

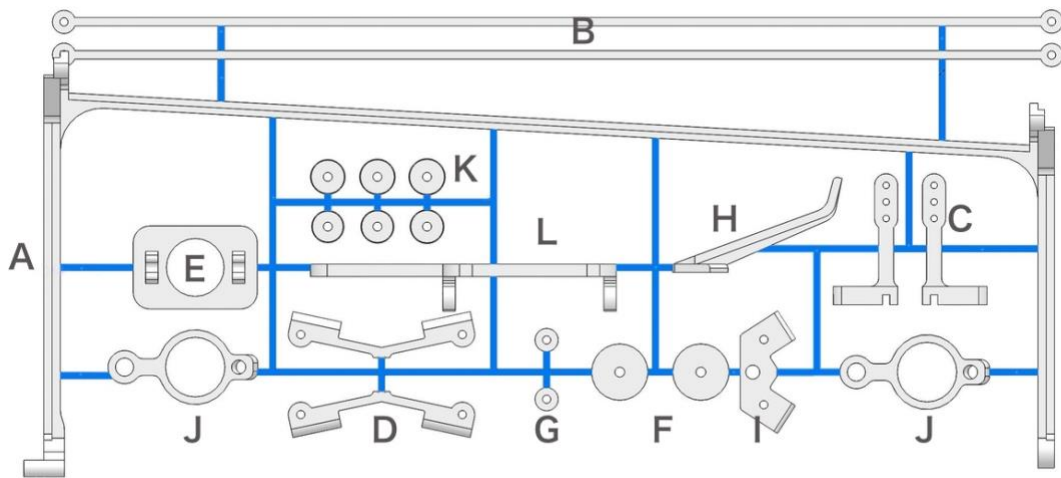
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## Butterfly V1 Assembly Instructions



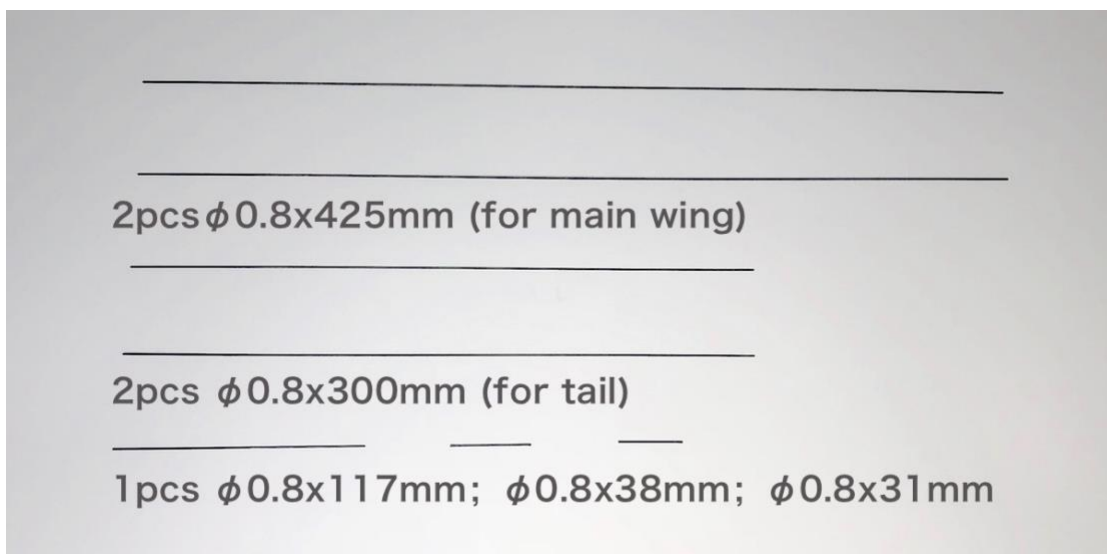
1. Cut off the connections (shown blue in the picture) and remove the parts.



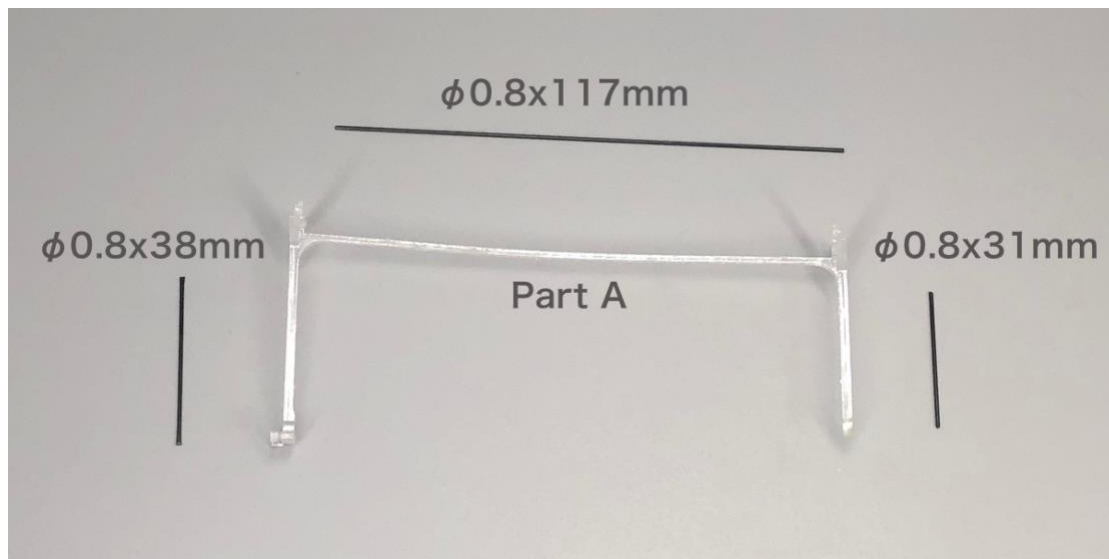
2. Use utility knife to cut carbon rods.



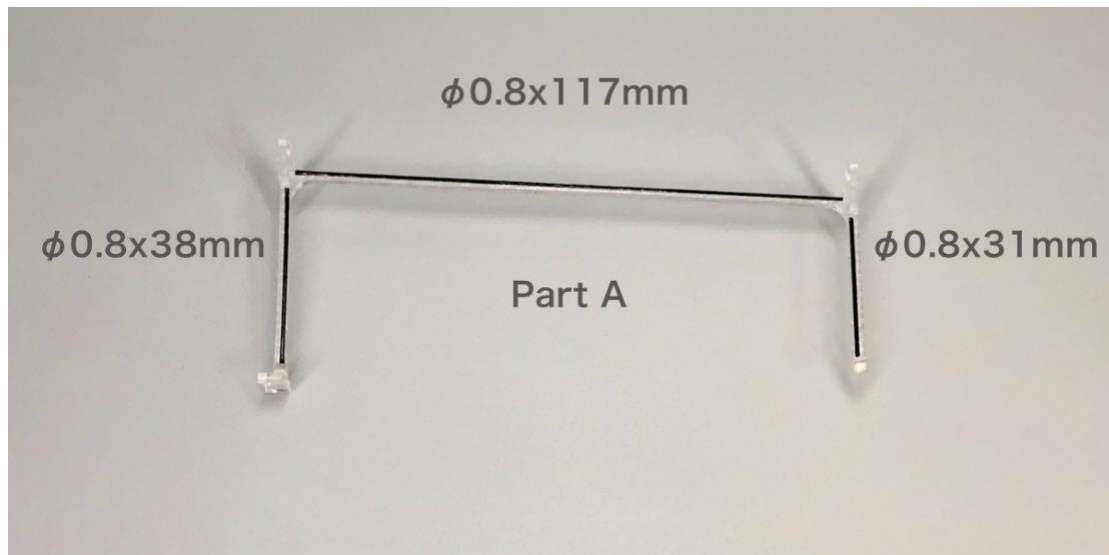
3. Divide  $\phi 0.8\text{mm}$  carbon rod into: 2x 425mm; 2x 300mm; 1x 117mm; 1x 38mm; 1x 31mm.



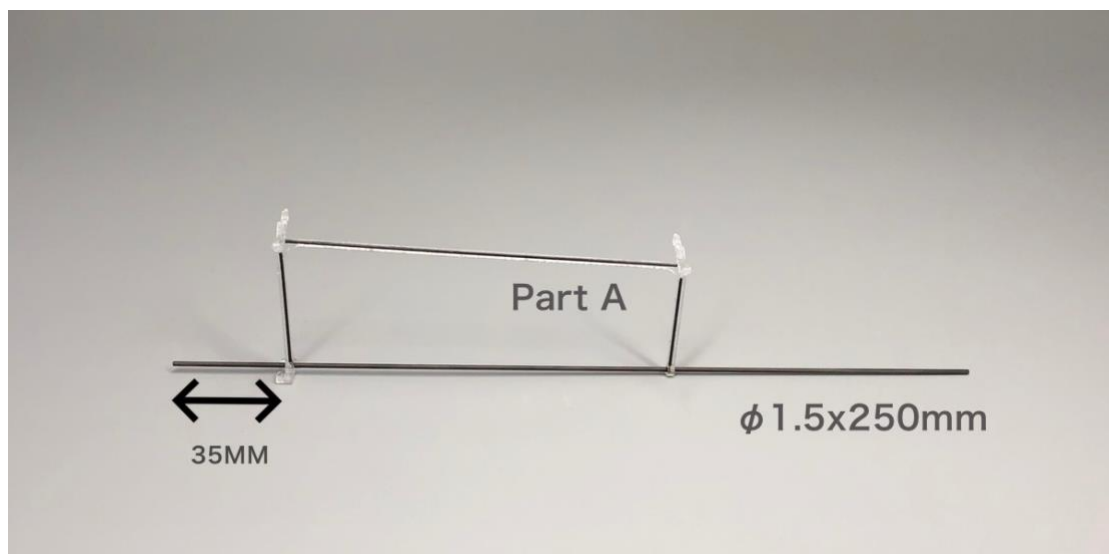
4. Use 502 glue to attach the  $\phi 0.8\text{mm}$  carbon rod to the fuselage frame.



5.

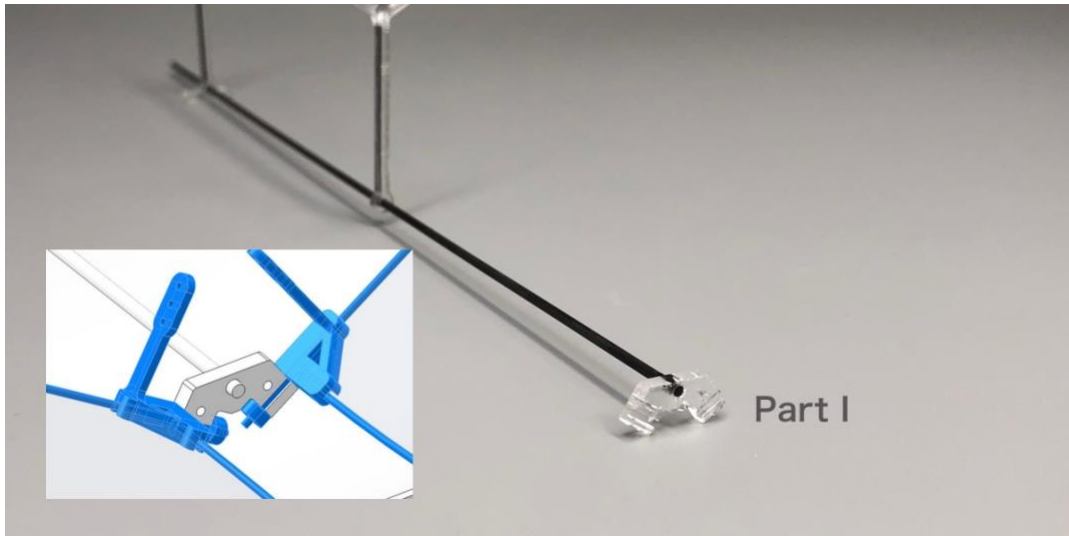


6. Insert a  $\phi 1.5\text{mm} \times 250\text{mm}$  carbon rod into the fuselage and glue it with 502 glue.

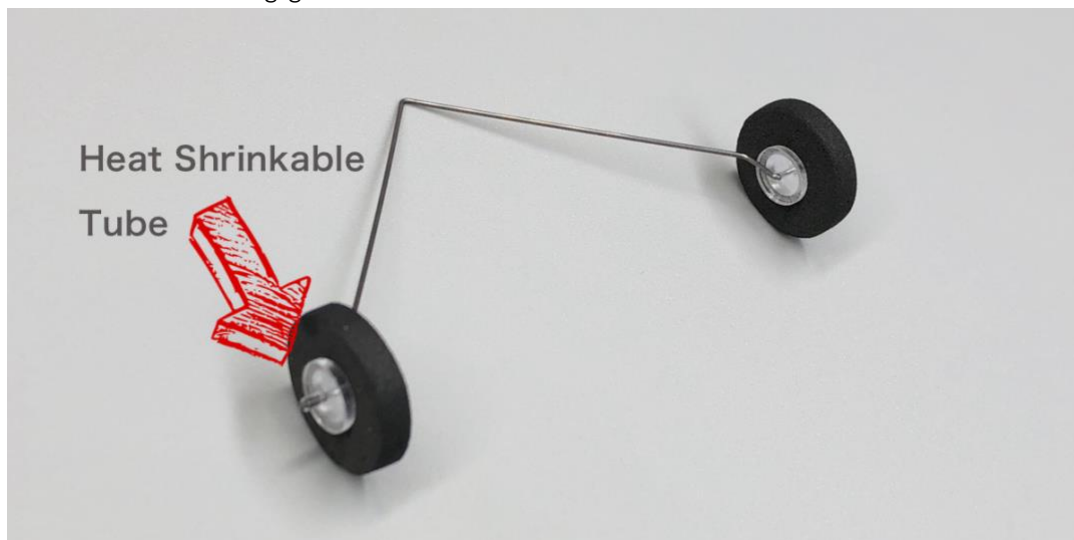


7. Install part I.

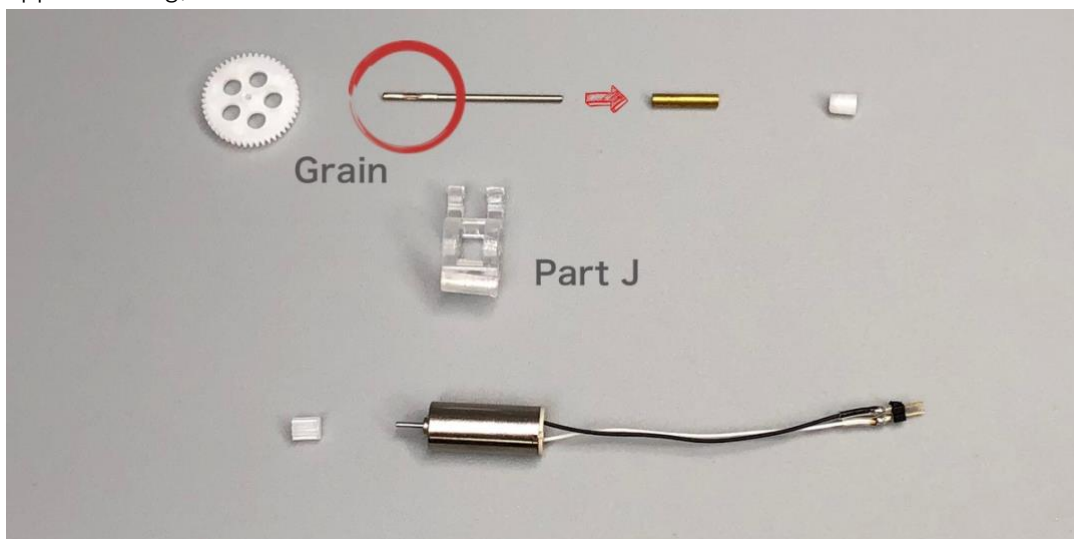
Note: Place the fuselage on a level surface to ensure part I level. The slots are facing the tail.



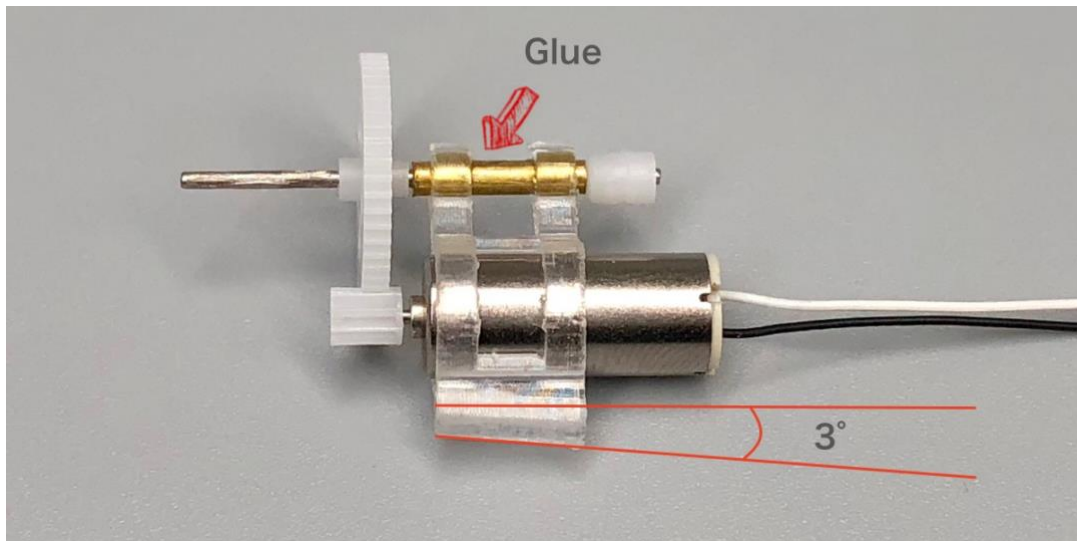
8. Assemble the landing gear. Use heat-shrinkable tube to hold the wheels.



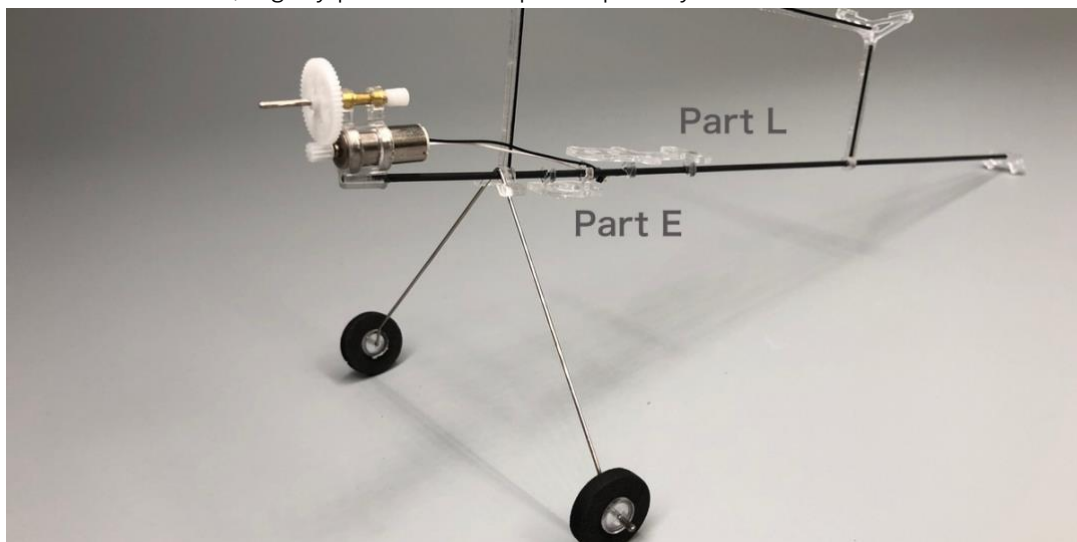
9. Combined motor unit. Note: Only the non-skid end of the shaft can be put into the copper bushing, otherwise it will be stuck.



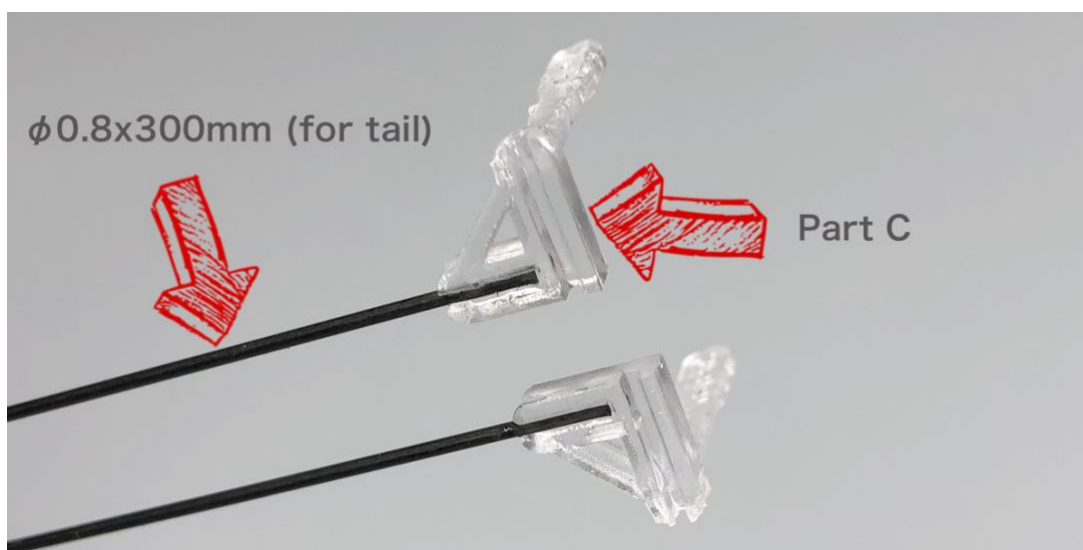
10. Use glue to bond copper bushing.



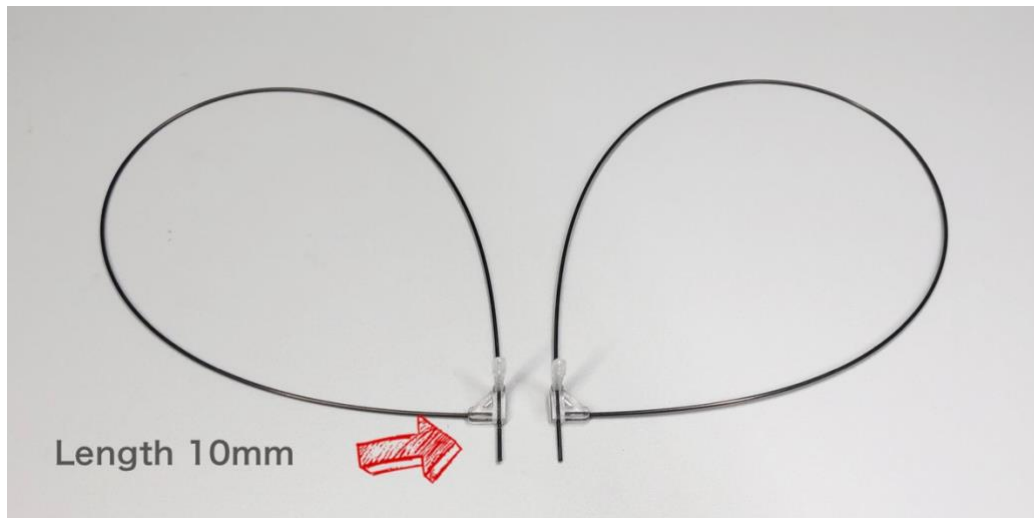
11. Install landing gear and battery seat (E), servo seat (L).  
In case of resistance, slightly polish the clamp. Temporarily not bonded.



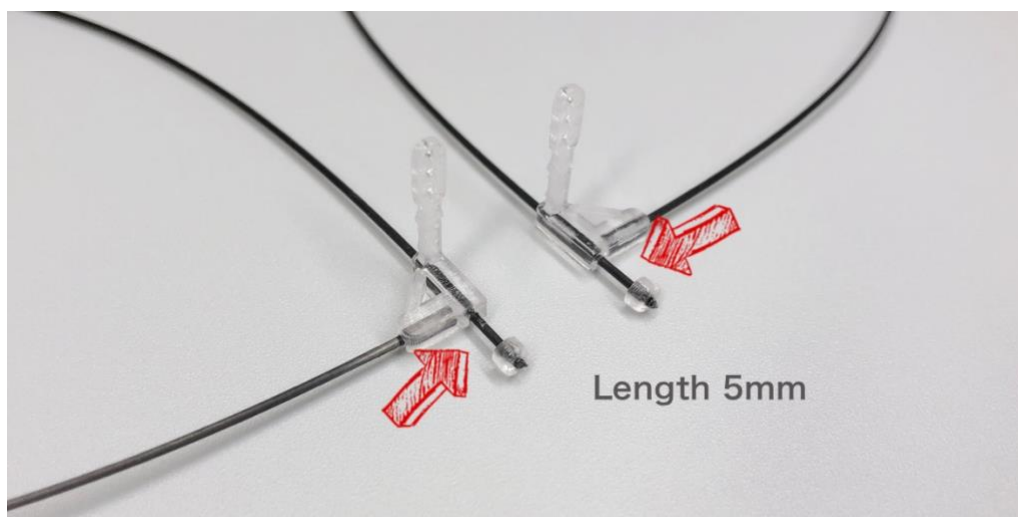
12. Take two  $\phi 0.8 \times 300$ mm carbon rods, combine with part C, and fix with 502 glue.



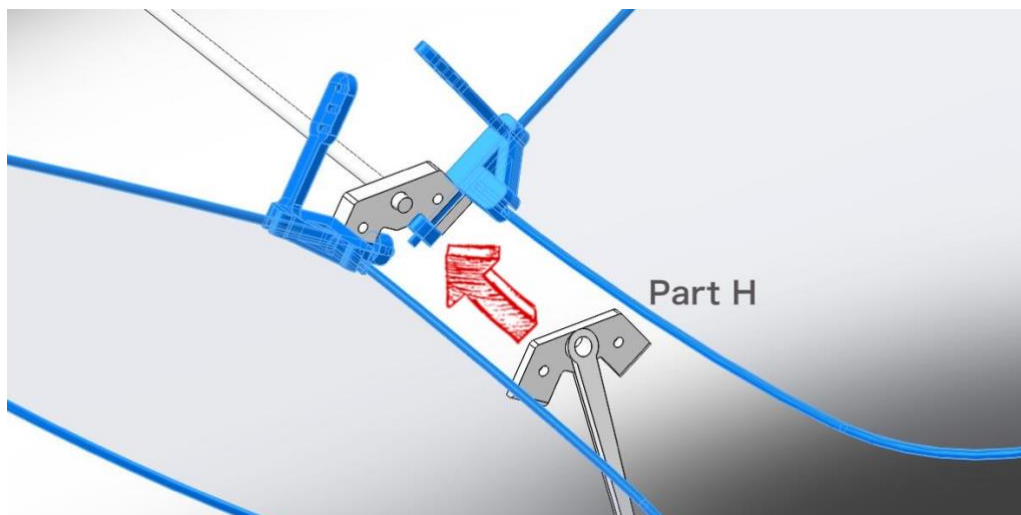
13. Bend the carbon into tail frame; The end of the carbon rod is extended by 10 mm.  
Note: The direction of carbon rod bending is confusing. Please observe the picture.



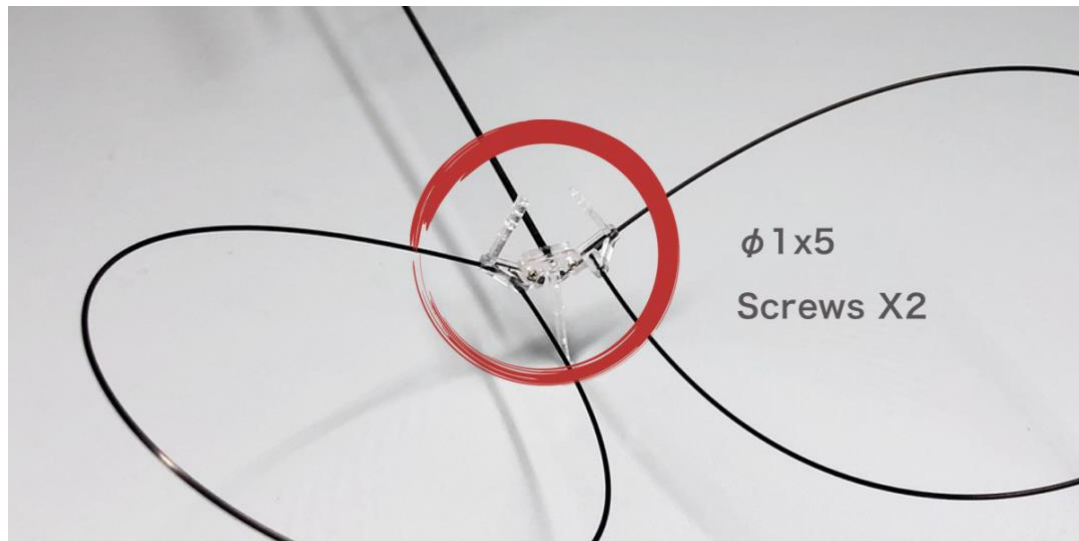
14. The carbon rod end stopper (part G) has a gap of 4-5 mm between the stopper and the bracket. (Please read step 13 before bonding)



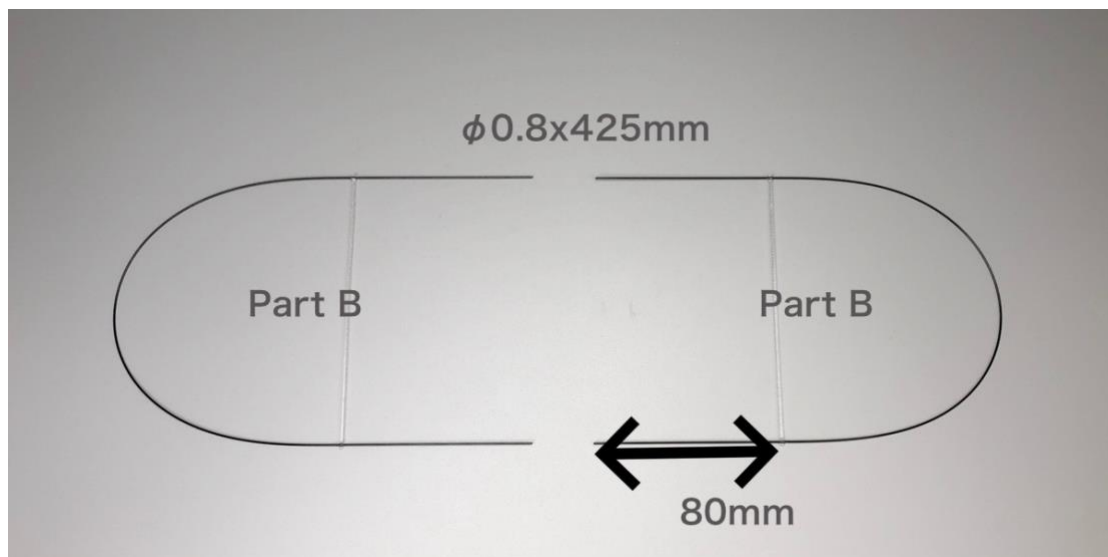
15. The root of the tail fin needs to be inserted into the groove of part I, and it can rotate freely without sticking. Excess carbon rods are removed at the end.



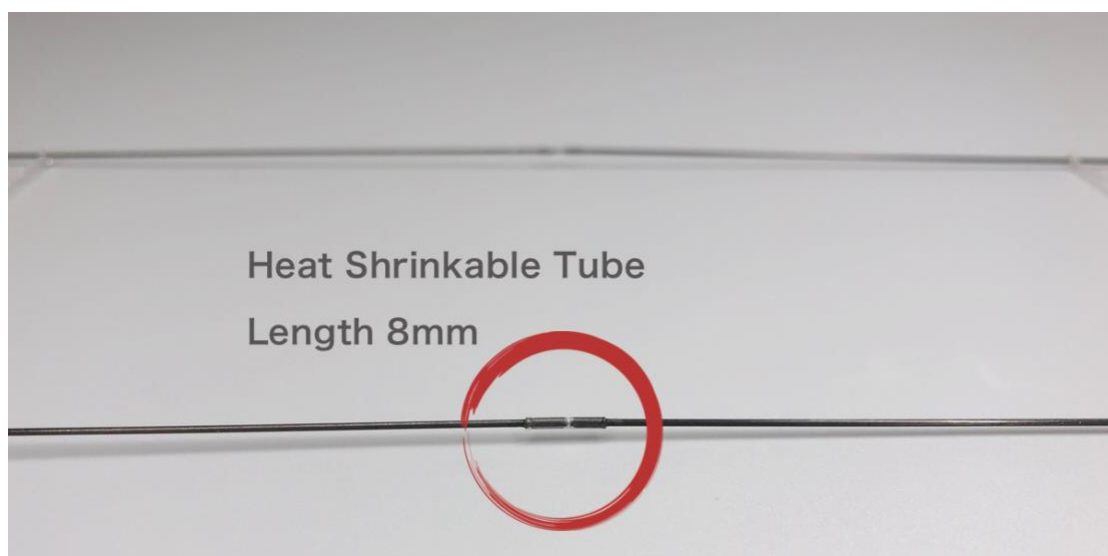
16. Use the screws to secure part H to form a full-motion V-tail.



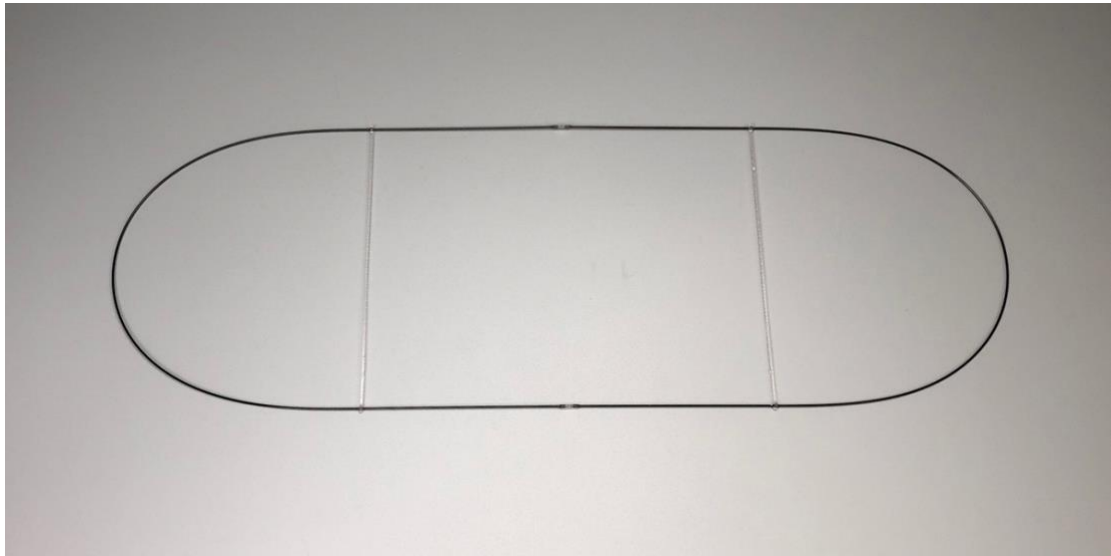
17. Two  $\phi 0.8 \times 425 \text{ mm}$  carbon rods were taken and combined with Part B to form a wing. Both ends of the carbon rod are 80 mm apart from part B.



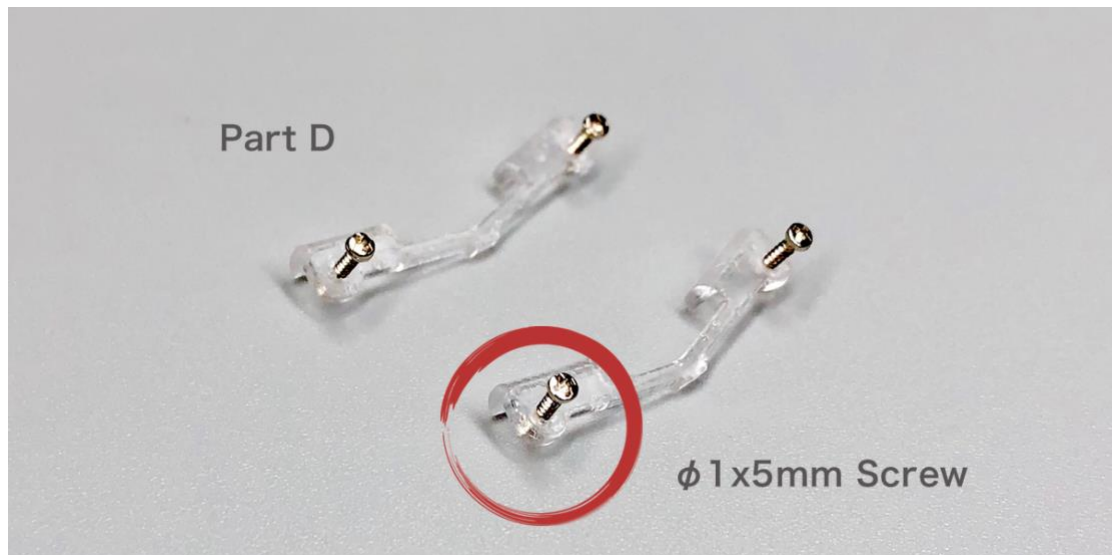
18. Use heat-shrink tube to connect the wings on both sides and glue with 502 glue.



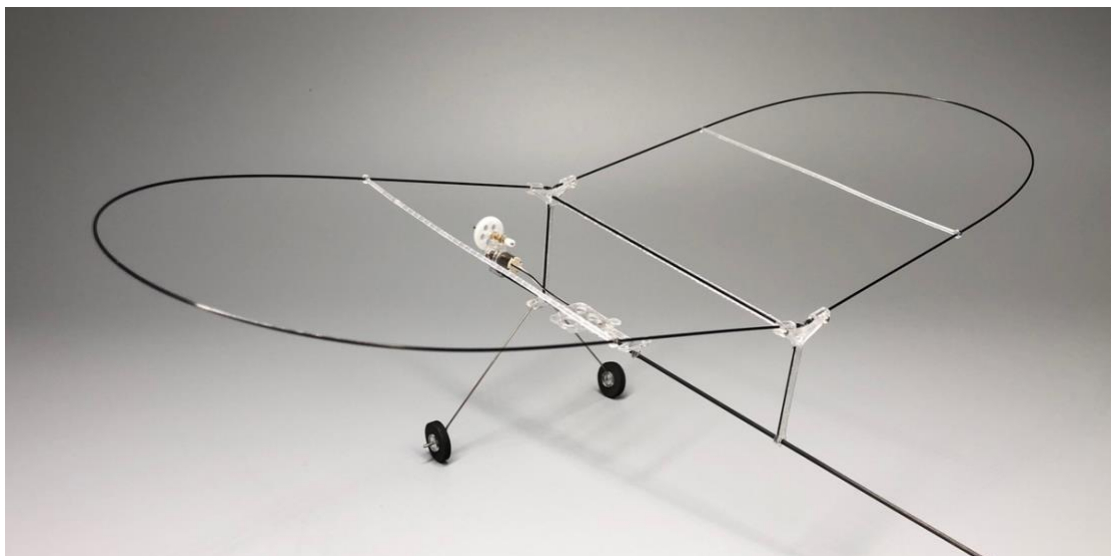
19.



20.



21. Use part D to secure the wing.

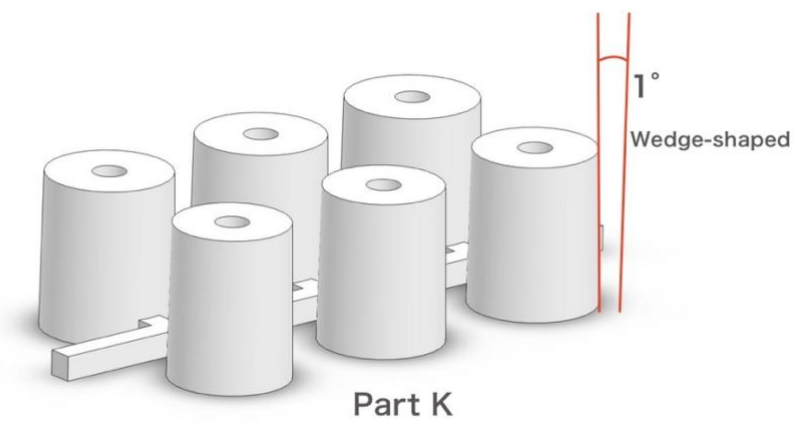




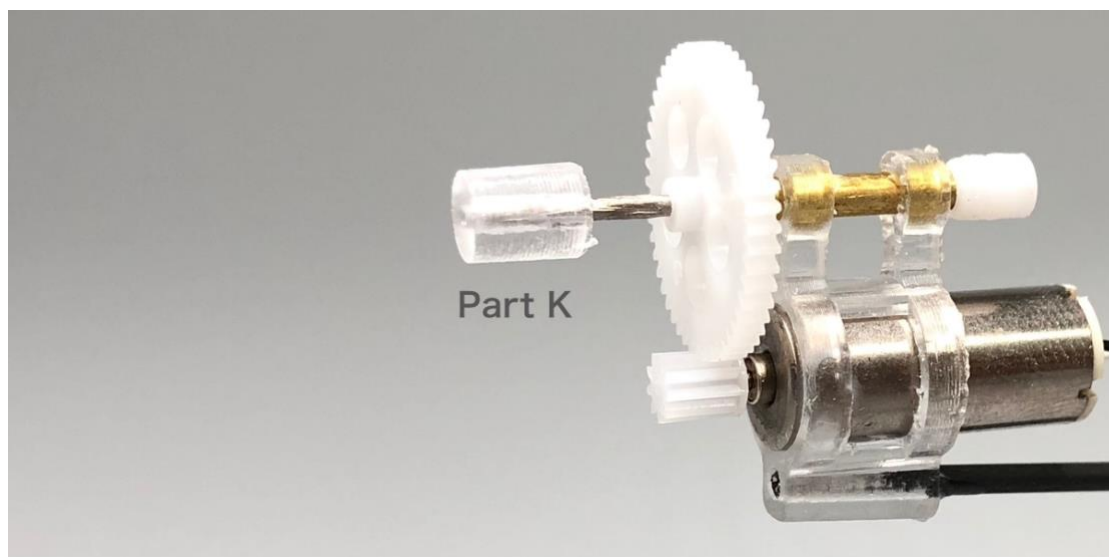
22.



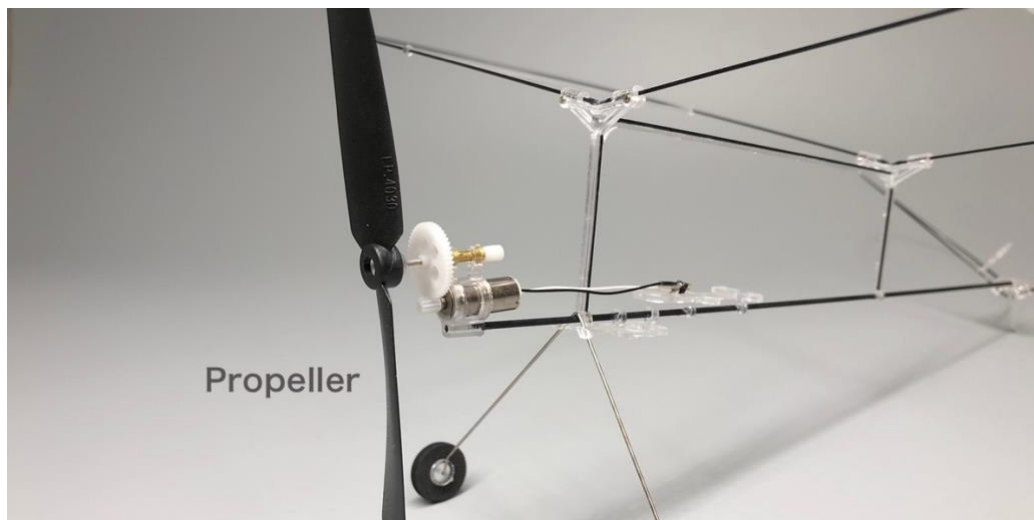
23. Six propeller adapters (K) have different diameters. Please choose the optimum size according to the propeller aperture.



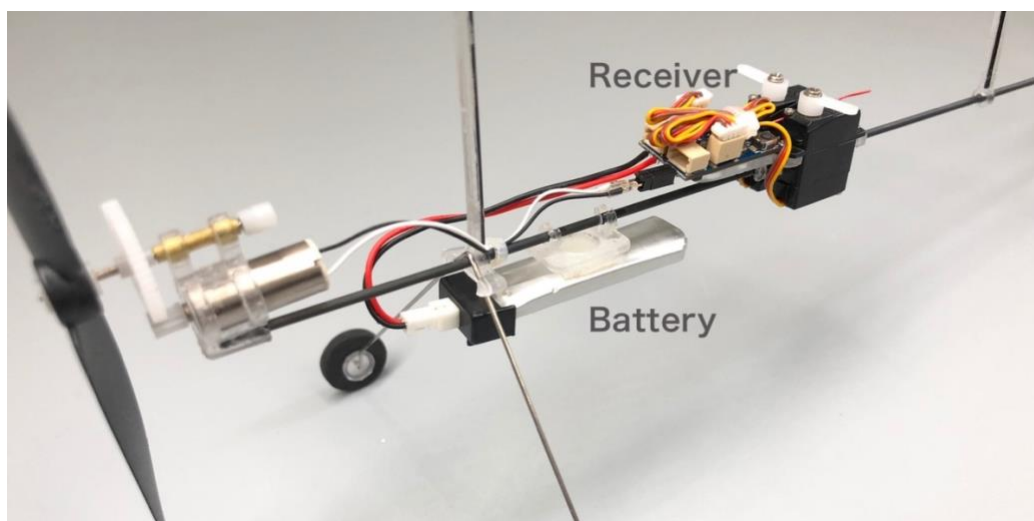
24. The propeller adapter is wedge-shaped and is installed with the smaller end facing forward.



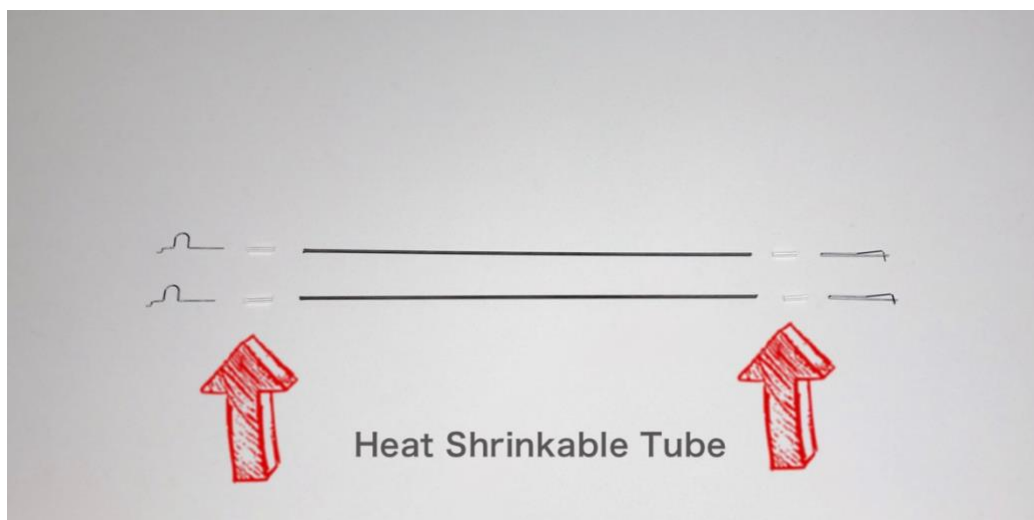
25. Install the propeller.



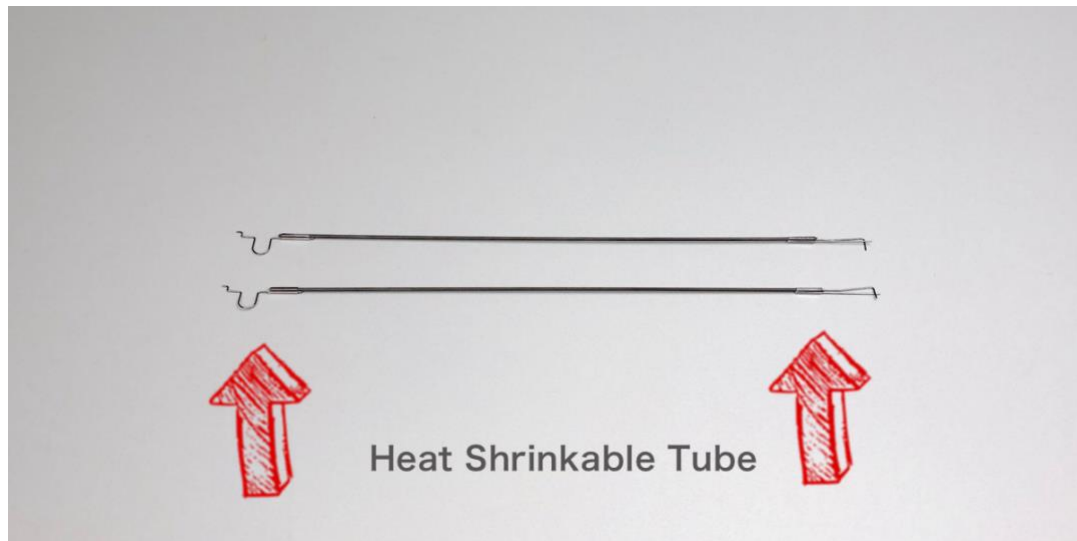
26. Install the servos. Use Velcro to attach the battery and receiver. Adjust the center of gravity to 40mm back from the leading edge of wing, glue the mounting base.



27. Use heat-shrinkable tube to connect the  $\phi 1\text{mm}$  carbon rod to the clips. Note: The length of the push rods needs to be cut according to the actual demand.

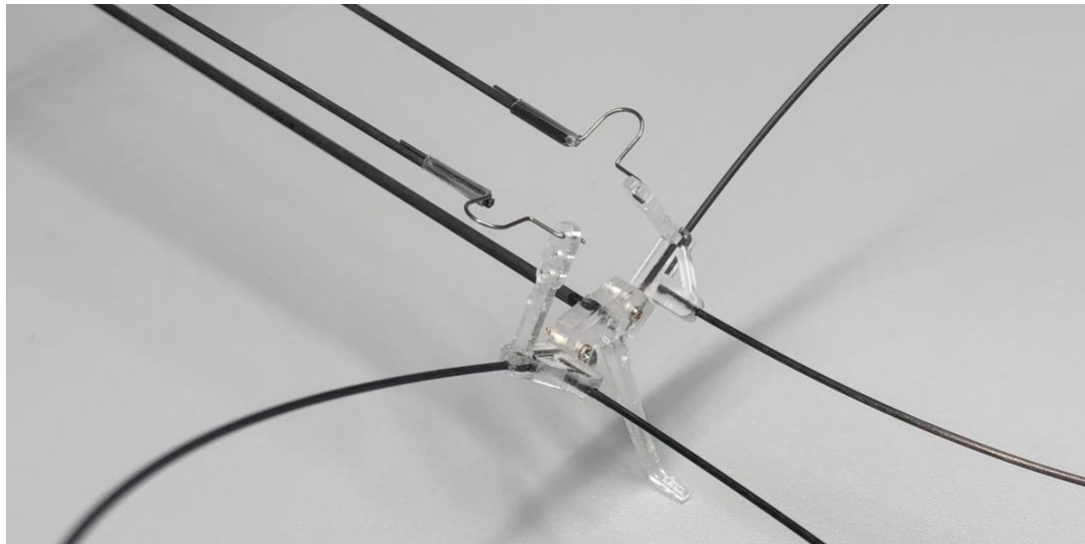


28.

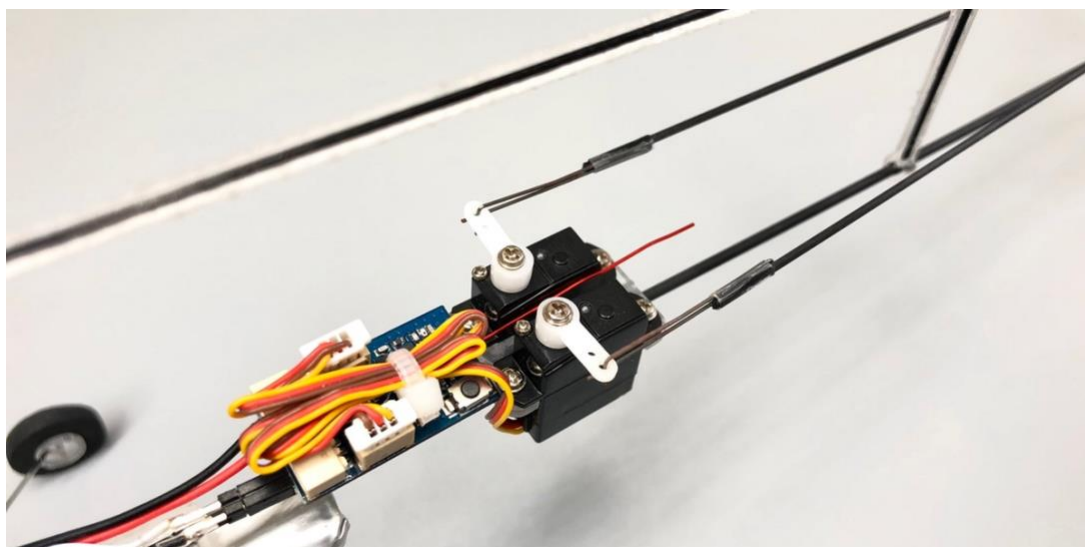


29. Connect the push rods to the tail.

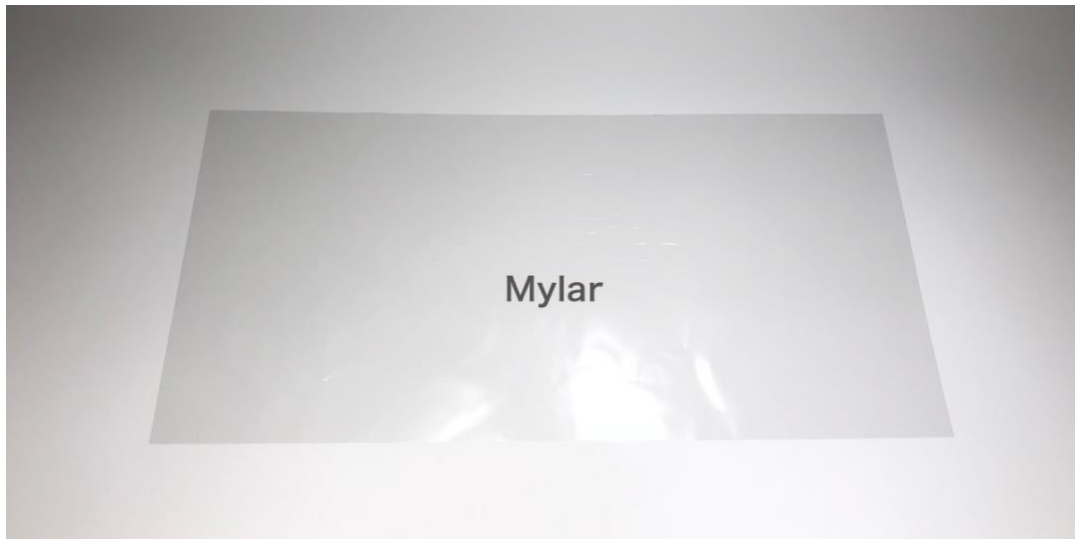
It is recommended to use the connection hole at the top of the rudder arm.



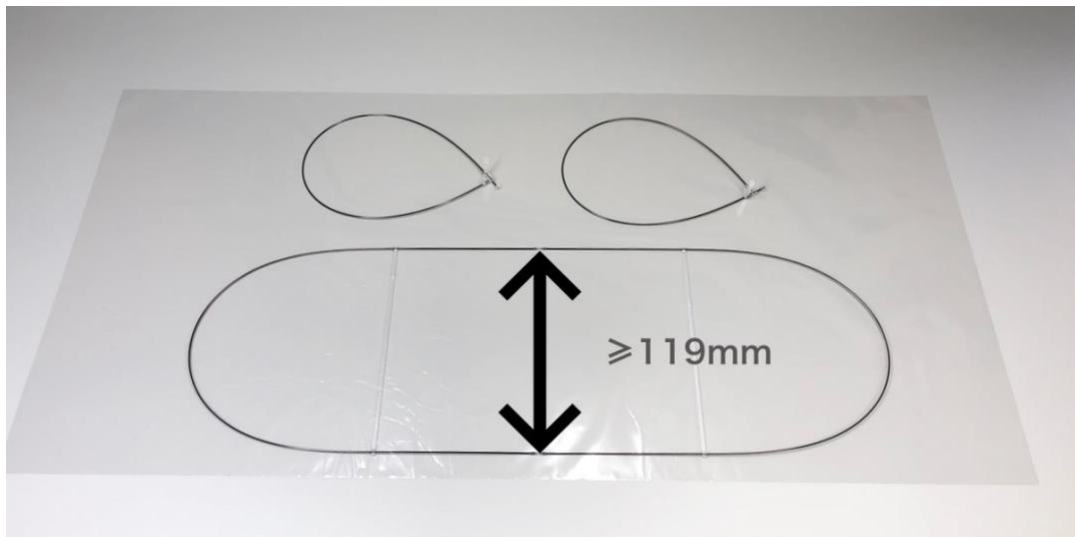
30. Connect the pushrods to the servos.



31. 【Film coating method A】 Spread the film on a flat surface.



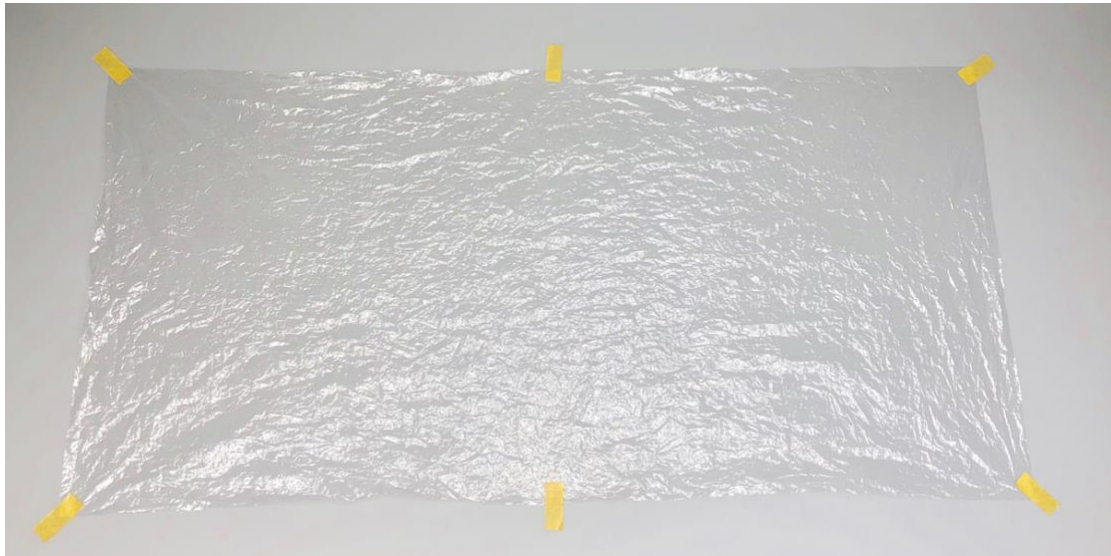
32. Note that the center width of the wing (inside the carbon rod) must be greater than 119 mm. Coat the wing & tail frame is with 7140 glue and paste them. (Optional 3M 77 spray)



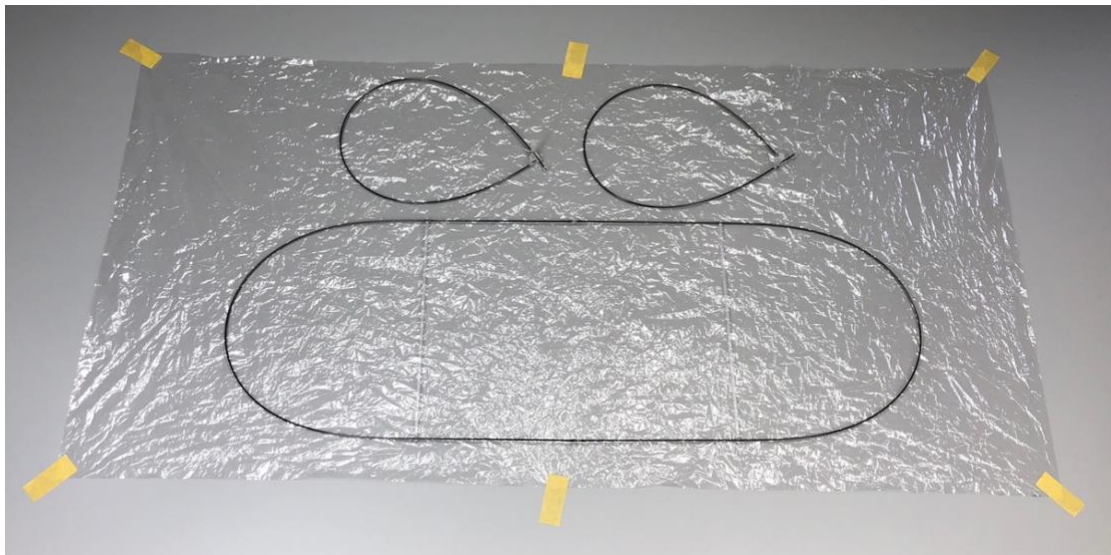
33. The excess film is cut along the outside of the profile to obtain a complete wing & tail. When the wing is installed, the film side is facing up.



34. 【Film coating method B】 Twist the film and straighten it to a flat surface.



33. Paste the wing & tail frame.



Assembly completed!



First test flight

1	Set the transmitter to V-tail mixing mode: ·Push/pull the elevator control stick, and the tails on both sides tilt up/down at the same time. ·Push/pull the rudder control stick, and the tails on both sides tilt left/right at the same time.
2	When the control stick is at the central point, the tails on both sides are parallel to the tail of the fuselage
3	Adjust the center of gravity to the 30%-50% position of the leading edge of the wing.
4	The full-motion tail is exceptionally sensitive and it is recommended to reduce the channel travel to 80%.

Enjoy your flight!

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