

4-Max F3P-840, Assembly Instructions



Specifications

Type	F3P (indoor and outdoor)
Material	EPO Foam
Wingspan	480mm / 33"
Length	950mm / 37.4"
Flying Weight	Approx 365g (12.9oz) (Inc 3S 800mAh battery)
Skill Level	Intermediate/Advanced



Many thanks for purchasing the 4-Max F3P-840 Kit from 4-Max Models. We hope you enjoy your new model.

At 4-Max Models, we like to offer competitive prices, good performance, and products that you can setup and use with ease. That's why we have extensively researched and tested this airplane and suggested all the products necessary for you to have a great performing aircraft.

By purchasing and/or building this model, the user assumes ALL liability and risk involved with this product. This model should be built and flown by an experienced builder and R/C Flyer.

4-Max Models guarantees this model to be free of defects at the date of purchase. This warranty does not cover any parts damaged by use, modification or crash damage.

In no way shall 4-Max Models liability exceed the original cost of the purchased model. Further, 4-Max Models reserves the right to modify this warranty without notice. 4-Max Models have no control over the final stages of assembly or the materials/glue used for the final assembly.

By the act of using the final product the user accepts all resulting liability.

4-Max Models, as an R/C supplier provides a top-quality model and instructions to complete the model. The quality and flight characteristics of the finished model will depend greatly on how it is built. We cannot guarantee the performance for the completed model and representations are expressed or implied as to the performance of the completed model.

If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately, in new and unused condition for a full refund.

Safety in Assembly

During assembly of this airplane, you will need to use sharp knives and glues. Please follow all safety procedures recommended by the manufacturers of the products you use, and always follow these important guidelines: ALWAYS protect yourself when working with adhesives, knives, or tools. Safety glasses are advised to protect your eyes.

Safety in Flying

This is NOT a toy! It is a high-performance R/C model capable of high speeds and extreme manoeuvres. It should only be operated by a competent R/C pilot in a safe area with proper supervision. ONLY fly your airplane in a safe, open area, away from spectators and vehicles— and where it is legal to fly. Never run your motor inside a house or building with the propeller attached – Remove the prop for safety. Never run the motor on the ground at full or near full throttle for more than 20 seconds. We recommend you get insurance from the BMFA.

 **SAFETY PRECAUTIONS** This radio control model is not a toy.

- First-time builders should seek the advice of experienced modellers before commencing assembly and if they do not fully understand any part of the construction.
- Assemble this kit only in places out of children's reach!
- Take enough safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

 **WARNING:**

Choking hazard! This product contains small parts. NOT suitable for children under 3 years. Contains electrical components and should be kept dry at all times. Regularly check the battery charger wires, plugs and shell and other components for damage. DO NOT use if any part is damaged.

**Caution
proceeding**

1. Detachable small parts should be stored safely and out of reach of children.
2. If interference is experienced, turn the model off and try it again in a different area
3. Remote control will not function correctly if the batteries are low. Please replace the batteries.
4. Please discard old/used batteries in a safe manner. Consider your environment!
5. Please store the remote control in cool, dry place.
6. DO NOT expose to fire or high temperatures, moist storage.
7. Should the battery get wet, wipe immediately with a soft dry cloth. If transformed, please stop usage.

Battery use caution proceeding

1. Model uses a set of Li-Po 11.1V rechargeable batteries.
2. Please pay attention to correct polarity when replacing batteries.
3. Rechargeable batteries should be charged under adult supervision.
4. DO NOT use a mix of old and new or different types of battery.
5. After the battery is exhausted, the model should be removed.
6. DO NOT short circuit any terminals.
7. DO NOT attempt to recharge non rechargeable batteries.
8. Remove batteries from the model when recharging.
9. DO NOT put batteries into a fire or into water.
10. The rated input voltage battery charger MUST be suitable for your mains power voltage.
11. During charging it is quite normal for the charger and batteries to heat up.



Required Items

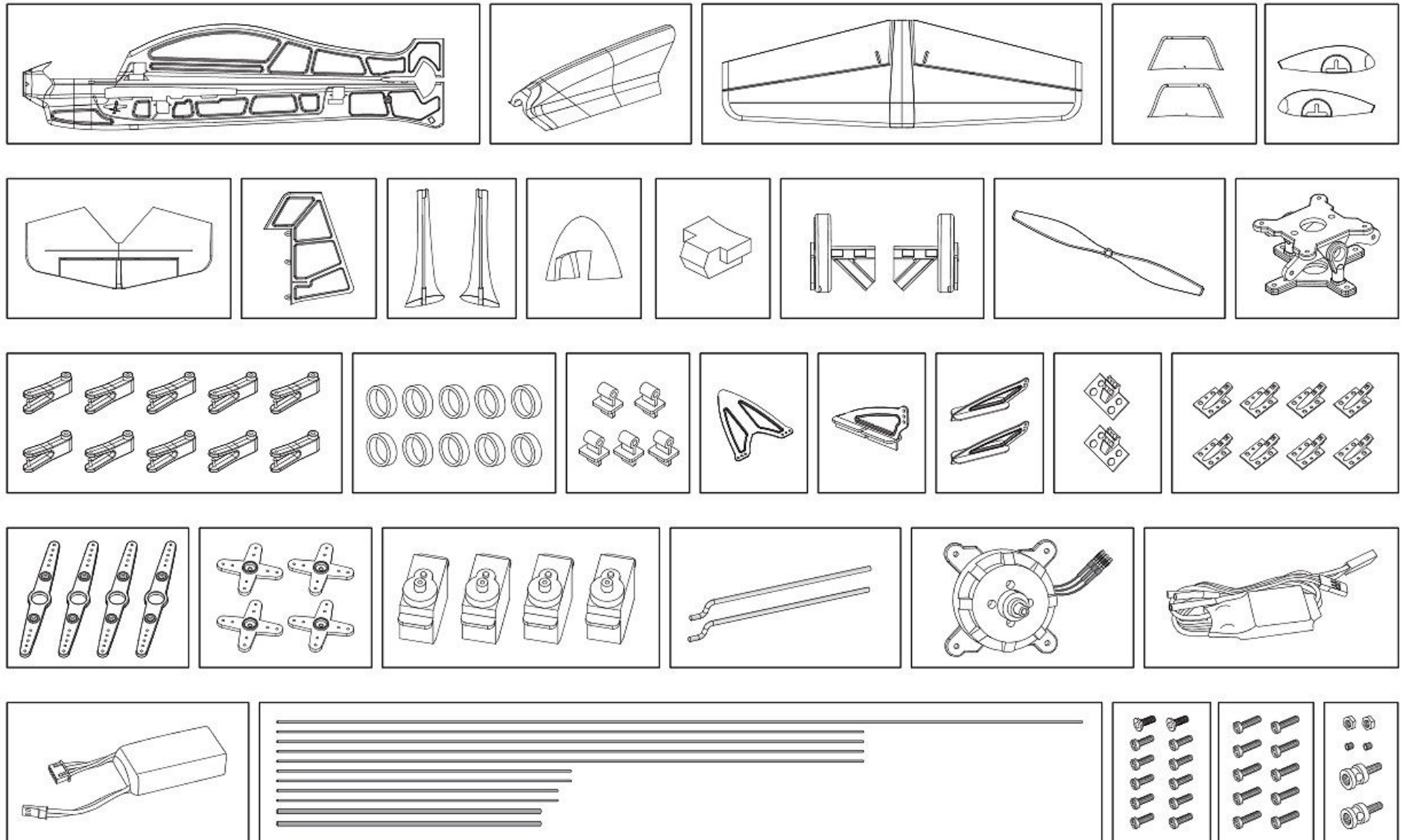
- Foam Safe Glue Recommended Deluxe Materials Foam 2 Foam and Cyano
- Transmitter and Receiver Minimum 4 channel, 6 is recommended
- LiPo Battery 3S, 800mAh LiPo Minimum 40C, 60C Recommended
- Suitable LiPo charger MUST be LiPo compatible
- Sharp knife
- Small pliers
- Wire cutters
- Petroleum jelly

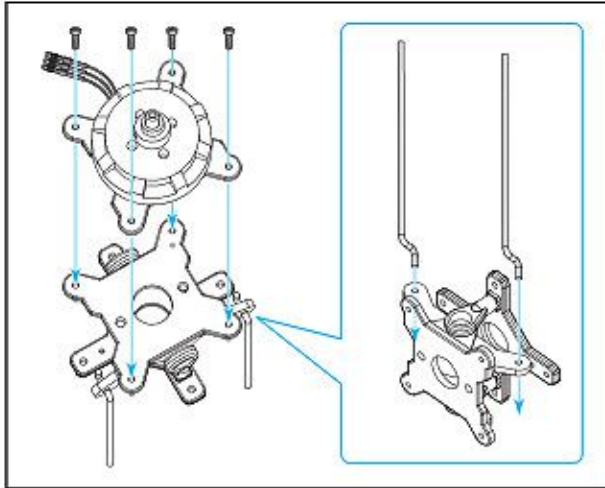
All of these items are available from www.4-max.co.uk

Before Starting Assembly

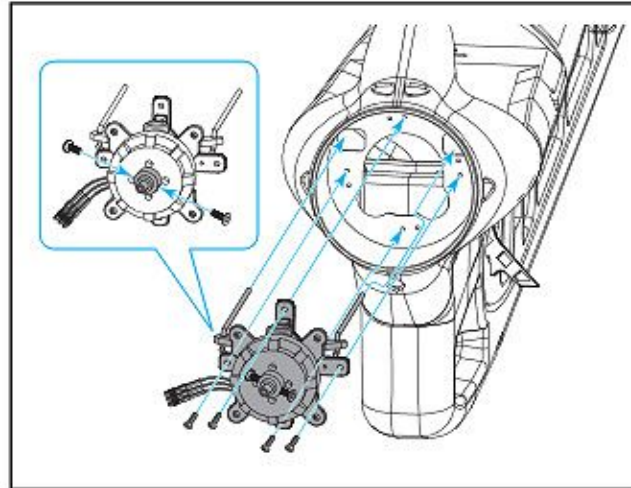
Unpack your model and examine the contents. If you have any missing or damaged items, do not do any assembly and contact 4-Max Models immediately.

Airframe Parts

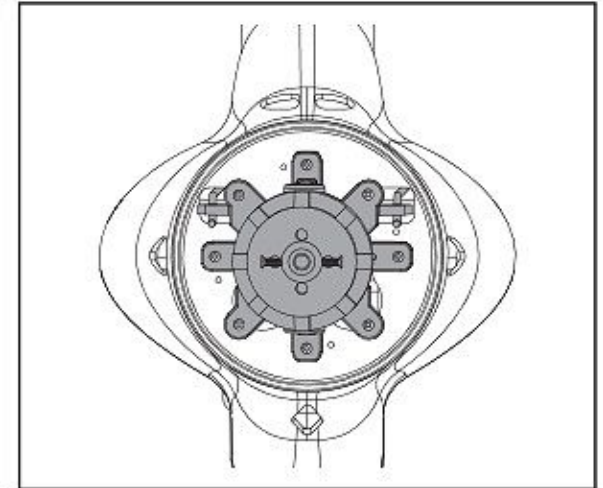




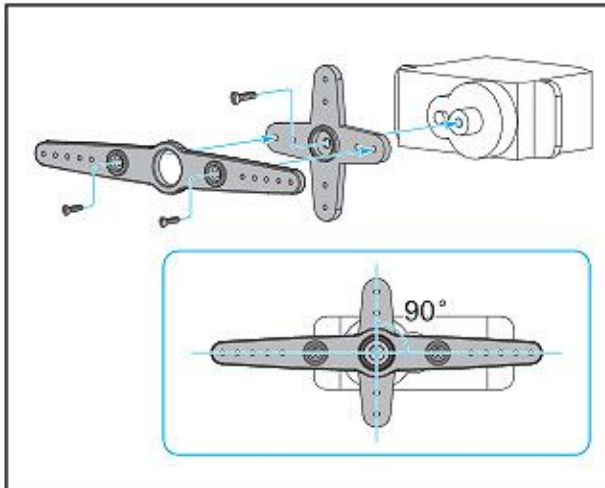
(1). Install two pullrods into motor frame, then install the motor into the motor frame. Lock the motor by 4pcs screws, using cross head driver.



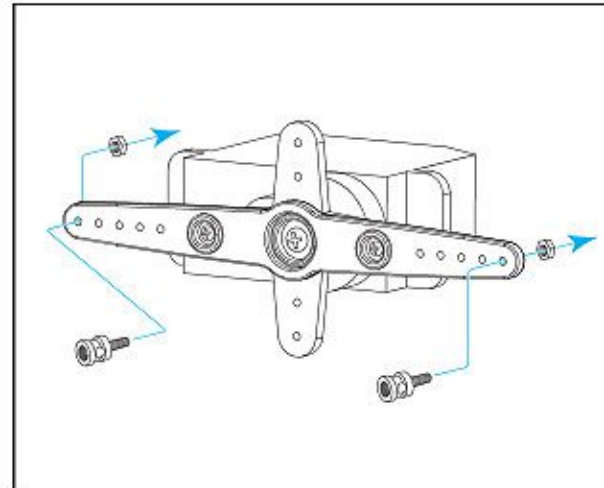
(2). Put 4 screws into the holes of motor frame, then lock the motor frame on the airplane head by screwing the 4pcs screws clockwise, using cross head driver.



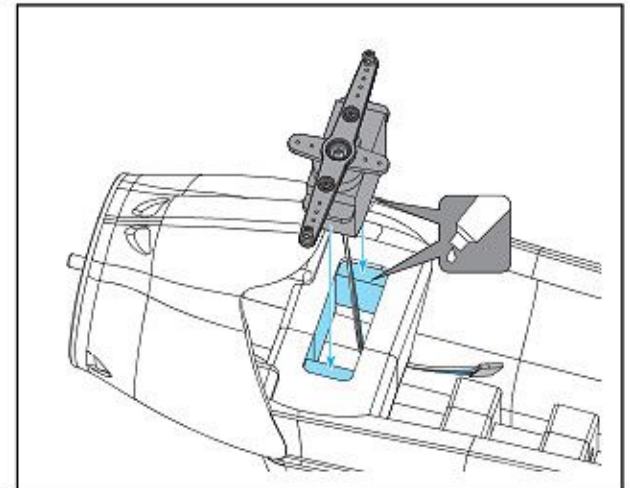
(3). Motor and motor frame install successfully as shown in figure.



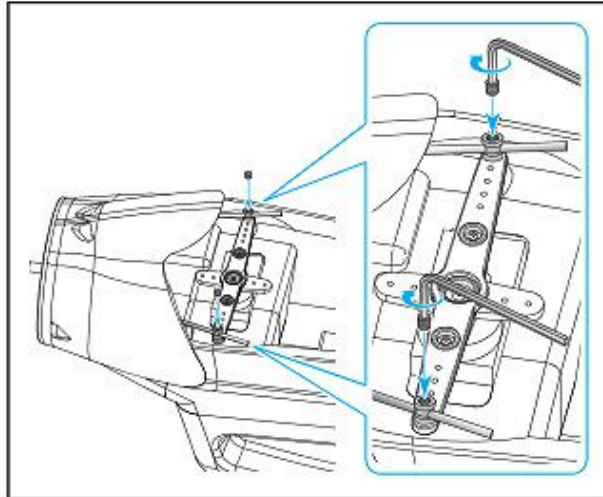
(4). Install and screw the servo arms on the servo by cross driver clockwise as shown in figure.



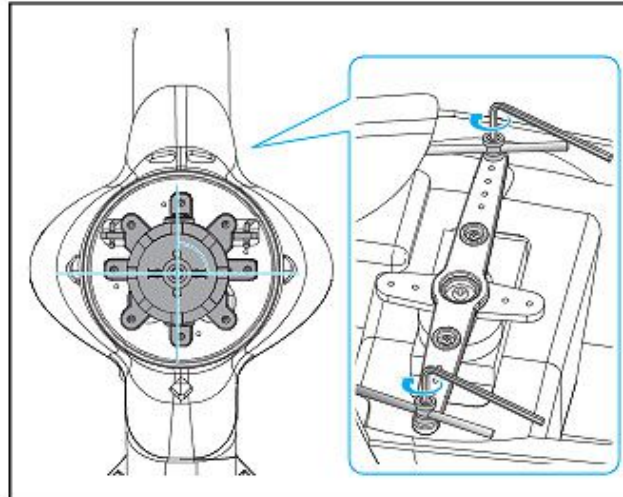
(5). Install fixed pillars on the servo holes. (if two tight of the servo hole, you can adjust the hole by some tools.)



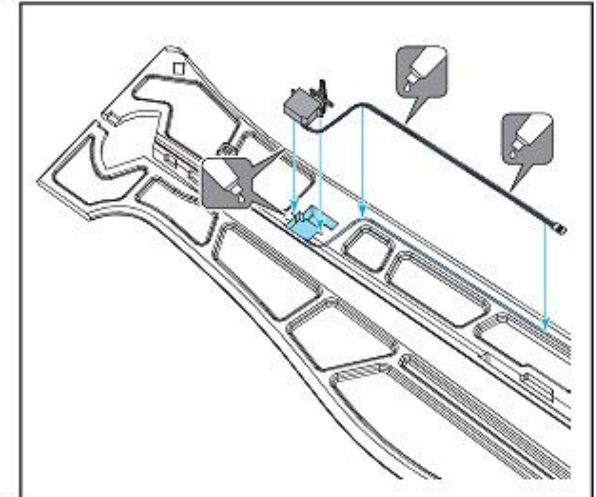
(6). Paint foam glue on the servo and servo seat, then put the servo into his seat as shown in figure.



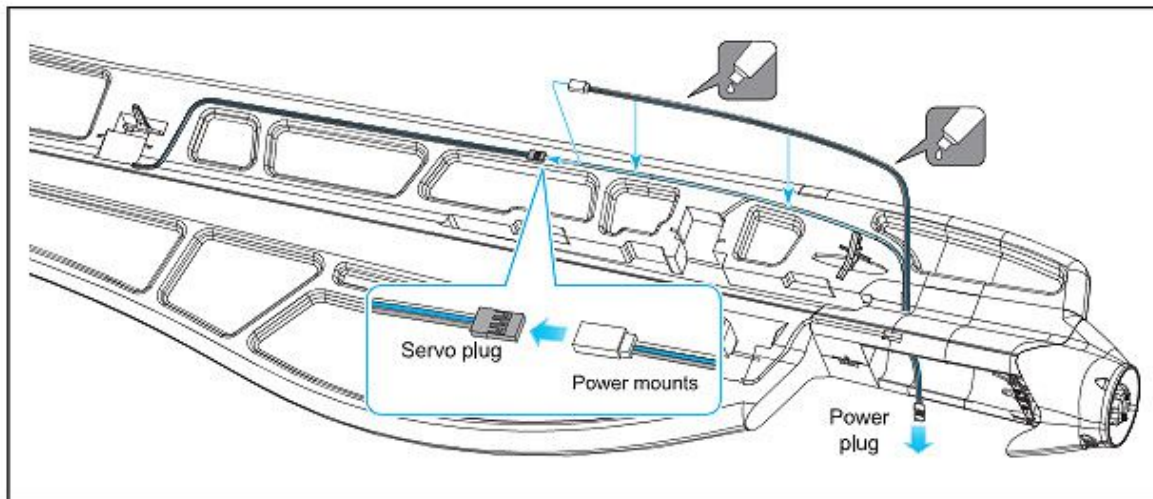
(7). Install two pullrods into the servo arms holes, and tight the screws by internal hexagonal wrench. (not too tight)



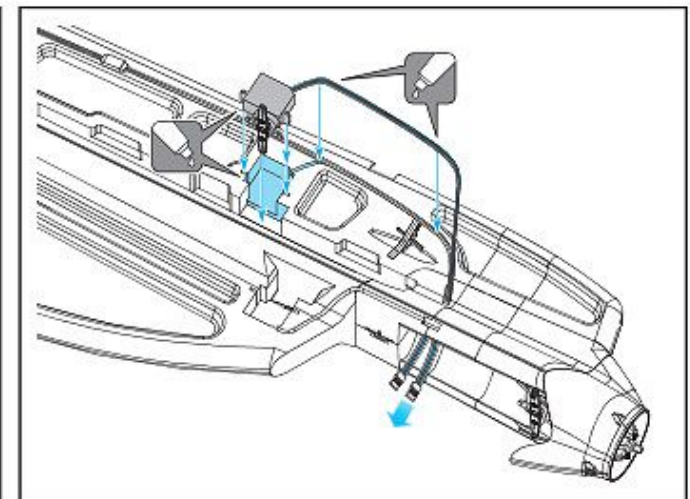
(8). Before screw the pullrods on the servo arms, please adjust the motor in the middle as shown in figure.



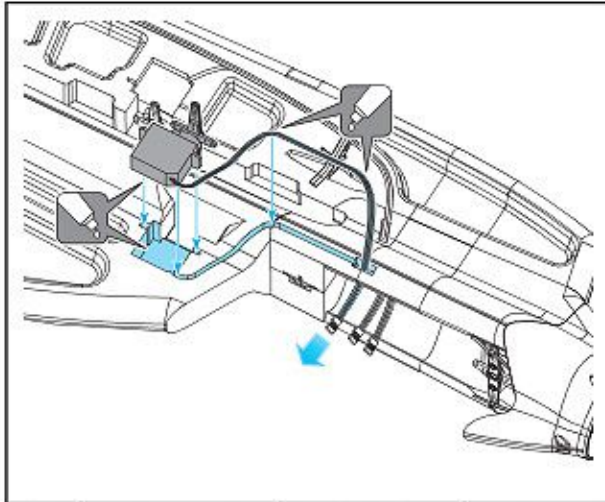
(9). Vertical tail wing servo installation: Paint foam glue on the servo and servo seat, install the servo into its seat, and then lay wire into slot, Paint some foam glue in wire inflection points.



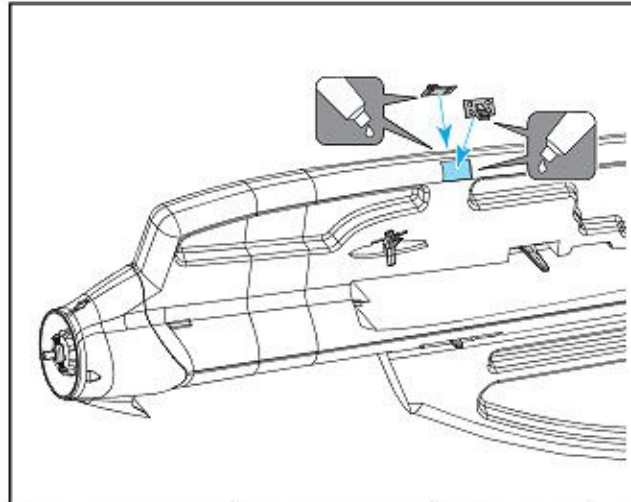
(10). Vertical tail wing servo installation: connect the plug of servo and power wire, then plug in another end of the power cable into the receiver on the airplane, Paint some foam glue in wire inflection points.



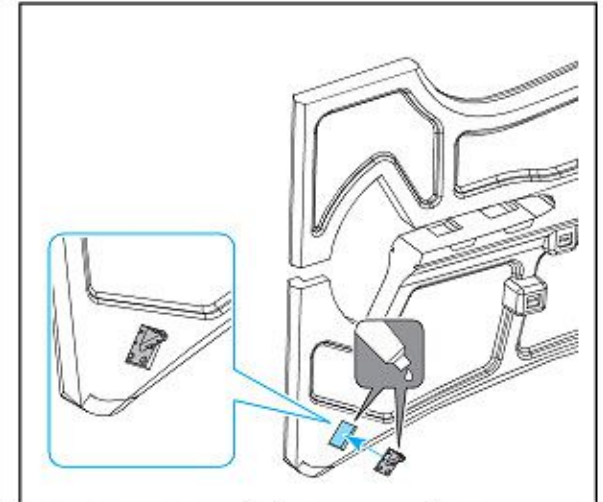
(11). Horizontal tail wing servo installation: Paint foam glue on the servo and servo seat, install the servo into its seat, connect the plug of servo and power wire, then plug in another end of the power cable into the receiver on the airplane. Paint some foam glue in wire inflection points.



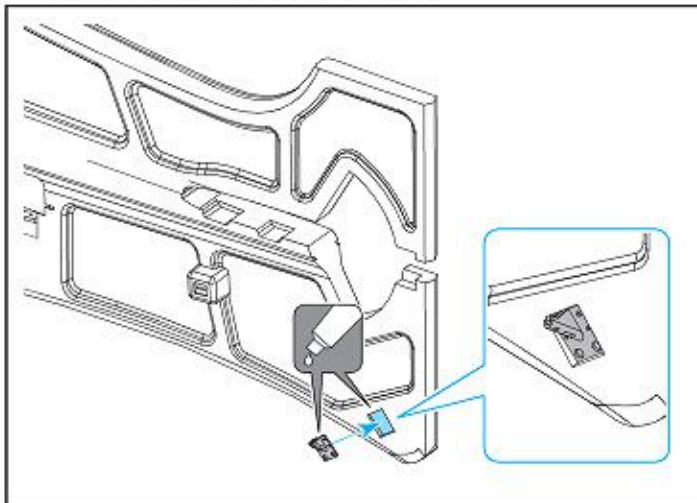
(12). Aileron wing servo installation: Paint foam glue on the servo and servo seat, install the servo into its seat, connect the plug of servo and power wire, then plug in another end of the power cable into the receiver on the airplane. Paint some foam glue in wire inflection points.



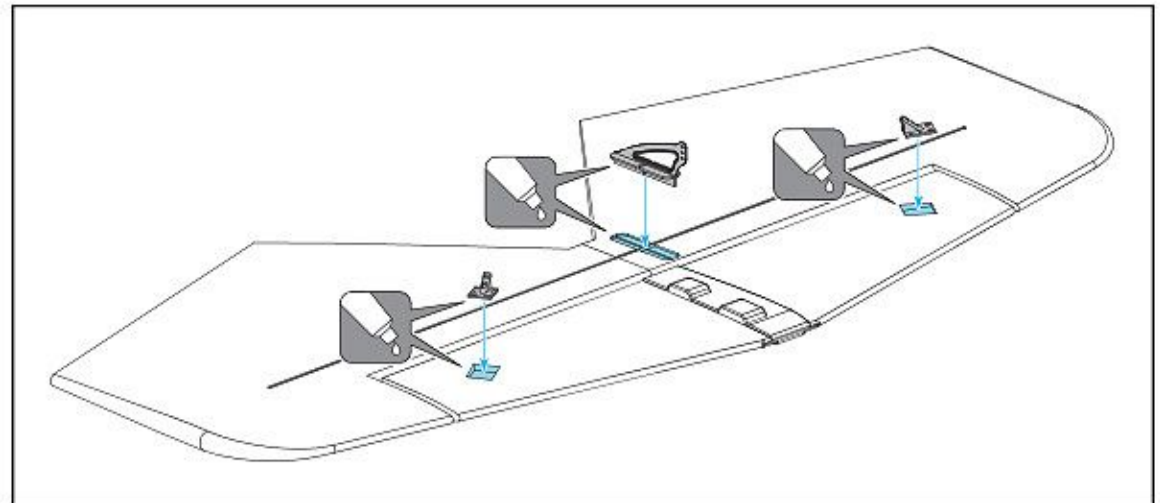
(13). Main wing support plastic mounts on the plane body installation: Paint foam glue on the plastic mounts and its seat, install the mounts into its seat. (please note the mounts direction)



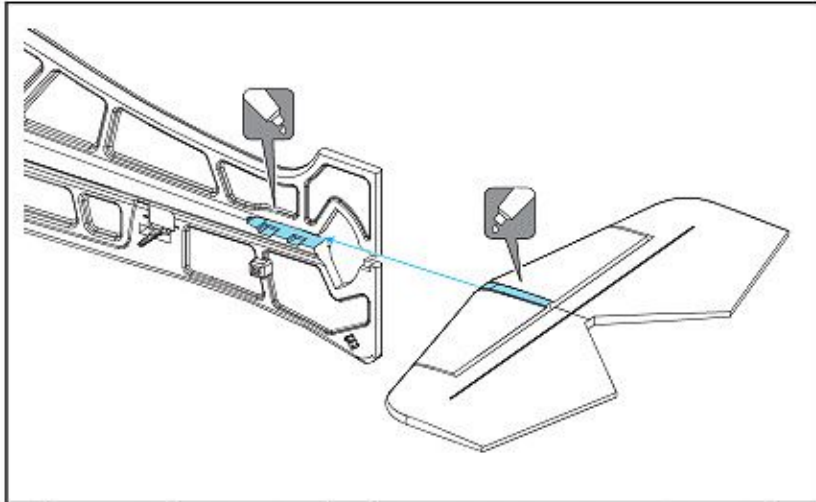
(14). Left side horizontal tail wing support plastic mounts on the plane body installation: Paint foam glue on the plastic mounts and its seat, install the mounts into its seat. (please note the mounts direction)



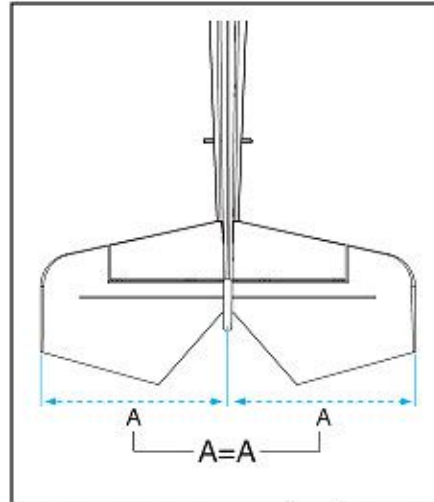
(15). Right side horizontal tail wing support plastic mounts on the plane body installation: Paint foam glue on the plastic mounts and its seat, install the mounts into its seat. (please note the mounts direction)



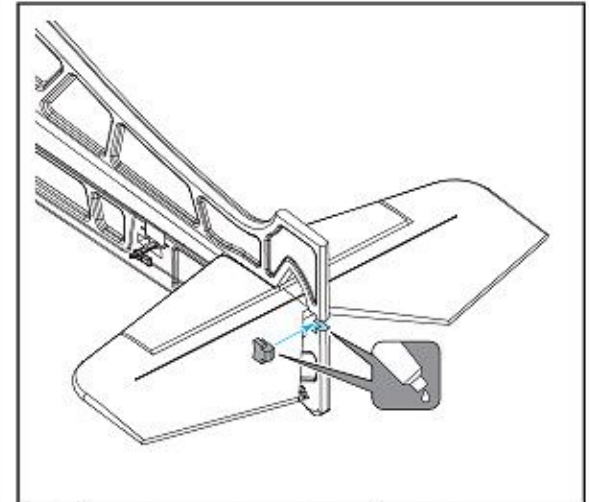
(16). Horizontal tail wing support plastic mounts and servo mounts installation: Paint foam glue on the plastic mounts and its seat, install the mounts into its seat. (please note the mounts direction)



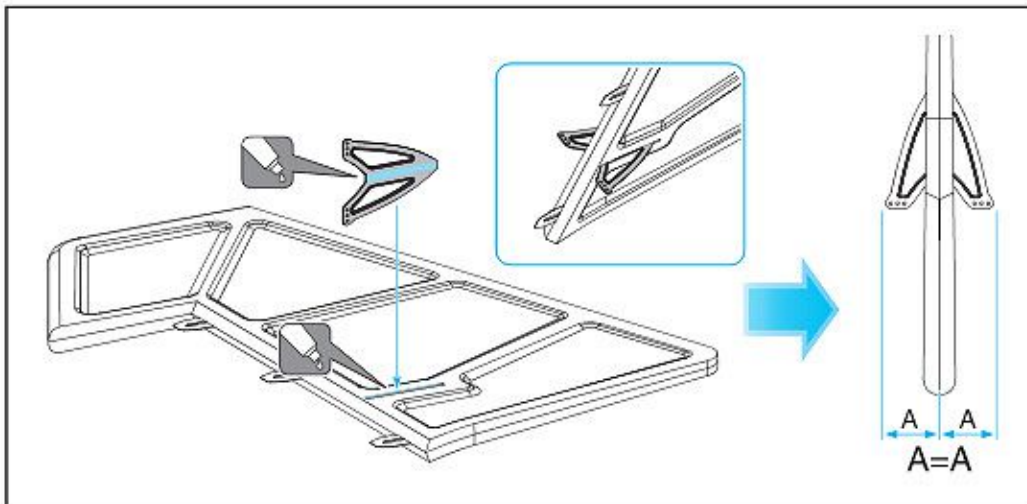
(17). Insert and glue the horizontal tail wing on the body as shown in figure tightly.



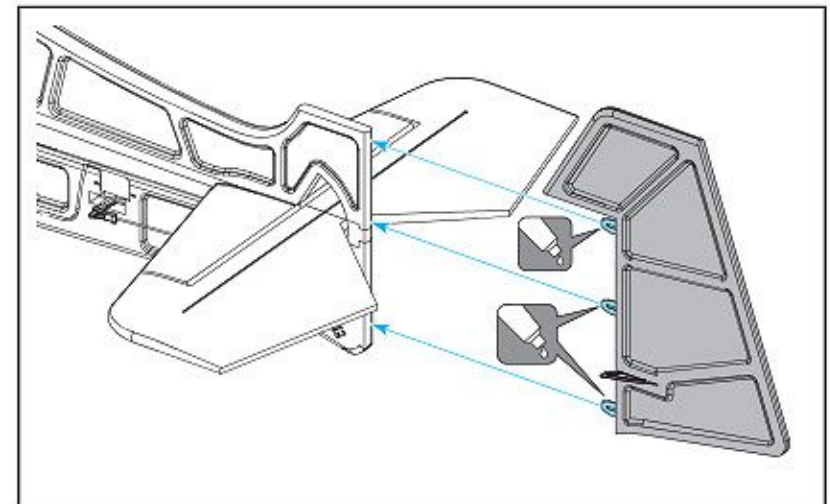
(18). Check if the horizontal tail wing is symmetrical.



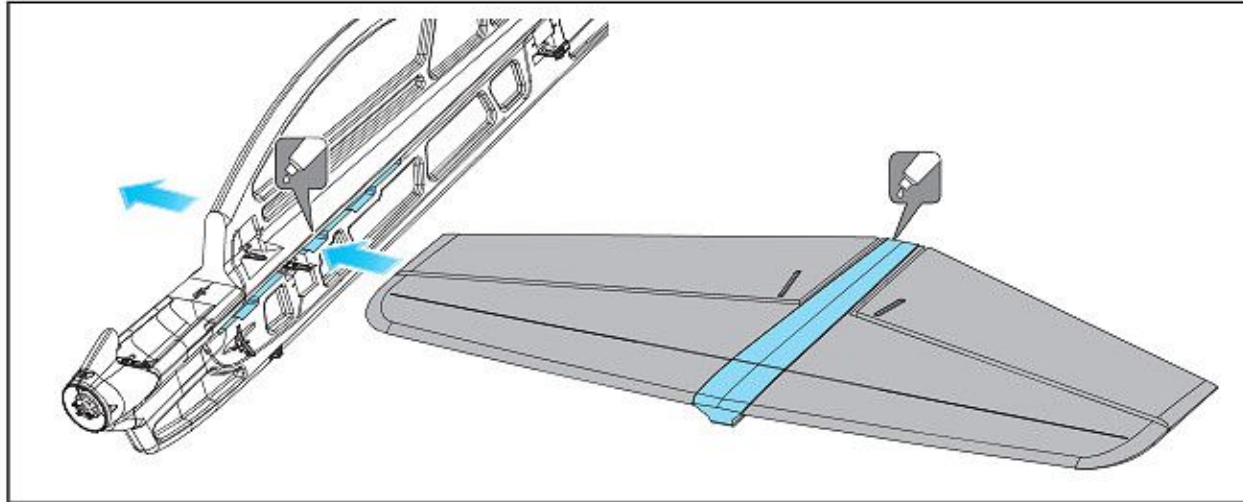
(19). Glue a foam on the end of the plane body. (behind the horizontal tail wing)



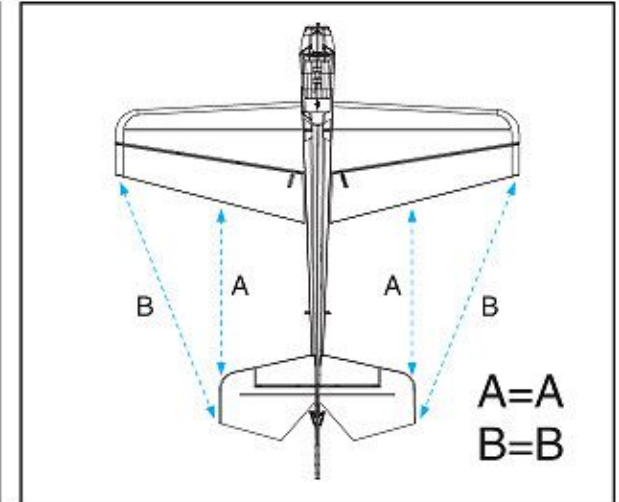
(20). Insert and glue the servo plastic mount into the vertical tail wing. (check two sides if symmetry)



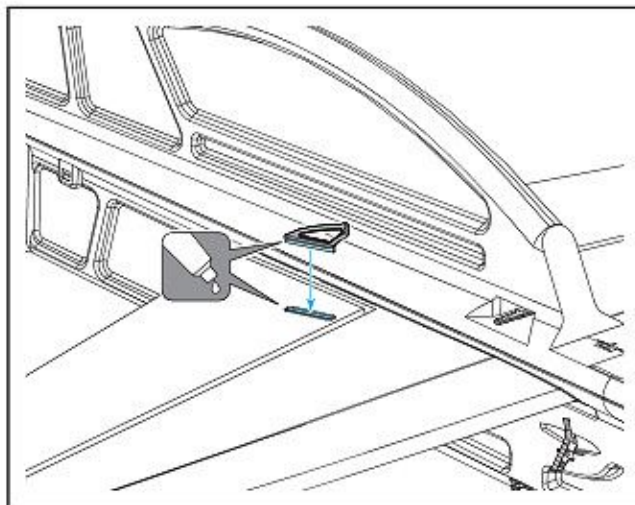
(21). Insert and glue the vertical tail wing on the plane body tightly.



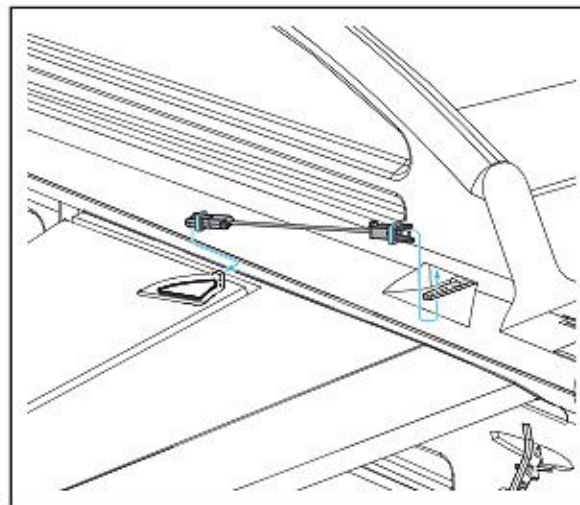
(22). Fix and glue the main wing on the plane body.



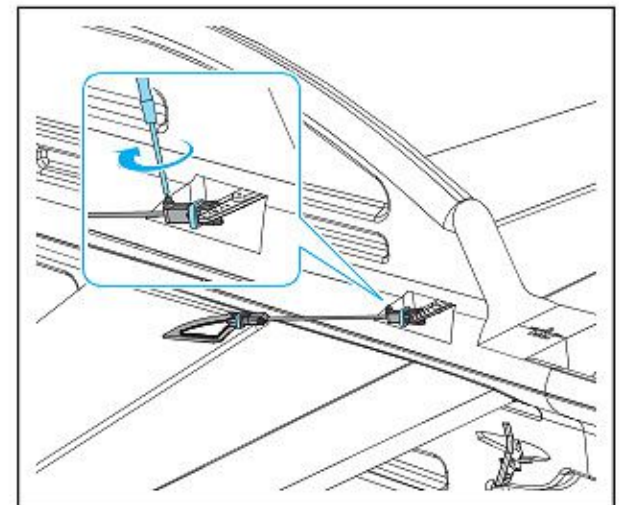
(23). Check all the wings if are fixed symmetrically and vertically.



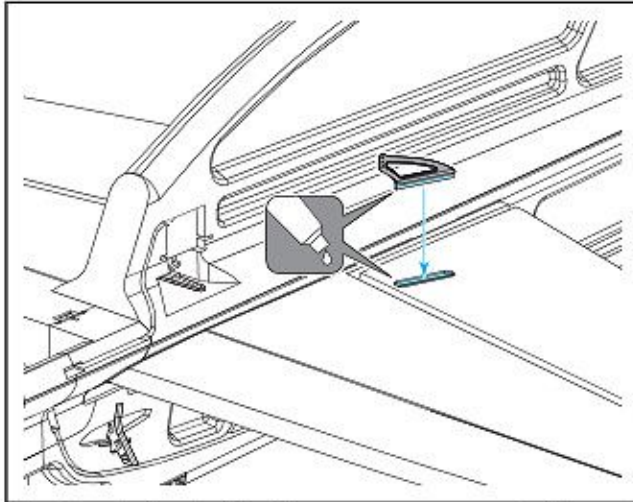
(24). Fix and glue the right aileron servo mounts on its left and right seats separately.



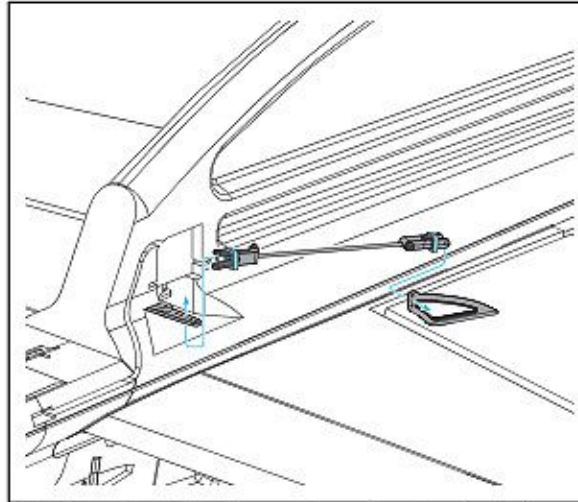
(25). Sheathe rubber ring on the pushrods of right aileron wing, and then fix the pushrods on the body and wing by screws.



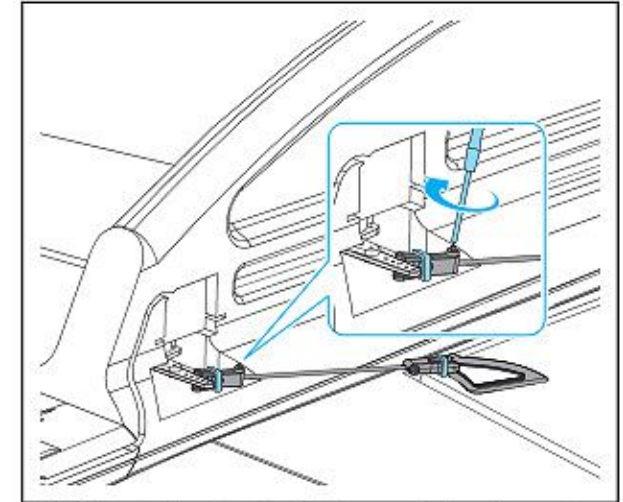
(26). Adjust the length of pushrods to make the aileron wing horizontal, and then fix the screws by cross driver tightly. Finished as shown in figure.



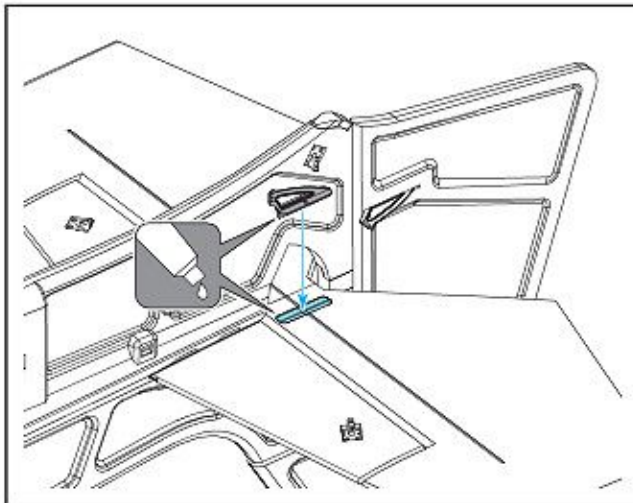
(27). Fix and glue the left aileron servo mounts on its left and right seats separately.



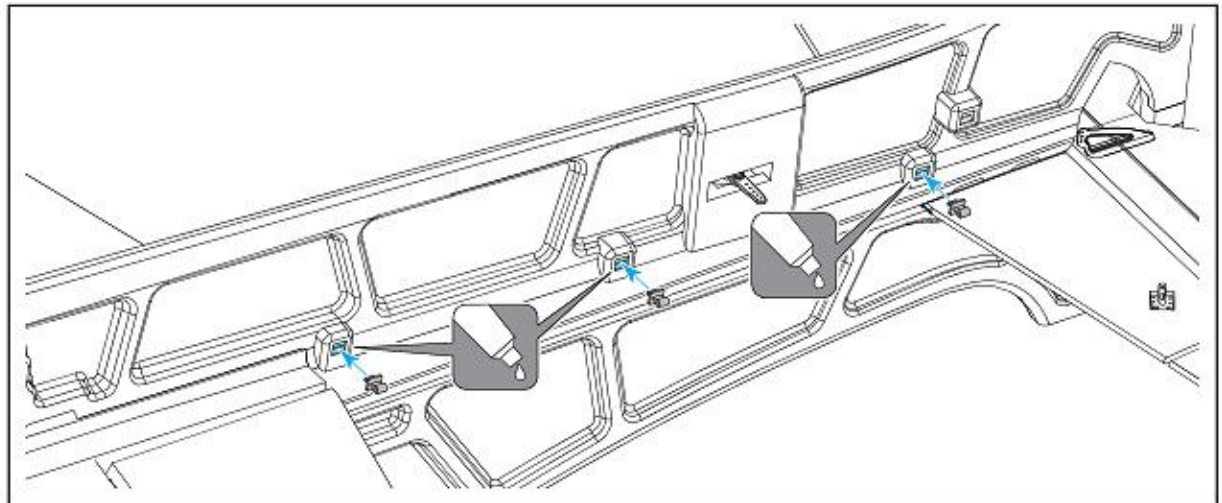
(28). Sheathe rubber ring on the pushrods of left aileron wing, and then fix the pushrods on the body and wing by screws.



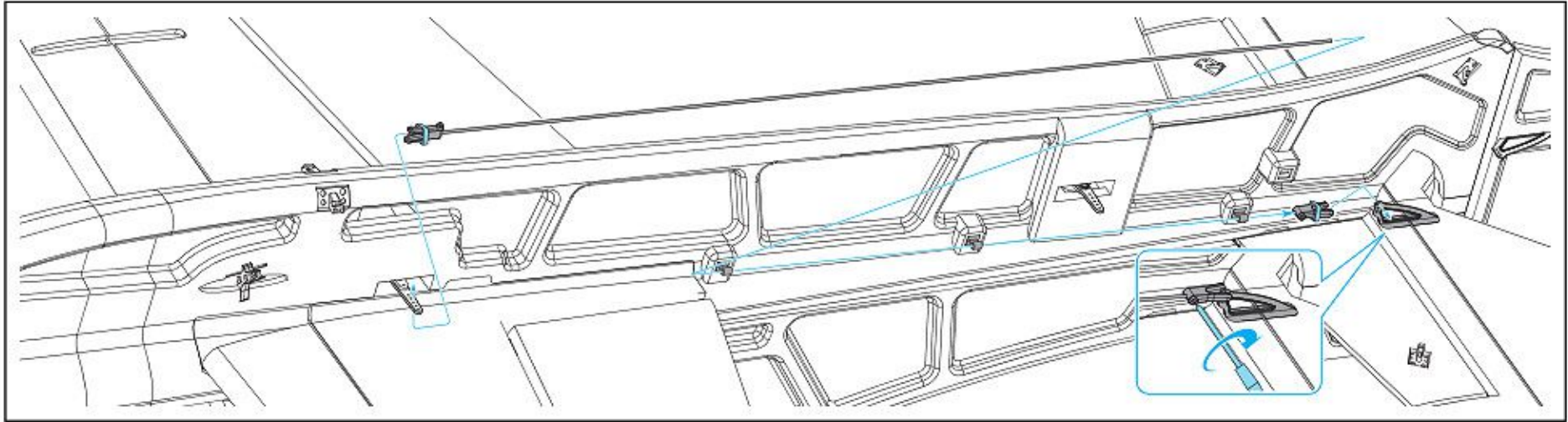
(29). Adjust the length of pushrods to make the aileron wing horizontal, and then fix the screws by cross driver tightly. Finished as shown in figure.



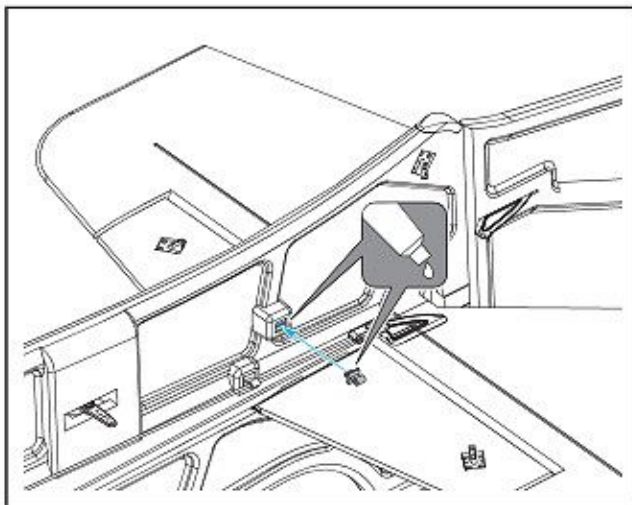
(30). Fix and glue the servo mounts on the horizontal tail wing as shown in figure.



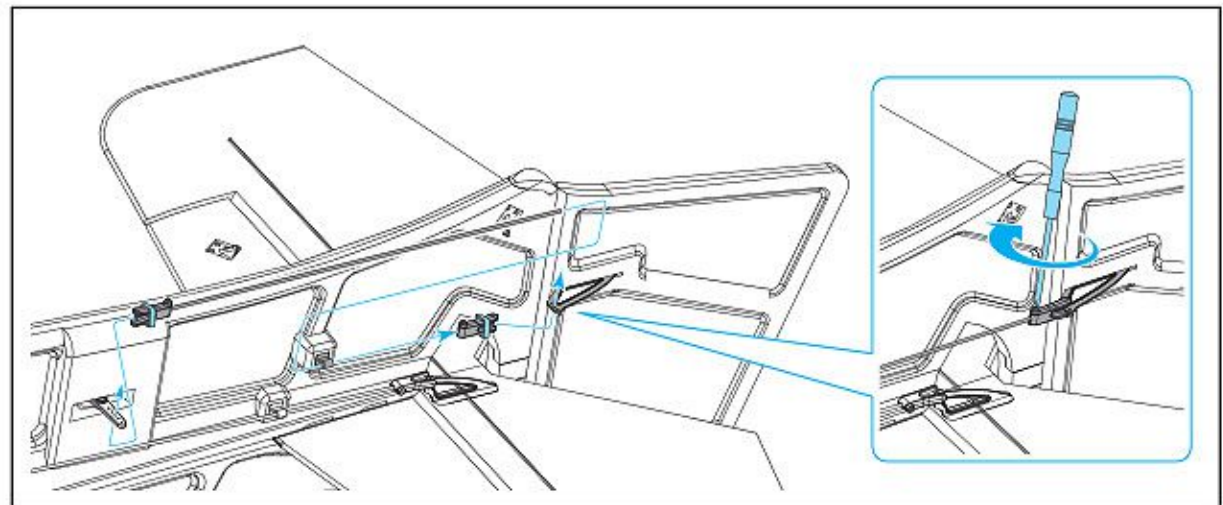
(31). Fix and glue the 3 snap rings on the body as shown in figure.



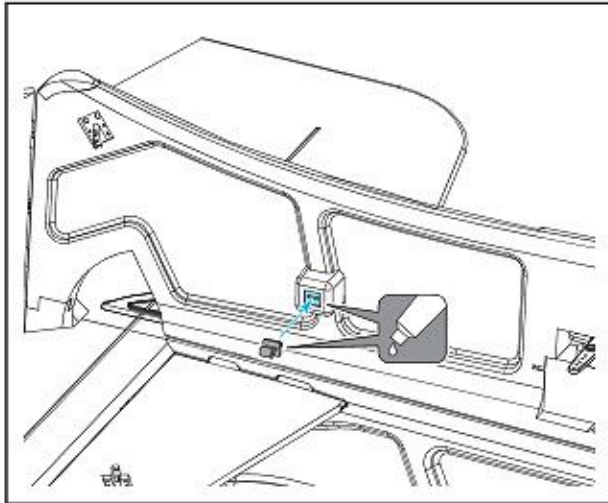
(32). Connect Horizontal tail wing and Servo with pushrod: sheathe grip and rubber ring on one end of pullrod, and another end of pullrod cross 3 snap rings. Then, connect the servo arm and horizontal tail wing servo mounts with the two ends of pullrods.(After assembly, please tight the screws by cross driver to make the horizontal tail wing horizontal.)



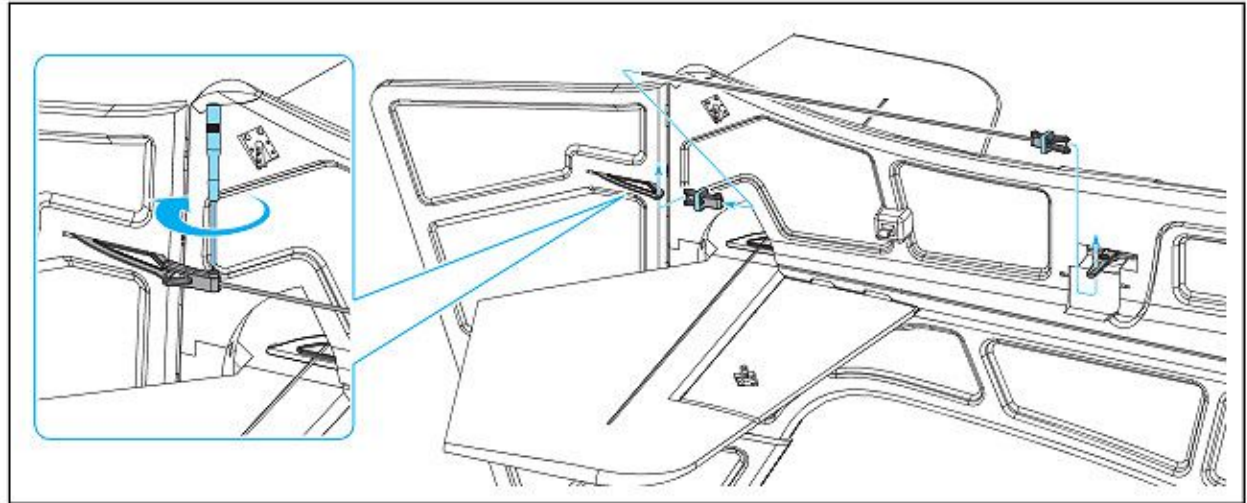
(33). Fix and glue one snap ring on the body as shown in figure.



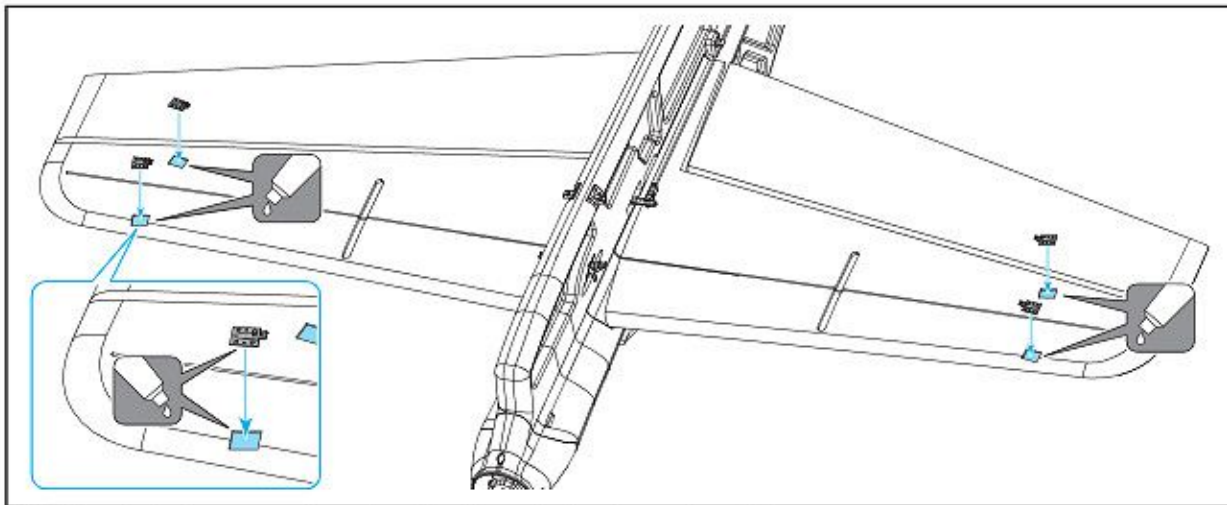
(34). Connect one side Vertical tail wing and Servo with pushrod: sheathe grip and rubber ring on one end of pullrod, and another end of pullrod cross one snap ring. Then, connect the servo arm and vertical tail wing servo mounts with the two ends of pullrods. (After assembly, please tight the screws by cross driver to make the vertical tail wing vertical.)



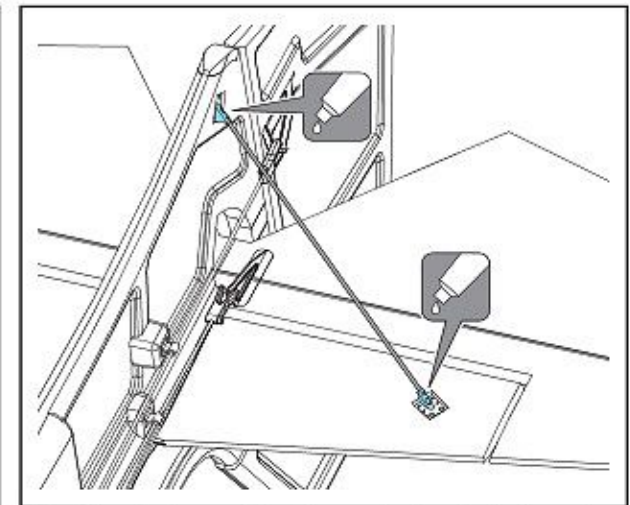
(35). Fix and glue one snap ring on the body as shown in figure.



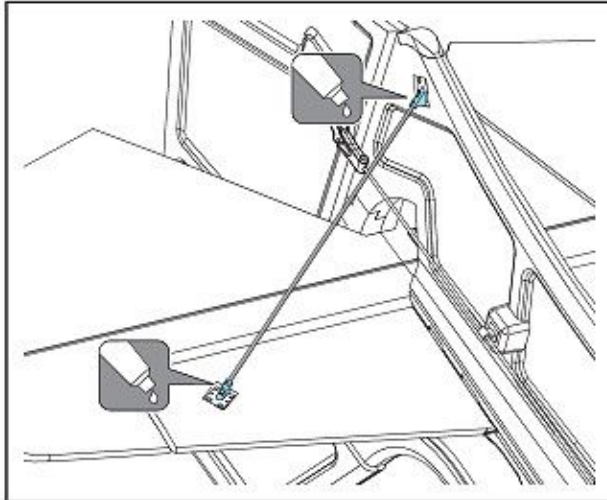
(36). Connect another side Vertical tail wing and Servo with pushrod: sheathe grip and rubber ring on one end of pollrod, and another end of pollrod cross one snap ring. Then, connect the servo arm and vertical tail wing servo mounts with the two ends of pullrods. (After assembly, please tight the screws by cross driver to make the vertical tail wing vertical.)



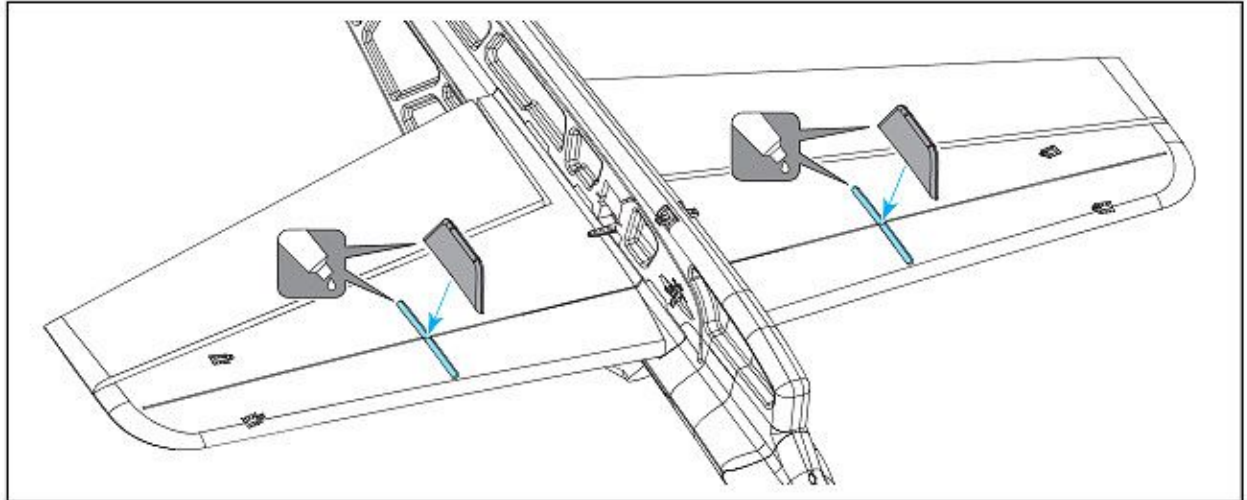
(37). Fix and glue 4pcs support mounts on the below of main wing as shown in figure.



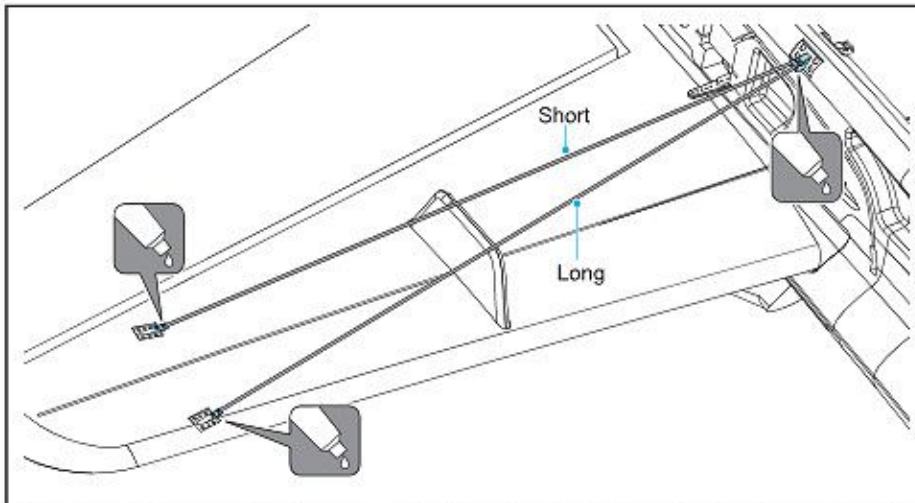
(38). Set and glue one side of support rod on the body and horizontal wing as shown in figure.



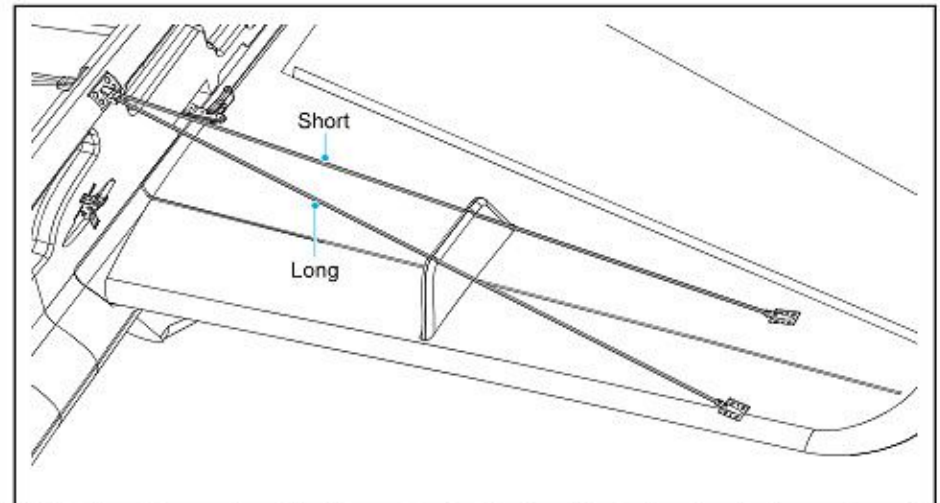
(39). Set and glue another side of support rod on the body and horizontal wing as shown in figure.



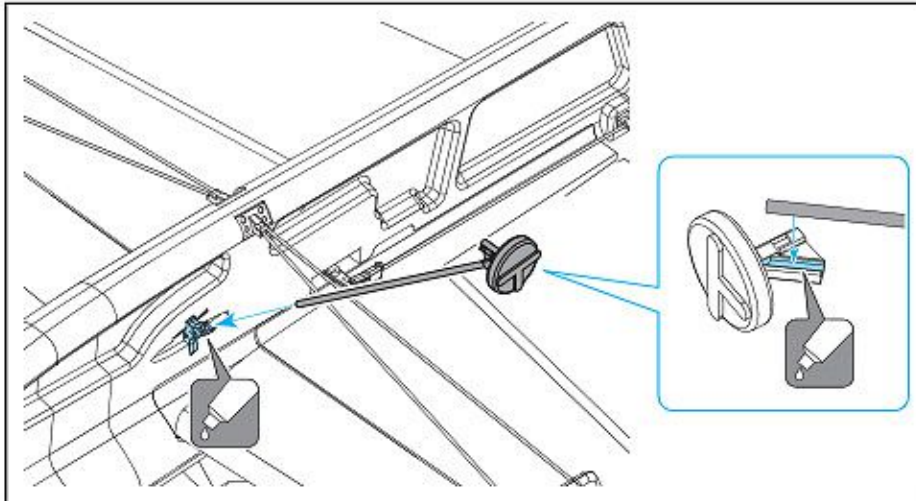
(40). Fix and glue 2pcs support plates on the below of main wing as shown in figure.



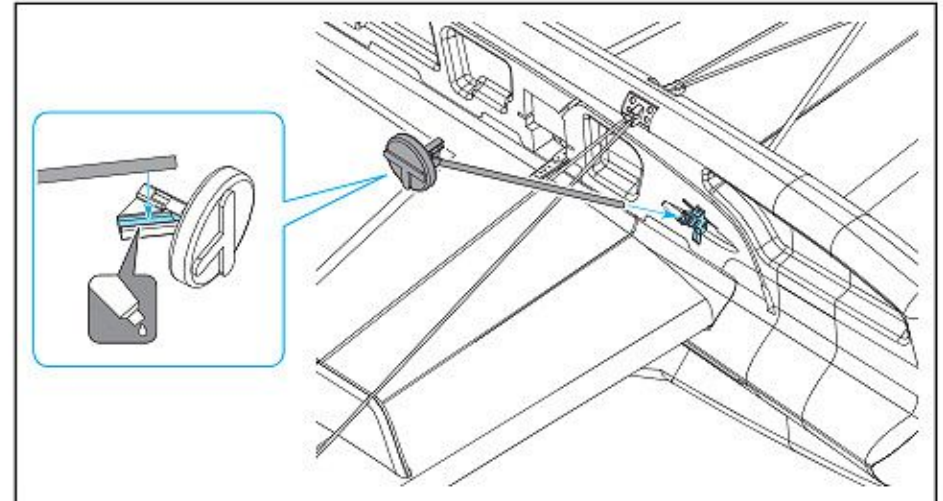
(41). Set and glue one side of support rods (2pcs) on the body and main wing as shown in figure. (Please note the lengths of the two support rods. The lengths are not the same.)



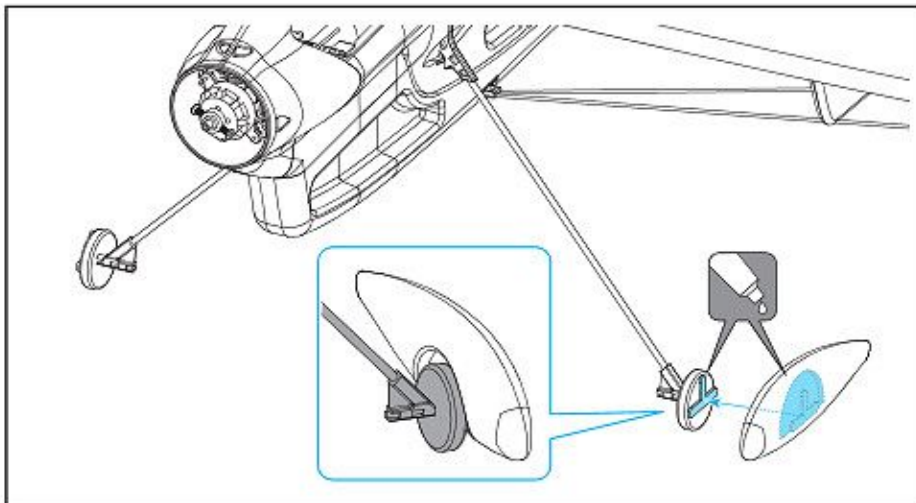
(42). Set and glue another side of support rods (2pcs) on the body and main wing as shown in figure. (Please note the lengths of the two support rods. The lengths are not the same.)



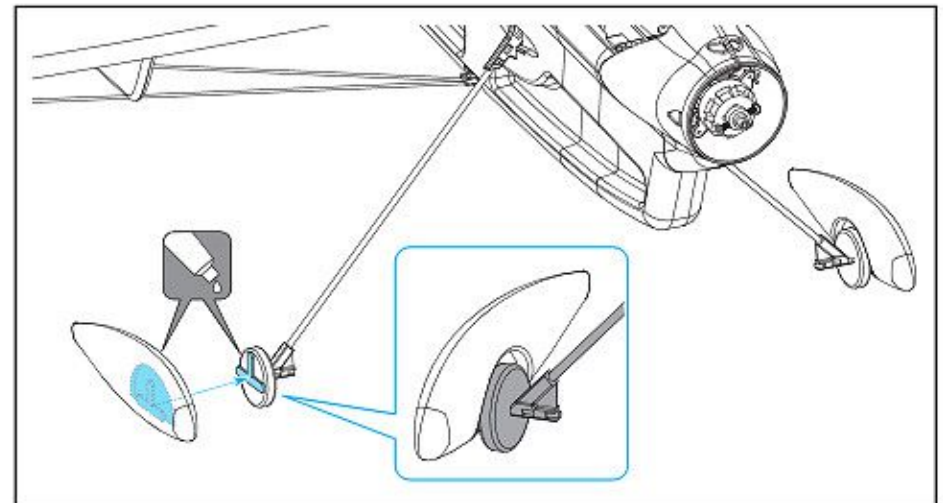
(43). One side landing skid installation: Fix and glue the tyre with carbon rod, then insert and glue another side of carbon rod into the support mounts on the body.



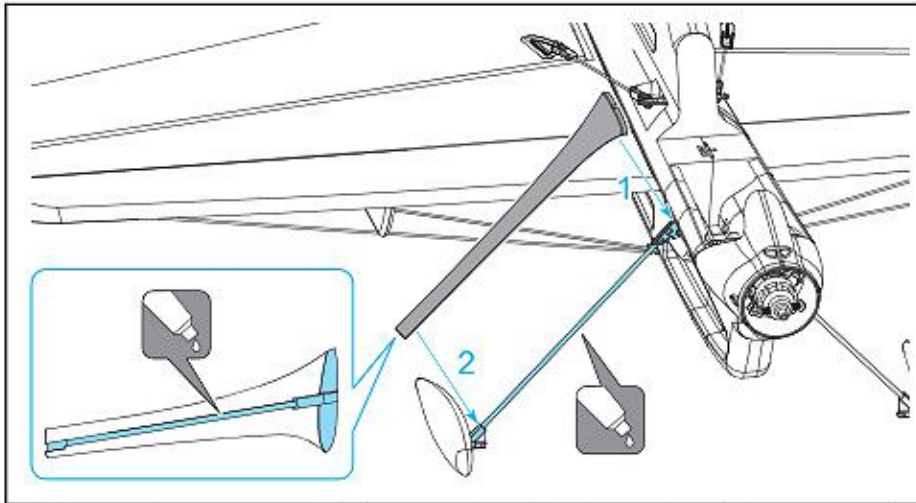
(44). Another side landing skid installation: Fix and glue the tyre with carbon rod, then insert and glue another side of carbon rod into the support mounts on the body.



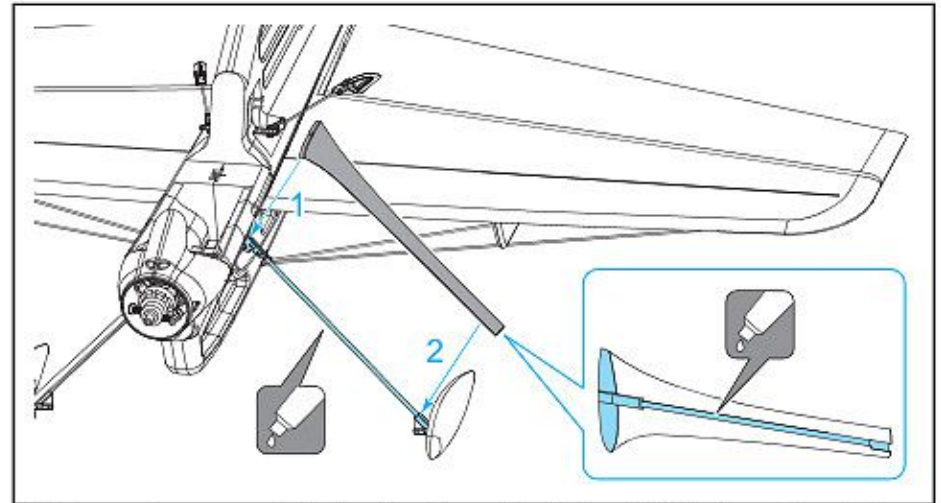
(45). Fix and glue left tyre foam mask on the tyre as shown in figure.



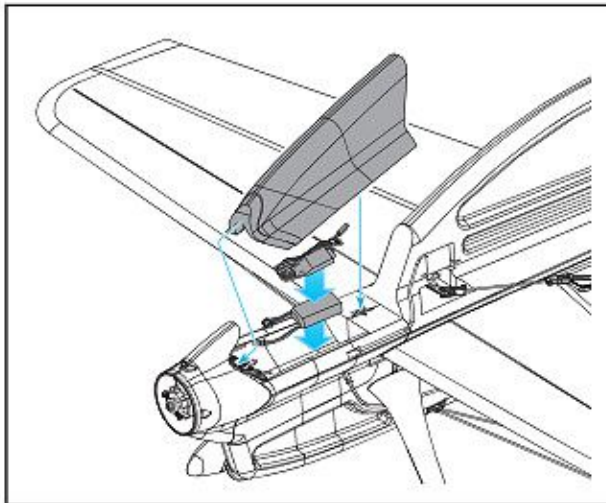
(46). Fix and glue right tyre foam mask on the tyre as shown in figure.



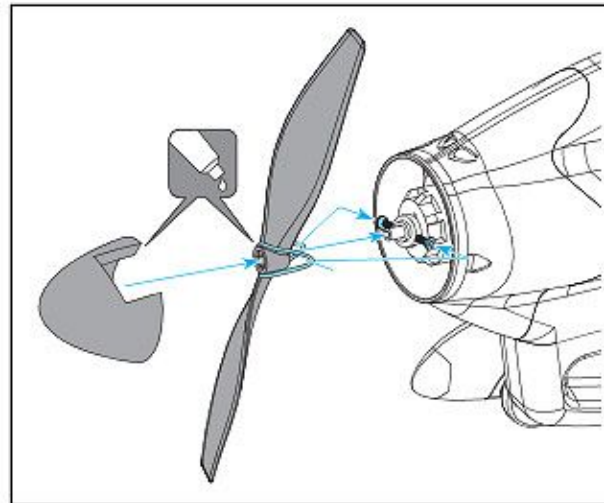
(47). Put on a foam coat on the right landing skid: seal the landing skid with glue as shown in figure, stick foam decorating parts with landing skid. (Stick the thick end of foam decorating parts firstly. Please well note the open end direction of foam decorating parts.)



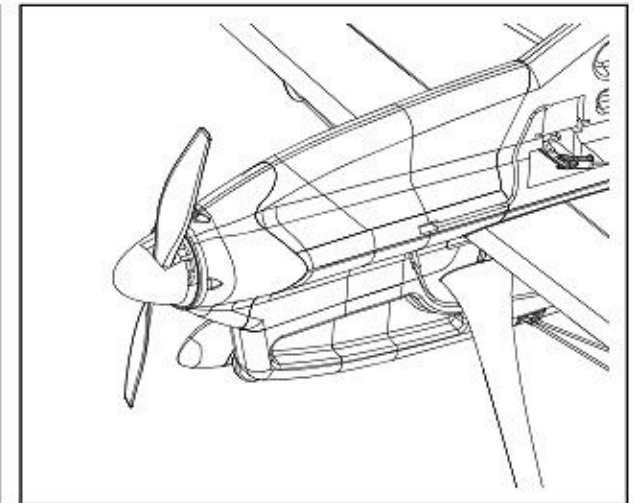
(48). Put on a foam coat on the left landing skid: seal the landing skid with glue as shown in figure, stick foam decorating parts with landing skid. (Stick the thick end of foam decorating parts firstly. Please well note the open end direction of foam decorating parts.)



(49). Put lipo battery and ESC into the airpalne and cover it.



(50). Fix the propeller on the motor by rubber ring, and then glue the propeller cover on the propeller as shown in figure.



(51). Installation complete.



As you have purchased this model we assume you're are a competent flyer and are familiar with this.

Centre of Gravity

Start with the CG at 62mm from the leading edge of the wing.

As you get more used to it or if you are a very experienced 3D pilot then the CG can be moved back as far as 75mm from the leading edge.

We highly recommend you move the CG back in small increments until you are happy with its flight performance.

Initial Suggested control throws

These are initial suggested movements.

You can increase or modify these as you get more comfortable flying this model

Measurements taken at the widest part of the moving surface

Elevator: +20mm, -20mm, 30% Exponential

Aileron: +20mm, -20mm, 30% Exponential

Rudder: +30mm, -30mm, 30% Exponential

Don't forget to range test your model as per the radio manufacturer's instructions.

We hope you have enjoyed assembling this model and may your take off's equal your landings.