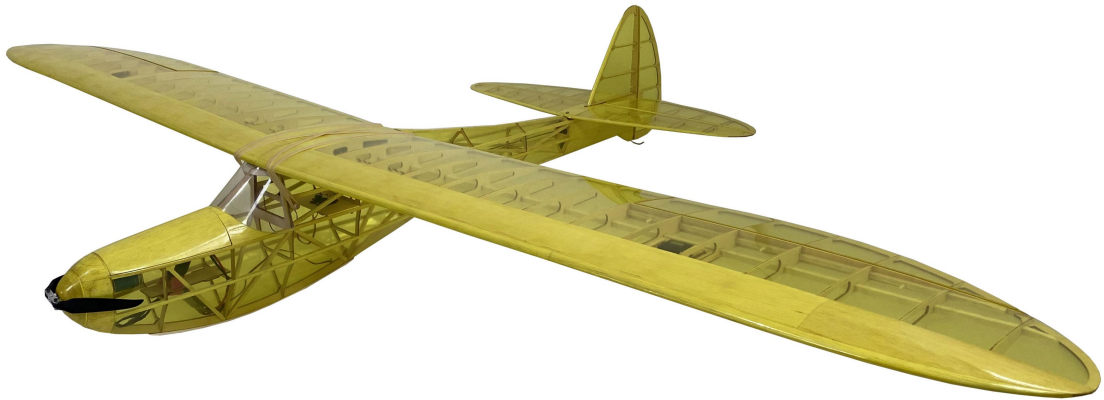


# SB98 GLIDER 2500MM

## BUILDING INSTRUCTION



SB98 is a glider model airplane for relaxed flying. Low flying weight and wing load makes an awesome calm wind performer. The calm and silent flying characteristics attracts both intermediate and advanced pilots. SB98 can be built with or without electric power set. SB98 is controlled by rudder, elevator and ailerons.

### SPECIFICATION

Wingspan = 2500mm

Length = 1525mm

Flying weight = 1900g

Wing Area = 137.66dm<sup>2</sup>

Wing loading = 13.8g/dm<sup>2</sup>

Suggested Equipment:

Servo  $\geq$  17g Prop.: 12 inches

Motor: 2814 1000kv ESC: 40A

Batteries: 3S 2200-3000mah

### PRODUCT LIST

**1\* Un-assembled SB98 KIT:**

**Wood sheet pack\*1    1:1 Plan\*1    Batten sets    Operation instruction\*1**

**PVC windshield \*1    Pushrods with tube \*2    Carbon tube\*1**

**Fitting bag\*1    Rubber band\*4**

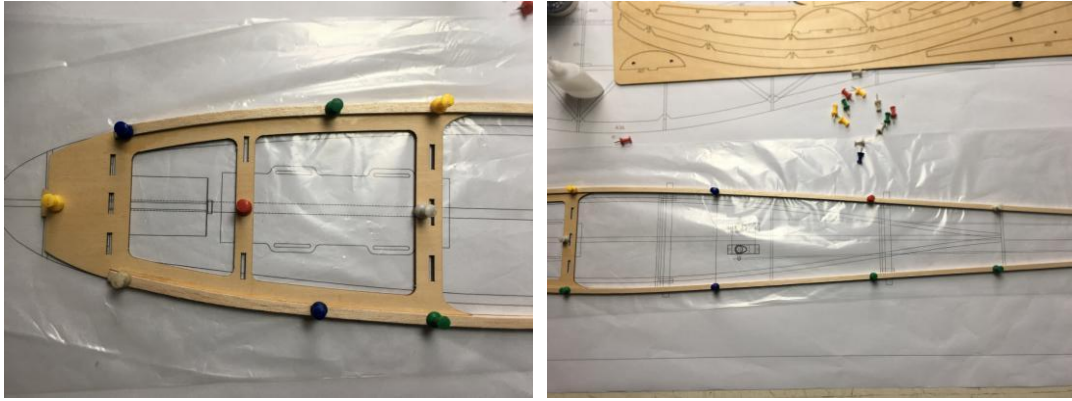


## **BUILDING INSTRUCTION**

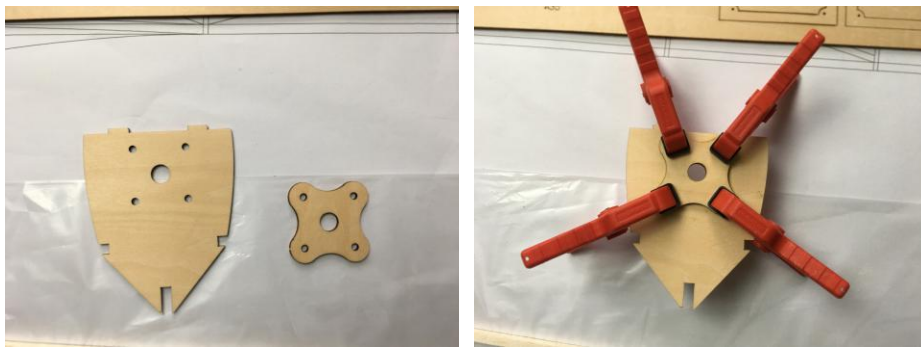
**1. 6X6MM balsa sticks need to be spliced and extended to 1400MM**



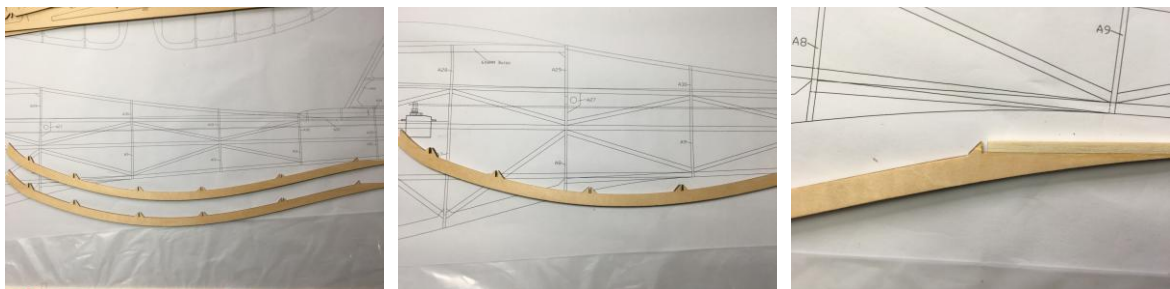
**2. The extended sticks need to be bonded to the fuselage plywood A14**



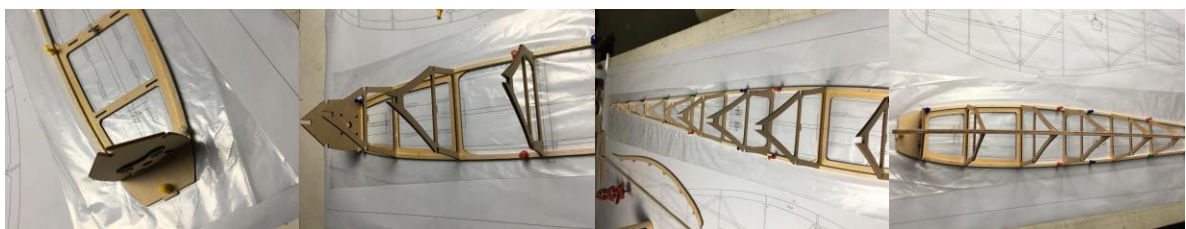
**3. Paste the motor mount and the stiffener together**



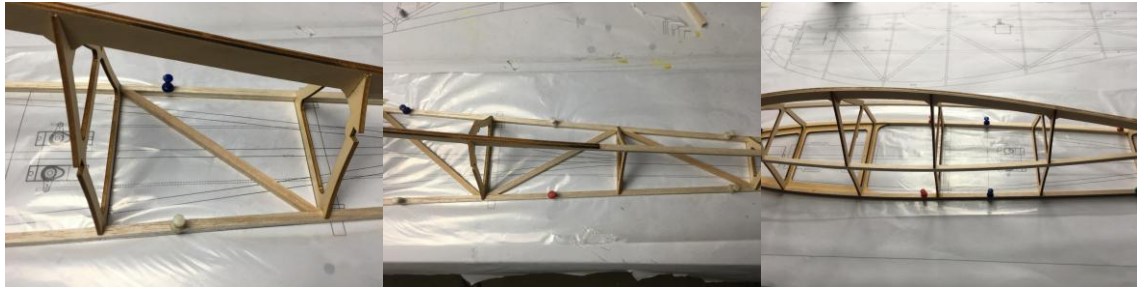
**4. Paste two pcs of A36 plywood into one, then paste the 6X6mm balsa sticks on it**



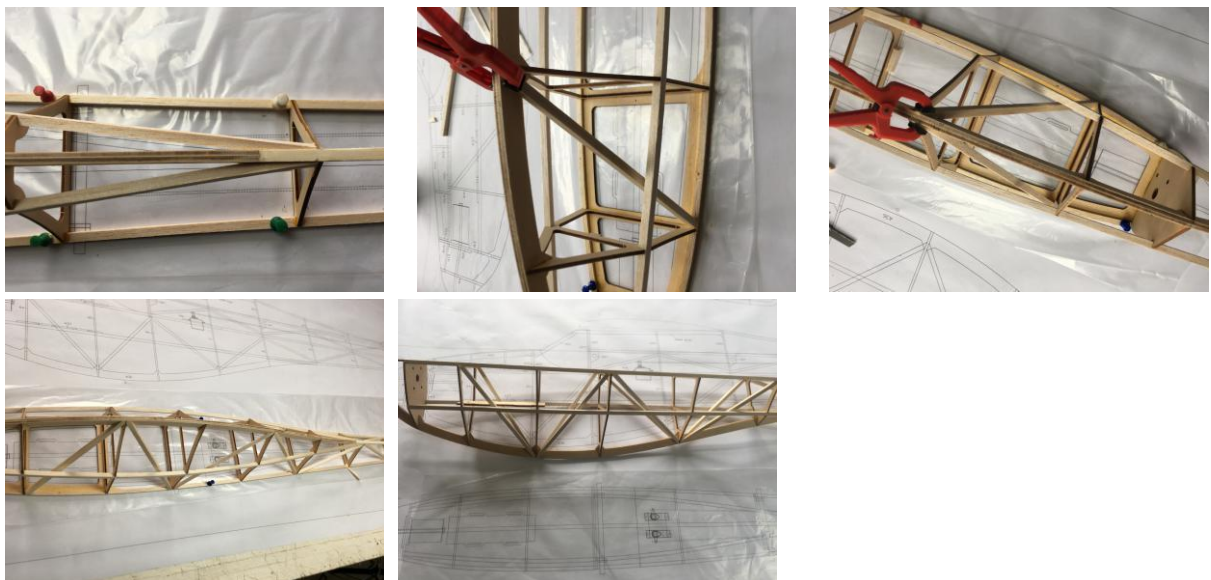
**5. Motor mount and compartment frame shall be pasted according to the 1:1 drawing position**



**6. Enhance fuselage structure with 6x6mm balsa sticks**



**7. Paste the fuselage balsa sticks and the diagonal brace sticks**



**8. Adhesion of A1 plywood to the fuselage**

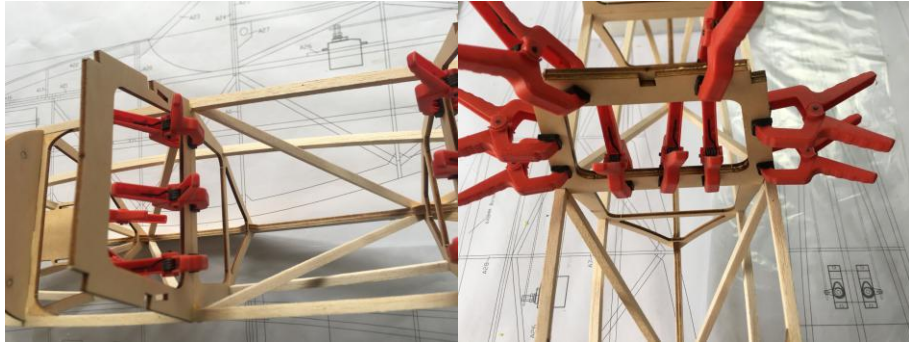


**9. Install the battery board**



**10. Install upper bulkheads and the stiffeners**

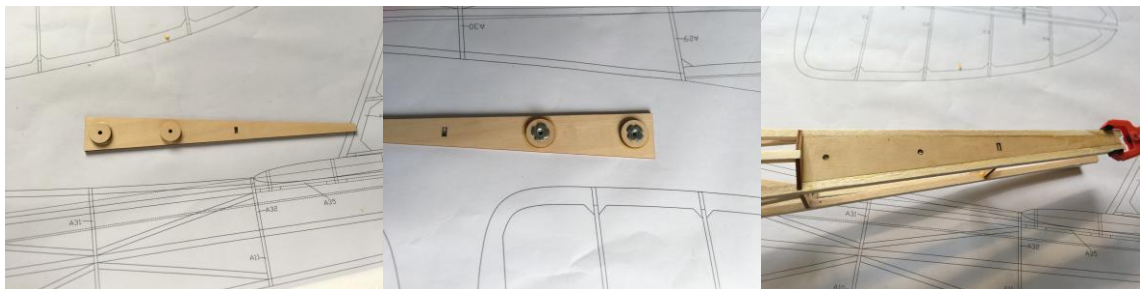




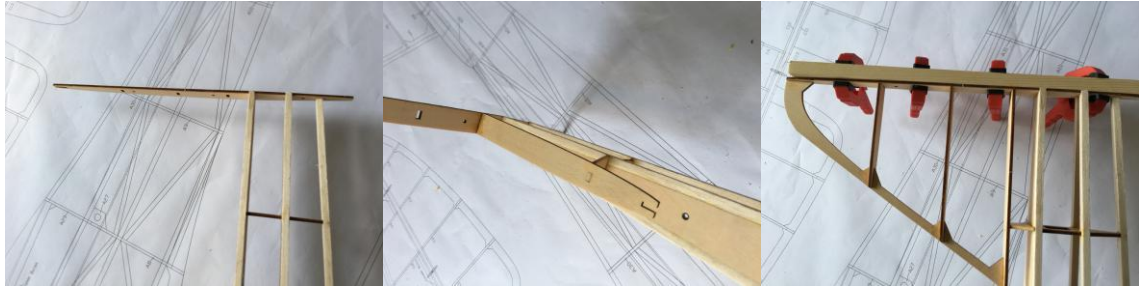
**11. Paste balsa sticks and diagonal brace sticks on the upper fuselage**



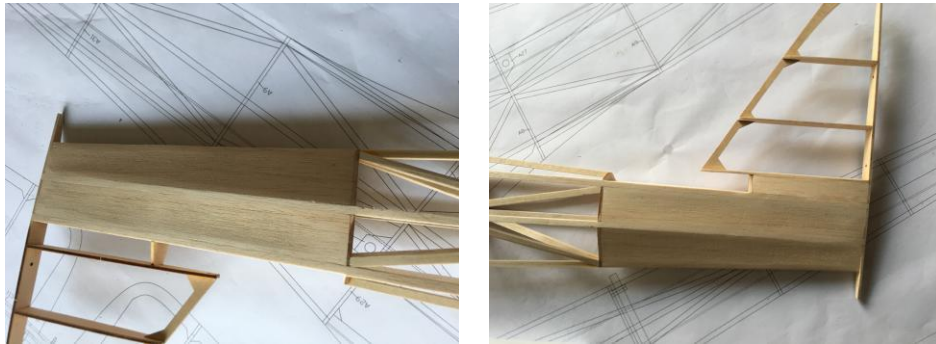
**12. A35 plywood are pasted with round stiffeners and claw nuts and then combine the finished parts and the frame**



**13. Assemble the vertical tail, which can be fixed with hardwood strips to maintain perpendicularity**



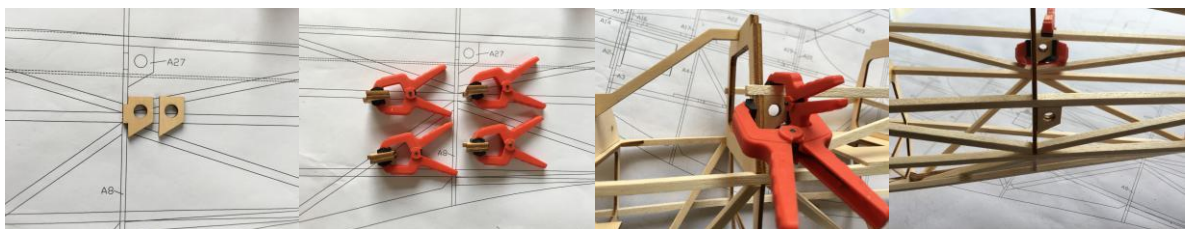
**14. Paste the tail with 2mm balsa sheet, the tail must be kept vertical**



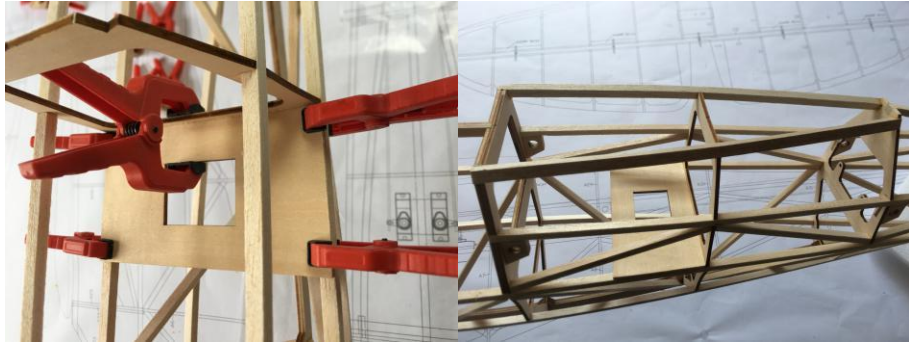
**15. The front edge of the vertical tail fin is pasted with 8mm sticks and then sanding them, and the rear part of the fuselage should be pasted with 8mm balsa blocks**



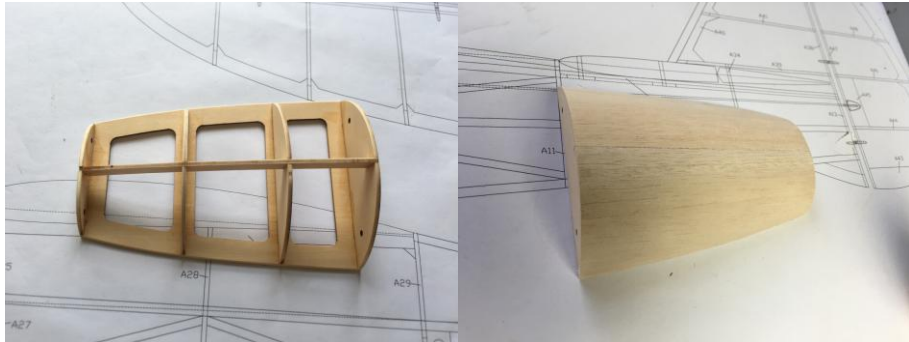
**16. Combine and paste the A27 onto the fuselage**



**17. Paste the servo mount to the fuselage**



**18. Make the battery hatch cover**

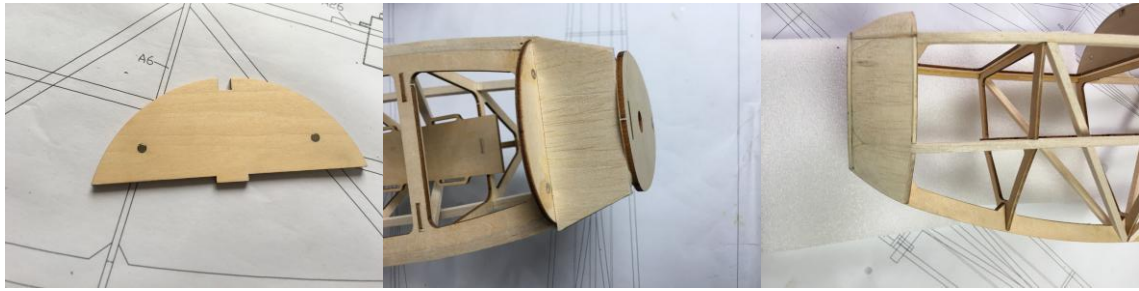


**19. Paste the mask wood sheet**



**20. Paste A15 plywood onto the fuselage, and fill the nose with 5MM balsa sheet and polish it**

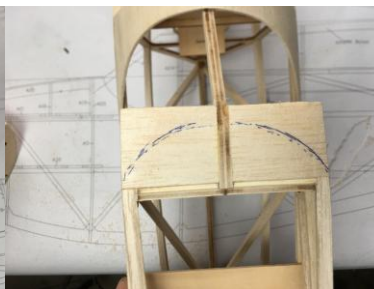




**21. Install the motor to the fuselage, then paste 3 layers of 8MM balsa sheets on the nose and polish it smooth**



**22. Wing support is made of 8mm balsa sheets**



**23. The back of the wing support shall be filled with balsa sticks**

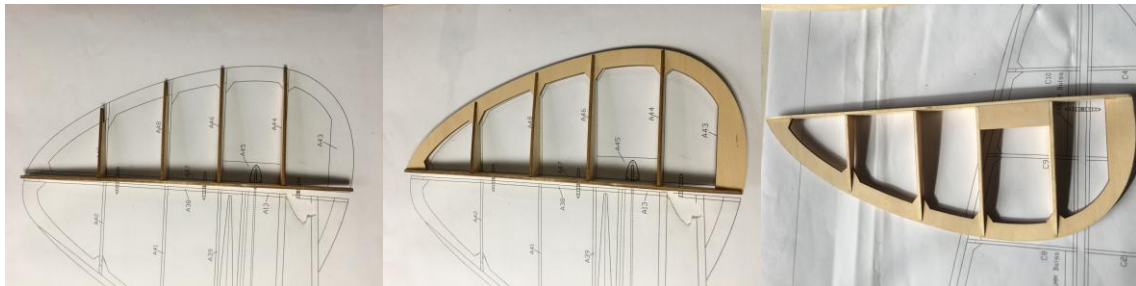




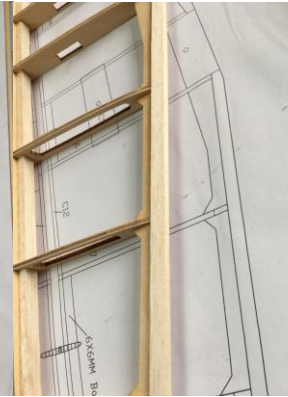
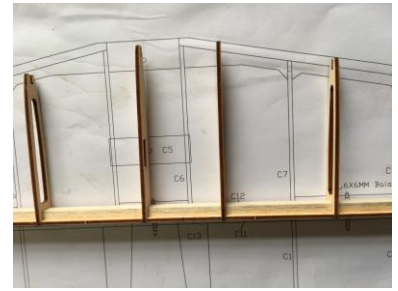
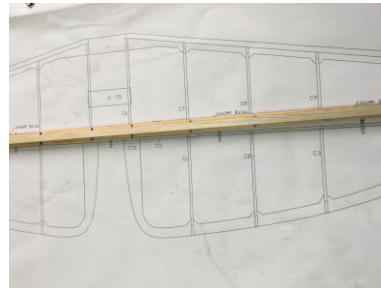
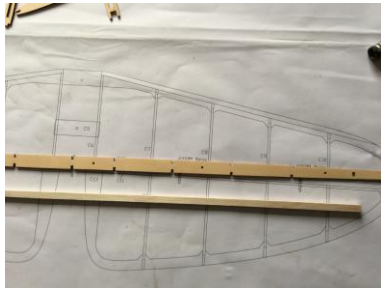
#### 24. Trepanning and install PVC conduit



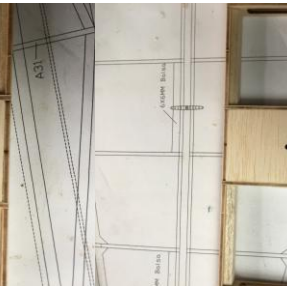
#### 25. Make the rudder according to the drawing



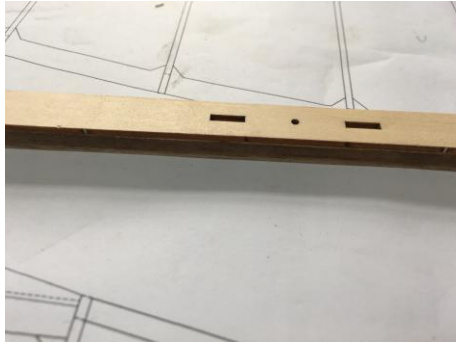
#### 26. Paste 6X8MM balsa sticks and C12 plywood, assemble the wing ribs, paste the leading edge plywood, and paste 6X8MM balsa sticks on the leading edge of the tail fin and polish them



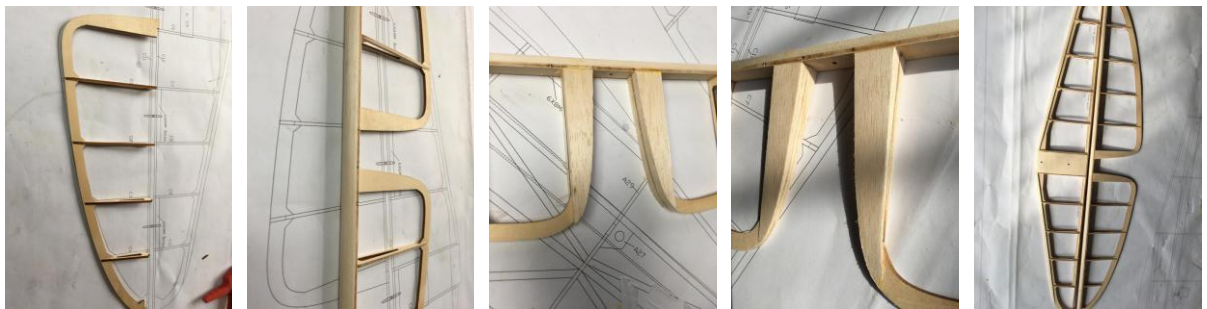
**27. Paste two pieces of C5 to middle rib and use 2mm blasa sheet to paste the upper and lower covers**



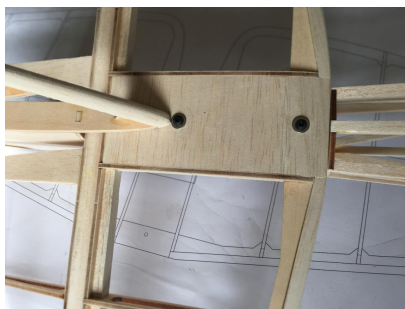
**28. Compositely paste C11 and 8mm balsa stick, and the balsa sticks need to be spliced and extended**



**29. Combine the pasted elevator and C11, and polish the front edge of the balsa wood, fill and polish the middle servo mounting position with balsa sheets**



**30. The horizontal tail is connected to the fuselage with a 3MM screw. It can be disassembled for easy transportation.**



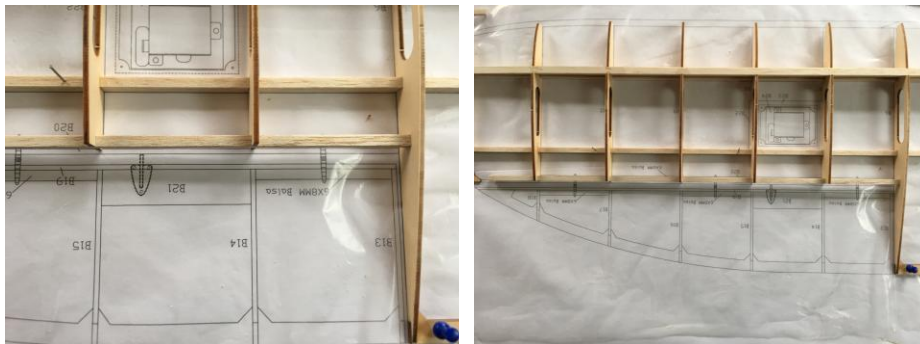
**31. The wing ribs shall be assembled according to the position of the drawing. The balsa sticks of the main wing girder shall be 6X8MM, and need to be spliced and extended**



**32. Install wing tip plywood**



**33. The back edge is pasted with 6X8MM balsa sticks and B20 plywood**



**34. Install the PVC conduits**





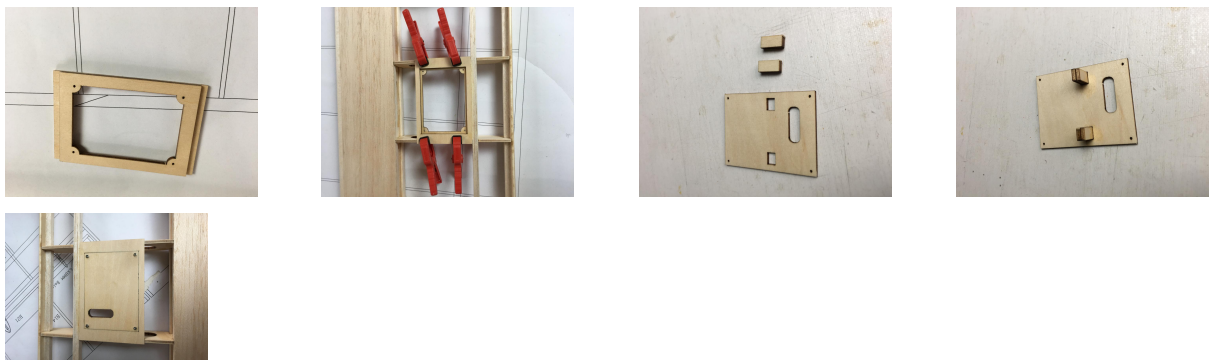
**35. Trim the wing tip balsa sticks and splice 2MM balsa sheets**



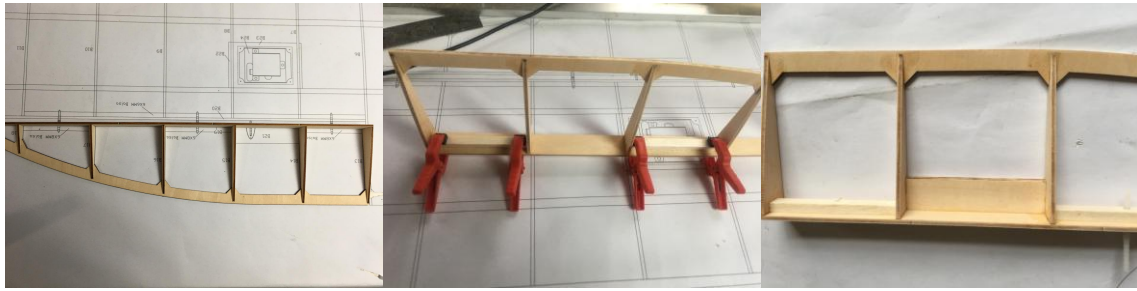
**36. Paste upper and lower covers, fill the leading edge with 8MM balsa strips and polish them**



**37. Assemble the servo mount and paste it to the wing rib**



**38. Make ailerons**



**39. Paste the upper and lower wing covers and positioning bolts**



**Control Throws**

Aileron = +/- 20mm

Rudder = +/- 40mm

Elevator = + 25mm / - 15mm

**Center of Gravity C.G.**

C.G. is marked in building plan

115mm back from the leading edge of the Wing Center Section

**Incidence:**

Wing ---0.5 Degree

Tail ---0 Degree

Engine Thrust Line --- Down/Right 0 Degree