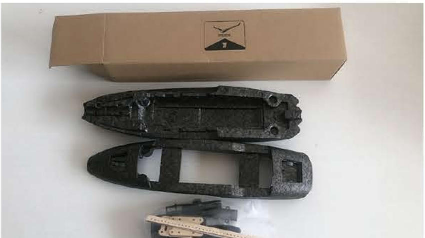
HEE WING T-1 Ranger KIT Assembly Guide

Welcome to choose our company’s HEE WING T-1 Ranger airplane， Please be patient to read the assembly manual and follow the instructions to assemble.Wish you enjoy your flight!

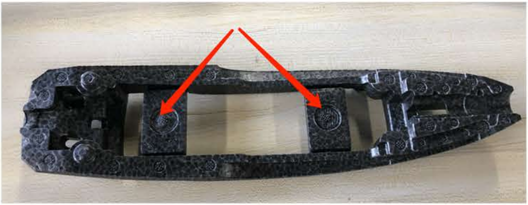
Need to prepare: Scissors,foam glue, clean towel or Non-woven Fabric(to wipe excessive glue) and phillips screwdriver.

Open the package, you can see three boxes and a piece of decal

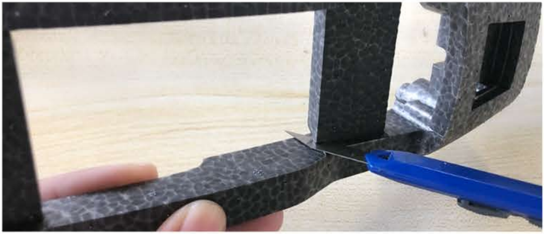
Open Box 1, you can find the upper fuselage, bottom fuselage and accessories bag inside.

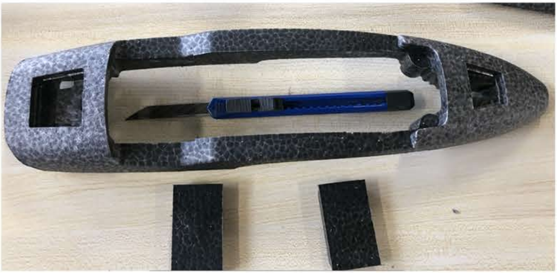


First process the upper fuselage, cut the 2 blocks along with the connection side, please pay attention not to cut other area.

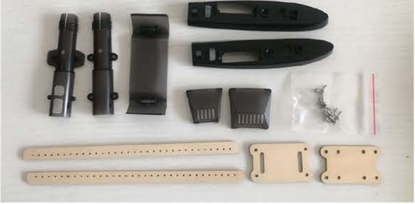


Pay attention to the connection side, use the knife to do carefully



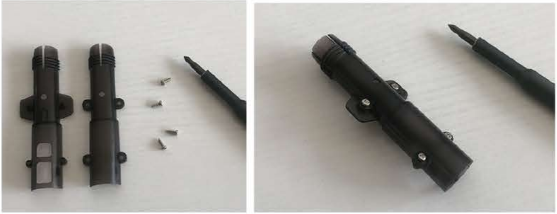


Open the accessories bag, including: 1 mounting set of tail boom(upper cover+bottom cover), 1 front ventilation cover, 1 rear ventilation cover, 1 landing gear mounting seat, 1 set quick release mounting of fuselage(Left side+Right side) and 1 screws bag.



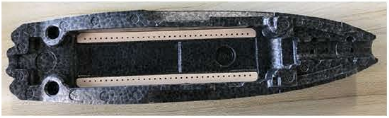
First to install the tail boom mounting set, take out 4pcs of 2*6 self tapping screws, and combine the upper and bottom covers of the tail boom.

(In the following screw installation process, Remember:Do not screw too tight, just make sure you are proper assemble in place , avoid to damage the plastic parts)

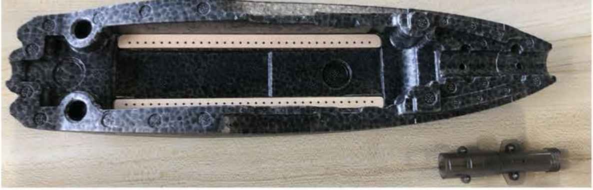


Apply foam glue to the wooden plate and bond to the bottom cover of fuselage

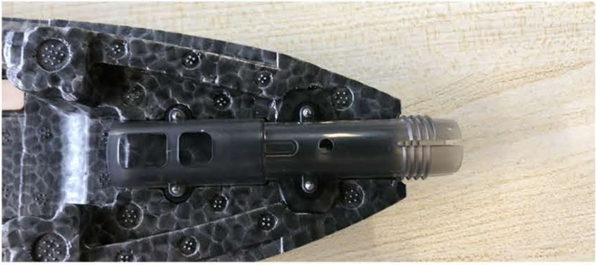
After the glue is applied, it must be accurately aligned to install. After the installation is in place, it is necessary to manually press the parts to make it tight. (The wooden plate aligned refer to the front of the nose of fuselage shall prevail)



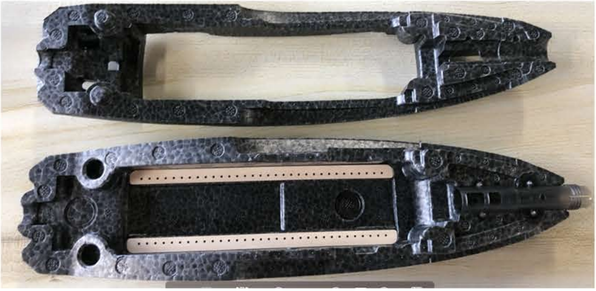
Use form glue to stick the tail boom mounting seat to the bottom cover of fuselage.



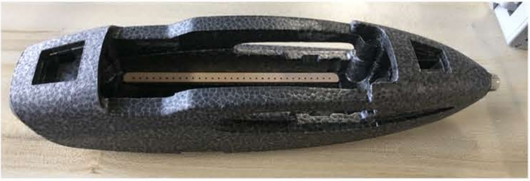
The side of the mounting seat with the air vent is upward. After the glue is applied on the reverse side, the adhesive must be correctly aligned. After the installation is in place, the adhesive parts need to be manually pressed to make it tight.



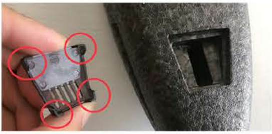
Combine the upper cover and bottom cover of fuselage.



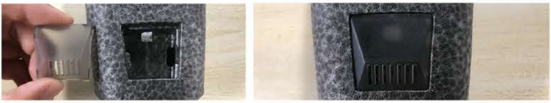
After the glue is applied, it must be accurately aligned to install. After the installation is in place, it is necessary to manually press the parts to make it tight.



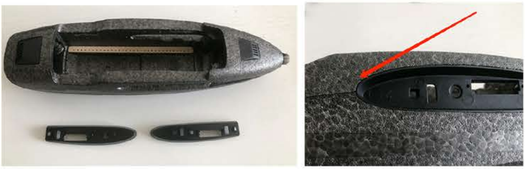
Glue the ventilation cover. Just glue in the 4 corners of the cover plate and install it into the corresponding slot. Wipe the excess glue with a towel.



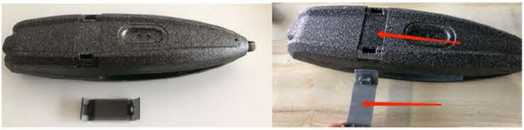
If GPS installation is not required,please bond the GPS cover plate directly. After gluing, buckle the plastic cover plate into the setting position. Wipe off excess glue.



Install the quick release mounting. When you glued and install the part, please notice to along the front slot.



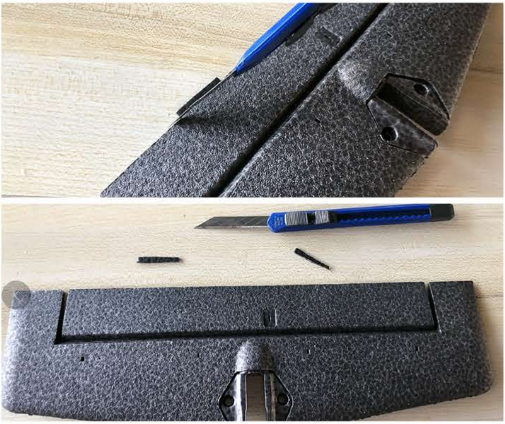
Install the landing gear mounting seat. When you glued and install the part, please Note that the arrow direction of the base is consistent with the nose direction.



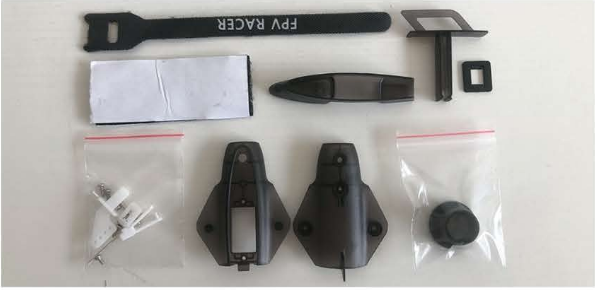
After glued and installed, please note the gap between plastic part and foam, suggest to press for tight.

Open box No.2, including: 1 front hatch cover, 1 rear hatch cover, 1 horizontal tail, 1 vertical tail, 1 tail accessories bag, 1 wing accessories bag, 1 tail boom, 1 wing carbon fiber link rod, 1 LED lamp bag.

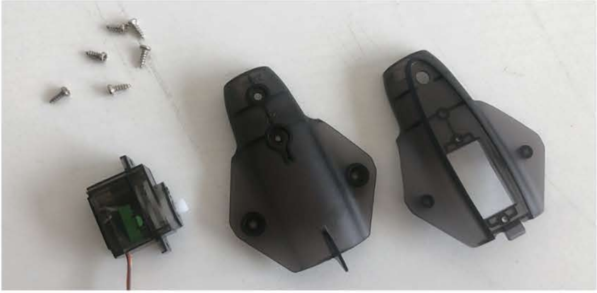
Use knife to remove additional parts from the horizontal tail.



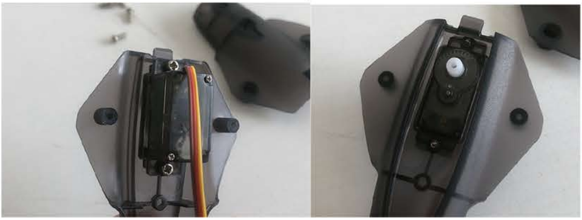
Open the tail accessories bag, including: 1 hatch handle, 1 handle buckle, 1 upper cover of horizontal tail wing fixing seat, 1 bottom cover of horizontal tail wing fixing seat, 1 vertical tail fixing seat, 1 aluminum tail boom, 1 aluminum nut, 1 battery strap, 1 pair of Velcro.



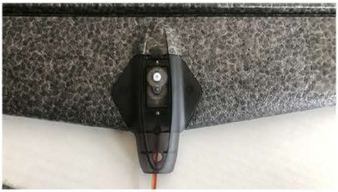
Combine the upper cover and bottom cover of the horizontal tail fin fixing seat, and use the pre-purchased 5g tail servo (400mm cable length). 2*6 self tapping screw 4.



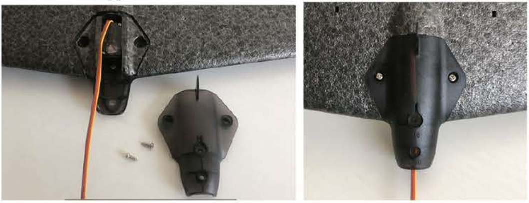
Fix the tail servo to the top cover of the horizontal tail fixing seat and lock it with screws. Installation direction as shown in below figure.



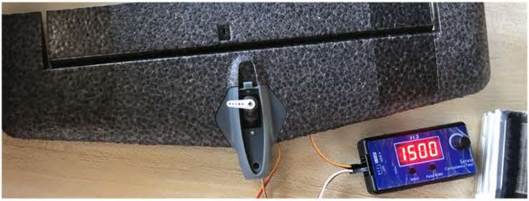
Snap the upper cover into the horizontal tail.



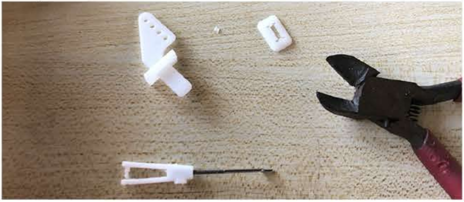
Combine the upper cover and bottom cover and lock them with screws.



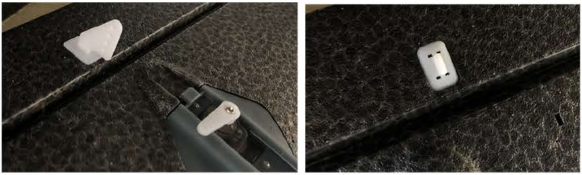
Power on the tail servo and set the neutral point. Servo arm direction is shown below.



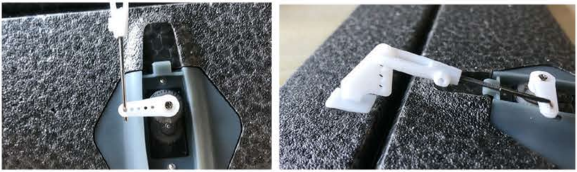
Set up linkage, linkage nylon lock and nylon horn. Screw the linkage into the nylon lock. And cut the nylon horn and buckle.



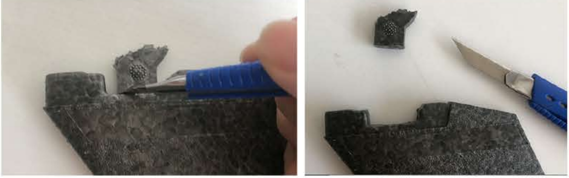
Install the nylon horn to horizontal tail and secure with buckle.



Linkage side install to the first hole of the servo arm, linkage nylon lock side install to the first hole of the nylon horn.



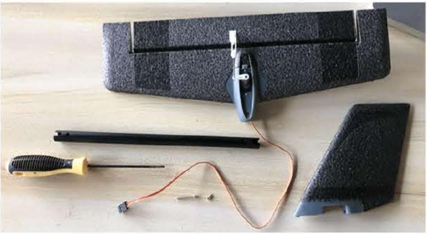
Use knife to remove additional parts from the vertical tail.



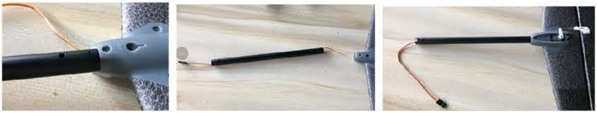
The vertical tail base is bonded to the vertical tail.

After glued, press to tight and make sure the plastic part is fully inlay to the position.

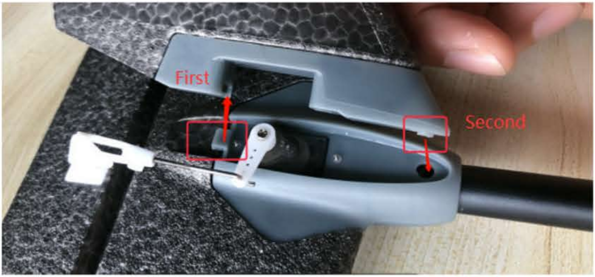
Install tail boom. Prepare the horizontal tail fin, vertical tail fin, tail boom, 2*20 self tapping screw, 2*6 self tapping screw.



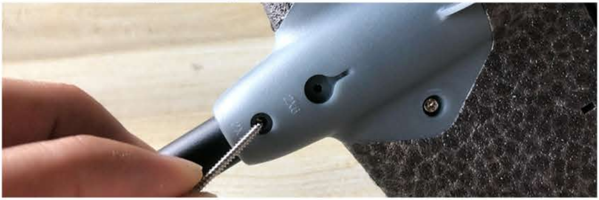
Please backward the side which with two round holes on the tail boom . After the servo cable is threaded into the tail boom, use the tail boom to connect with the horizontal stabilizer seat. Attention: Do not squeeze the servo cable during the connection, otherwise it will cause circuit failure.



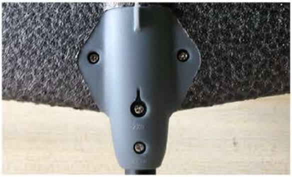
Follow as below figure, Buckle the rear of the vertical tail first into the mounting base of the horizontal tail, and then insert the screw column bolt into the round hole.



Use 2*20 self tapping screws, pass through the screw hole, and lock with the screw hole of the vertical tail. This step assembly should pay attention to the screw can not interfere with the servo cable, to avoid puncturing the cable failure.

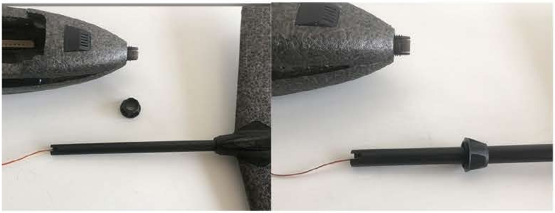


Then screw the tail boom with 2*6 tapping screw.

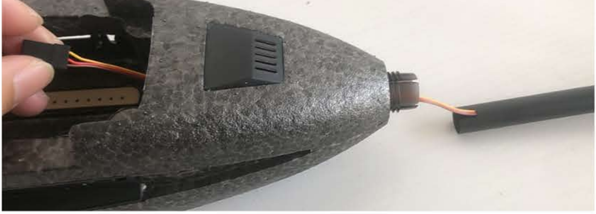


Combine the tail and fuselage

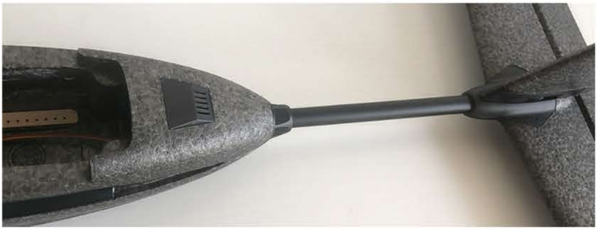
Combine the tail with the fuselage. Thread the nut into the tail boom, paying attention to the direction of the nut.



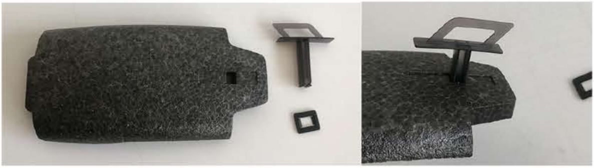
Thread the tail servo cable into the tail boom mounting seat.



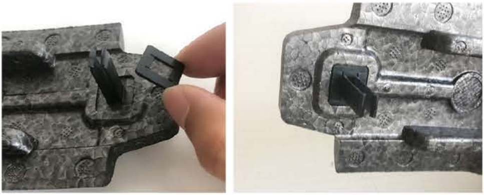
Insert the tail boom into the fuselage mounting seat, lock the nut, be careful not to lock the nut too tight, as long as the tail boom is not easy to fall off.



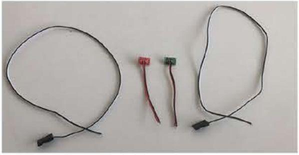
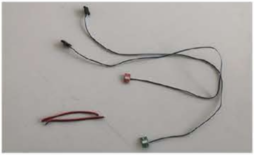
Install hatch handle and buckle into the front hatch hole.



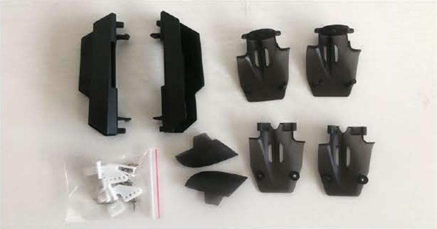
When install the buckle, note: the flat side faces outward



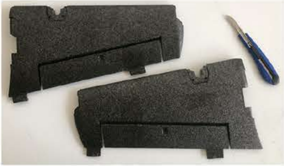
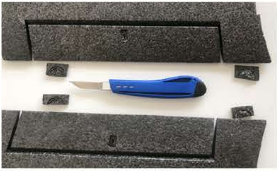
Open the LED lamp accessories bag. There are two connecting cables, one red light, one green light. Remove the original short cable and weld the long power cord cable. Pay attention to the positive and negative poles of power supply when welding.

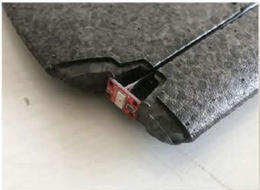
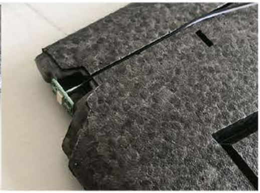
Open the wings accessories bag, including: 1 left lamp shade, 1 right lamp shade, 1 RED LED lamp board, 1 green LED lamp board, 400mm X 2 connecting cables, 1 left wing quick release base, 1 right wing quick release base, 1 upper cover left motor base, 1 upper cover right motor base, 1 bottom cover left motor base, 1 bottom cover right motor base, screws bag.



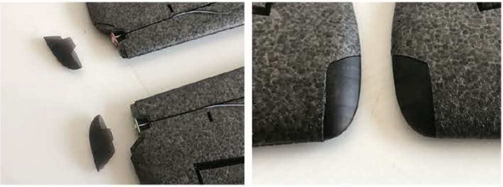
Open box 3, take out the wings. Use a knife to cut off additional parts .

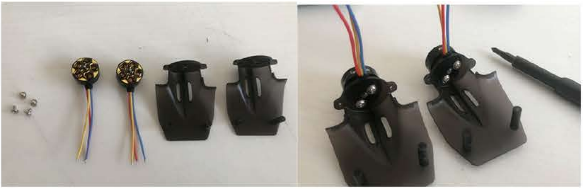
Plug the LED power cord cable into the cable slot, red on the left wing, green on the right wing.

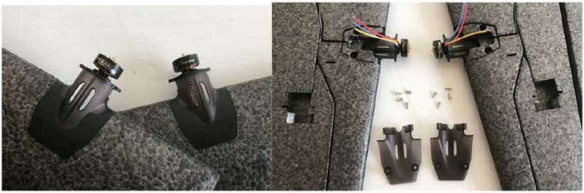
Glue the lampshade and attach it to the wing.



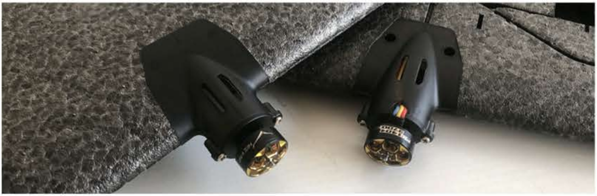
Install the motor on the upper cover of the motor base. The motor and 4 mechanical teeth M2*6 motor fixing screws are needs to be purchased separately.



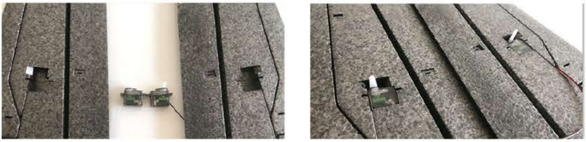
Install the motor upper cover on the wing. Take out the 2 sides of bottom cover of motor seat and 8pcs of 2*6 self tapping screws.



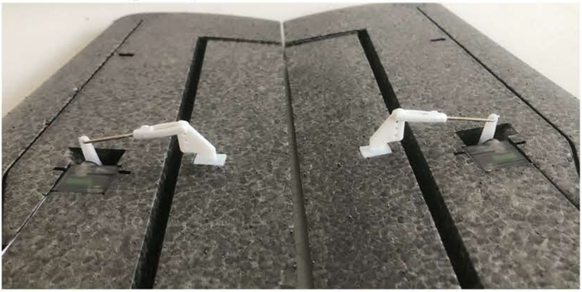
Combine the upper cover and bottom cover with screws. Do not to screw too tight to avoid screw slippage.



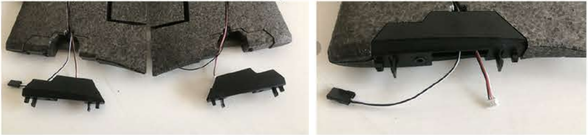
Install servo for aileron (5 grams servos needs to be purchased separately), find neutral point of servo arm and install servo arm with symmetrical Angle, then glue it to the wing.



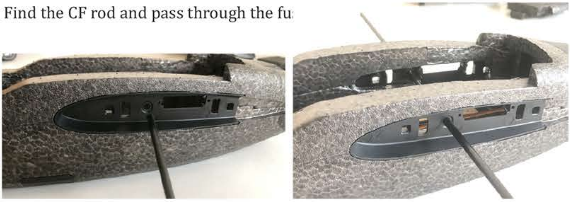
Install servo linkage and nylon horn.



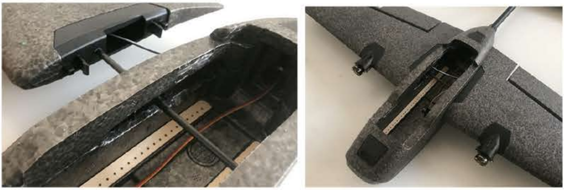
Glue the quick release base to the wing.



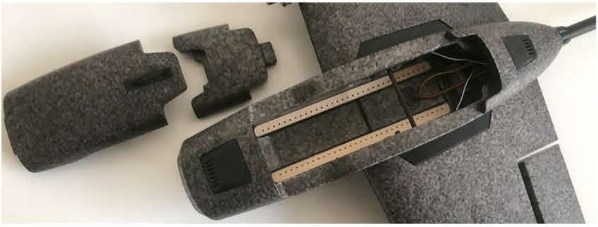
Find the CF rod and pass through the fu

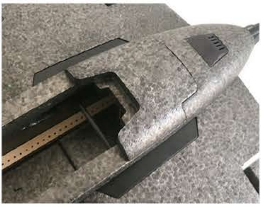


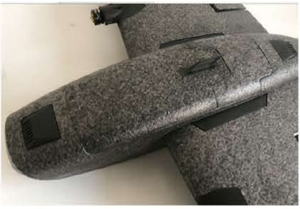
Install the wings to the fuselage.



Install the hatch cover, first install the rear hatch cover on the fuselage, and then install the front hatch cover buckle on the carbon fiber rod.







Complete installation.

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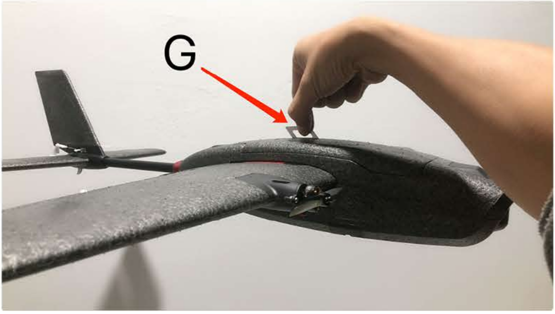The position of the center of gravity of the aircraft is as shown below.