supplied that can be used to connect both ailerons to one channel. If your receiver allows the use of separate aileron channels, you will not need the Y-connector.

15. Place battery in fuselage and install Velcro through the slots in battery tray. Strap battery in place as shown. Battery and ESC have pre-installed genuine Deans Ultra plugs for excellent connectivity and reliable performance.

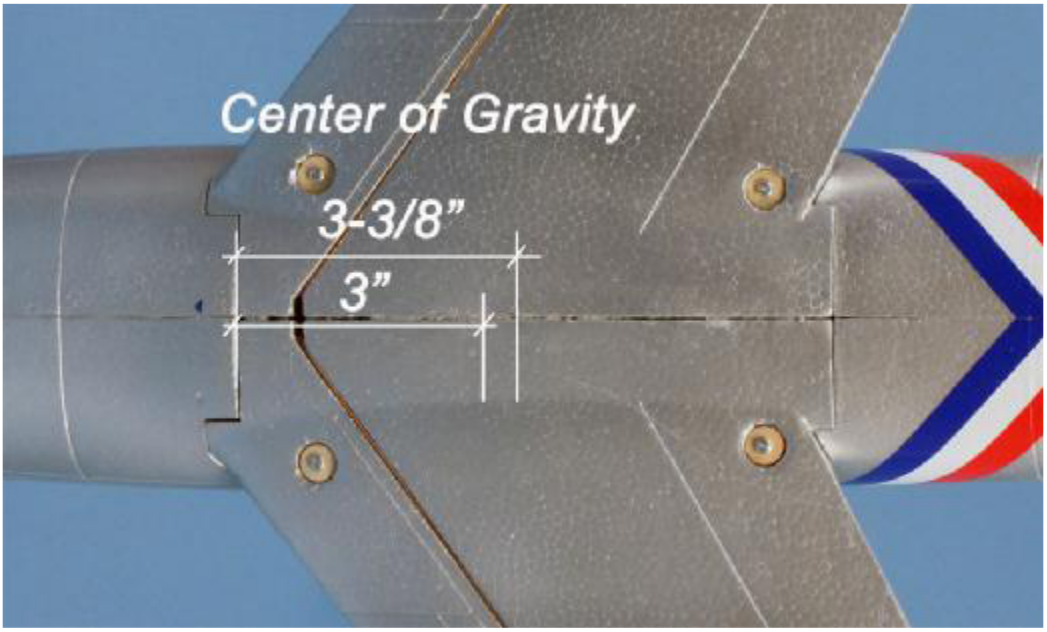


16. Canopy has pre-installed magnets at the front. Insert tab at rear of canopy and snap front into position. A sheet of water slide star decals is supplied; follow the photo on the box for star placement. Soak decal in water for about 15 seconds and let stand for 60 seconds then slide off backing paper into position on airplane. Allow decals to dry before flight.

17. Aileron control throws are 7/16” up and 5/16” down. If using the Y-connector you will not be able to adjust aileron differential. Set the up throw to be about 7/16” -1/2”. Elevator control throws are 7/16” in both directions.



18. The Center of Gravity range for the F-86 is from about 3” to 3-3/8” back from the front of the wing panels in the center. Adjust the position of the battery to achieve correct balance. Never attempt to fly a model that is not correctly balanced.



Preparation before flight

19. Set throttle to the lowest position And set transmitter trims to neutral.

20. Turn on the transmitter

21. Connect the flight battery to the ESC. After ESC initializes check that the correct channel is controlling all control surfaces and that they are traveling in the correct direction when commanded. Example: right stick moved to the right and the aileron on the right wing moves upward while the aileron on the left wing moves downward.

22. Adjust each control surface to its neutral position by mechanically adjusting each clevis.

Recommended control throws for F-86

Elevator- 7/16” Up and Down
Aileron- 7/16” Up 5/16” Down

After initial flights adjust the control throws to best suit your flying style and ability.

Check before flight

1. Make sure that your transmitter is fully charged. Conduct a range test of your radio system per the manufacturer’s specs.
2. Check all flying surfaces for correct direction of movement, correct amount of movement and for correct centering, adjust as required.
3. Fully charge your flight batteries prior to flying.
4. Hand launch into the wind and land into the wind.

Flight Adjustment

1. On initial flight climb to about 75-100 feet and see if any trim is required. If the model rolls to the right, apply some left aileron trim to level the wings. If the model dives, apply some up elevator trim, ect.
2. Landing should be made into the wind, reduce the throttle to just above idle and keep the nose level or a little high allowing the airplane to sink toward the ground. Apply a little throttle as the model reaches an altitude of a foot or so, this will slow the descent and aid in the flare to a smooth landing.

Have Fun
We hope that you have many pleasant flights with your F-86

F-86 Sabre

Instruction Manual

FREEWING

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