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F4F Wild Cat

Instruction Manual



WARNING

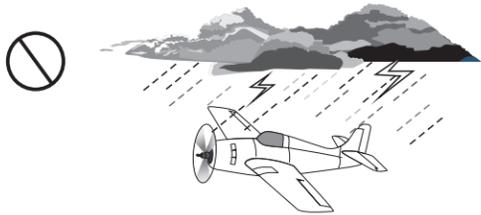
A R/C model airplane is not a toy and is not suitable for flyer under 14 years old. Read the instructions carefully before any use. If you are a beginner, it is necessary to let an experienced airplane pilot assist you.

Meaning of the icons.

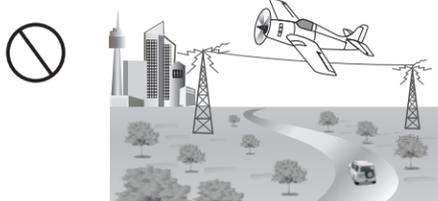
-  ● **WARNING!** : this symbol indicates where caution is essential to avoid injury to yourself or others .
-  ● **PROHIBITED:** this symbol points out actions that you should not do to avoid possible damage or accidents.

Safety instructions

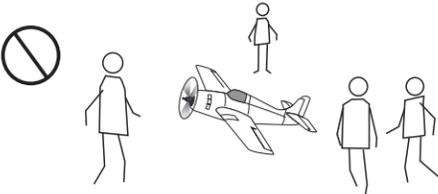
1. Do not fly in thunderstorm, strong winds or bad weather.



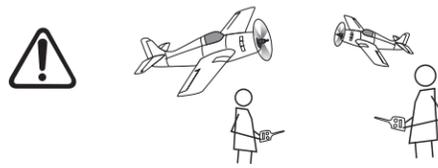
2 .Never fly the Model where are crowds of power lines overhead , automobiles or near highways , subways.



3 .Never fly the Model where are crowds of people. Give yourself plenty of room flying , as the plane can travel at a high rate of speed . Remember you are responsible for the safety of others.



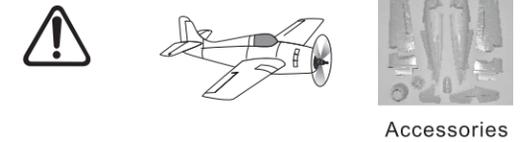
4. Do not fly in where the same frequency model plane is flying nearby.



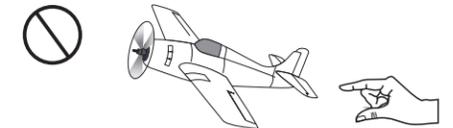
5 . Make sure that the model as well as the control system is in the good state before the plane takes off.



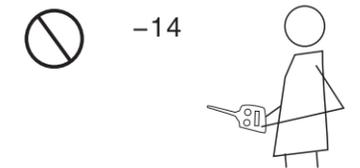
6. Only use genuine accessories as replacements for damaged parts.



7. Do not attempt to catch the model while flying.



8. Not recommended for children under 14 years old, Children under 14 years old should only operate this model under the guidance of a responsible adult.



9. Do not store this model in a high-temperature or humidity area or in direct sunlight.



Thank you for purchasing F4F.

The F4F is an electric propeller which is ideal for the intermediate or advanced Flyer.

In order to fly the F4F, please make sure you read through the instructions carefully before attempting to operate the model for the first time.

If you have any questions in regarding to the safe operation, or possible precautions please call your local hobby shop for professional advice.

Radio-controlled models are very demanding and potentially dangerous machines. They call for a high level of technical knowledge and skill from the operator. Please always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

Note: SHENZHEN LANXIANG MODEL AIRCRAFT CO.,LTD will not take any responsibility for damage or accident caused by the improper use of this model.

Transmitter (remote control) Instructions

- A** Vector switch
- B** Mix switch
- C** Retract switch
- D** Flap switch
- E** Dual rates servo switch
- F** Mode 2: Throttle & Rudder stick (throttle: up/down, rudder: left/right)
- G** Mode 2: Aileron & Elevator stick (aileron: left/right, elevator: up/down)



"A" as labeled on transmitter (Vector switch) for turning Vector On/Off.
 "B" as labeled on transmitter (Mix switch) for mixing/unmixing channels 1 and 2.

To mix channels 1 and 2, sync channel 8 with 4 and sync channel 7 with 2: switch "A" on, "C" to mixed mode, and then turn on transmitter. After transmitter is turned on, switching "A" will toggle Vector On/Off.

Receiver Diagram



- CH8: Vector 1(left / right)
- CH7: Vector2(up / down)
- CH6: Flap
- CH5: Retracts
- CH4: Rudder
- CH3: Throttle
- CH2: Elevator
- CH1: Aileron

Binding instructions

- 1.Insert eight AA batteries into the transmitter (remote control).
- 2.Press and hold the "Bind Button" on the receiver.
- 3.Connect the battery to the ESC of the plane (The receiver should already been connected to the aircraft.)
- 4.Release "Bind Button" and small LED around the button will flash.
- 5.Turn on transmitter (remote control). LED on transmitter will briefly flash.

When the transmitter LED and the receiver LED goes solid, then the bind process is complete; if not, repeat the steps above.

The radio system has already been bound by the manufacturer and the connection should have been already established. You do not need to bind the radio system (syncing the transmitter to the receiver) unless it is necessary.

How to properly operate this radio system

- 1.Set throttle stick and throttle trim to the lowest position.
- 2.Turn on transmitter (remote control). The middle LED on the transmitter will flash.
- 3.Power up the receiver by either connecting the battery to the ESC or connected an external power pack to the receiver.

Power indicator

There are three LEDs on the transmitter for identifying the transmitter's power level.

Normal to high voltage: green (middle LED) will light up

Low voltage: all three LEDs will light up

4 Cells Li-Ion/Li-Poly Balance Charger (Voltage Display Combo)

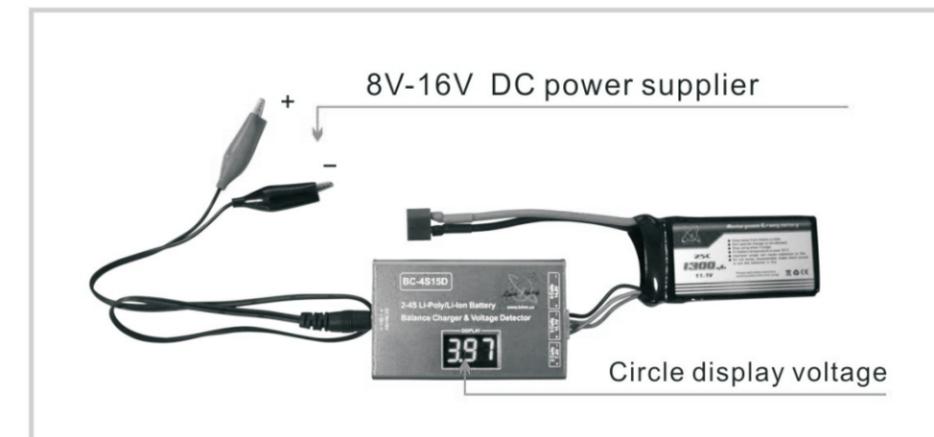
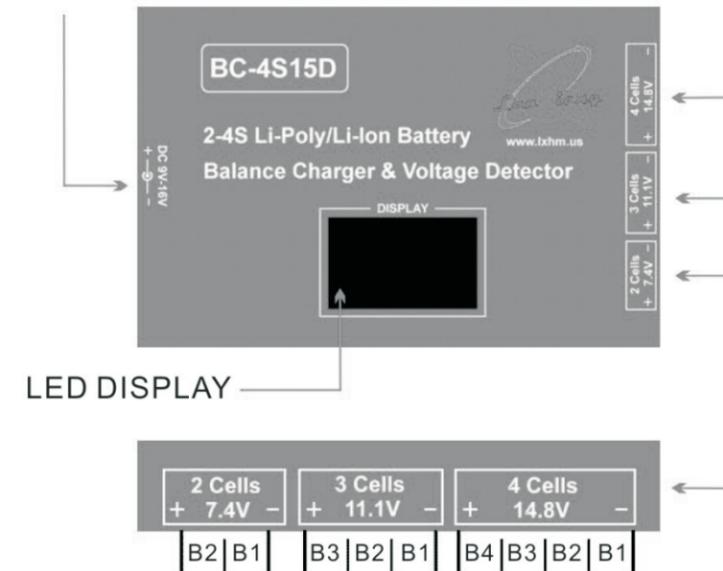
Specifications

Operating Voltage Range:9V-16V DC
 Operating Temperature:-20 -45°C
 Cells Type Supported:2-4 cells Li- Ion/Li-Poly
 Input Power Request : recommend $\geq 30W$
 Max Charge Power : 25W
 Charge Current : 1500mA

Charge Accuracy : $\pm 10mV$
 Balance Current:1000mA
 Display Accuracy : $\pm 10mV$
 Weight : 76g
 Dimensions : 81*50*20mm (L*W*H)

Device Views

INPUT: DC 9-16V

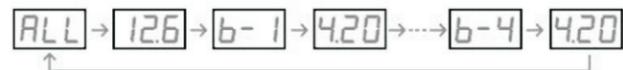


WARNING

- ⚠ Make sure your adaptor has enough power for charging ($\geq 30W$ is recommend)
- ⚠ The range of input voltage is 9V-16V DC
- ⚠ This charger is designed for Li-ion/Li-poly battery only
- ⚠ Do not connect more than two balance lead socket at any time.

Start and stop charging

After power on, the charger will emit a beep and display; `---`
 Plug-in the battery, the charger will beep twice to launch charging.
 The voltage of each cell will be displayed on the LED screen by turns;



The charger will automatically stop when the battery is full, `FUL`
 Will flash with the beep every 5 seconds to indicate the status.

Voltage display

Connect the balance lead socket only, the voltage of each cell will display on the screen by turns.



Error Codes

If charger detected error, charging will stop. Display shows error code, and the buzzer alarms. Reconnect adaptor to restore the charger.

- `Er0` - `Er8` Self-safety-check can not pass
- `Er2` The input voltage or power is out of range
- `Er9` One or more cells of the battery is bad

SPECIFICATION:

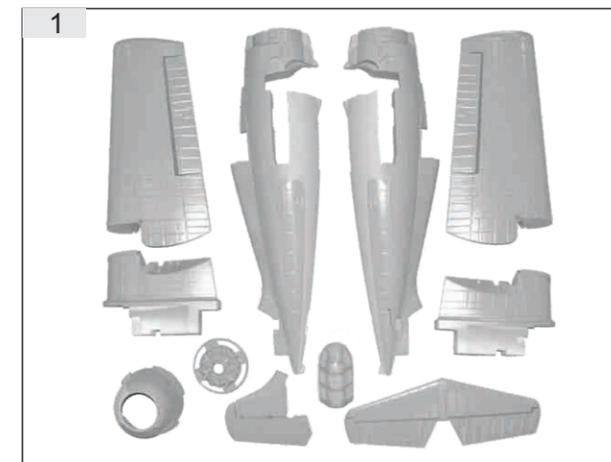
Length:903mm
 Wingspan:1200mm
 Propeller :12×6 inch 3 bladed
 Flying weight:1700g
 Thrust: $\geq 2000g$

CONTENTS INCLUDE:

8CH RC
 50A Brushless ESC
 4×Digital metal servo
 2×Screw servo
 3748-700KV Out brushless motor
 4S 25C 2200mAh battery

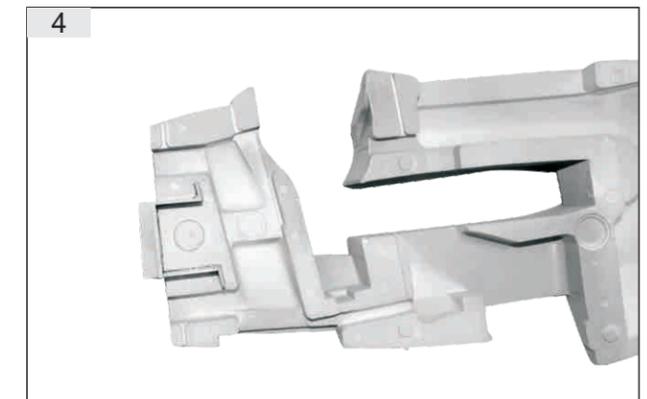
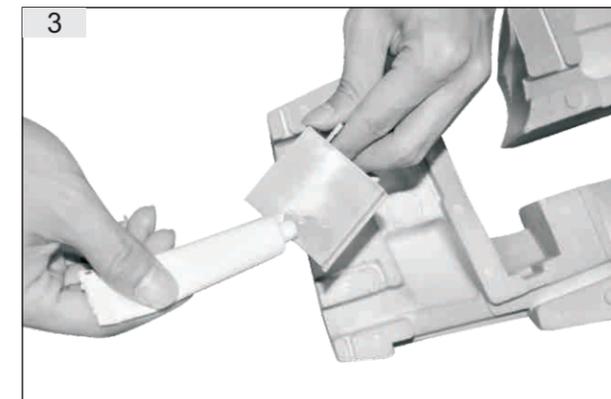


1 General view schedule (1~2).

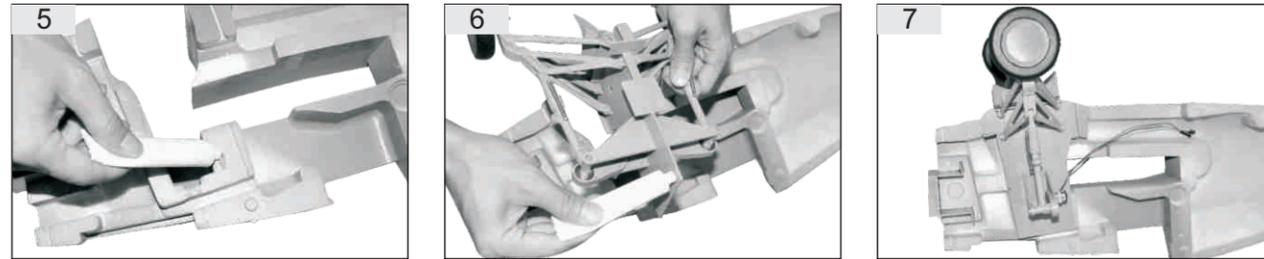


2 Fuselage Installation

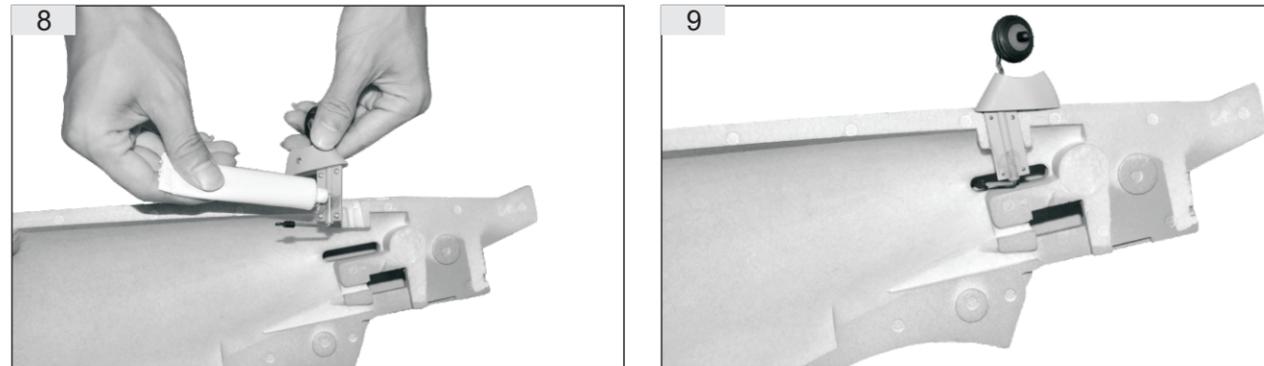
(1) Motor cabinet installation(3~4).



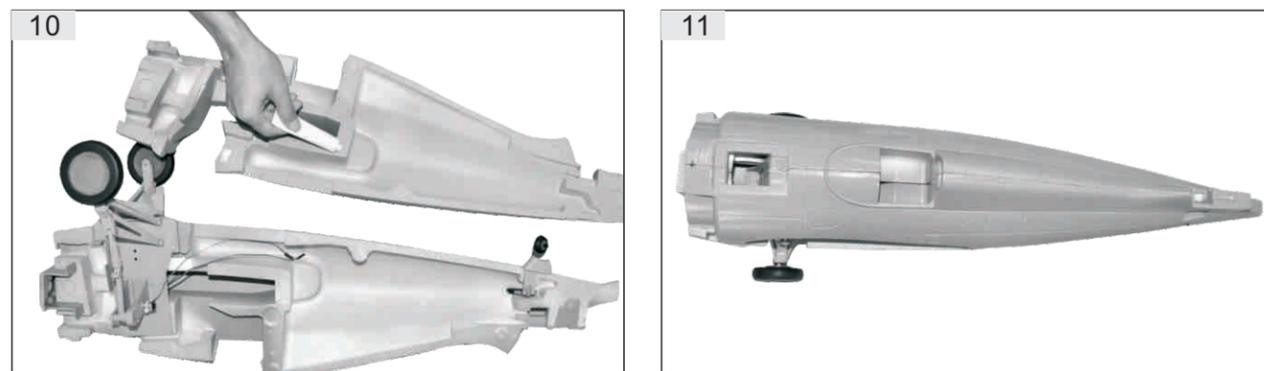
(2) Front retract installation (5~7).



(3) Rear retract installation (8~9).



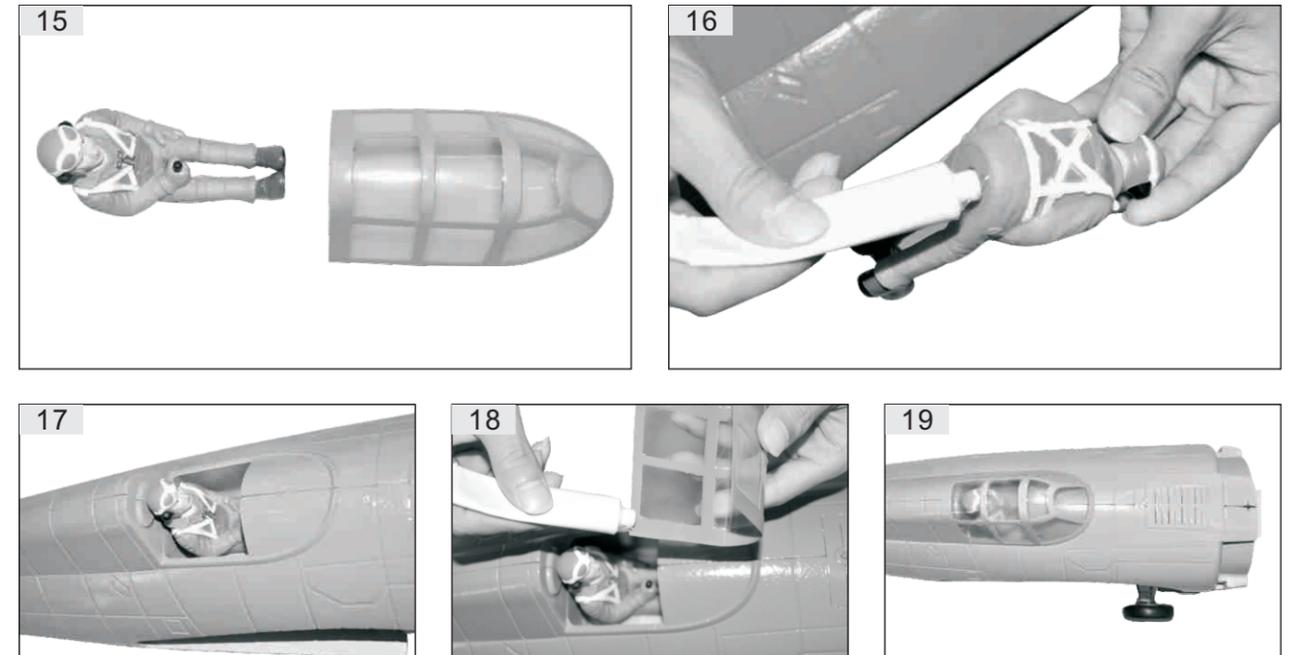
(4) The combination of left and right fuselage (10~11).



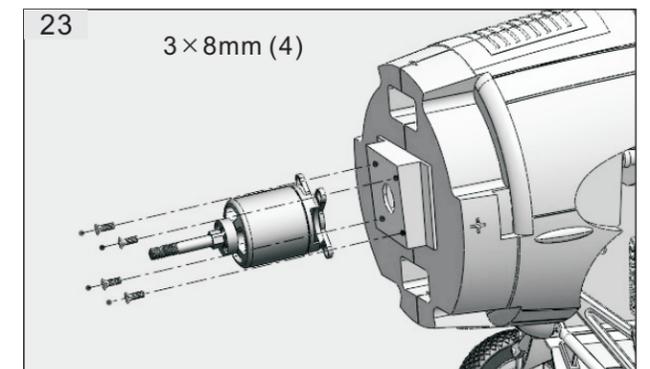
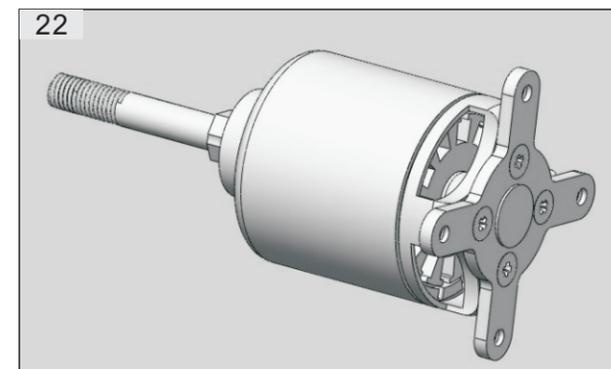
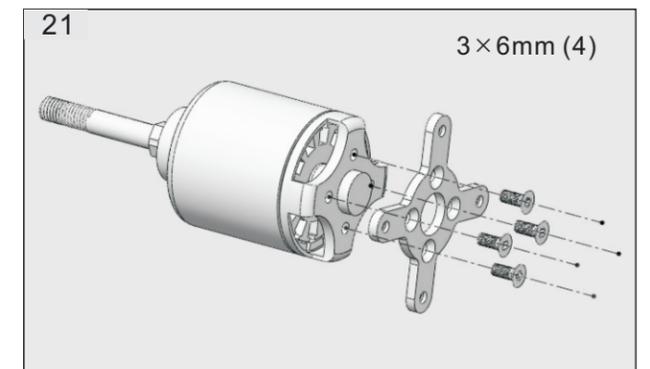
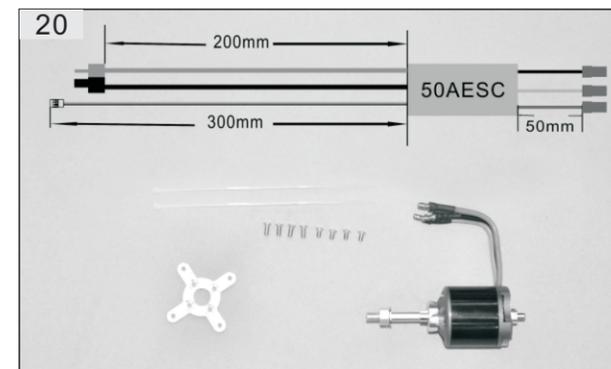
(5) Battery cover installation (12~14).

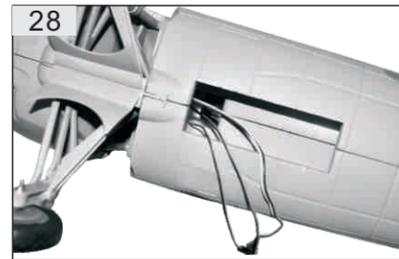
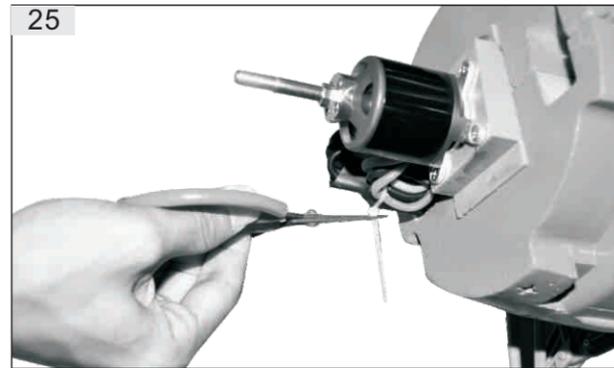
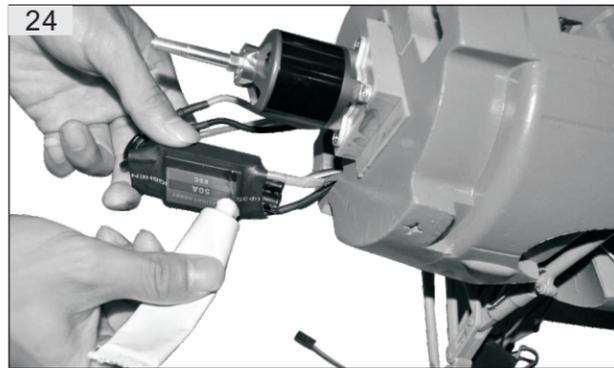


(6) The installation of pilot and canopy (15~19).



3 Motor Installation; ESC Installation(20~28).



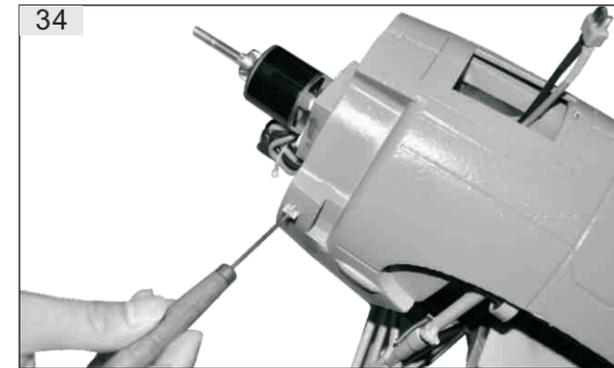
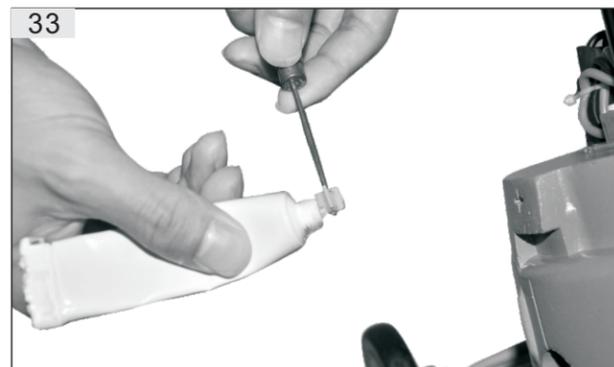


4 Cowling Installation.

(1) Engine installation (29~31).



(2) The installation of permanent seat for cowling (32~35).



(3) Cowling installation (36).



(4) Propeller installation (37~39).

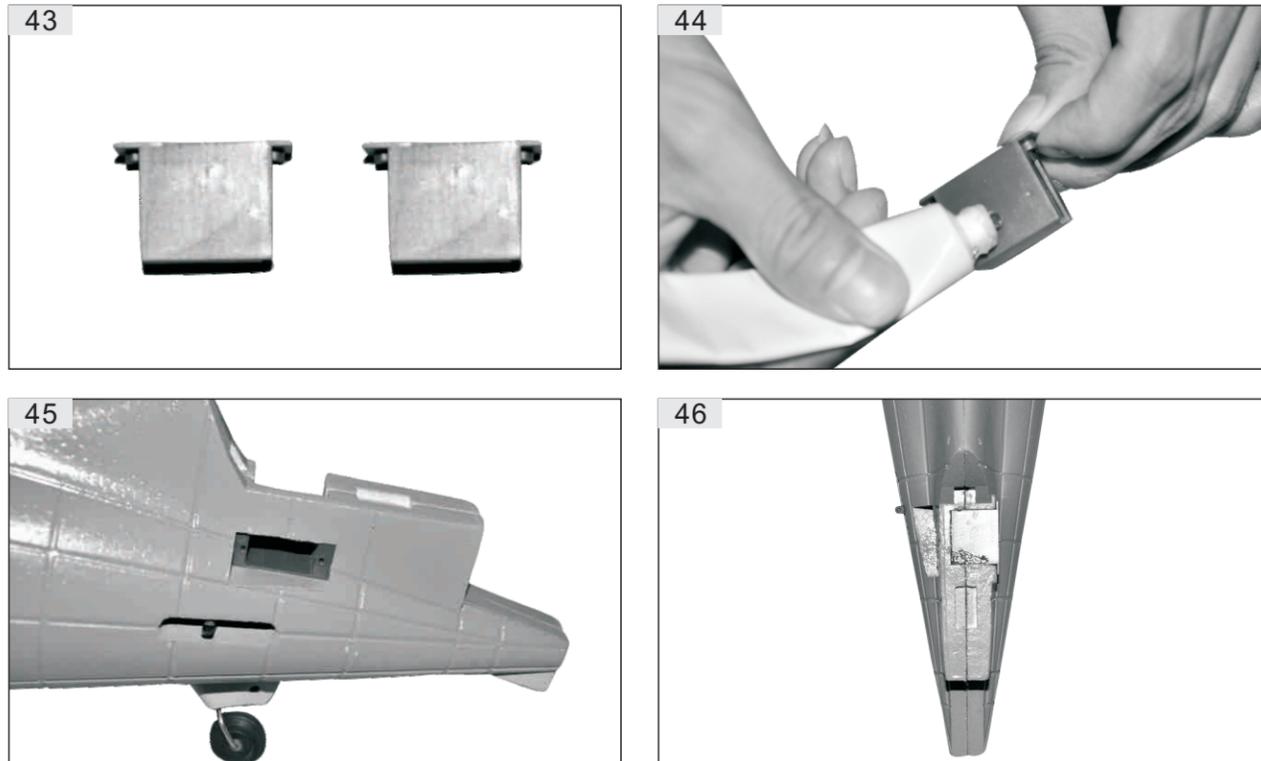


(5) Receiver cover installation (40~42).



5 Tail wing installation.

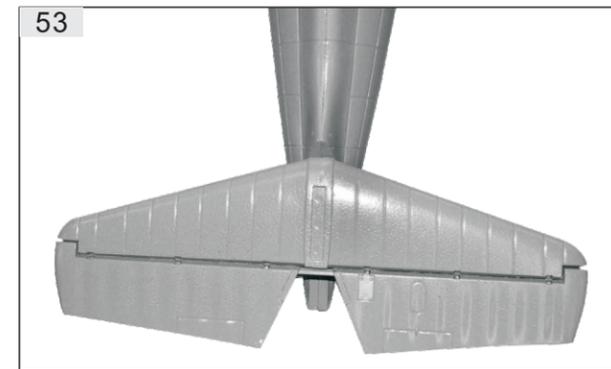
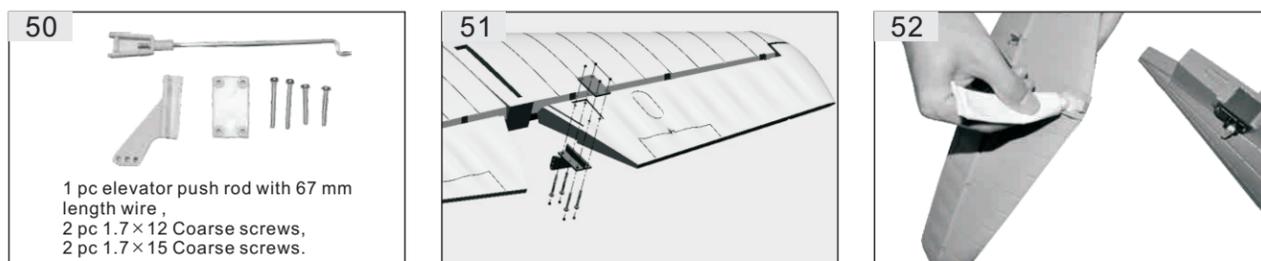
(1) The installation of servo permanent seat in tail wing (43~46).



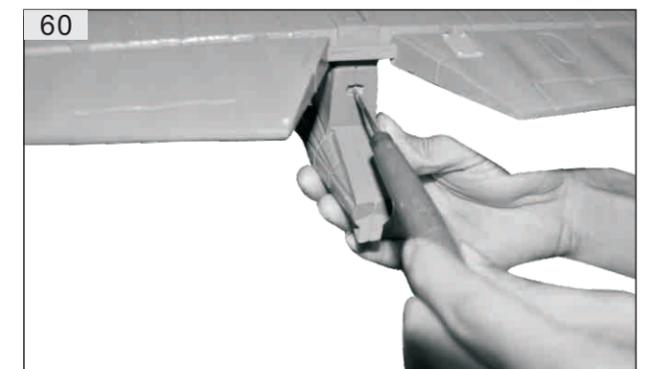
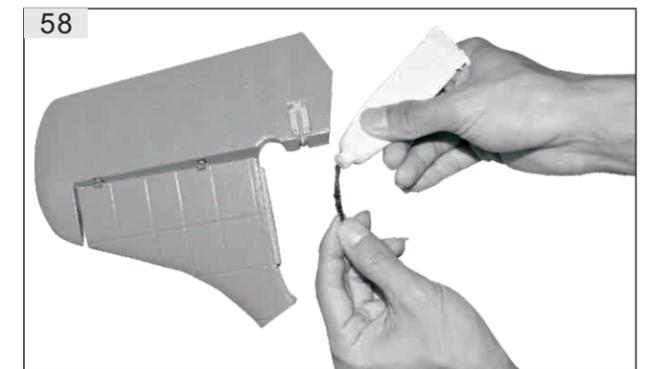
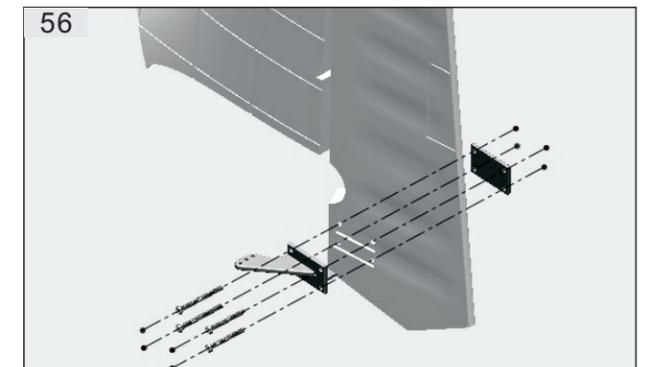
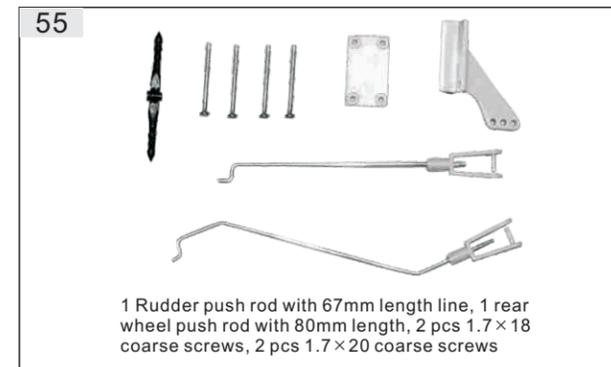
(2) The installation of servos in elevator and rudder (47~49).

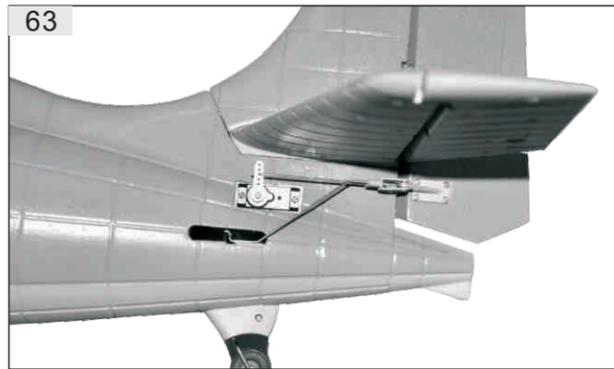
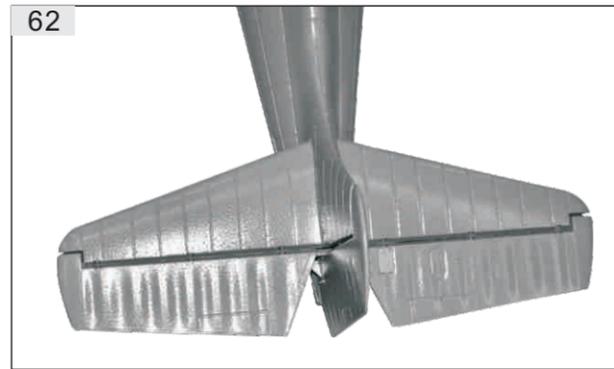
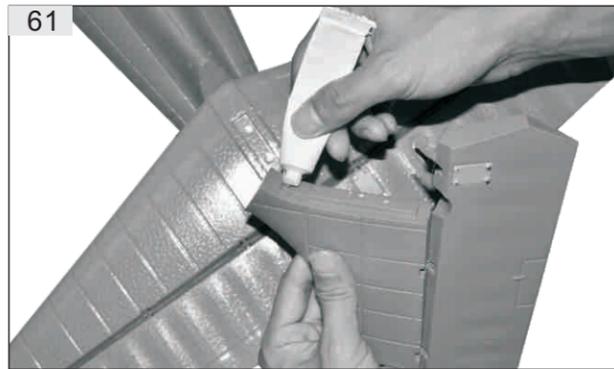


(3) The installation of Horizontal tail (50~54).



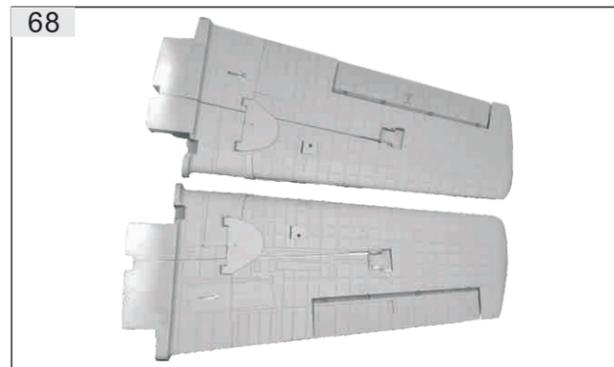
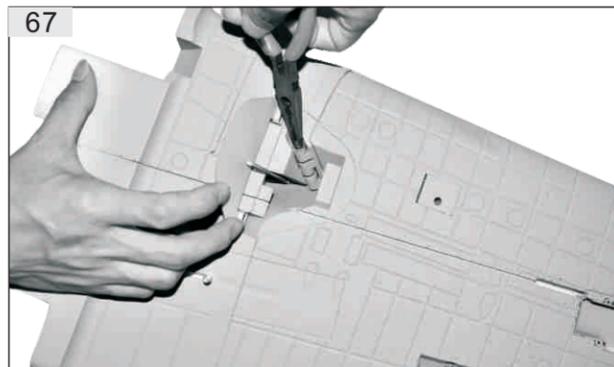
(4) The installation of vertical fin (55~64).



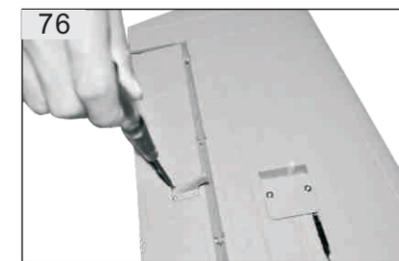
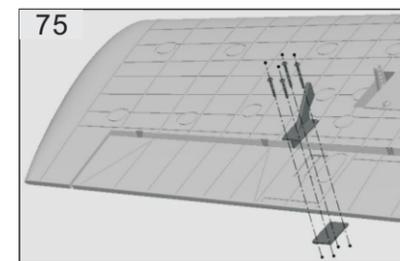
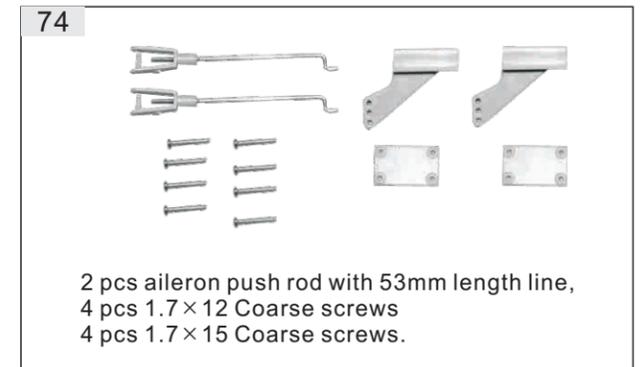
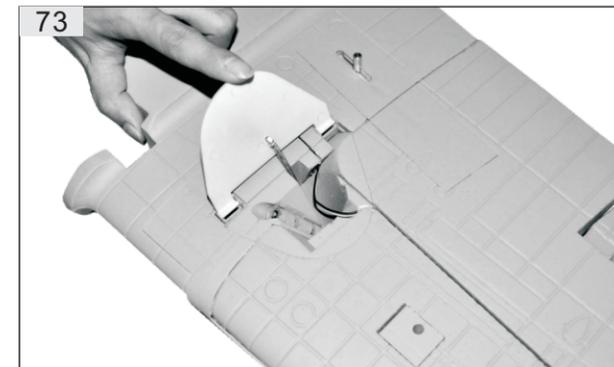
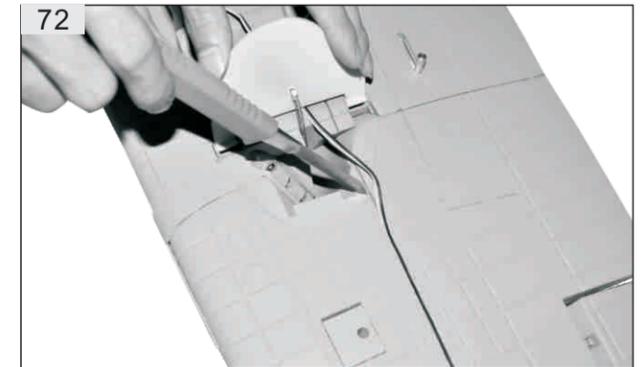
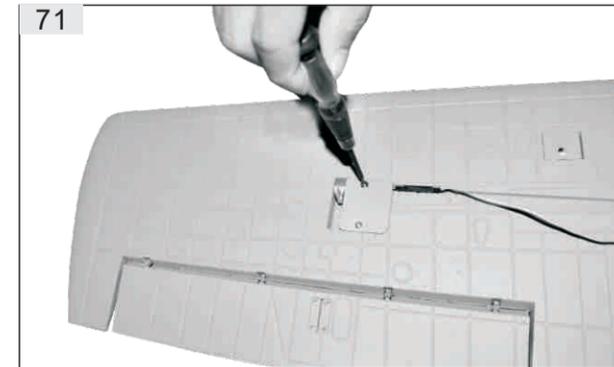
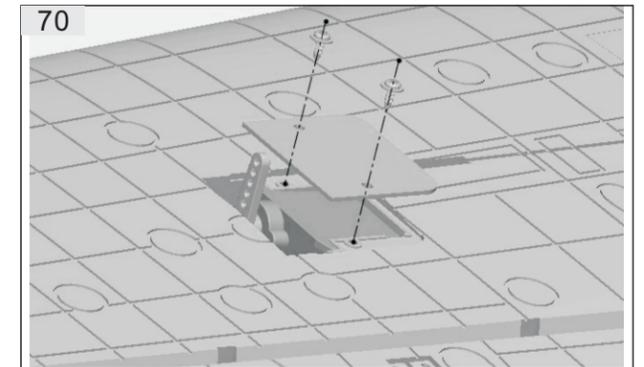
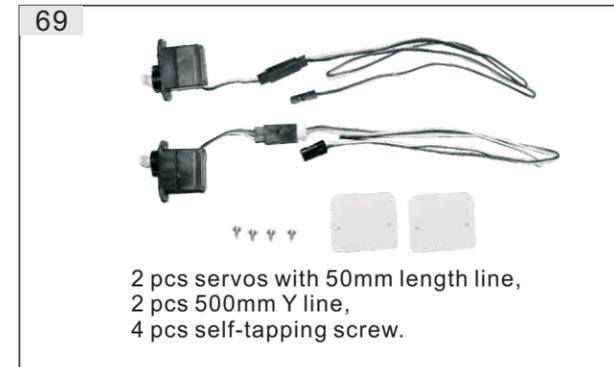


6 Main wing Installation.

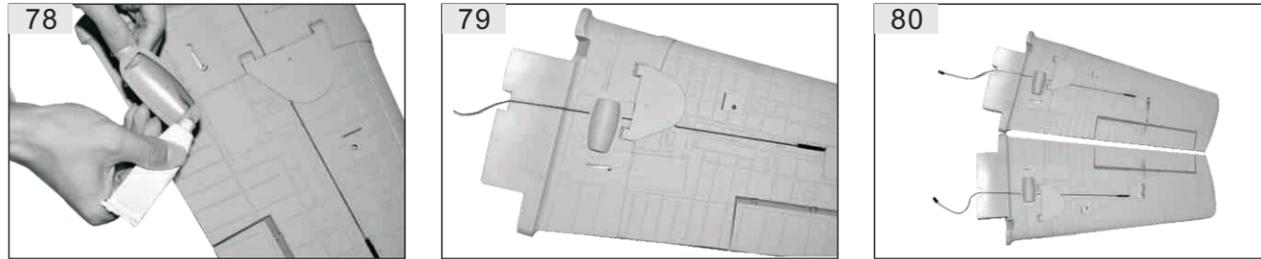
(1) The installation of Folding wing (65~68).



(2) The installation of aileron servo, the horn of aileron and push rod (69~77).



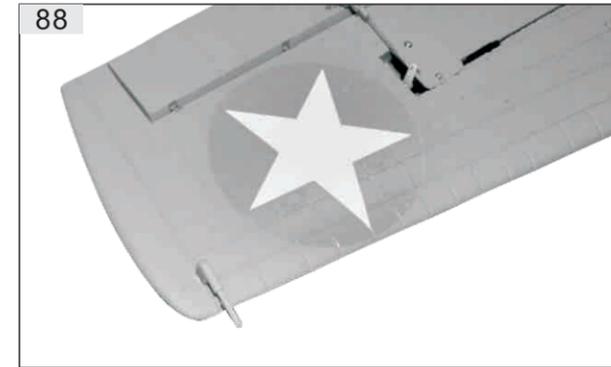
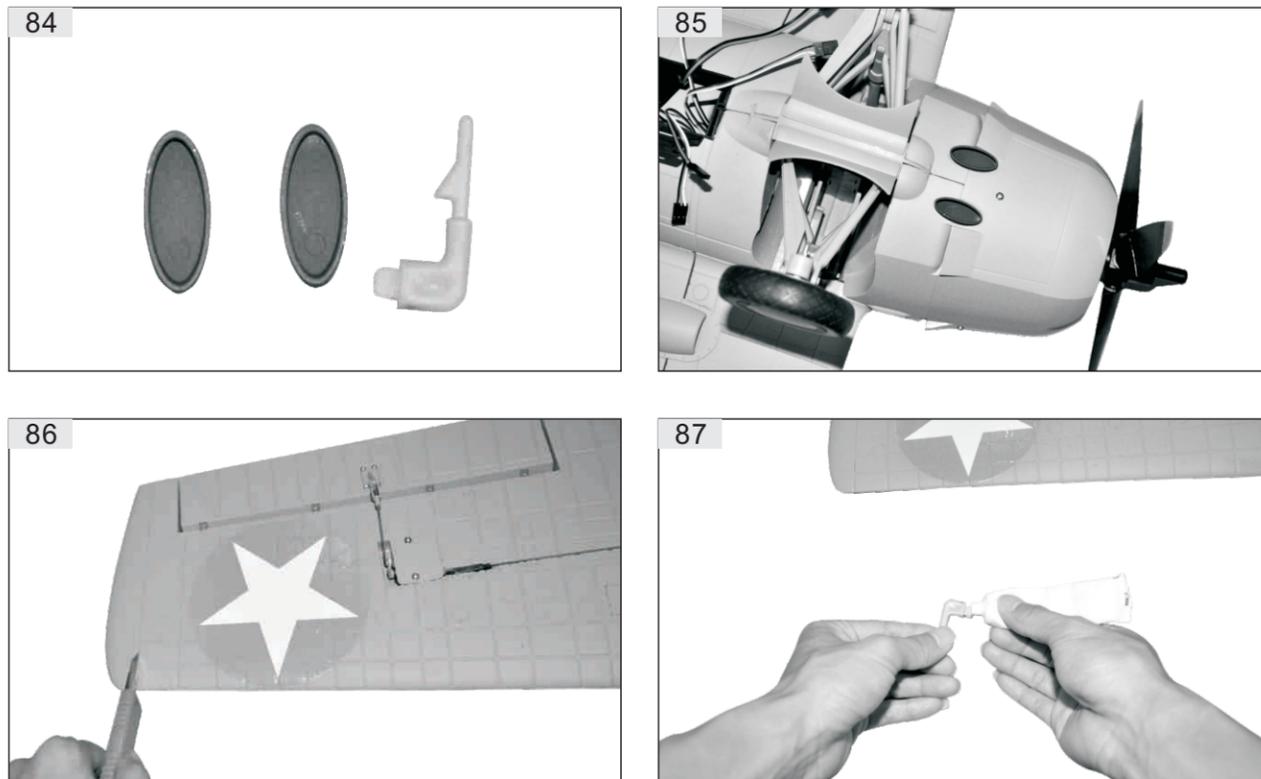
(3) The installation of decorating parts in main wing (78~80).



(4) The Fixed for main wing and fuselage (81~83).

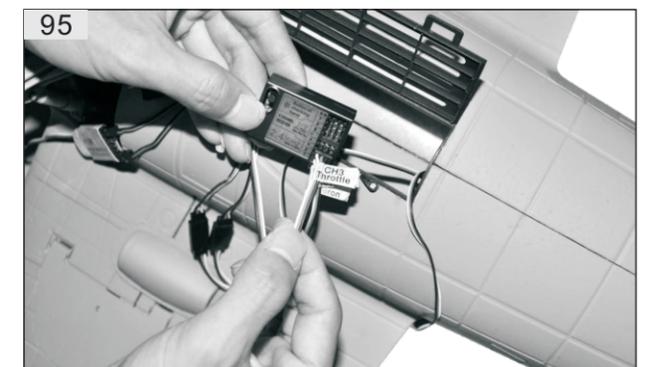
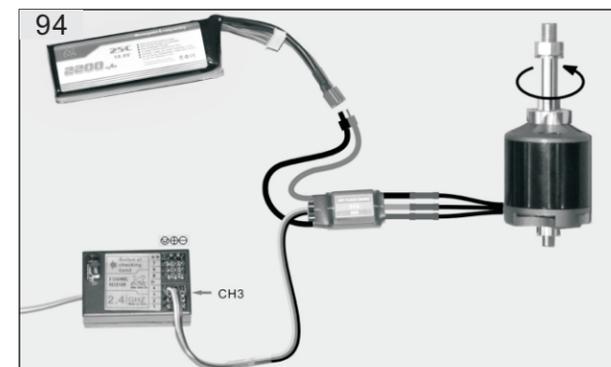
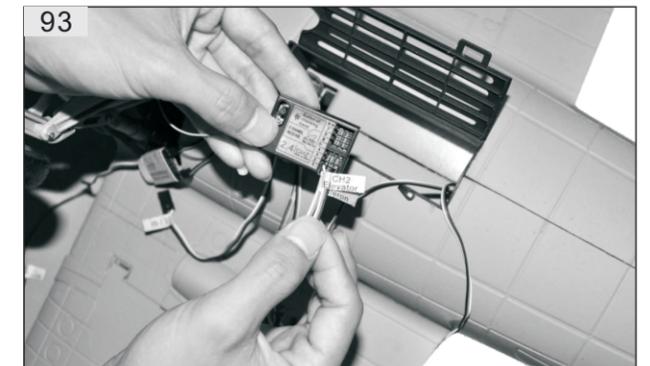
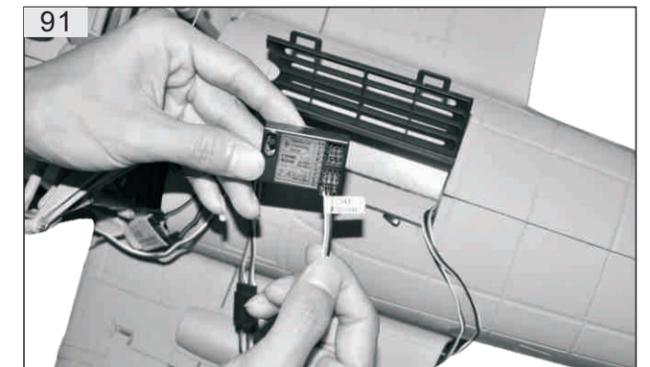
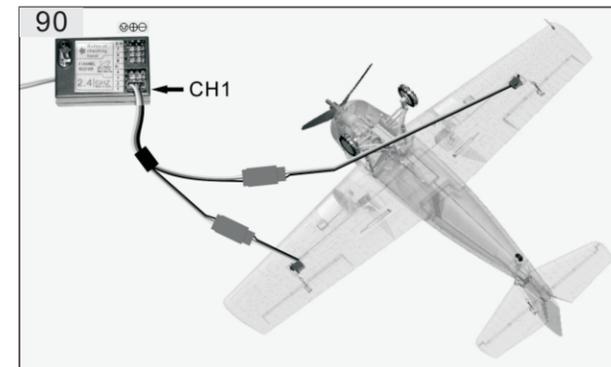


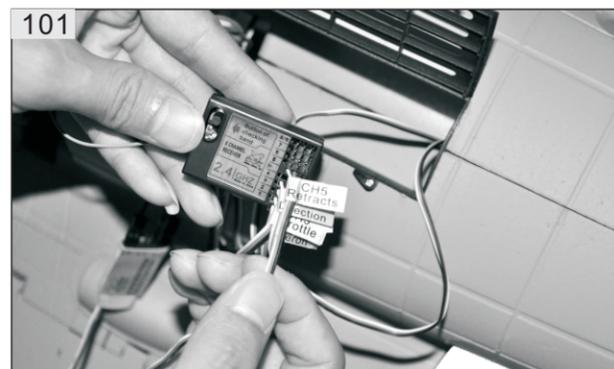
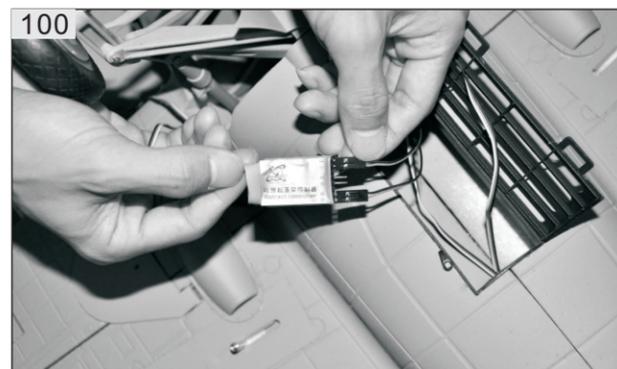
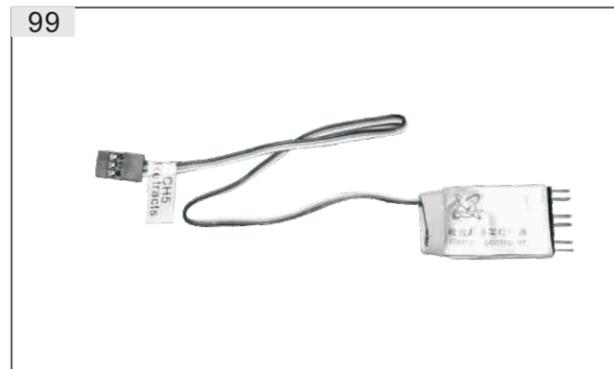
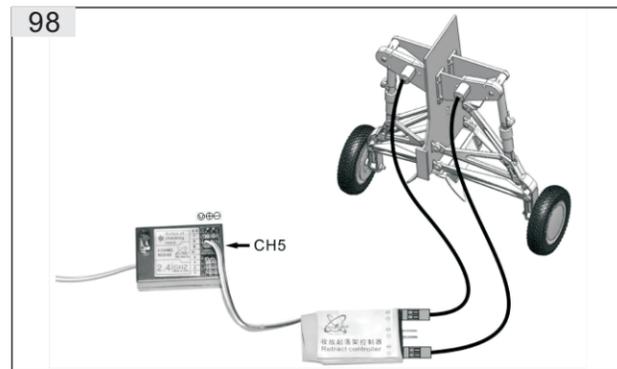
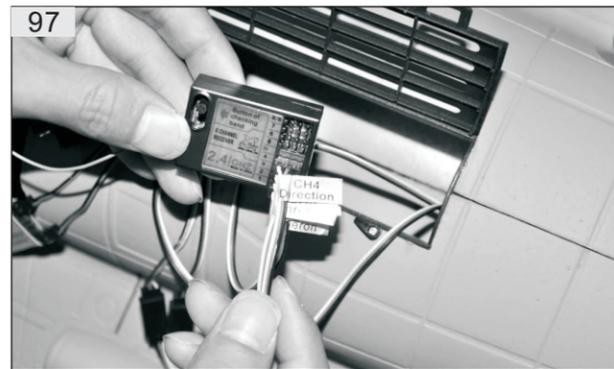
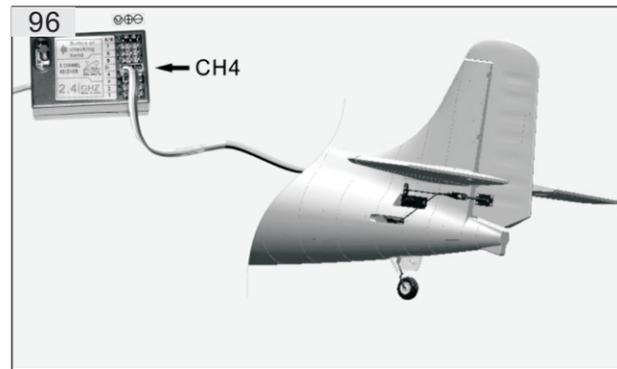
(5) The installation of decorating parts (84~89).



(6) The installation of receiver (90~103).

It would not work if connecting the signal line of servo improperly , even burn it .

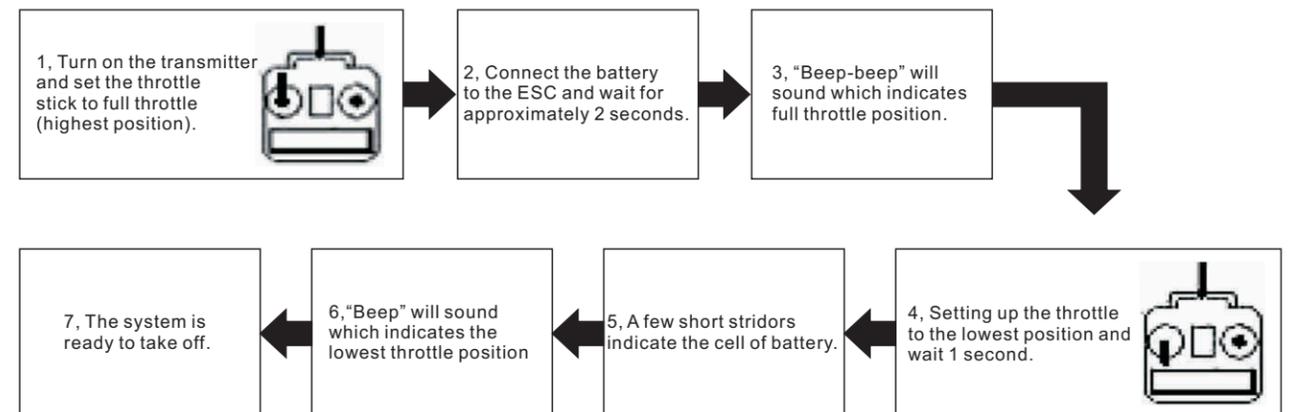




(7) The installation of battery in remote control (104).



Note: Only calibrate the throttle when operating the ESC for the first time or when operating with another transmitter and receiver system.
The calibration way as follows:

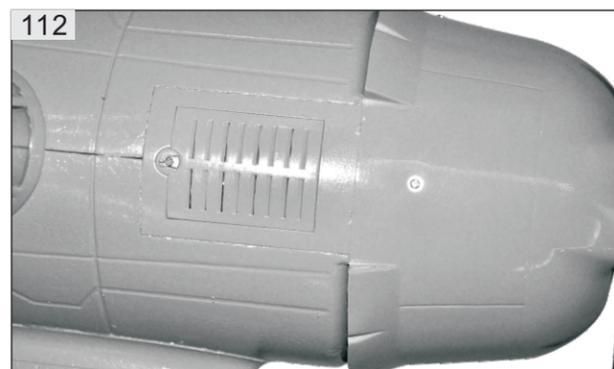
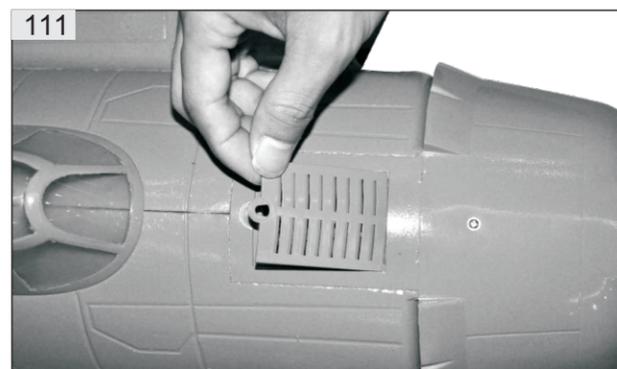
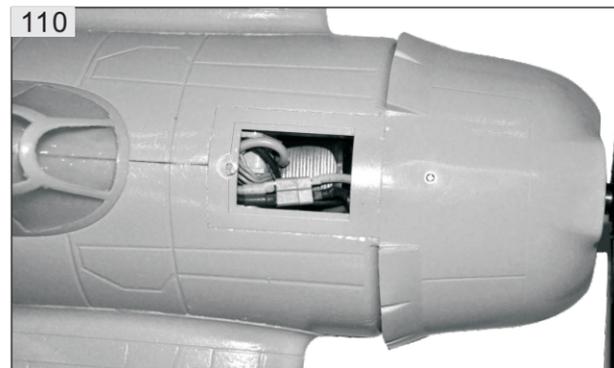


7 Channel testing.

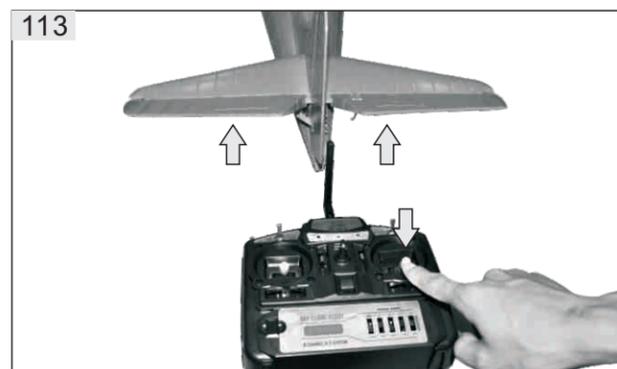
(1) Put the throttle to the lowest position (105). (2) Switch on the remote control (106).



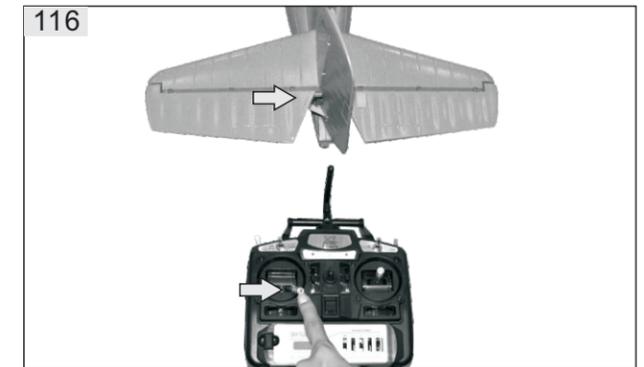
(3) Battery (power) installation (107~112).



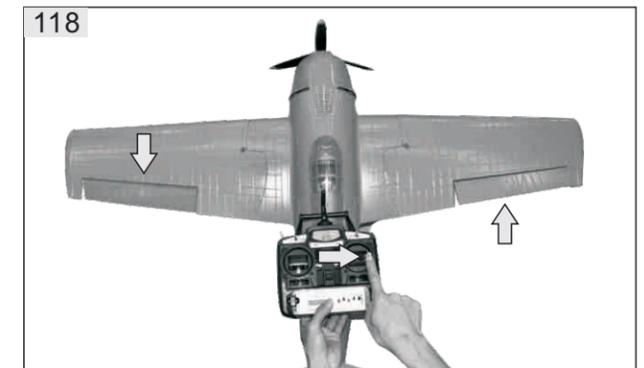
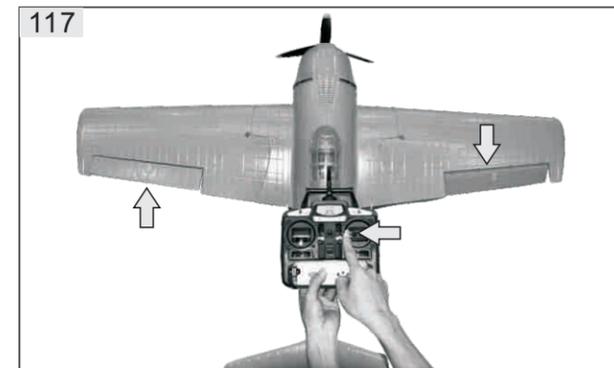
(4) Elevator servos testing (113~114).



(5) Rudder servos testing (115~116).



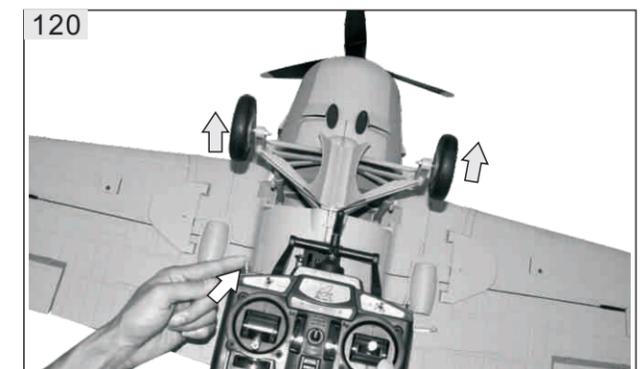
(6) Aileron testing (117~118).



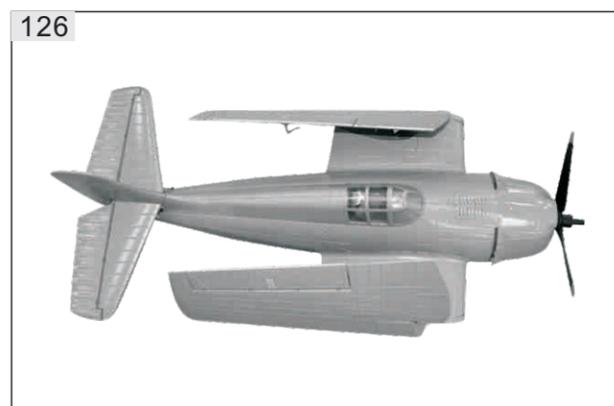
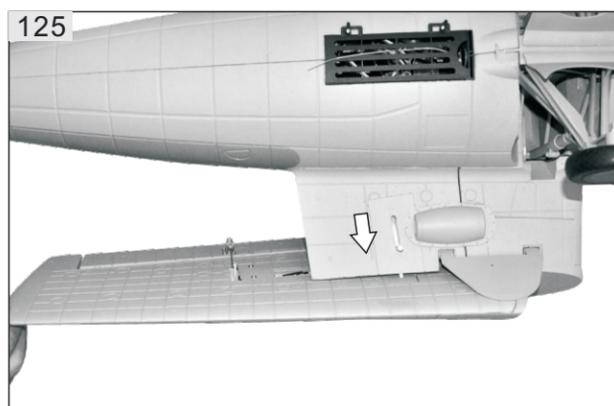
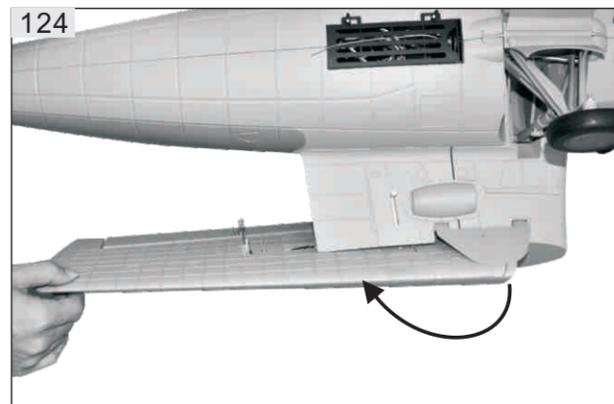
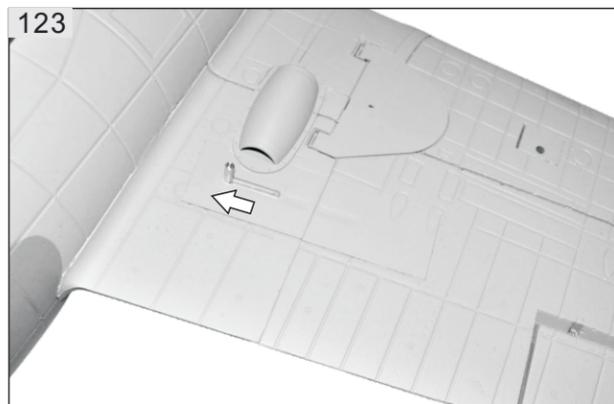
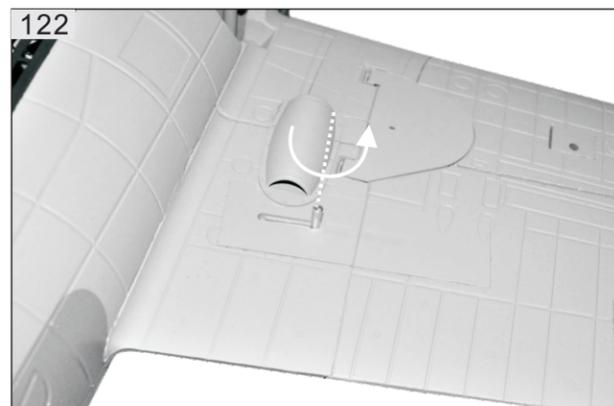
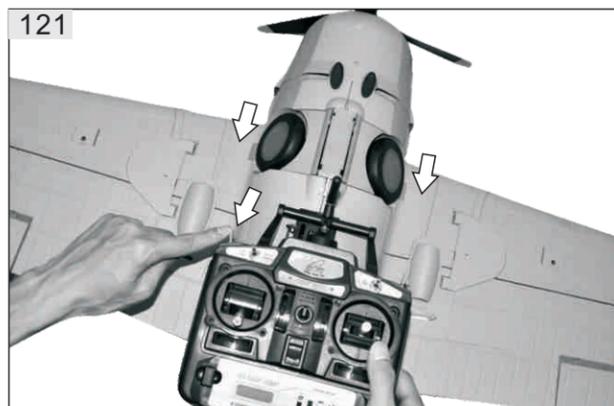
(7) Throttle testing (119).



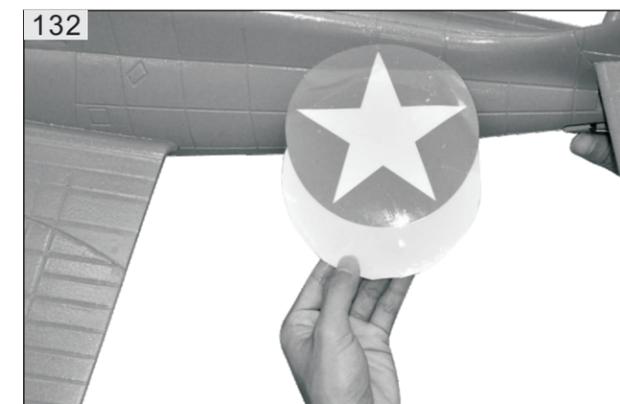
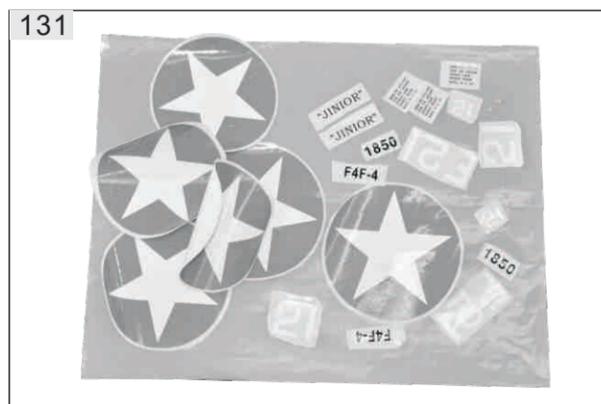
(8) Retract testing (120~121).

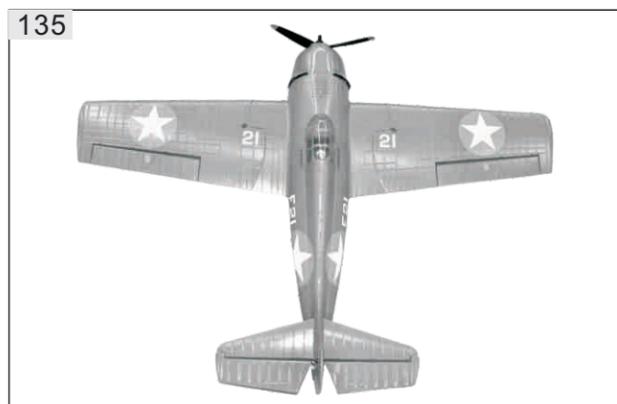
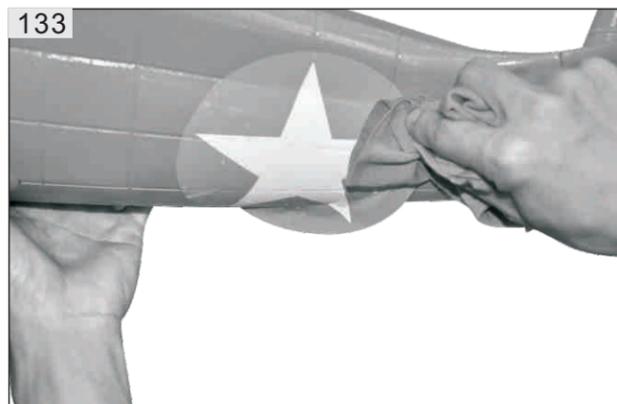


(9) Folding wing testing (122~126).

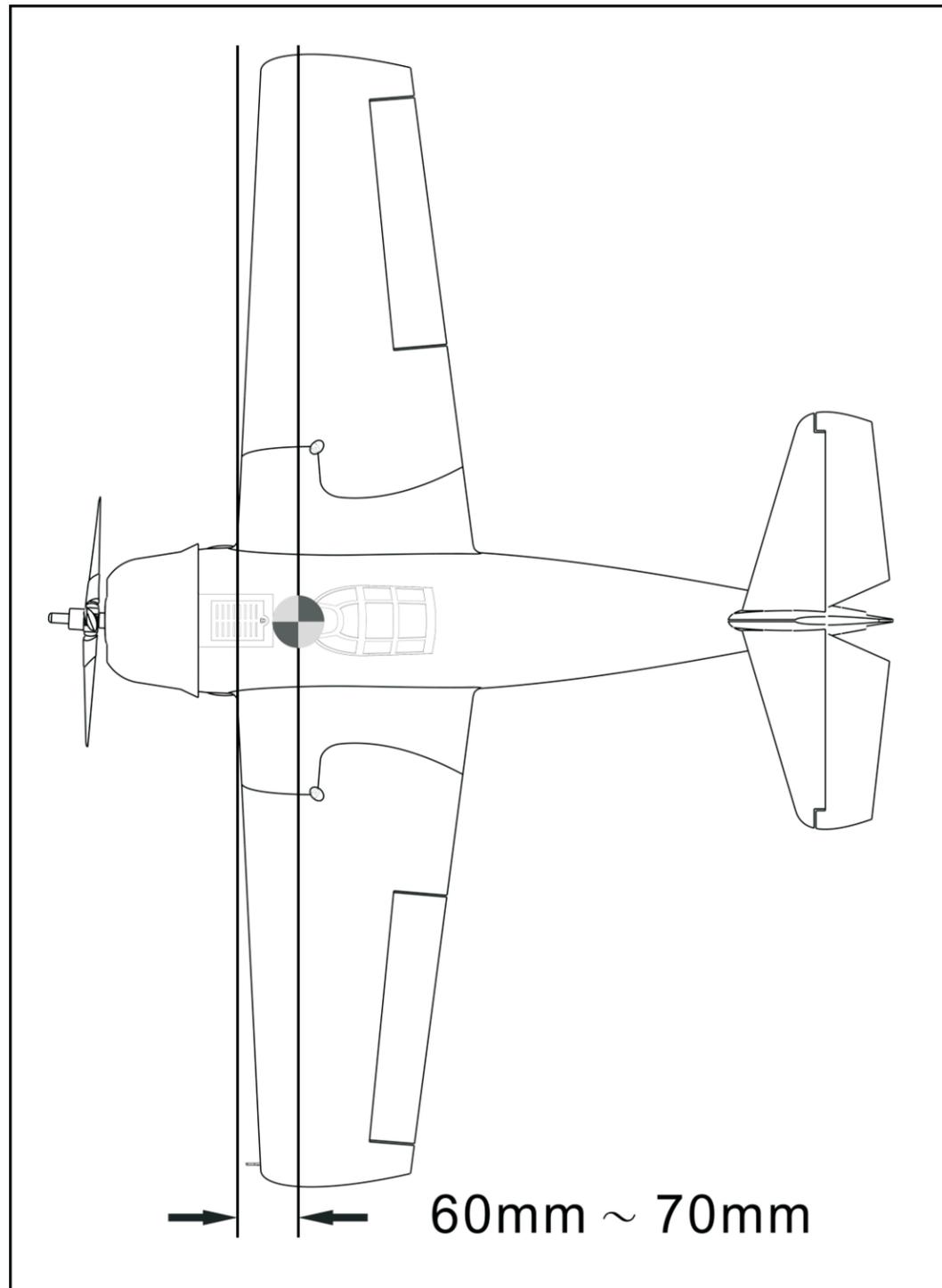


8 Beauty (127~139).





9 CG debugging.



F4F Pre-Flight Check

1. Check carefully that every part of the plane is installed properly.
2. Always check that there are no other pilots using the same frequency in the same area.
3. Please switch on the power of the transmitter before connecting the battery. Make sure that the battery is fully charged.
4. Check that the plane responds properly to the control signals.
5. Extend the transmitter antenna all the way and test the range of the radio signal. With the transmitter and model switched on, step back around 20m and test the interference. If there is no interference, the plane is ready to fly.

Problem Solving

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