Hardware for this build stage

4x	Round magnet	5x3mm
4x	Roundwood dowel	15x5mm

Use press on sheet 23 to make the windows while window frames are still in sheet

HC-3
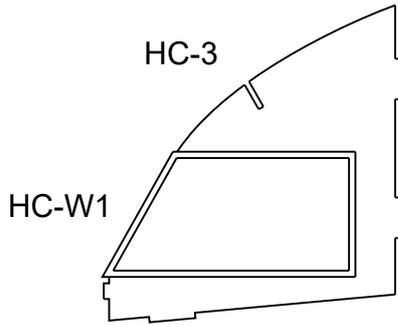
Make on left and one right!

HC-W1

Lasercut lines are not 90 degrees.
Side were laser enters the wood needs to be at the bottom.
This is the side with the engraved part labels.

Window frame is flush with outside

HC-P4   HC-P5

HC-2
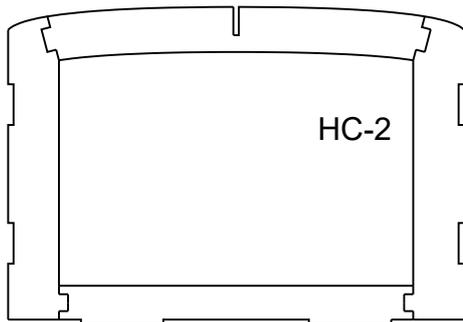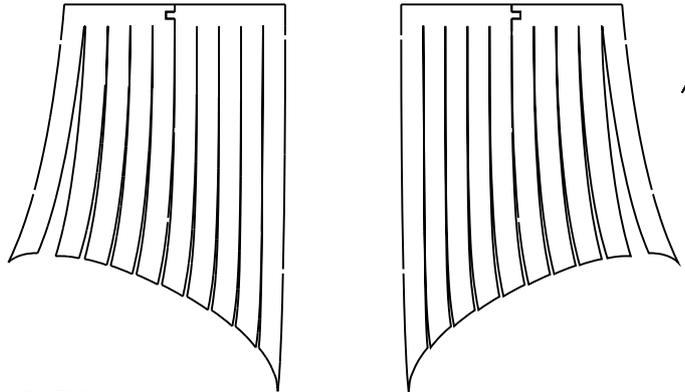
HC-P2   HC-P1

HC-1
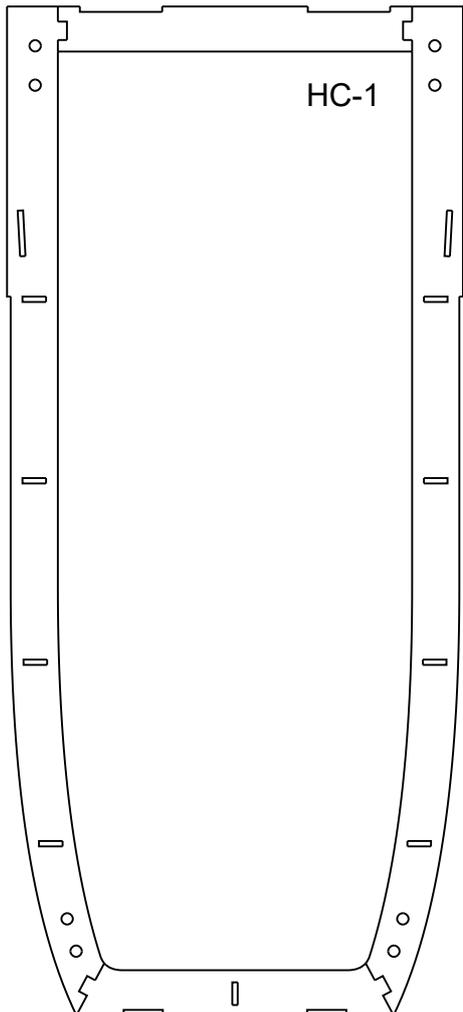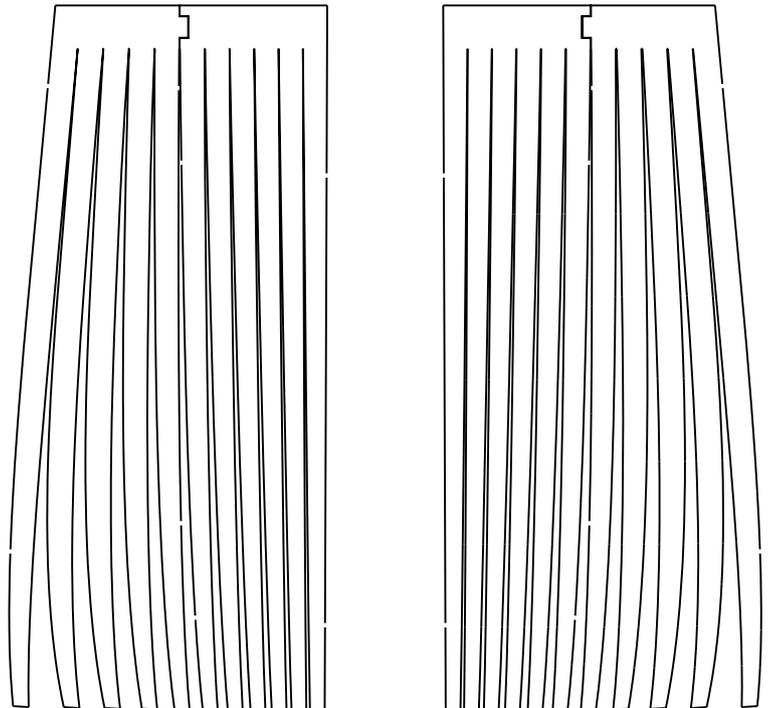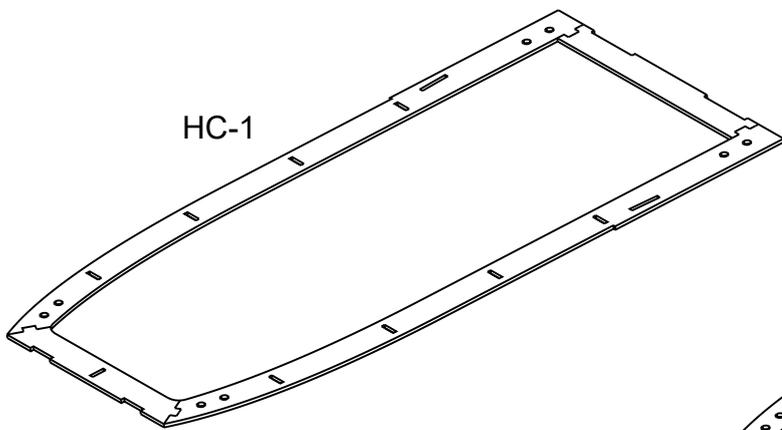
HC-1

HC-4
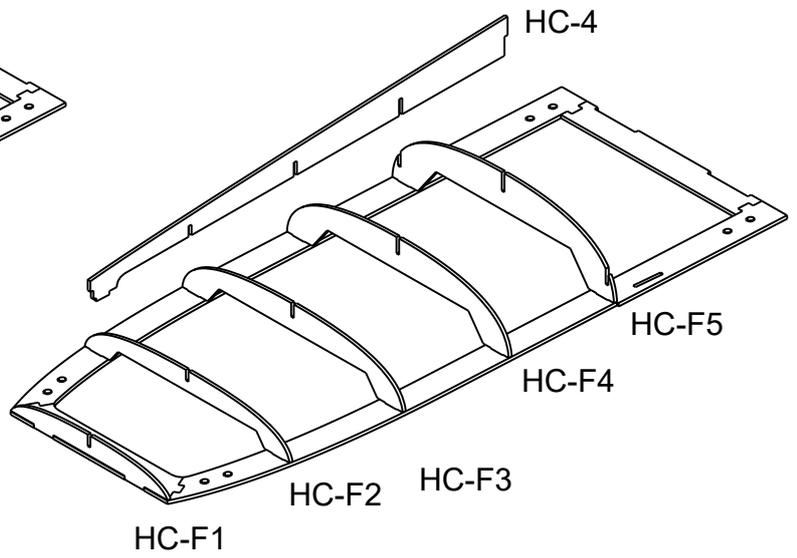
HC-F5

HC-F4

HC-F3

HC-F2

HC-F1

Apply pre-cut planking
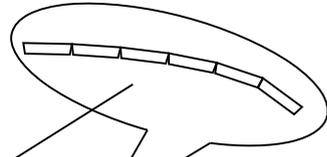
Topside of sheet need to be on the inside !

HC-5

HC-2

HC-F6

HC-3
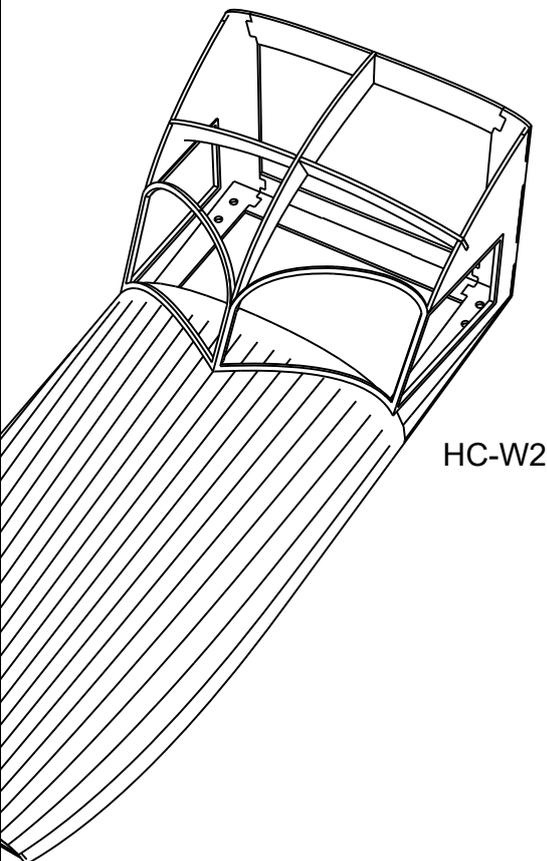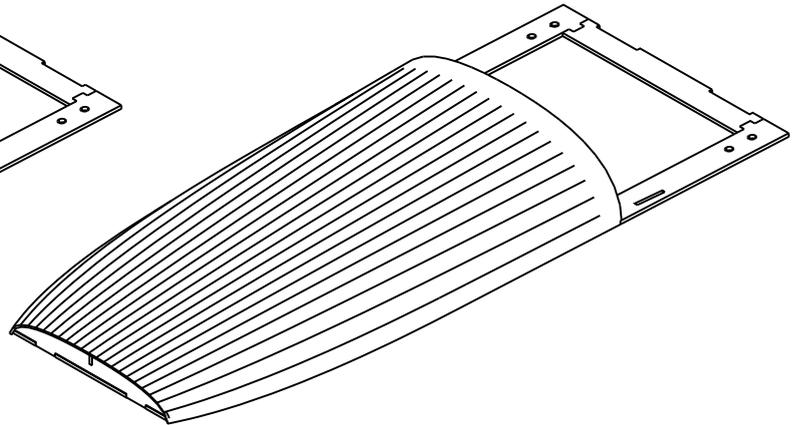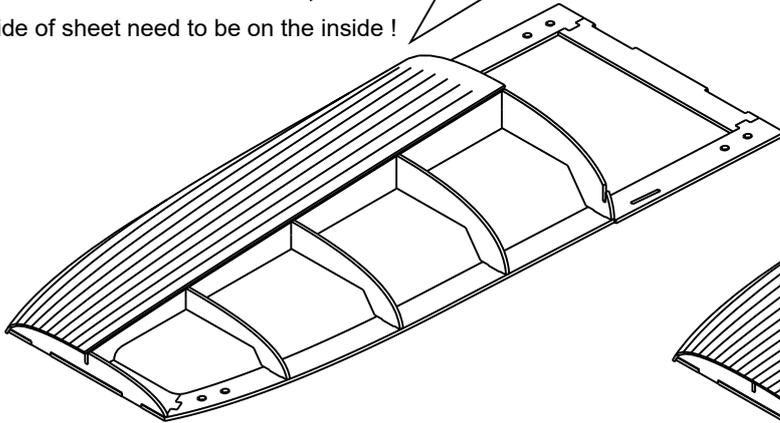
HC-W2
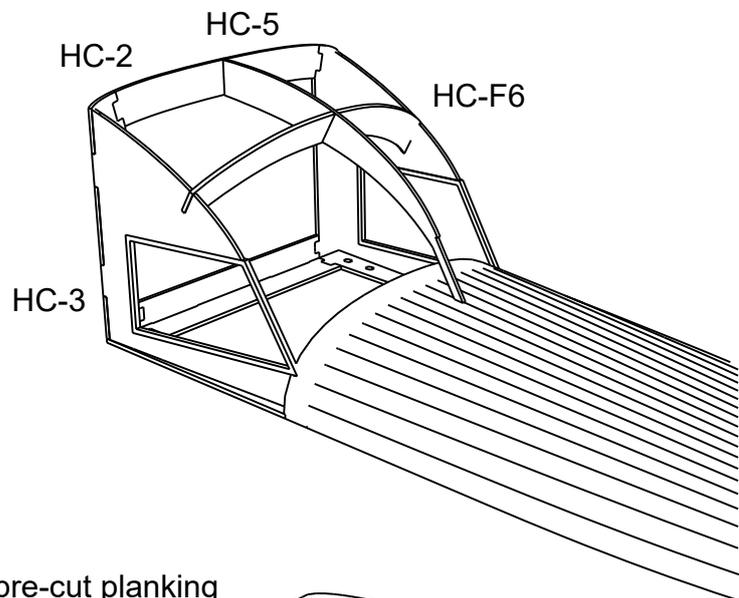
Apply pre-cut planking
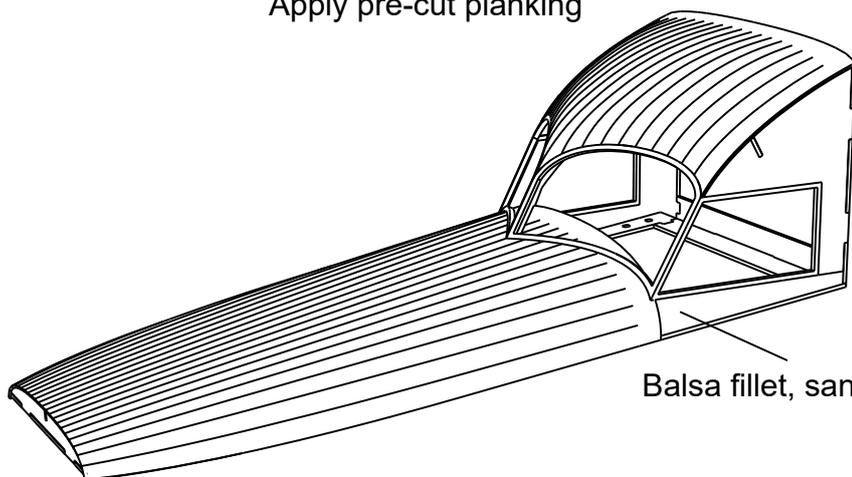
Balsa fillet, sand to shape

Roundwood dowel

Round magnets 5x3mm
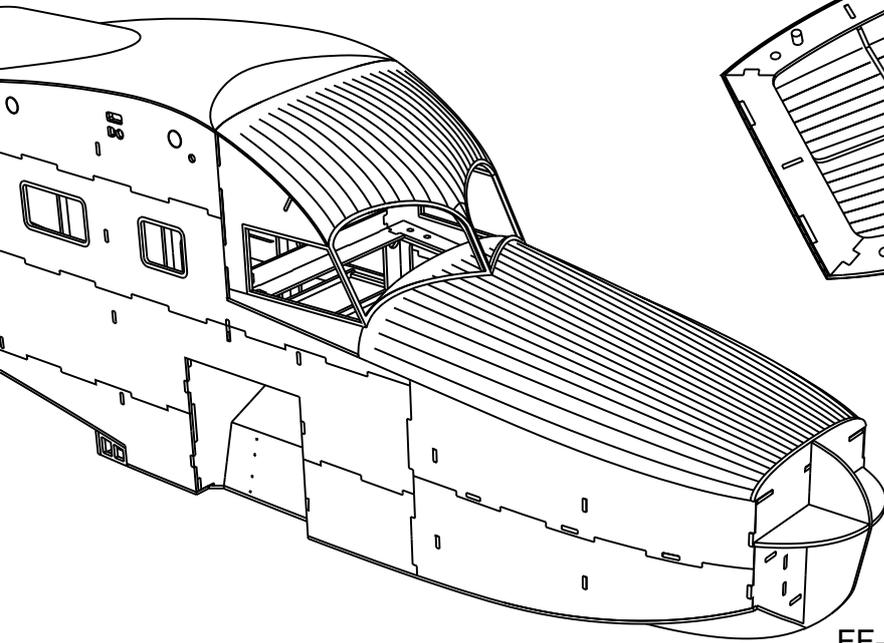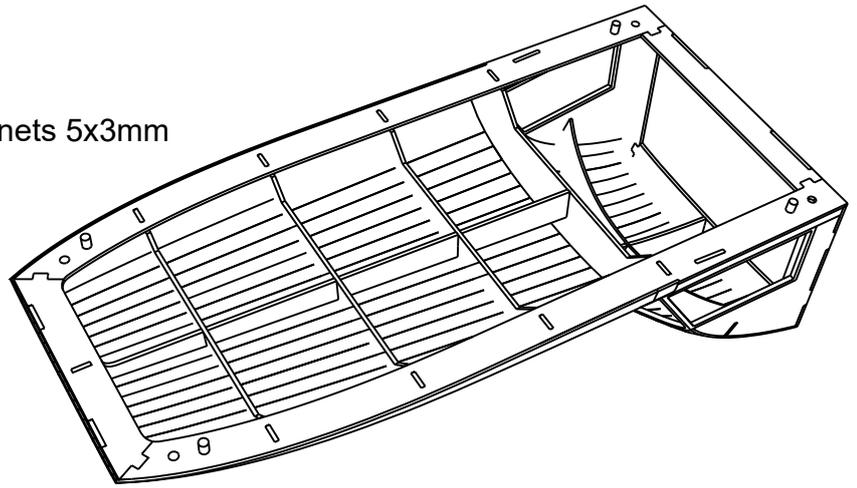
FF-N1

FF-N2

Add balsa block, make notch for battery lock tab
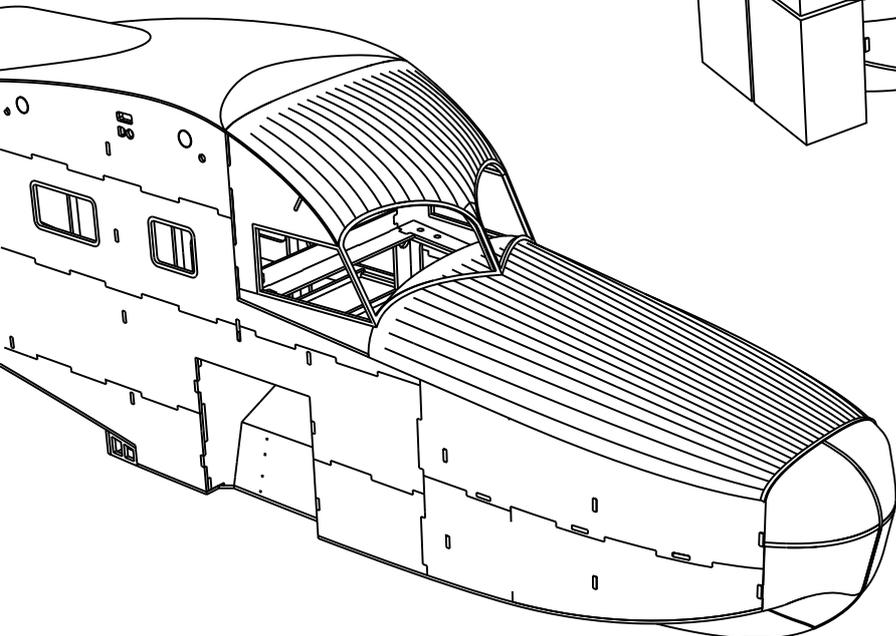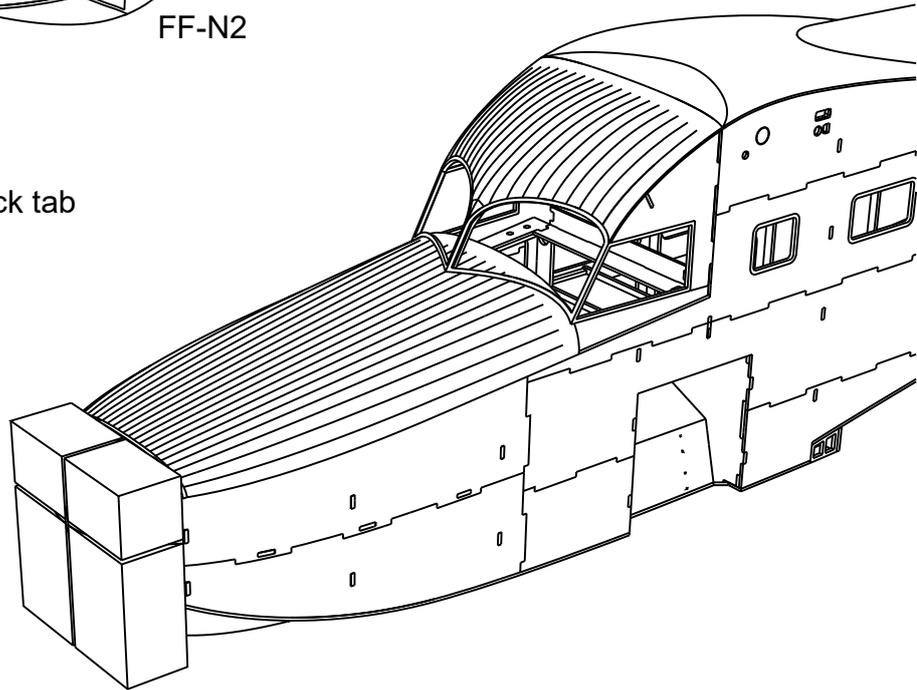
Sand to shape

# Wings
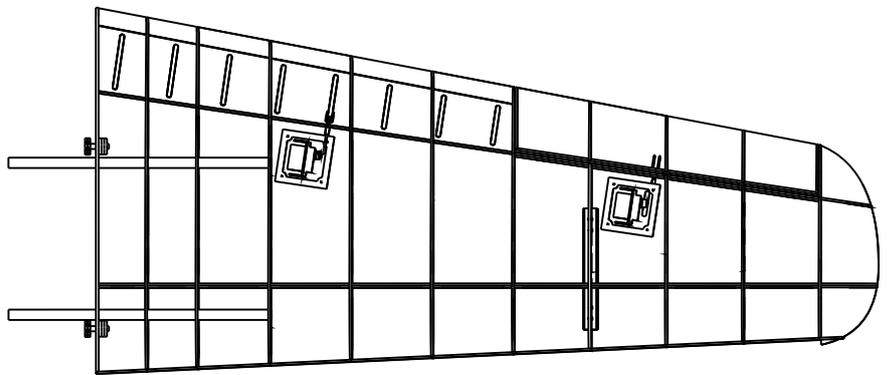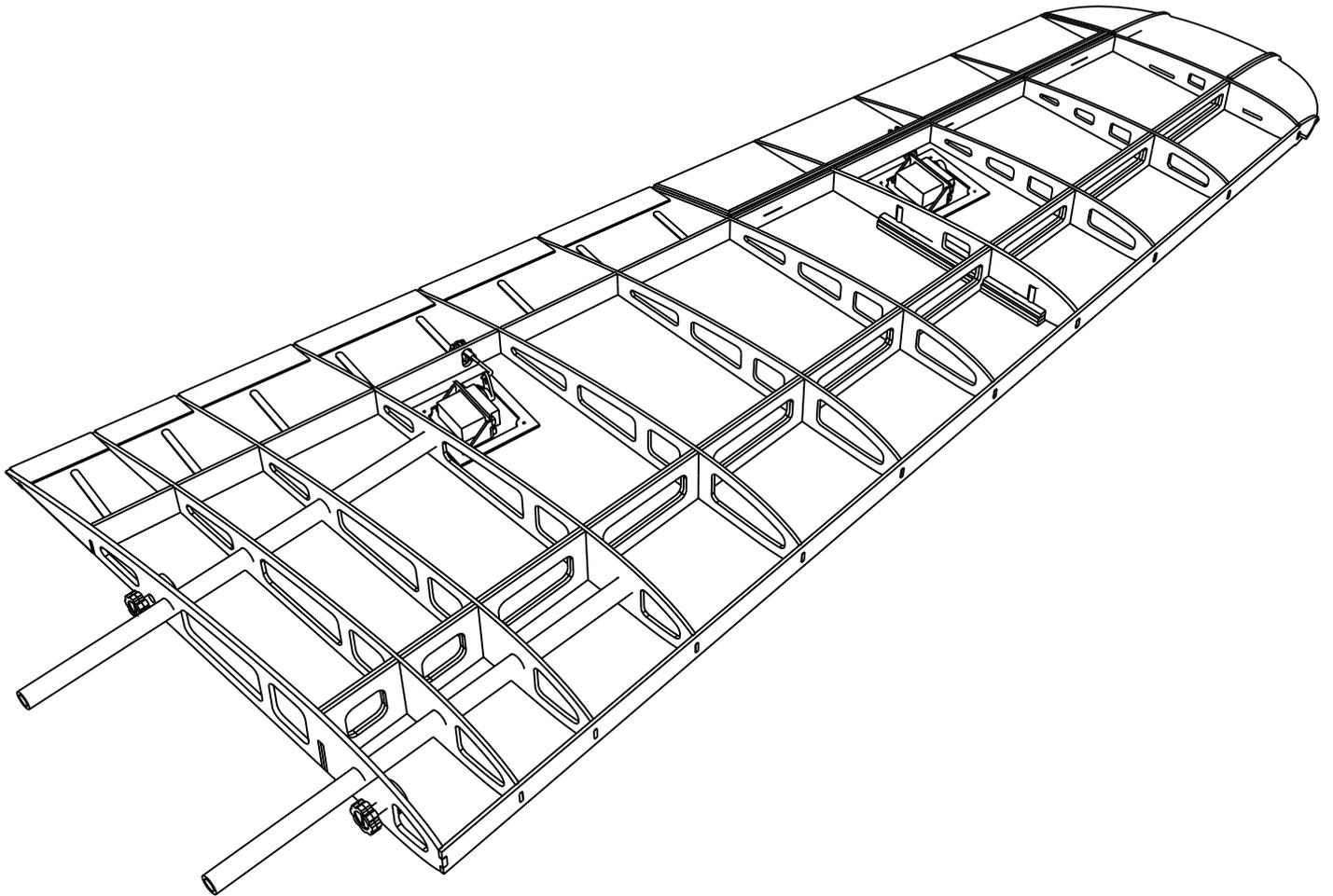
Hardware for this build stage

|			
6x*	Nylon hinge	16x35mm	max dimensions for hinge
2x*	Ball-link	M2	
2x*	Machine screw	M2x12mm	Stainless steel
2x*	Nut	M2	Stainless steel
2x*	Washer	M2	Stainless steel
2x *	Threaded pushrod	M2	Cut to size
2x*	Pushrod connector		
2x*	Hitec HS-85BB		Mighty micro + mounting hardware
8x*	Self tapping screw	2mm	
4x	CF Wing tube	300x12mm	Cut to from supplied CF tube
4x	Nylon nut	M6	
4x	Round magnet	5x3mm	
4x	Brass Tube	16x5x4.1mm	Cut to from the supplied brass tube
2x	MPX Connector female		
2x	ESC wires	14 AWG	
--	Servo wiring		See YouTube channel for reference
1x	120° led red	5mm	+resistor
1x	120° led green	5mm	+resistor
2x	Led warm white	7.6mm	Hyperflux led + resistor

*When installing flaps these items are necessary in double quantity

W-R1

Nylon bolt M6

W-MS

W-MS

B2

B1

Nylon nut M6

HEX

6M

W-R1

W-R2

W-R3

W-R4

W-R5

W-R6

W-R7

W-R8

W-R9

W-R10

W-R11

W-AI

W-SLE

W-TE

W-STE

W-TP

Round magnet

W-FM1

Brass tube

W-FM2
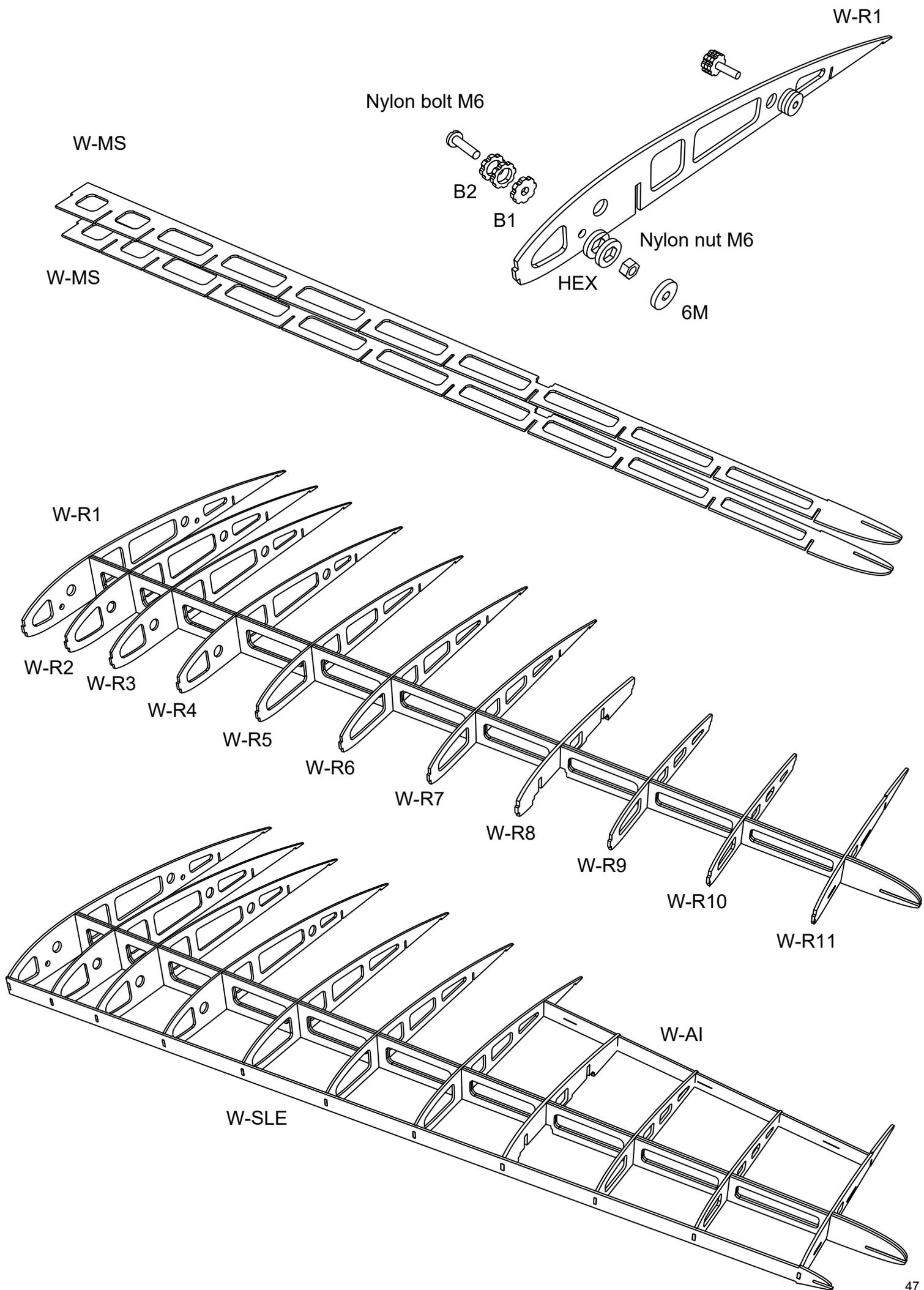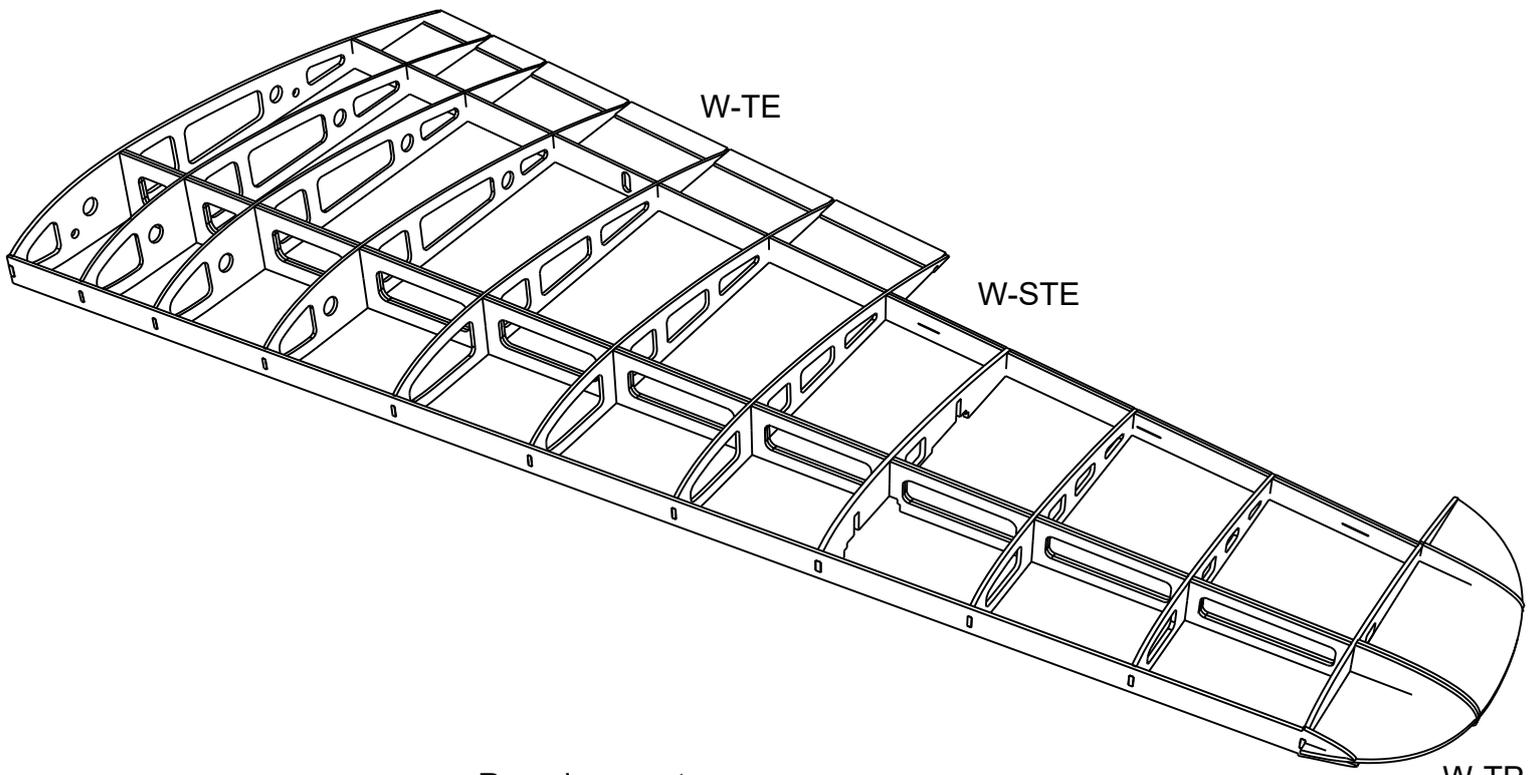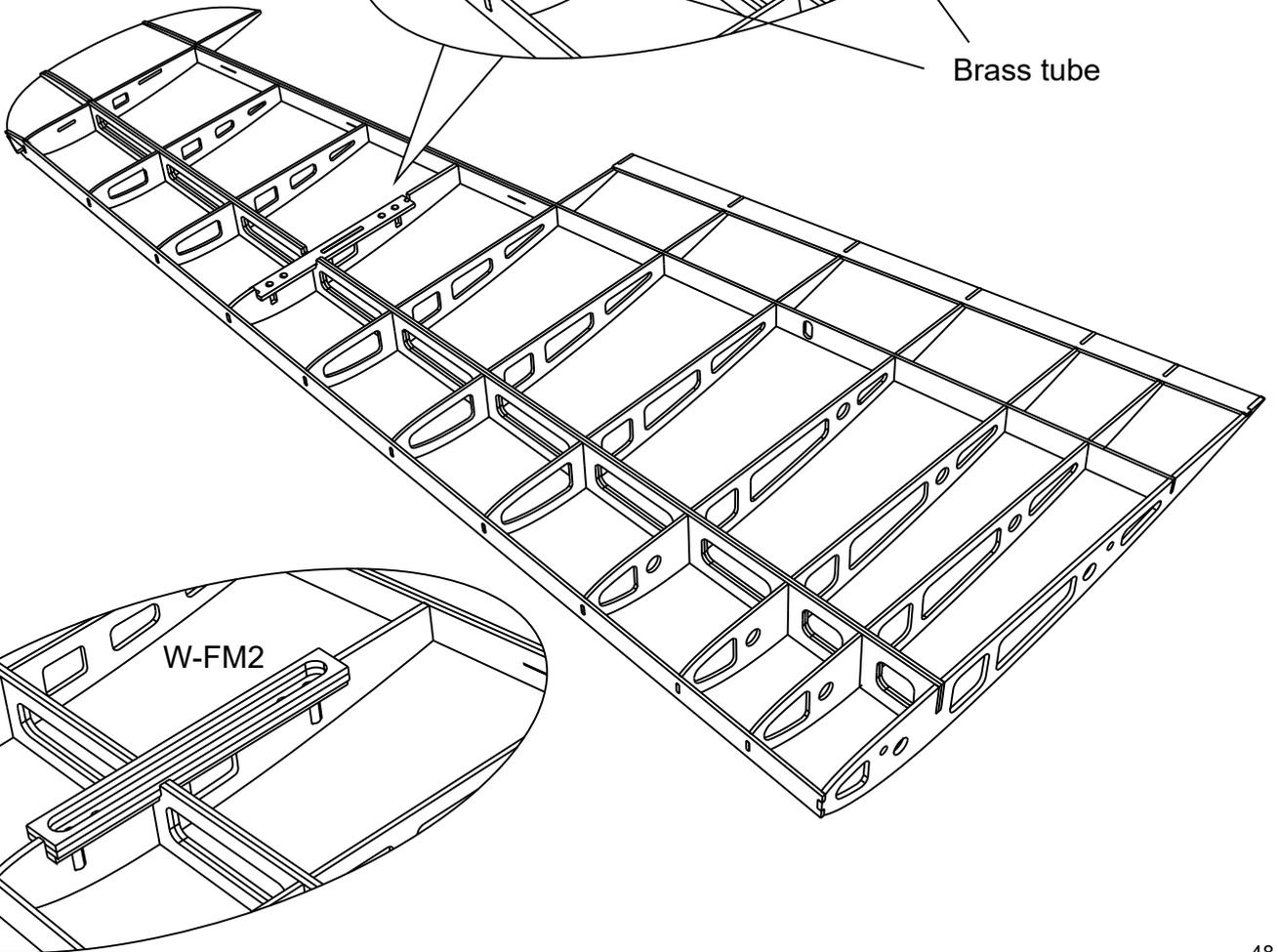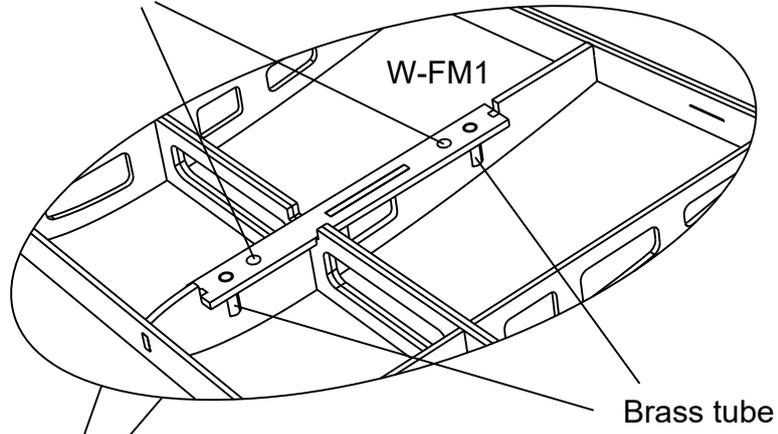
Prepare 1.5mm balsa wing sheeting

Flap bay is sheeted when not using flaps

Cut opening for tip float mount

H
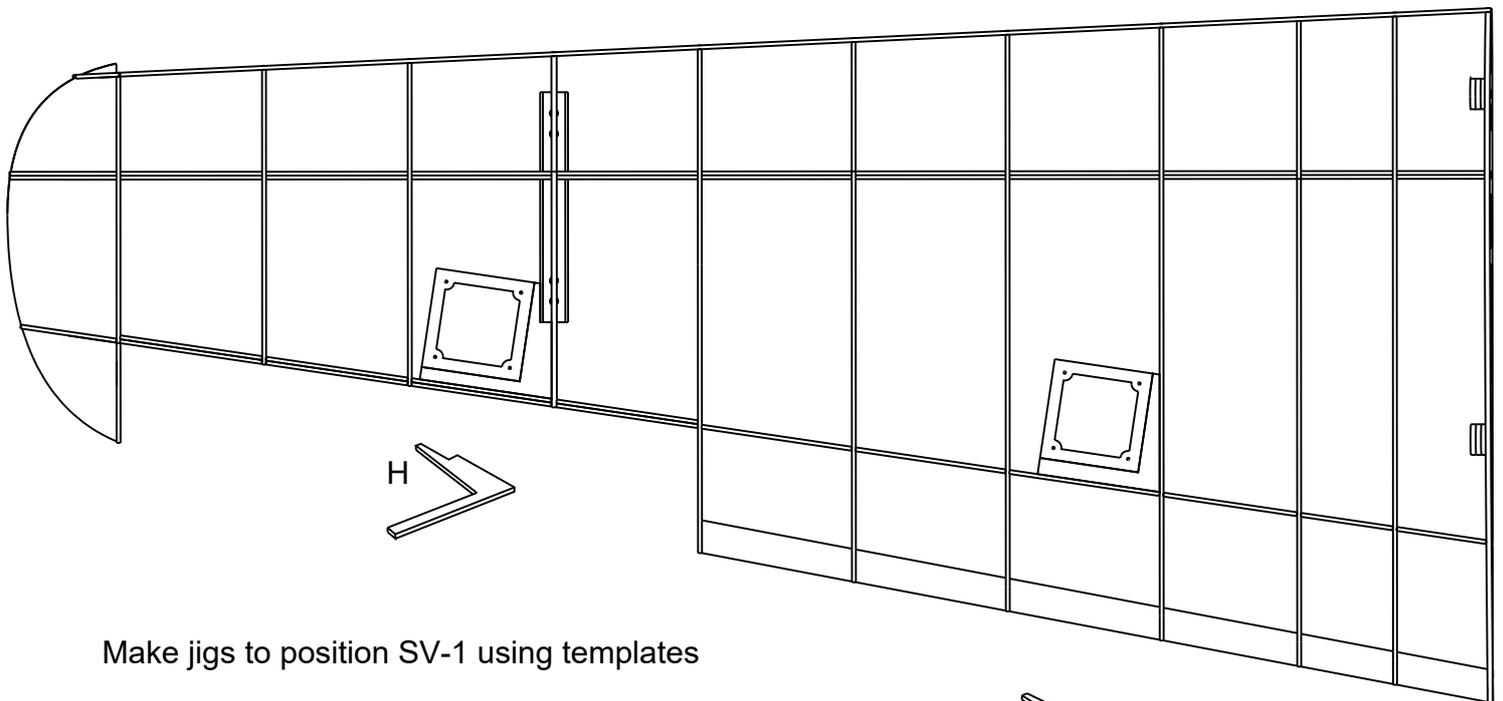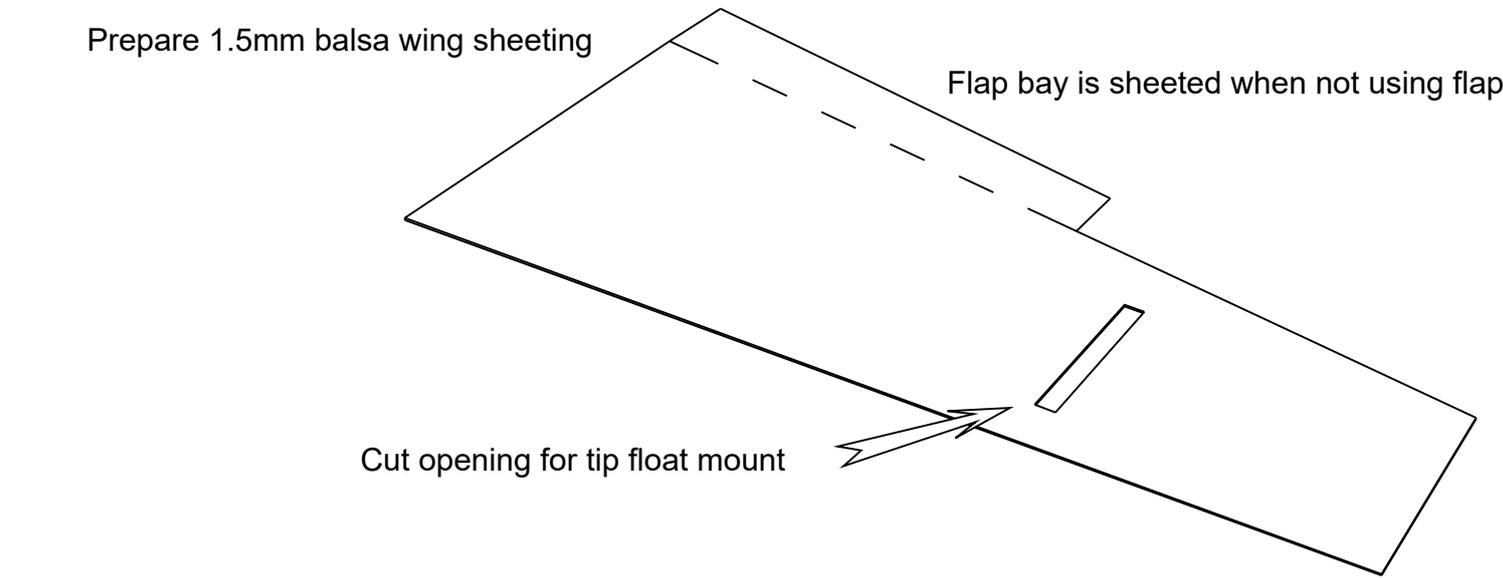
Make jigs to position SV-1 using templates

I

Drill 1.5mm holes in wing sheeting when SV-1 is in the correct place

49

Fix SV-2 and SV-3 with screws.

And cut opening in wing sheeting
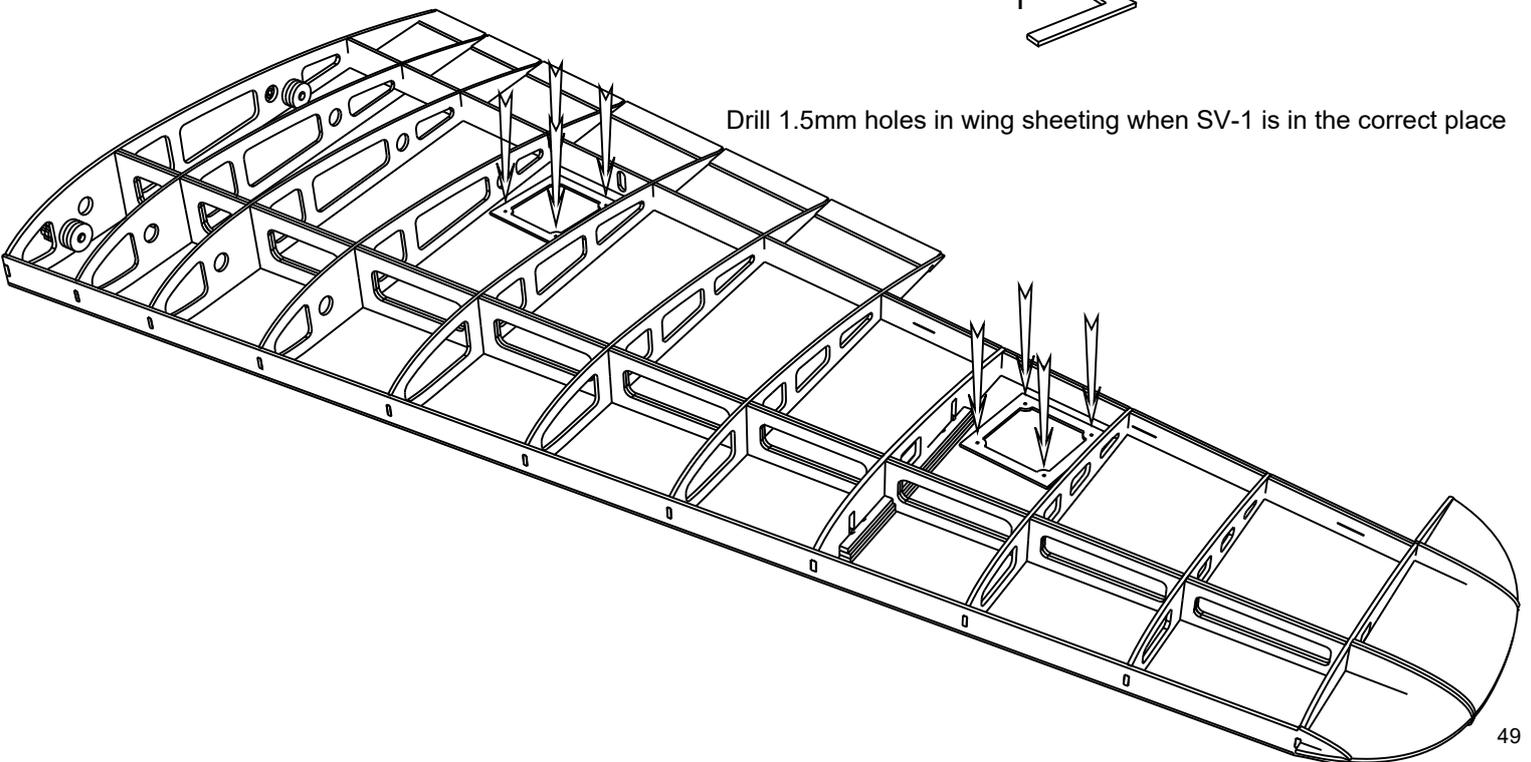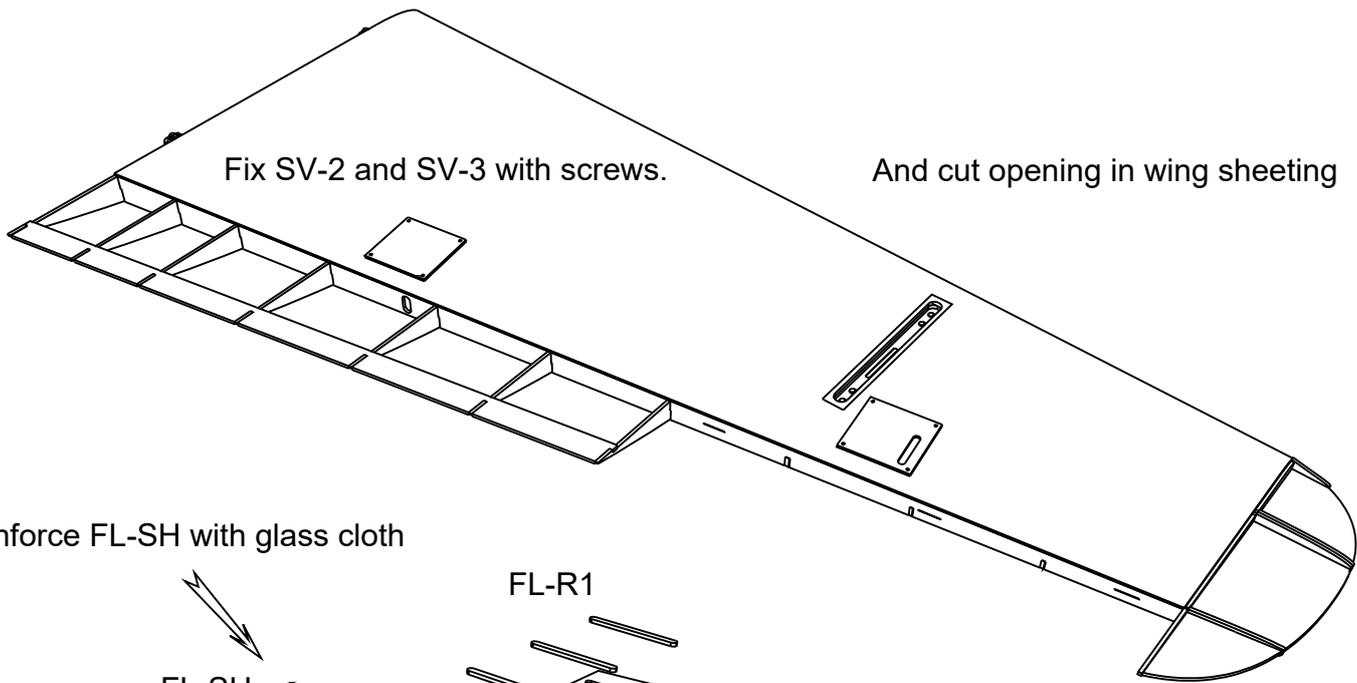
Reinforce FL-SH with glass cloth

FL-R1

FL-SH

W-FL

FL-R8
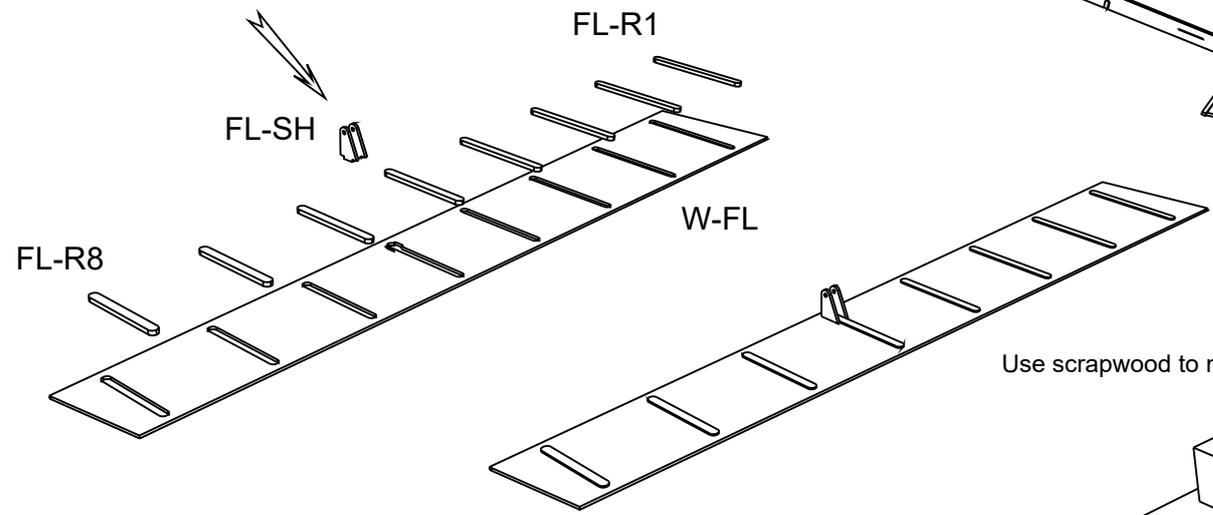
Use scrapwood to make servo mounting blocks.
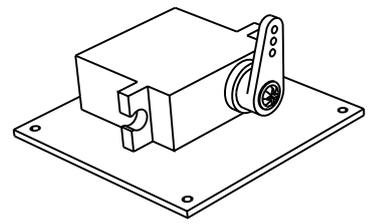
Install flap and linkage

Install mounting blocks and servo while servo cover is mounted in wing!

Pushrod connector

Nut

Pushrod

Washer

Machine screw

Hinge flap

50
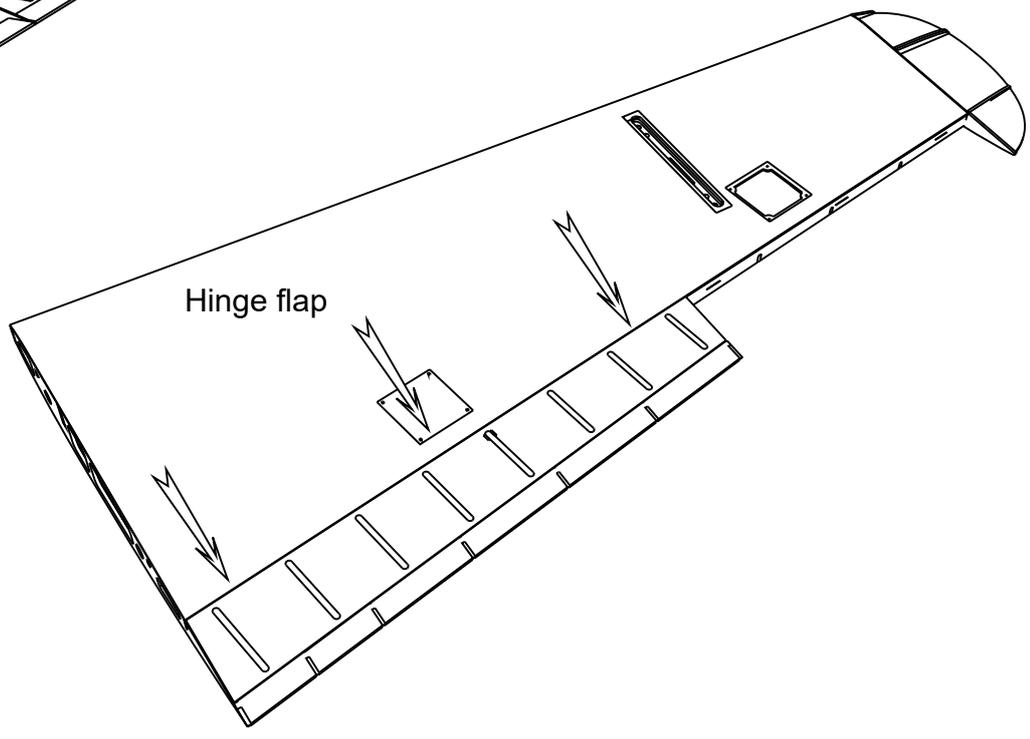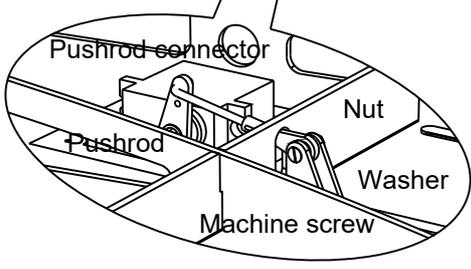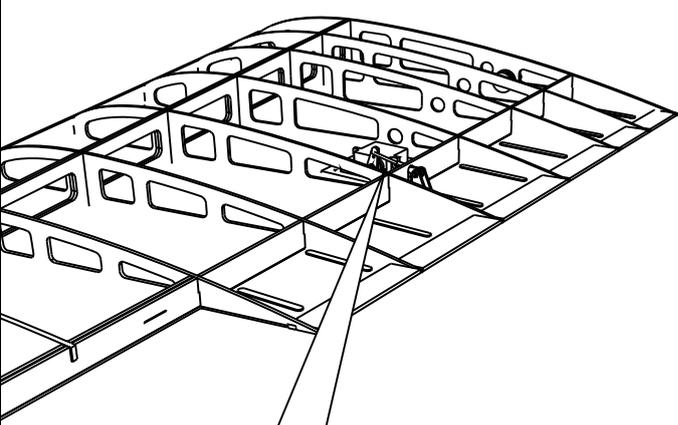
Install rear wing tube, use rings 12m to reinforce ribs if necessary

Wing tube extends 95mm !
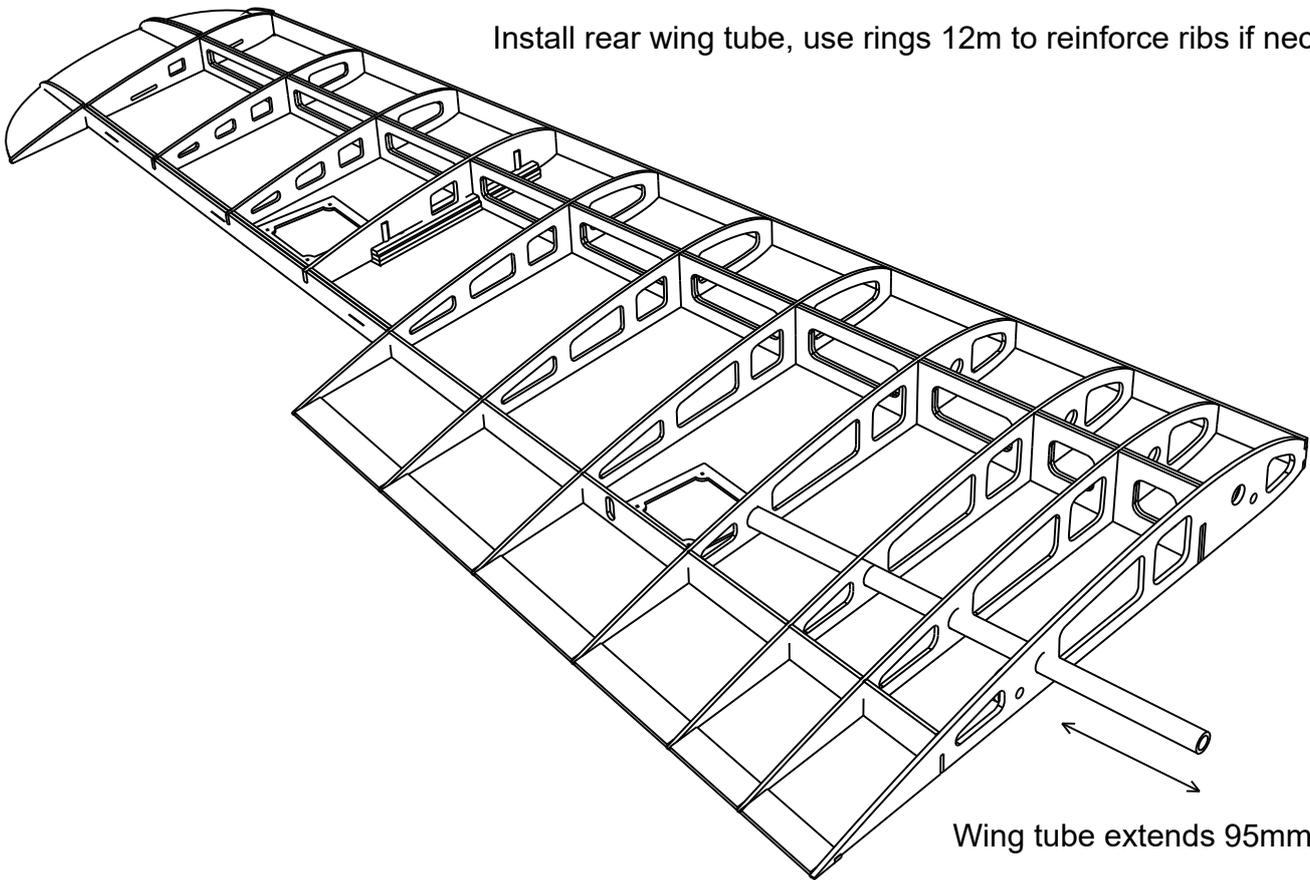
See video on YouTube for reference

Weight wing down on flat surface here

5mm jig here to make washout
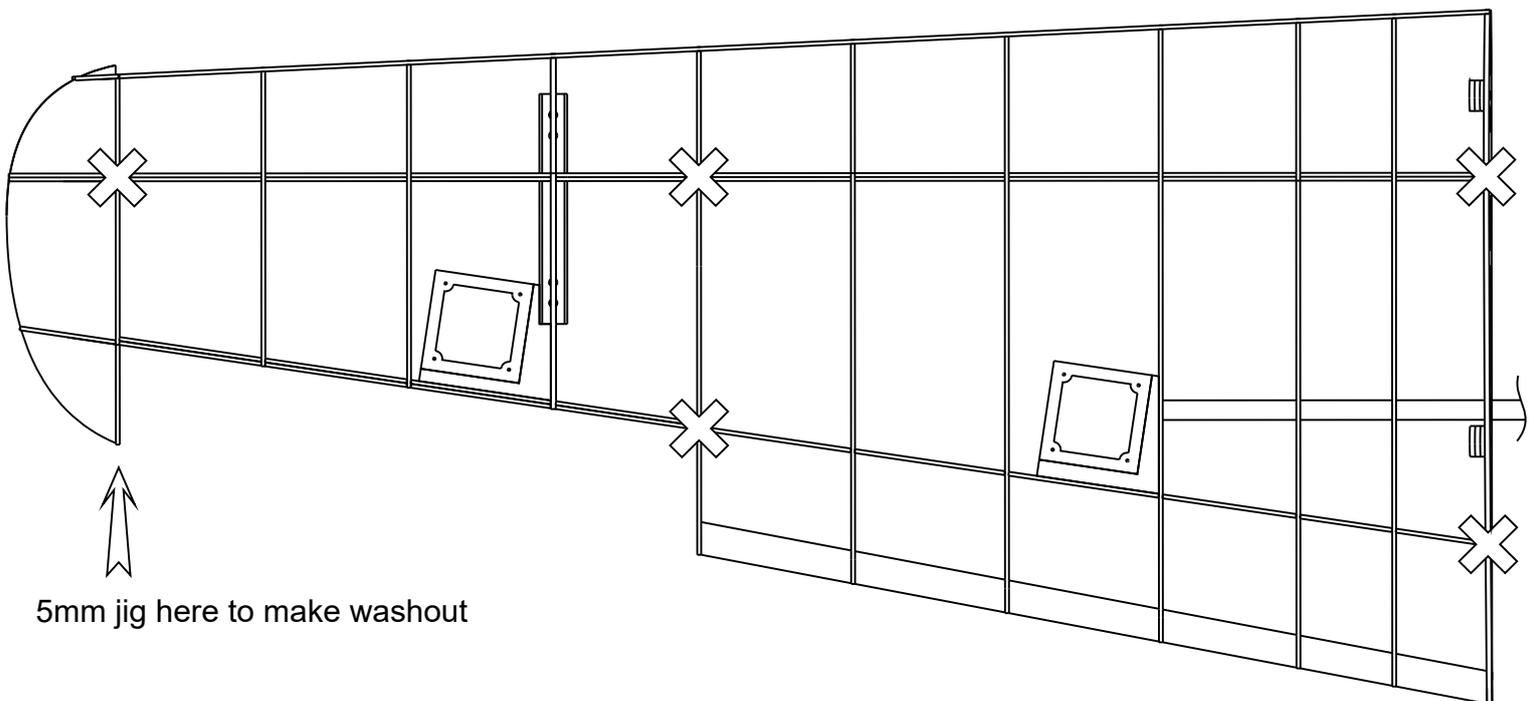
With wing weight on surface close the D-Box with 1.5mm balsa

Sheet wing with 1.5mm balsa

Aply balsa leading edge and wingtips

K
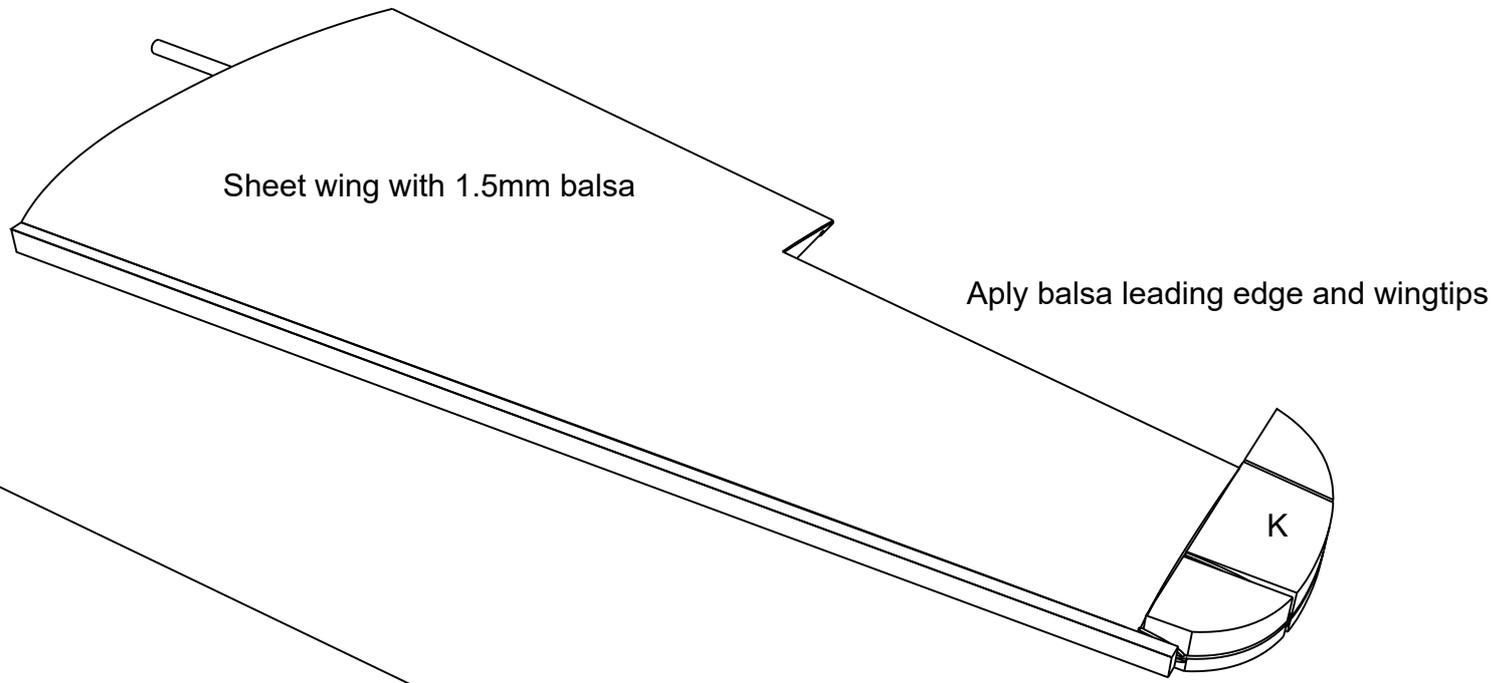
Use templates K to make the wingtip blocks

Cover aileron cove at this point.

Sand L.E and tip to shape, use template J as guide on root

AI-LE

AI-SLE

AI-BS

Use scrapwood to make servo mounting blocks.

Install mounting blocks and servo while servo cover is mounted in wing!
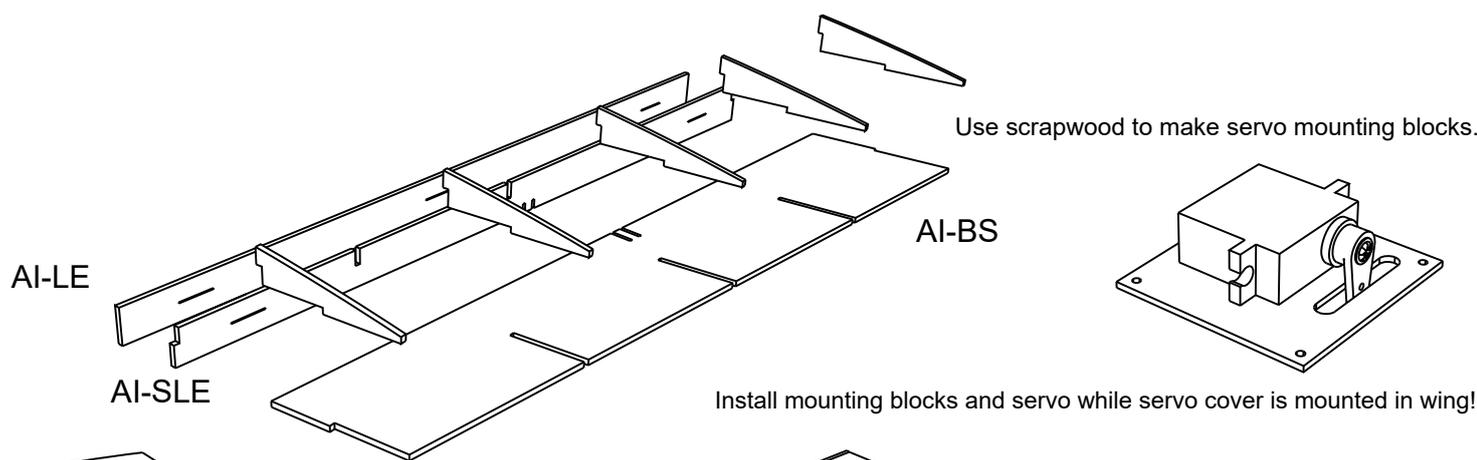
Sand leading edge to shape

L.E. cross section

AI-SH
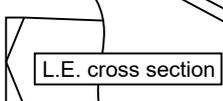
Install hinges and cover aileron

Reinforce AI-SH with glass cloth

Install aileron

Pushrod connector

Ball link

Machine screw

Nut

Pushrod
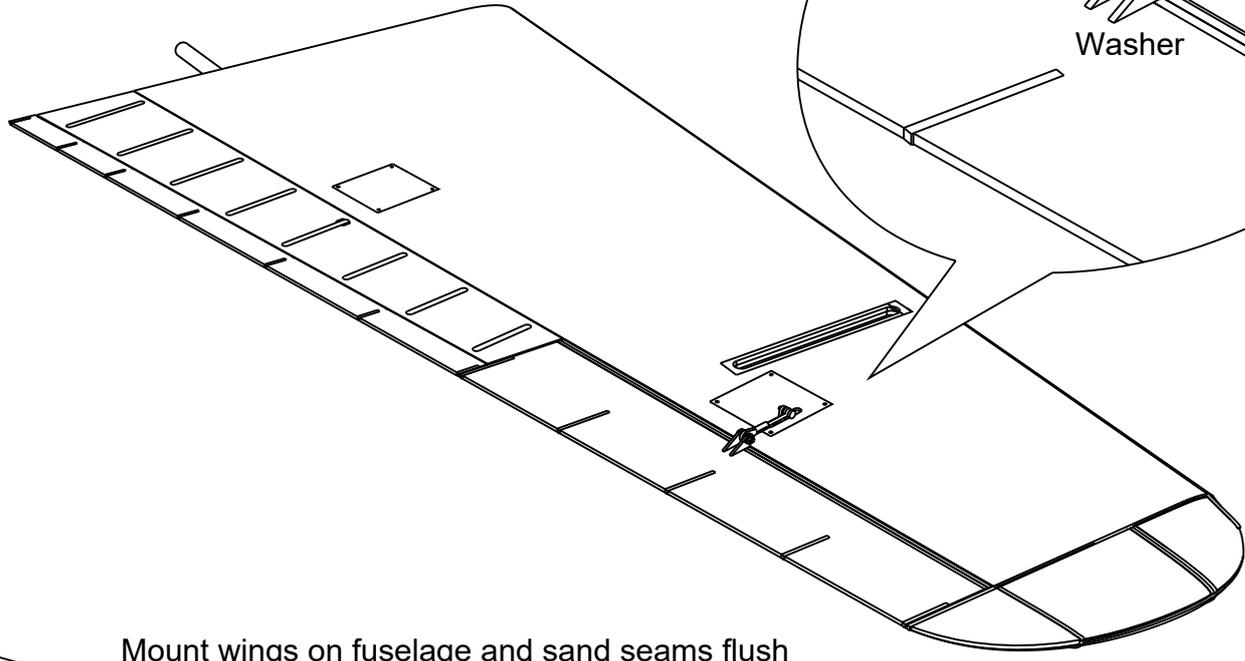
Washer

Mount wings on fuselage and sand seams flush
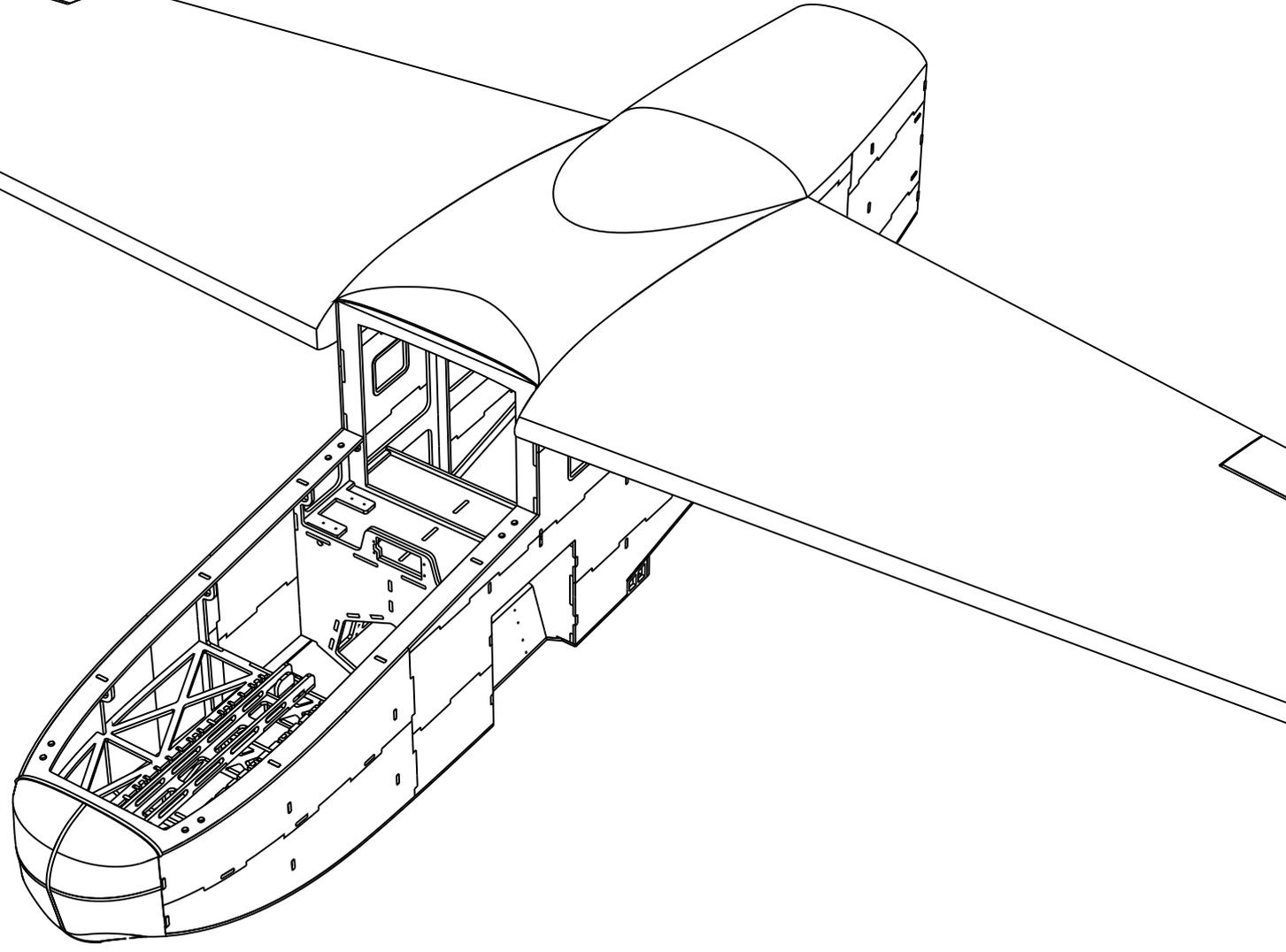
Nacelles
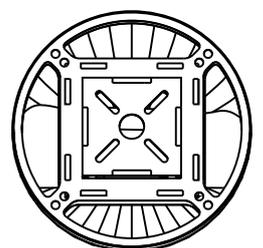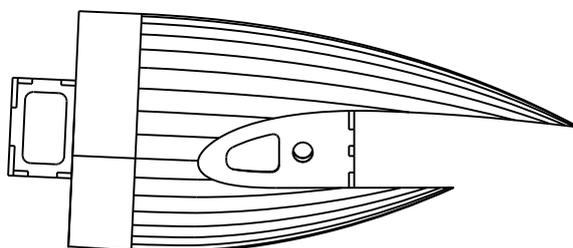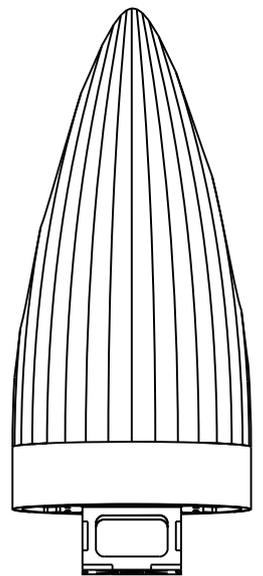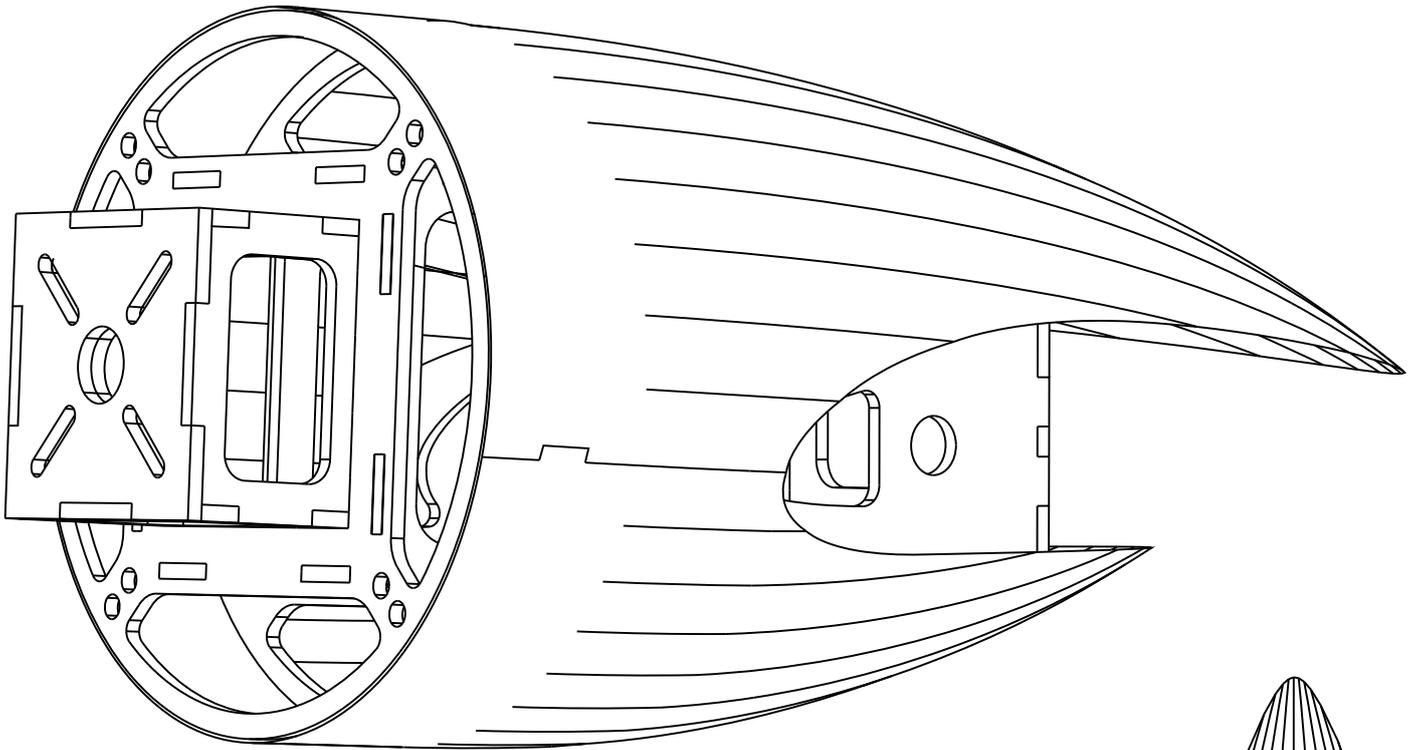
Hardware for this build stage

8x	Round Magnet	5x3mm	
8x	Roundwood dowel	15x5mm	
8x	Weft nut	M3	
8x	Allen bolt	M3x15mm	Stainless steel
8x	Washer	M3	Stainless steel
2x	Set power wires	14AWG	
2x	EC3 connector female		
2x	ECS	35 to 60A	
2x	Motor	Turnigy G10 to G32 (for size reference)	

NC-2

NC-1

NC-5

NC-3

NC-4

NC-4

NC-F1

NC-M1

NC-M2

NC-MMd

NC-MM

Round magnet

56
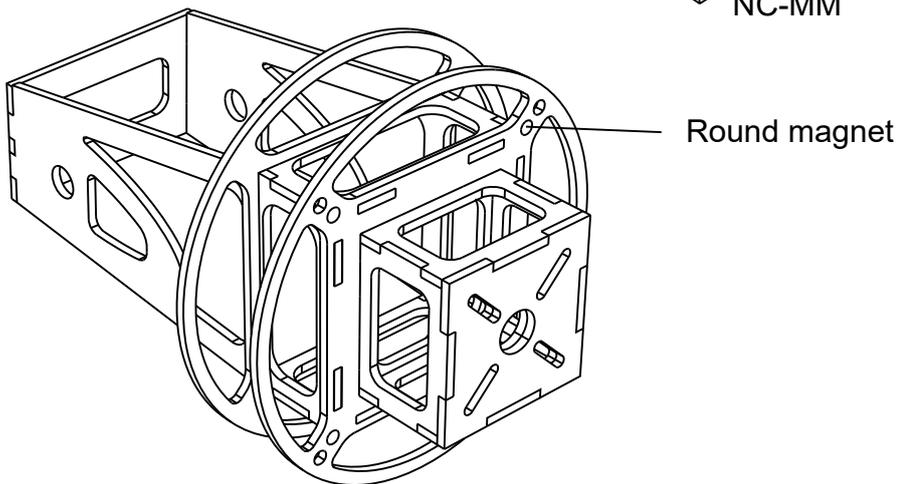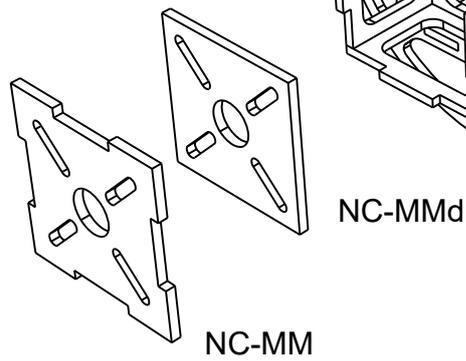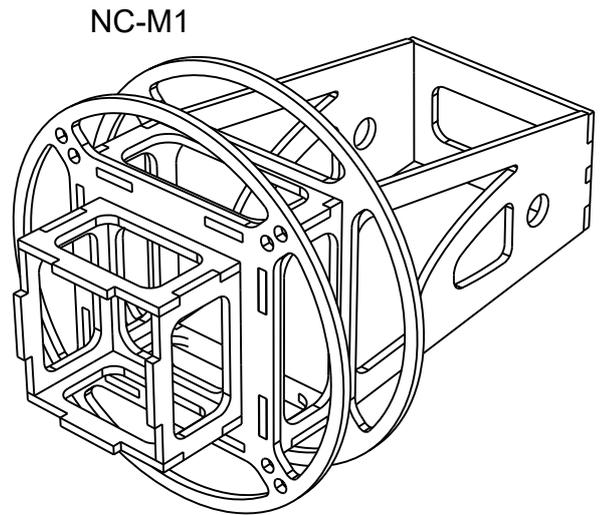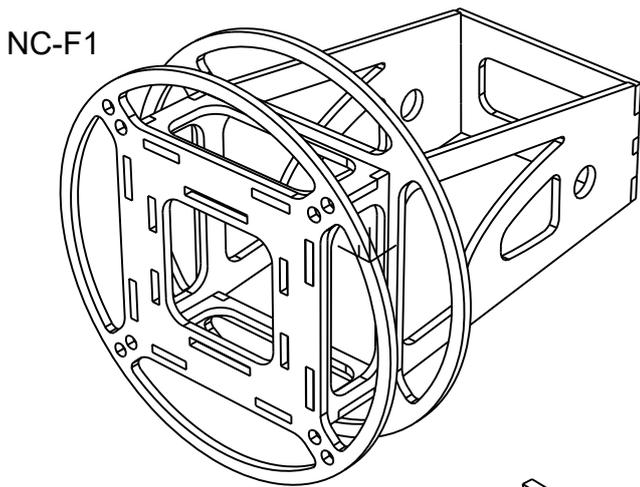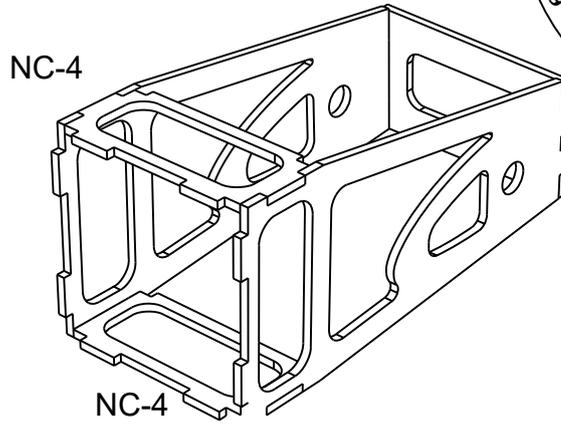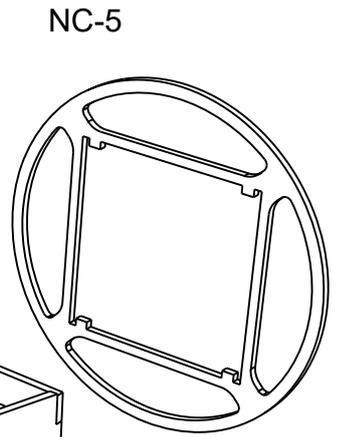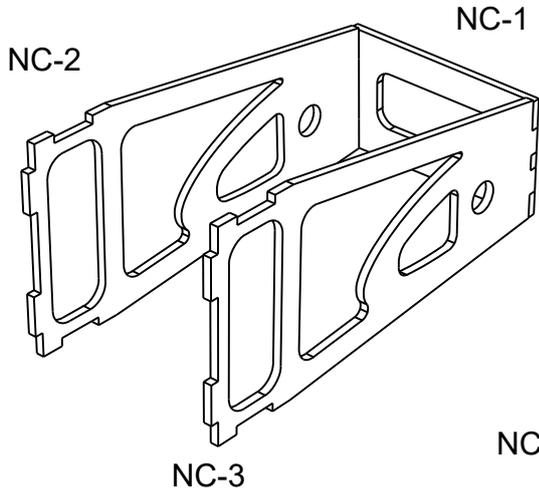
Make cutout in wing surface
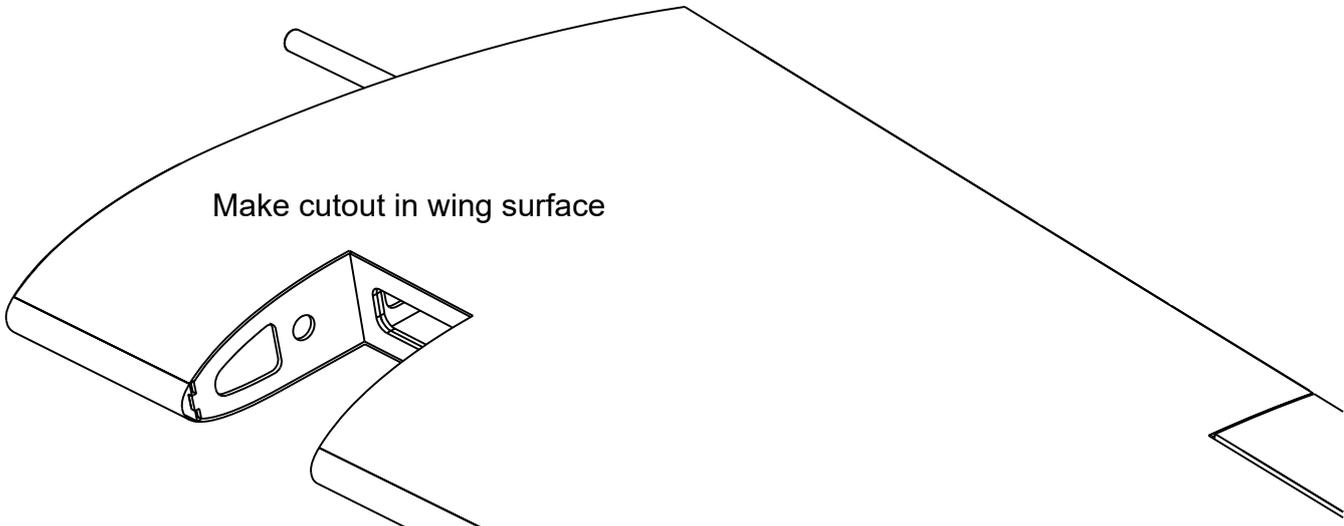
Glue nacelle in plane and fix with wingtube
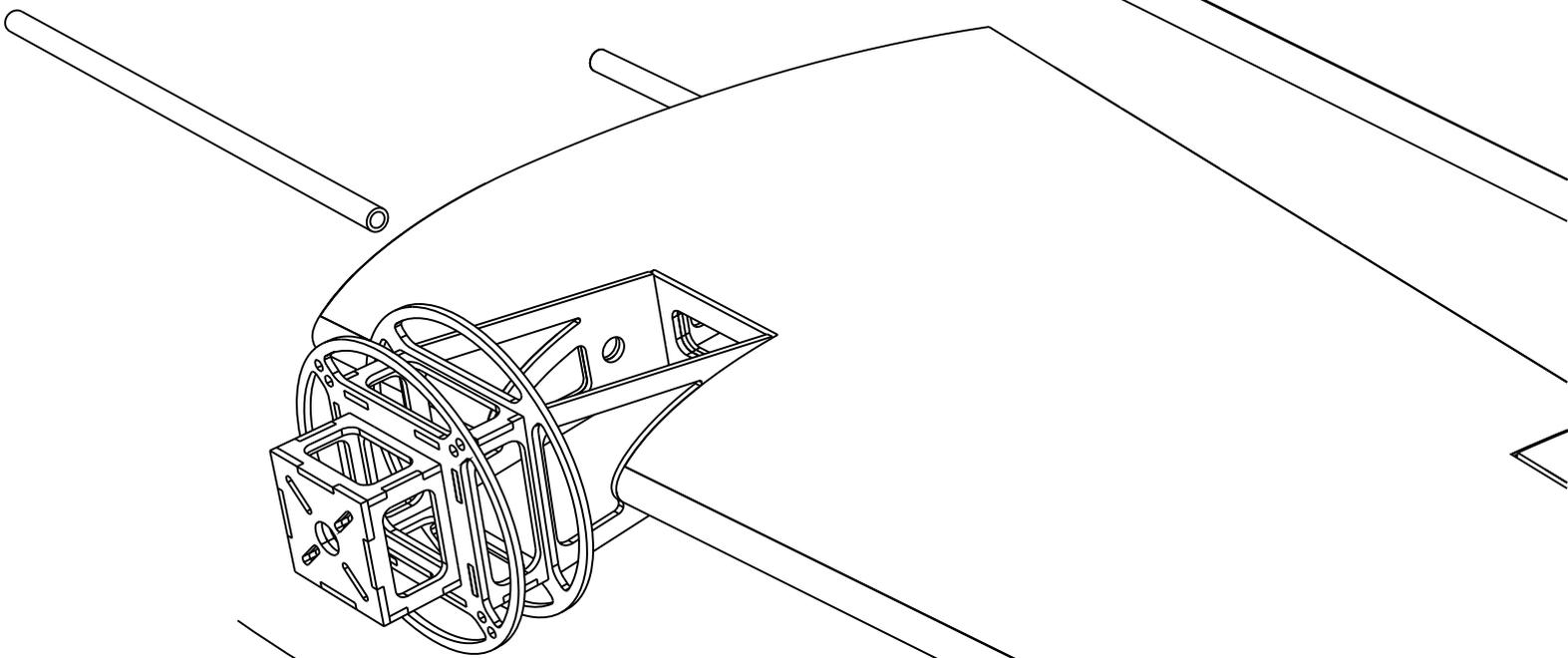
Wingtube extends 95mm
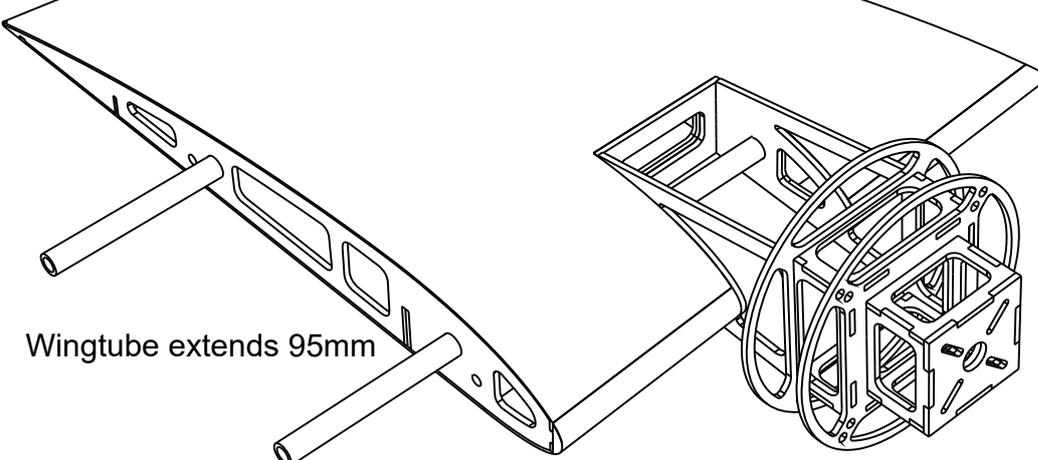
Nacelle pre-cut strip planking

Lasercut lines are not 90 degrees.
Side were laser enters the wood needs to be at the bottom.
This is the side with the engraved part labels.

Tip

NC-BO

NC-TO
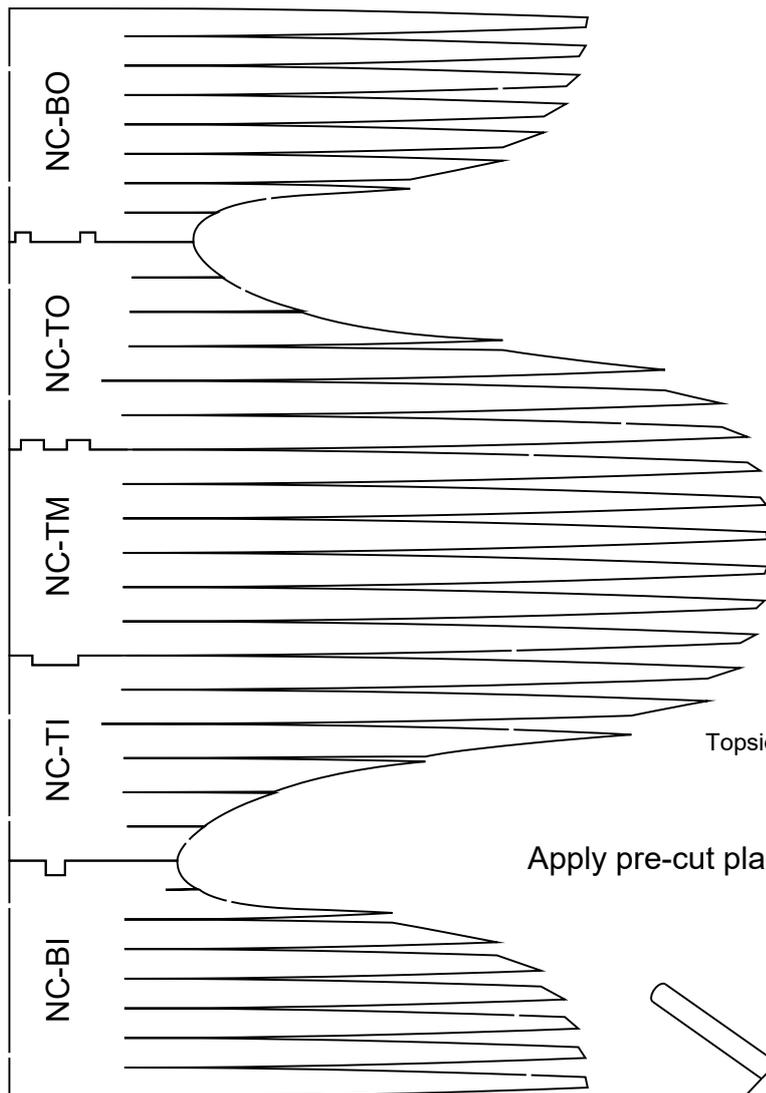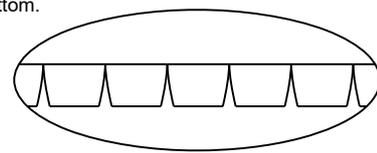
NC-TM

NC-TI

NC-BI

Root

NC-BO = nacelle Bottom Outer

NC-TO = nacelle Top Outer

NC-TM = nacelle Top Middle

NC-TI = nacelle Top Inner

NC-BI = nacelle Bottom Inner

Topside of sheet need to be on the inside !

Apply pre-cut planking
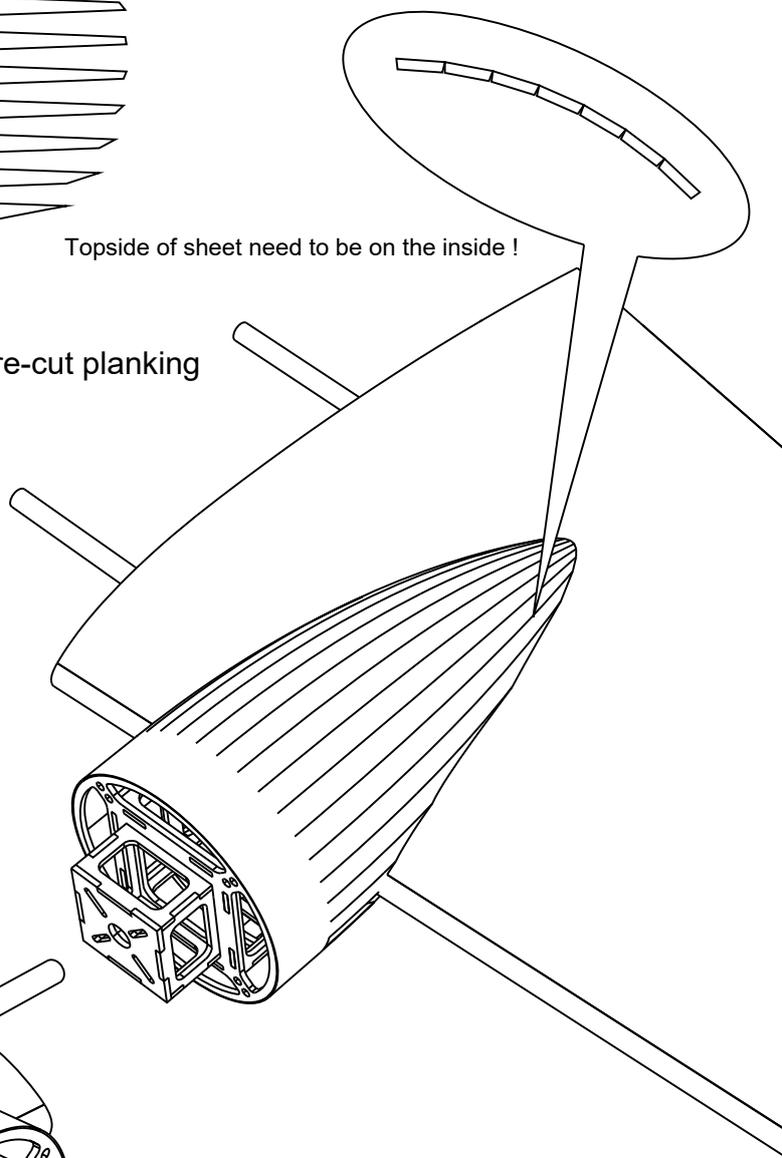
Mount motor
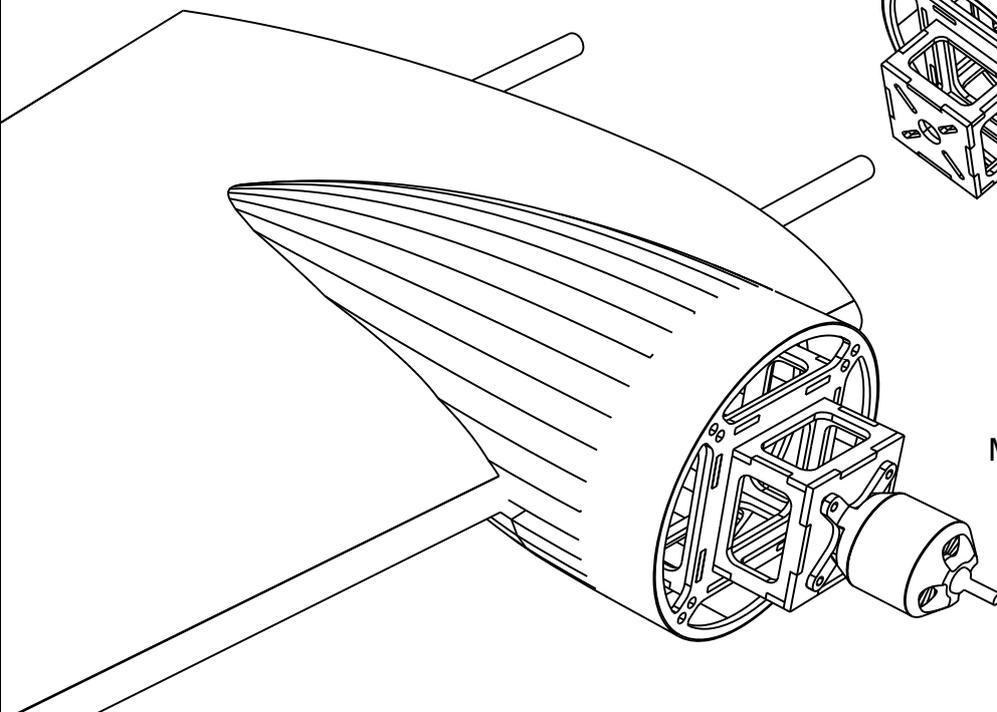
# Cowlings
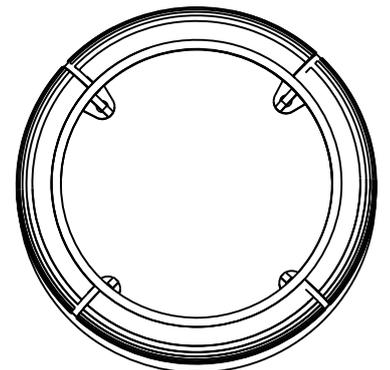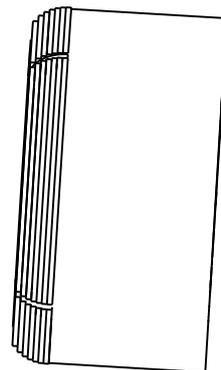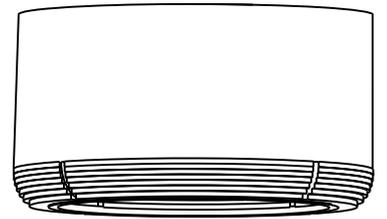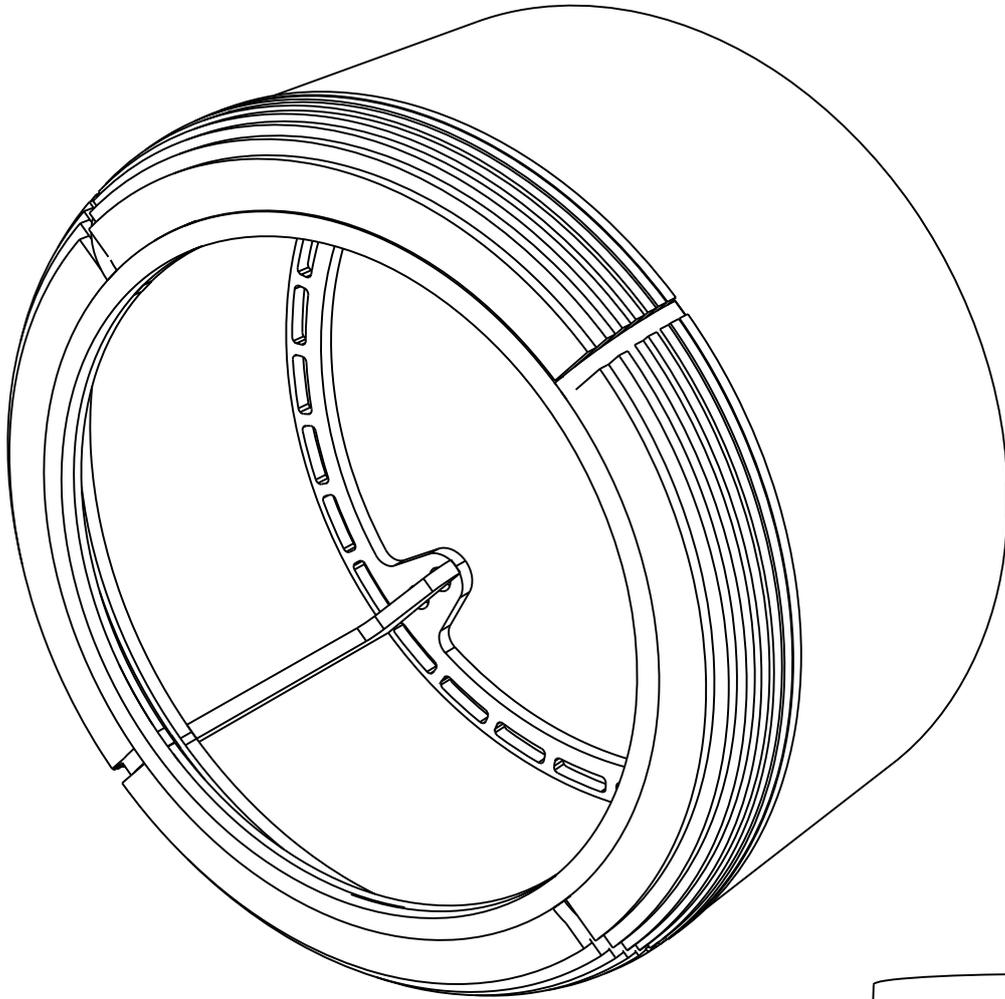
Hardware for this build stage

8x	Round magnet	5x3mm	
2x	Dummy Radial	5 ¾''	Parkflyerplastics
4x	Roundwood dowel	15x5mm	

ParkFlyerPlastics
5 3/4" radial front 9cyl. P/N 1027-24

MM