

Minimum RC™

Butterfly V1-2024 Assembly Instructions

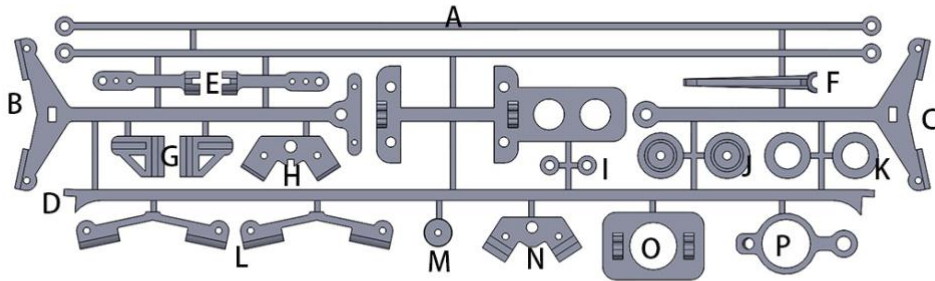


Important Instructions

- 1.The model is supplied with UFO and 502 glue. UFO is for bonding foam parts, and 502 for bonding wood, carbon fiber and metal parts. 502 glue will cause serious corrosion to foam parts.
- 2.Please wait for the glue to dry and solidify in each installation step before the next installation.
- 3.Please avoid using flame to heat the heat shrinkable tube on the model. Electric iron shall be used for heating.
- 4.Please use razor blade to remove the parts from the plate. Do not tear the parts by force.

Assembly techniques

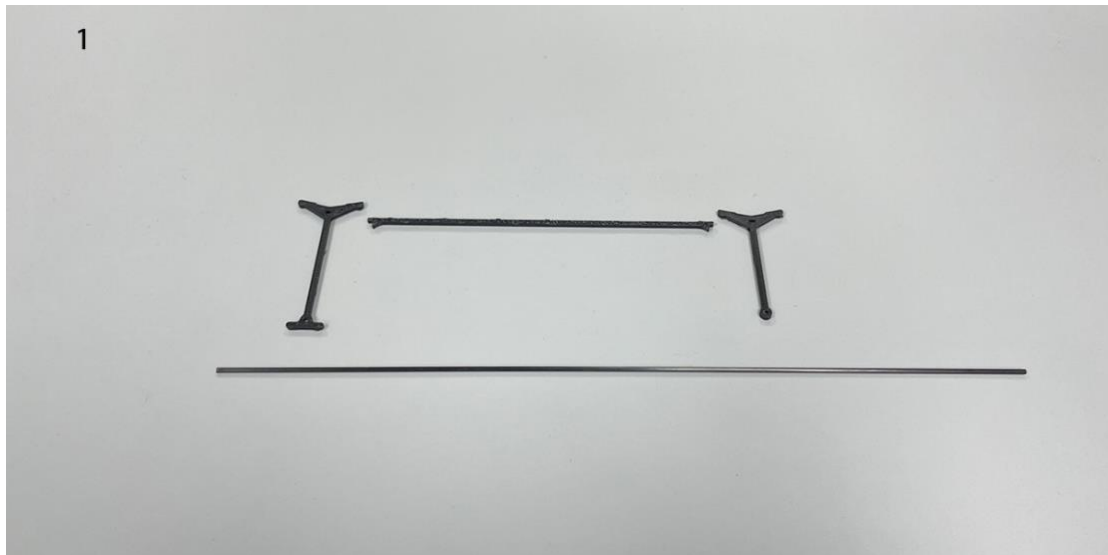
- Cut off the connectors shown in the diagram and remove the parts.



- Roll back and forth TO cut the carbon rod.



1. Fuselage component B C D and 1.5mm x250mm carbon rod.



2. Combination fuselage components B C D and 1.5mm x250mm carbon rod. Note that the higher part B is located at the front end of the fuselage, 25mm away from the end of the carbon rod. The top of part B has a raised side facing backwards, while the top of part C has a raised side facing forwards.



3. Before bonding, invert the parts and check their flatness on a horizontal surface to ensure that there is no distortion during assembly before bonding.



4. Screw in 2 m1x3 screws at the front end of component B to secure the landing gear steel wire.



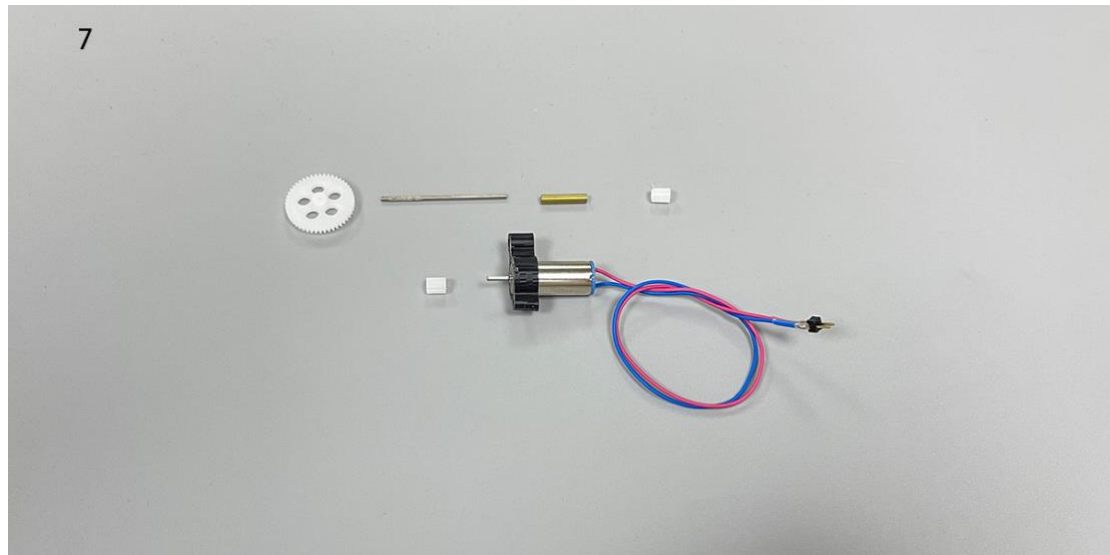
5. Component N installation at tail. Pay attention to the side with grooves facing backwards.



6. Detail: Component N has a groove facing backwards. Place the parts on a horizontal surface to check their flatness and ensure that there is no distortion during assembly before bonding.



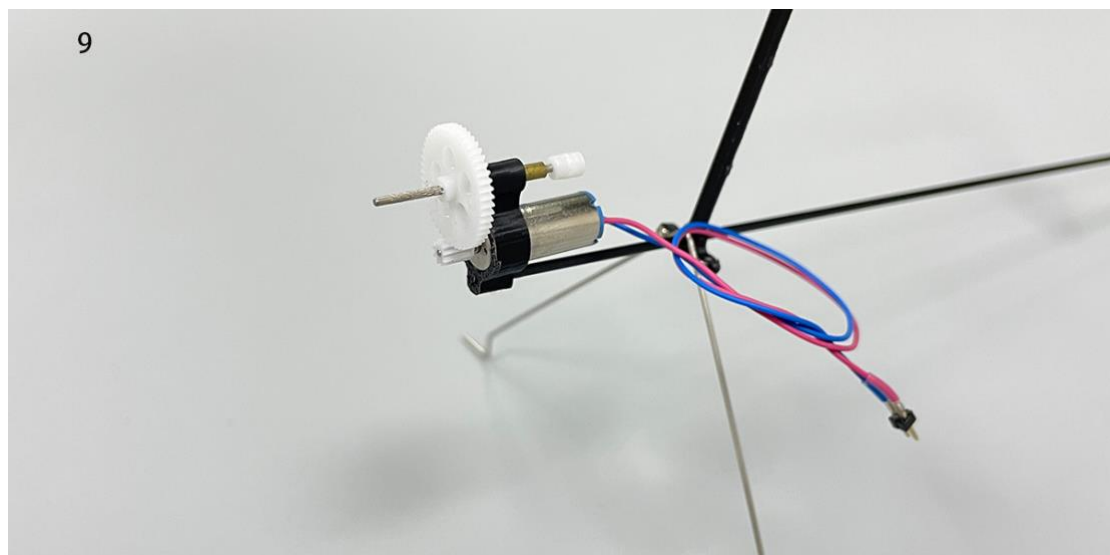
7. Component P and gear components.



8. Note that the installation hole at the lower end of component P is inclined, and it will be installed on the body in a tilted downward manner, forming a tension line pull angle. Combine the powertrain components and use glue to secure the motor and brass shaft sleeve to ensure proper engagement between the motor gear and the main gear.



9. Install the powertrain onto the fuselage. Note that it is tilted downwards.



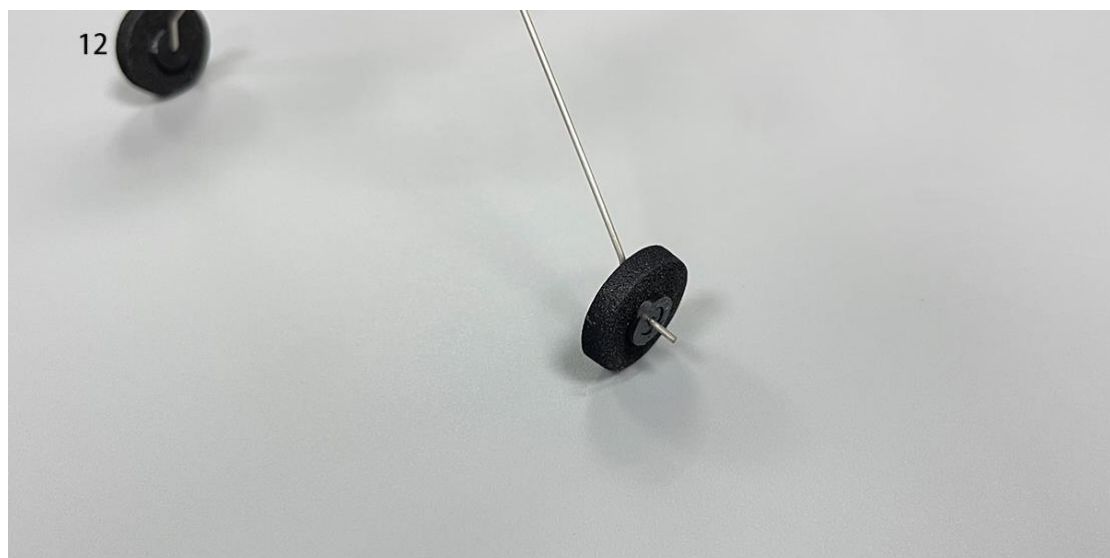
10. Wheel assembly J K and sponge tire.



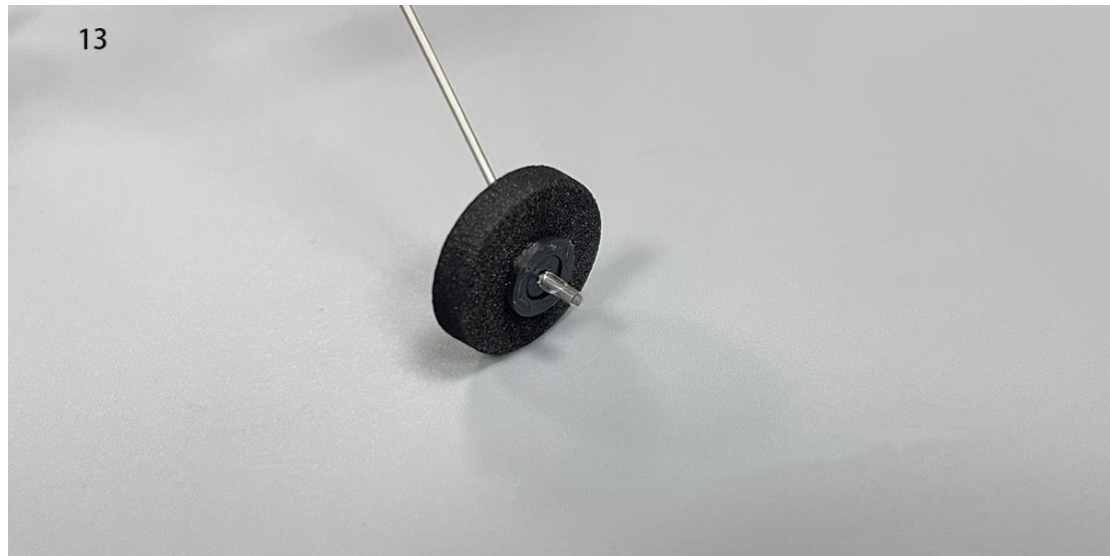
11. Combination wheels.



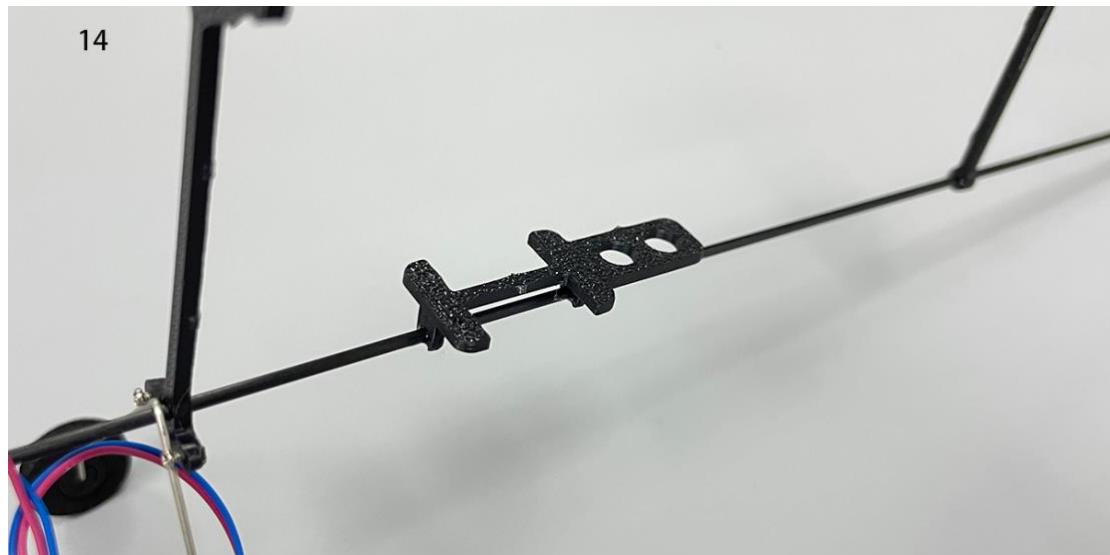
12. Install the wheels at the end of the landing gear wire.



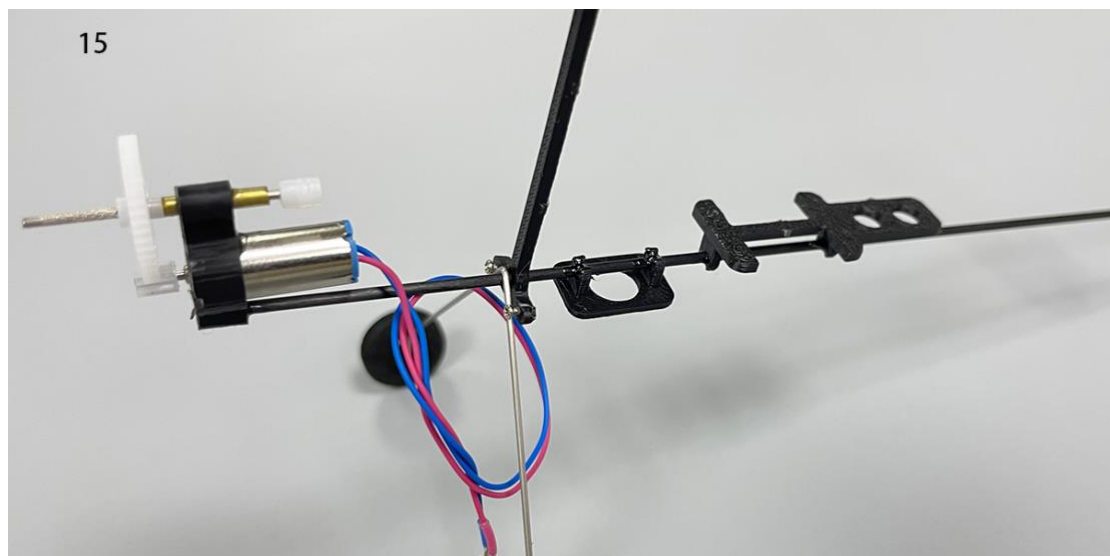
13. Cut a 3mm length heat shrink tube, place it at the end of the steel wire, heat shrink and fix it with adhesive to prevent the wheel from falling off.



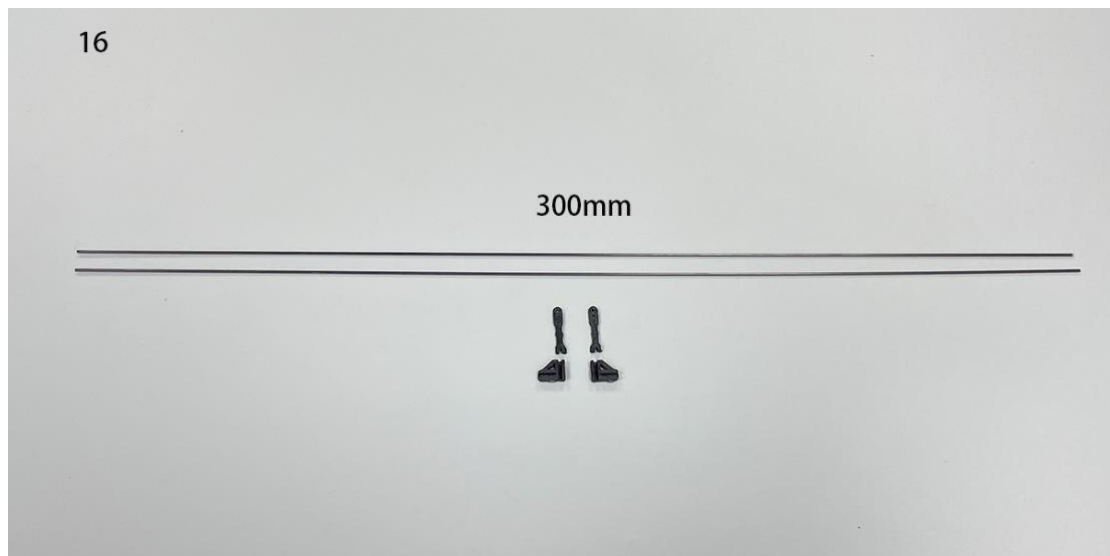
14. Install the equipment base in the middle section of the fuselage.



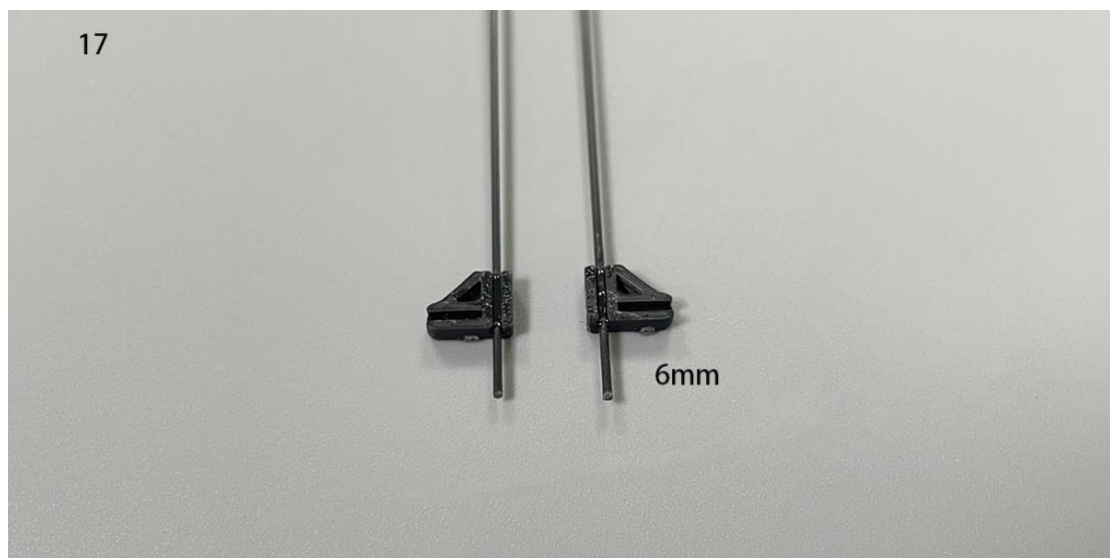
15. Install the battery holder in the front position of the middle section of the body.



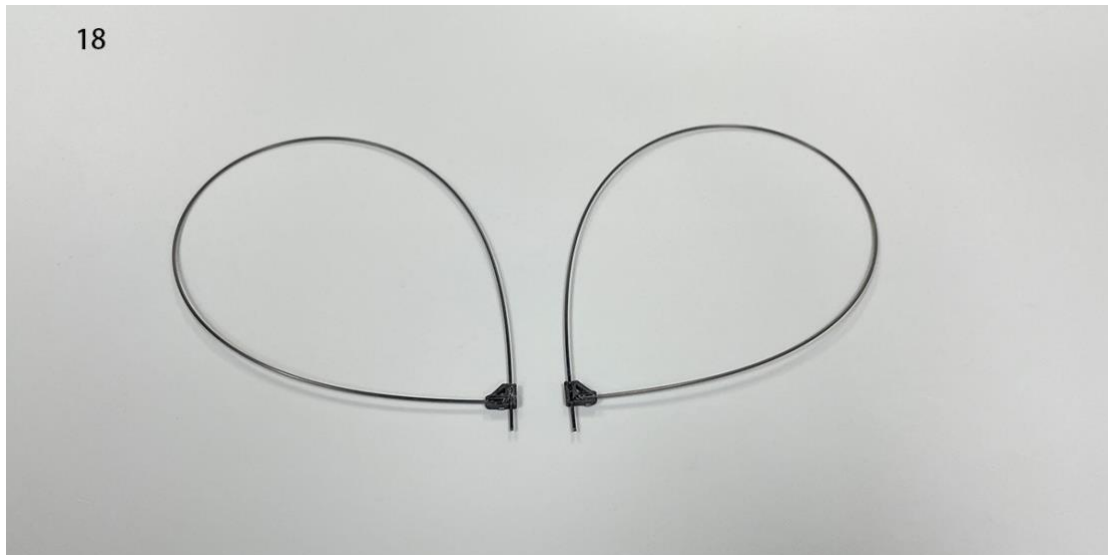
16. Take two 0.8mm x 300mm carbon fiber rods for making the tails. Tail parts E G.



17. As shown in the diagram, fix the ends of the carbon fiber rod to component G separately and bond them with glue. Please pay attention to the shape of the components shown in the diagram and mirror the assembly of the tails on both sides to avoid confusion. The end of the carbon fiber rod should extend at least 6mm beyond the edge of component G.



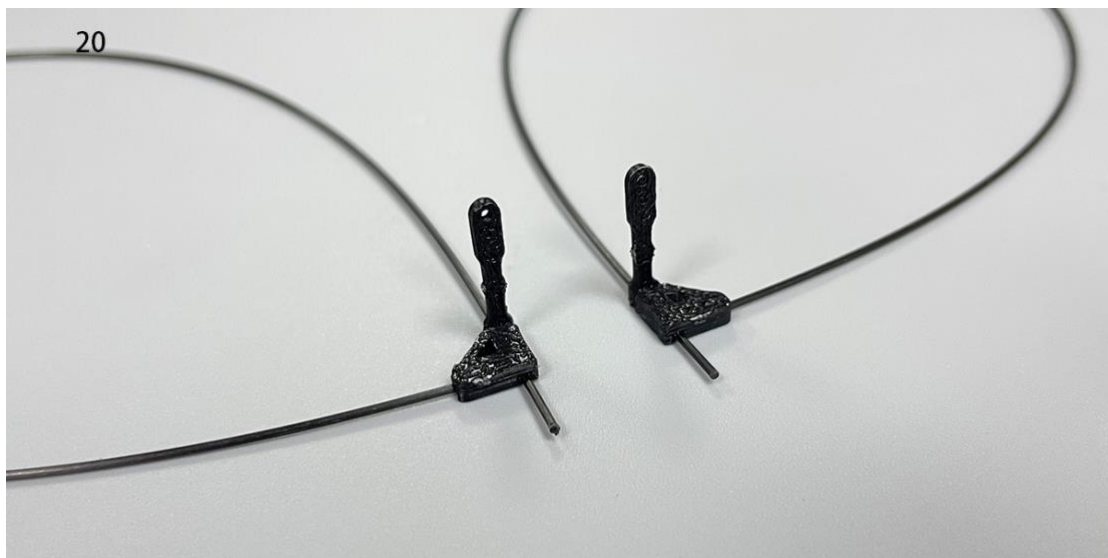
18. Bend the carbon rod and secure the other end to component G to form the tail frames.



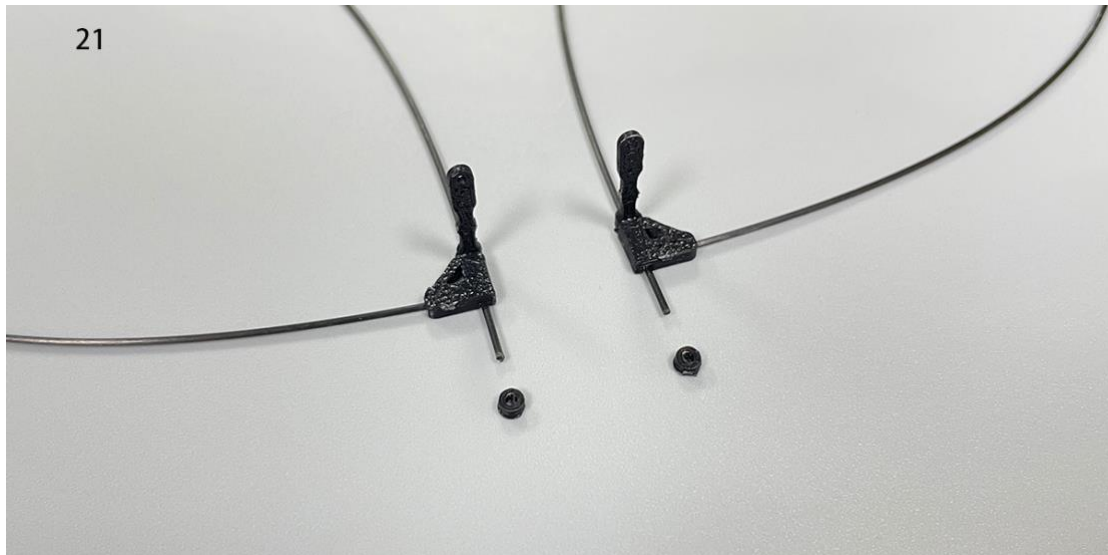
19. Flip the tails over. (Component G with no groove facing upwards)



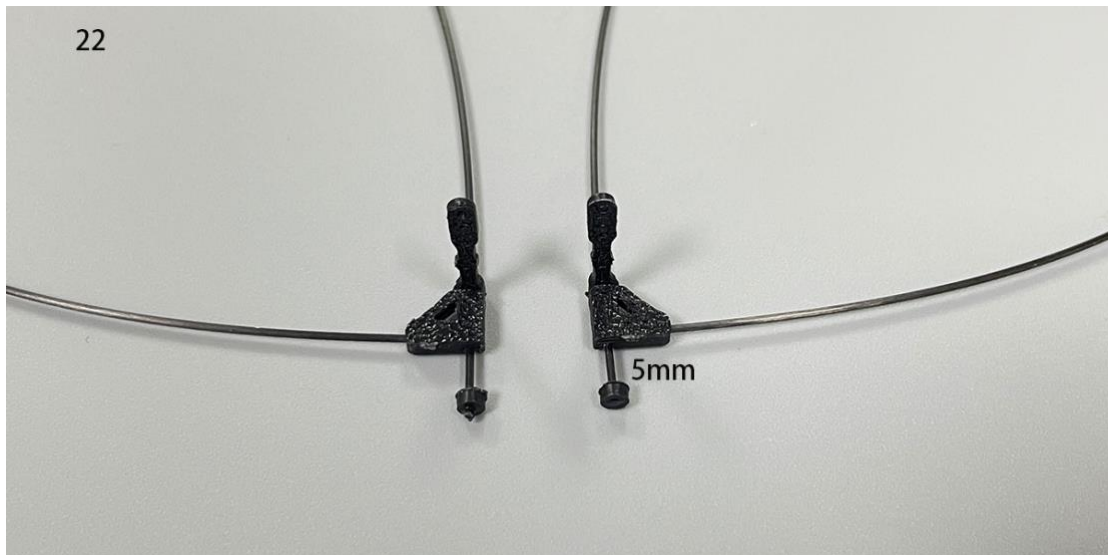
20. Fix component E vertically with glue.



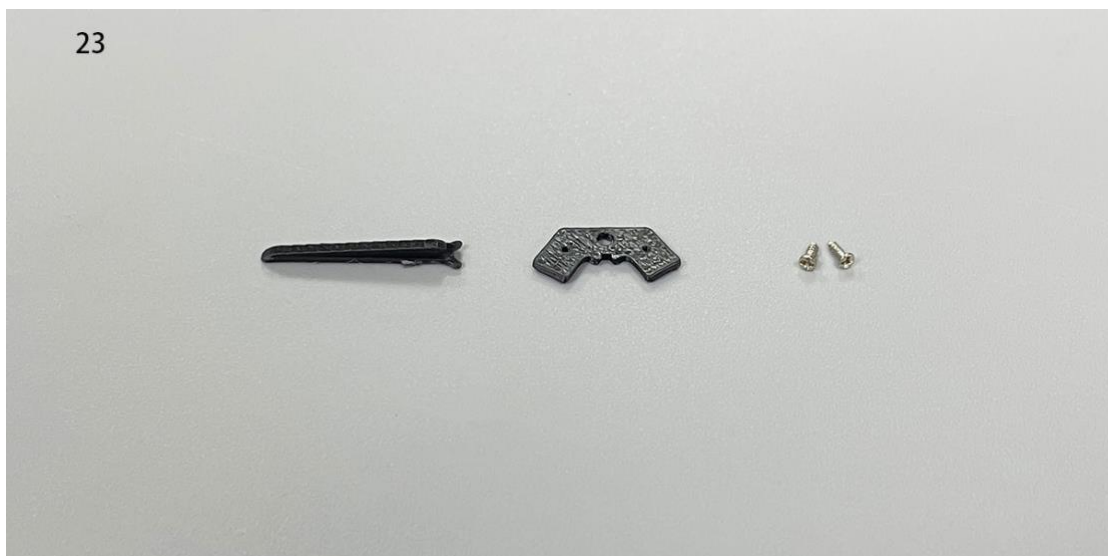
21. Component I.



22. Fix component I at the end of the tail carbon rod, and note that there should be a 5mm distance between component I and component G.



23. Tail cover parts F H.



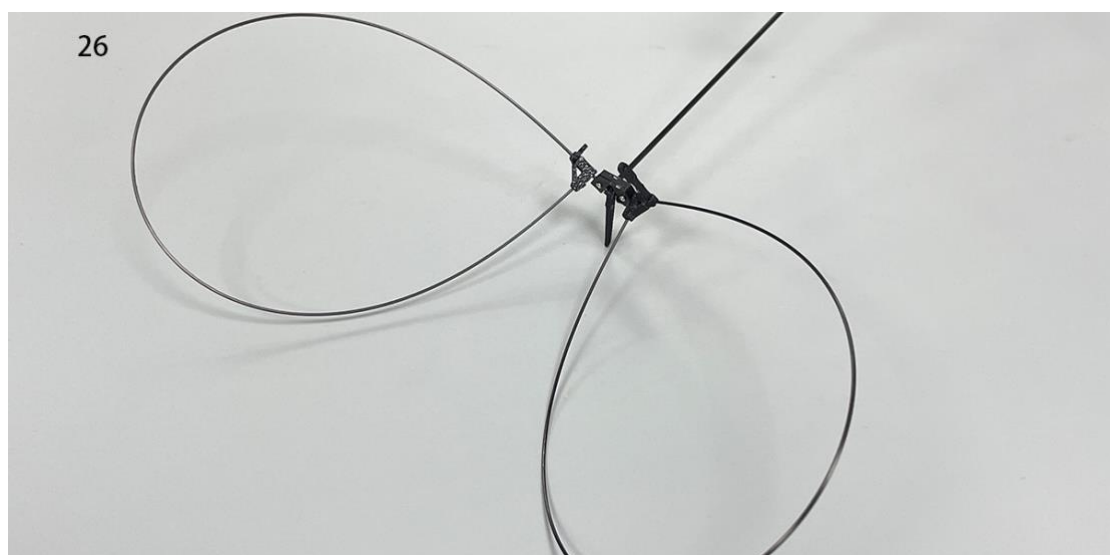
24. Combination tail cover plate assembly F H.



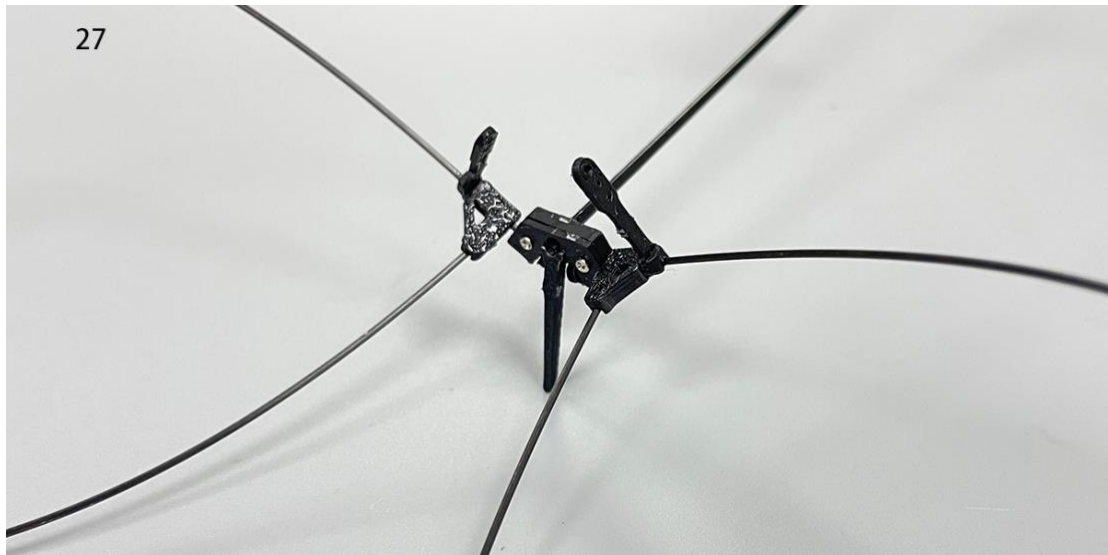
25. Screw in two m1 x3 screws on the tail cover assembly.



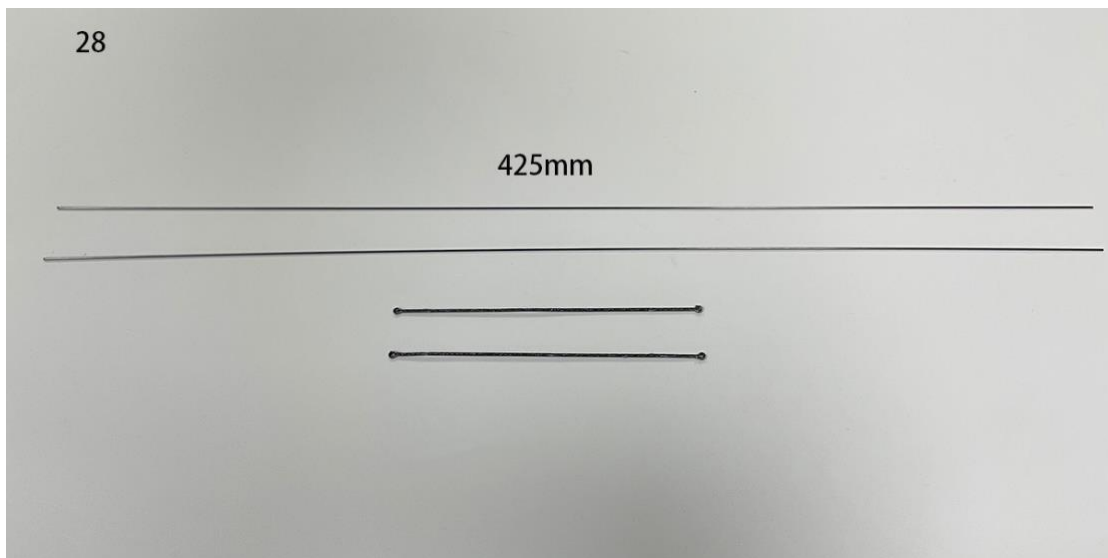
26. Insert the carbon fiber rod at the bottom of the tail into the groove of the tail component N, and then fix the tail cover assembly to component N with screws, allowing the tails to rotate freely within it. The installation of the tail here is only a demonstration of the installation method, and the subsequent steps need to be removed for covering operation.



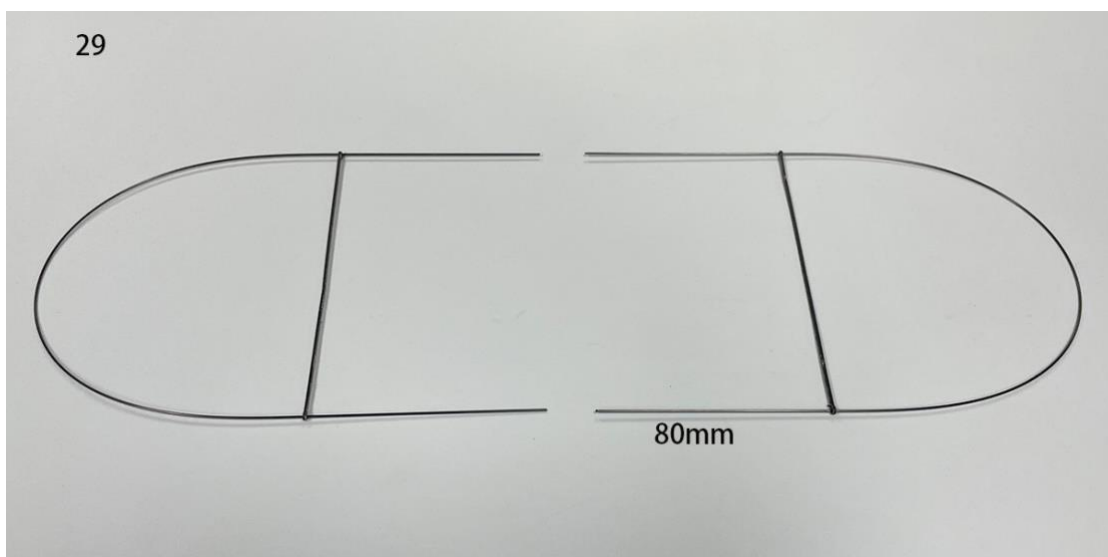
27. Details: The tails can rotate freely.



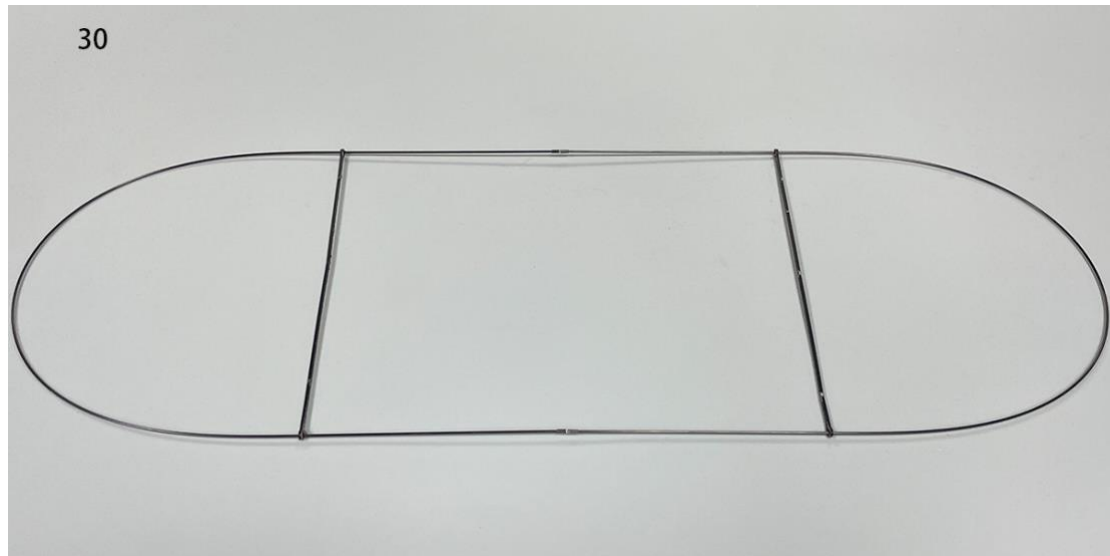
28. Take two 0.8 x425mm carbon fiber rods for making wings. Wing component A.



29. Insert both ends of the carbon fiber rod into the holes on both ends of component A, forming a wing shape. Note that the end of the carbon fiber rod should be 80mm away from component A.



30. Cut two 8mm length heat shrink tubes, connect the ends of the carbon fiber rods on both sides of the wings together, heat shrink and fix with adhesive.



31. Details: Use heat shrink tubing to connect the carbon rods on both sides of the wings.



32. Wing fixing piece L.



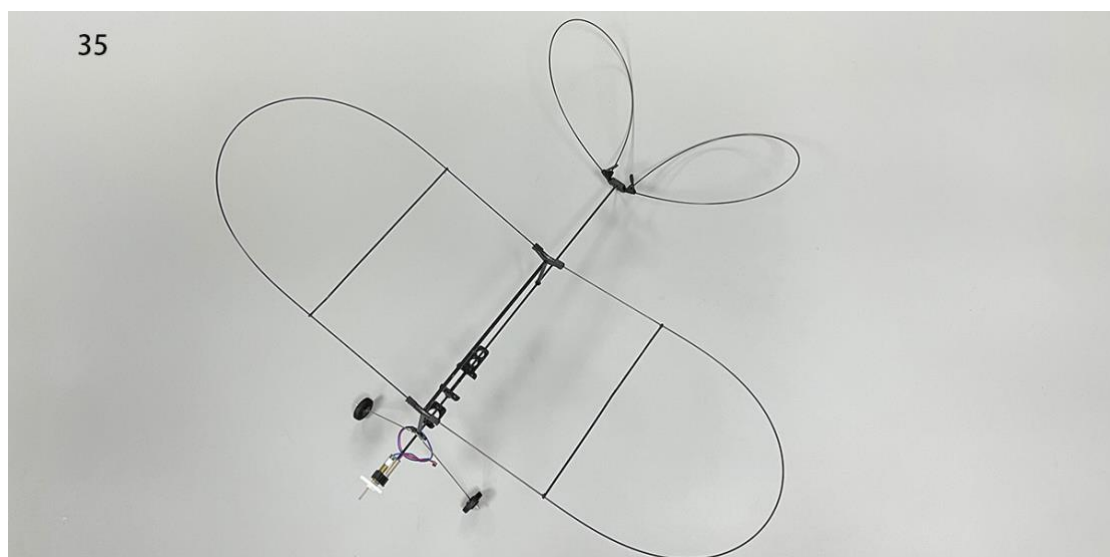
33. Screw in two m1x3 screws on the wing fixing piece L.



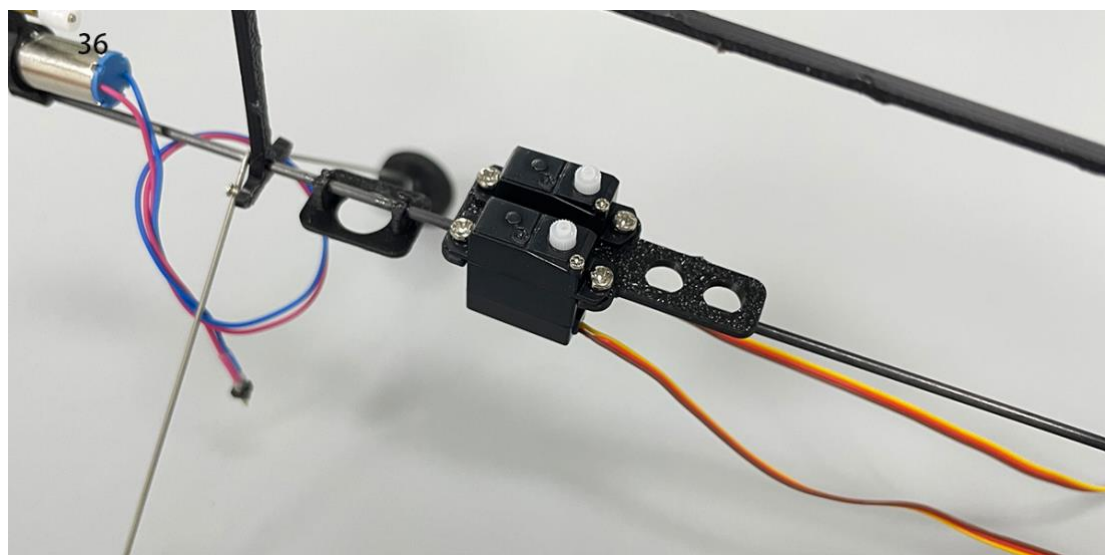
34. Use wing fasteners to secure the center of the wing to the fuselage frame.



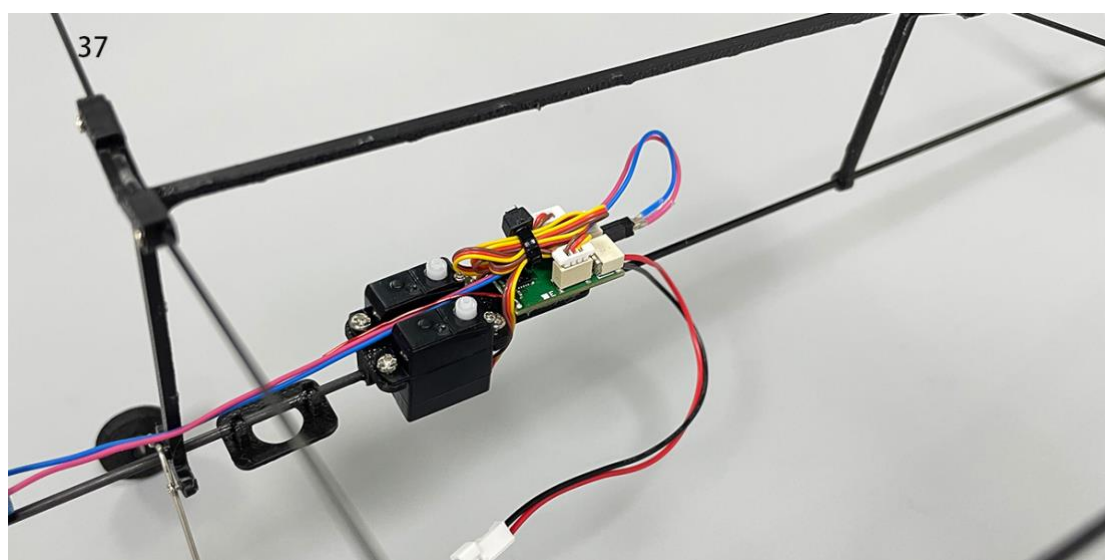
35. Wing Fixed. The installation of the wing here is only for demonstration of the installation method, and the subsequent steps need to be removed for covering operation.



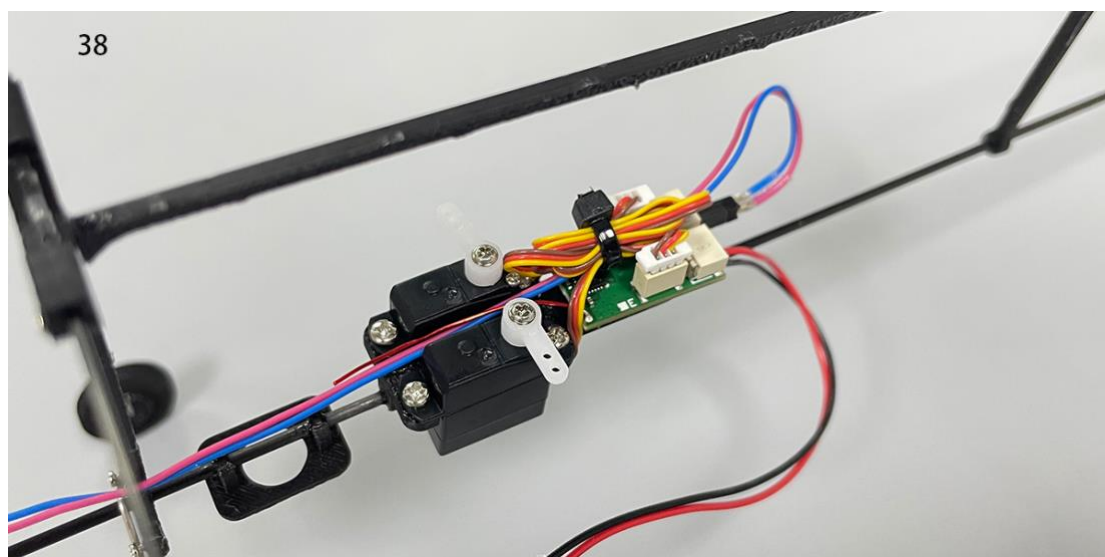
36. Install two servos.



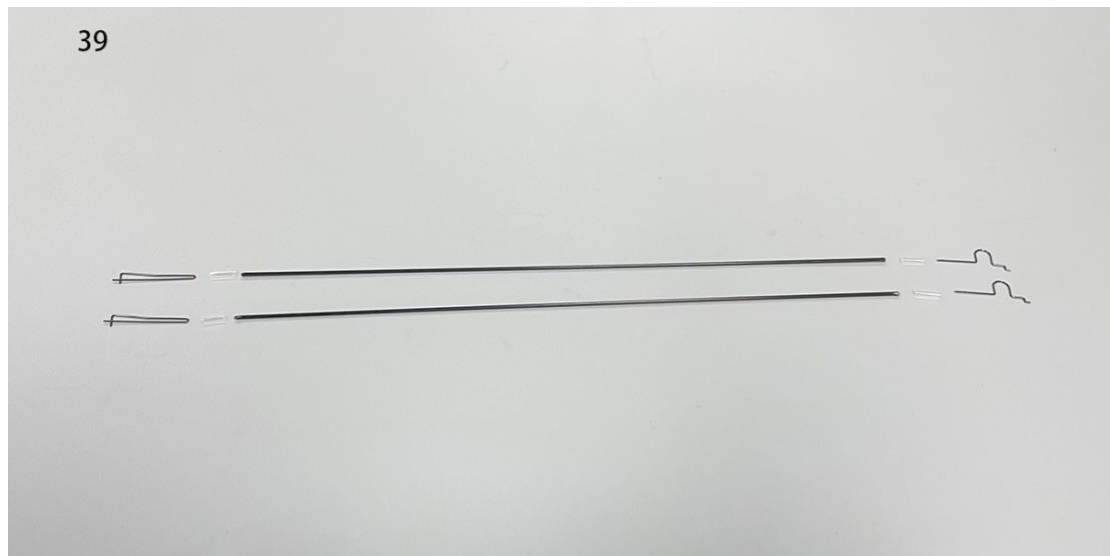
37. Use Velcro to secure the receiver to the base, connect the servo, motor, and receiver, test whether all equipment is working properly, whether the motor rotation direction is correct, and use zip ties to secure the cables. The wire connection method can be found at the end of this article.



38. Install the servo arms.



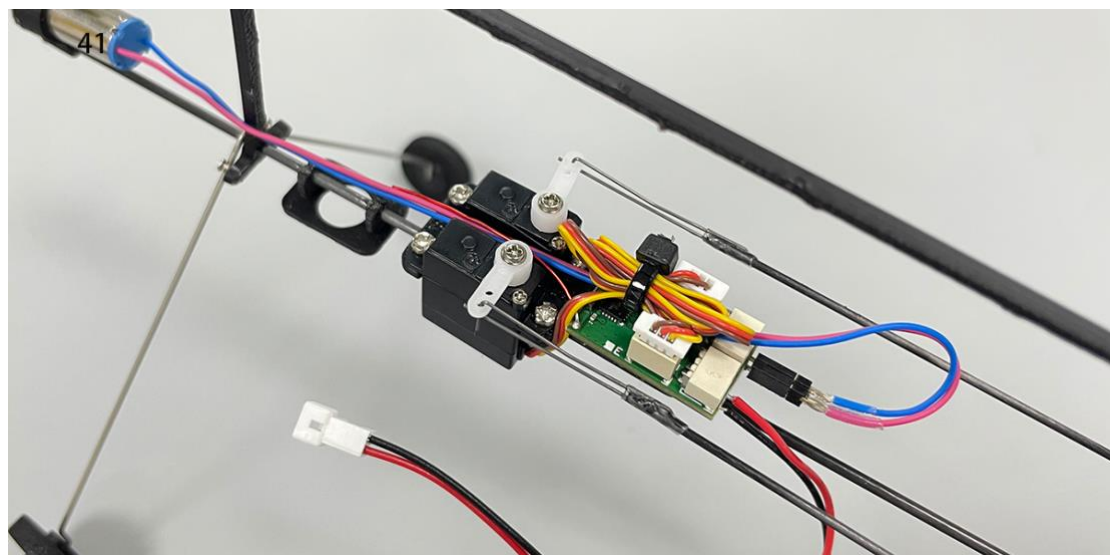
39. Cut 4 pieces of 0.5mm length heat shrink tubing to connect the push rod to the steel wire clamp. Use 1 x250mm carbon fiber rod for the push rod.



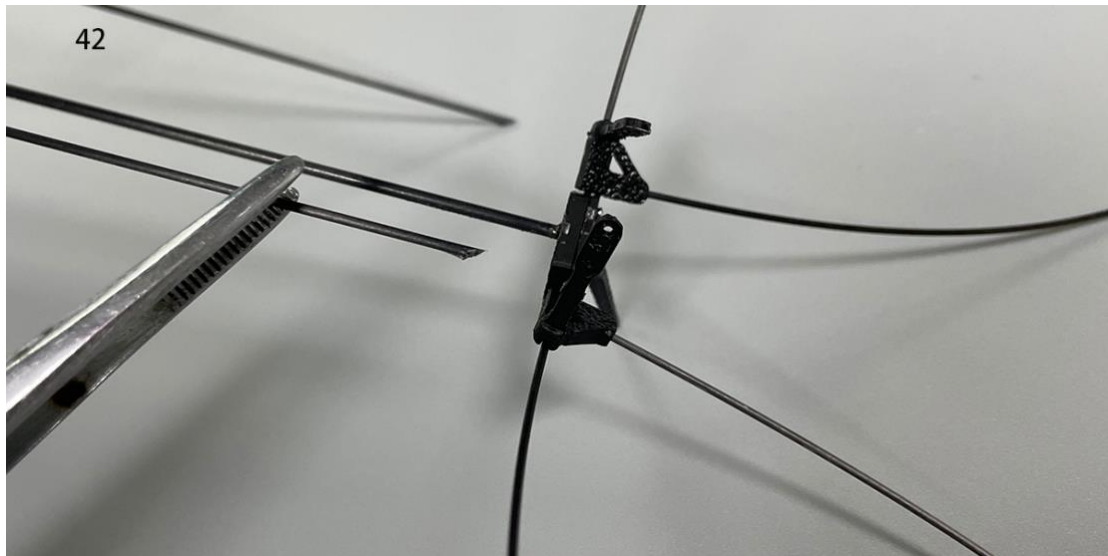
40. Use a heat shrink tubing to secure the steel wire clamp to the end of the push rod and apply adhesive to secure it.



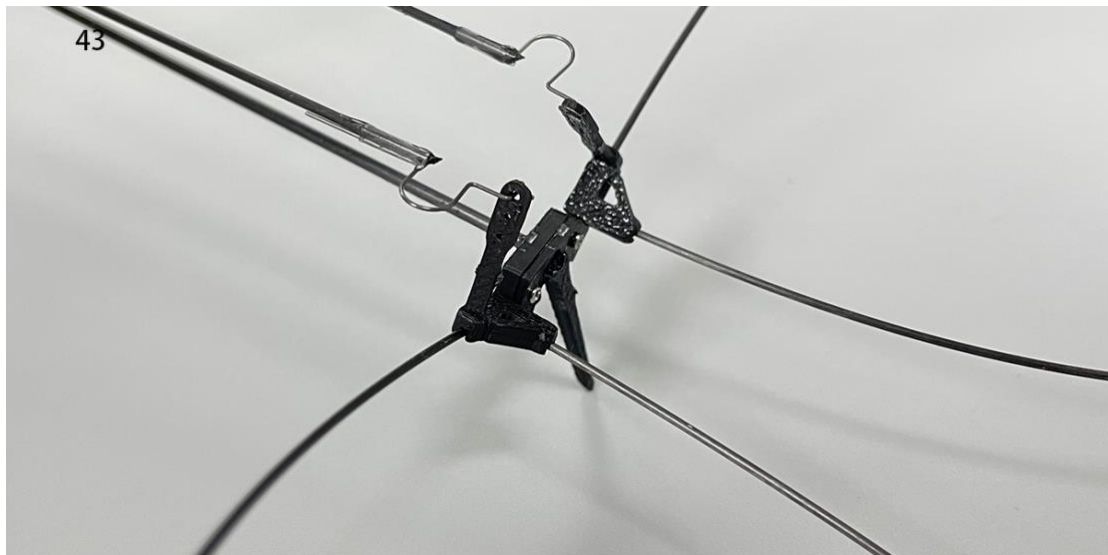
41. Connect the push rod to the servo arm using a steel wire clamp. Beginners suggest using mounting holes on the inner side of the servo arms to reduce control sensitivity.



42. Cut the end of the pull rod to the appropriate length. (In the horizontal state of the tail, the end of the pull rod should be about 10mm away from the tail)



43. Install a connecting hook on the tail, use a heat shrink tubing to connect the push rod to the connecting hook, and fix it with adhesive.



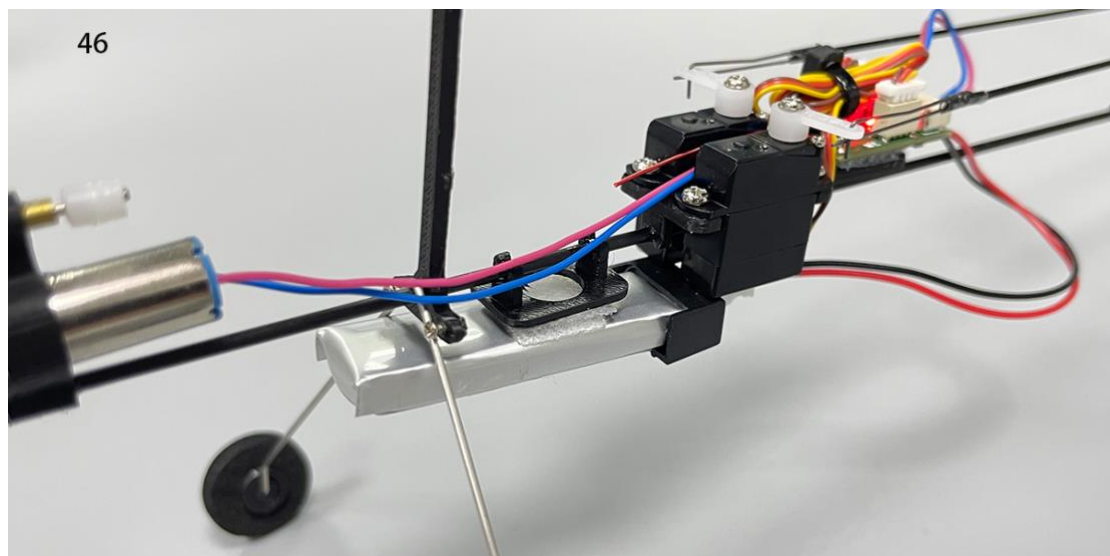
44. Propeller adapter M, propeller shaft sleeve and propeller.



45. Fix the propeller onto the motor spindle using the propeller adapter M and propeller shaft sleeve, and apply an appropriate amount of glue.



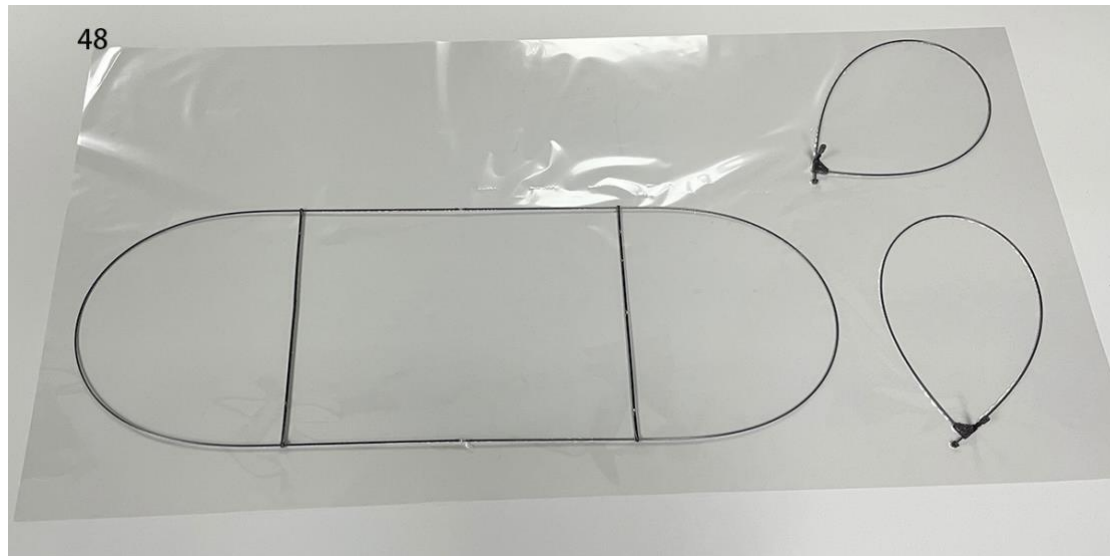
46. The battery is fixed to the battery holder using Velcro.



47. Covering method: Lay the film on a flat surface.



48. Apply glue to the skeleton and press it onto the film. (Alcohol glue is used here. 3M 77 spray glue will bring a better result.)



49. Cut the film along the edges after the glue has solidified.



Assembly complete!



Maiden flight

- The center of gravity of the aircraft is located 20mm behind the front edge of the wing.
- The active range of the tails are 8mm on both sides.
- Adjust your transmitter to V-Tail mode.
- Choose grass land for maiden flight

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