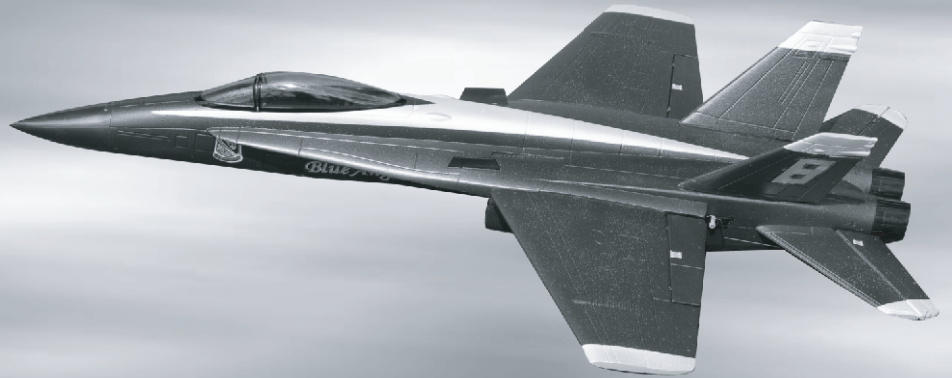


**TOP**<sup>TM</sup>  
R/C HOBBY

# **F/A-18C**

*DUCTED FAN R/C AIRPLANE*

**Operation manual**



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## Statement:

1. Please read this manual carefully and follow the instruction of the manual before you use this products;
2. Our airplane is not a toy, which is only suitable for the experienced manipulator or under the guidance of the experienced pilot.
3. Not recommended for the children under 14 years old.
4. Please adjust this plane according to the instruction and make sure that the finger and other parts of your body be out of the rotating parts of the plane, or it may cause damage to the plane or injury to your body.
5. Do not fly in the thunderstorm, strong wind or bad weather.
6. Never fly the plane where there are power lines overhead, automobiles, near aerodrome , railway or highway.
7. Never fly our plane where are crowds of people .Give yourself plenty of room flying, as the plane can fly at a high speed. Remember that you are responsible for others safety.
8. Do not attempt to catch the plane when you are flying it.
9. The user should bear full responsibility of proper operation and usage with regards to this model. We, Top RC together with any distributor of us will not be responsible for any liability or loss due to improper operation.

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## Brief introduction

Thank you for purchasing the "F-18" remote control model airplanes from Top RC, and we hope this plane will bring endless joy to you after you choose it.

- ★With the EPS foam materials, it is very light and strong.
- ★Used the perfect structure design, easy to assemble and maintain, and crash resistance.
- ★Used the perfect power system, it has the strong power and can fly long time.
- ★It can finish the inverted flight, inside loops, outside loops, axial rolls ,and other aerobatic performance.
- ★High scale, and beautiful appearance.

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## Main specifications

★Wingspan	686mm
★Length	1032mm
★Weight	680g
★Thrust	≥650g
★Flying time	≥5min
★Ducted Fan	EDF64mm

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## Main configuration

★Radio system	4ch 2.4Gzh E-401 radio
★Motor	P2627-4100KV
★Battery	1600mAh,11.1V, 20C
★ESC	30A
★Servo	9gX5

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## Product constitution

### RTF version

Fuselage, Main Wing, Horizontal Wing, Vertical Wing, Nose Cowl, Main Landing Gear, Front Landing Gear, Battery, Radio, Charger, accessory Bag



### ARF version

Kits without radio

### PNP version

Kits without radio, charger and battery

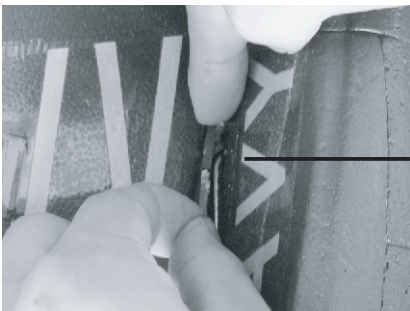
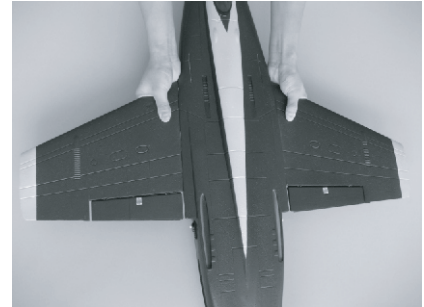
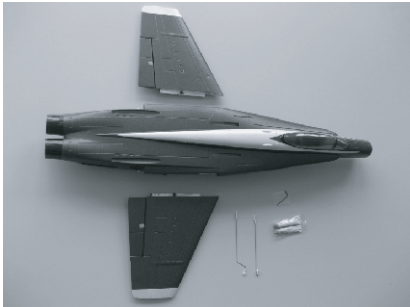
### KIT version

Without any electronic parts

## Assemble processes

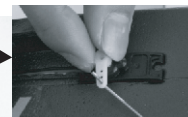
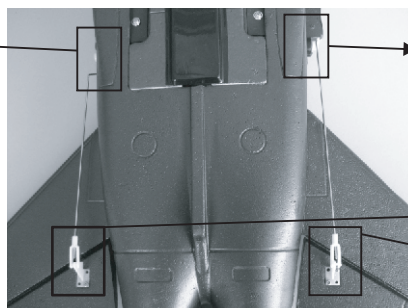
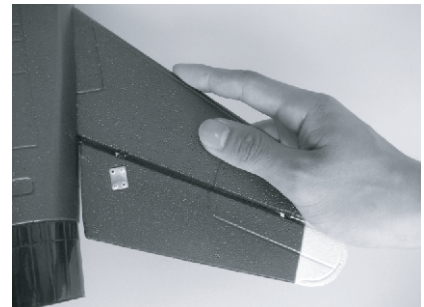
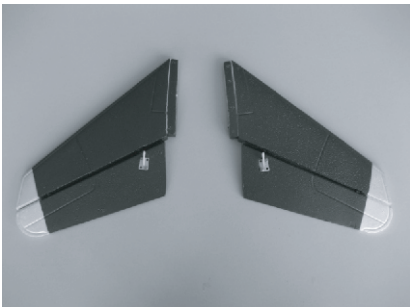
### 1. Install the right and left main wings

Take the fuselage and main wings and accessory bag from the box. Use some AB glue and mix it according to 1:1, stick the right and left wings to the fuselage correctly. Please make sure that the right wings and left wings are in the same horizontal position and connected firmly. Connect the left and right aileron servo wire, please put the tail of the wire into the slot.



### 2. Install the left and right horizontal wings

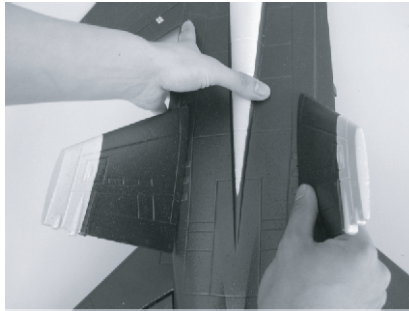
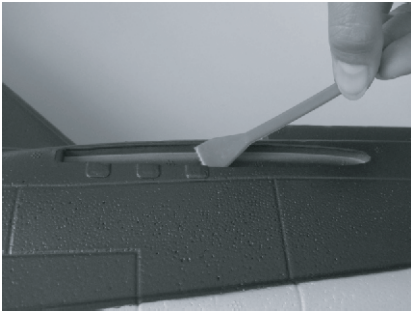
Take the right and left horizontal wings from the box and add some AB glue (mix the AB glue according to 1:1), and connect the right and left horizontal wings to the fuselage. Please make sure that the arms turn to upper direction and the two horizontal wings are in the same line, then connect the left and right elevator controlling steel wire.



## Assemble processes

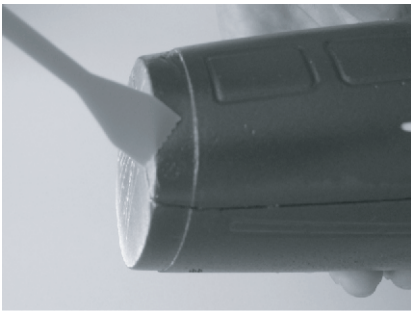
### 3. Install the left and right vertical wings

Take of the left and right vertical wings from the box and add some AB glue( mix it according to 1:1), then connect the vertical wings to the fuselage as per the right direction.



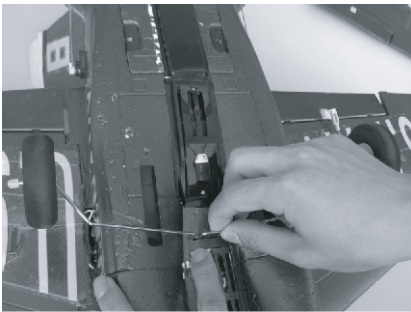
### 4. Install the nose cone

Take of the nose cone and add some AB glue(mix it according to 1:1) to stick to the right place on the fuselage.



### 5. Install the landing gear

Take of the main landing gear from box and insert it into the slot of the fuselage. Take of the front landing gear and insert the steel wire of the front landing gear into the link stopper, then lock the screw by the spanner.



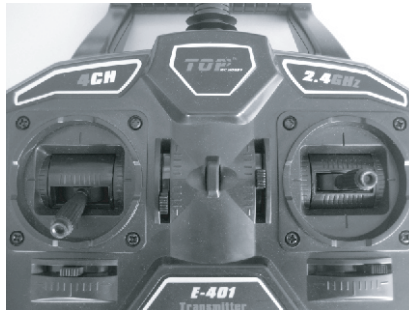
### 6. Complete the assembly

View from the front, the left and right position, the main wings should be in vertical position to the fuselage.

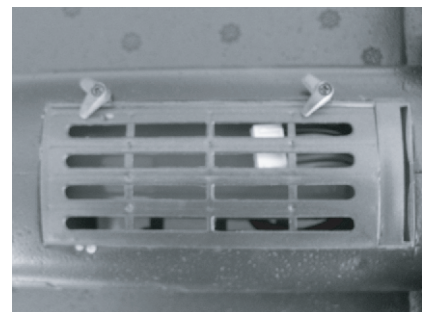
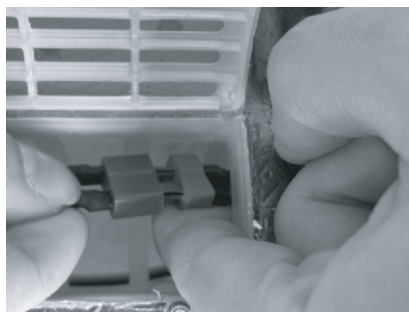
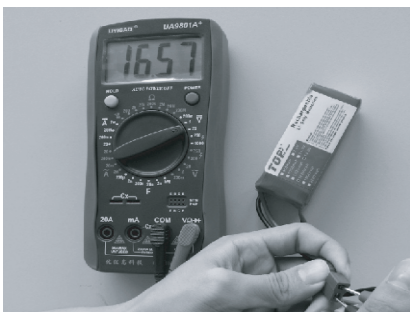


## Adjustment steps

1. Turn on the transmitter, and please make sure that there is enough power for the transmitter. Push the joystick for throttle and throttle trim switch to the lowest position, and other trim switch should be in the neutral position.



2. Please make sure that the battery is full power, and connect to the ESC plug, then install the battery into the battery case.



3. Please catch the front part of the fuselage and push the throttle slowly to make sure that the motor can work normally.



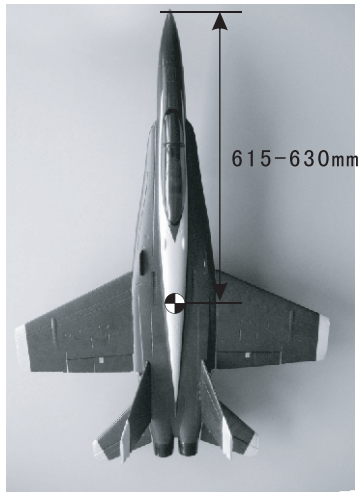
4. Please check the control surface and front wheel can work or not. Do not make it reverse, and make sure that the control surface & free wheel and the joystick are in the same direction.



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## Adjustment steps

5. Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.



6. Finished the adjustment for F-18.

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## Safety precautions

1. If you have the simulator, we suggest that you can practise your skill by the simulator before you fly this model, which will bring some help for you.
2. Please climb the plane above the 50 meters with half throttle to fly it when you fly it for your first time, then you will be familiar with the performance of this plane.
3. You should learn how to control this model blandly, it will reduce the possibility of crash and prolong the usage life of the plane.
4. The turn radius should not be too little, or it will stall and it will increase the possibility of crash.
5. When taking off or landing the plane, you should against the wind.
6. Do not fly the model over your head or behind you, you should fly the model in front of you.

## Charging method and cautions

### Li-Po battery(balance changer) specifications

#### Specifications:

Input voltage: DC 10V~15V

Output voltage: 4SLi-Po battery

Charging current: 1.2A

#### Indicator state:

Green: Charge complete & no battery

Red: Charging

The batteries are inspected separately. When the voltage reaches 4.20V, the charging process stops.



### Operating

1. Then plug cigarette into its socket in car (Adapter should be connected if charge at home: connect the adapter to home power socket, then plug the adapter' DC end to charger). The LED will turn green indicating it is ready for charging.
2. Connect the battery to charger per its interface mark. The LED becomes red, which means charging is on the way.
3. When LED flashing, the charger will enter the stage of drip current charging. The LED turns green when fully charged, and the battery will be used at any time.



### Notice

1. While charging is in process, please do not make it near flammable materials.
2. Expect Li poly battery, this charger is not allowed for other kinds of battery.
3. While charging, please keep it out of the reach of Children.
4. When this charger is in use, please do not go away and leave it unwatched, if any abnormality occurs (such as the power indicator is off, the temperature of the battery rise rapidly, etc.) stop charging immediately.
5. Please do not use power with output voltage higher than 15V.
6. Please do not disassemble the charger or its accessories.
7. When the battery is not cool down, please do not urge to charge it.

### Notice

1. Be fully charged under no more than 1 A voltage by using the specified charger.
2. Be discharged under 10C voltage but avoiding discharge time too long to harm the battery.
3. Repeat the first and second step one or two times.
4. When the Li-poly battery was stored more than 3 months, it needs to be recharged to maintain its voltage, and ensure its life time.

### Safety Instruction of Li-Po/Ni-MH battery

1. Do not disassemble or reconstruct the battery.
2. Do not short-circuit the battery.
3. Do not use or leave the battery nearby the fire, stove or heated place (more than 80°C).
4. Do not immerse the battery in water or sea water, do not get it wet.
5. Do not charge the battery under the blazing sunlight.



6. Do not drive a nail into the battery, strike it by hammer or tread it.
7. Do not impact or toss the battery.
8. Do not use the battery with conspicuous damage or deformation.
9. Do not charge a warm battery. Allow it to cool completely before attempting to charge.
10. Do not reverse charge or over discharge the battery.
11. Do not connect the battery to the ordinary charger socket or car cigarette jack.
12. Do not use the battery for unspecified equipment.
13. Do not touch the leaking battery directly, please wash your skin or clothes with water if they are bedewed by liquid leaking from the battery.
14. Do not mix the Li-Poly battery with other un-chargeable battery in using.
15. Do not continue charging the battery over the prescribed time.
16. Do not put the battery into the microwave oven or high-pressure container.
17. Do not use the abnormal battery.
18. Do not use or keep the battery under the sunlight.
19. Do not use the battery nearby the place where generates static electricity (over 64V).
20. Do not charge the battery when the environmental temperature is under 0°C or over 45°C.
21. If you find the battery leaking, smelling or abnormal, stop using it and return it to the seller.
22. When the battery is charging, please do not make it near the flammable materials!
23. Keep the battery away from the children.
24. Use the specified charger and observe charging requirement (under 1A).
25. When using by minors, parents should show them to the correct instruction.

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#### Notification for ESC

1. The function of this ESC was in the best condition after factory setting; please do not change it by yourself.
2. Before connecting the battery, please make sure the throttle and trim were in the lowest position. If the throttle and trim were not in the lowest position by mistake after connecting the battery, you can cut off the battery; move the throttle and push to the lowest position, then connect the battery.
3. The ESC of the airplane was in a good cooling position after factory assembly; please do not move its position.
4. The ESC should be connected to the brushless motor correctly, otherwise the motor will be reversed turning, and the model airplane can not fly correctly.

## Spare parts



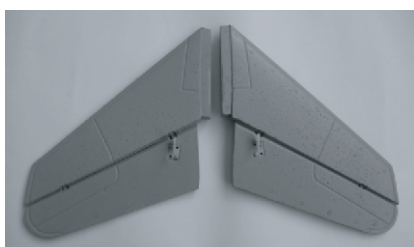
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Fuselage( white)



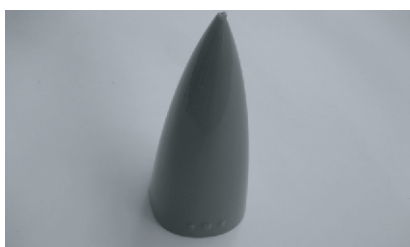
No:top00802  
Main wings( white)



No:top00803  
Vertical wings( white)



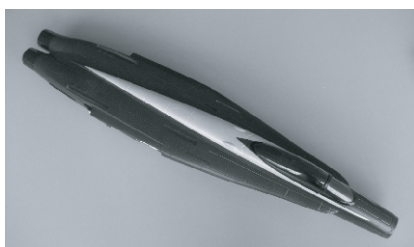
No: top00804  
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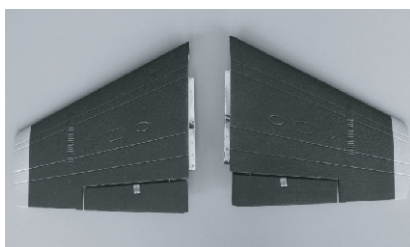
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Nose cowl(white)



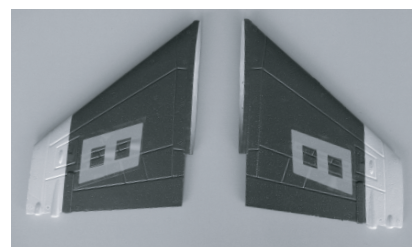
No:top00806  
Landing gear



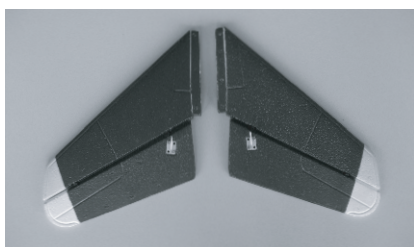
No:top00807  
Fuselage ( blue)



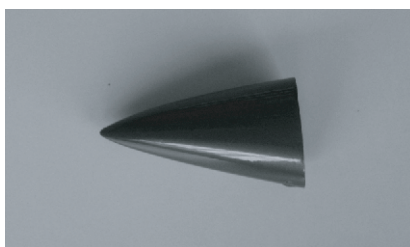
No:top00808  
Main wings( blue)



No:top00809  
Vertical wings( Blue)



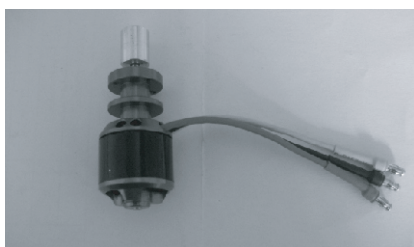
No: top00810  
Horizontal wings(blue)



No:top00811  
Nose cowl( blue)



No:top00812  
Ducted Fan with motor



No: top401  
Motor(P2627-4100KV)



No: top203  
30A Brushless ESC



No: top506  
11.1V,1600mah lipo battery

# **F/A-18C**

*DUCTED FAN R/C AIRPLANE*

**TOP**<sup>TM</sup>  
R/C HOBBY

***Shenzhen Top RC Hobby Co., Ltd***

***www.toprchobby.com***

***Tel: 0086-(0)755-27559991***

***Fax: 0086-(0)755-27559990***



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