

EDF

# F16

Aerobatic Model Planes

## INSTRUCTION MANUAL



### WARNING:

An EDF model airplane is not a toy and is not suitable for free school flights.  
Read the instructions carefully before any use. If you see a problem, it is necessary to let an experienced airplane pilot assist you.  
The manufacturer reserve the right to modify the specification or printing errors without prior notice.

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## WARNING:

F16 Electric R/C model is not a toy and is not suitable for the child under 14 years.

1. Do not fly near: Houses or buildings; Children's play areas, Road traffic, railways airports, overhead power lines and pylons. Do not fly over people.
2. The ideal location for flying is a wide-open space in four directions with no people. (If using a model airfield, be sure to contact the airfield's administrator for permission.)
3. The battery should not be overcharged or put on the flammable material or near flammable material when it is being charged.
4. Always check that other pilots are not using the same frequency (band) in the same area before flight and make sure there you are flying in a safe area.
5. Do not fly in the strong winds.
6. Do not try to catch the plane by hand when it is flying.
7. The children who are younger than 14 years old should be assisted by an experienced adult when the plane is being flown.
8. This model aircraft is designed to be powered by an electric motor. Flying this model aggressively may lead to serious accidents or injuries.
9. Do not touch the propeller when the motor is running, it could lead to serious injuries.

Note: The manufacturer will not take any responsibility for damage or accident caused by the improper use of this model.



Thank you for purchasing the F16 Electric R/C airplane, F16 is an EDF plane which is ideal for the intermediate or advance flyer.

The F16 will perform most maneuvers you will want to try, and the nice thing about it is if you happen to meet the ground sooner than your had planned, there is a good chance the plane will survive for another flight, although you may want a tube of goop or epoxy close by just to be sure you can fix minor tears if they occur.

In order to fly the F16, please make sure you read through the instructions carefully before attempting to operate the model for the first time.

You alone are responsible for the safe operation of your radio-controlled model.

Young people should only be permitted to operate this model under the instruction and supervision of an adult who aware of hazards involved in this activity.

Please keep these operating instructions in a safe place. If you ever dispose of the model, be sure to pass the instructions on to the new owner.

If you have any questions regarding the safe operation of your RC model aircraft, please contact your local model shop for professional advice.

Radio-controlled models are very demanding and potentially dangerous machines, and call for a high level of technical knowledge and skill from the operator, together with a responsible attitude.

Please always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

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#### Features:

- Powerful EDF Plane;
- Perfect aerobatic maneuvers, such as rolls, loops, and the "Cobra maneuvers";
- Stable invert flight;
- Excellent hedgehopping performance;
- Excellent stability of nosing up and down;
- Controllable nose landing gear, easy to fly;
- Die-cast design easy to replace the spare parts;

#### Specification (Brushless version):

- Wingspan approx: 788mm
- Length: 1080mm
- Flying weight: 1100g
- Prop Plane, ESC(45A), Powerful 2632 Motor(out runner)
- Radio System: 2.4Ghz Radio (4Ch Tx and 7Ch Rx)
- 7pcs 9 gram servos.
- Battery: 2200mAh, 14.8V



Nose cone



Canopy



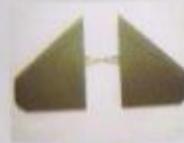
Vertical wing



Main wing



Fuselage



Horizontal wing



Missiles



Ventral



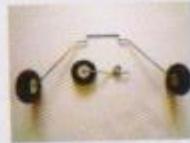
Servo



Spare parts



Vector



Landing gear set



Esc



Motor



Battery



Tx&Rx



Ducted fan

# F16

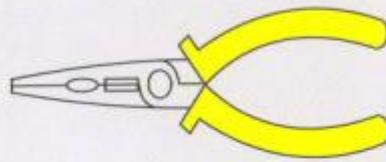
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## Tools and Items

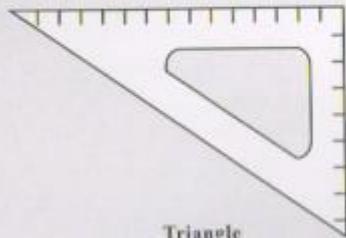
To assemble this airplane you need to prepare some tools.



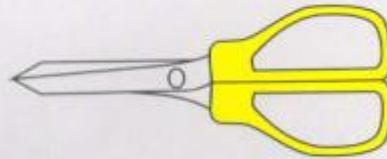
Cutter Knife



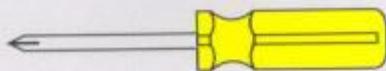
Pliers



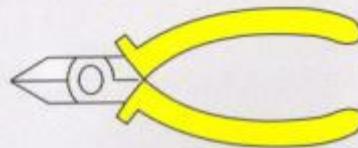
Triangle



Scissors



Screwdriver



Nippers

### 1,Assembly of landing gear:



Insert the front landing gear into the connectors and then screw them.

Insert the behind landing gear into permanent seat,then equip the over lay of lower fuselage.

### 2,Assembly of main wing and even tail:



Glue the main wing and fuselage.

Connect the servos line and fix the horns.



Install the steel wire on servo arm,close the chuck after leveling control surface.

Install the horizontal wing with it's permanent seat,then install it's arm.

Install the steel wire on arm, close the chuck after leveling control surface.

### 3,Assembly of nose cone, missiles and vertical wing:



Glue the nose cone and fuselage.

Glue the ventral and fuselage.



Glue the missiles of the end of wing and the main wing.

Tank and missiles of wing use magnet designing.

Glue the vertical wing and the fuselage.



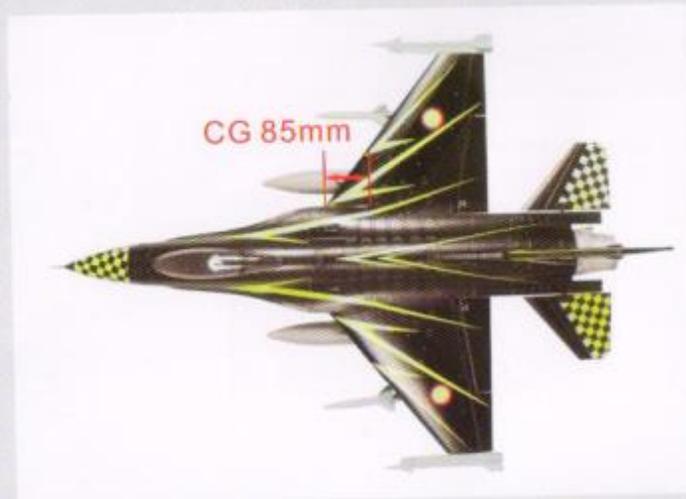
Get rubber tube through the hole in vertical tail. Then please fixed rubber tube well with glue in hole.

Put steel wire into rubber tube,and assemble it with rudder plastic part.Screw it well into vertical tail.

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## Center of gravity



## Charge the Li-Po battery pack

Connect the charger to main power supply. The battery will be fully charged in 2 hours when the indicator on the charger turns from red to green, and then disconnect immediately. Do not leave battery unattended at any time.

Note: the Li-Po battery will be explosive and fired if overcharged or improperly-disposed. Keep the battery and charger out of children's reach

Only charge the battery with the supplied charger.

The user should take the responsibility for the use of other chargers.

Do not charge the battery if there is any noticeable swelling or the battery temperature is over 70°C.

Do not damage, dismantle the battery.

Do not short-circuit the battery.

Do not put the battery into water.

Improper use of the battery will cause fire or explosion!

Always put battery in a metal container when it is charging or not in use.

It is recommended to use the included balance charger to charge your battery.

## Pre-Flight Check

1. Check for any bends or damaged parts on main wing, fuselage or tail wing.
2. Check the propeller, adapter and all screws are securely fastened.
3. Always check there are no other pilots using the same frequency (band) in the same area!
4. Securely fasten the main wing.
5. Make sure the power switch on the plane is OFF before connecting the battery. Make sure you stay clear of the propeller.
6. Switch the transmitter on, then switch the receiver on.
7. In case motor starts rotating accidentally, have an assistant to hold the rear parts of the plane securely.
8. Check plane to respond properly to control signals.
9. Screw the antenna all the way into the transmitter and test the range of the radio signal. With the transmitter and model switched on step back around 20m and check for the interference.
10. If there is no interference, the plane is now ready to fly.

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### Flight

#### Take-off:

1. Face into the wind, hold the plane horizontally and launch with a pushing motion.
2. Extend transmitter antenna all the way and check plane responds properly to transmitter signal.
3. After launching, Climb 10-20° at full throttle. If plane doesn't climb accordingly, adjust elevator control. After reaching an altitude of about 40m, begin making circular circuits with the plane. You can also take off from the ground, gradually move the throttle stick to full power, keep the plane straight by adding rudder stick when necessary.

Once plane is at full power into wind and has sufficient air speed gradually add a little elevator until plane slowly lifts off the ground. Be careful not to over control the plane, just keep steady and straight and climb to a safe height. At this point you should start to make circular climbs and then into level flight.

#### Flight:

1. The plane should fly level at around 50% of full throttle.
2. The flight time will be prolonged if you allow the plane to sometimes glide at a safe altitude.

#### Landing:

When the battery runs low, the auto-cut relay may stop the propeller from rotating or you should place the throttle to minimum. When the propeller stops rotating, decide your landing route based on wind direction and landing area. Turn wide into wind. From altitude of about 1m use the elevator to land the plane horizontally, these ensure a safe landing.

### Tips

1. Train yourself in the FMS (Flight Model Simulator) before you fly our F16 Electric R/C airplane. It will help you with coordination for when fly your model.
2. Fly the F16 at low speed on the ground to learn the direction control of the plane. Please remember when the plane fly's towards to you the control direction is reversed.
3. Flying with the assistance of an experienced flyer will help your first-time flight.
4. Do not fly in the strong wind.
5. Always face the wind when taking off and landing.
6. Do not fly the plane across your head, this can lead to disorientation, always fly the plane in front of the flight line and never behind.
7. Please consider purchasing a spare battery pack for longer flights.
8. Do not fly this plane with damaged or broken parts this may result in accidents or injury. Please contact our local dealer for replacement spare parts.

## Problem Solving

Phenomenon	Typical error	Problem solving
Motor do not work	The battery is not full charged	Charge the battery
	The battery of the transmitter is in low power.	Replace the battery in the transmitter.
	There is some broken circuit in the plane	Contact your local dealer
Can not fly in a line	The rudder is not in the center of the fuselage	Adjust the trim on the transmitter.
	The main is not installed in the center.	Reassembly the main wing.
	The nose landing gear is twisted.	Verify the nose landing gear.
Can not climb	The battery is not fully charged.	Charge the battery.
	Elevator is tilt downward.	Adjust the trim on the transmitter.
Short control distance	The battery of the transmitter is in low power.	Replace the battery of transmitter.
	The antenna is not fully extended.	Extend the antenna fully.

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