Before start , please carefully read the explanations!

F9F Cougar



Length: 1803mm/71in
Wing Span: 1562mm/61.5in
Flying Weight: 19lbs (~8.6kg)
Turbine: 8kg turbine
Radio: Min. 7 Servos required
C.G: 175mm from the leading edge of wing root.

INSTRUCTION MANUAL

SAFETY PRECAUTIONS

This R/C airplane is not a toy!

(The people under 18 years old is forbidden from flying this model)

First-time builders should seek advice from people having building experience.If misused or abused,it can cause serious bodily injury and damage to property.

Fly only in open areas and preferably at a dedicated R/C flying site. We suggest having a qualified instructor carefully inspect your airplane before its first flight.Please carefully read and follow all instructions included with this airplane,your radio control system and any other components purchased separately.

TopRCModel-USA.com

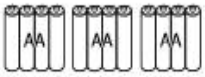
REQUIRED FOR OPERATION (Purchase separately!)

CAUTION: For details concerning the equipment listed below (size, maker, etc.), check with your hobby shop.

1 A minimum 6 channel radio for airplanes (with 8 servos), and dry batteries.

CAUTION: Only use a minimum 6 channel radio for airplanes! (No other radio may be used!)
6 channel radio for aiplane is highly recommended for this model.

12 AA-size Batteries



A minimum 6 channel transmitter for airplanes.



For handling the radio properly, refer to its instruction manual.

2 Engine and Muffler

Model Airplane Engine : 6KG Turbine



3 Sponge Sheet



Gasoline tube



Fuel Filter

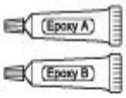


4 Glue

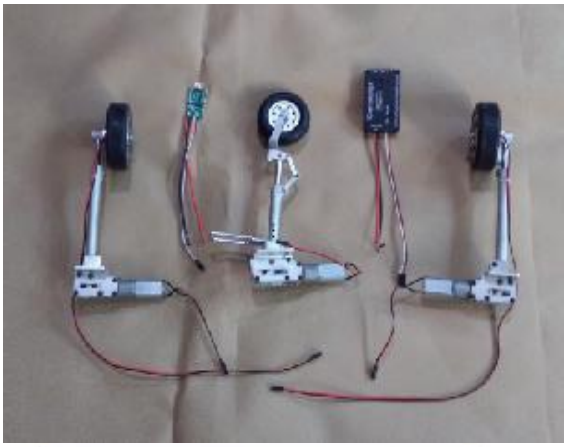
Instant Glue



Epoxy Glue



5 Optional electric retract set



TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



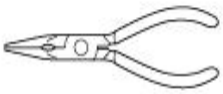
Phillips Screw Driver (l, m, s)



Awl



Needle Nose Pliers



Wire Cutters



Scissors



BEFORE YOU BEGIN

1 Read through the manual before you begin, so you will have an overall idea of what to do.

2 Check all parts. If you find any defective or missing parts, contact your local dealer.

3 Symbols used throughout this instruction manual, comprise:

4 We strongly recommen you use the thread lock for all the screws when you build your model.

Do not overlook this Symbol!

Warning!

A B Apply epoxy glue.

2mm Drill holes with the specified diameter (2mm).

Cut off excess.

Pay close attention here!

L R Assemble left and right sides the same way.

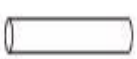
CA Apply instant glue (CA glue, super glue).

Cut off shade portion.

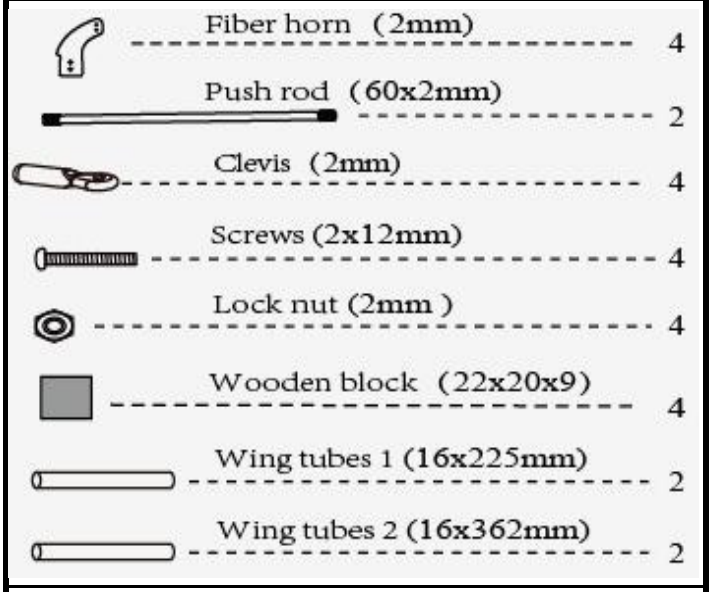
Ensure smooth non-binding movement while assembling.

X Must be purchased separately!

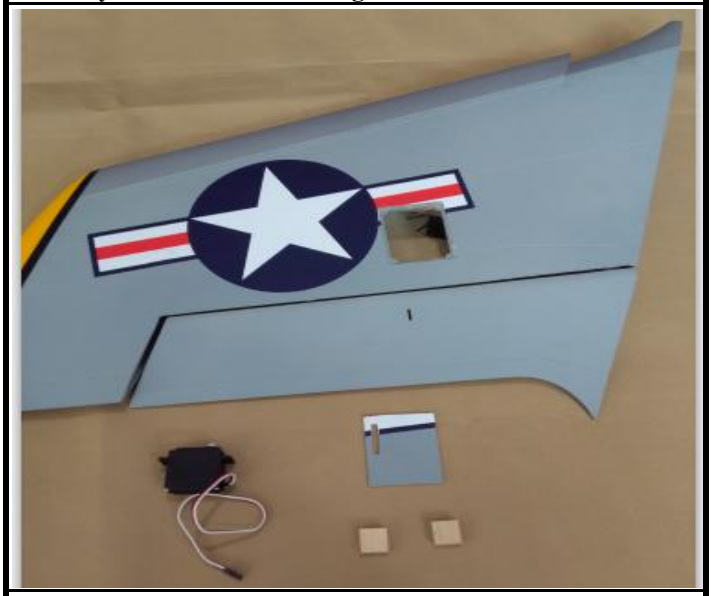
Accessories packing list

 TP screw (2x8mm) ---- 4	 Nylon horn (2mm) ---- 2
 TP screw (2.3x8mm) ---- 14	 Pivot hinge (5x68mm) ---- 3
 TP screw (3x14mm) ---- 8	 Hard wood block (22x20x9) ---- 4
 Screw (2x12mm) ---- 10	 Fuel tank and accessories ---- 1
 Nylock nut (2mm) ---- 10	 Wing tube 1 (16x225mm) ---- 2
 Clevis (2mm) ---- 14	 Wing tube 2 (16x362mm) ---- 2
 Push rod (28x2mm) ---- 2	 Stab tube 1 (8x136mm) ---- 1
 Push rod (60x2mm) ---- 4	 Stab tube 2 (8x295mm) ---- 1
 Push rod (115x2mm) ---- 1	 Vertical tube (16x128mm) ---- 1
 Fiber horn (2mm) ---- 7	

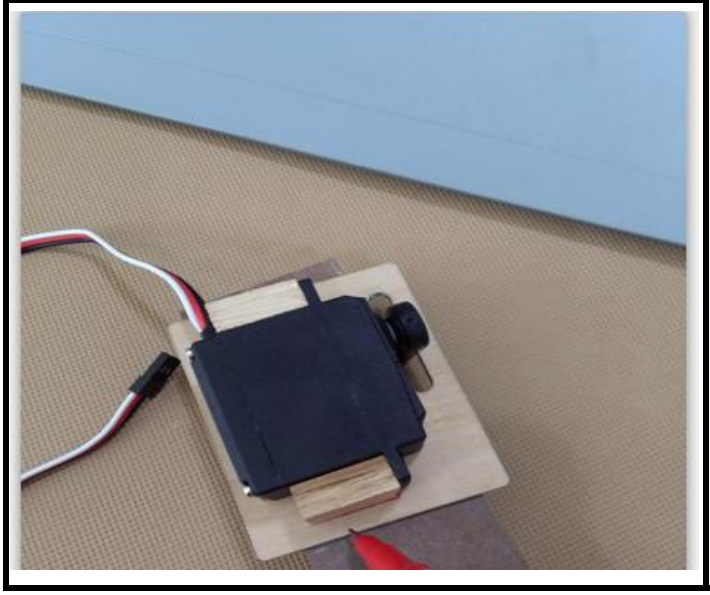
Accessory part lists for wing installation.



1. Ready for assemble the wing servos.



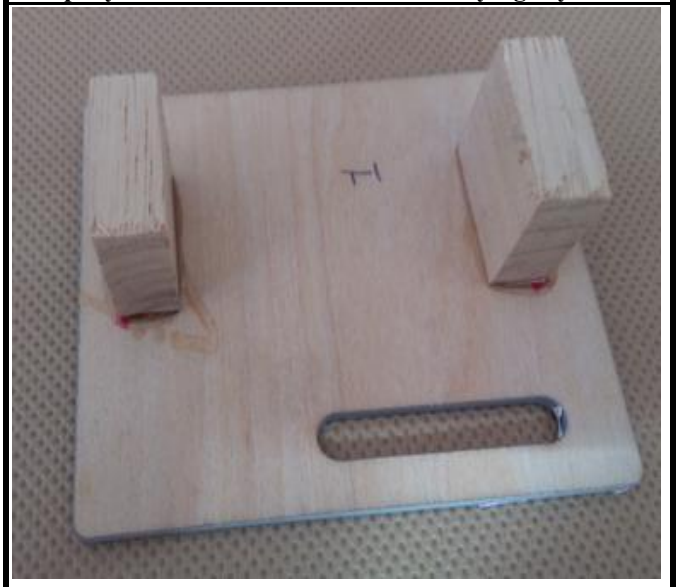
2. Put the wood block to appropriate position base on the servo tray, mark out with red.



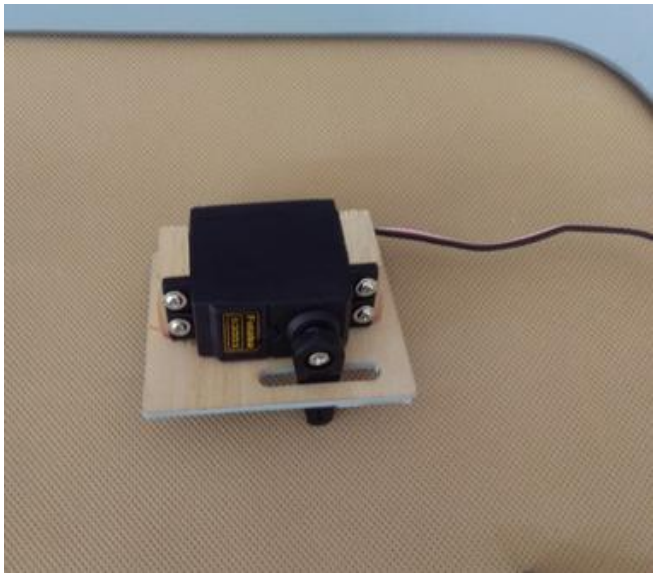
3. Epoxy the wood block to the servo tray base on the mark line.



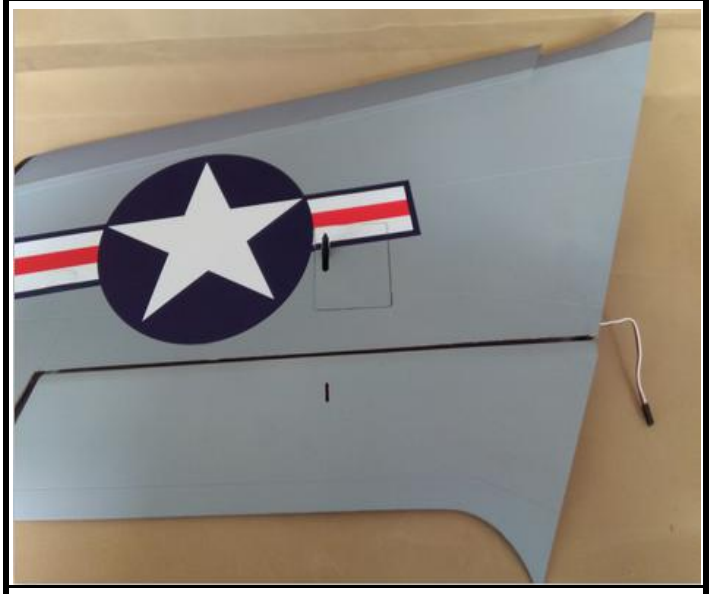
4. Epoxy the wood block to the servo tray tightly.



5. Assemble the servo to the servo tray with screws.



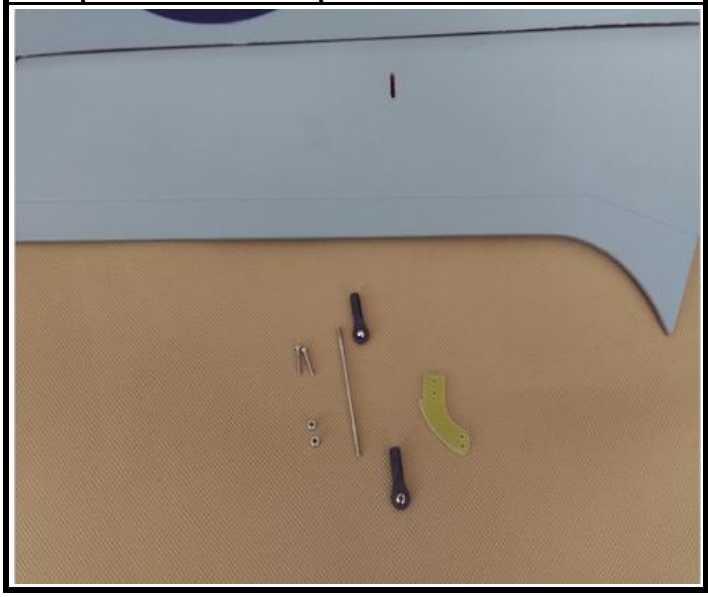
6. Assemble the servo to the wing



7. Drag the servo line out of the wing.



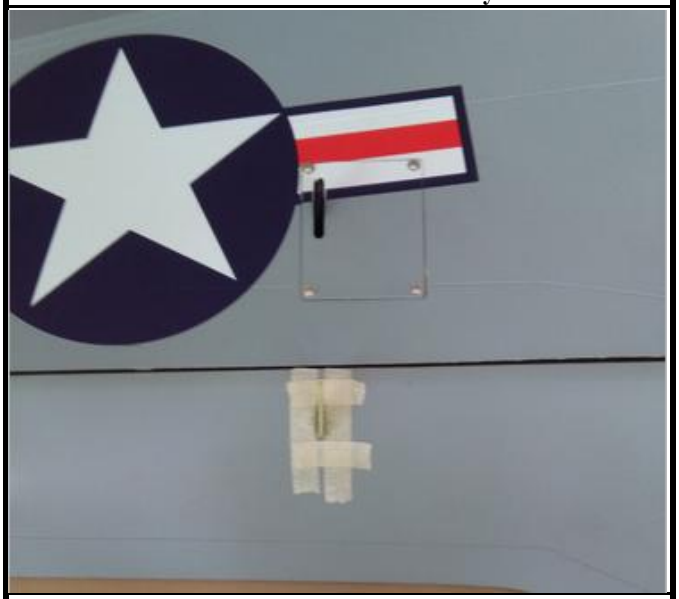
8. Prepare to assemble the push rod arm.



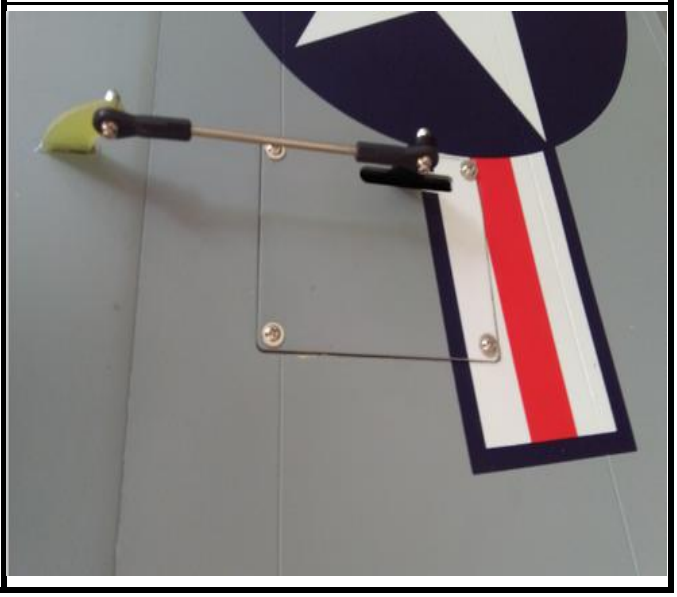
9. Before glue the arm to the slot, put masking tape around the slot to keep clean.



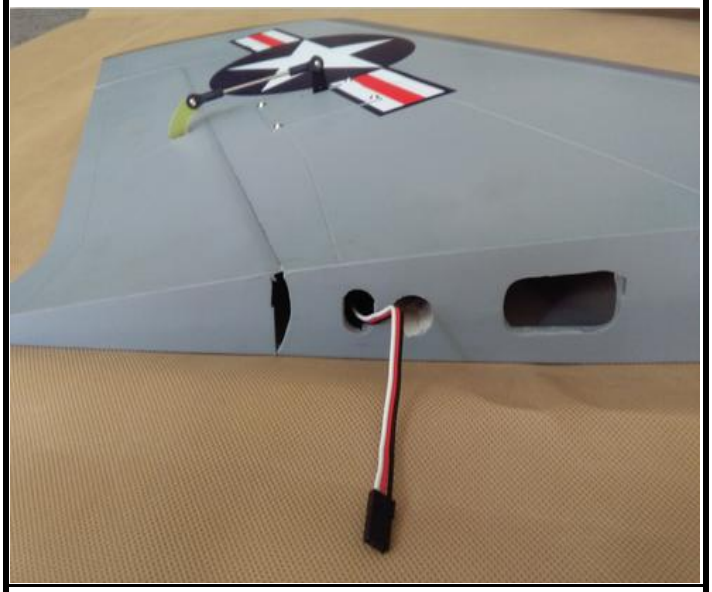
10. Glue the arm to the slot and wait it dry.



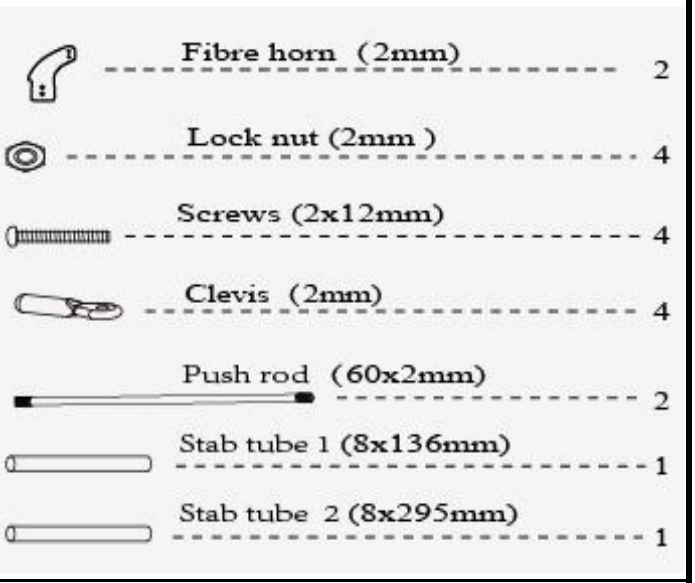
11.Connect the arm of the flap and servo arm with push rod.



12.The scketch map of the servo for the wing assembly finished.



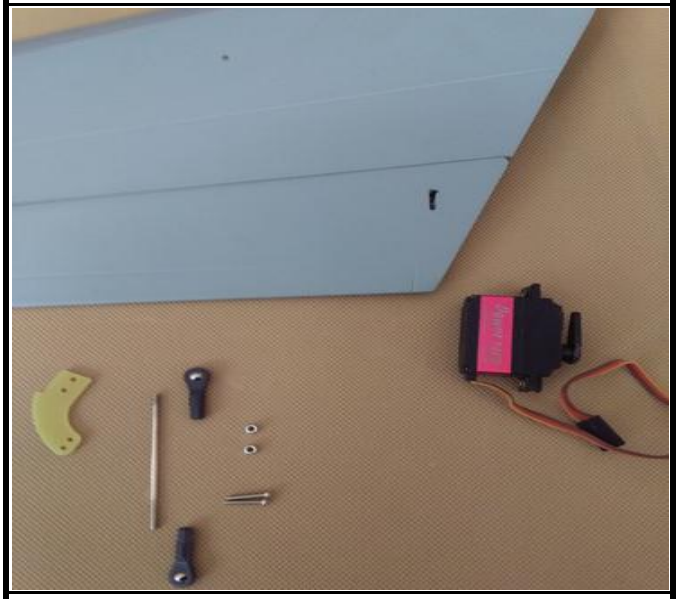
Accessories part list for the stabilizer installation.



13.Sanding the fiber horn.



14.Prepare the parts for assembly the stab servo.



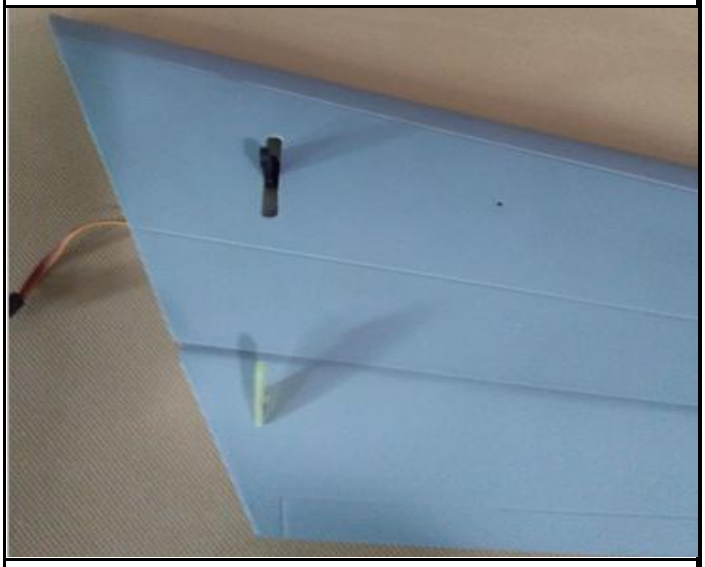
15.Measure the deepth and mark out where the servo would location.



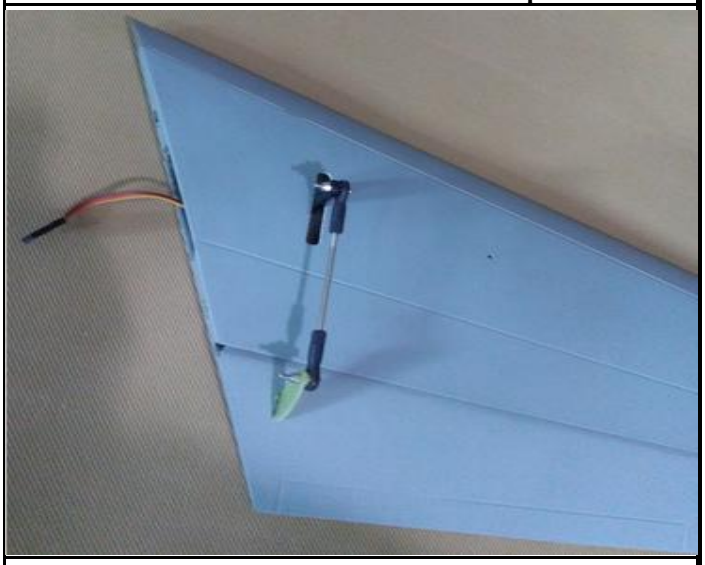
16.Trim a lot for the stab servo arm.



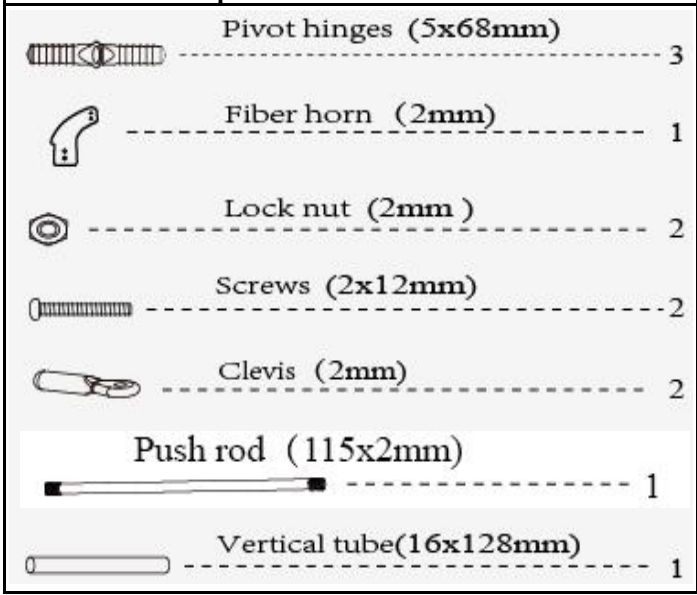
17.Glue the horn to the elevator and assemble the servo to the stabilizer.



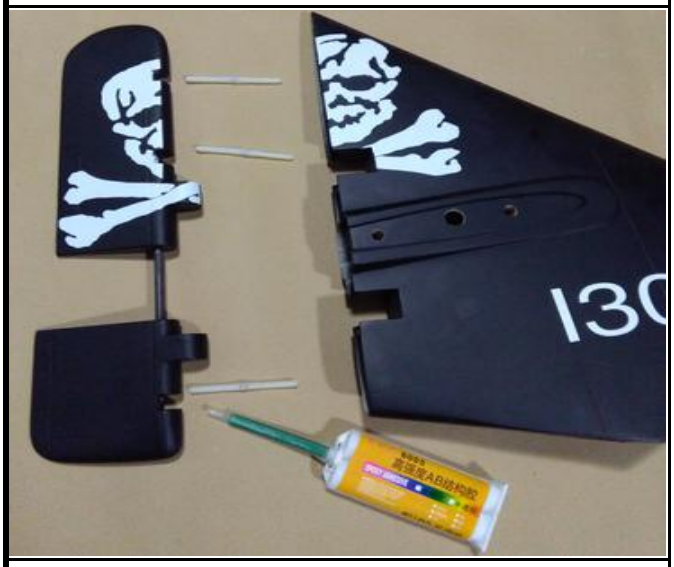
18.Connect the arm of servo to the horn with push rod.



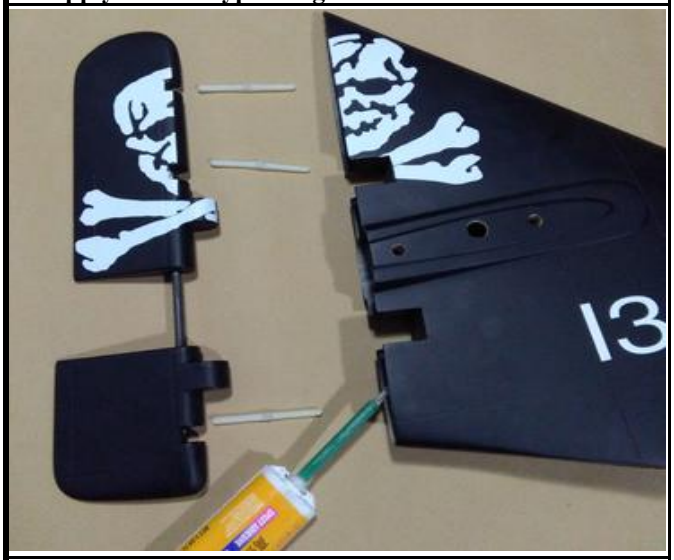
Accessories part lists for the rudder installation.



19.Apply instand type AB glue to the slots in the rudder.



20.Apply instand type AB glue to the slots in vertical fin.



21.Assemble the rudder to the vertical fin and make sure it can move freely.



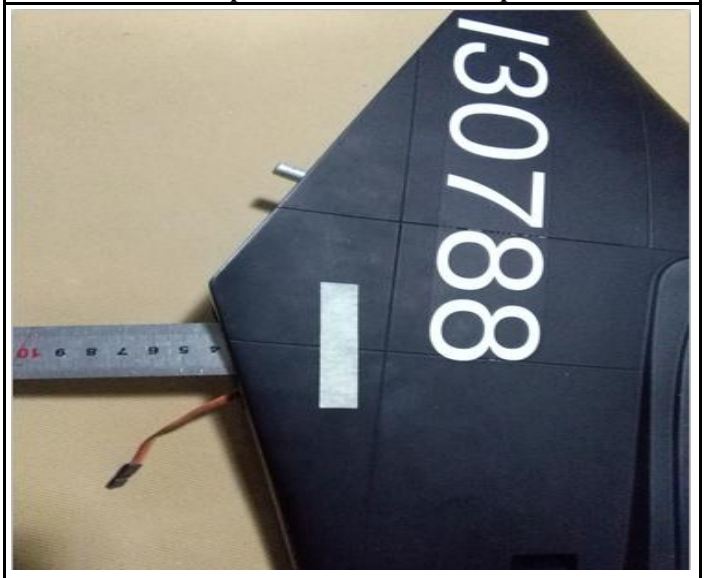
22.Apply instand type AB glue to the slots in the tail cone.



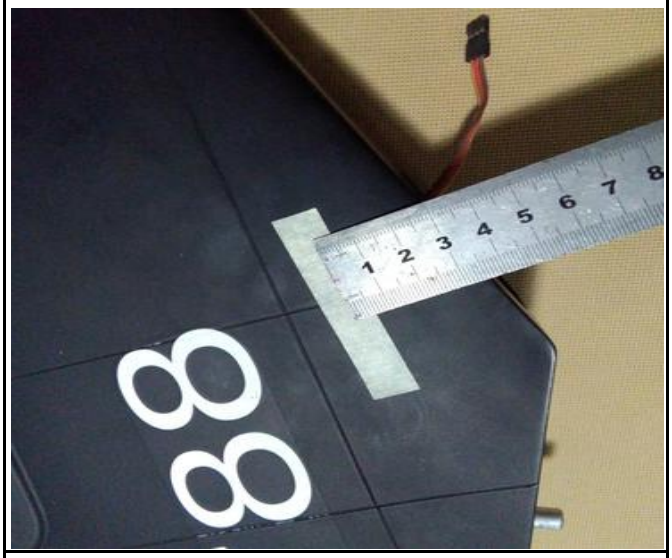
23.Assemble the tail cone to the vertical fine tightly.



24.Measure the deepth of the rudder servo position.



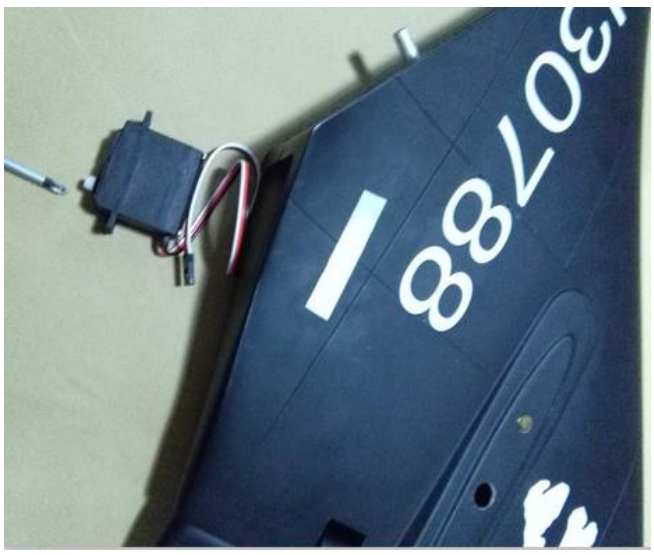
25.Mark it out at the outer side of the vertical.



26.Trim a slot for the servo arm.



27.Assemble the servo into the vertical fin with screw driver.



28.The sketch map after the servo of rudder assembly.



29. Trim a slot at the appropriate position in the rudder.



30.Put masking tape around the slot to keep the plane body clean after work done.



31.Glue the fiber horn to the slot tightly.



32.Remove the masking tape after the glue dried.



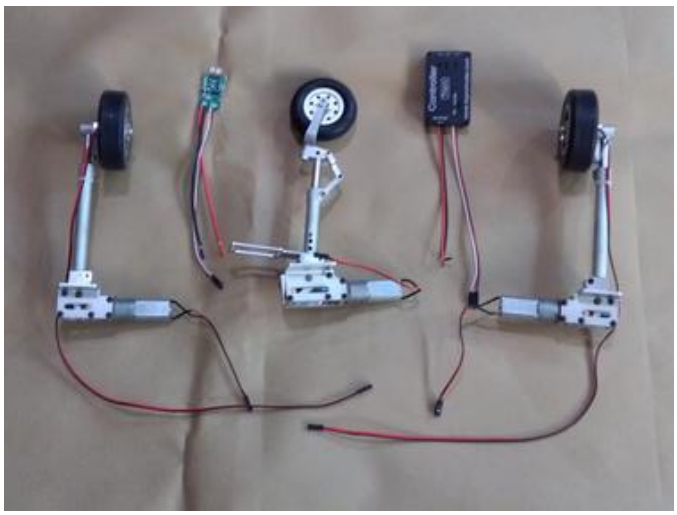
33.Connect the servo arm to the rudder fiber horn .



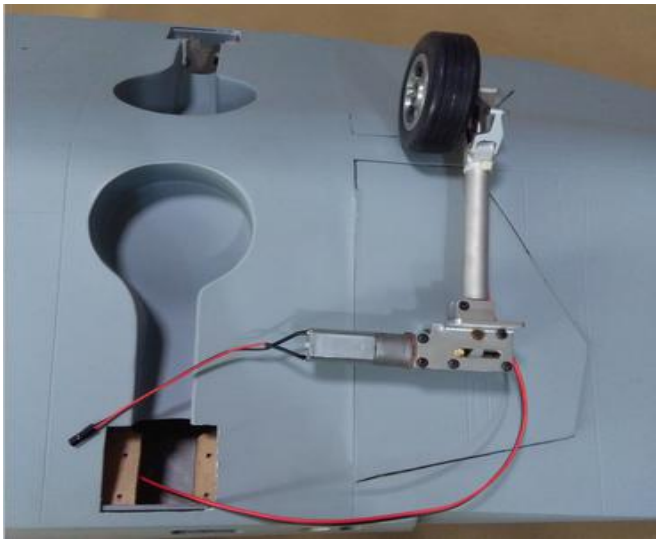
Accessory part lists for retract installation(Optional and need purchased separately).

Screw (3x10mm)	4
Nylock nut (3mm)	4
TP screw (3x14mm)	12
Screw (2x12mm)	2
Nylock nut (2mm)	2
Clevis (2mm)	2
Push rod (2X100mm)	2
Nylon retainer	2
Cable tie	4

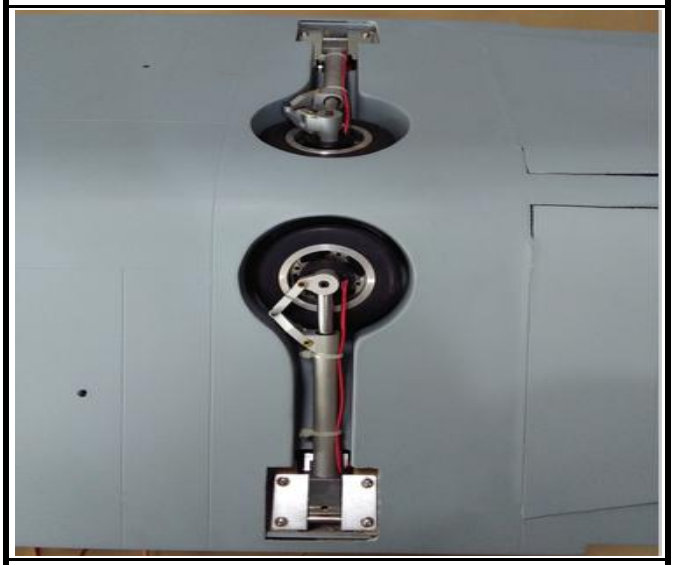
34.The sketch map of the electric retract system (Optional and need purchased separately)



35.Assemble the retract to the fuselage with screws.



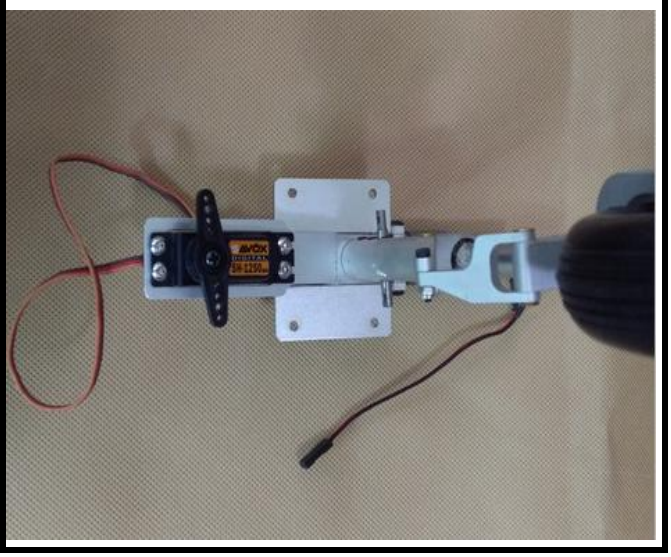
36.The sketch map after the main retracts assembled completely.



37.The sketch map of the nose gear and nose gear servo parts.



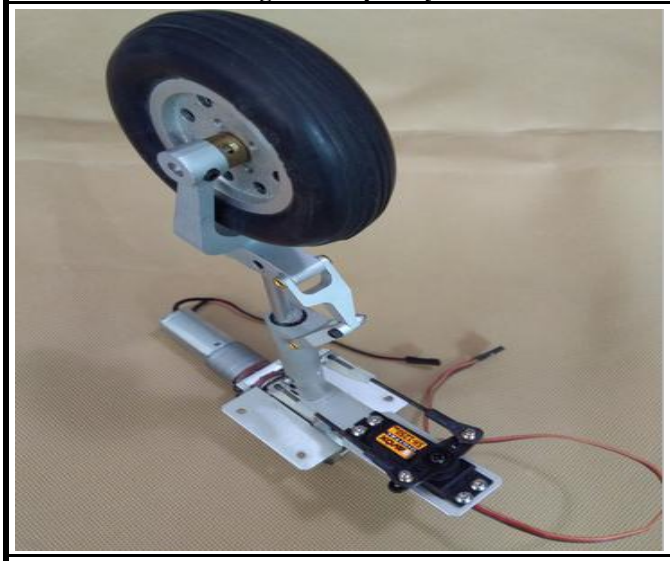
38.Assemble the nose servo to the nose gear.



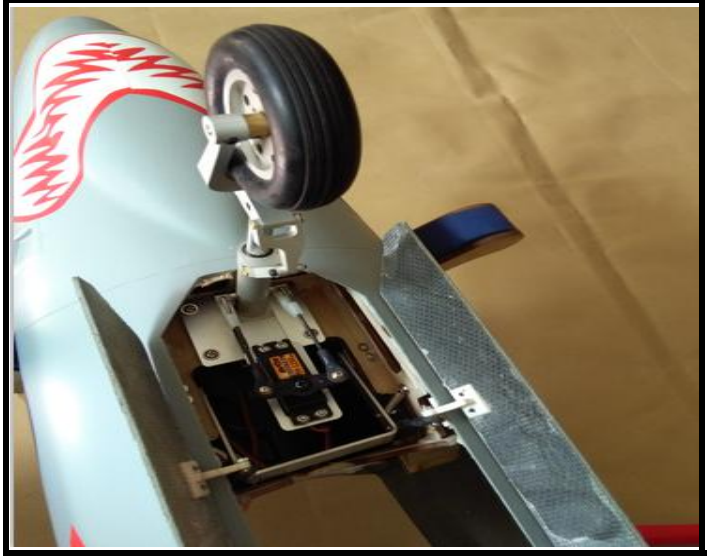
39. Bending the push rod to a propriate angle and assemble them to the retainers .



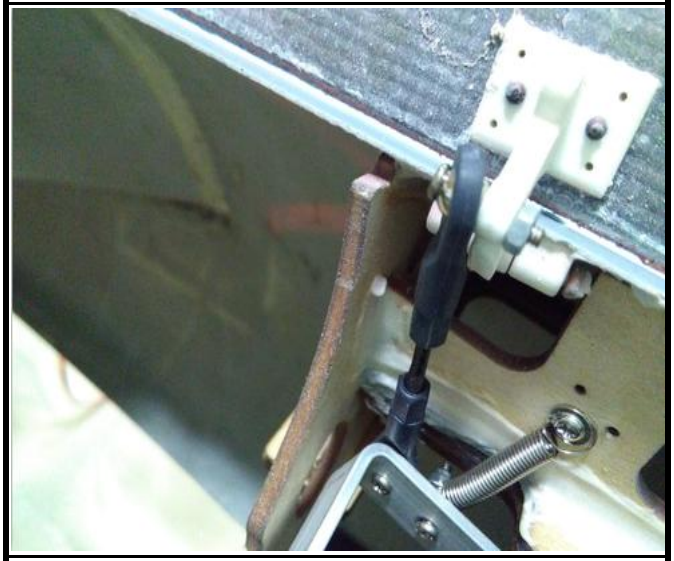
40.Assemble the nose gear completely.



41.Assemble the nose gear to the fuselage with screws.



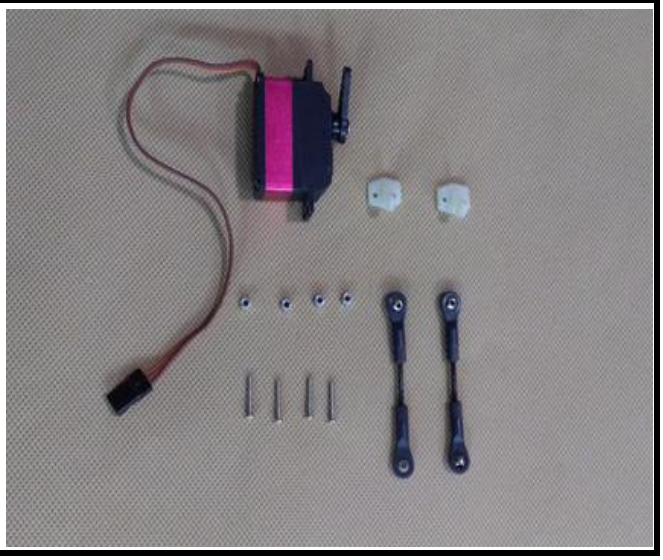
42.Connect the clevis to the hatch hinge with screws and nuts.



43.Connect the clevis to the hatch hinge with screws and nuts.



44.The servo parts for the air brake.



45.Assemble the nylon horn to the air brake inner side, assemble the air brake servo to appropriate position in the fuselage, connect the horn to the servo arm with push rod.



46.Glue the tube to the vertical fin tightly.



47.Offer the glue to the surface of the vertical tail section.



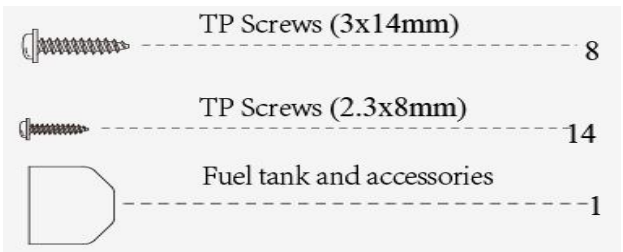
48.Put the fin bolt into the vertical fin.



49.Glue the vertical tail parts to the main fuselage tightly.



Accessory part lists for fuel tank installation.





50.Assemble the turbine and tail pipe to the fuselage.



51.Fuel tank ready.



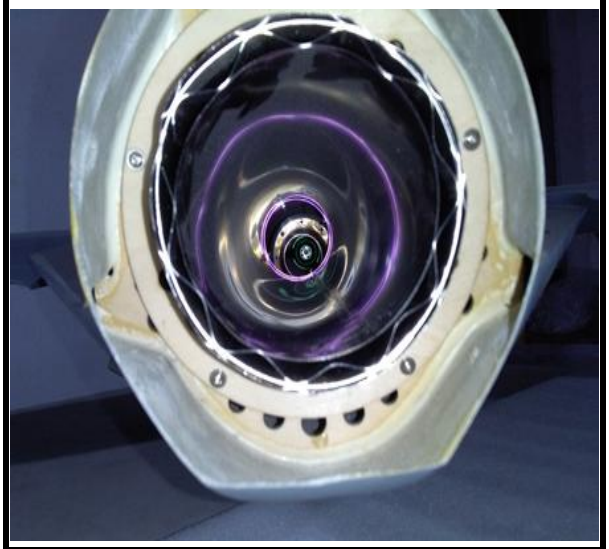
52.Fix the fuel tank to the fuselage.



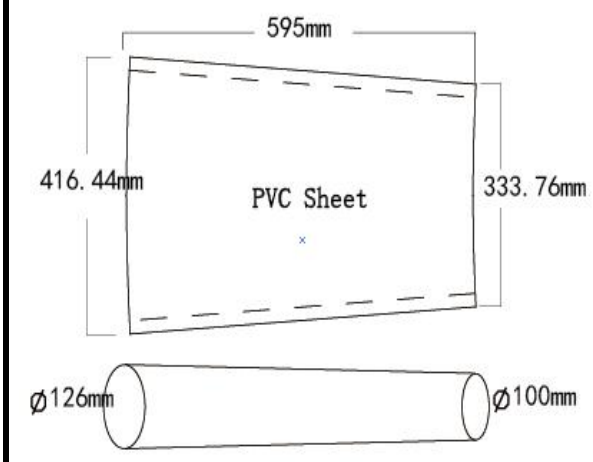
53.Prepare the tail pipe mount.



54.Fix the tail pipe to the tail pipe mount.



EDF installation steps for reference (All the devices and accessories need purchased by customer himself) First prepare a 0.6mm PVC Sheet, cut the sizes as the picture below and glue them up.



55.The sketch map when the PVC sheet glue up.



56. Seal the PVC tube to the EDF and assemble them to the air intake.



57. Mark out the position in the air intake and fuselage where there need to be hollowed.



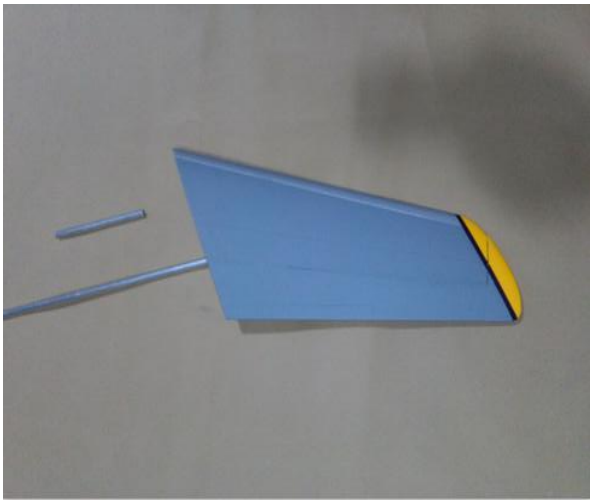
58.The sketch map when after the position hollowed



59.The sketch map after the ESC and battery installation.



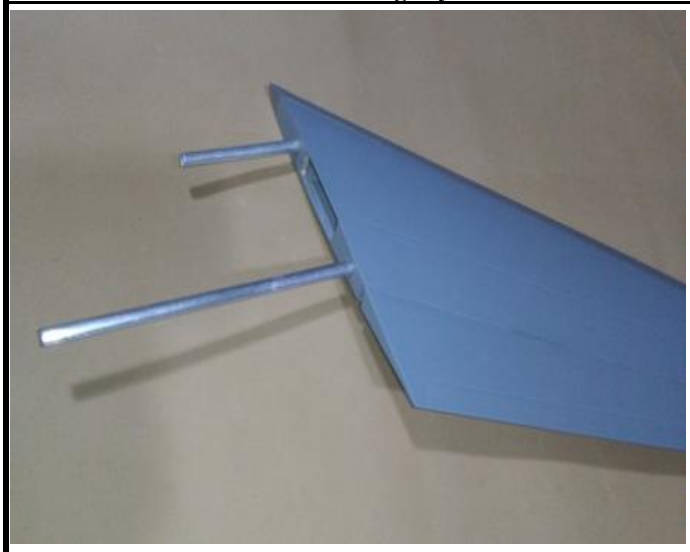
60.Prepare the parts for assemble the stab.



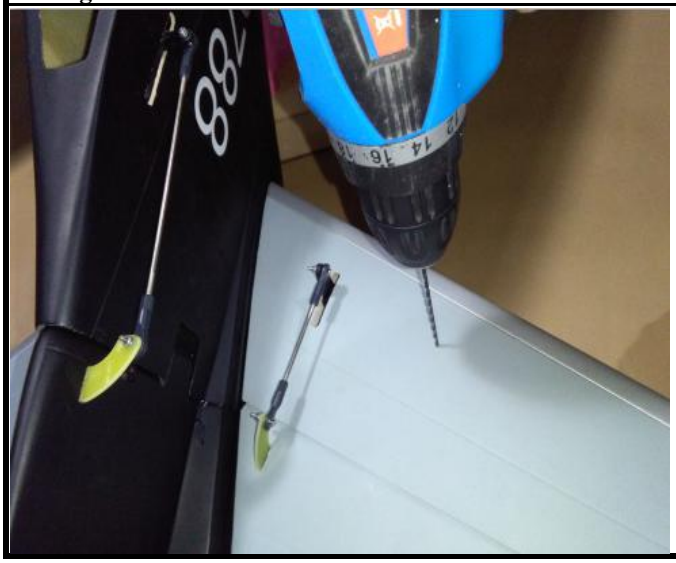
61.Add some glue to the holes of stab.



62.Fix the stab tube to the holes tightly.



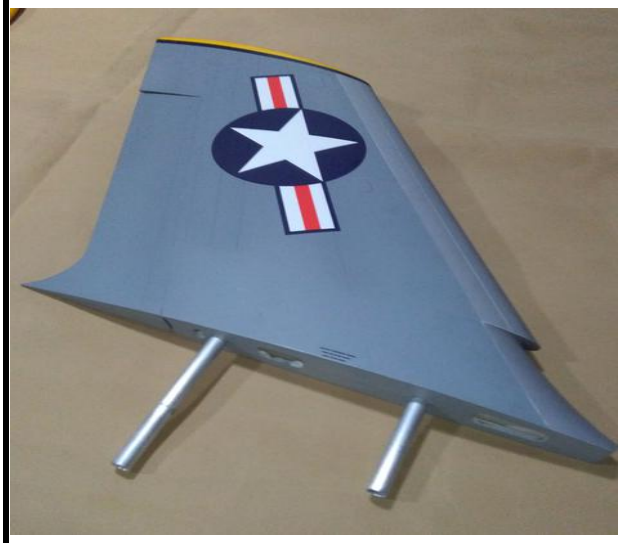
63.Assemble the stab to the fuselage and lock it to the fuselage with screws.



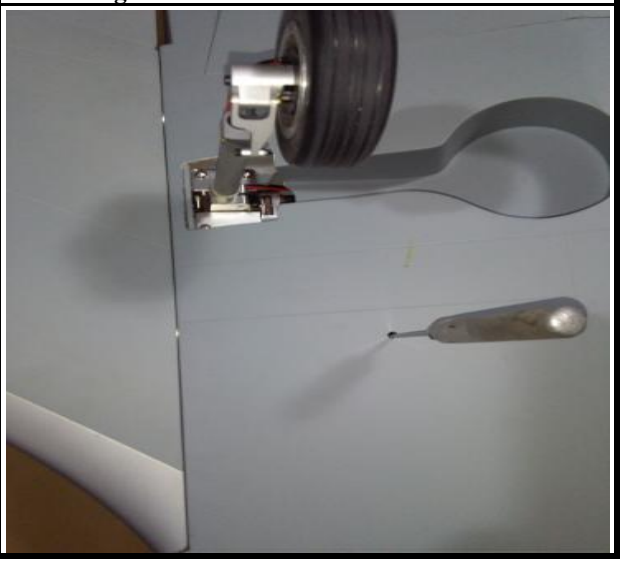
64.Add some glue to the holes of wing.



65.Fix the wing tube to the holes tightly.



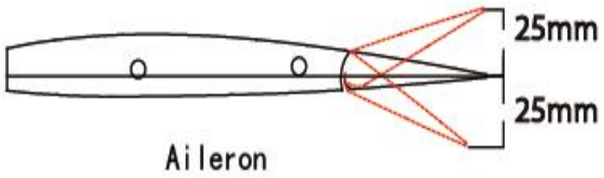
66.Assemble the wing to the fuselage and lock it to the fuselage with screws.



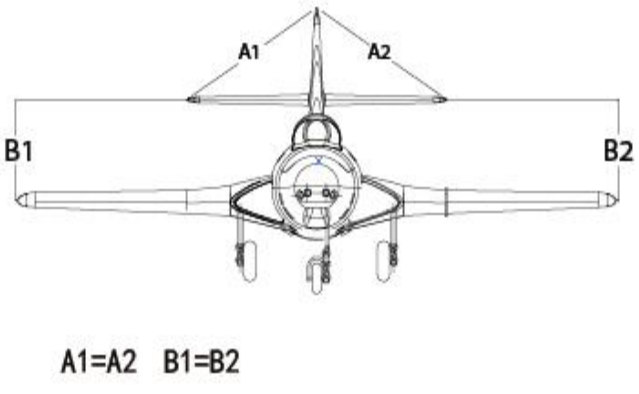
The schetch map once the model completely assembly.



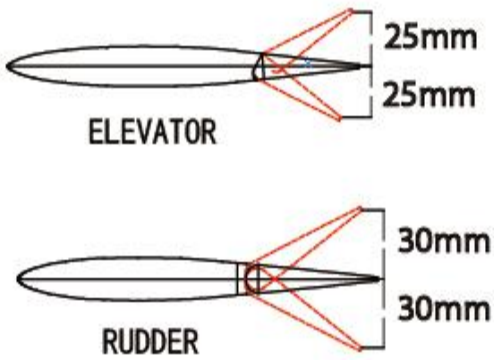
67. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities.Readjust according to your needs and flight level.



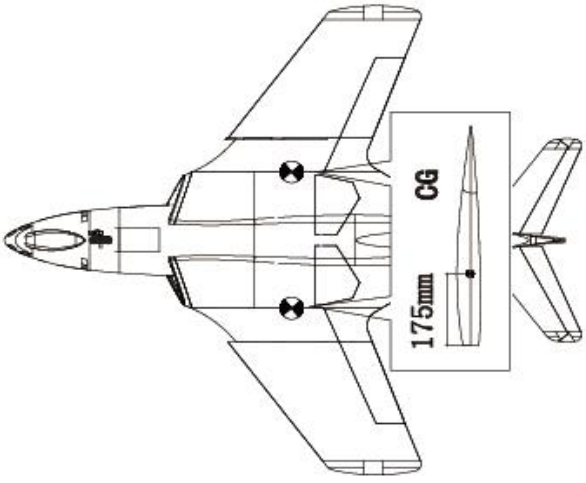
68.Check all the datas well. make sure all sections glue tightly. Otherwise if coming off during flights, you'll lose control of your airplane which leads to accidents!



69. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities.Readjust according to your needs and flight level.



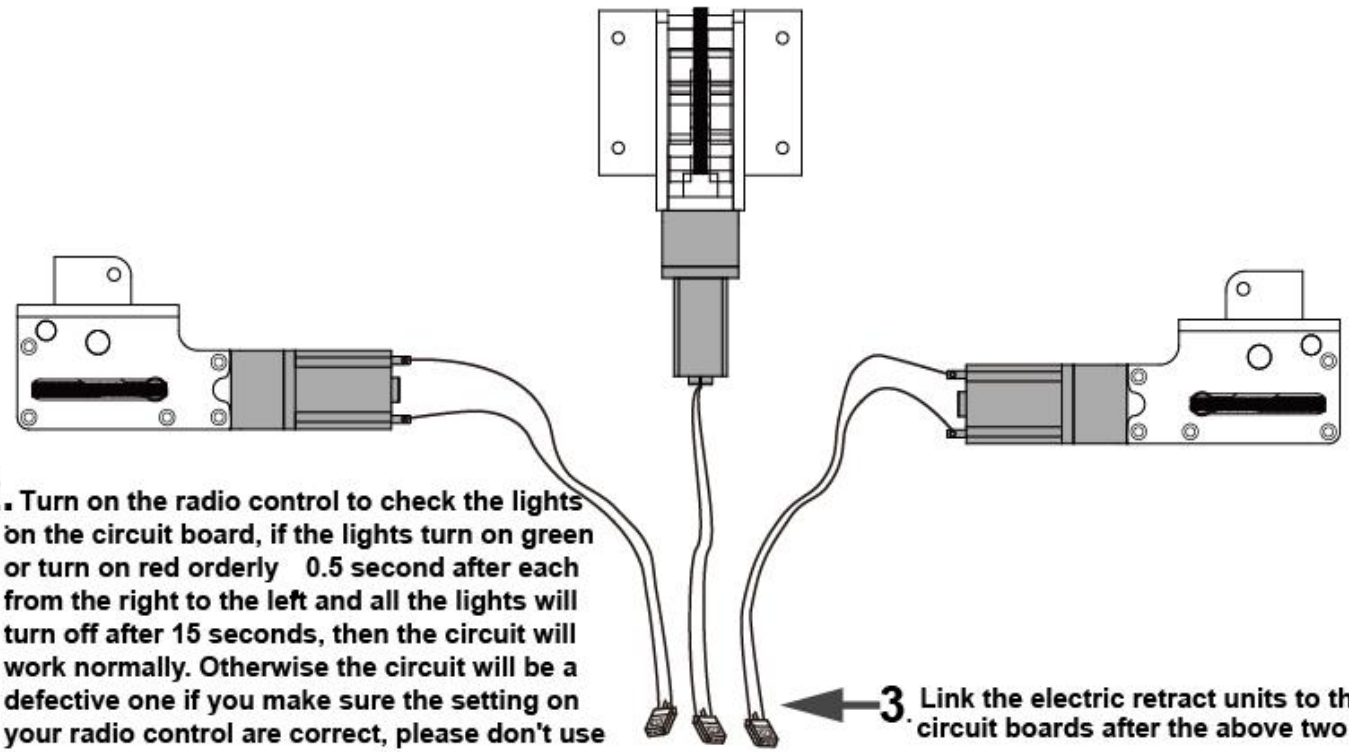
70.C.G: Never fly before checking the CG's required position. Never fly the model without well balancing.



Electric retract system

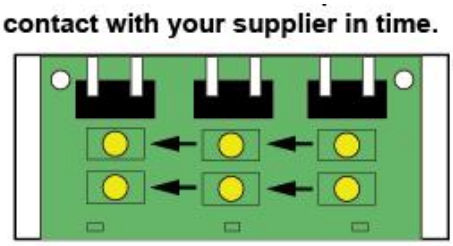
Thank you very much for purchasing our TRCM optional electric retract set, all our products were passed strict QC before they shipped out to the customers. In order to avoid probably trouble happen, we still would like you to follow the steps below before you assemble our electric retracts to your plane.

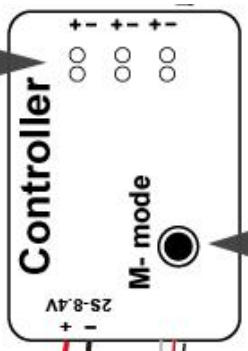
1. Connecting the circuit board to the battery and receiver.



2. Turn on the radio control to check the lights on the circuit board, if the lights turn on green or turn on red orderly 0.5 second after each from the right to the left and all the lights will turn off after 15 seconds, then the circuit will work normally. Otherwise the circuit will be a defective one if you make sure the setting on your radio control are correct, please don't use it but contact with your supplier in time.

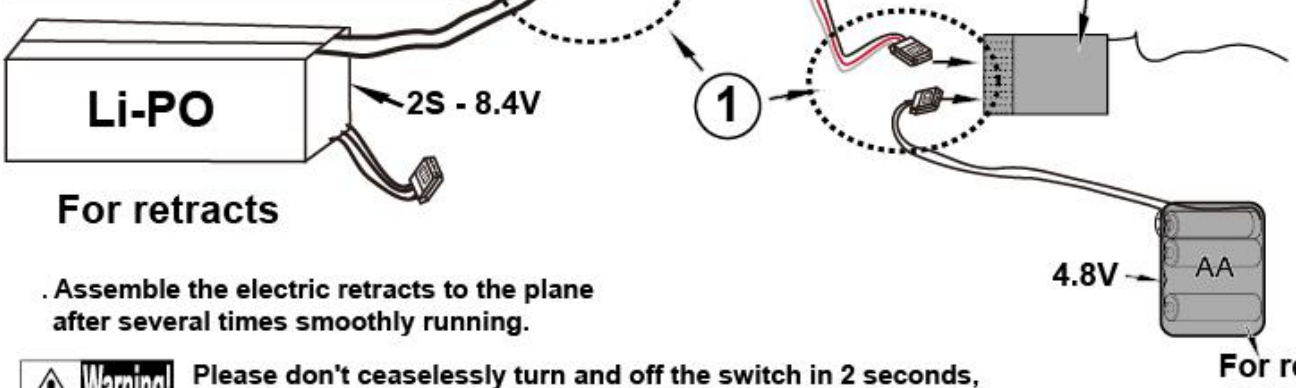
3. Link the electric retract units to the circuit boards after the above two steps, check again the electric retracts to see if they can work normally or not.





4 The M-mode buttom can be used for testing the e-retracts without remote control nor receiver.

In order to let the customers have more choices, we don't provide a uniform plugs.



. Assemble the electric retracts to the plane after several times smoothly running.

Warning! Please don't ceaselessly turn and off the switch in 2 seconds, if you do this way, the circuit board will be heated.

TopRCModel-USA.com