MinimumRC™

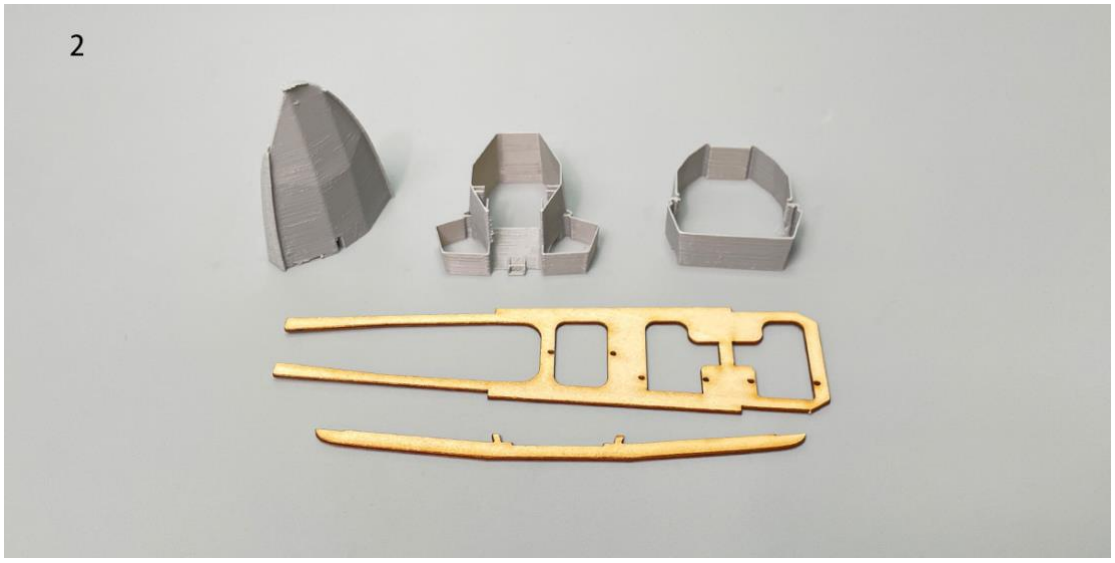
P-80 Shooting Star
Assembly Instructions

Important Instructions

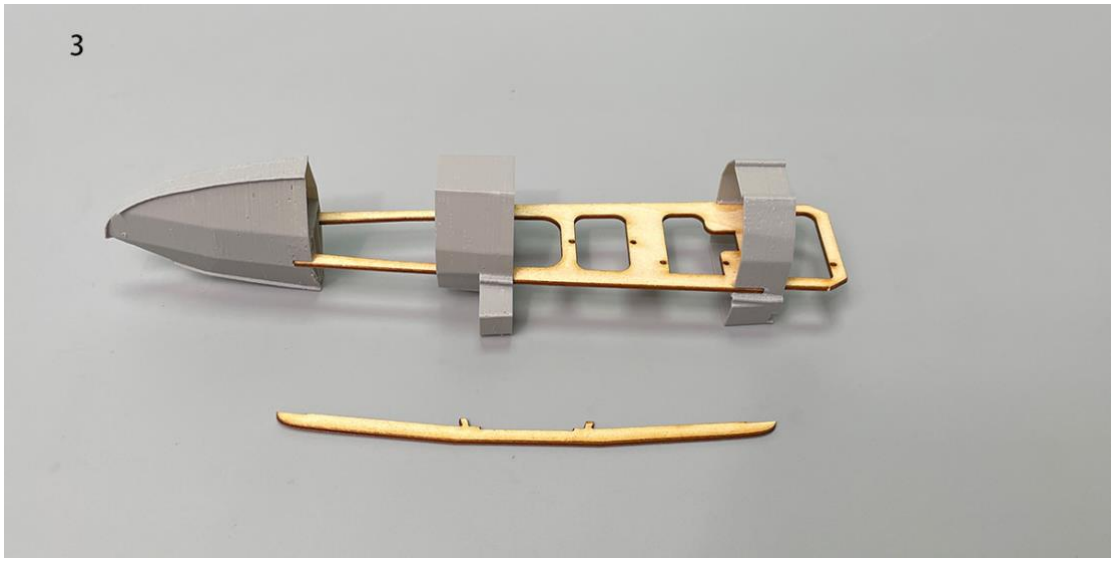
1.The model is supplied with UFO and 502 glue. UFO is for bonding foam parts, and 502 for bonding wood, carbon fiber and metal parts. 502 glue will cause serious corrosion to foam parts.
2.Please wait for the glue to dry and solidify in each installation step before the next installation.
3.Please avoid 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.

1. Wooden display rack.

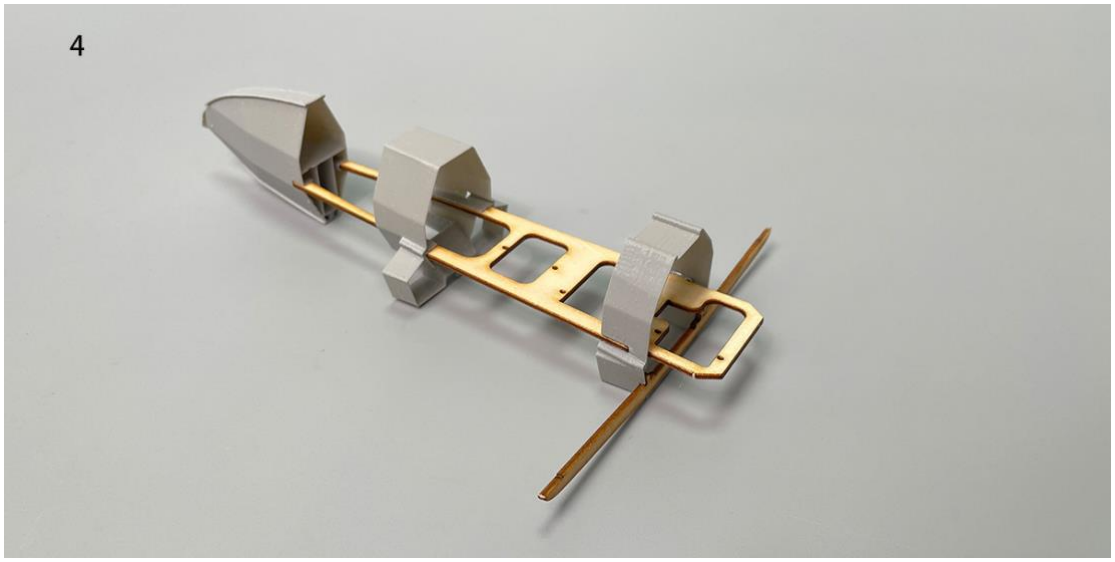
2. Fuselage wooden frame parts and printed components.



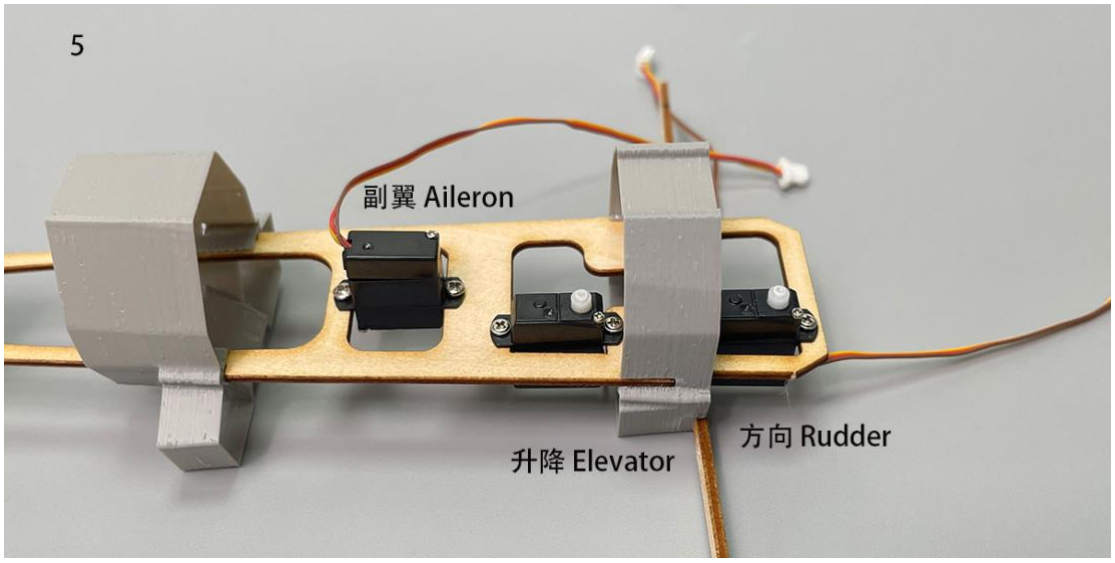
3. Assemble the fuselage wooden frame parts and printed components.



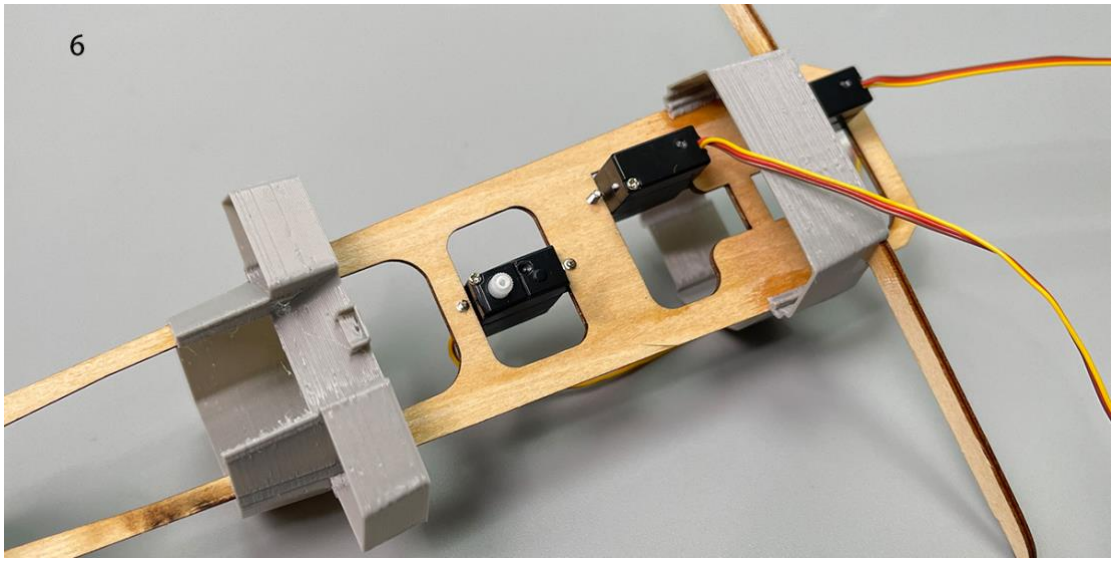
4. Install wooden beam.



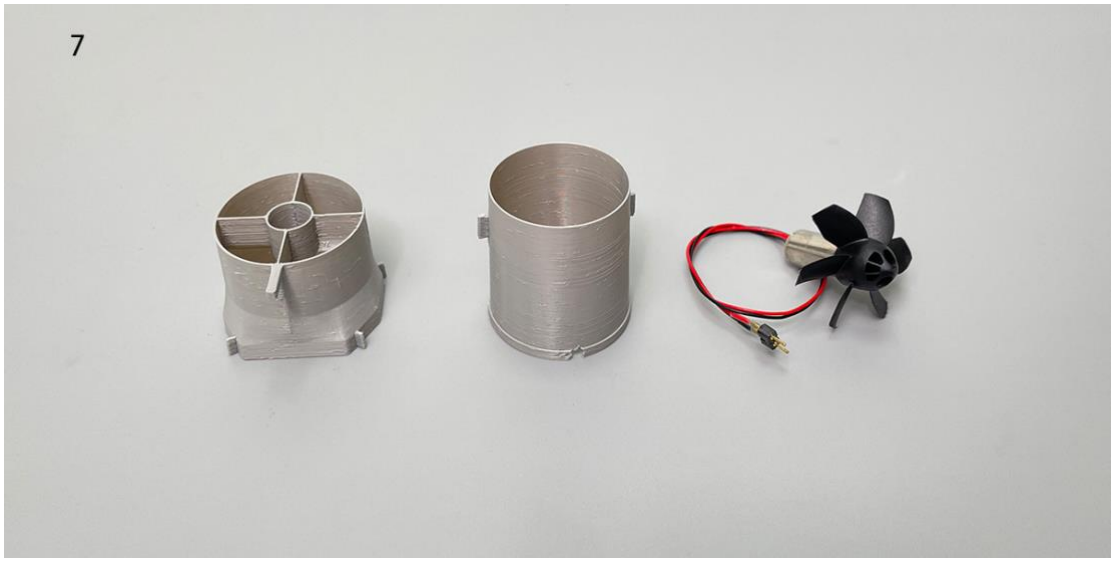
5. Install the servos (top view of the parts).



6. Install the servos (bottom view of the parts).

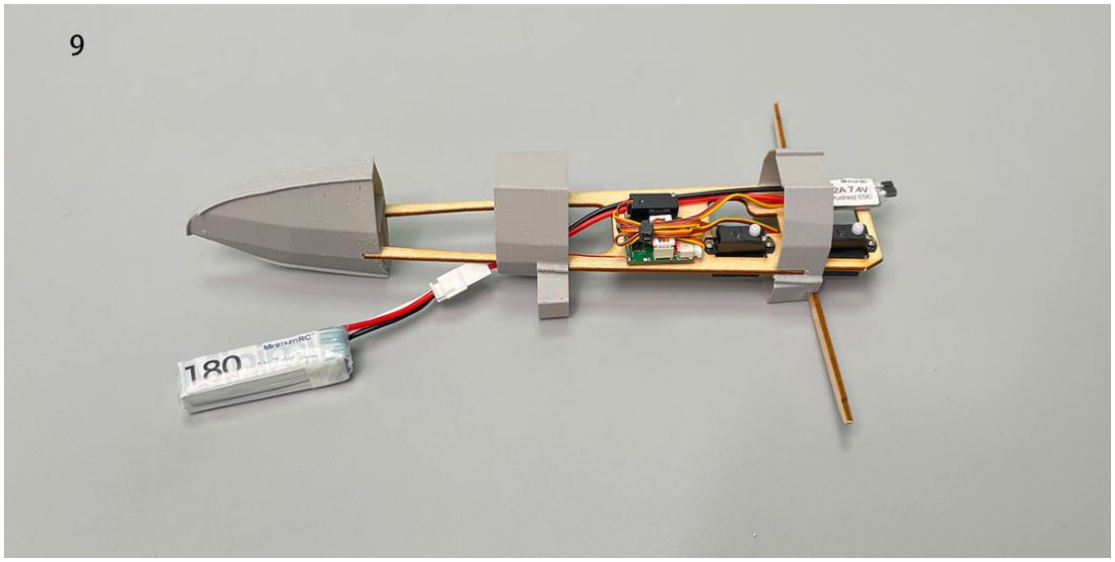


7. Duct components. Install the propeller by applying force at the center of the motor's bottom cover to avoid damaging the motor. Ensure that the propeller is fully seated and secured in place.

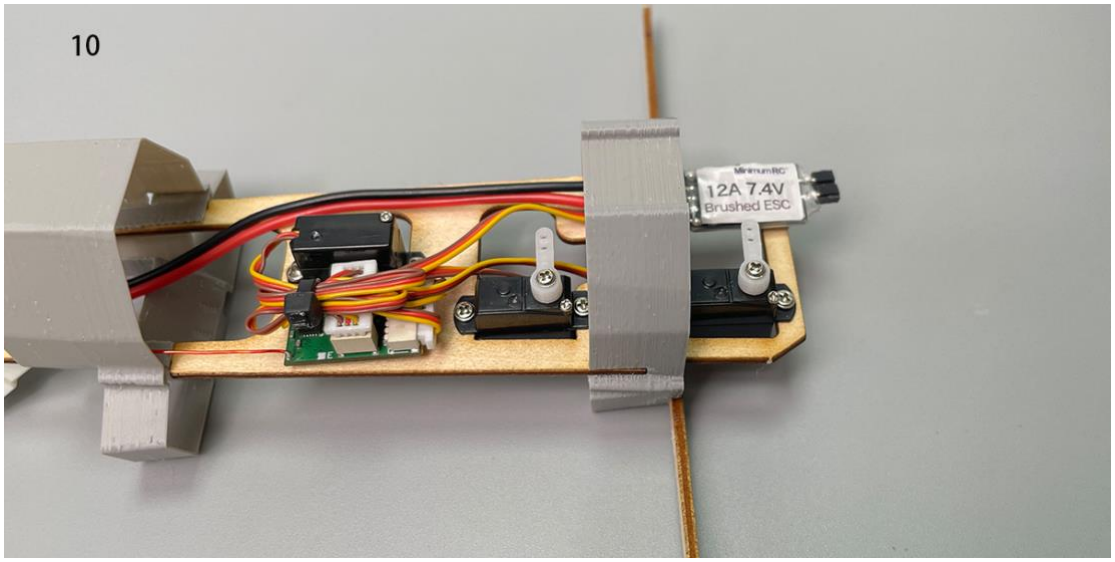


8. Assemble the motor with the duct printed part, adjusting the motor installation depth to ensure the propeller blades are as close to the support as possible and rotate freely (insufficient proximity can significantly affect thrust). Use adhesive to secure the motor from the rear end. Thread the motor cables through the wiring hole (As shown in the diagram).

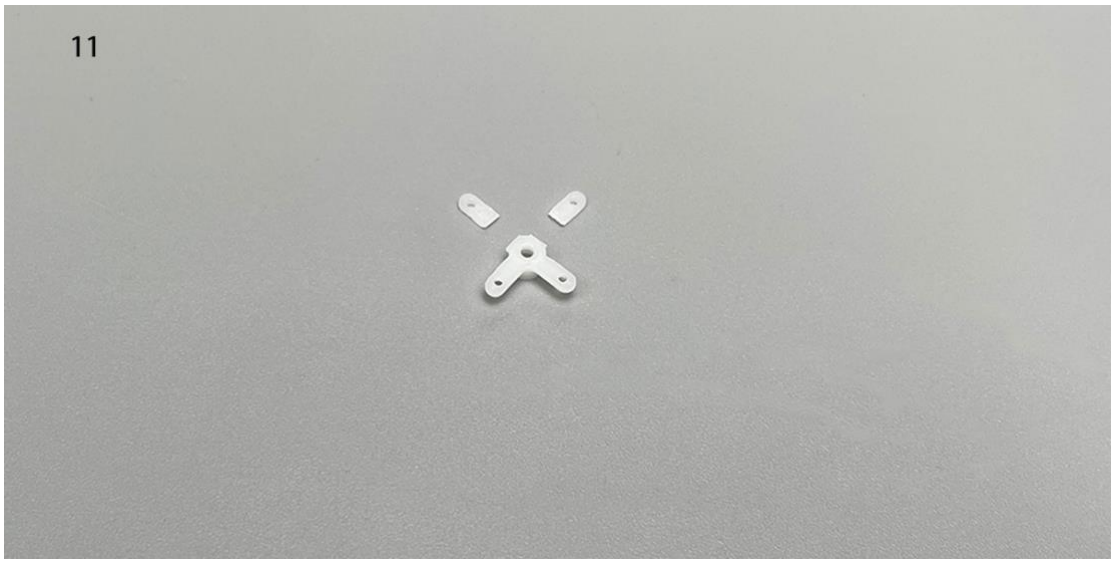
9. Connect the ESC and servos to the receiver. Bind the receiver to the transmitter to ensure the servos are functioning properly.



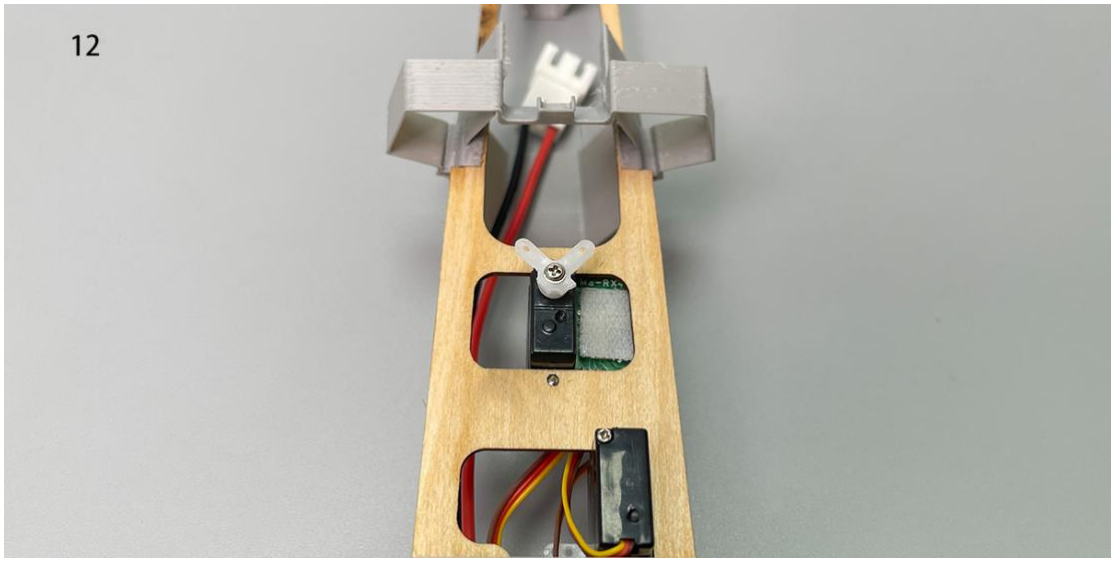
10. Install the servo arms in the direction shown in the diagram.



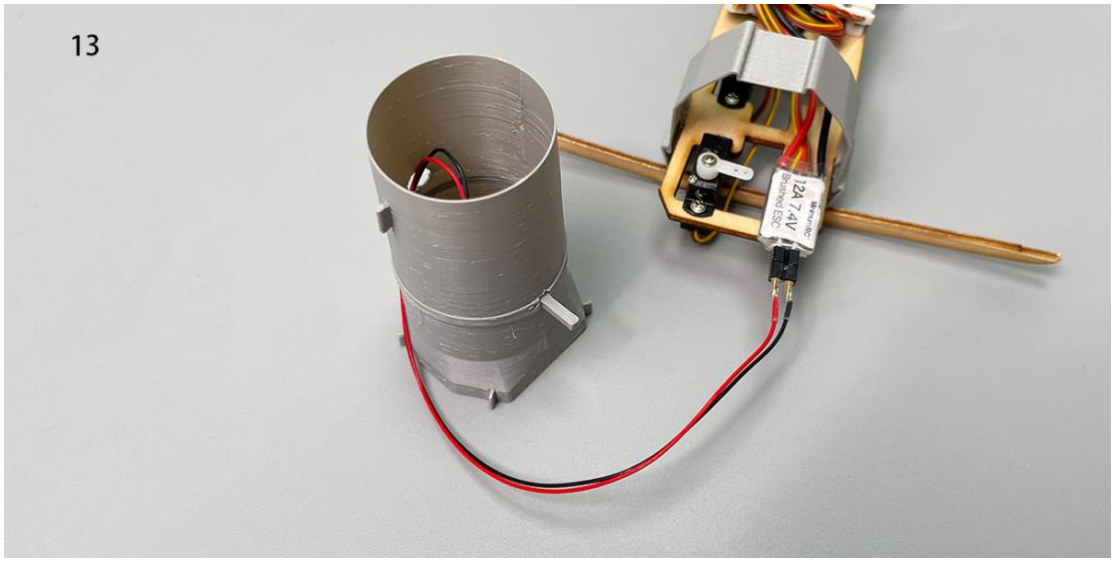
11. Remove the two adjacent arms of a cross-shaped arm (as shown in the diagram).



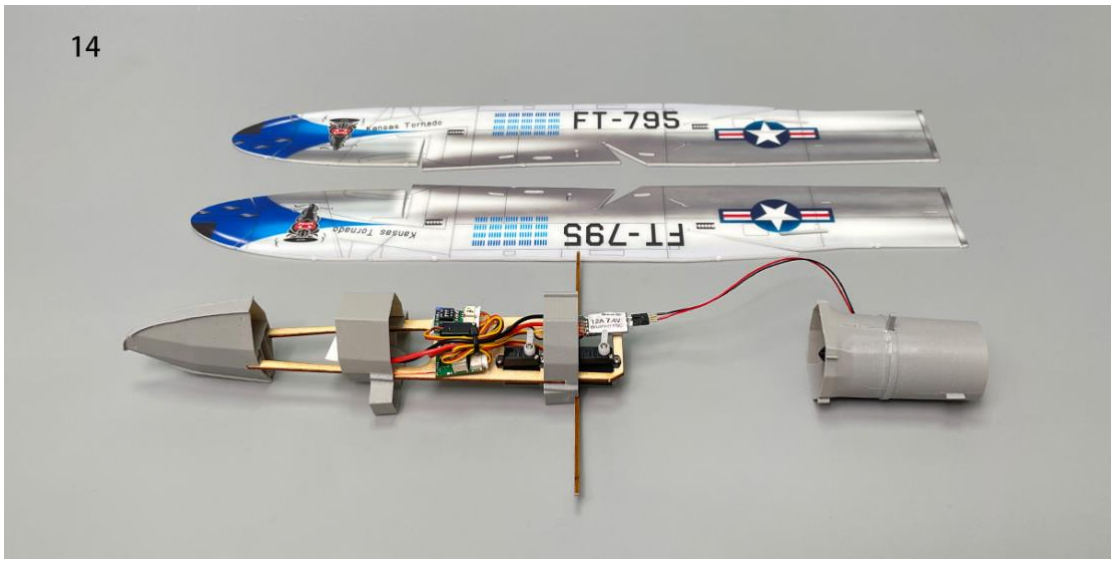
12. Install the servo arms onto the aileron servo (As shown in the diagram).



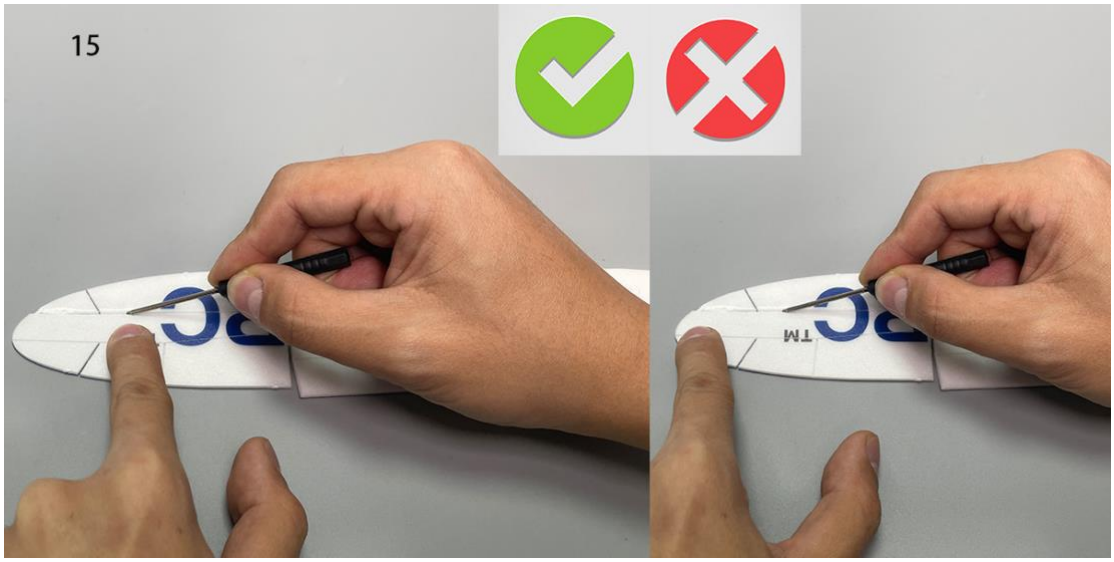
13. Connect the motor wires and power up to test if the motor rotates in the correct direction.



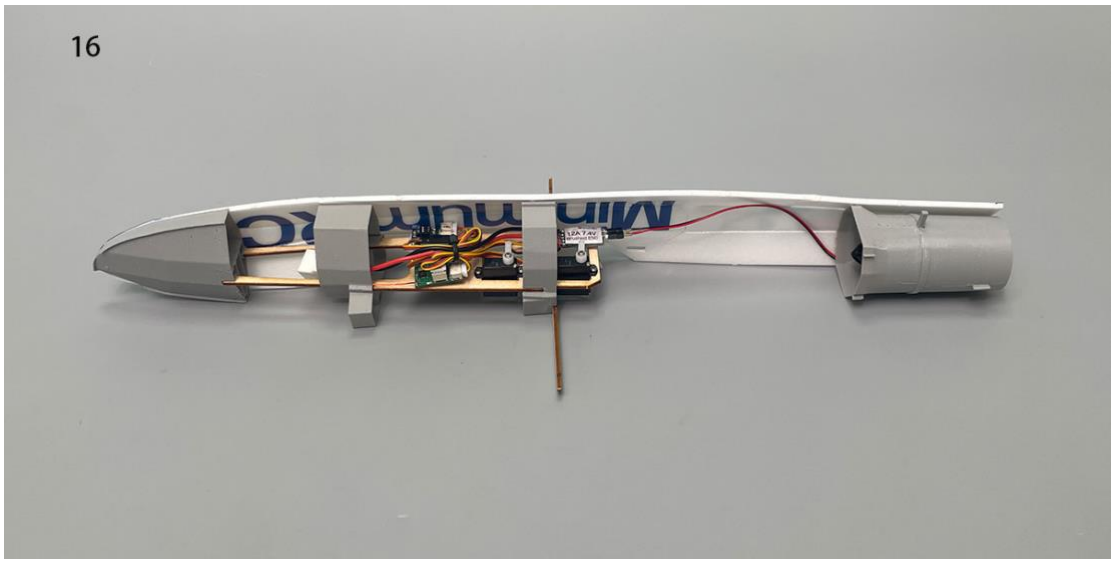
14.



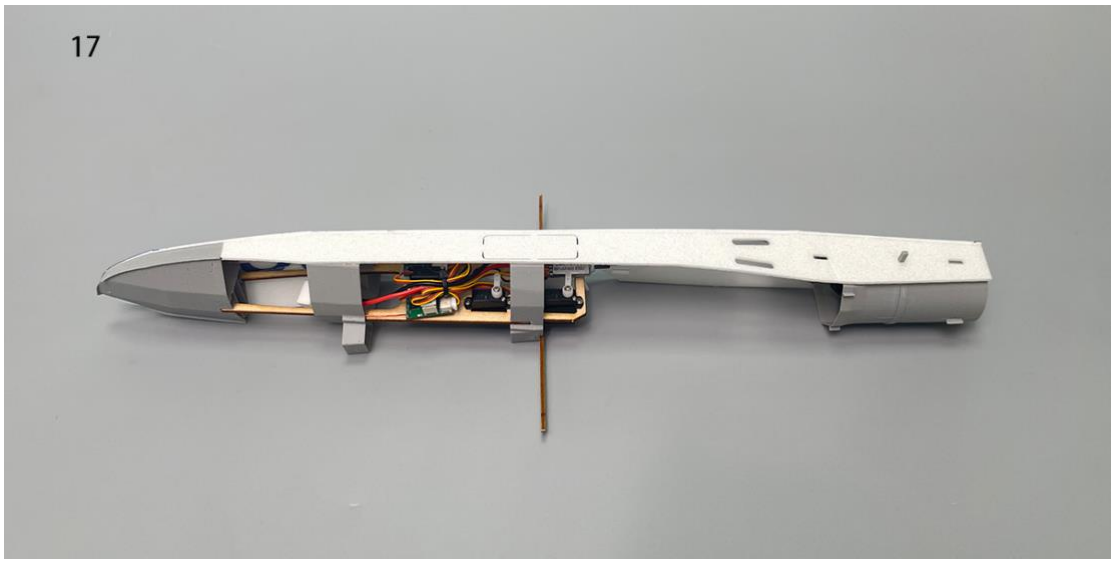
15. Use a sharp tool (screwdriver) to score through the marked lines on the inner surface of the fuselage. Caution: when performing these operations, make sure to press on the part closest to the engraving lines to avoid tearing the components (as shown in the diagram).



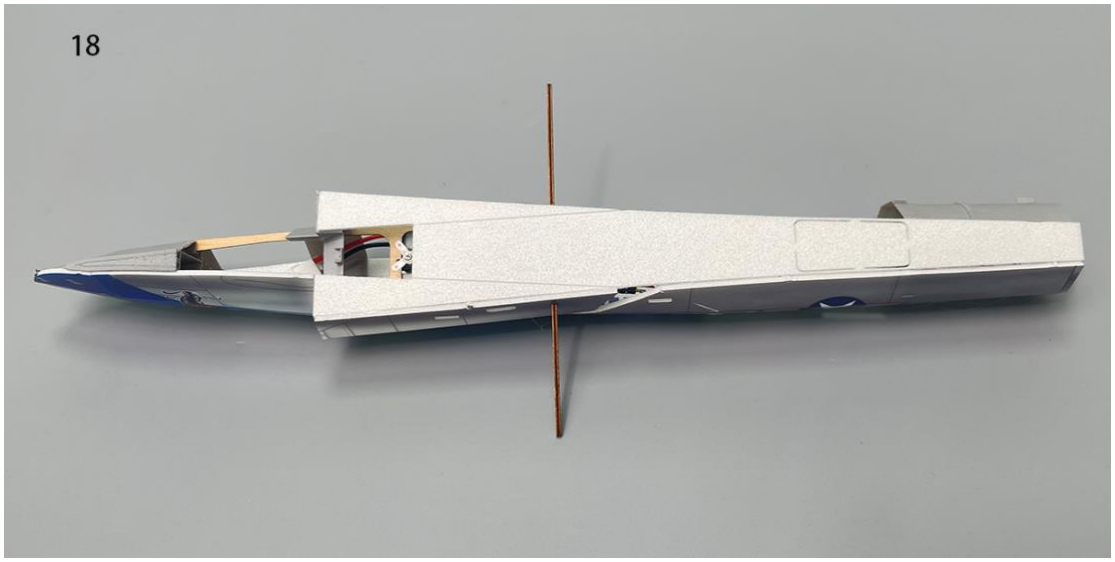
16. Assemble one side of the fuselage, the wooden framework, and the duct with glue.



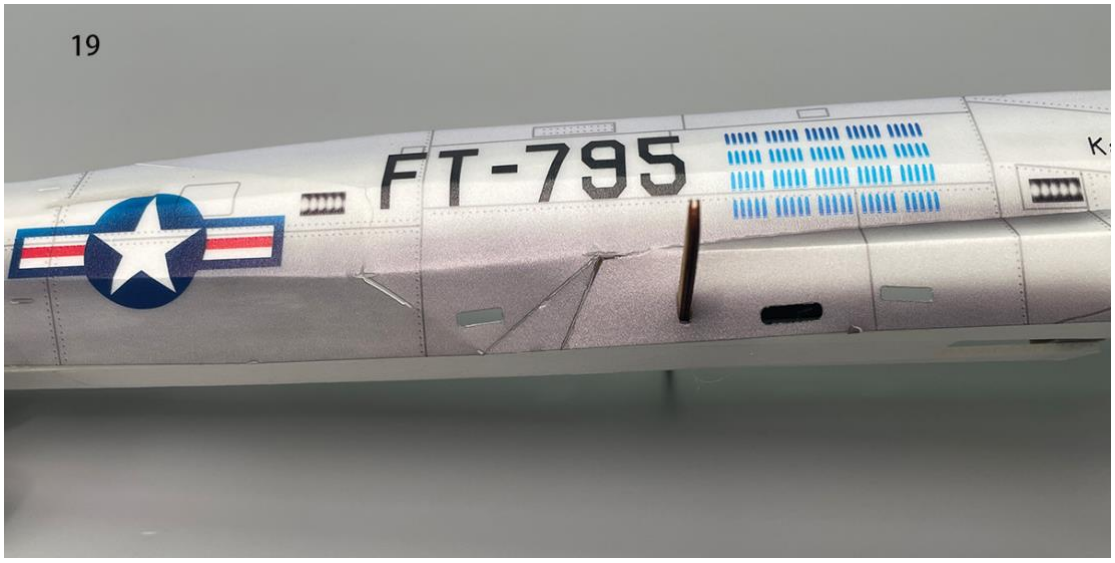
17. Install the foam panel parts on the top of the fuselage.



18. Install the foam panel part on the bottom of the fuselage.



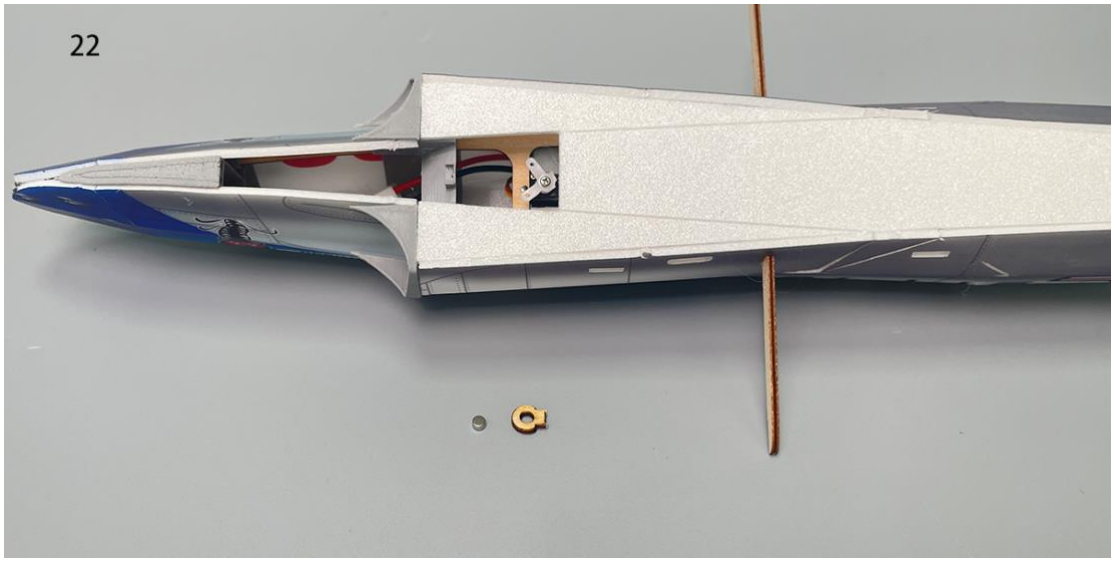
19. Install fuselage patch.



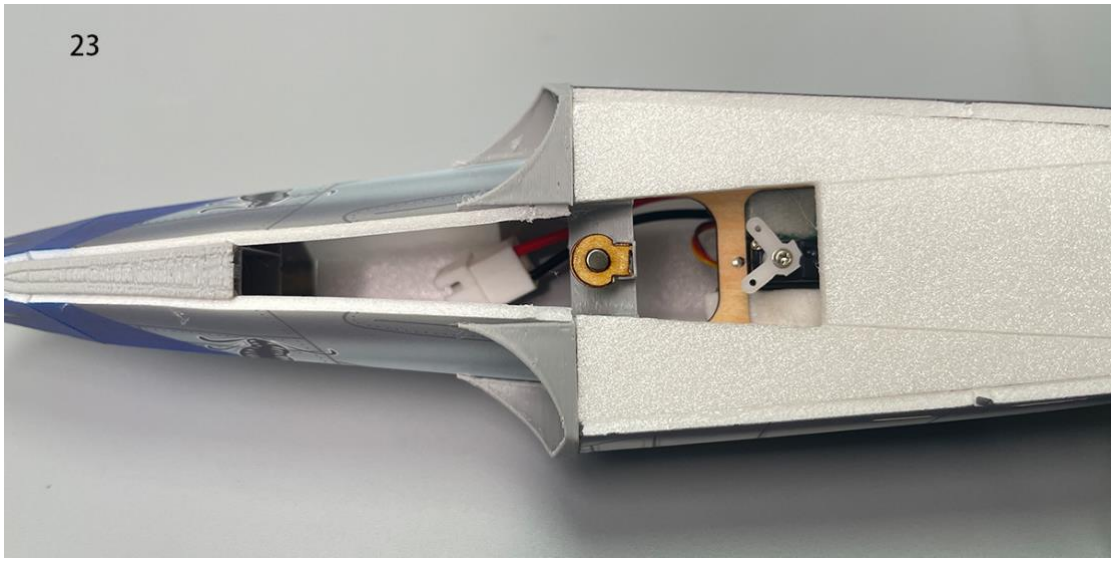
20. Combine the fuselage.

21. Install air inlet print.

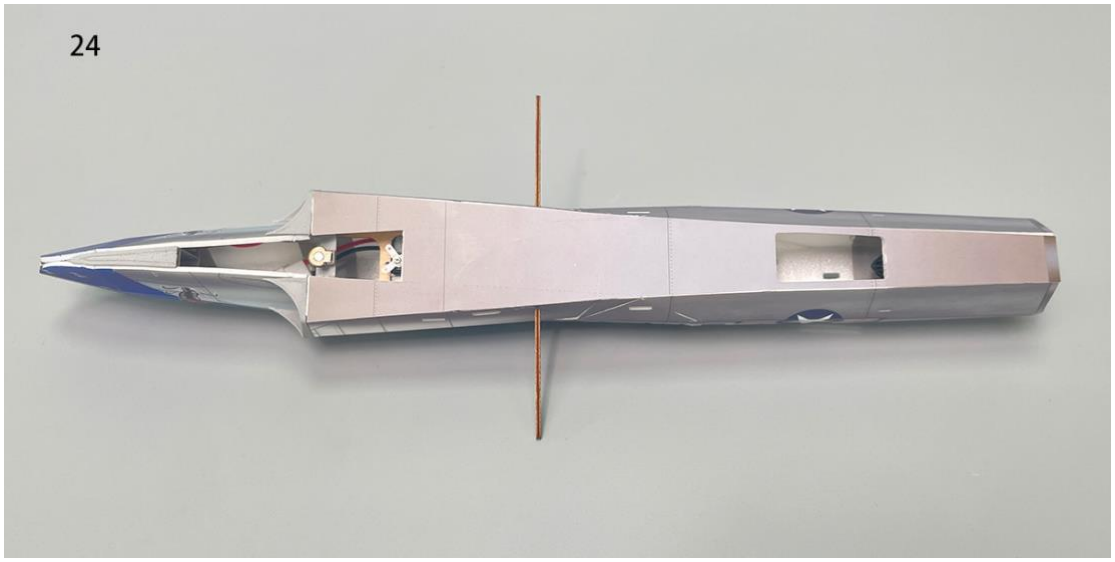
22. Magnets and its supporting structure.



23. Install the magnetic assembly according to the diagram.

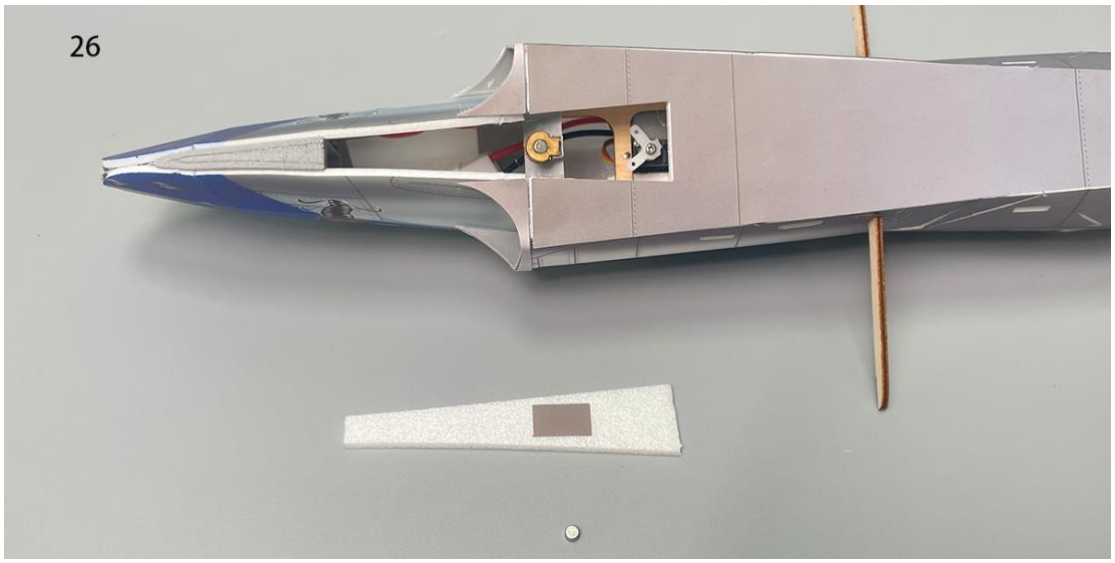


24. Apply the fuselage bottom sticker.

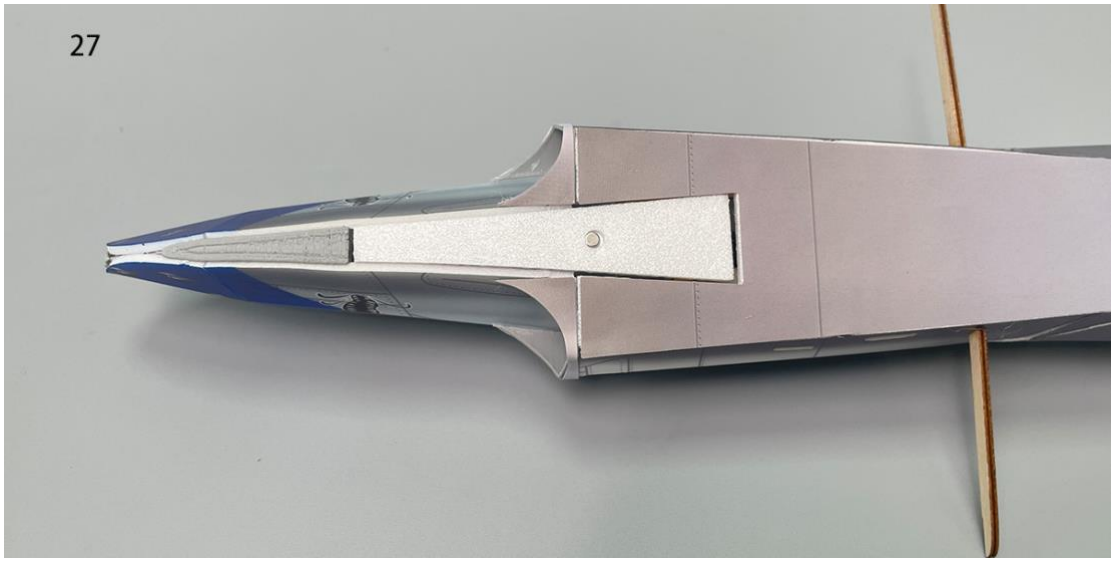


25. Apply the fuselage top sticker and the air inlet stickers.

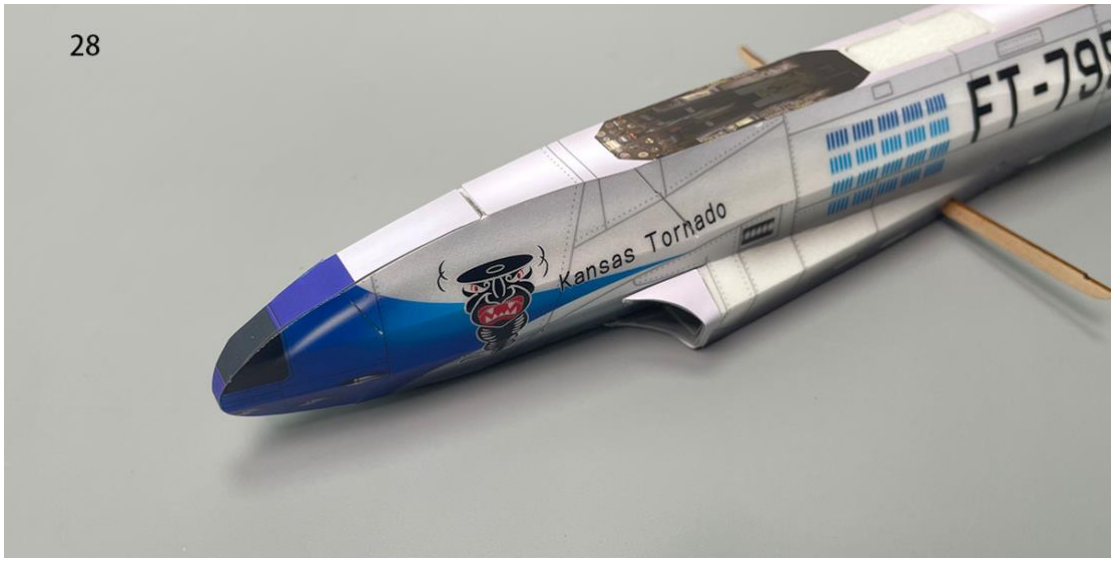
26. Battery compartment cover and magnet. Seal the circular hole on the battery compartment cover with a sticker.



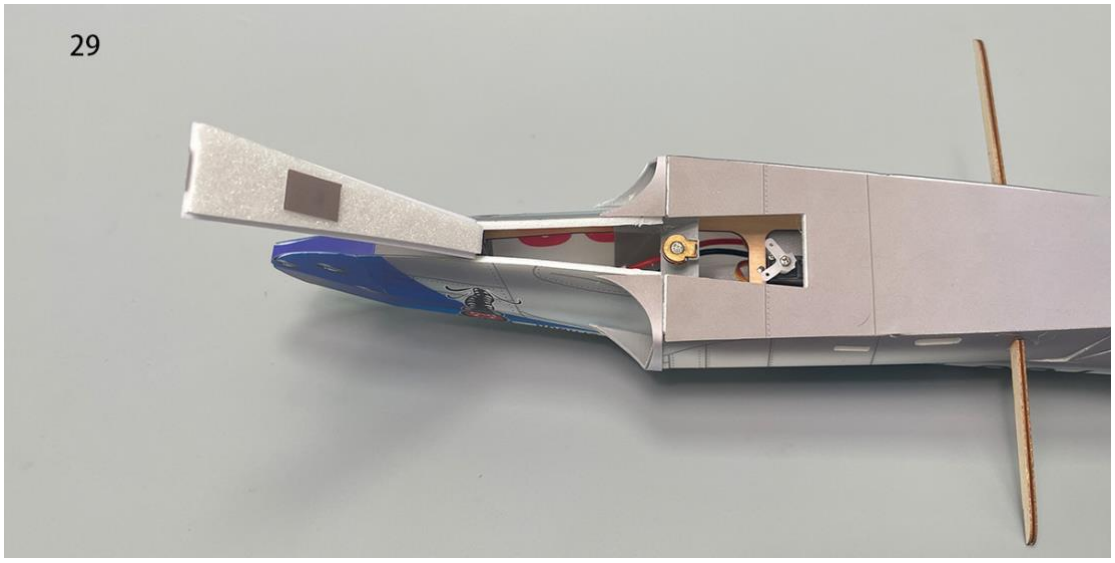
27. Install the battery compartment cover and magnet.



28. Apply the nose sticker, adhesive is needed here.

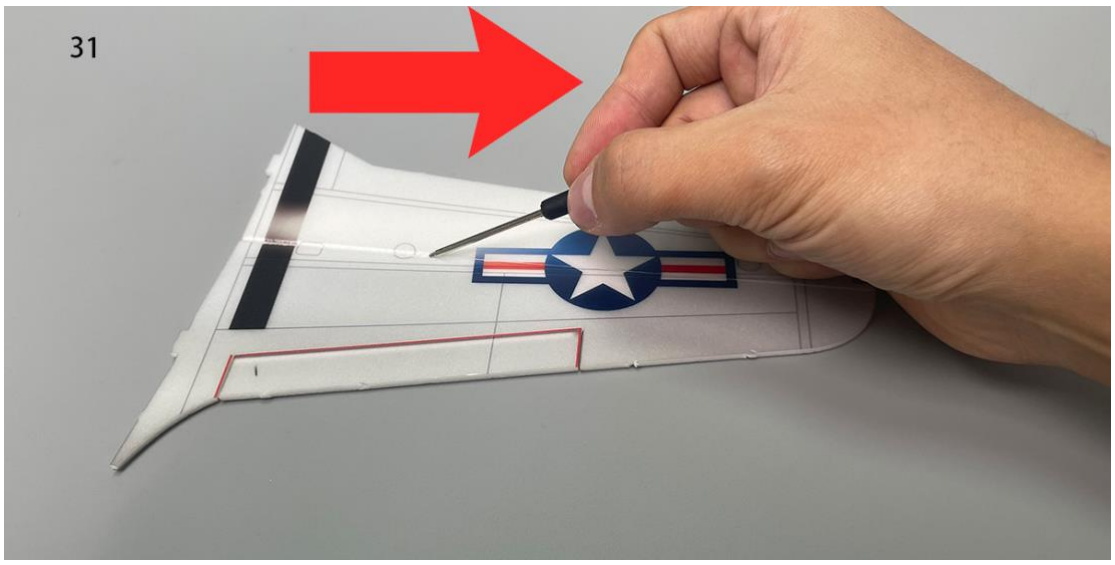


29. Use the nose sticker to connect the battery compartment cover. The sticker needs to be fixed with adhesive. The battery compartment cover can be opened forward and held in the closed position by a magnet.

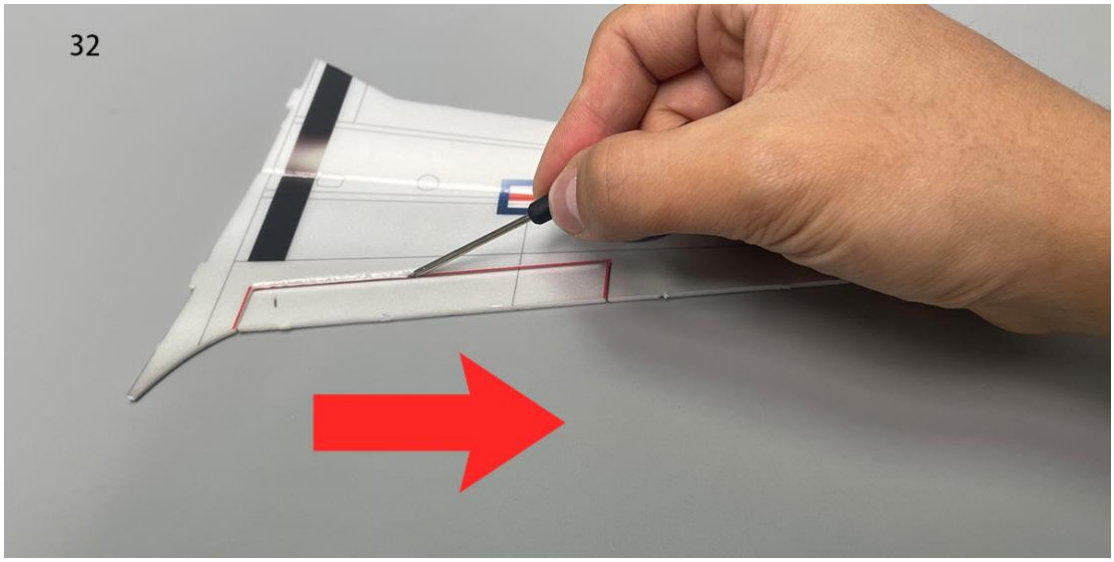


30. Install wing support components.

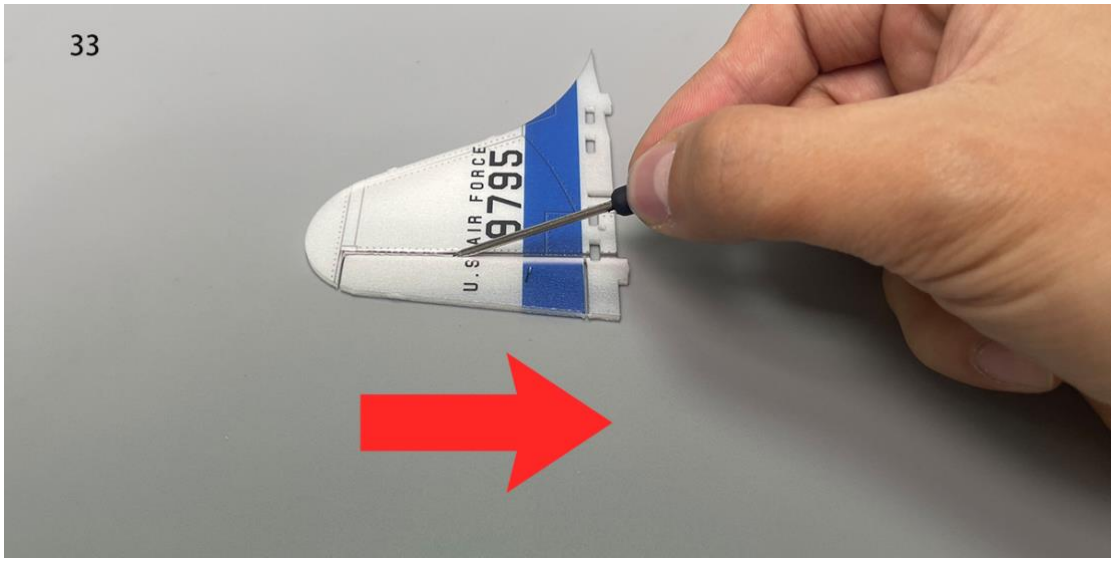
31. Use a sharp tool (a screwdriver) to score along the marked lines on the bottom side of the wings at an angle. This allows the wings to bend downward along the central longitudinal line, forming an airfoil shape.



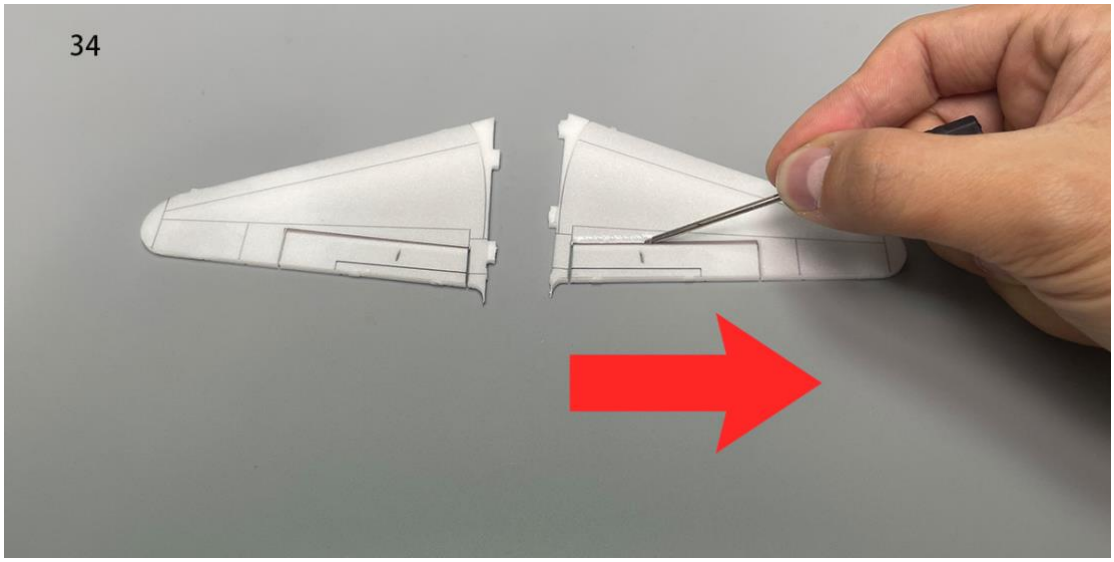
32. Use a sharp tool (a screwdriver) to score along the marked lines on the bottom side of the ailerons at an angle. This allows the ailerons to move up and down along the cut lines.



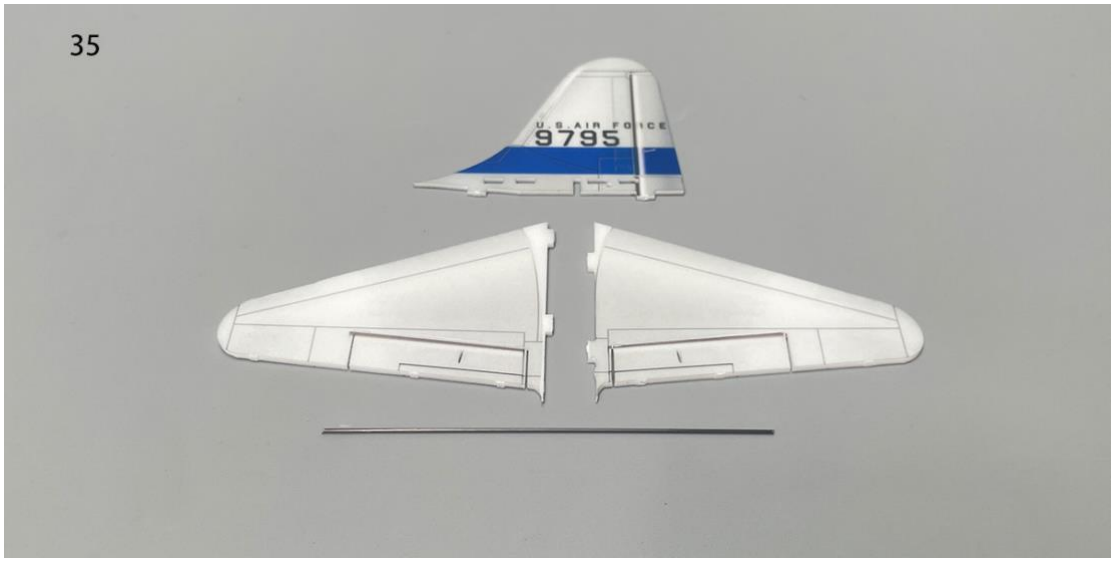
33. Use a sharp tool (a screwdriver) to score along the marked line on the right side of the vertical stabilizer at an angle. This allows the rudder to move freely along the cut line.



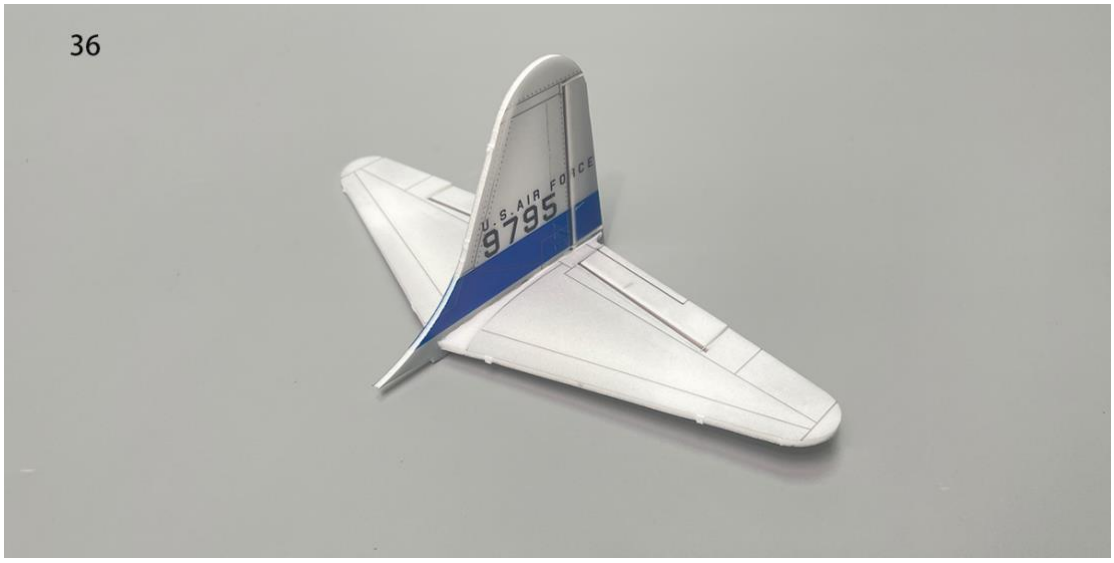
34. Use a sharp tool (a screwdriver) to score along the marked lines on the bottom surface of the horizontal stabilizer at an angle. This allows the elevators to move freely along the cut lines.



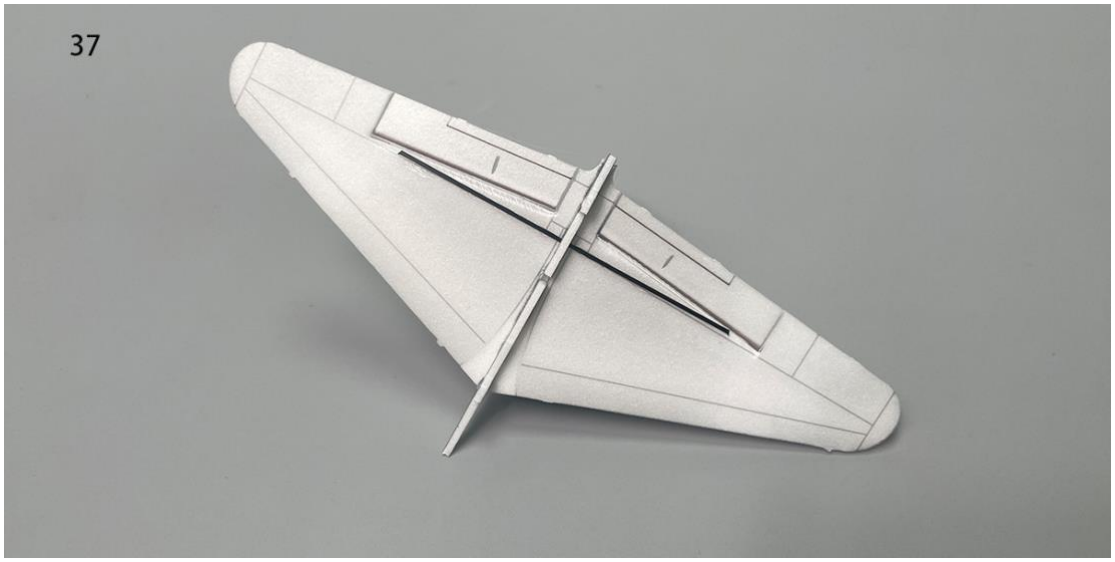
35. Horizontal tail, vertical tail, and 1×90mm carbon rod.



36. Combine the horizontal stabilizer and vertical stabilizer together.

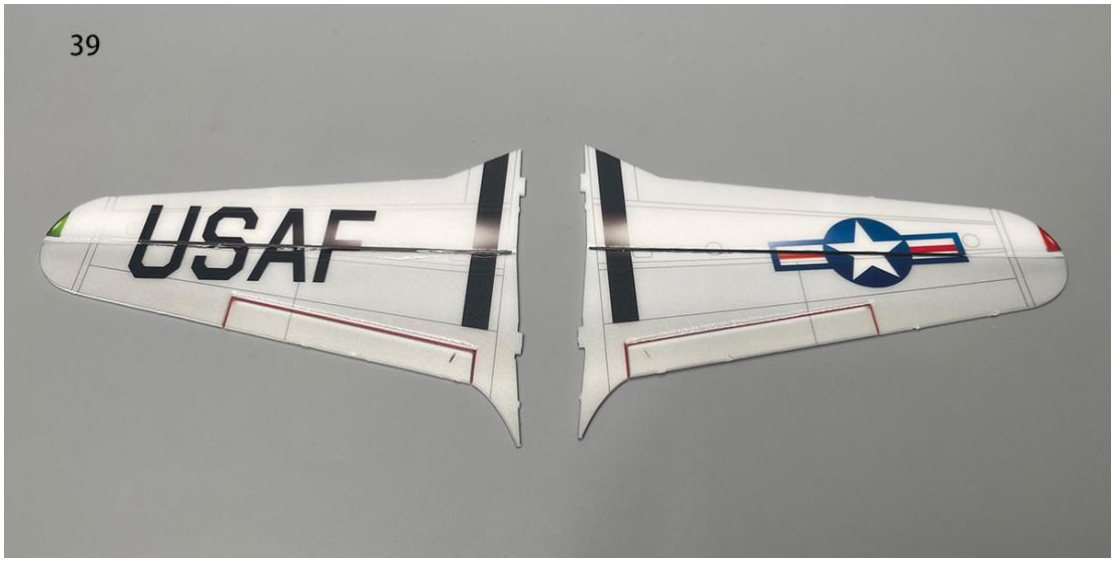


37. Paste a 1x90mm carbon fiber rod on the bottom of the horizontal stabilizer for reinforcement.



38. Install the tail.

39. Paste a 1x140mm carbon fiber rod on the bottom of the wing as a support strut.

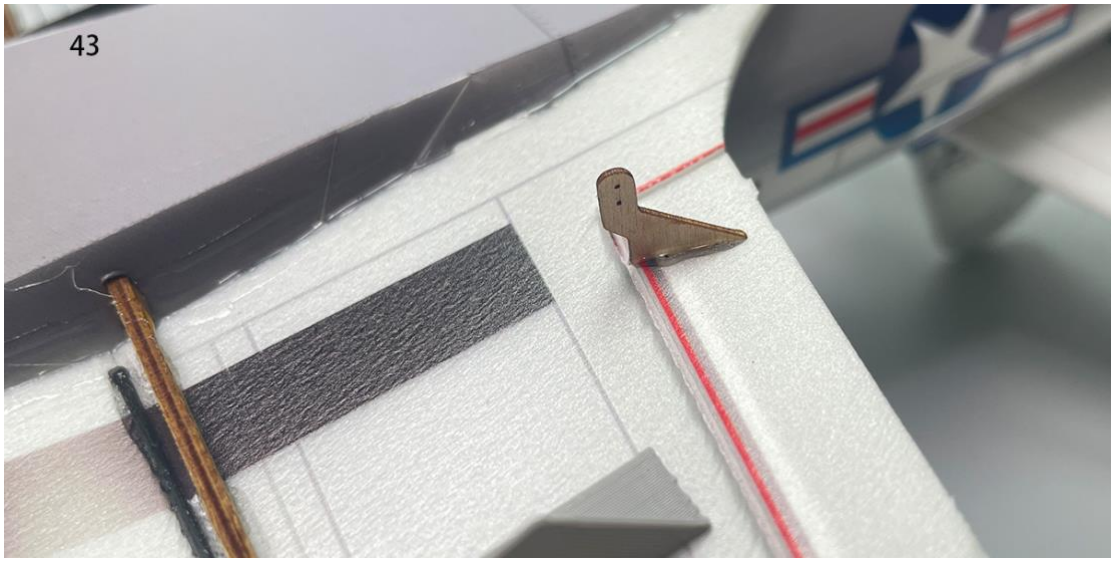


40. Install the wings. A small amount of CA glue (502 glue) can be applied at the root of the wings and where the wings meet the spar to increase strength.

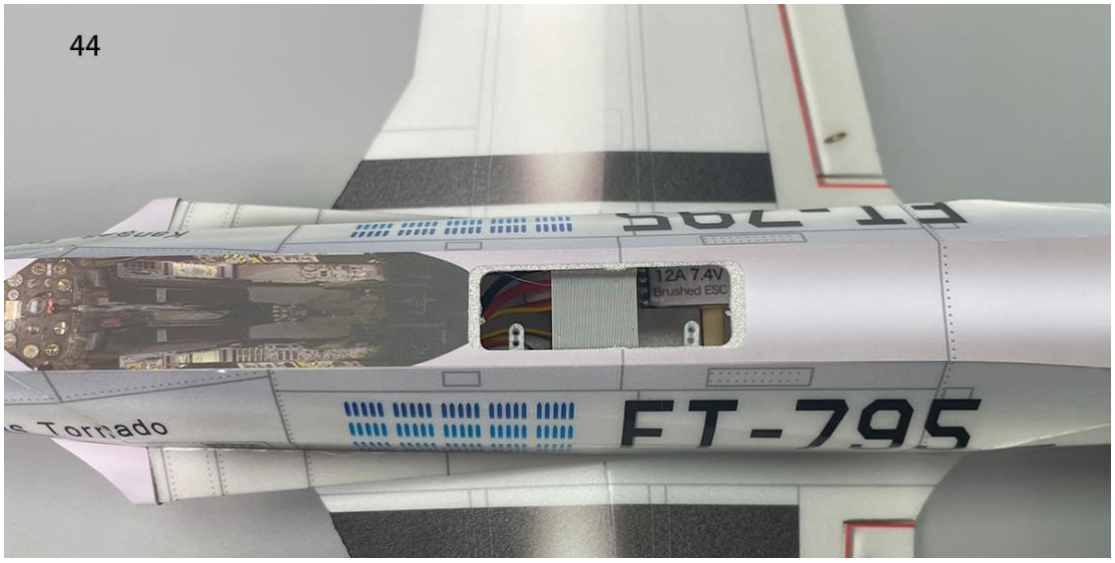
41. Install the vertical stabilizer control horn.

42. Install the horizontal stabilizer control horns.

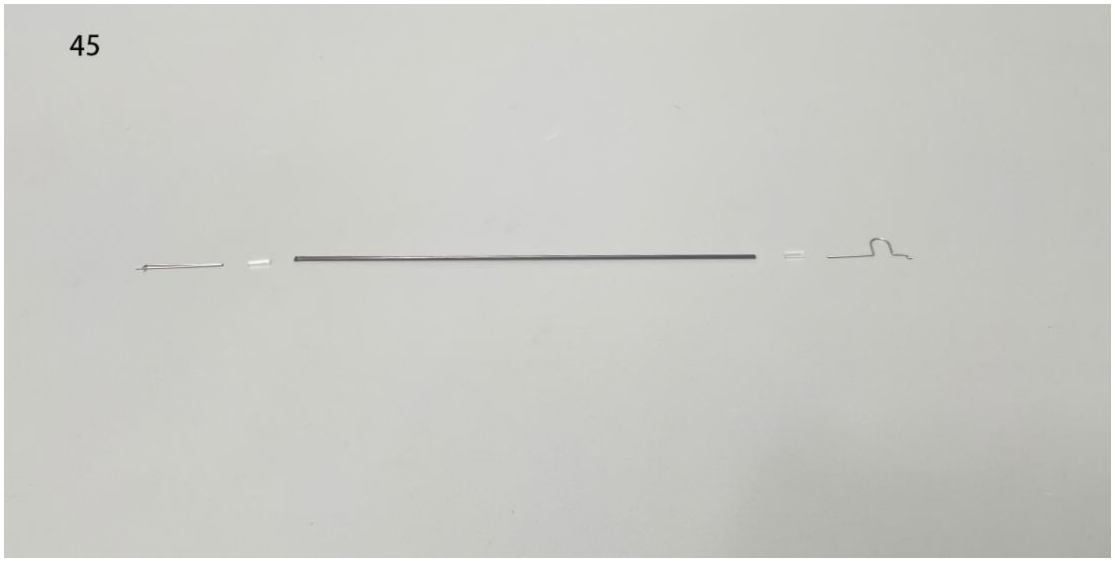
43. Install the aileron control horns.



44. Open the access hatch cover.



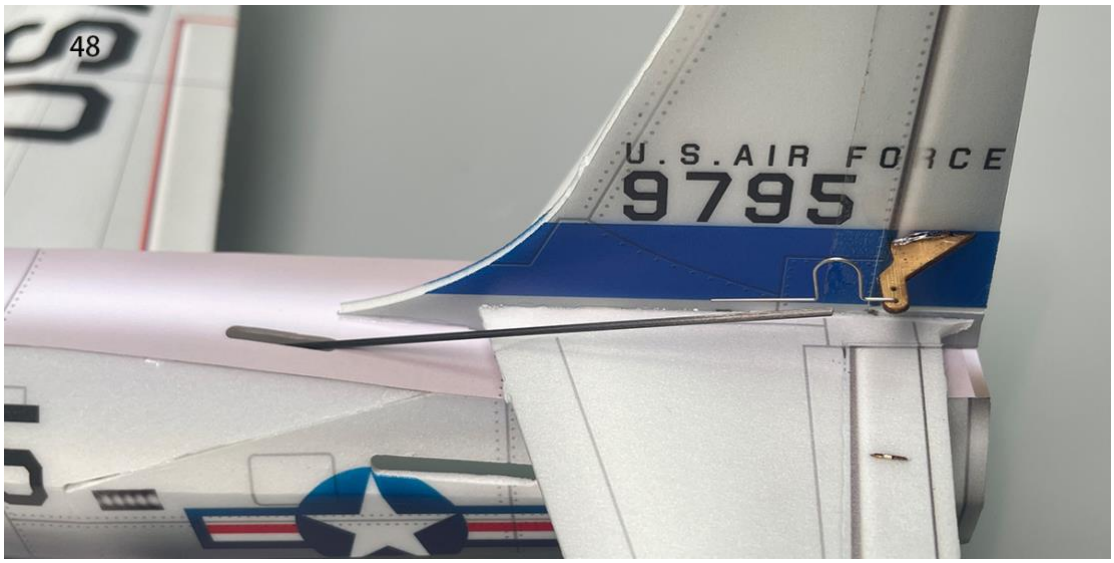
45. Take a 1x125mm carbon rod for use as the rudder pushrod. Cut two pieces of heat shrink tubing, each 5mm in length, to connect the rudder pushrod and the wire clips.



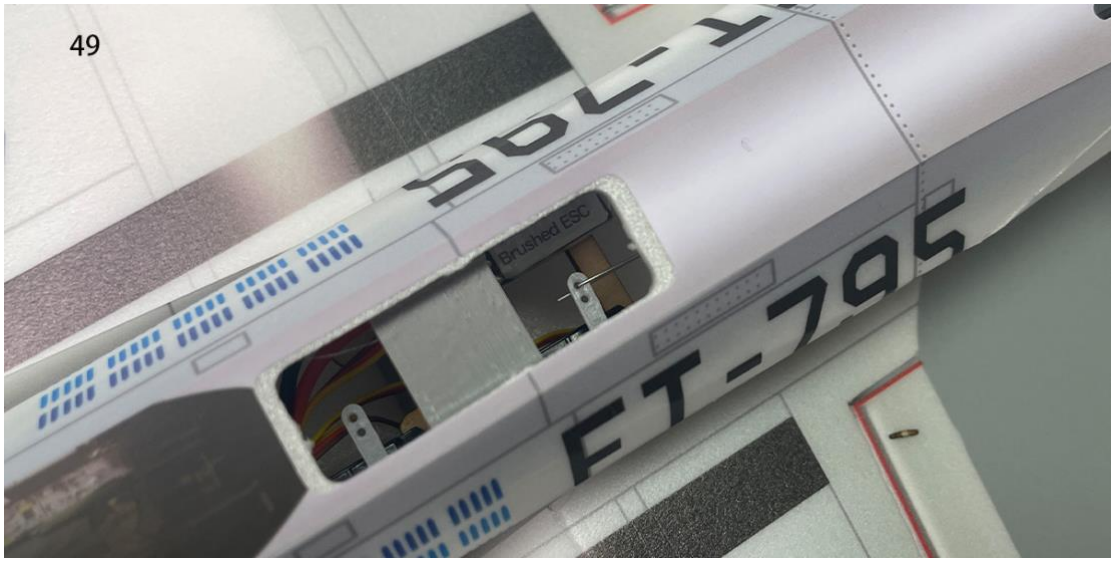
46. Use heat shrink tubing to connect the pushrod and the wire clip, then apply a drop of CA glue (502 glue) to secure them.

47. Install the linkage hook onto the rudder control horn.

48. Insert the push rod and wire clip into the fuselage and attach them onto the rudder servo arm. Use tweezers to operate here.

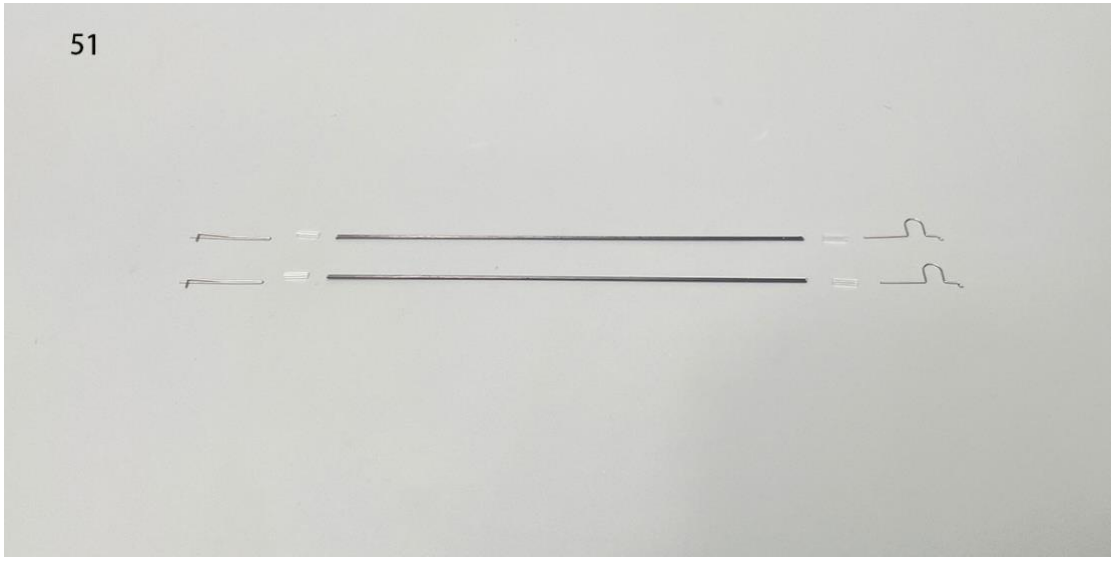


49. Detail: attach the clip onto the rudder servo arm. Use tweezers to operate here.



50. Use heat shrink tubing to connect the rudder pushrod and the linkage hook, then apply a drop of CA glue (502 glue) to secure them.

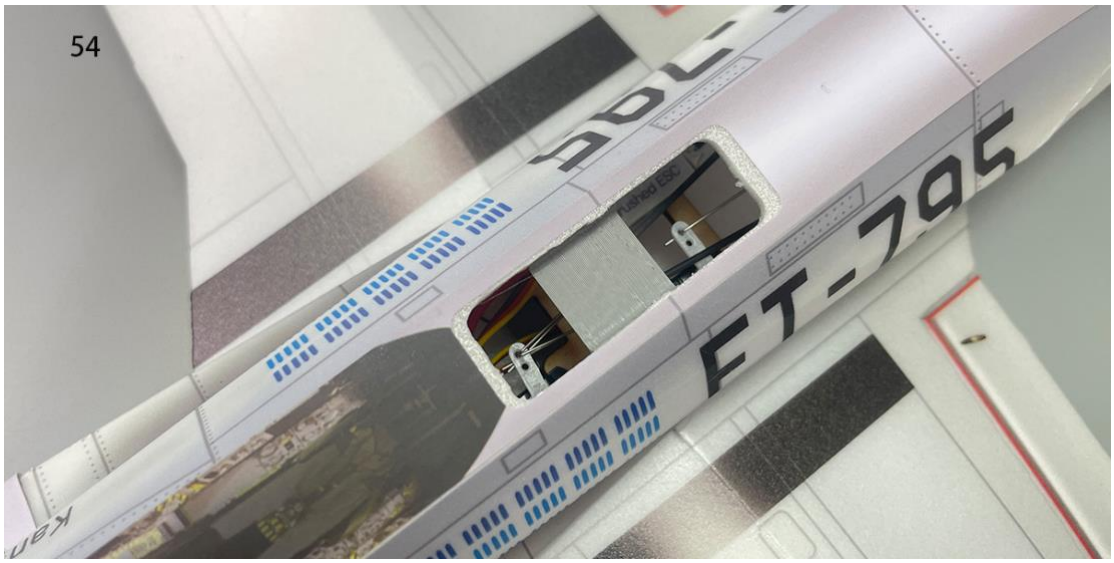
51. Take two 1x140mm carbon rods for use as elevator pushrods. Cut four pieces of heat shrink tubing, each 5mm in length, to connect the elevator pushrods and the wire clips.



52. Use heat shrink tubing to connect the pushrods and the wire clips, then apply a drop of CA glue (502 glue) to secure them.

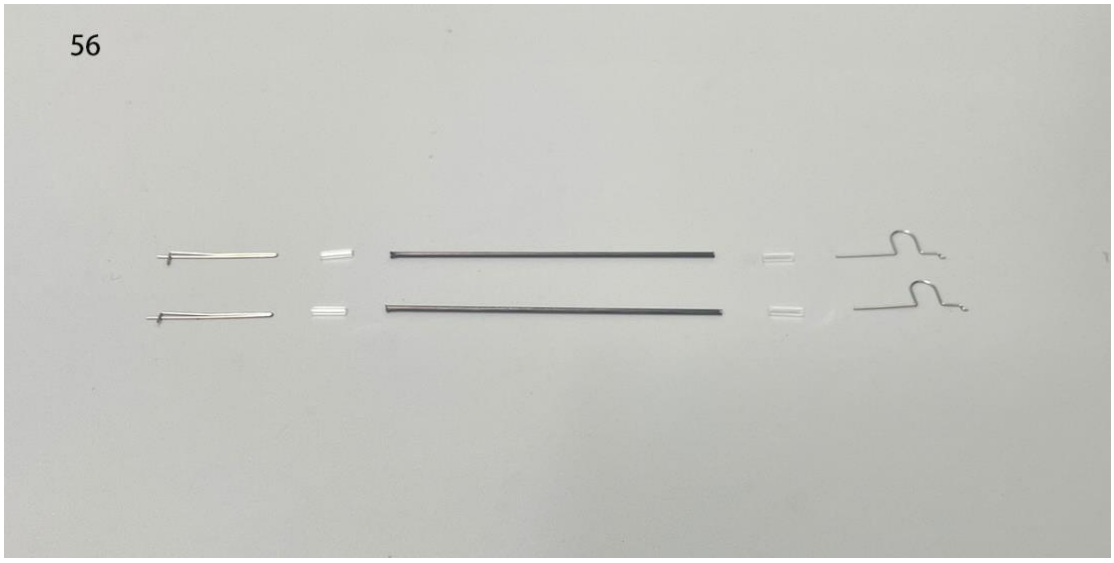
53. Install the linkage hooks onto the horizontal stabilizer control horns.

54. Insert the carbon rods and wire clips into the fuselage, and install them onto the same hole on the elevator servo arm. Use tweezers for this operation.



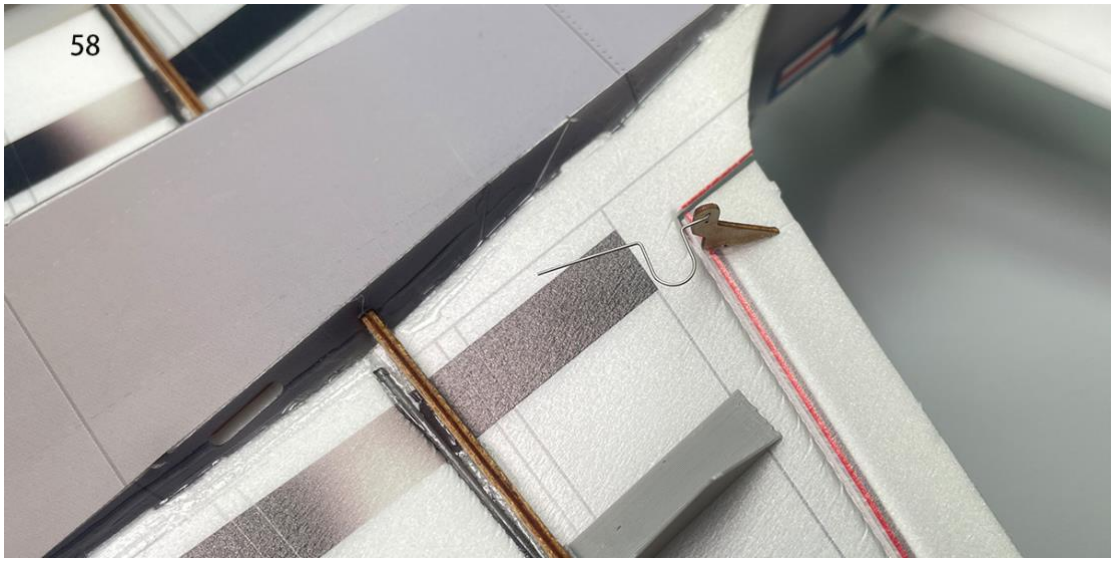
55. Use heat shrink tubing to connect the horizontal stabilizer pushrods and the linkage hooks, then apply a drop of CA glue (502 glue) to secure them.

56. Take two 1x75mm carbon rods for use as aileron pushrods. Cut four pieces of heat shrink tubing, each 5mm in length, to connect the aileron pushrods and the wire clips.

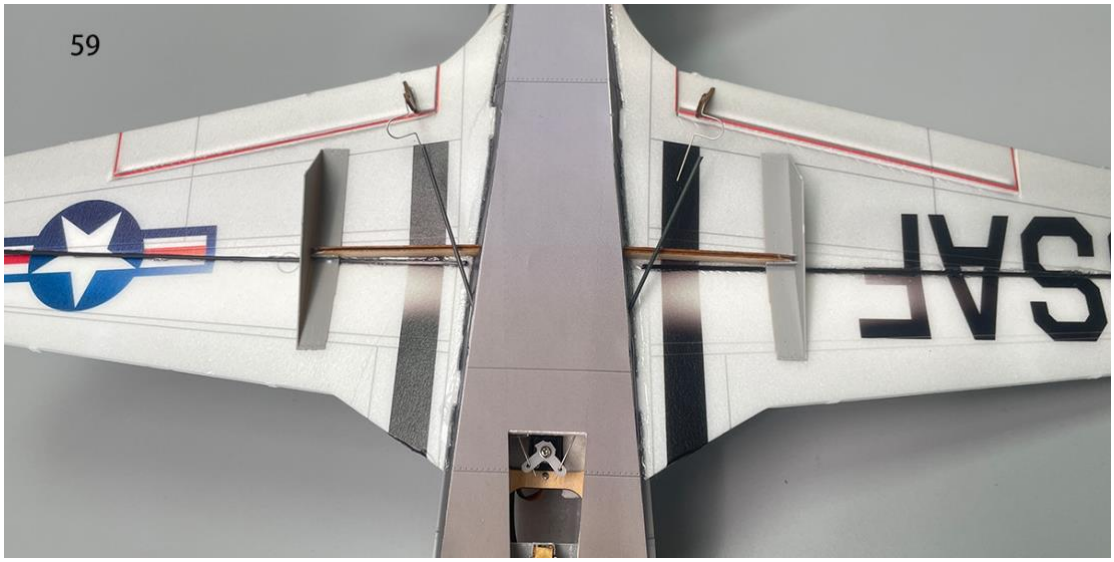


57. Use heat shrink tubing to connect the pushrods and the wire clips, then apply a drop of CA glue (502 glue) to secure them.

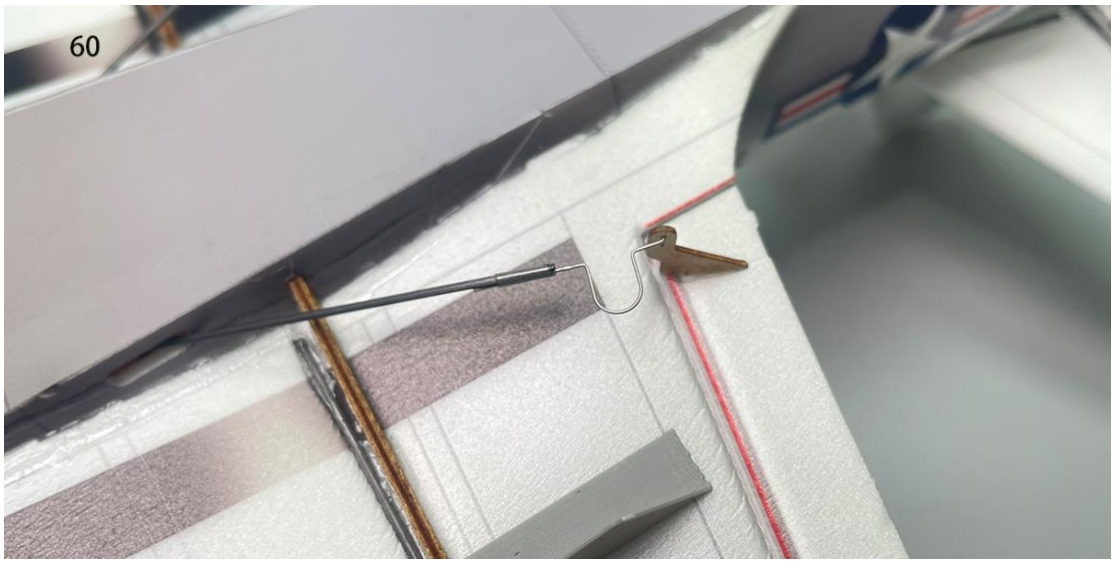
58. Install the linkage hooks onto the aileron control horns.



59. Insert the carbon rods and wire clips into the fuselage, then attach them onto the aileron servo arms.

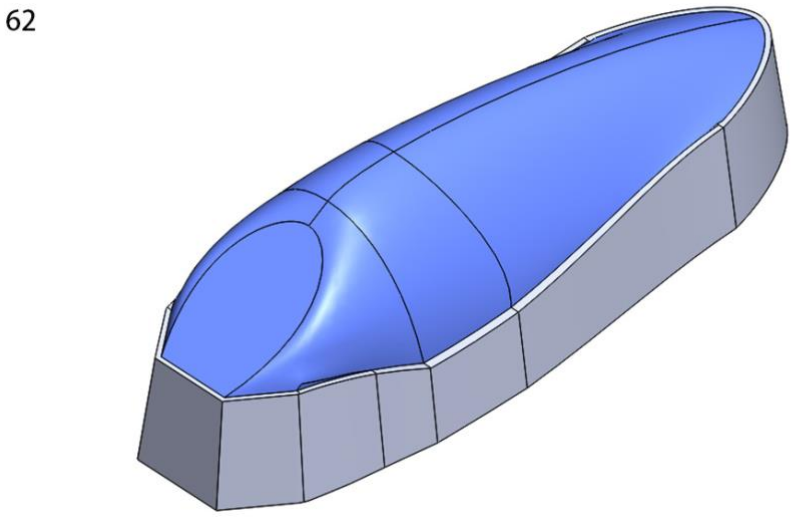


60. Use heat shrink tubing to connect the aileron pushrods and the linkage hook, then apply a drop of CA glue (502 glue) to secure them.



61. Apply the access hatch cover panel sticker.

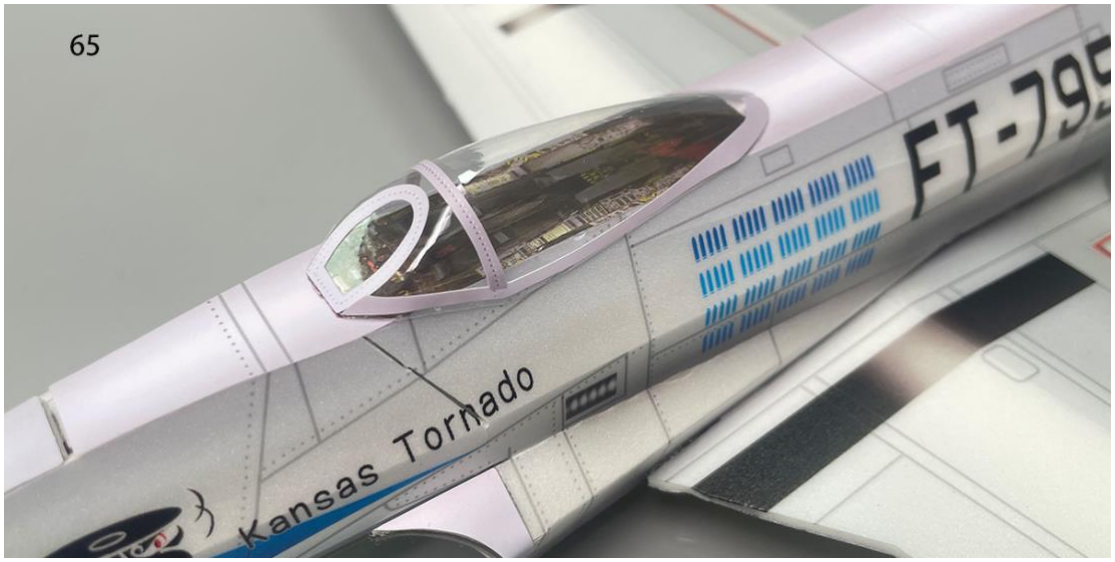
62. Follow the diagram to trim away the excess material from the cockpit canopy vacuum-formed part. It's advisable to start with conservative cutting, place the canopy on the fuselage for alignment, and then make precise adjustments.



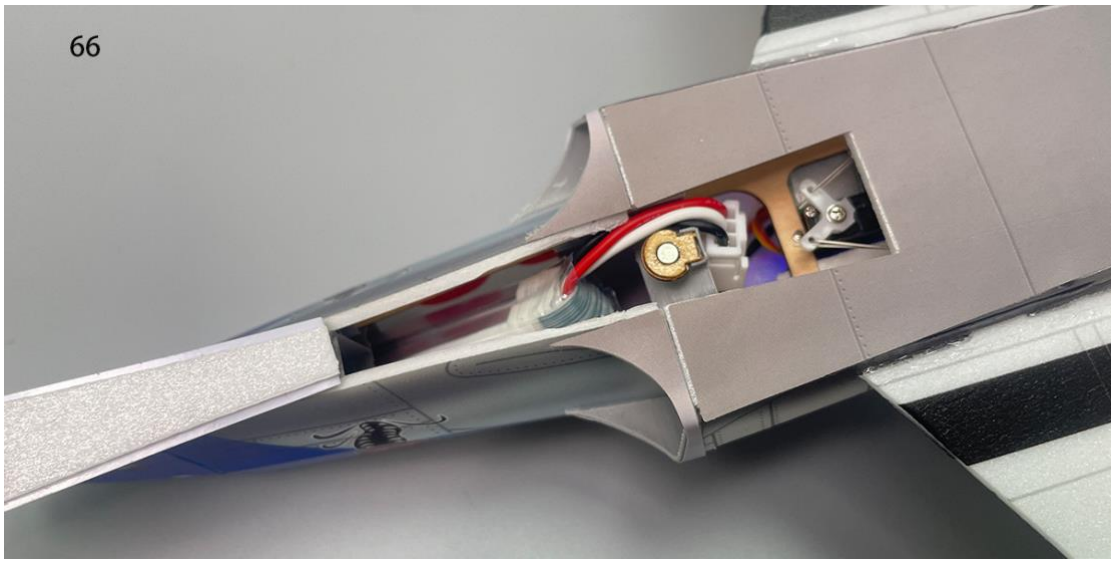
63.The trimmed cockpit canopy.

64. Use glue to secure the cockpit canopy in place on the corresponding position of the fuselage.

65. Apply the cockpit stickers.



66. Place the battery inside the nose.



Assembly complete!

Maiden flight

·The center of gravity of the aircraft is located 5mm in front of the wing scored line.

· When using the original electronic equipment of this model, three counterweight iron plate needs to be installed on the nose.

·The active range of ailerons, elevator and rudder are 4mm on both sides.

·Choose grass land for maiden flight.

MinimumRC™

THE ULTIMATE POSSIBILITIES OF RC AVIATION