

Bücker JUNGMEISTER

Bü133 1/5

Build instructions



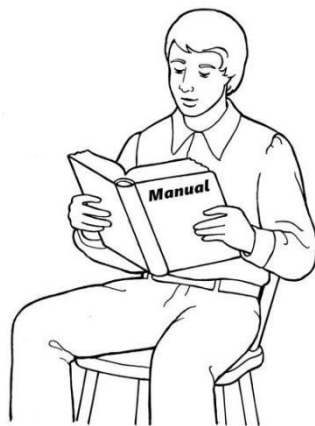
Specifications	
Wing Span	52in / 132cm
Wing Area	41.3 sq dm
Structure weight	1.2 kg
Flying weight	Ca. 2.2 kg
Fuselage length	Ca. 115cm
Scale	1 / 5

Requires
RC transmitter with at least 4 channels
Aileron:25g servos*2
Rudder&Elevator: 43g servos*2
Motor system: 3530 Brushless motor(EP) 52-70 four stroke engine(GP)

BEFORE YOU BEGIN

Attentions and Tips

1. Read through the manual before you begin, so you will have an overall idea of what to do.
2. Check all parts. If you find any serious defects or missing parts, please contact your local dealer.
3. Please build your kit in strict accordance with the sequence of the user manual.
4. Pre-Sanding: Before removing any parts from the laser-cut plywood sheet, use a sanding block loaded with 250 - 400 grit sandpaper and lightly sand the back side of the sheet. Which can significantly reduce burn marks of the wood and make the parts match better
5. Before building the model part on drawings, It is recommended to cover a layer of kitchen cling film (polyethylene film) on the drawing. This way can prevent parts from sticking to the drawing and causing damage.
6. Parts Assembly: This product's tabs and notches interlock like a 3D puzzle. We strongly suggest that when fitting parts, you "dry fit" (use no glue) the parts together first. It is advised to work 1 - 2 steps ahead in the instructions, using this dry-fit technique. This allows the opportunity to inspect the fit and location of assembled components, and shows the benefits of our construction technique. As each successive part is added, it contributes to pulling the entire assembly square. Once you arrive at the end of a major assembly sequence, square your work on a flat work surface, and bond the dry-fit joints with glue. Using the dry-fit process, you'll be able to recover from a minor build mistake, and will ultimately end up with a square and true assembly.
7. This is a precision laser-cut kit. Our lasers cut to within 0.2mm in accuracy. Yet the wood stock supplied to us by the mill may vary in thickness by up to 0.2-0.3mm. This variance in the wood stock can cause some tabs and notches to fit very tightly. With this in mind, consider lightly sanding or lightly pinching a tight-fitting tab, rather than forcing the parts together. You may break some parts in assembly, but please don't worry, after the final covering work, it will not affect the strength and appearance of your model. You will end up with a circle and true airframe.




















KIT INVENTORY

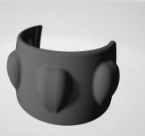

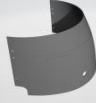

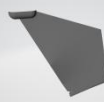


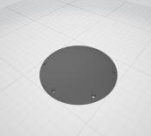


Wood Sheet Inventory		
Item:	Quantity	Mark
2.0mm Paulownia	11	A Series:A1-A11
3.0mm Plywood	3	B Series:B1-B3
2.0mm Plywood	4	C Series:C1-C4
3.0mm Paulownia	4	D Series:D1-D4
3.0mm Balsa	2	E Series:E1-E2
1.0mm Balsa	5	F Series:F1-F5
1.0mm Hard Plywood	1	G Series:G1
5.0mm Balsa	1	H Series:H1
1.0mm Soft Plywood	7	Unmarked

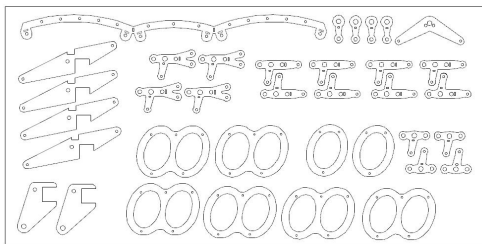
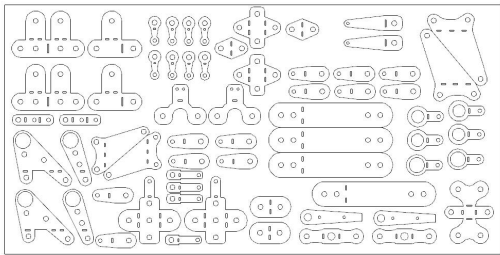
Wood Strips & Strip Parts Inventory	
Item:	Quantity
3*3mm Balsa , Length: 72+18cm	4
6*6mm Balsa , Length: 72+18cm	3
3*3mm Pine , Length: 72+18cm	6
6*2mm Pine , Length: 72+18cm	20
8*2mm Pine , Length: 72+18cm	2
PVC Tube (Outer Φ: 3mm, Inner Φ: 2mm),Length:72cm	2
Steel push rod(Diameter1.2mm),Length:72cm	2
Pine rod Φ6 mm, Length: 50cm	2
Steel cable Φ:0.8mm	5m

Hardware					
Item	Quantity	Item	Quantity	Item	Quantity
M3*10 Screw 	8	M3 Flange nuts 	2	Micro Copper hinge 	6
M3 Cylindrical nuts 	4	M1.2*4 Screw 	Ca.120	M3 Φ4 Plug 	8
M2*9 Screw 	70	M2*5 Screw 	20	M2 Screw nut 	45
M3 Screw nut 	12	Copper bushing 	2	Wheel holder 	2
M2*8 Screw 	14	M1.6*6 Screw 	10	M1.6 Screw nut 	10
Metal Buckle 	2	Push rod connector 	2	Aluminum buckles 	60
M4*15 Screw 	8	Plastic hinge 	9	M2 joint 	6
M2 L30MM stud 	4	M3 L60 stud 	4	M3 L30 stud 	8
Spring 	2	M3 mini magnet 	8	M1*3 Screw 	50

Hardware					
Item	Quantity	Item	Quantity	Item	Quantity
Tail wheel module 	1	3" wheel 	2	M2 L45MM stud 	2

Plastic parts					
Item	Quantity	Item	Quantity	Item	Quantity
Cowl-bottom 	1	Cowl-top 	1	Top Cover 	1
Side Cover-Front 	2 (Left+Right)	Side Cover-Back 	2 (Left+Right)	Fuselage&Wing Fairing 	2 (Left+Right)
Muffler 	1	Wheel hub cover 	2		

Sheet parts	
1:1 drawing	2
Panel decals	1
Pu Leather Ca. 15*15cm	1
Laser cut PVC Sheet	1
0.3mm aluminum sheet 20*10cm	3

Laser cut Steel parts	
	

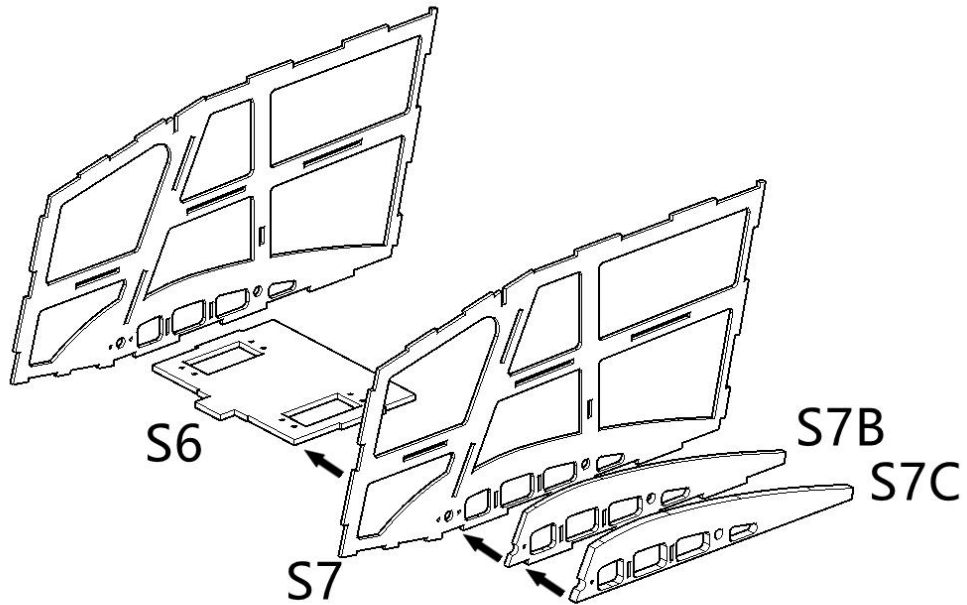
Metal tubes		
	Item	Quantity
Tubes For Landing gear	Φ6 Steel tube. Length: ca.127mm. Φ2mm Hole at one end	2
	Φ4 Steel tube. Length: ca.150mm. Φ2mm Hole at both ends. Been bent	2
	Φ3 Aluminum tube. Length: ca.168mm.	2
	Φ4 Aluminum tube. Length:ca.100mm.	2
	Φ3 Aluminum tube. Length: ca.137mm.	1
Tubes For Struts	Φ4 Aluminum tube. Length:ca.145mm.	2
	Φ4 Aluminum tube. Length:ca.170mm.	2
	Φ4 Aluminum tube. Length:ca.131mm.	2
Wing Jigs	Outer Φ: 6mm, Inner Φ:4mm Aluminum Tube, Length:26cm	4



Part Location Lookup Form:			
Part Number:	Wood Sheet Number:	Part Number:	Wood Sheet Number:
1. Fuselage		F4A	B1
S6	B1	B1	C2
S7	C1	FC1	Unmarked 1.0mm Soft Plywood
S7B	E1	FC2	Unmarked 1.0mm Soft Plywood
S7C	H1	FC4	Unmarked 1.0mm Soft Plywood
F4	D4	FC5	Unmarked 1.0mm Soft Plywood
T4	B1	FC6	F4
B2	B3	FC7	F4
B2A	B3	2.Tails	
F5	B1	V1	A10
F2A	B2	V1A	A9
T3	C3	V2	D3
F3	D4	V3	E2
S4	B2	V4	E2
S3	B1	V5	E2
F2	D2	V6	E2
S5	B1	V7	E2
T2	B2	V1A	E2
F1	B2	V1B	E2
F1A	B2	H6	D2
T1	D1	R3	D3
S1	E1	R8	A9
FR1	C2	R9	A9
FR1A	C2	R10	A10
FR1B	C2	R1	E1
FR1C	C2	R2	E1
FR2	C2	R11	A9
FR3	G1	R12	A8
F5B	F5	H1	D3
F6	C2	H2	A7
F7	C3	H4	E1
F8	C3	H5	E1
F9	C2	H2A	D3
F6B	A9	H2B	F4
F9A	D2	H3	D2,E1
F10	B3	E3	D3
S2	D1	E4	A7,A8
S2A	D1	E1	E1
B3	D1	E2	E1
F9B	C2	E5	E1

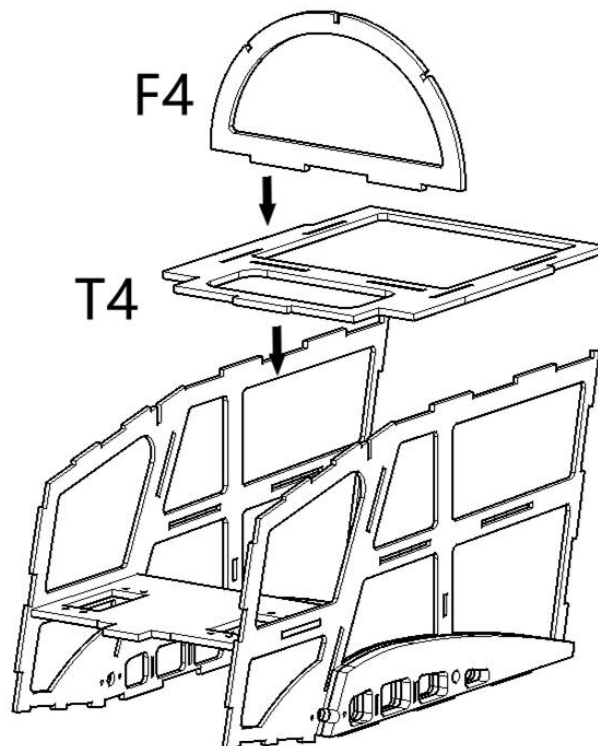
Part Location Lookup Form:			
Part Number:	Wood Sheet Number:	Part Number:	Wood Sheet Number:
E6	E1	W5	C4
E7	E1	W6	C4
E8	E2	R1A	C4
E10	D2	J1	B3
E9	A4	J2	B3
3.Central wing		WC3	F2,F3
CR1	B3	WC4	F2,F3
CR1A	G1	WC5	F3
CR1B	C2	W3C	H1
CR2	D3	8.Top Wings	
CR3	D3	W1-TOP	A1,A3
CR4	C3	W2-TOP	A1,A3
WC1	F4	R1	C4
WC1UP	F4	Other wing ribs	A1~A9
Wooden wing struts	C3,C4	W3	C4
4.Cabin doors& panel		W7	A1,A2
HD1	G1	R0	A9
HD2	B3	AL7	B3
CK1	A11	AL4	G1
CK2	A11	R1A	C4
CK3	G1	J1	B3
CK4	G1	J2	B3
5.Landing gear		WC1	F1,F2
LD4	D3	WC5	F3
LD1	D3	9.Ailerons	
LD2	D3	AL1	Unmarked 1.0mm Soft Plywood
LD3	D3	AL2	A2,A4
LD5	D3	AL3	A4
LD6	D3	AL5	G1
7.Bottom wings		AL6	Unmarked 1.0mm Soft Plywood
W1	A1,A3	AL7	G1
W2	A1,A3	AL8	G1
R1	C4		
Other wing ribs	A1~A9		
W3B	C4		
W7	A1,A2		
R0	A9		
AL7	B3		
AL4	G1		
W4	C4		

1.ASSEMBLY-Fuselage

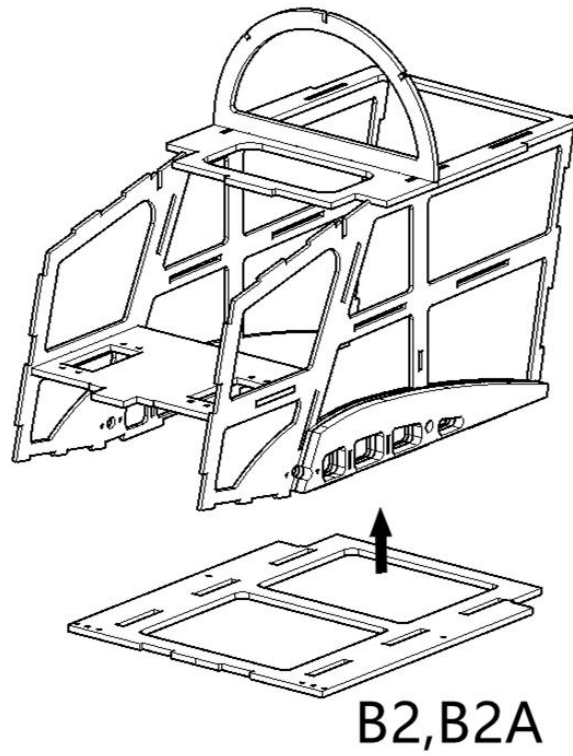


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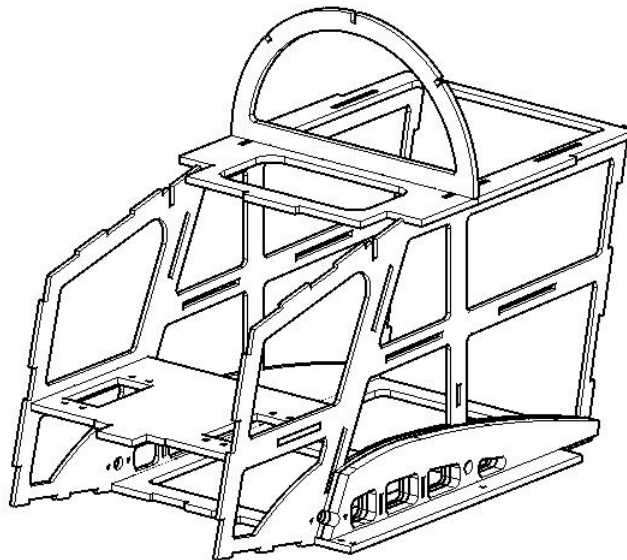
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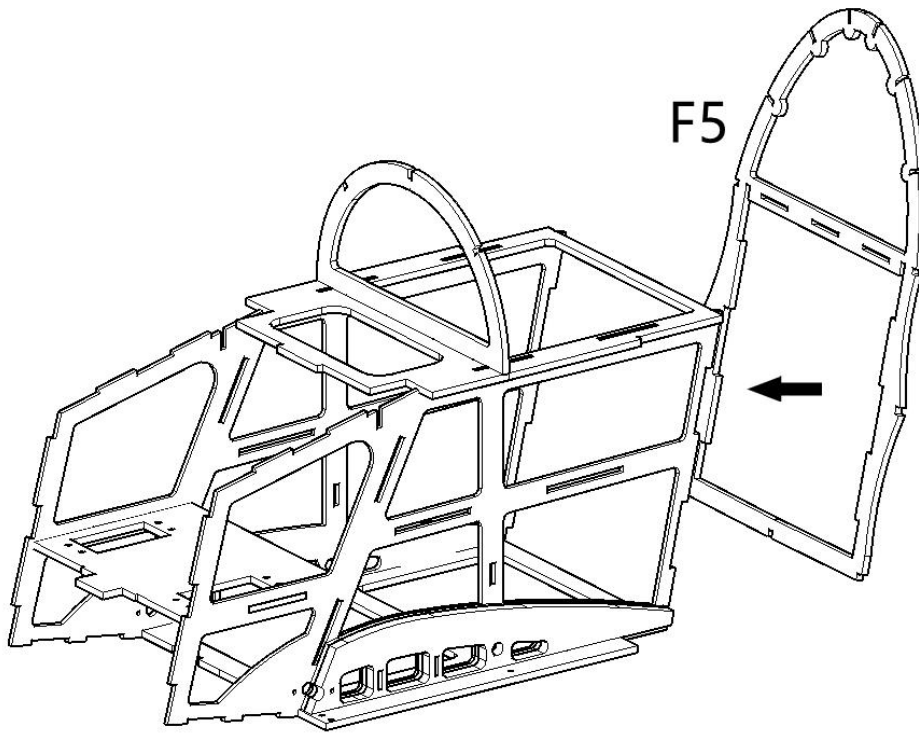
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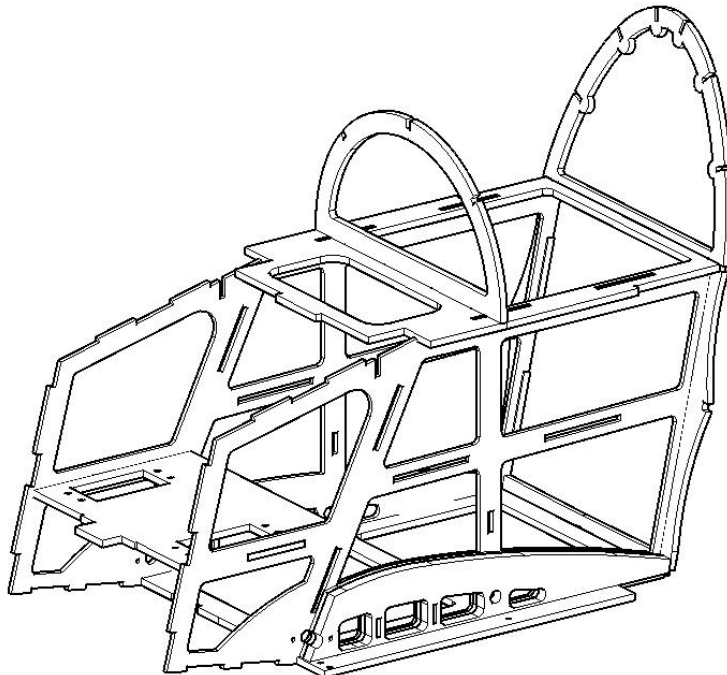
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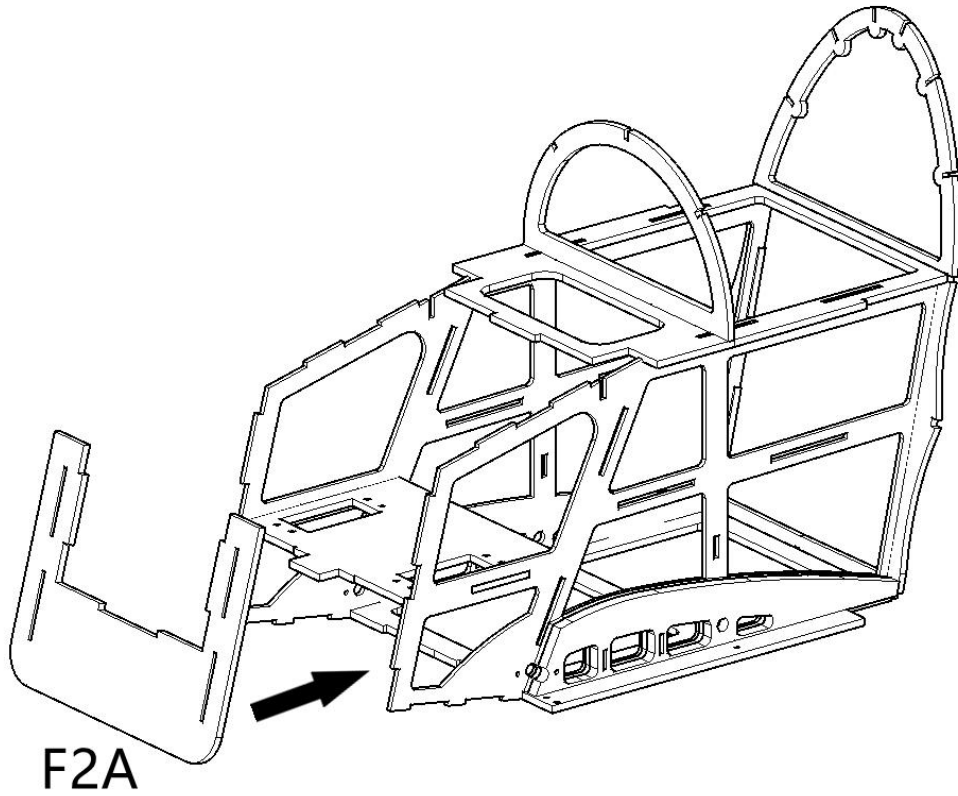
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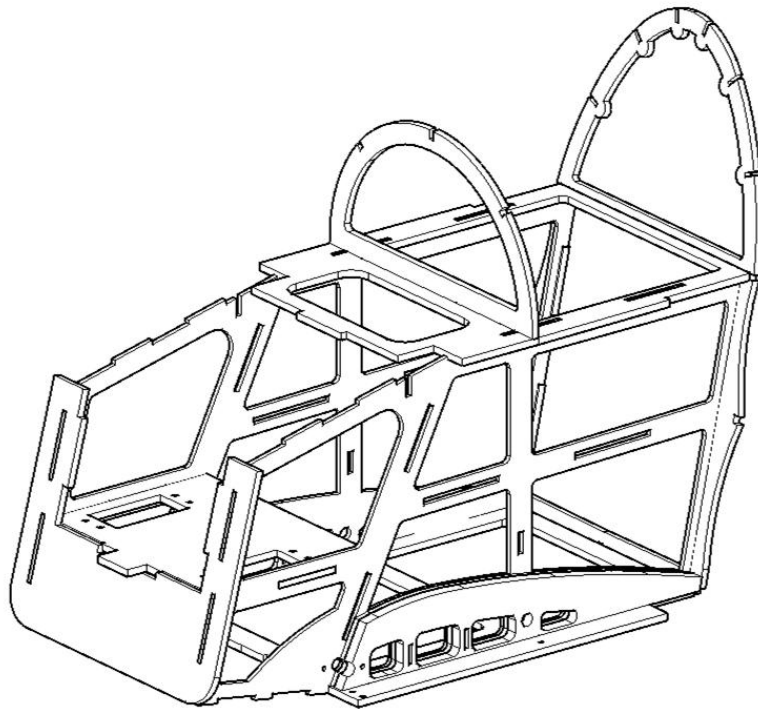
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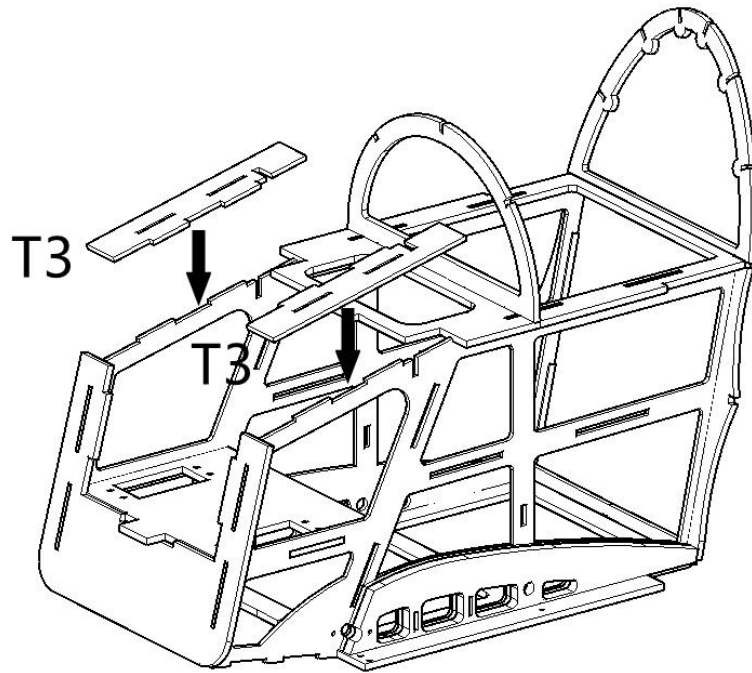
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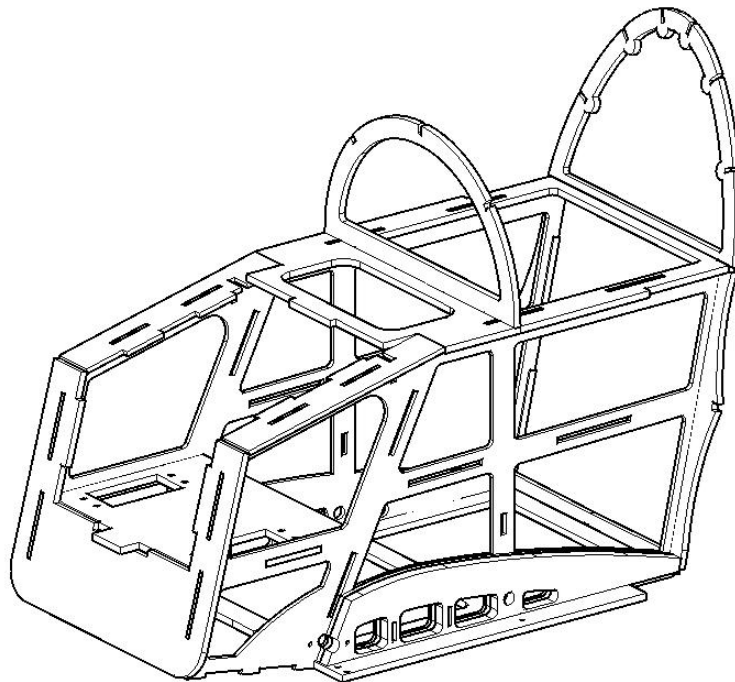
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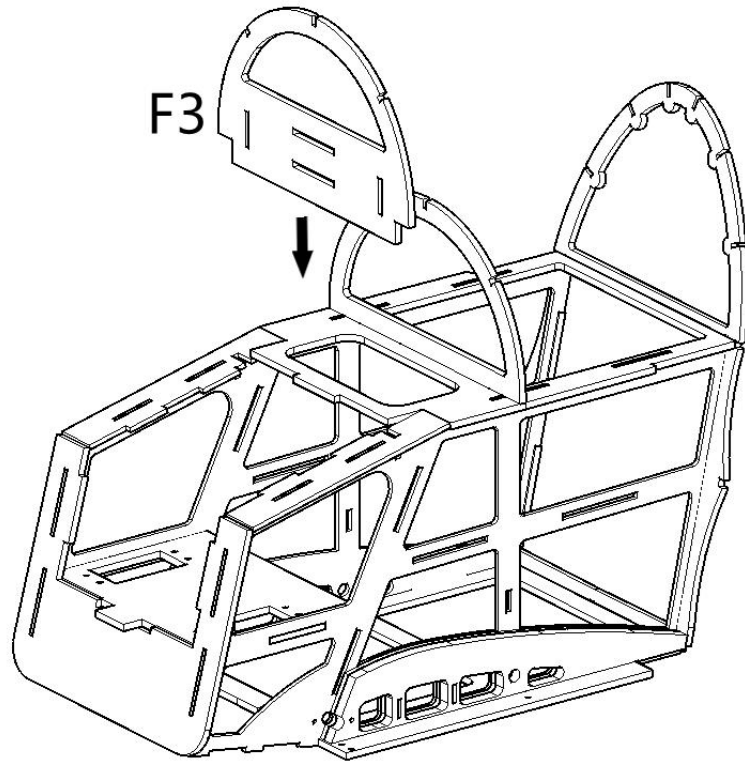
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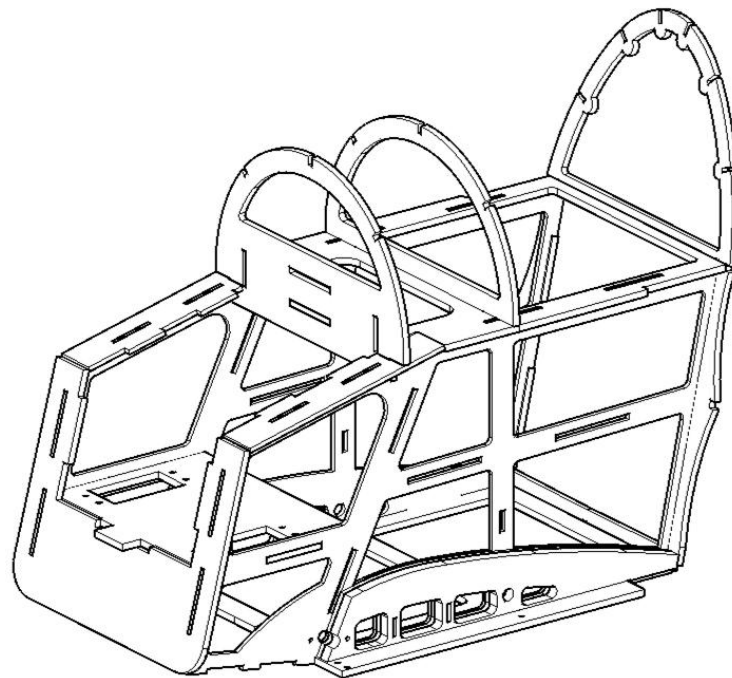
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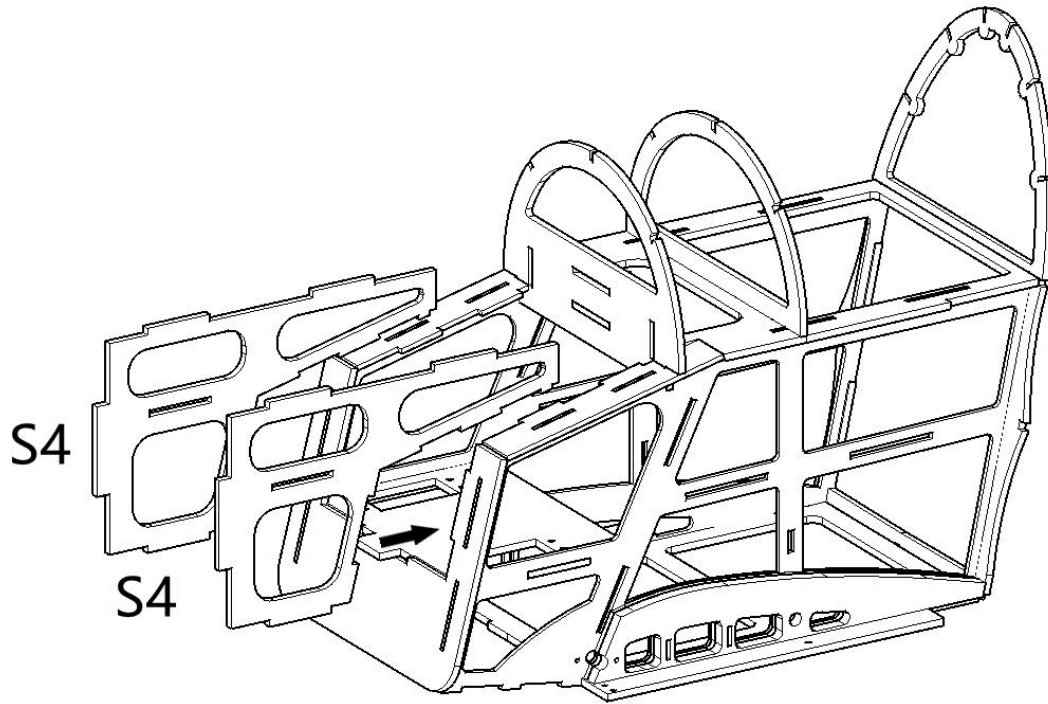
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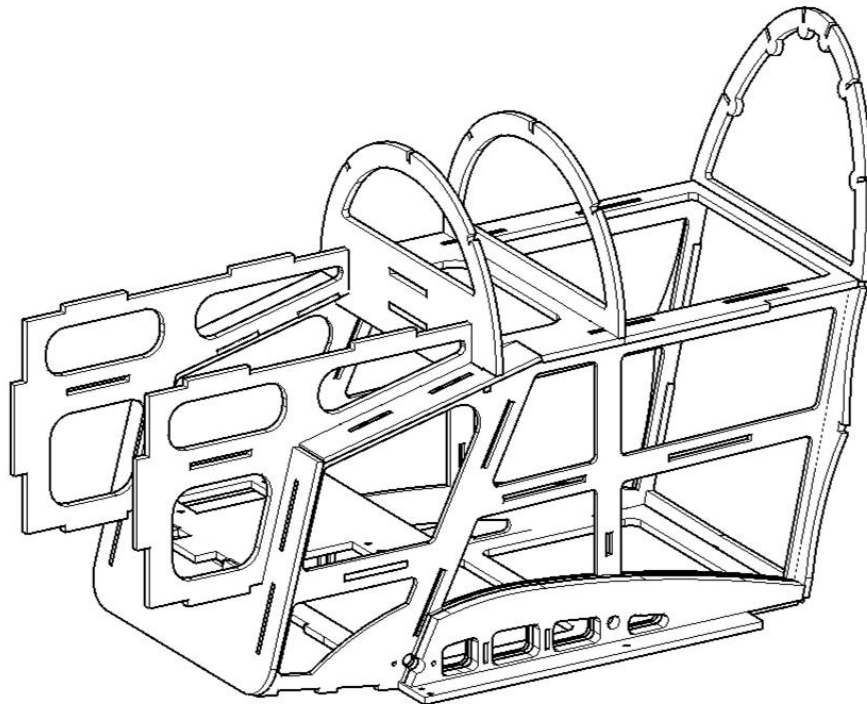
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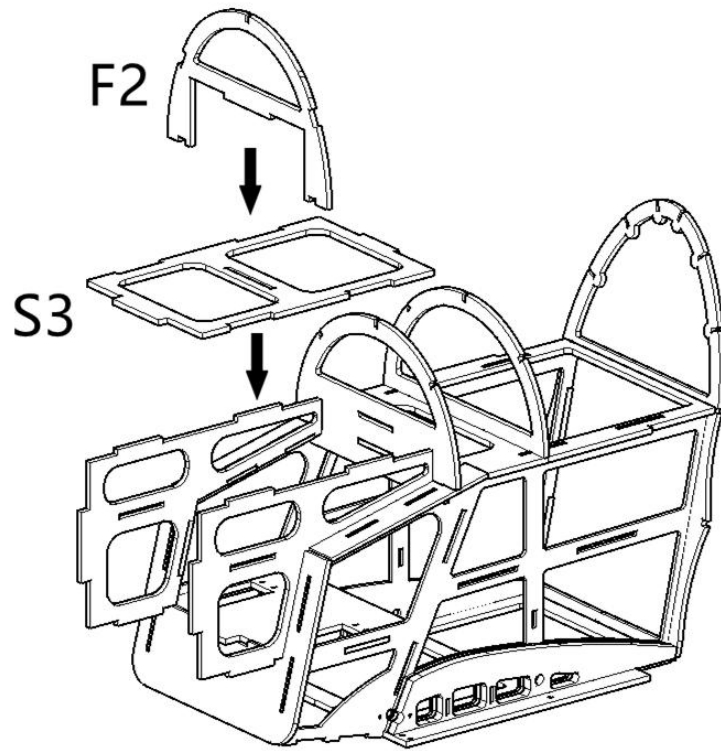
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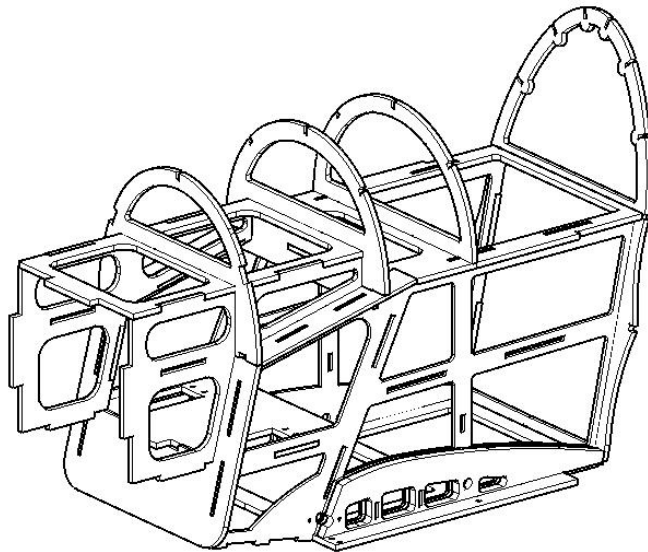
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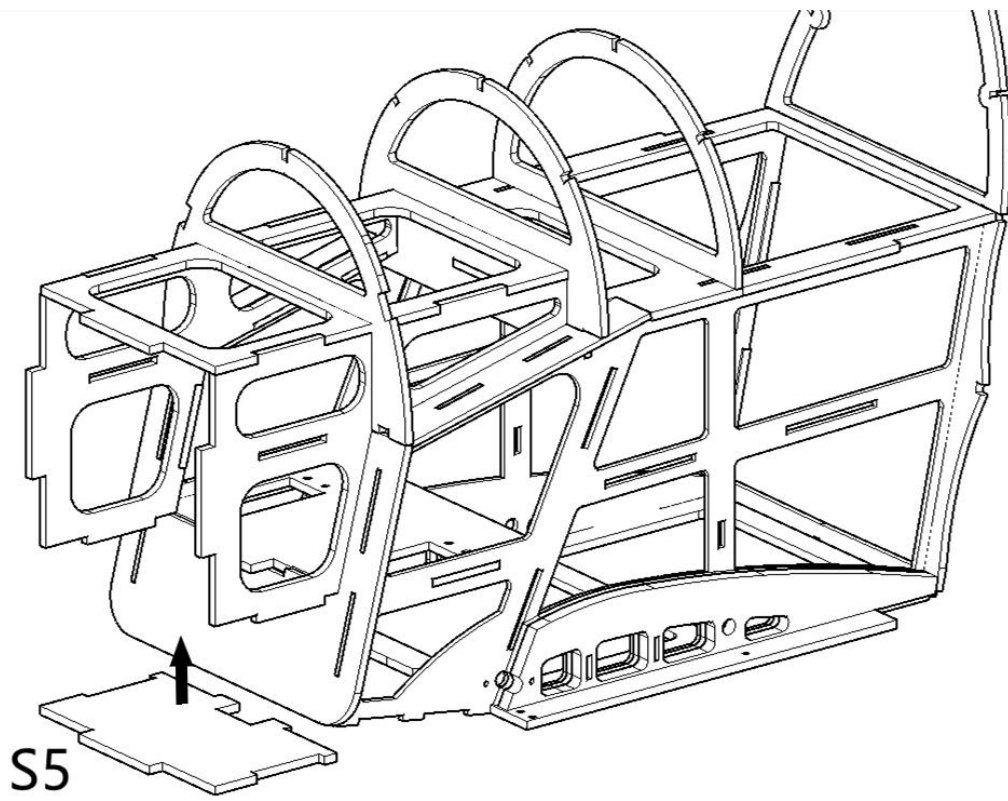
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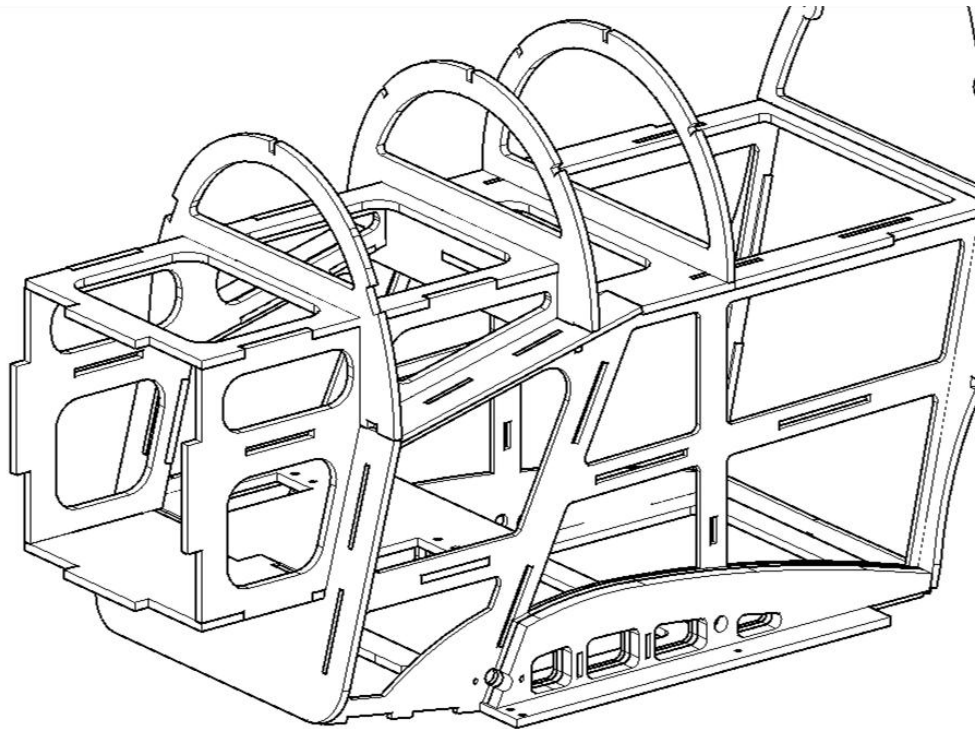
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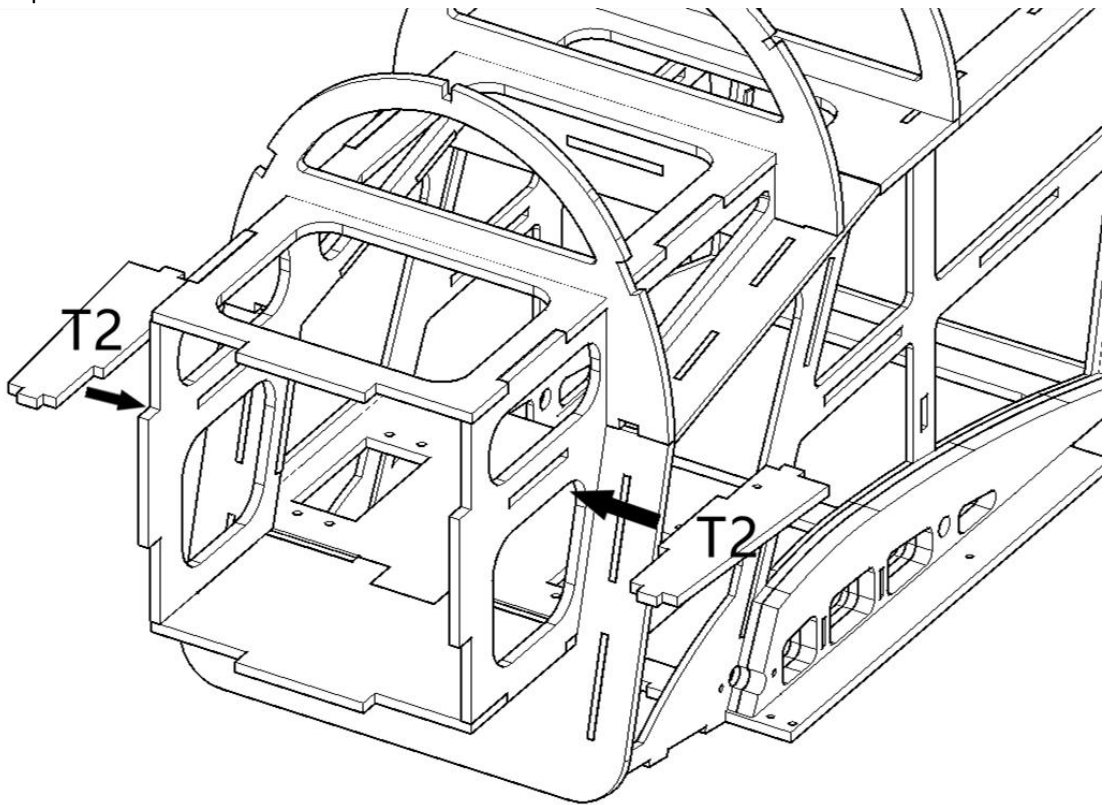
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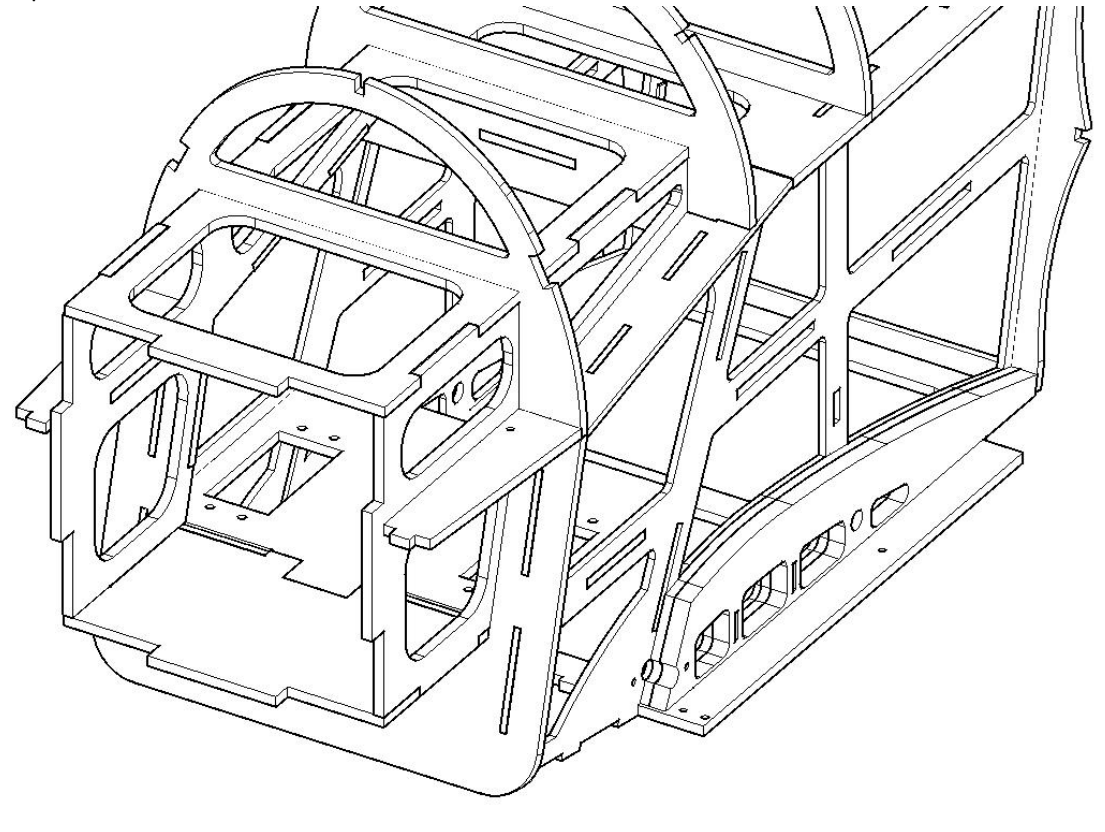
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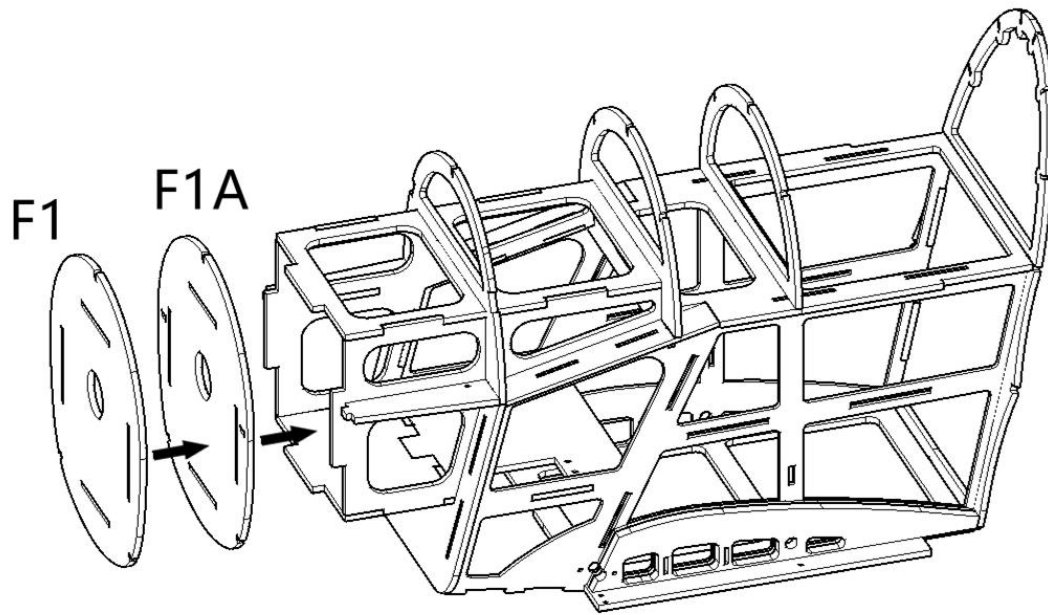
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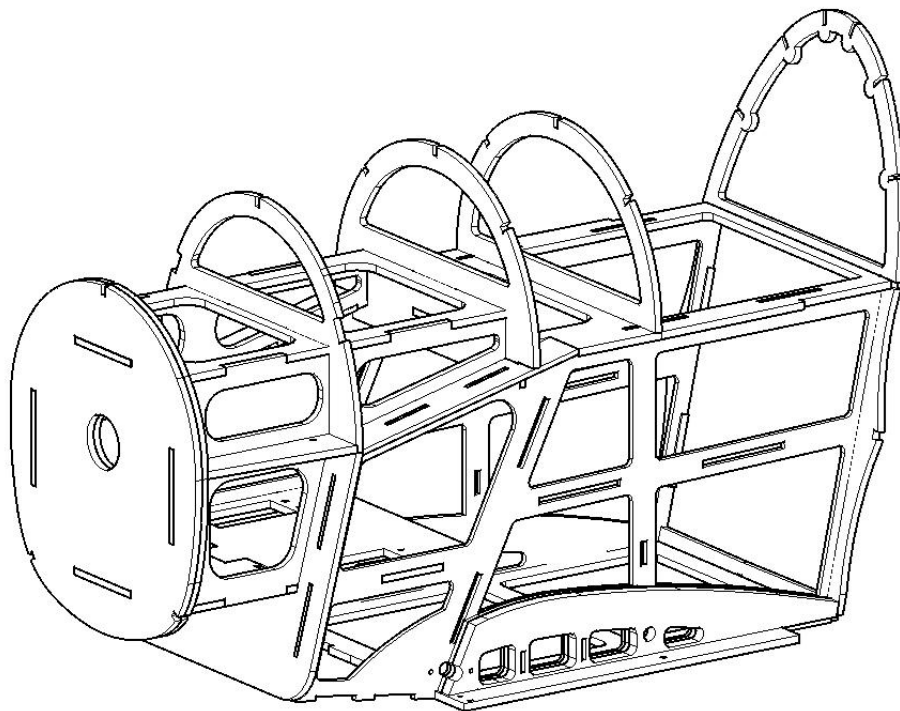
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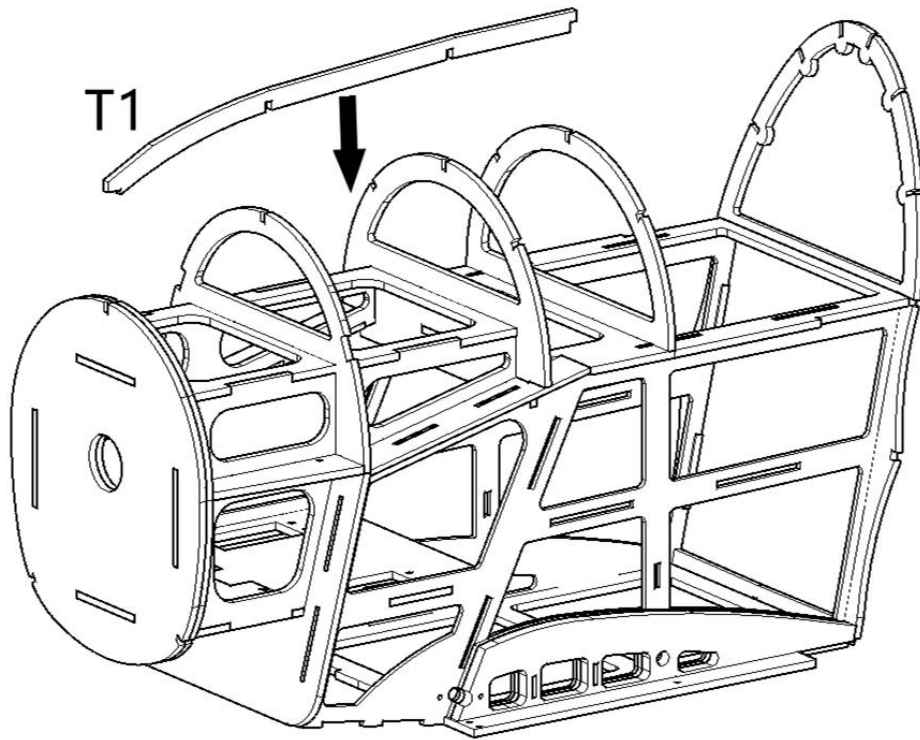
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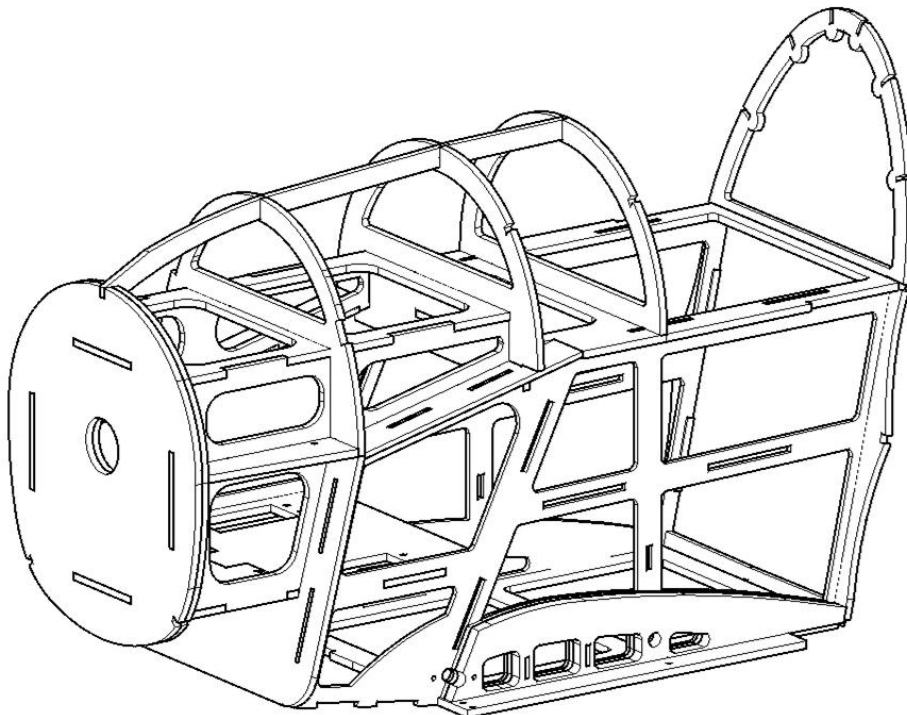
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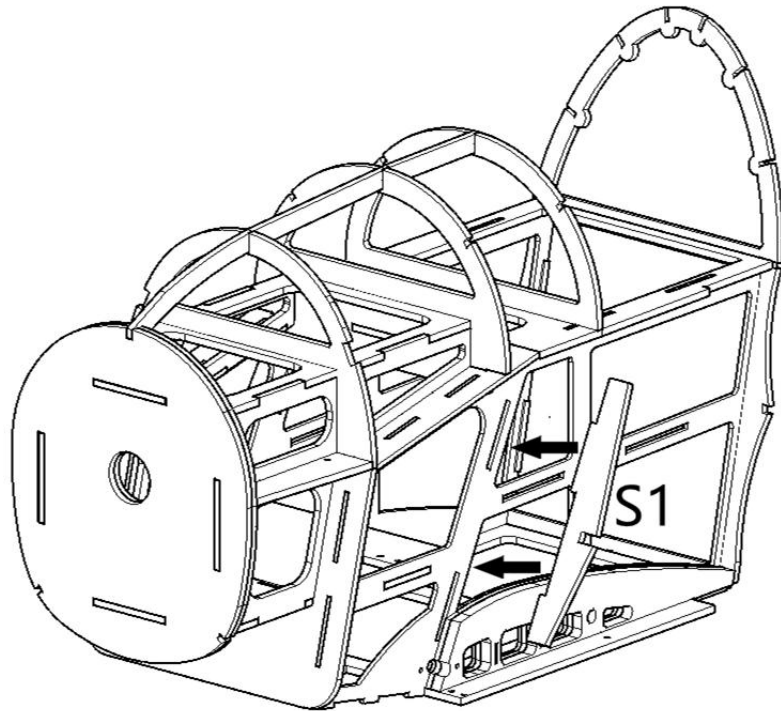
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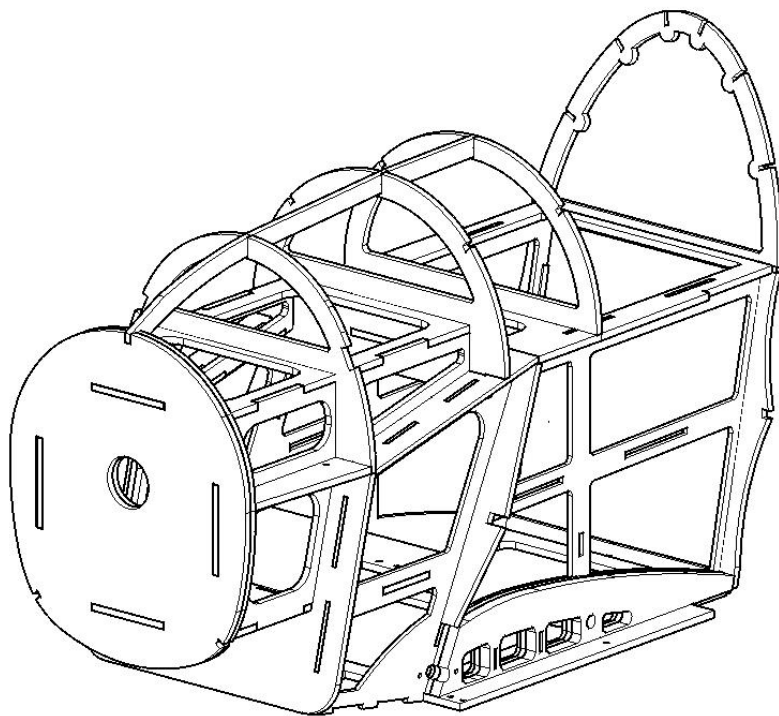
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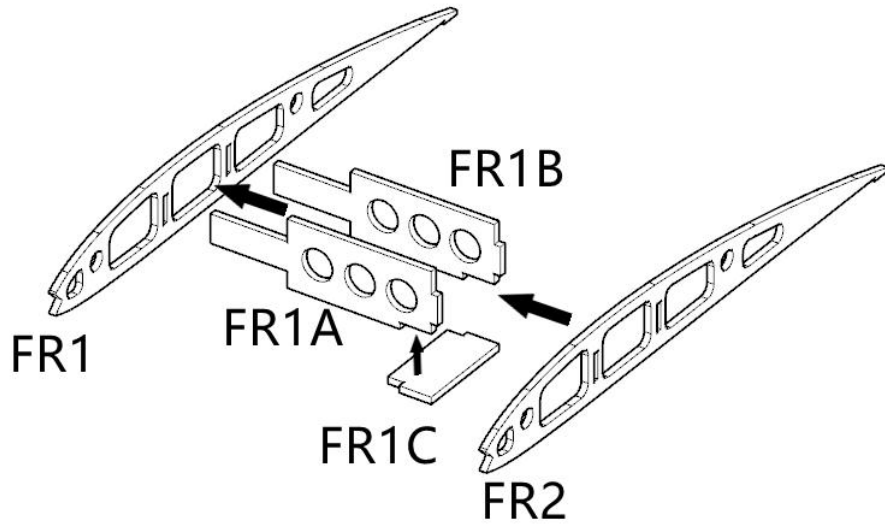
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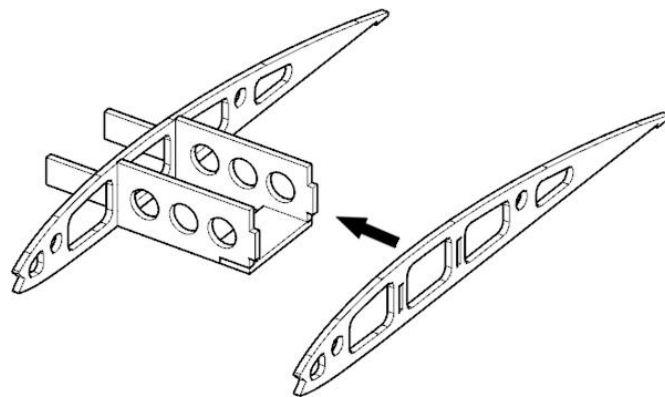
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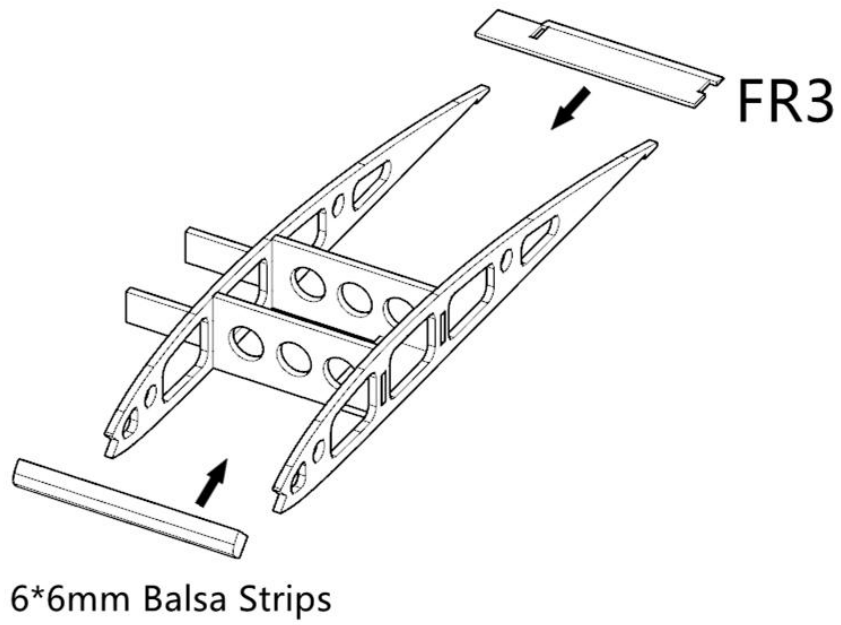
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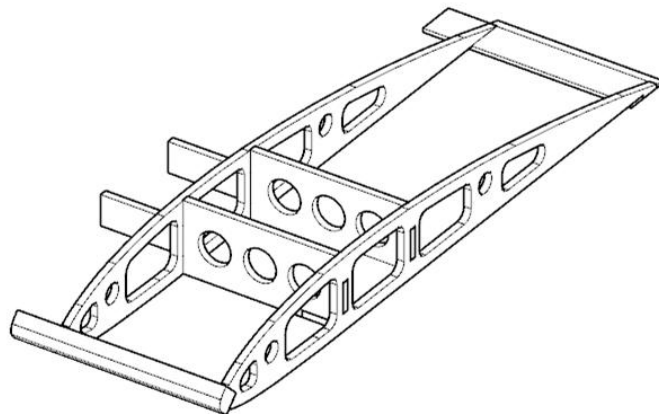
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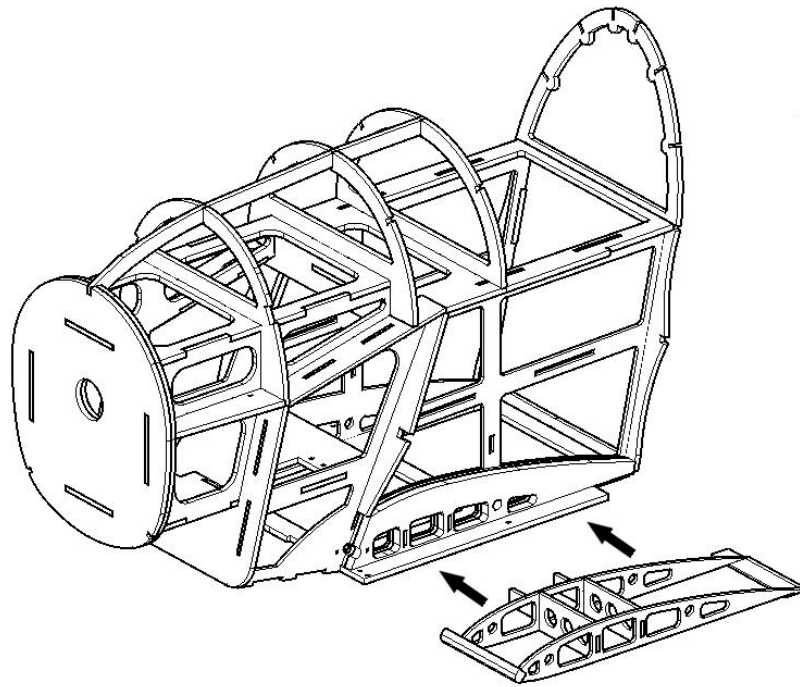
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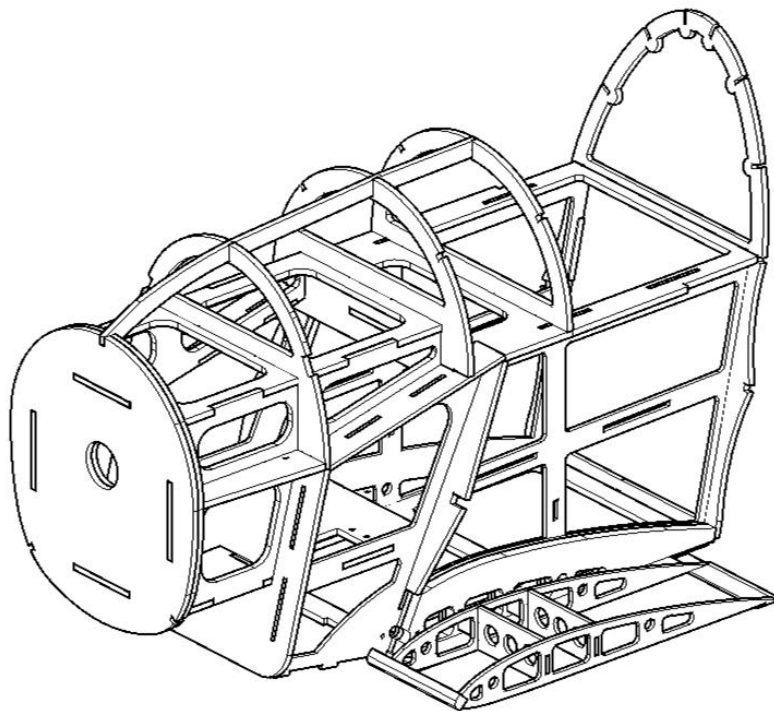
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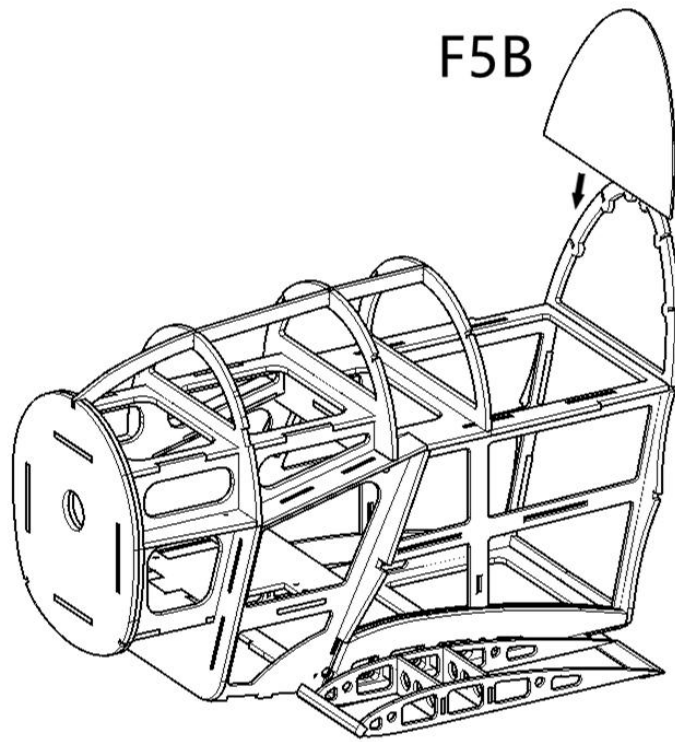
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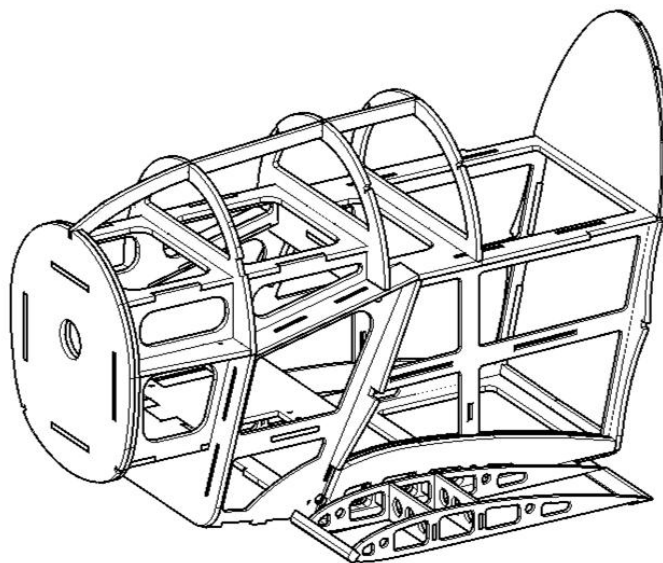
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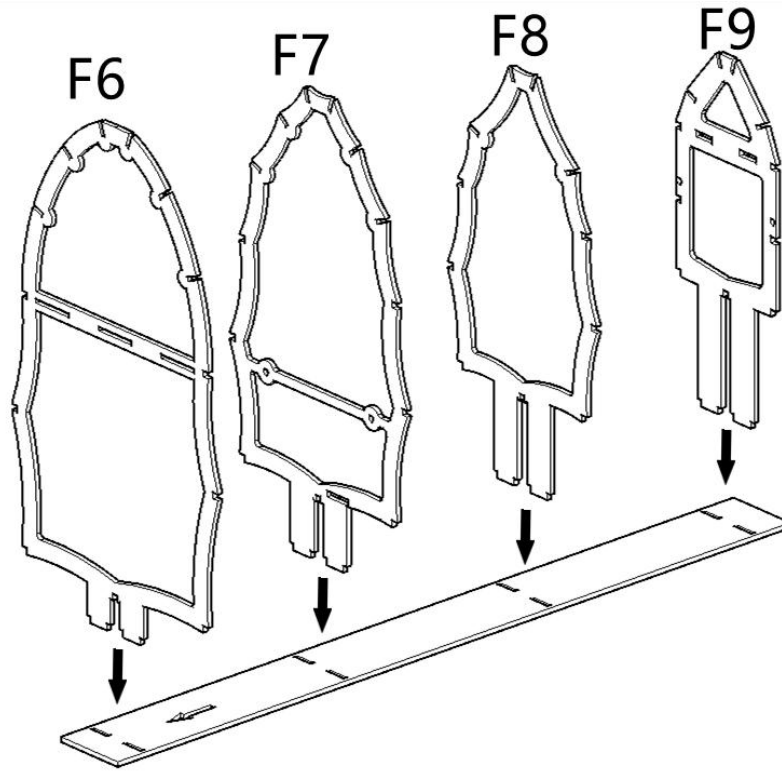
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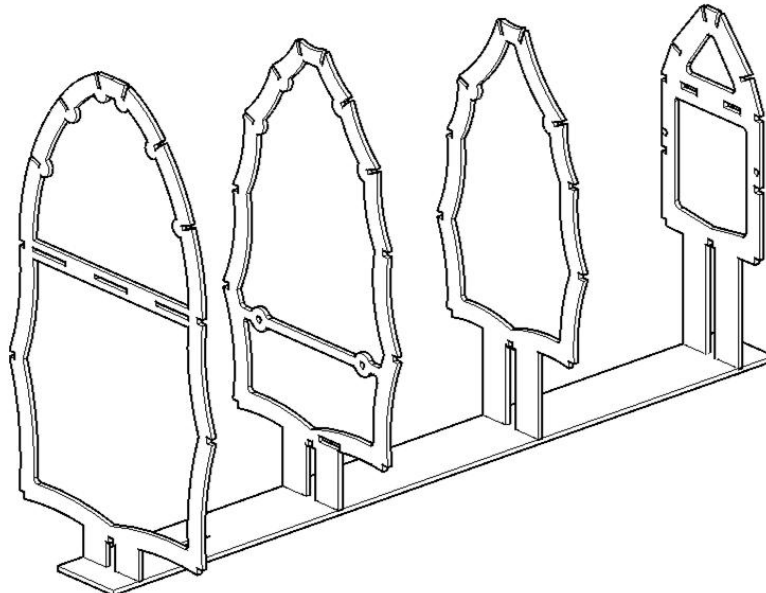
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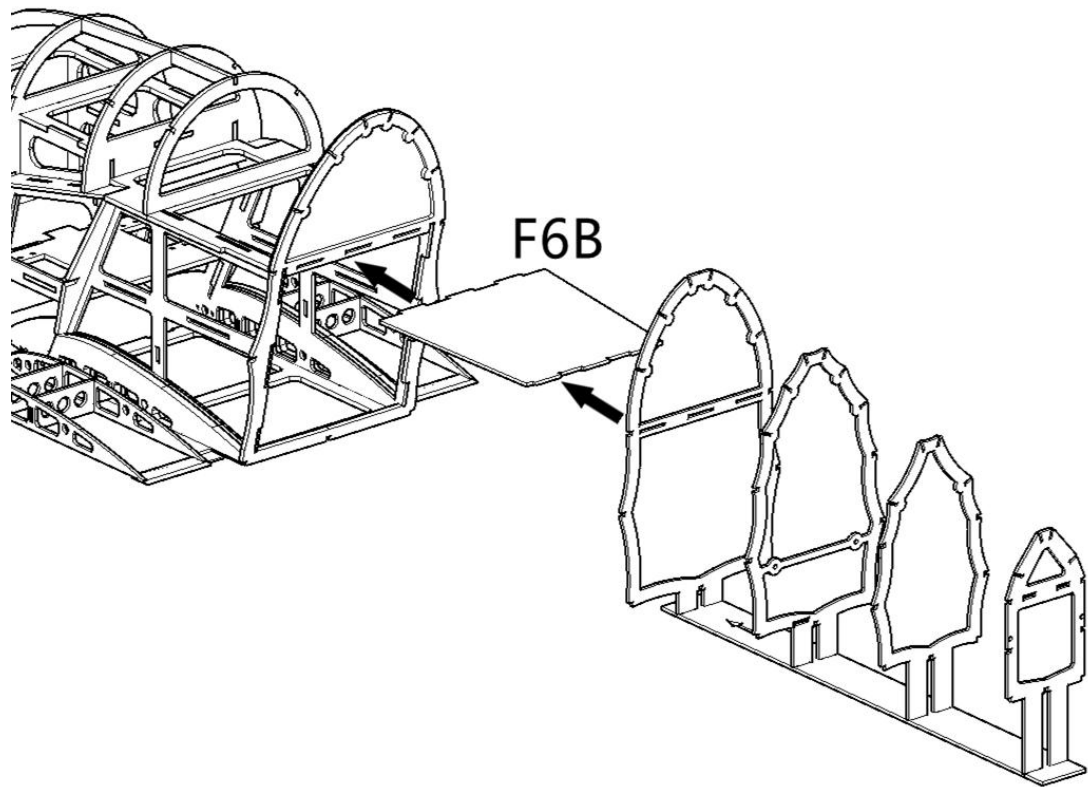
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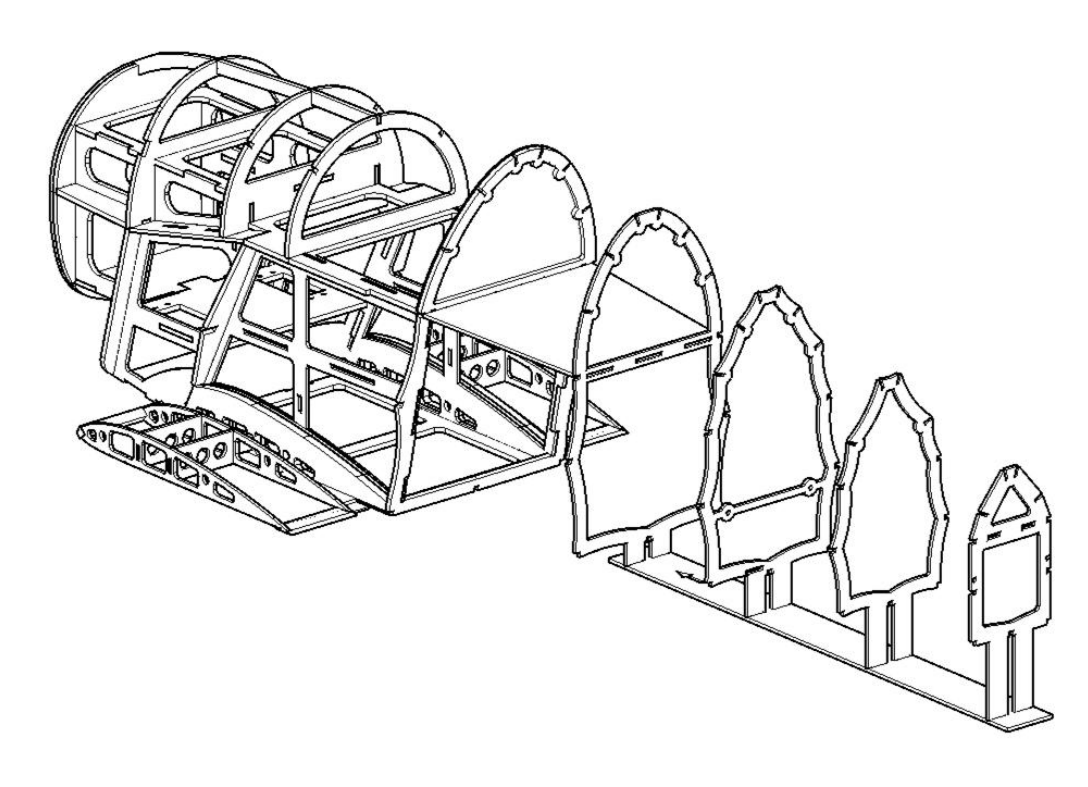
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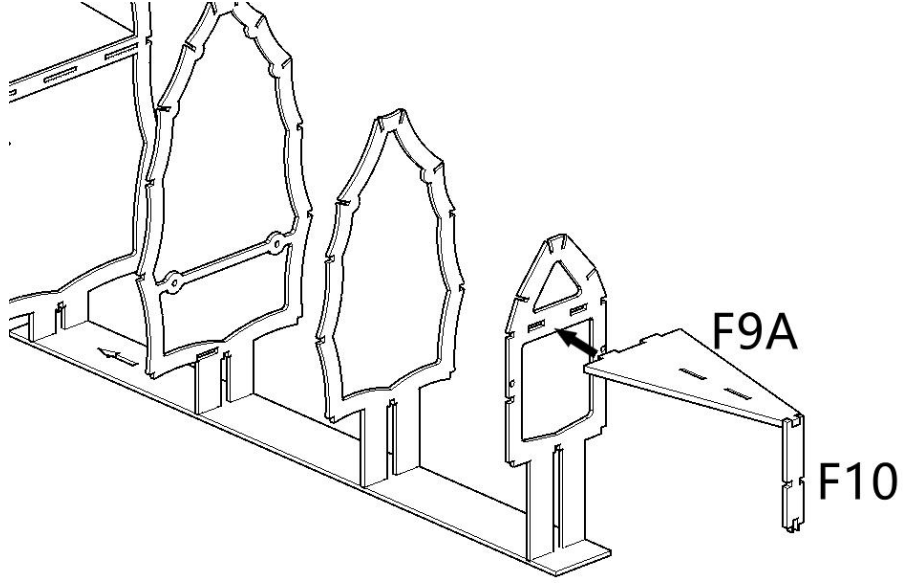
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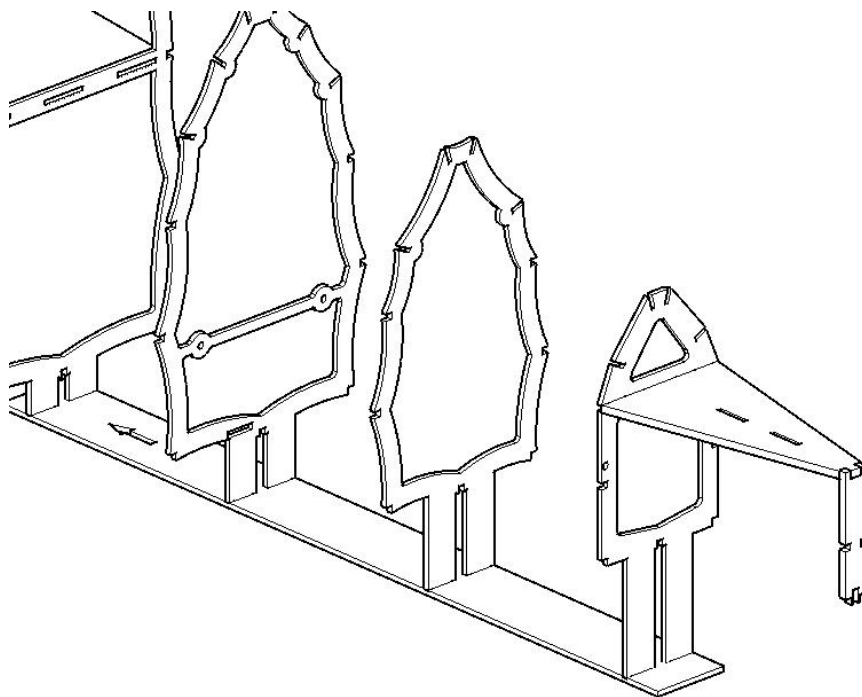
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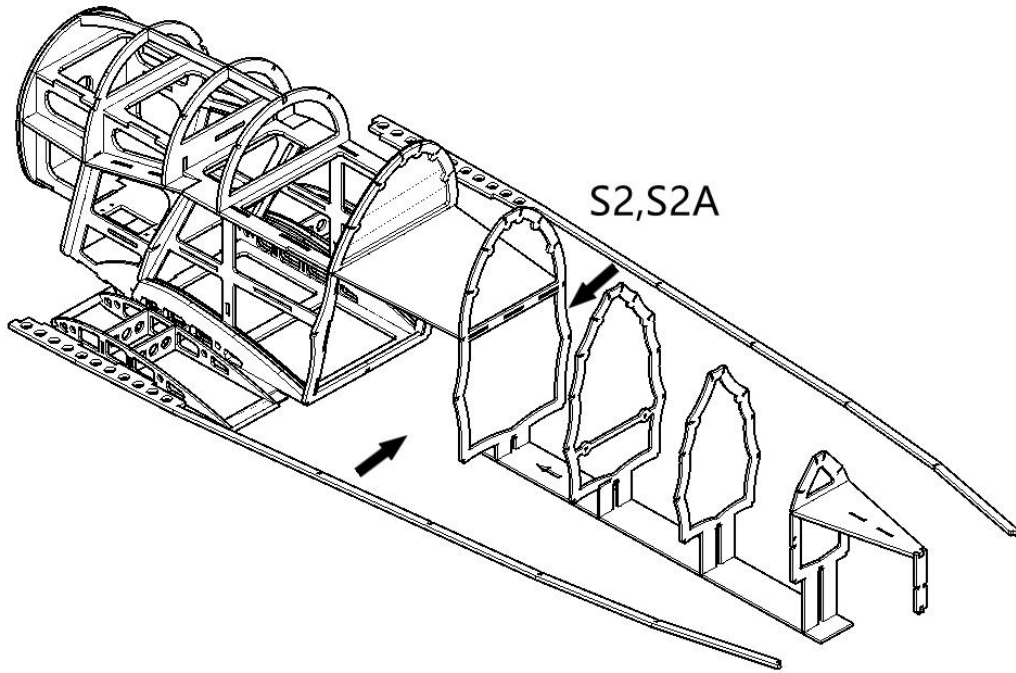
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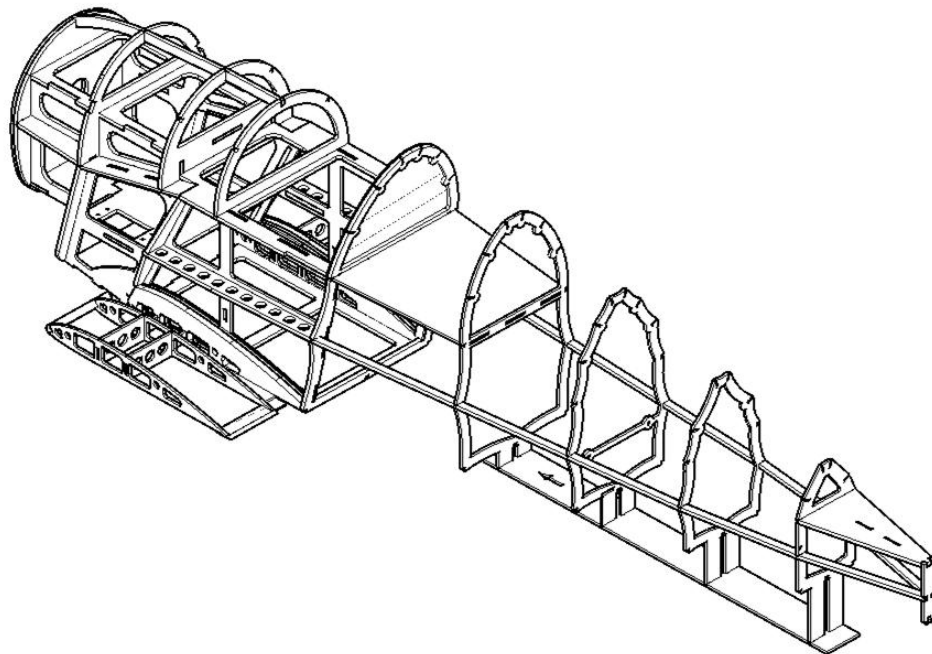
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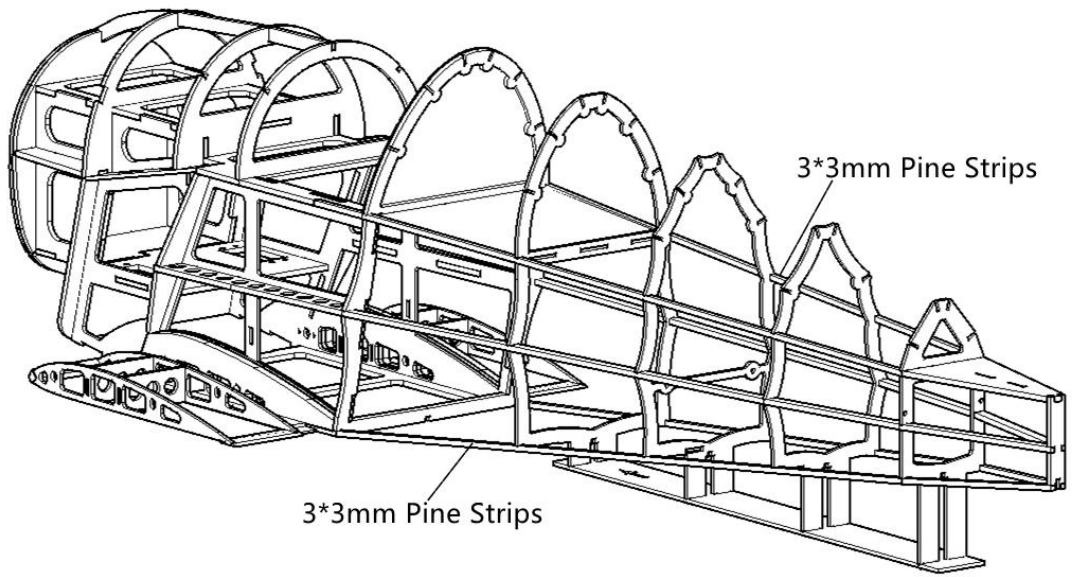
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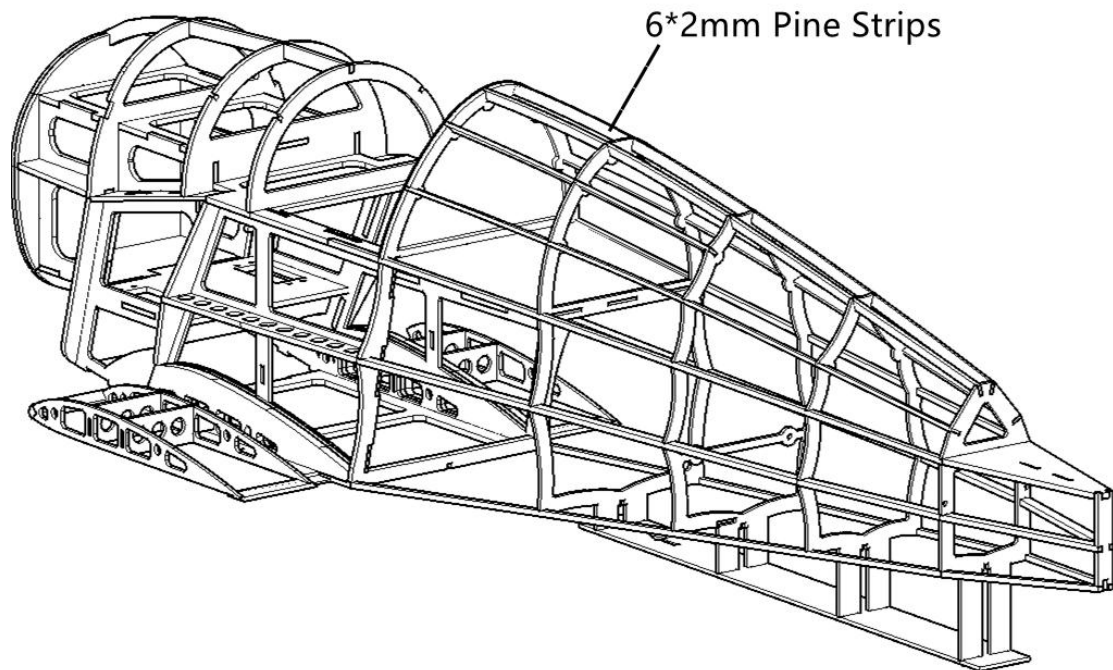
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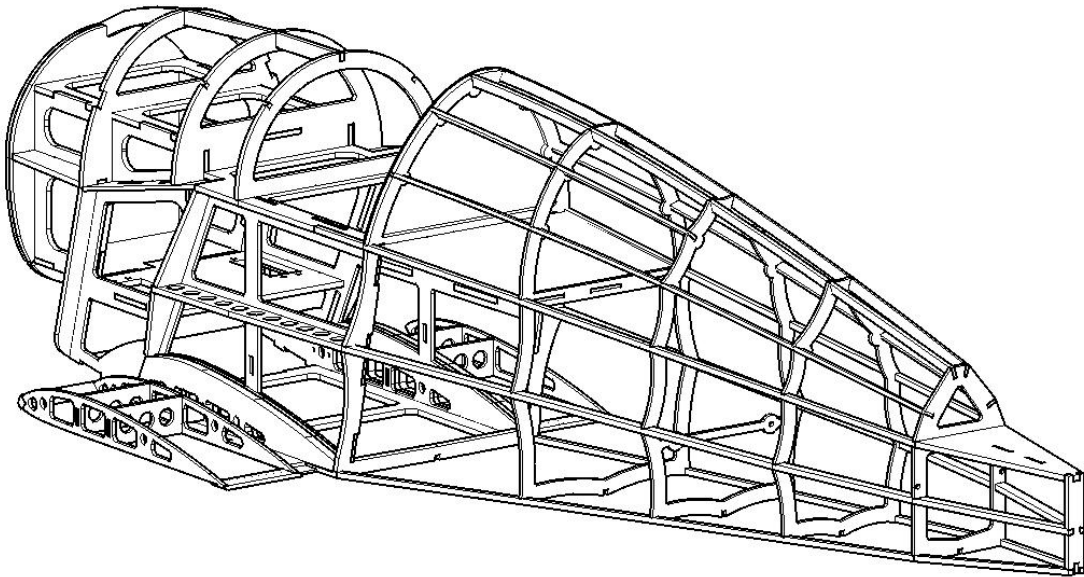
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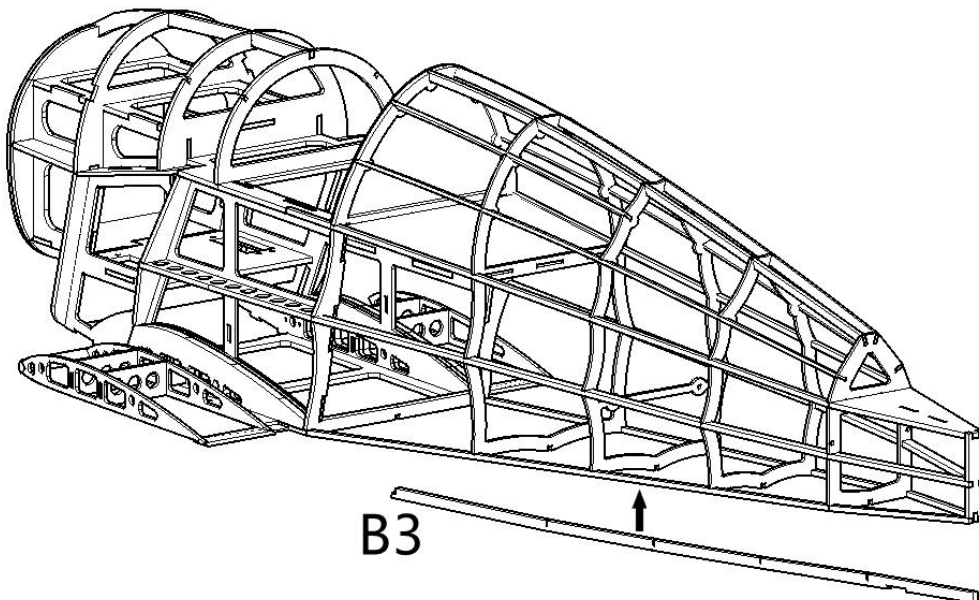
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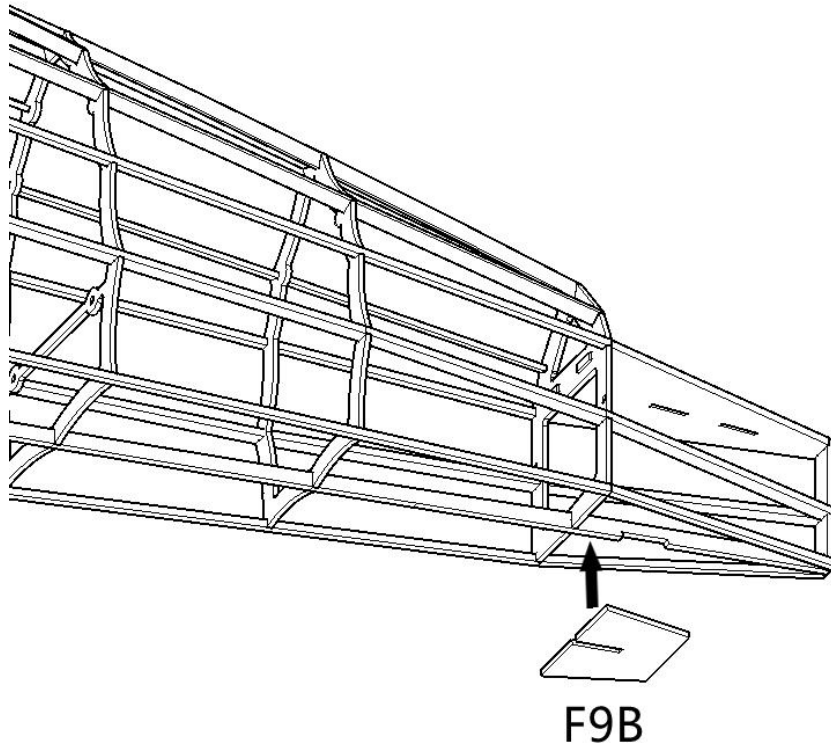
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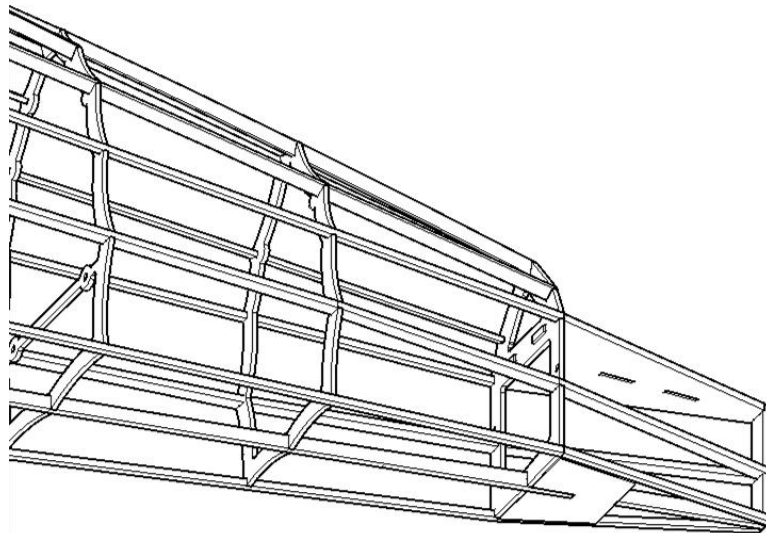
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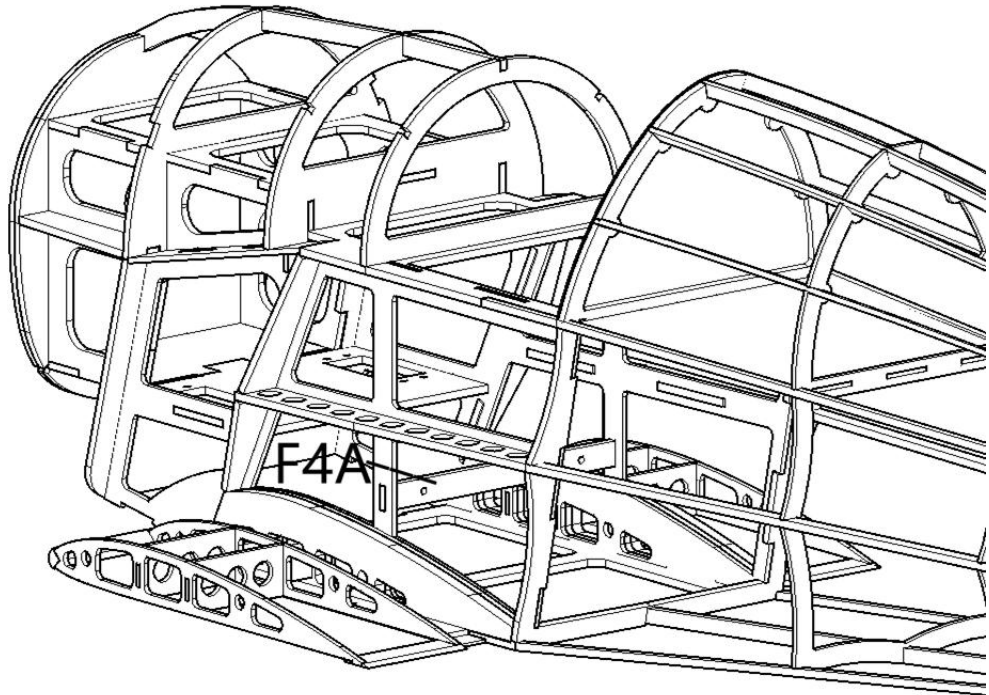
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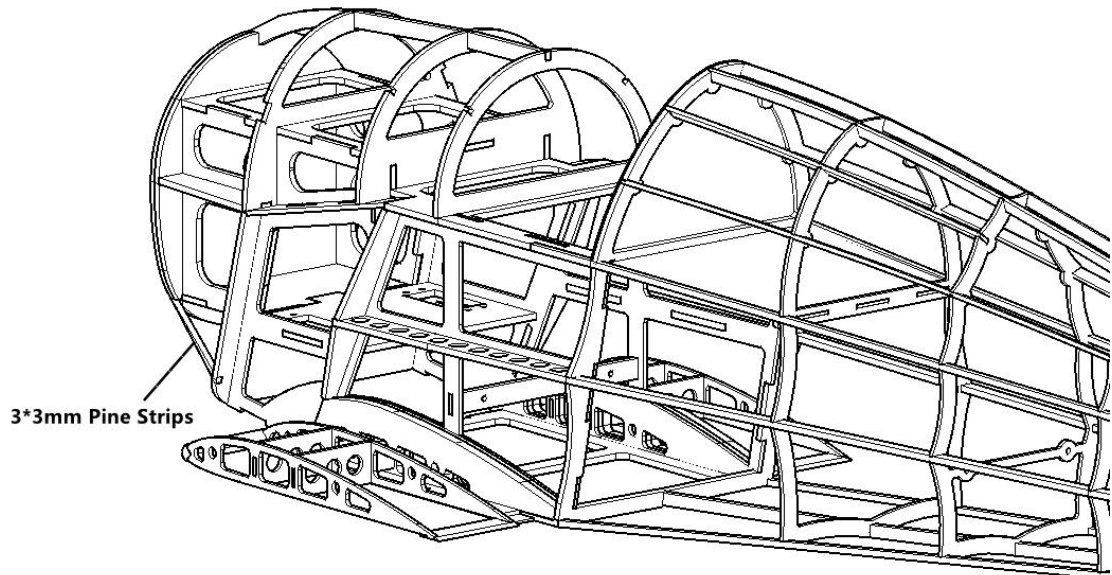
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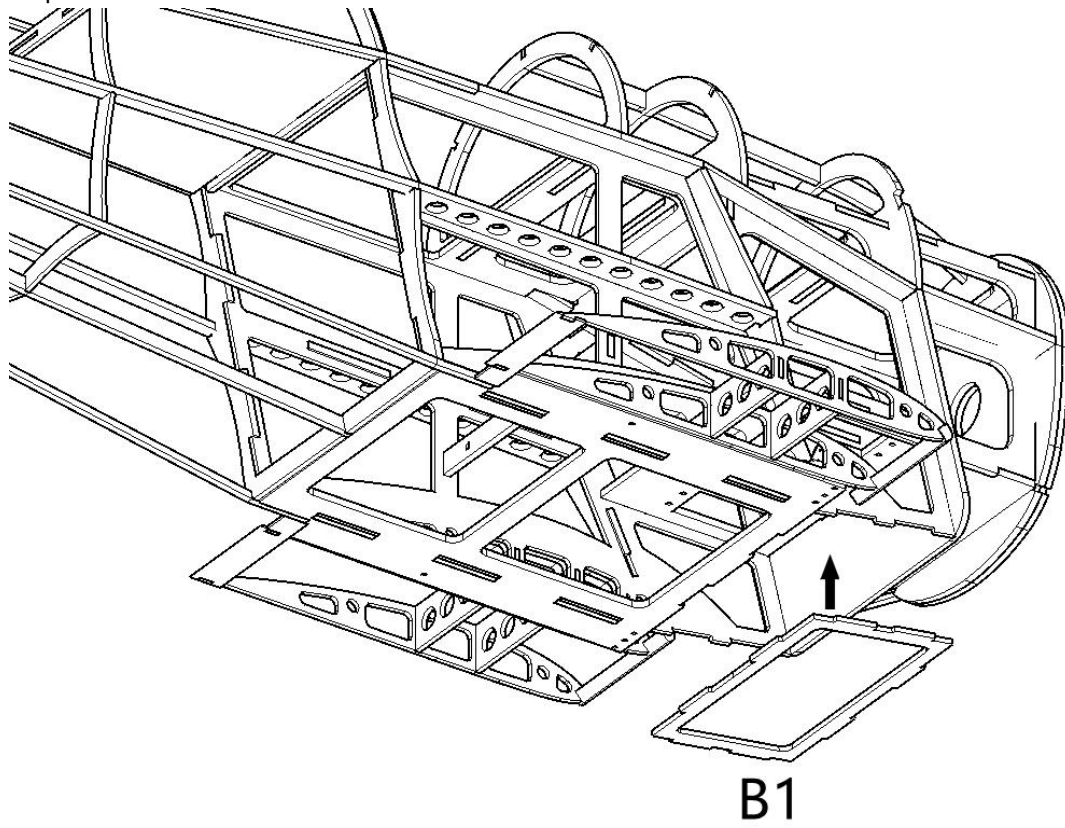
Step49



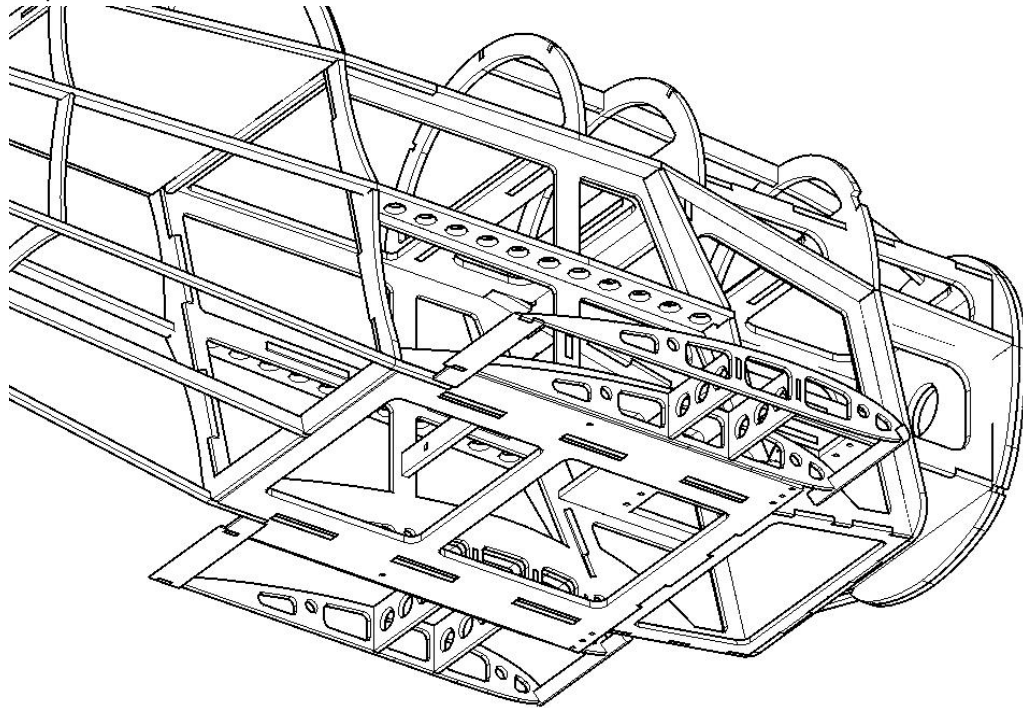
Step50



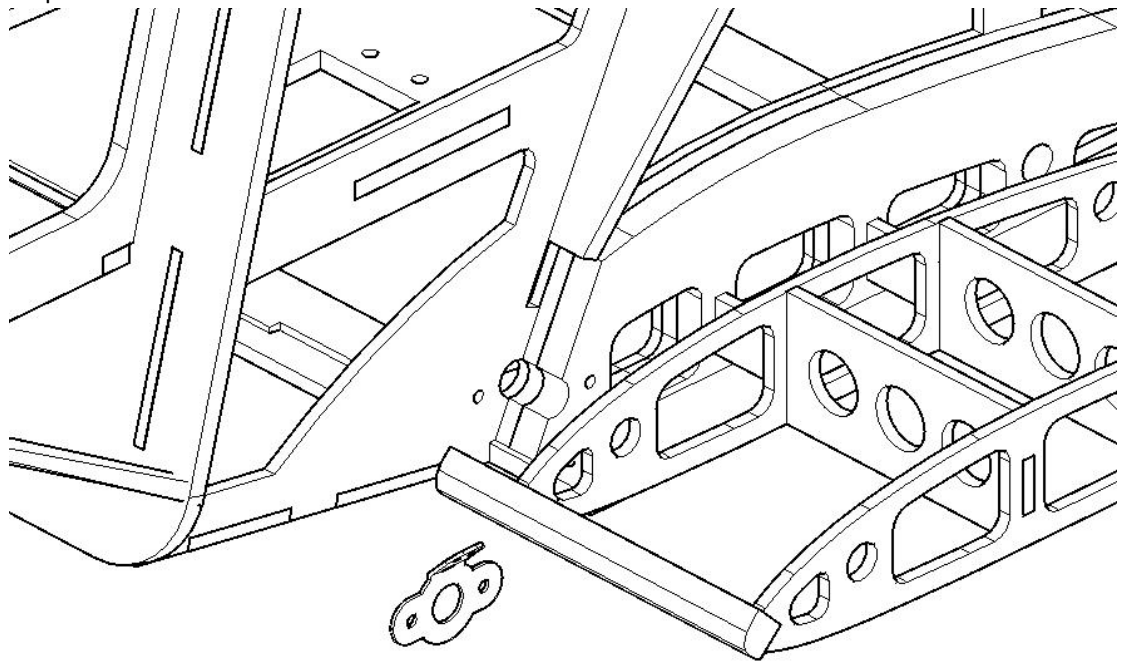
Step51



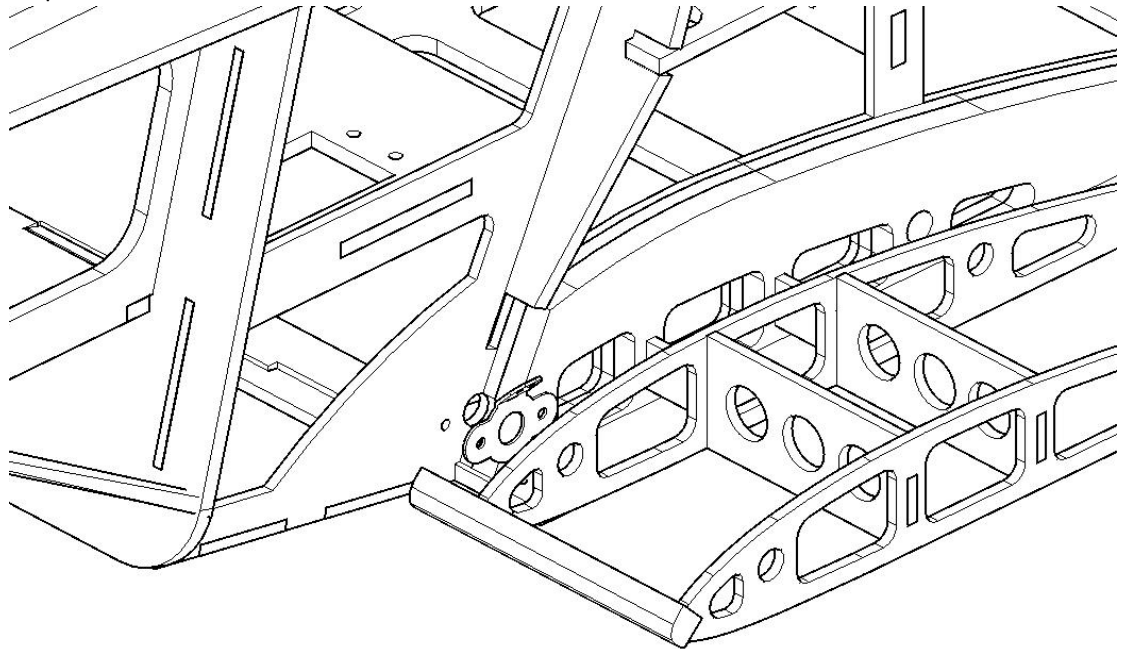
Step52



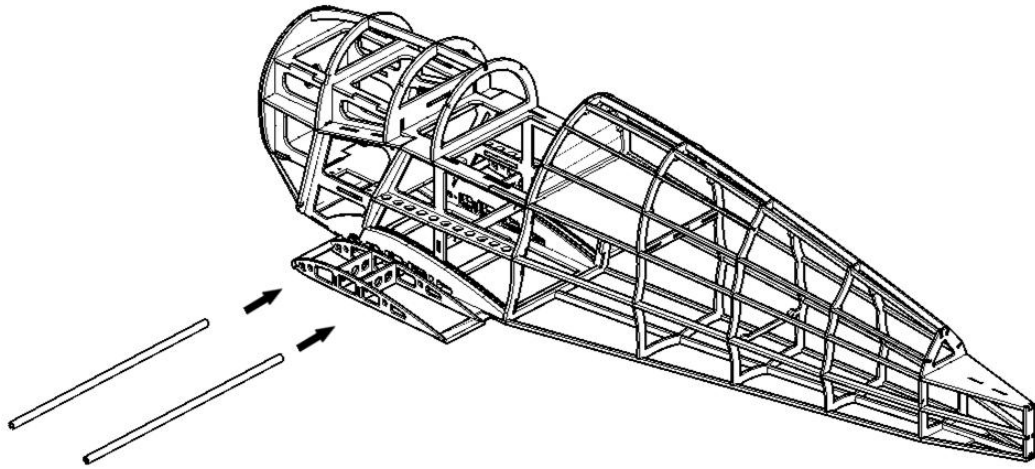
Step53



Step54

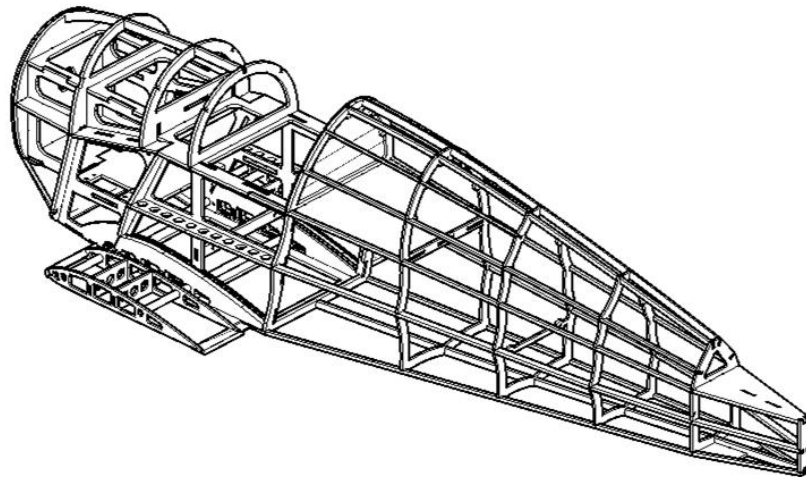


Step55

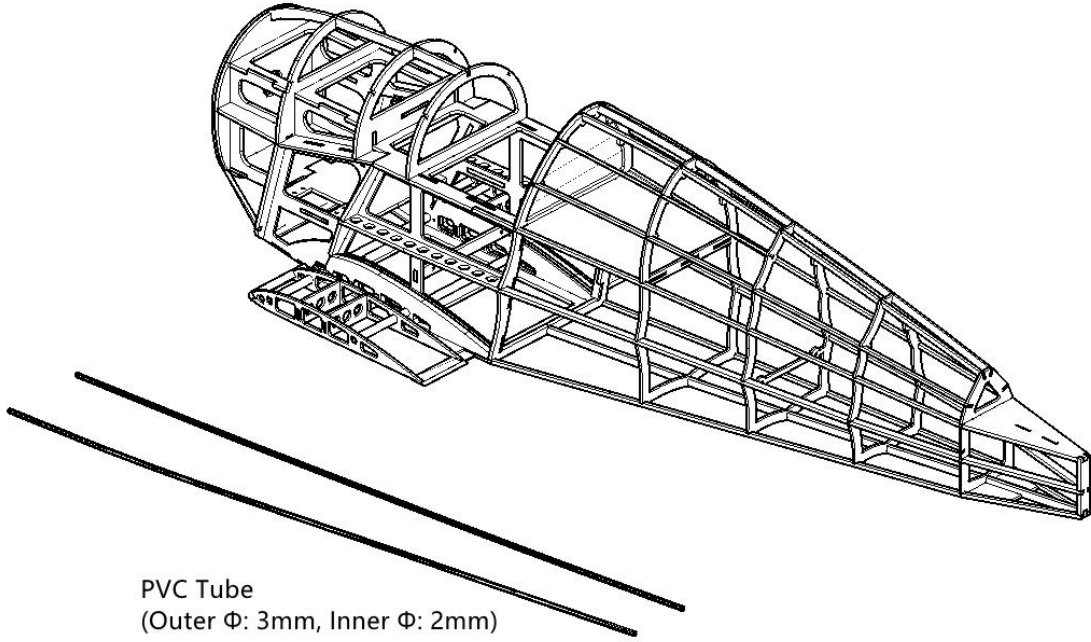


Aluminum Tube
(Outer Φ : 6mm, Inner Φ : 4mm)

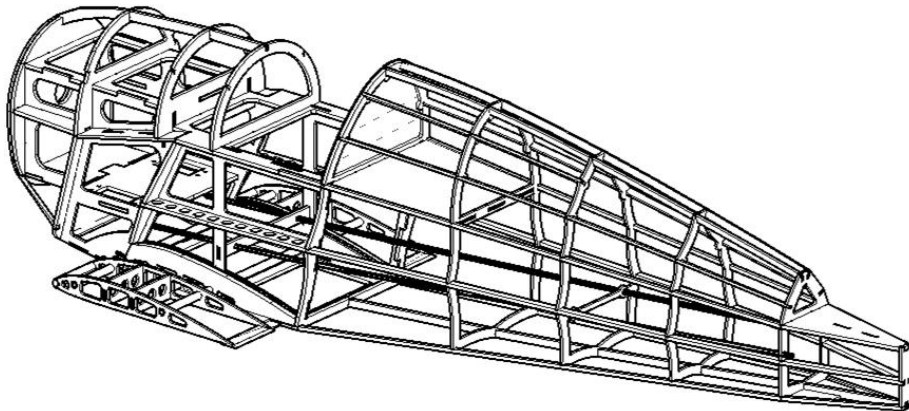
Step56



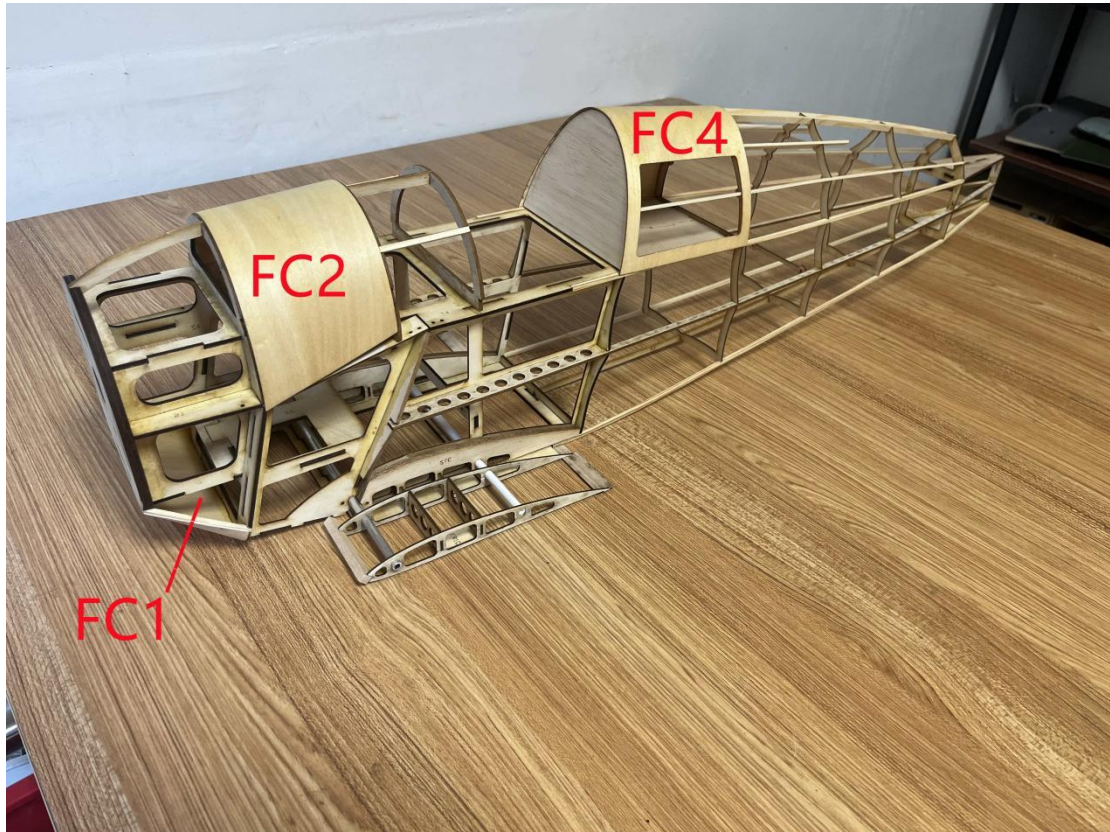
Step57



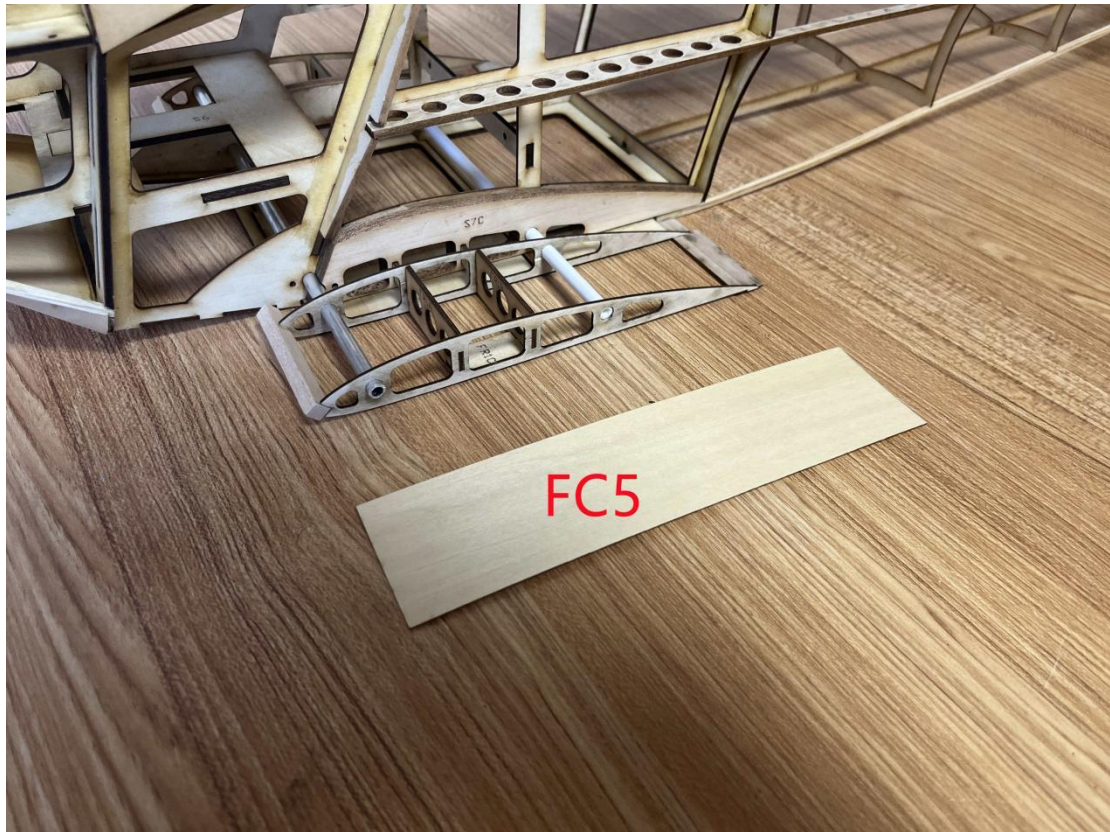
Step58



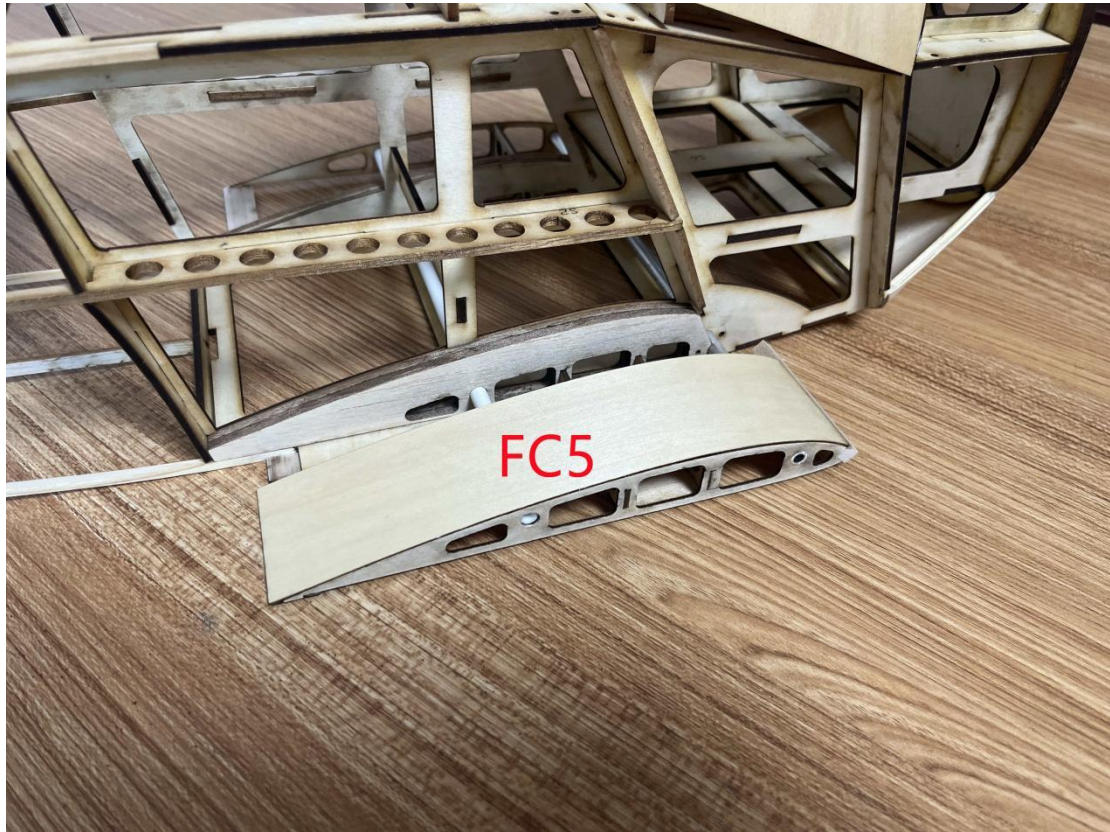
Step59



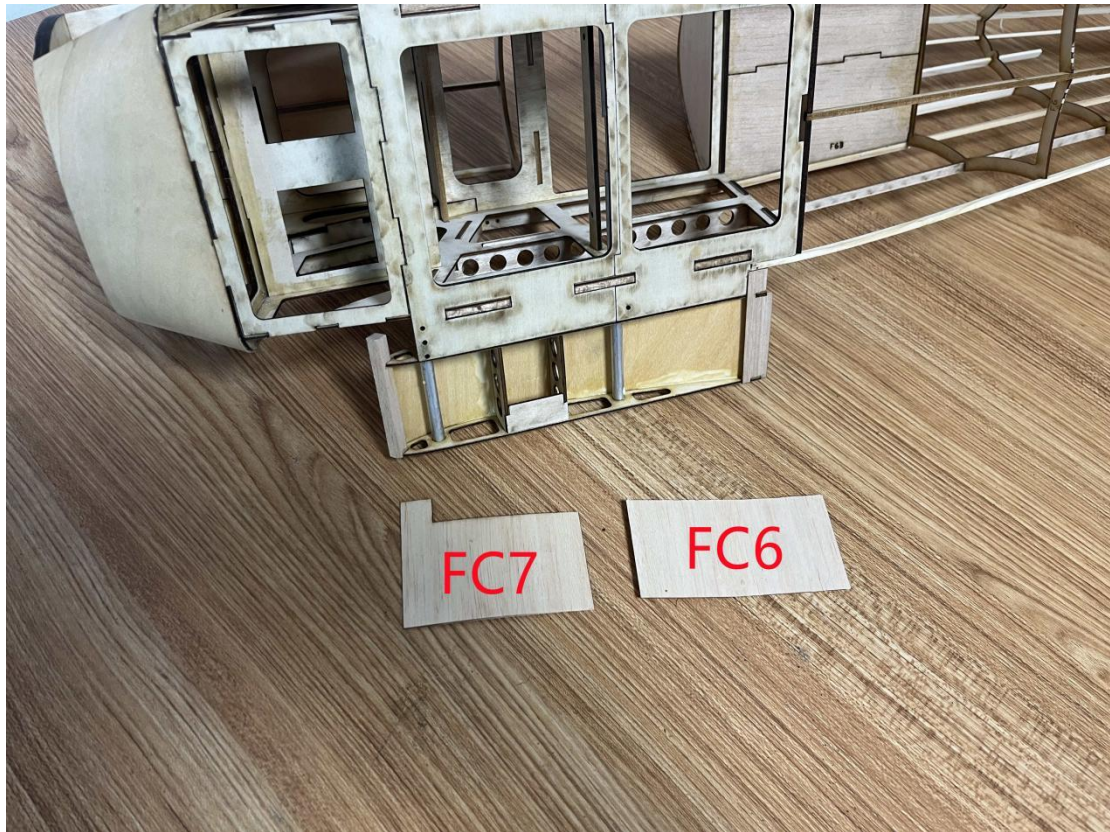
Step60



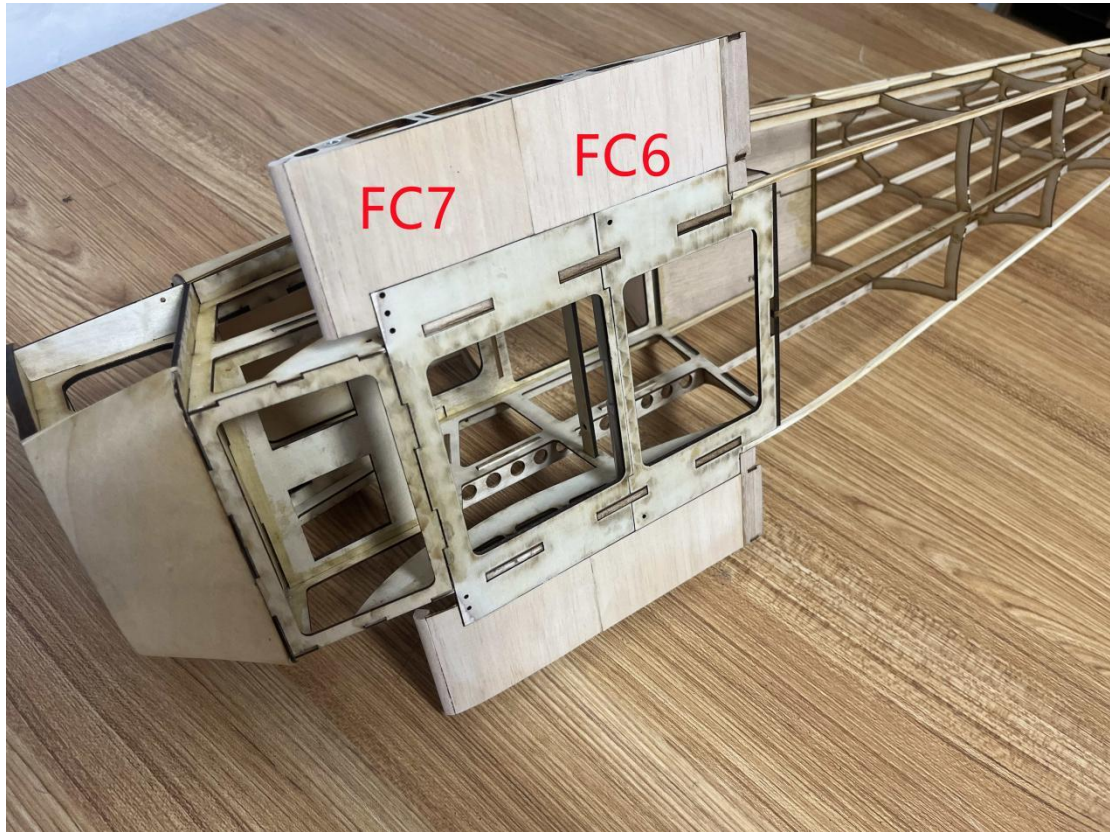
Step61



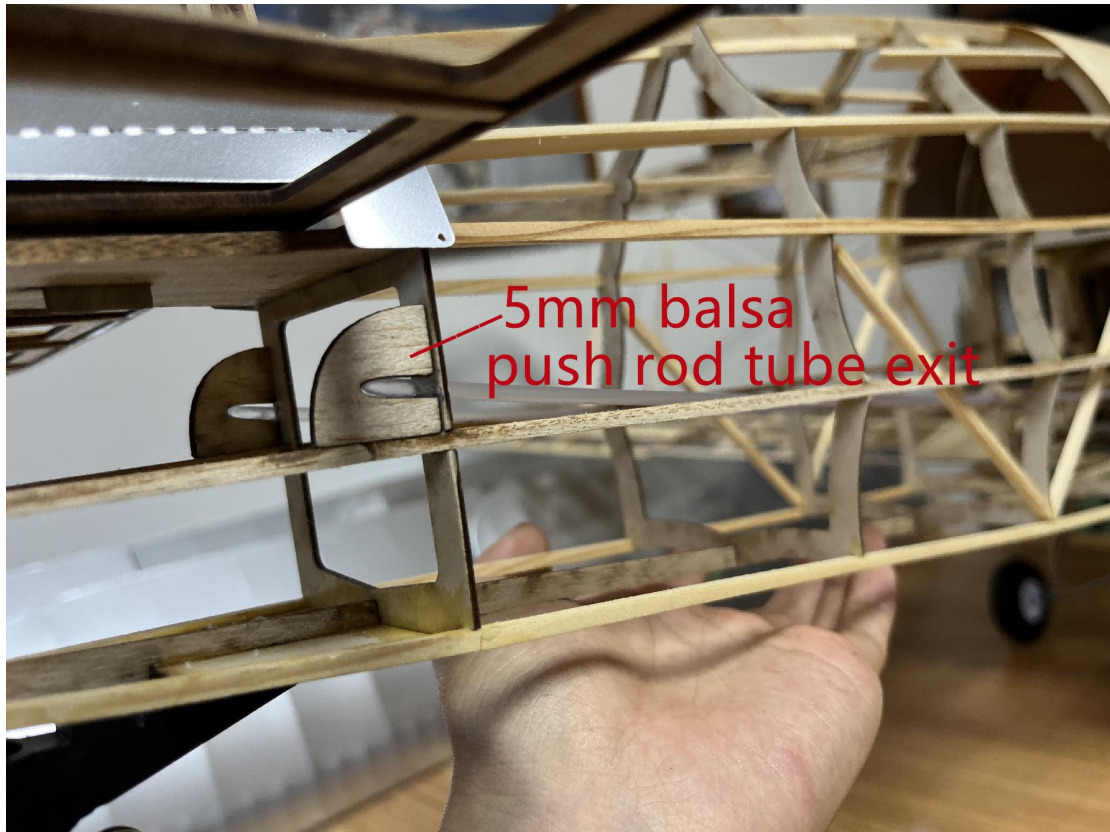
Step62



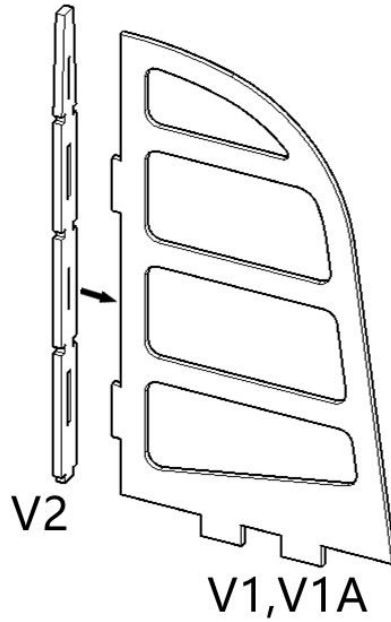
Step63



Step64

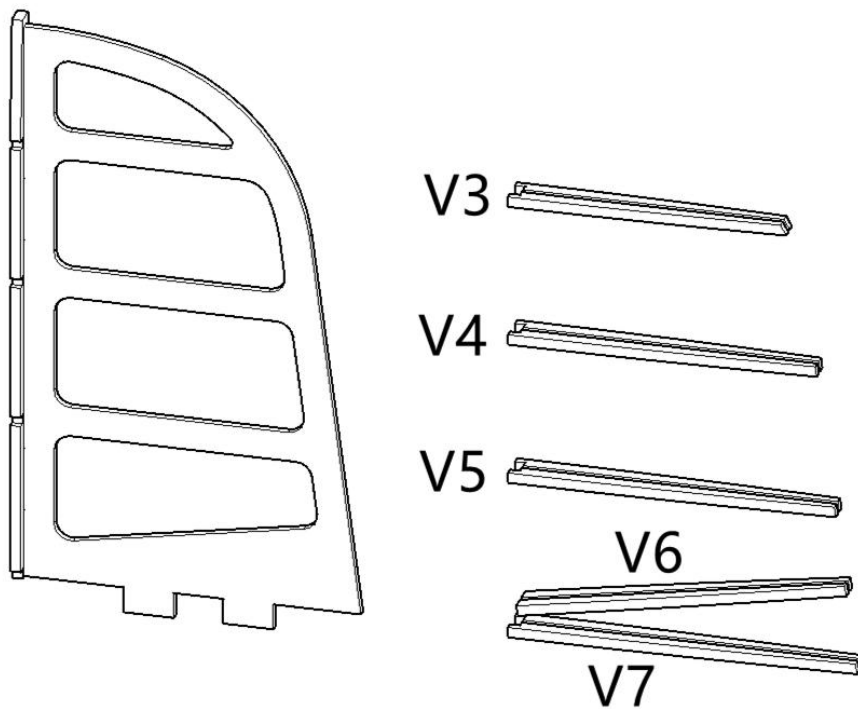


2.ASSEMBLY-Tails

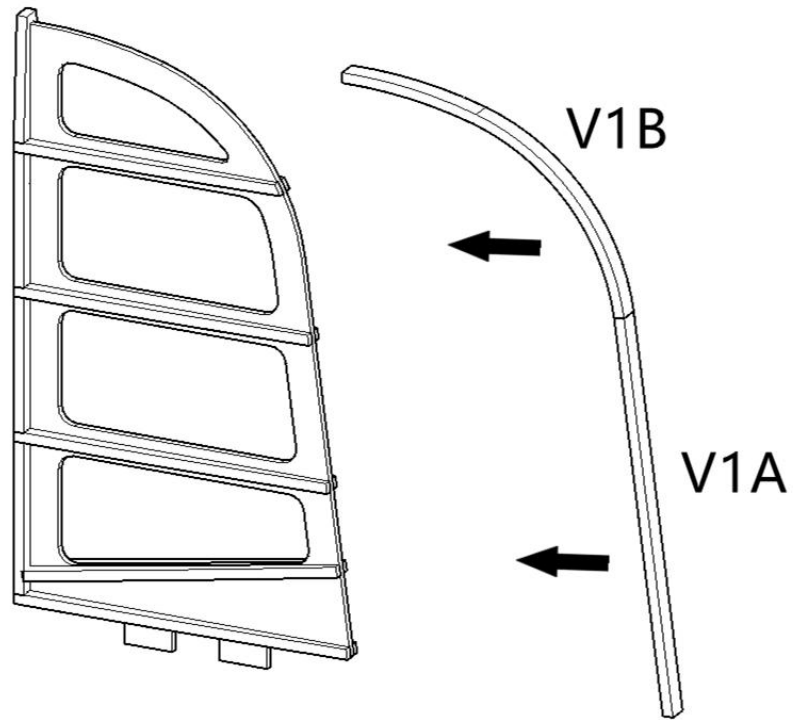


Step1

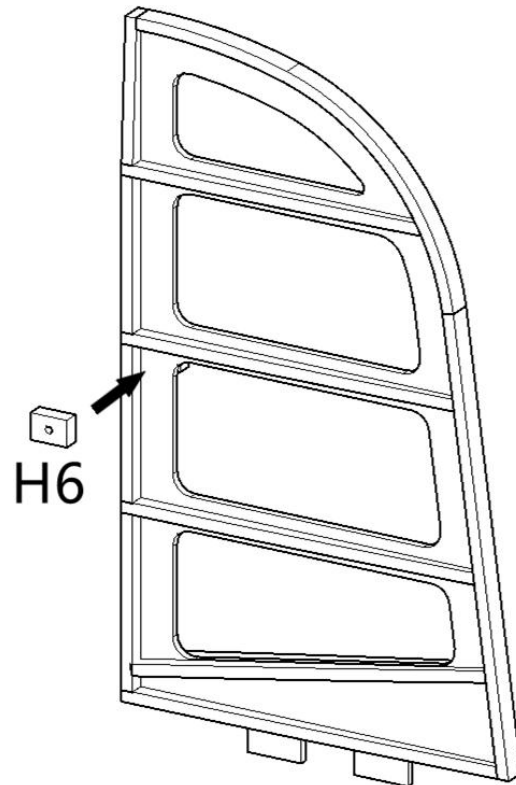
Step2



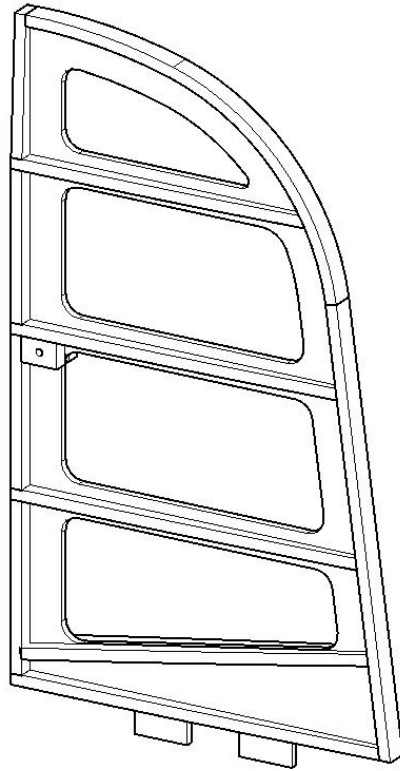
Step3



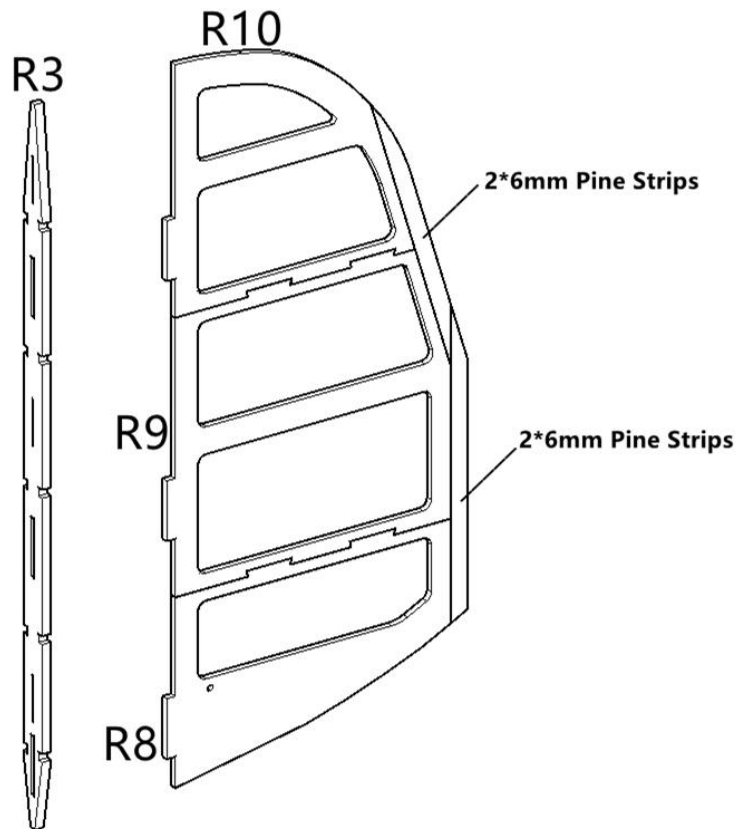
Step4



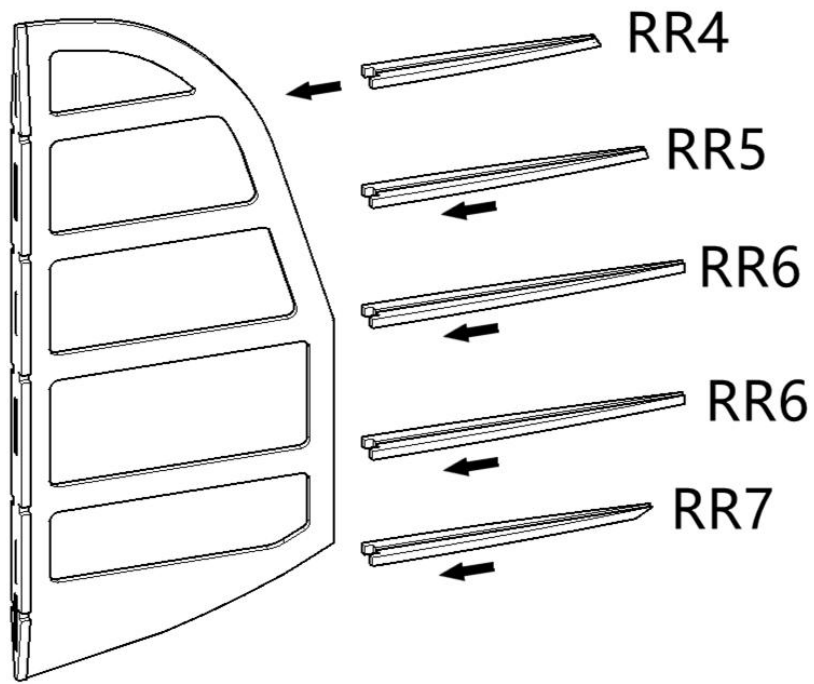
Step5



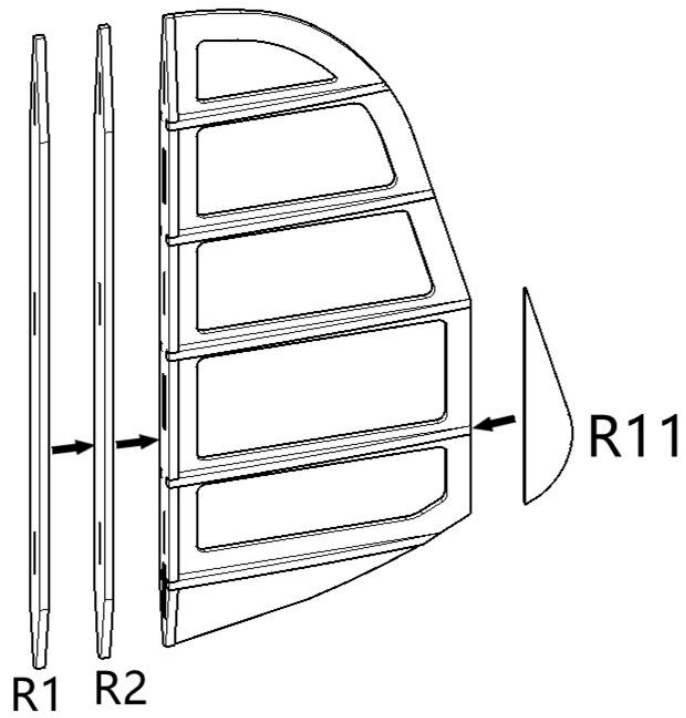
Step6



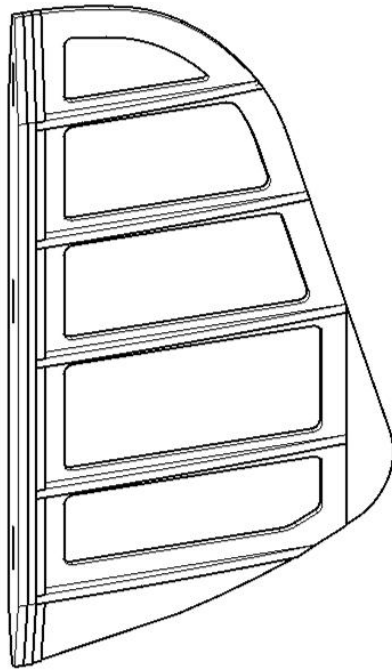
Step7



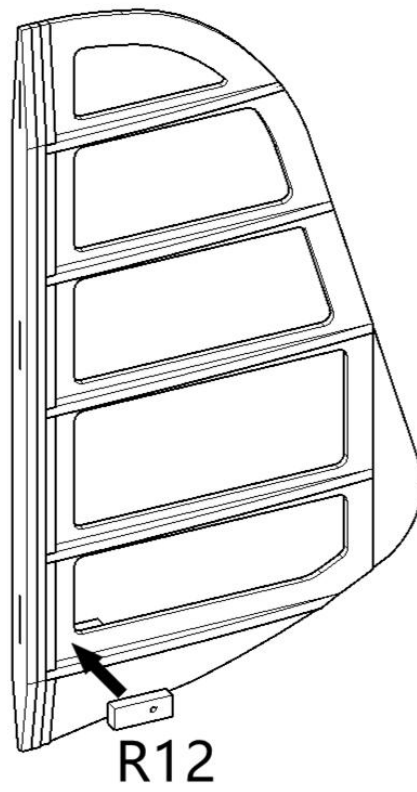
Step8



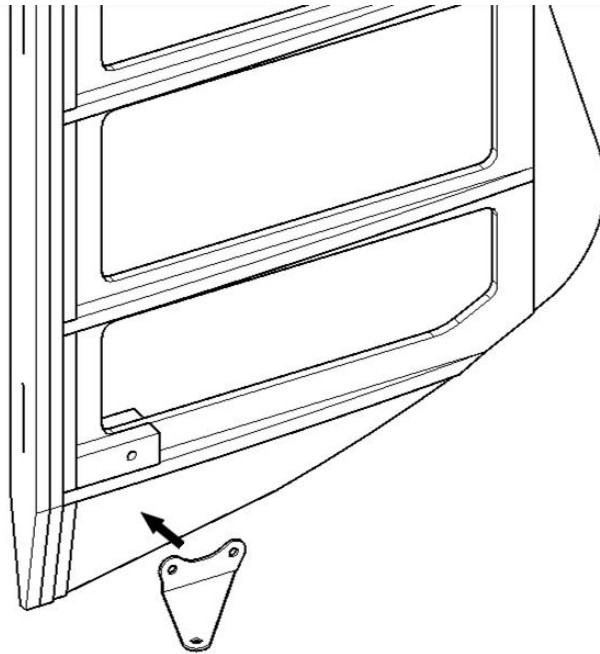
Step9



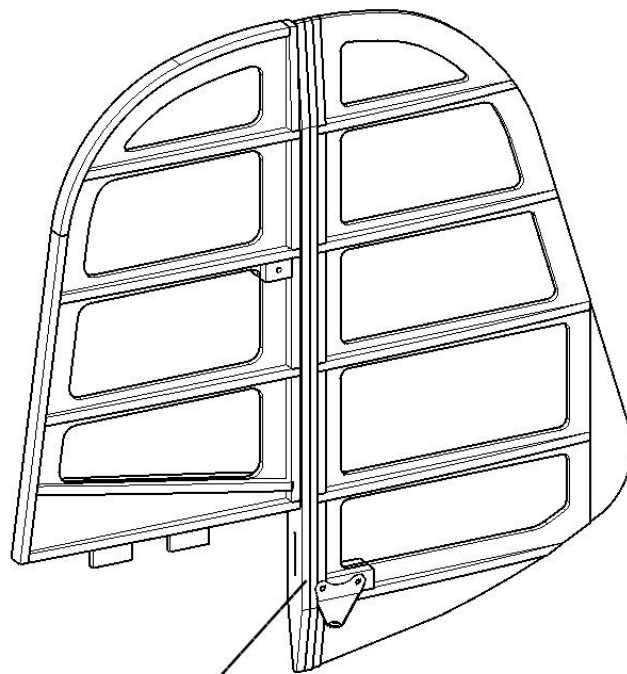
Step10



Step11

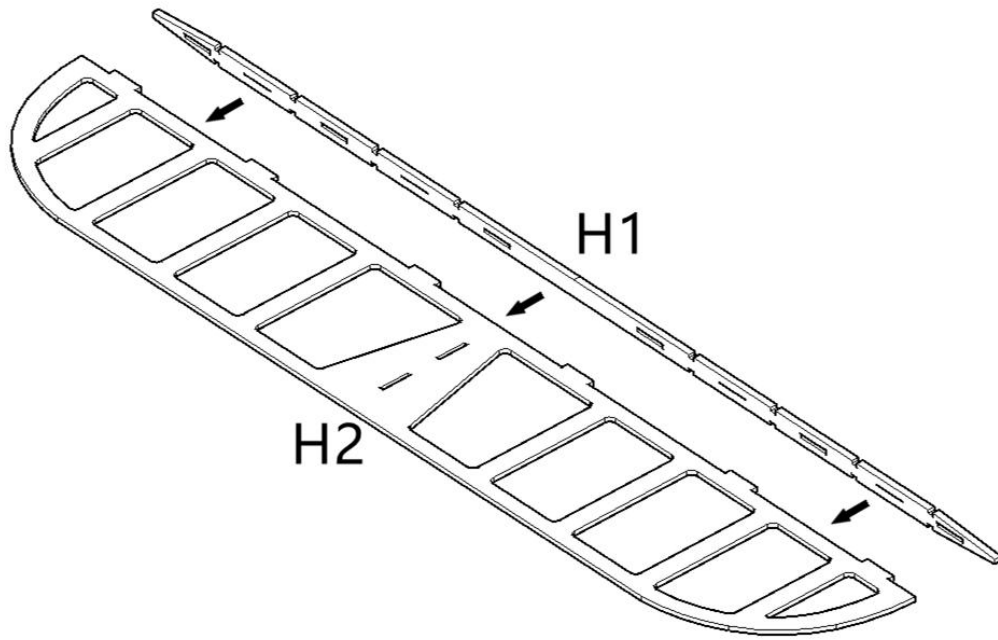


Step12

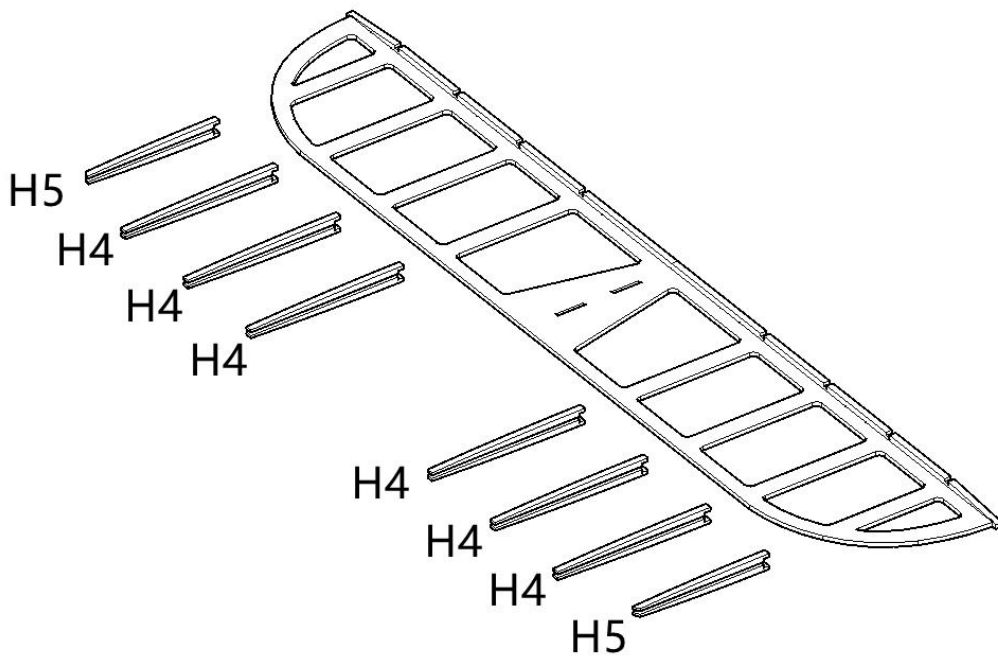


Sand this edge to bevel

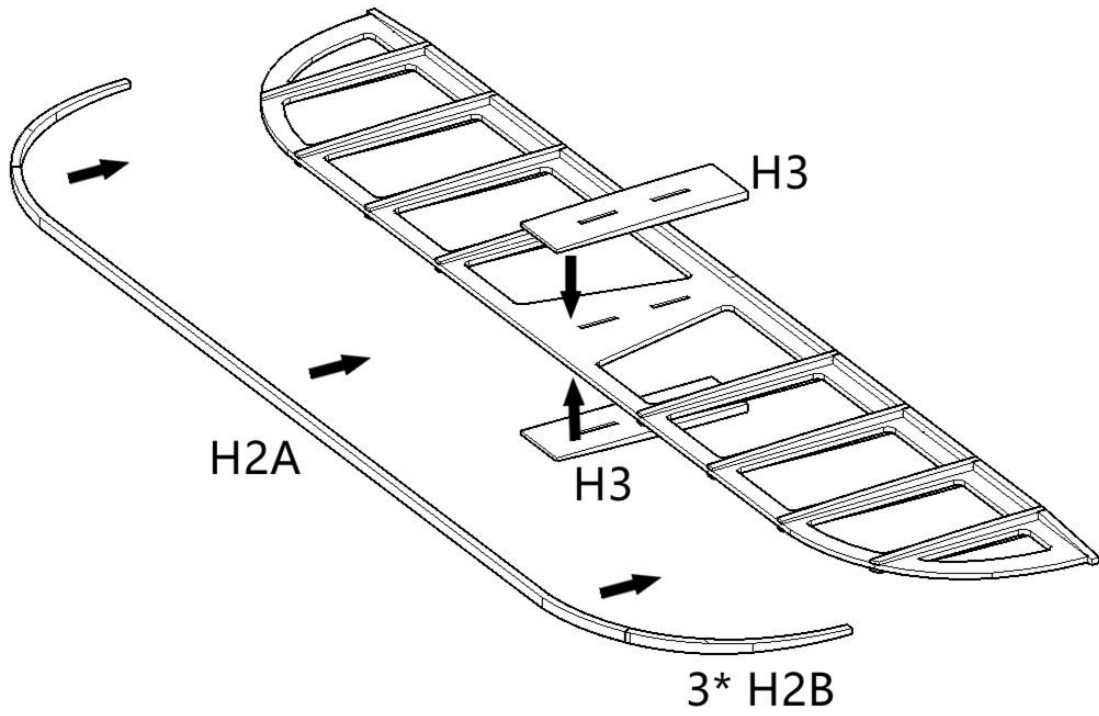
Step13



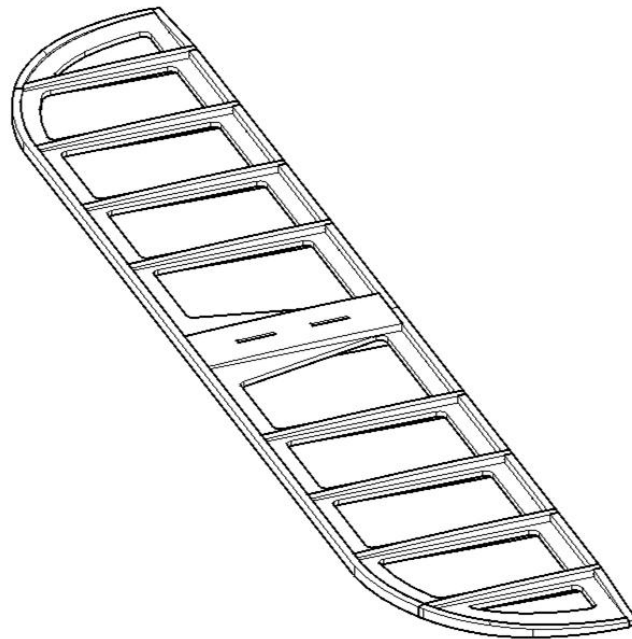
Step14



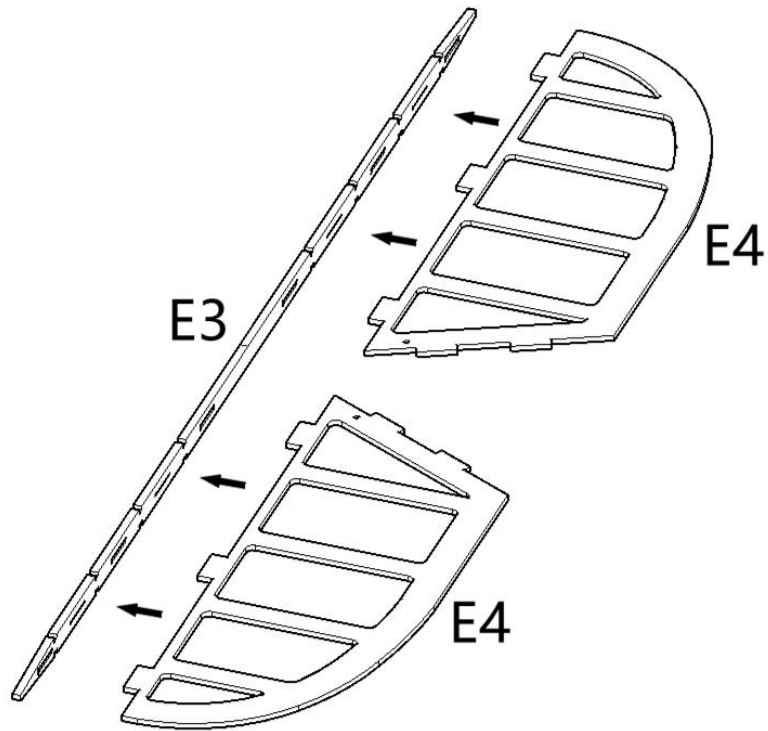
Step15



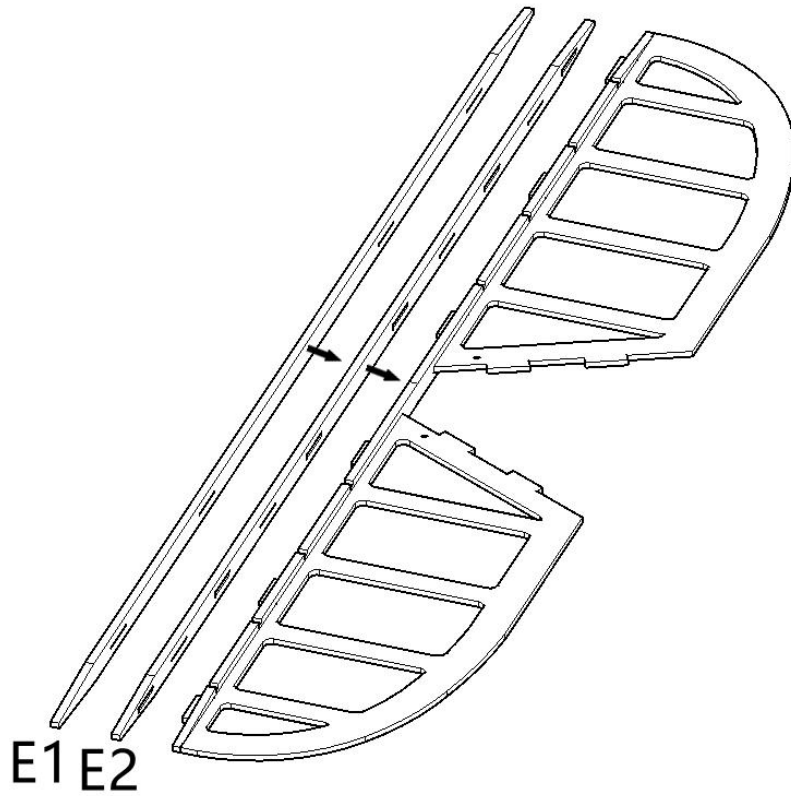
Step16



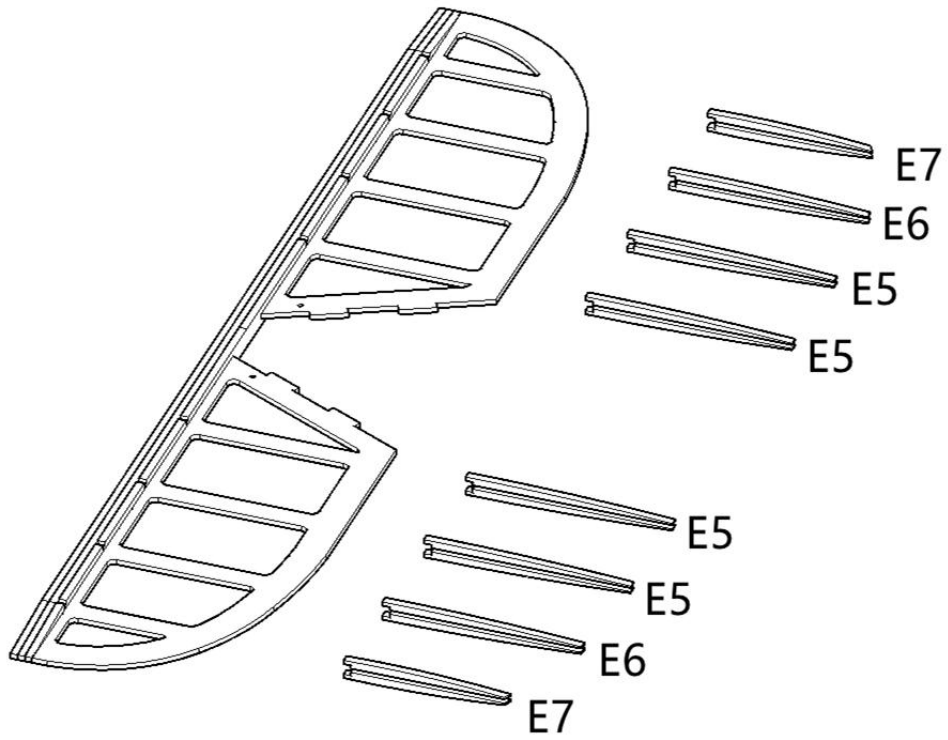
Step17



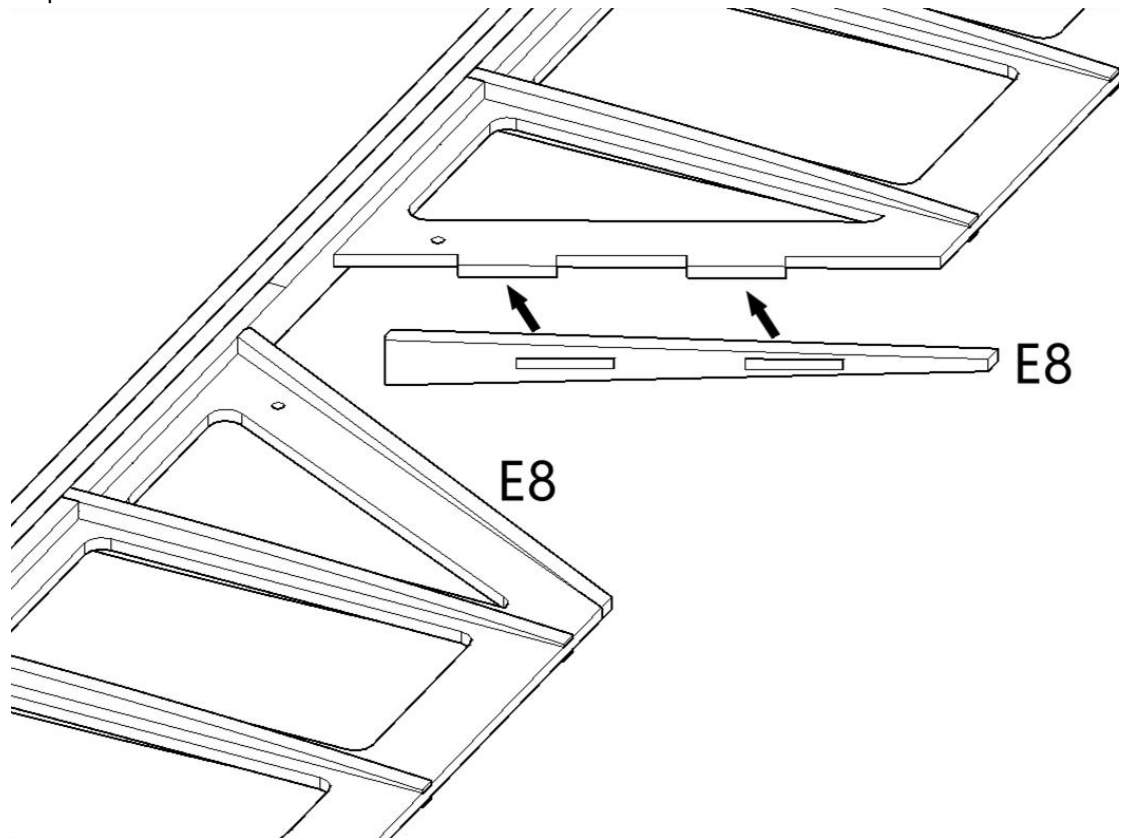
Step18



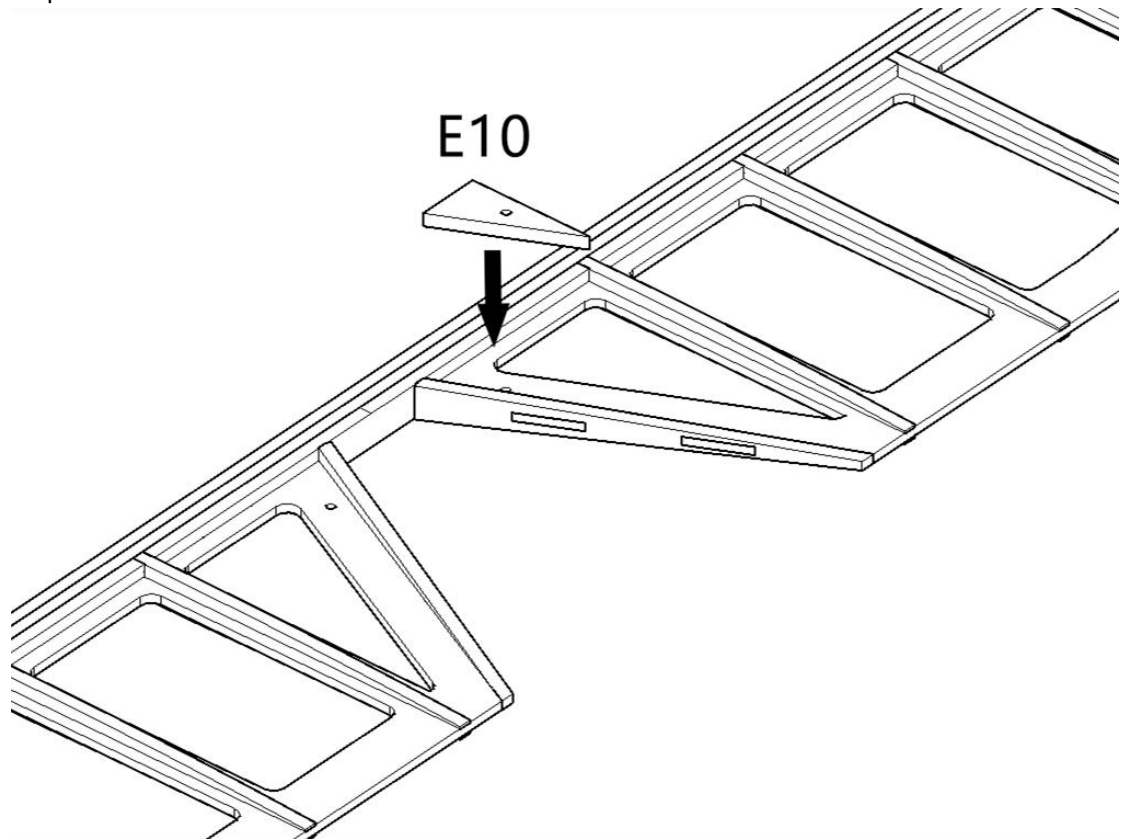
Step19



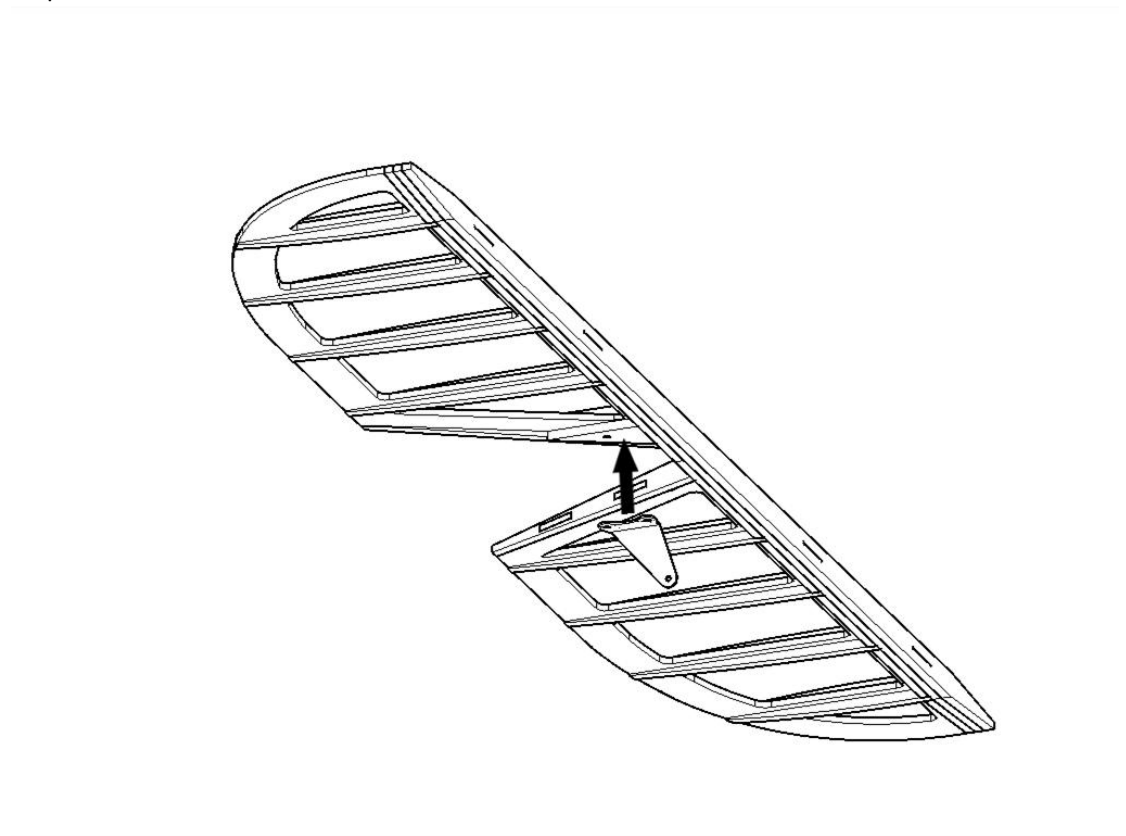
Step20



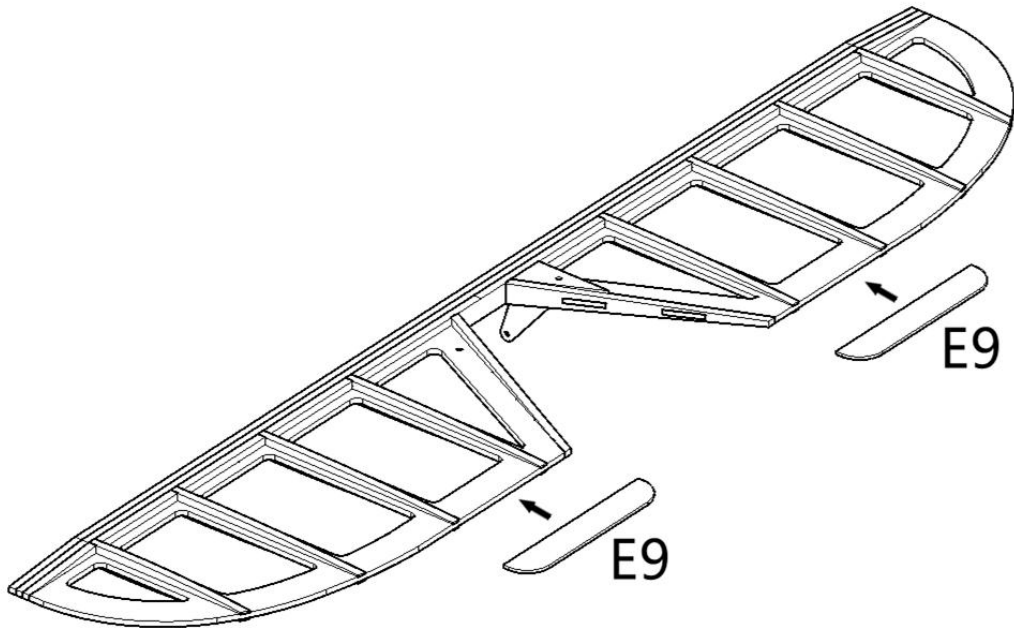
Step21



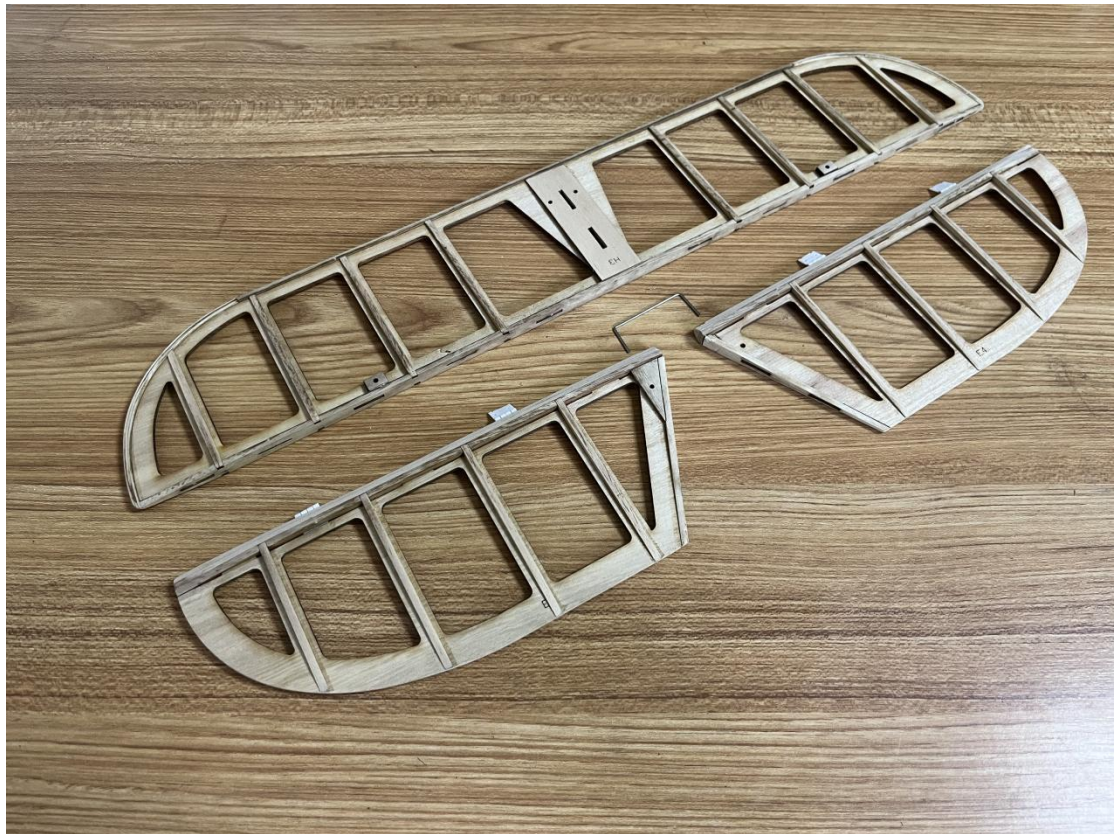
Step22



Step23



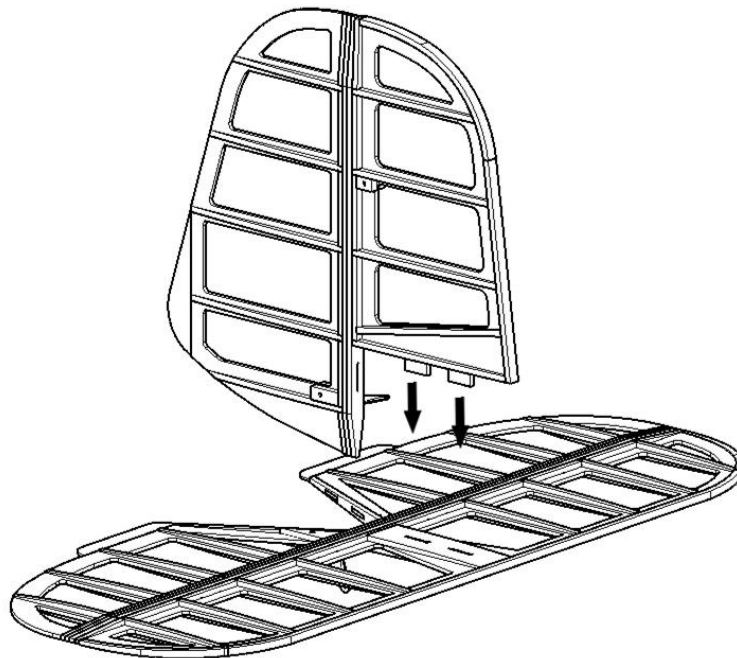
Step24



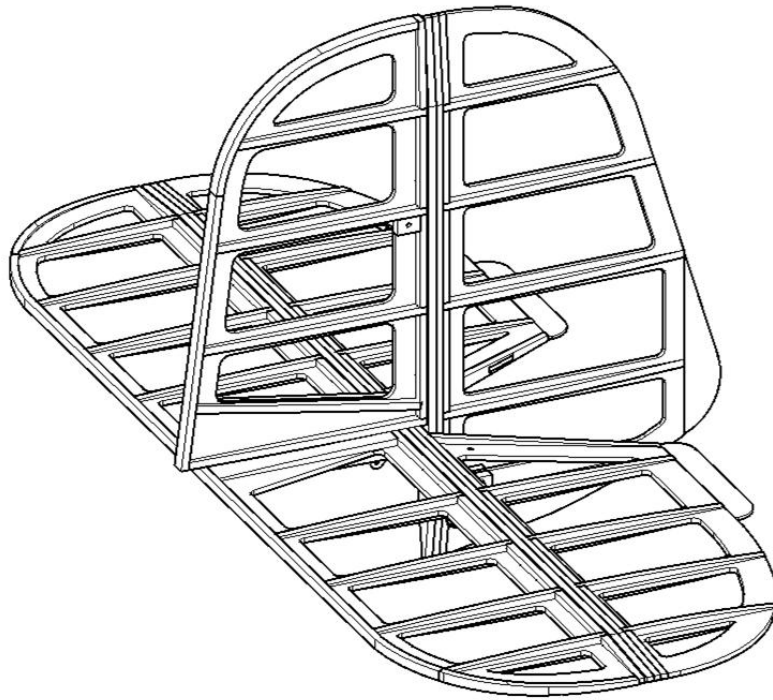
Step25



Step26

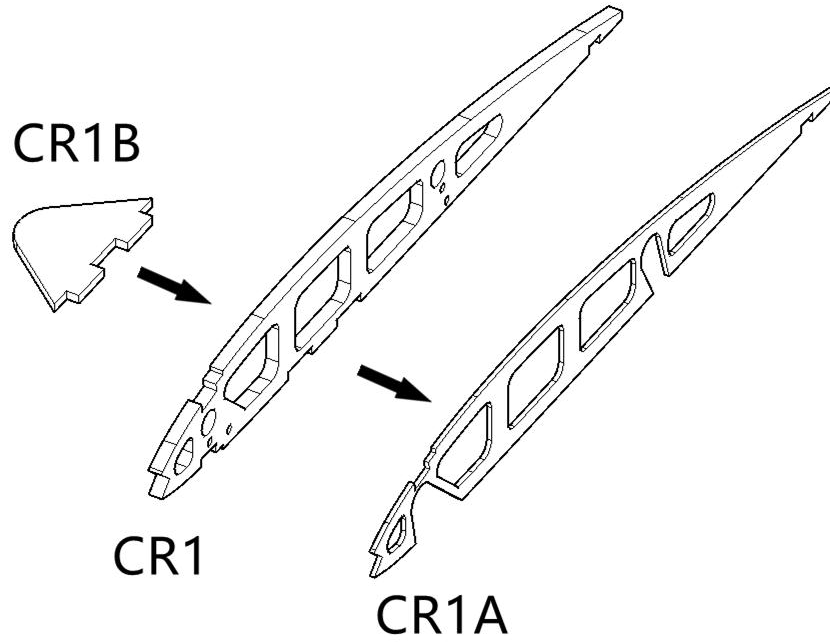


Step27



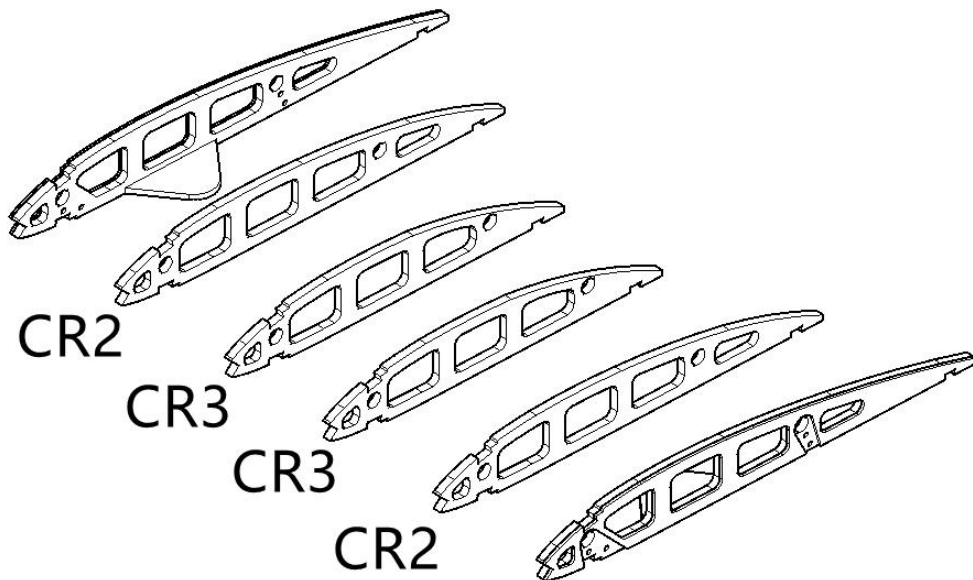
Builder's Note:

3.ASSEMBLY-Central wing

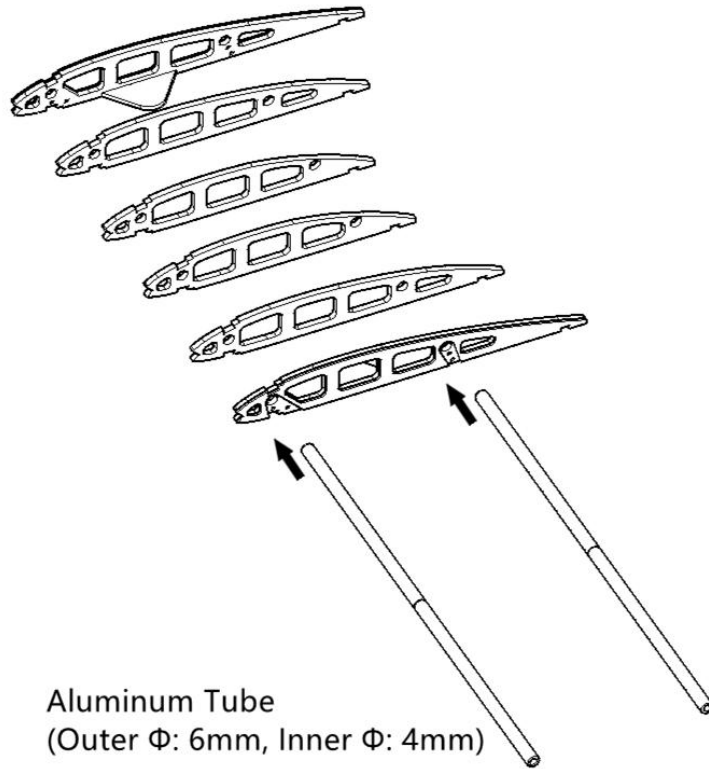


Step1

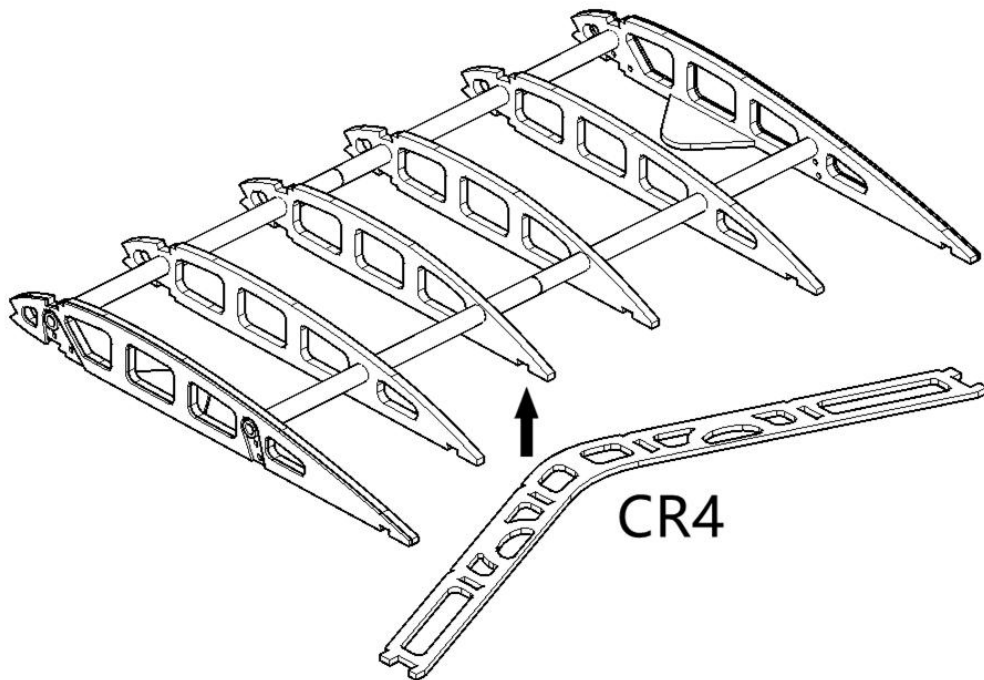
Step2



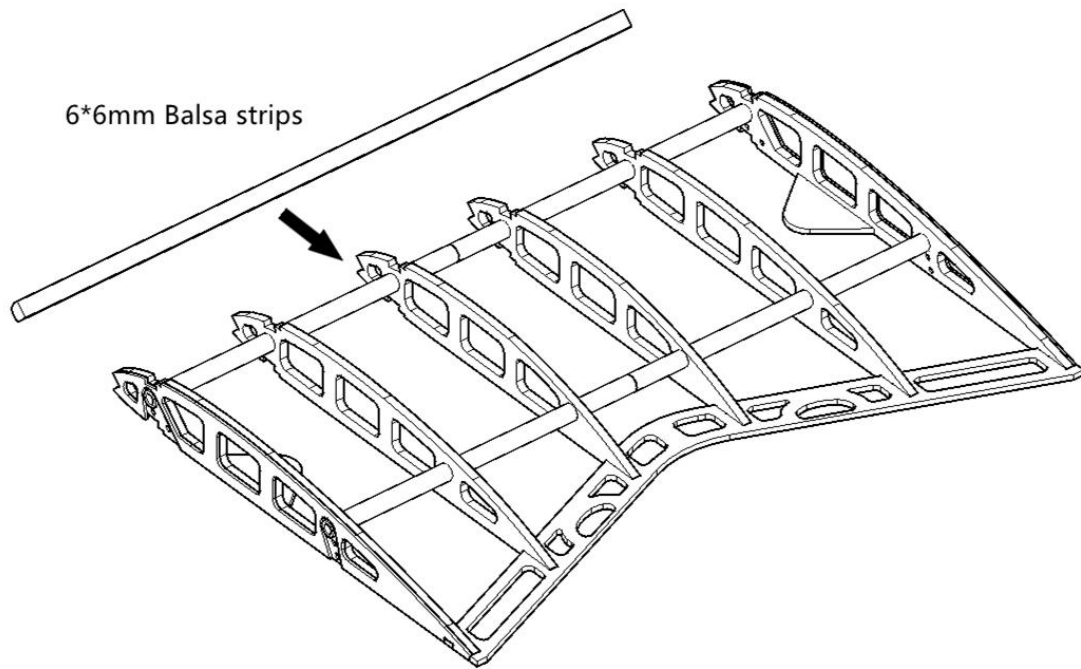
Step3



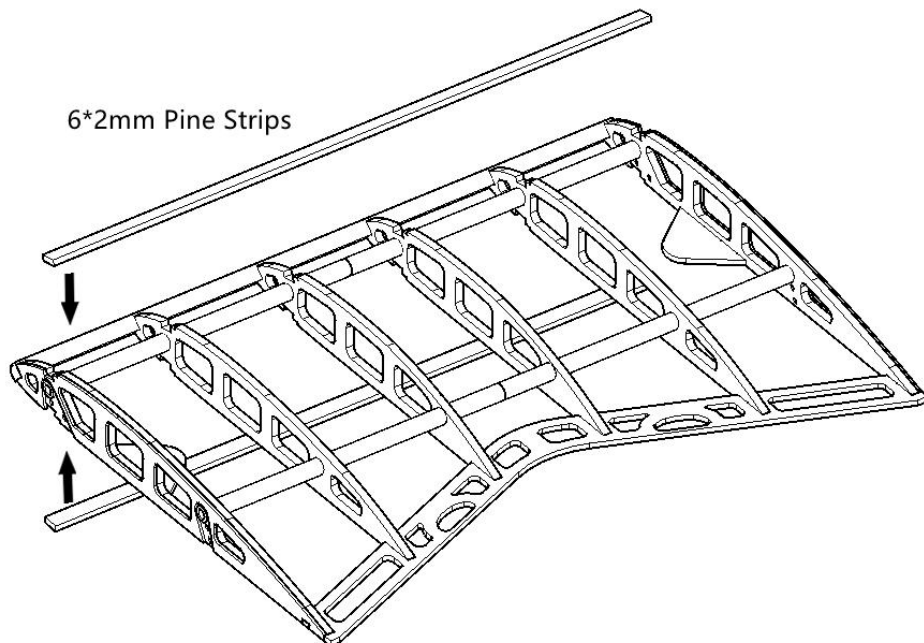
Step4



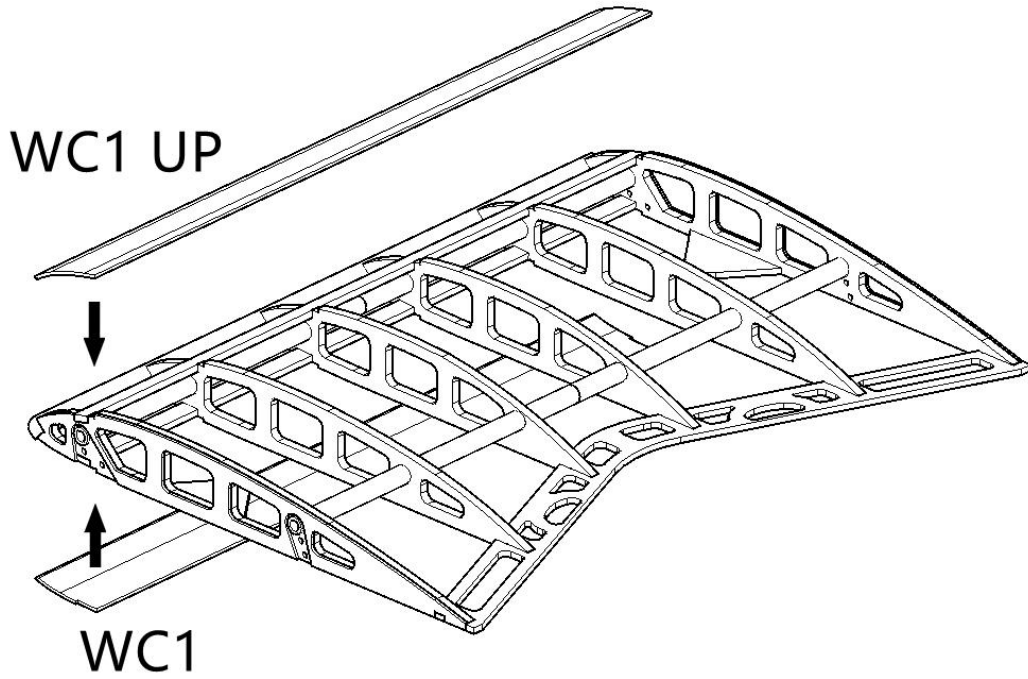
Step5



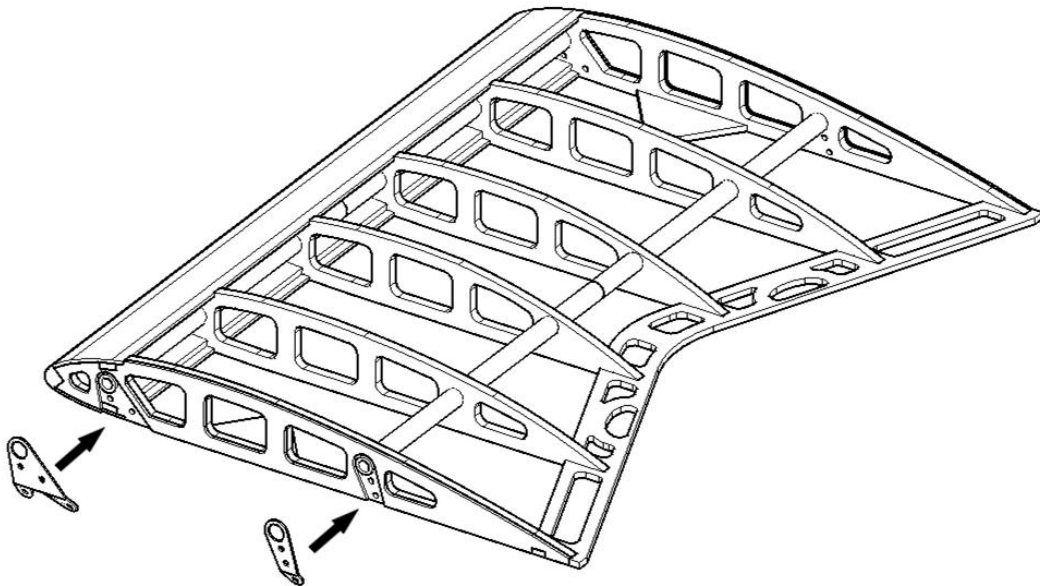
Step6



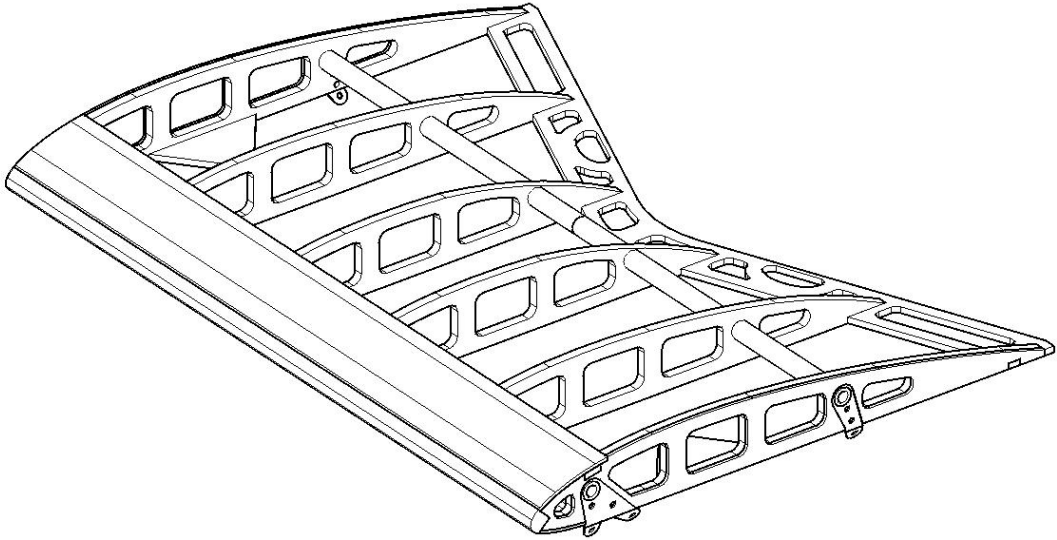
Step7



Step8



Step9



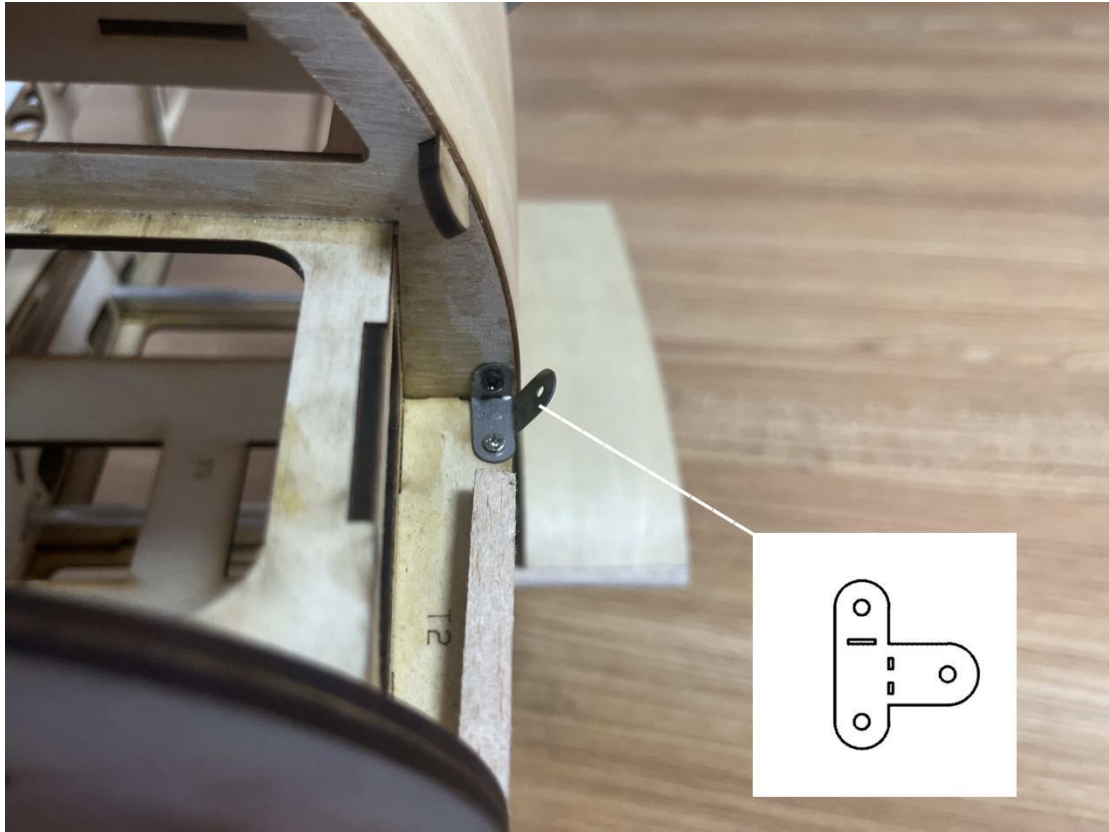
Step10



Step11



Step12



Step13



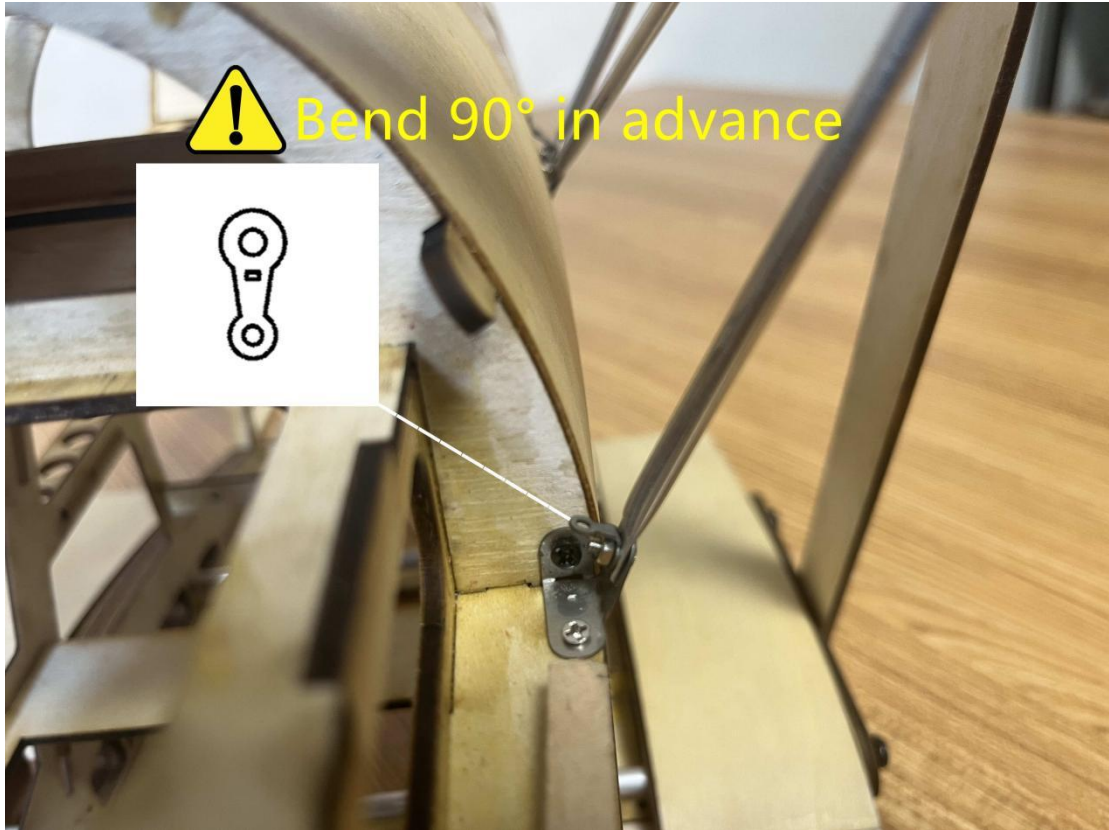
Step14



Step15



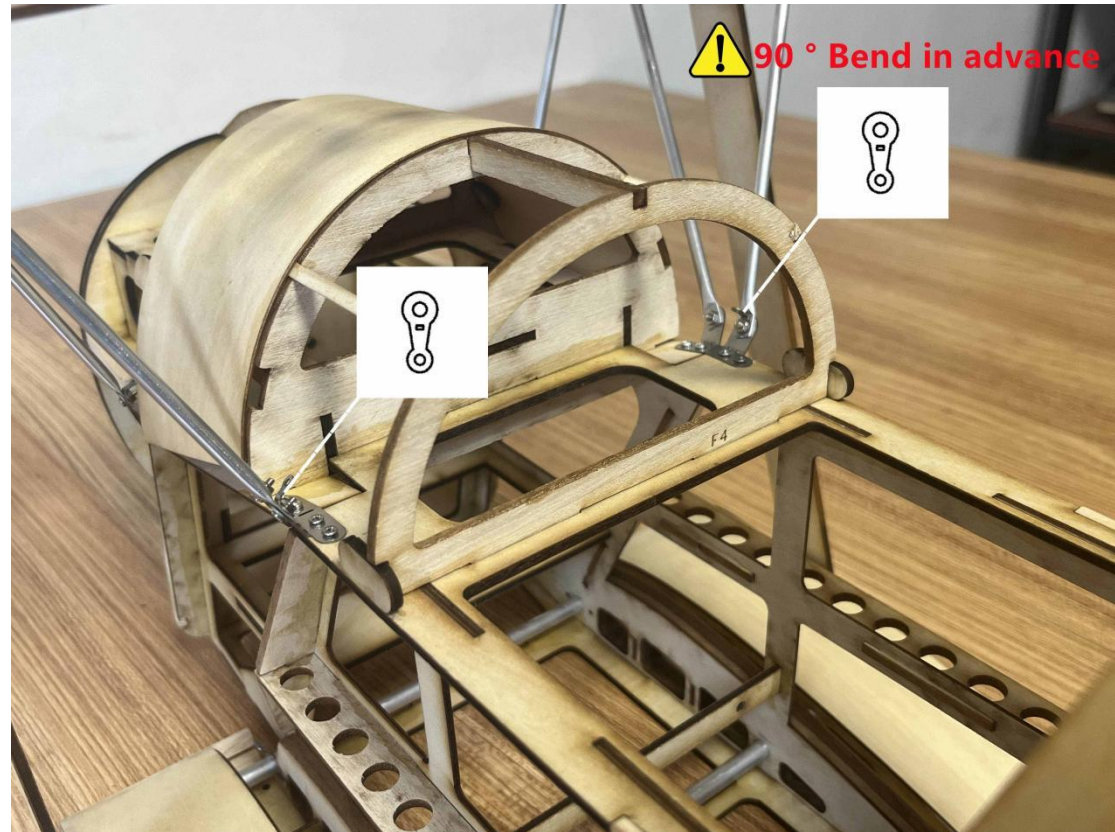
Step16



Step17



Step18



Step19



Step20



Step21



Tips: How to cover the parts using leather:



1. Apply a layer of glue on the components
2. Cover the parts with leather, making the front of the parts as tight as possible and without wrinkles
3. Use a small electric iron to adjust the temperature to 135 °C to iron the surface to solidify the glue
4. Brush the glue again at the edge of the leather, then iron it with an iron, stick to the edge, and press the folds. There can be wrinkles on the back

Builder's Note:

4.ASSEMBLY-Cabin Doors&Panel

Step1



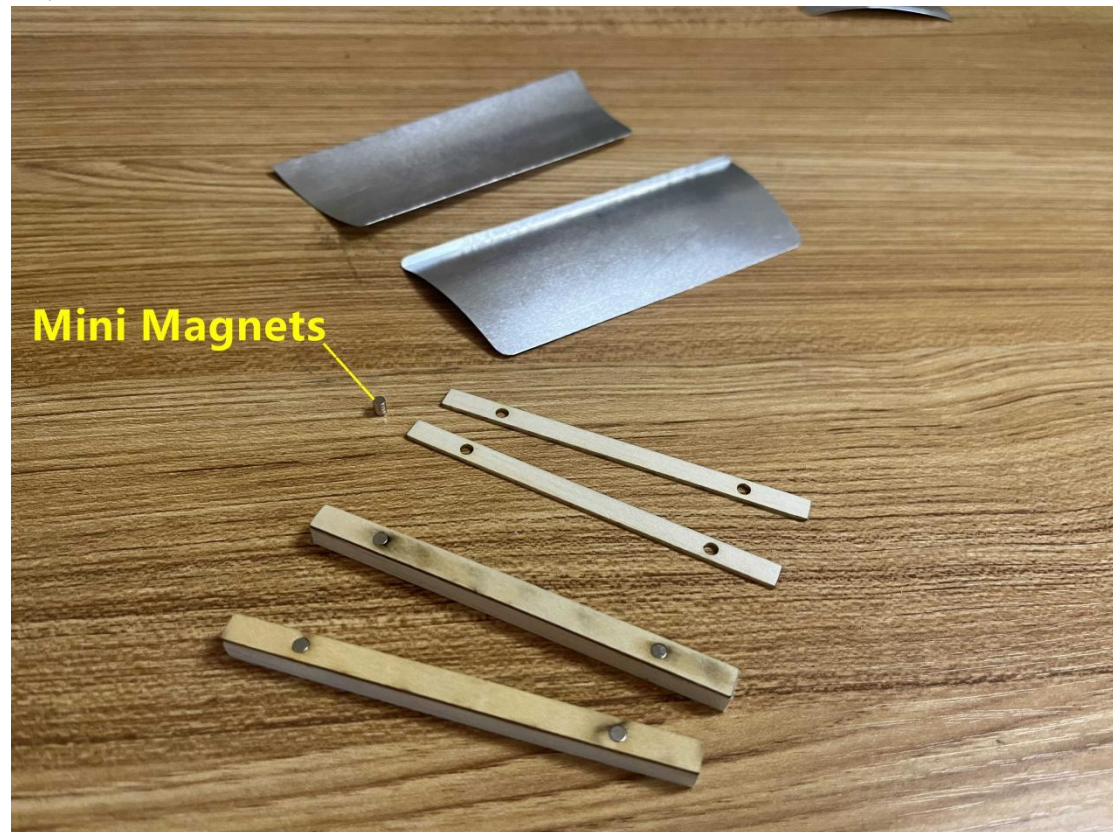
Step2



Step3



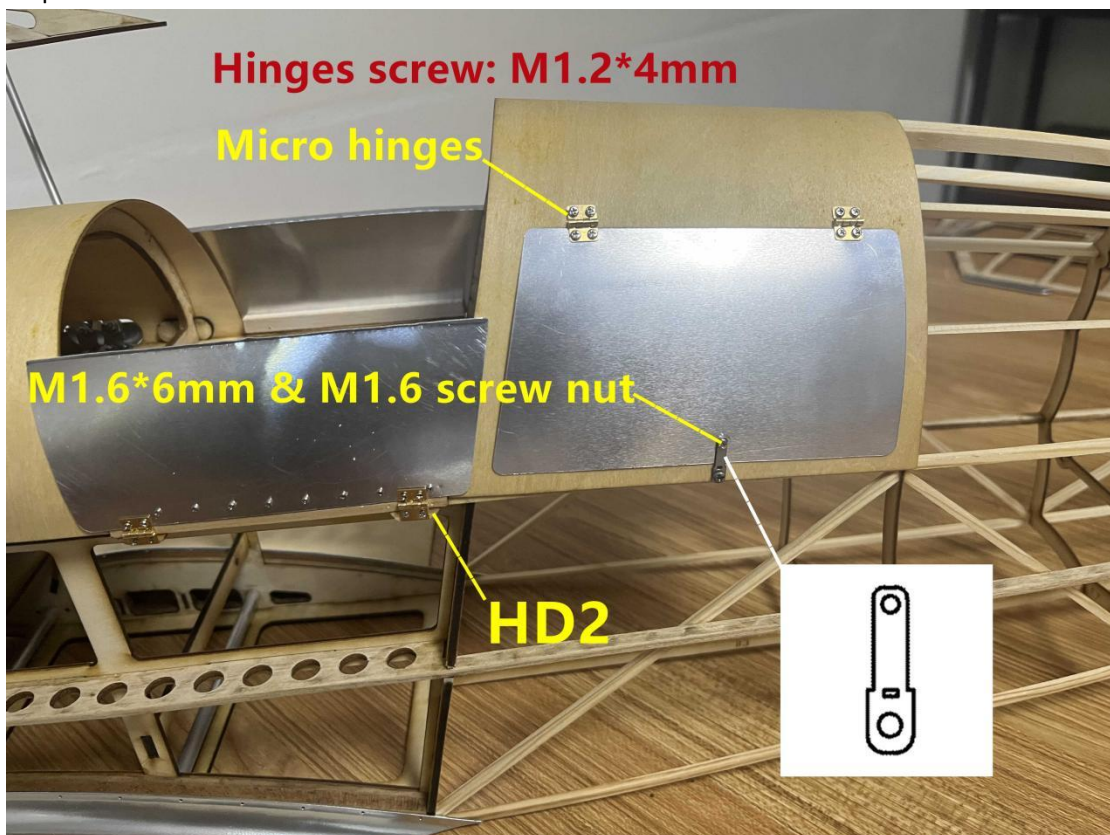
Step4



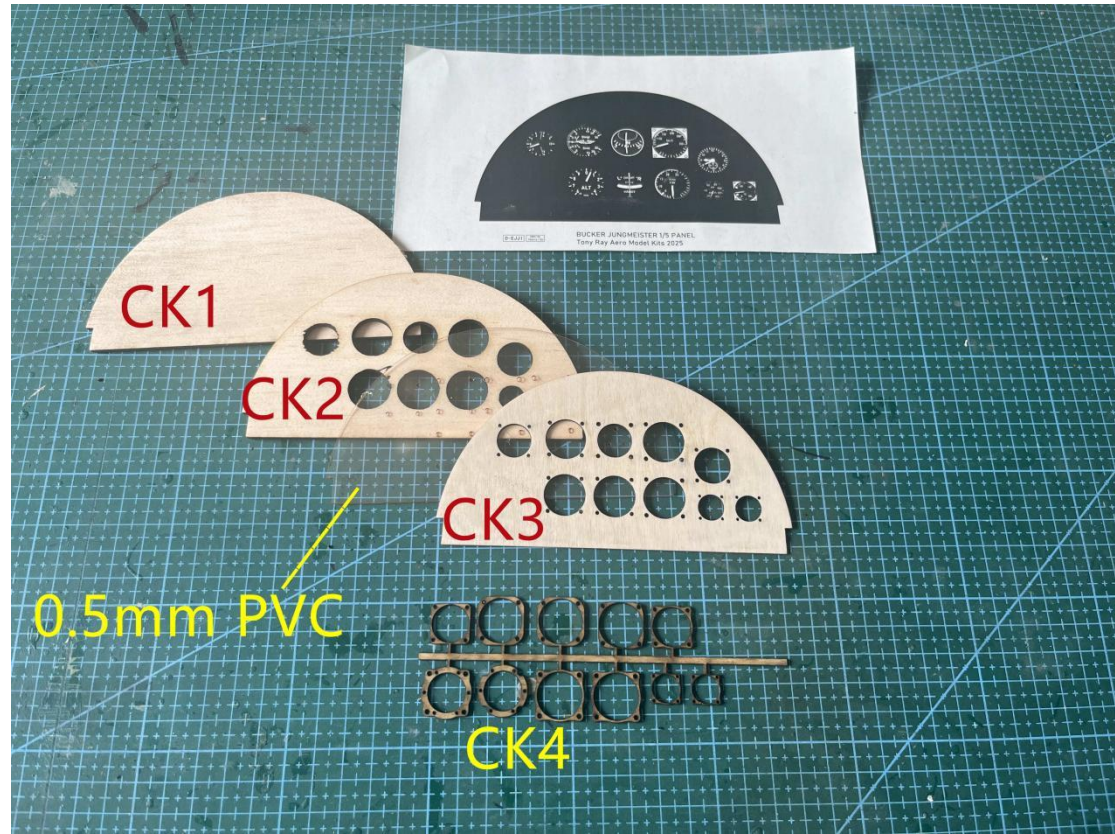
Step5



Step6



Step7



Step8



5.ASSEMBLY-Landing Gear

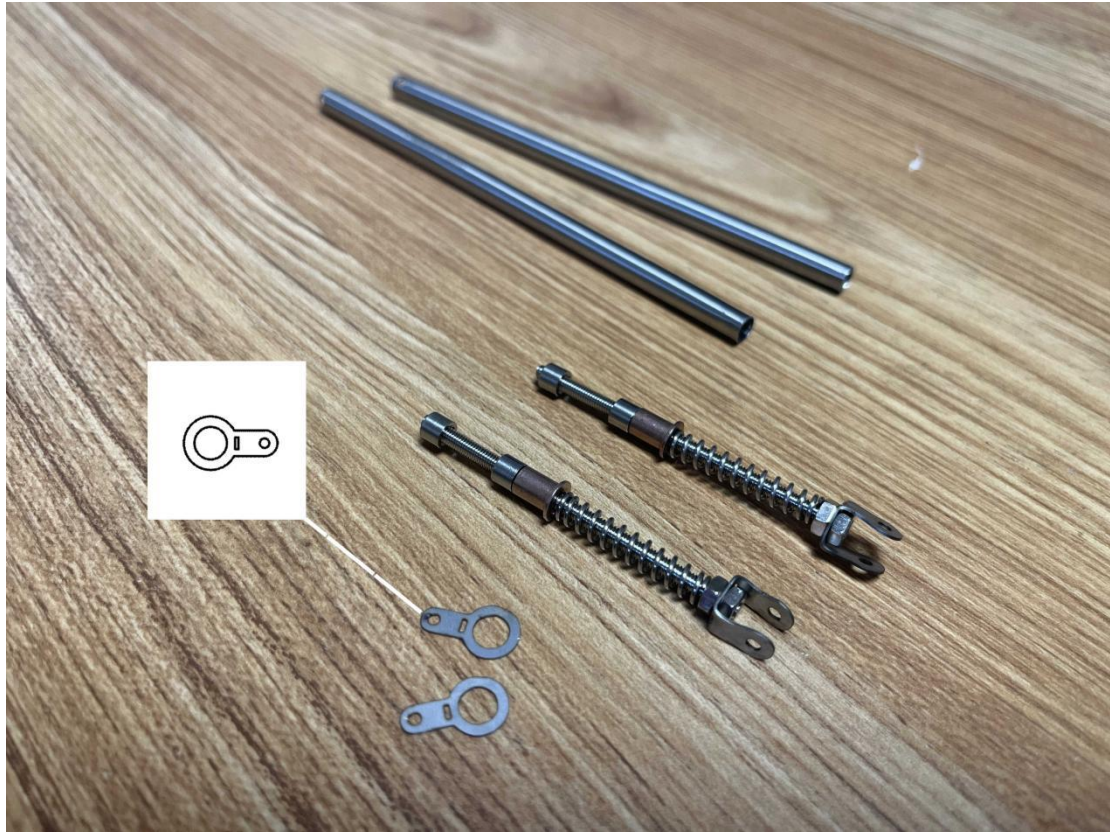
Step1



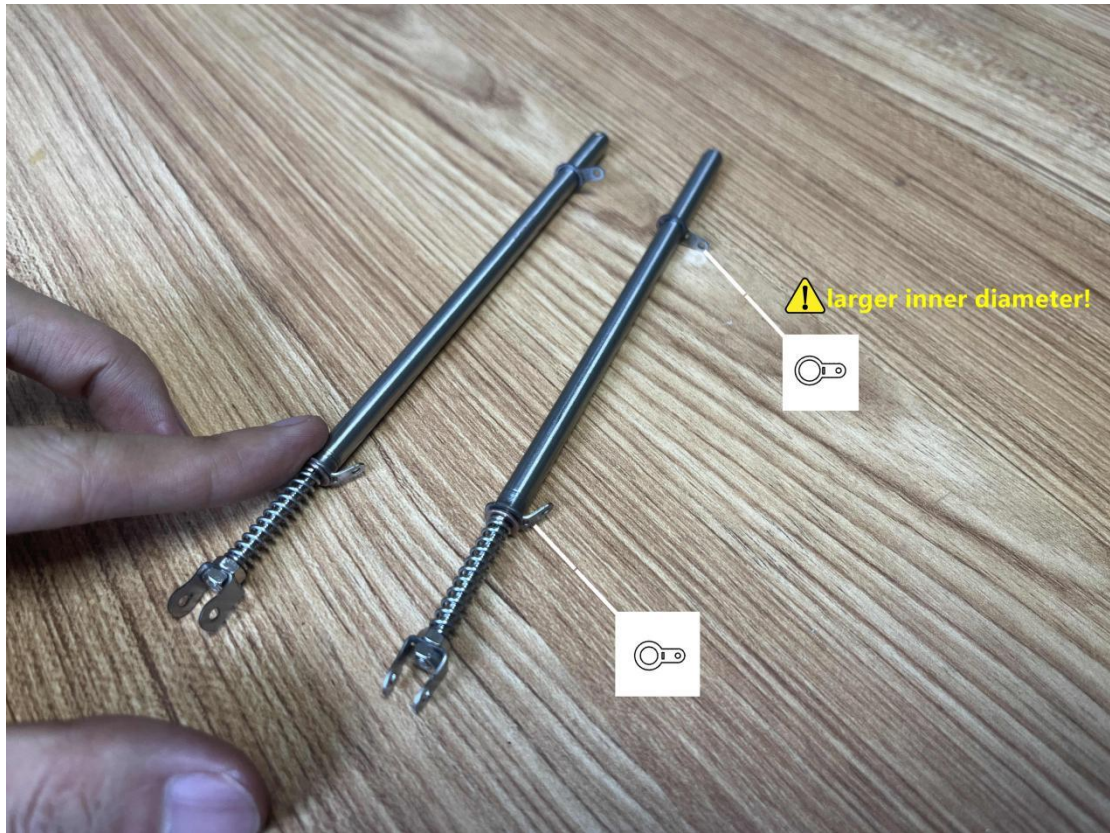
Step2



Step3



Step4



Step5



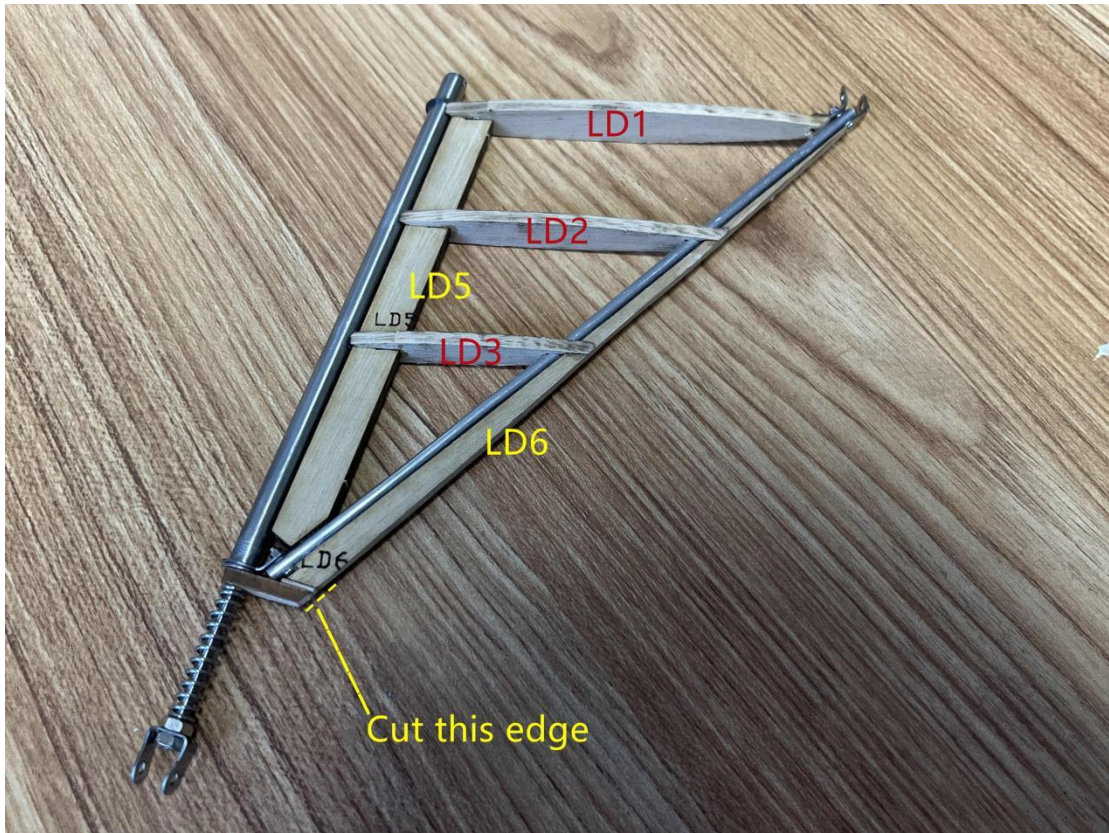
Step6



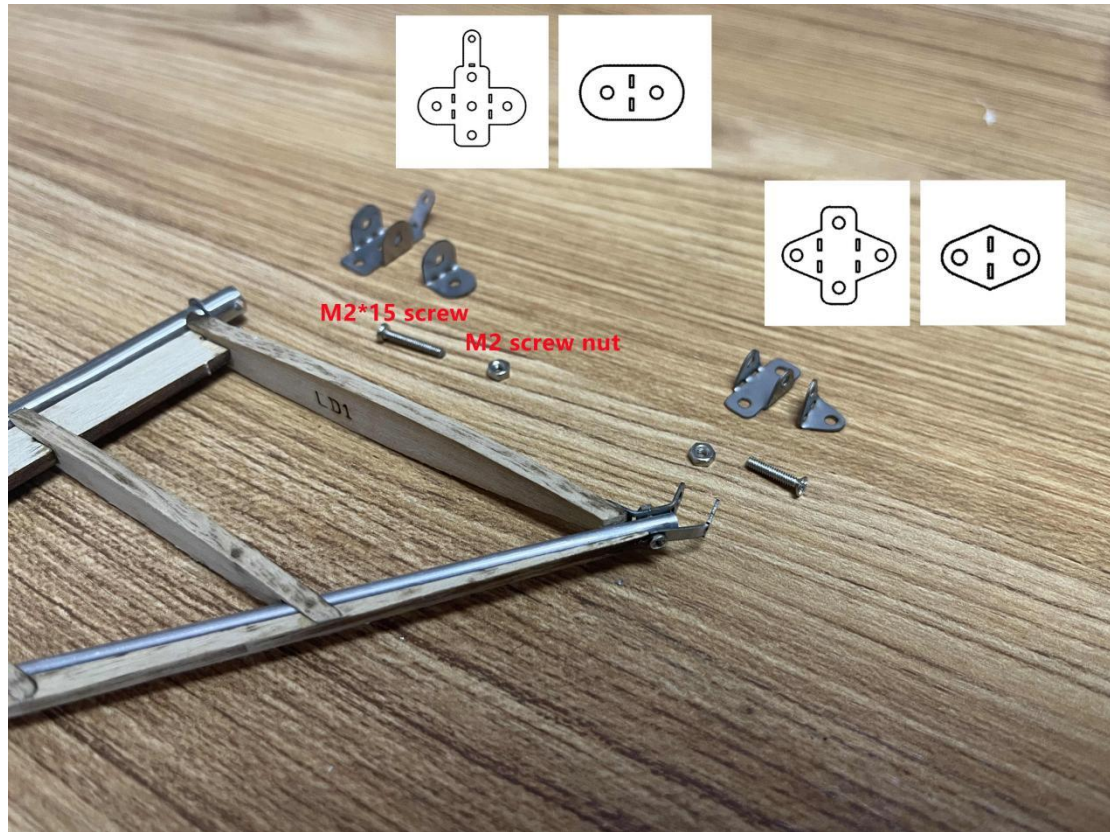
Step7



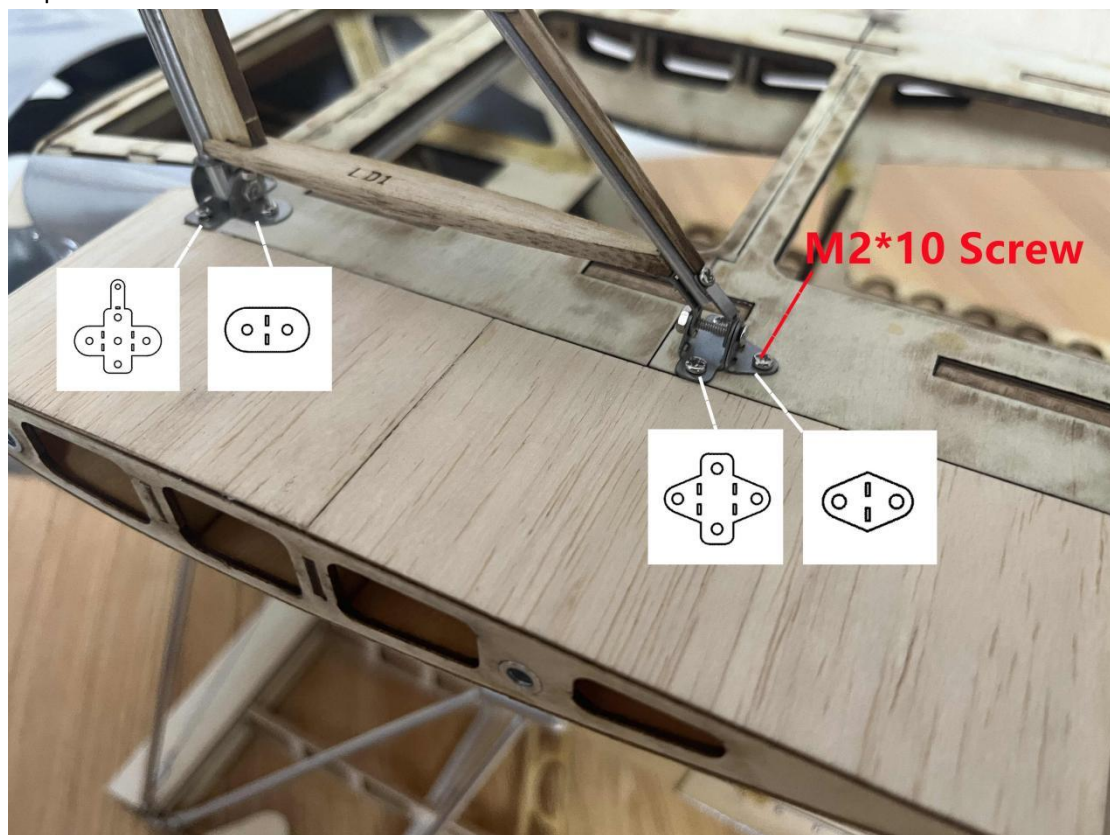
Step8



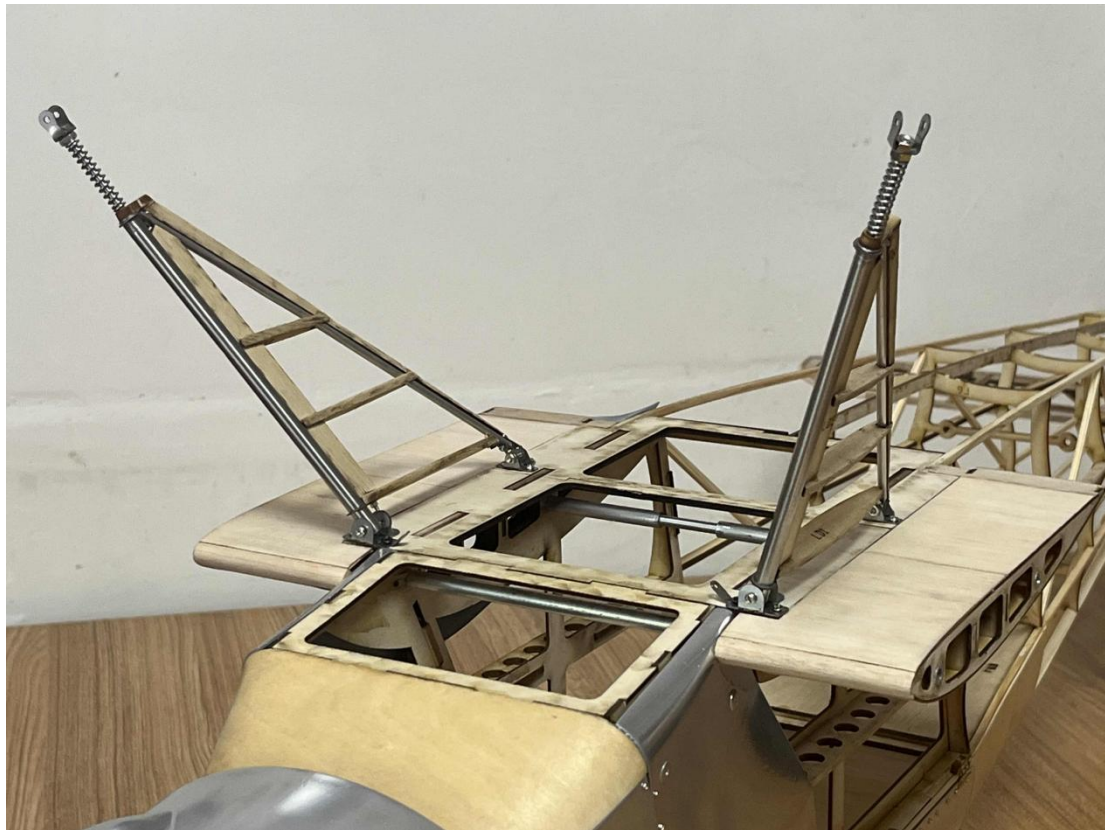
Step9



Step10



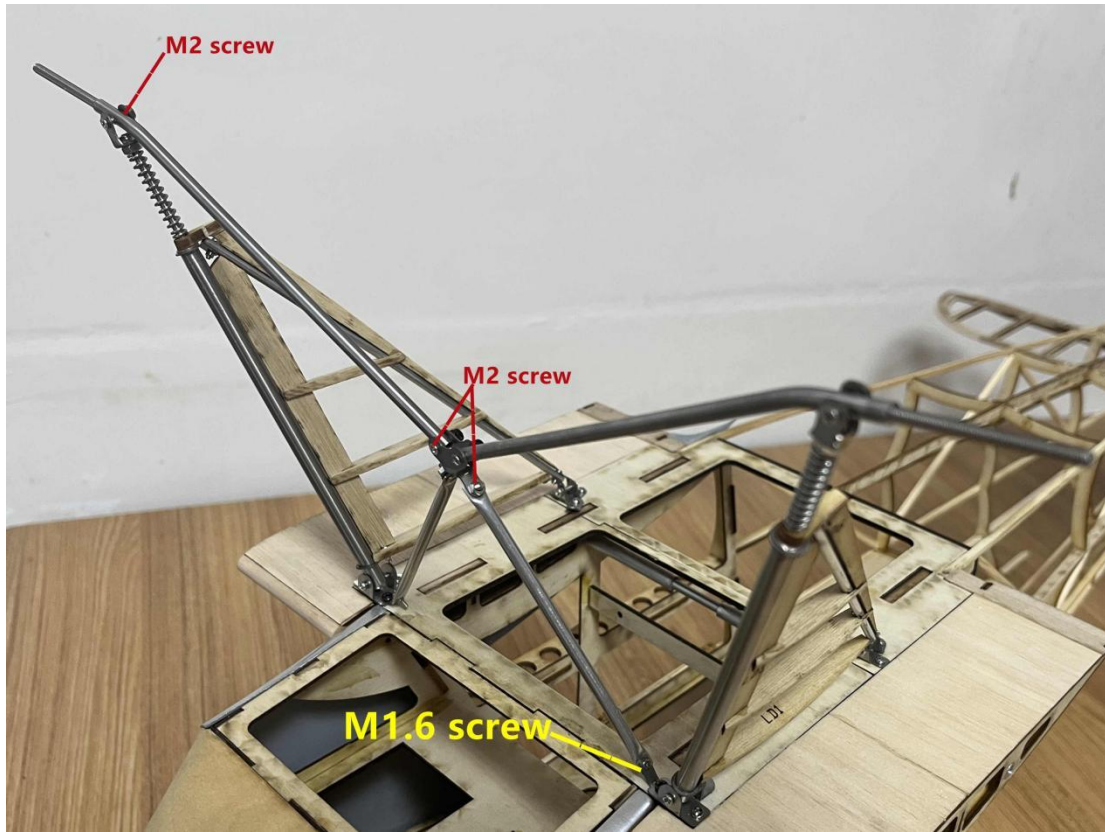
Step11



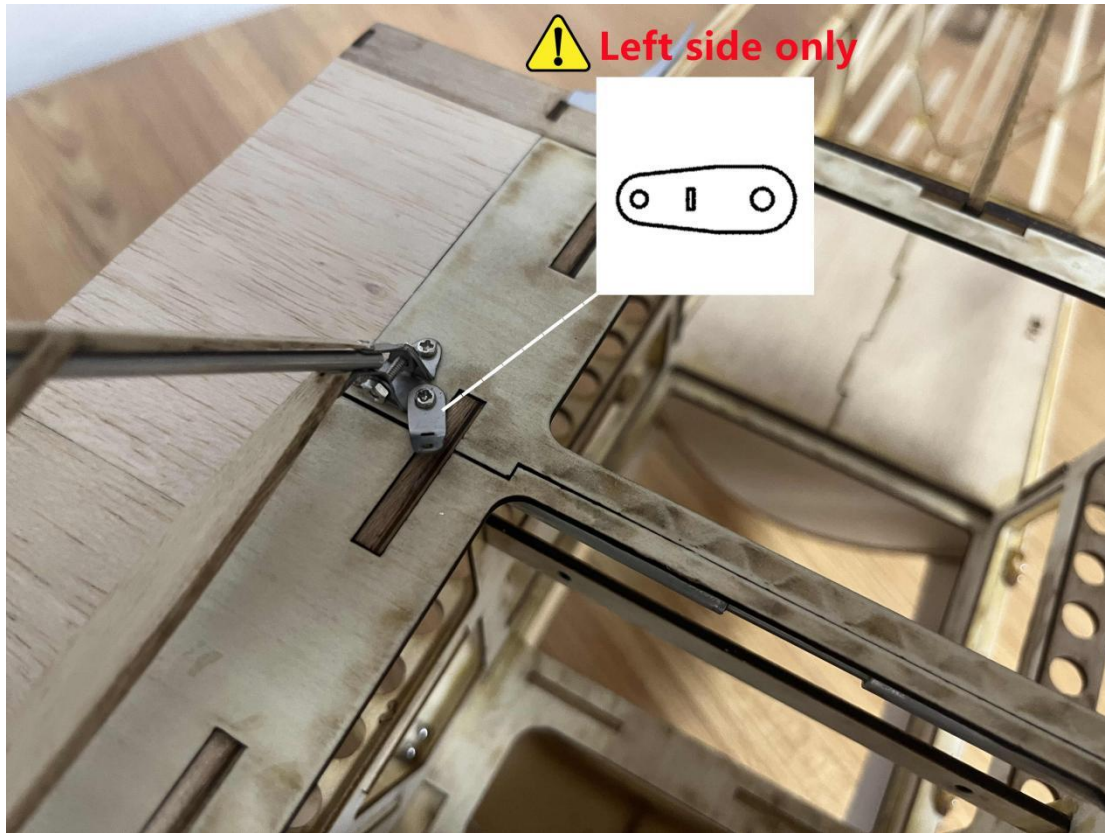
Step12



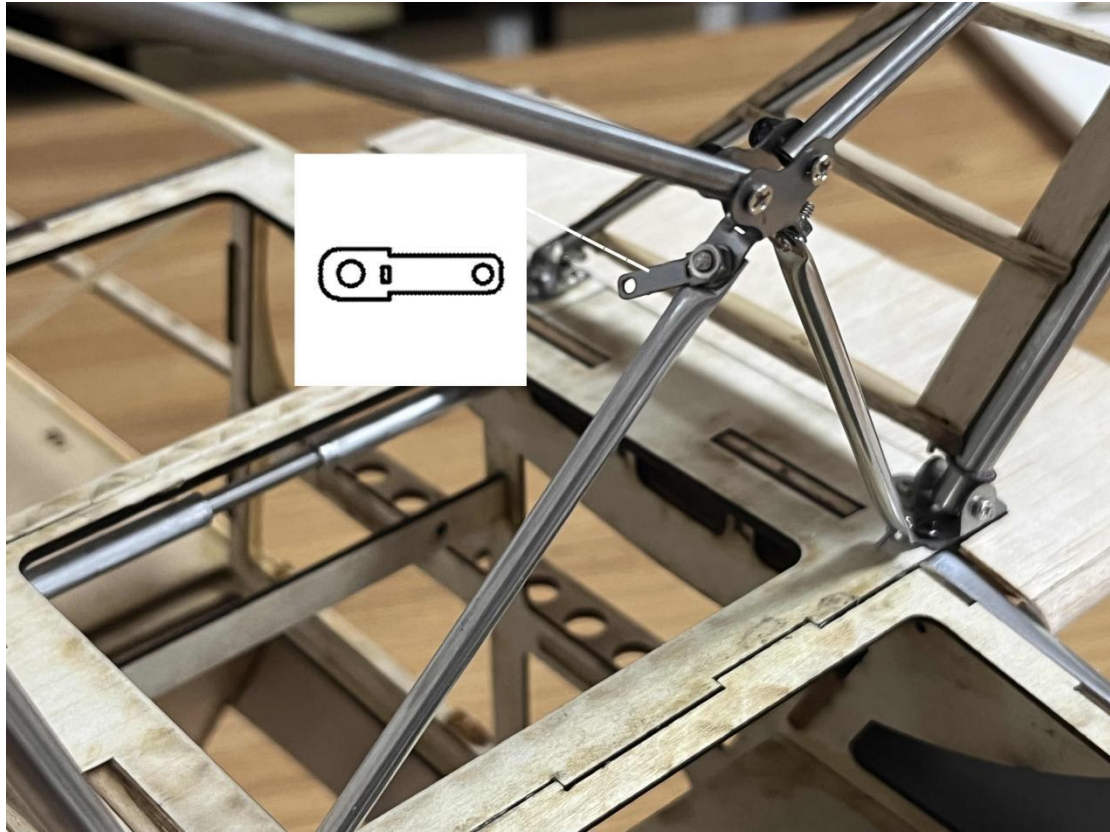
Step13



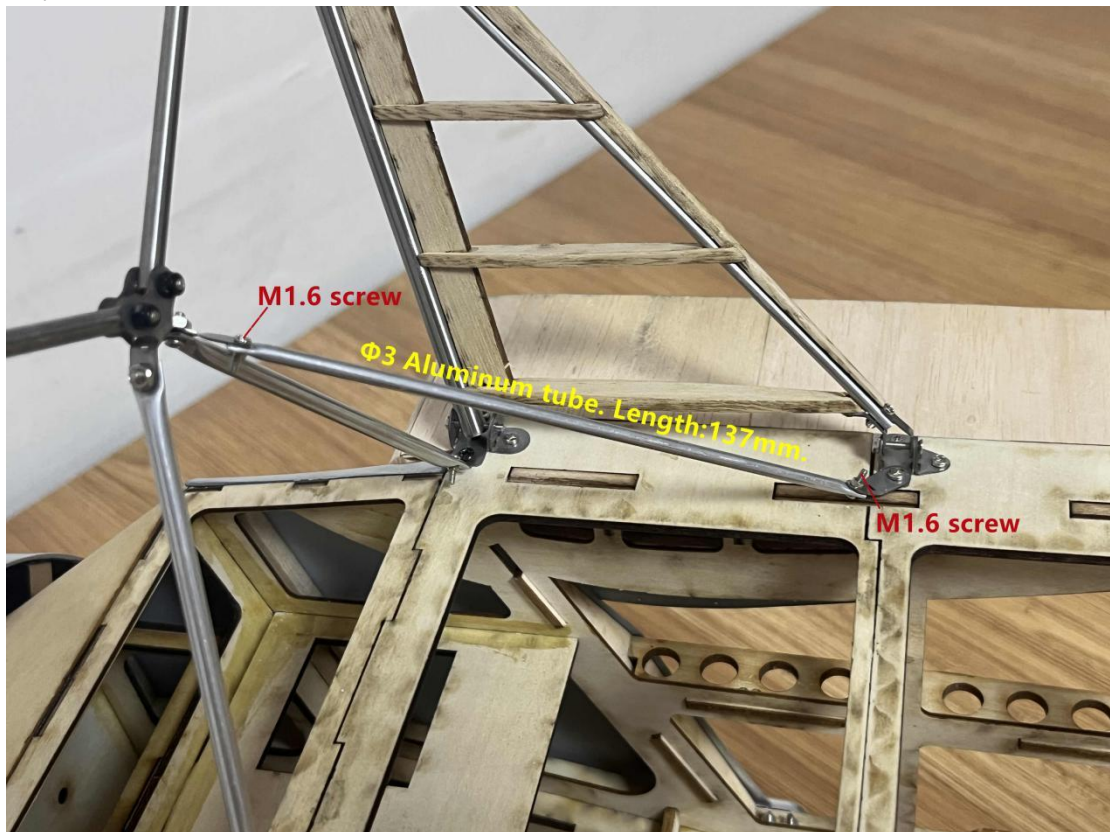
Step14



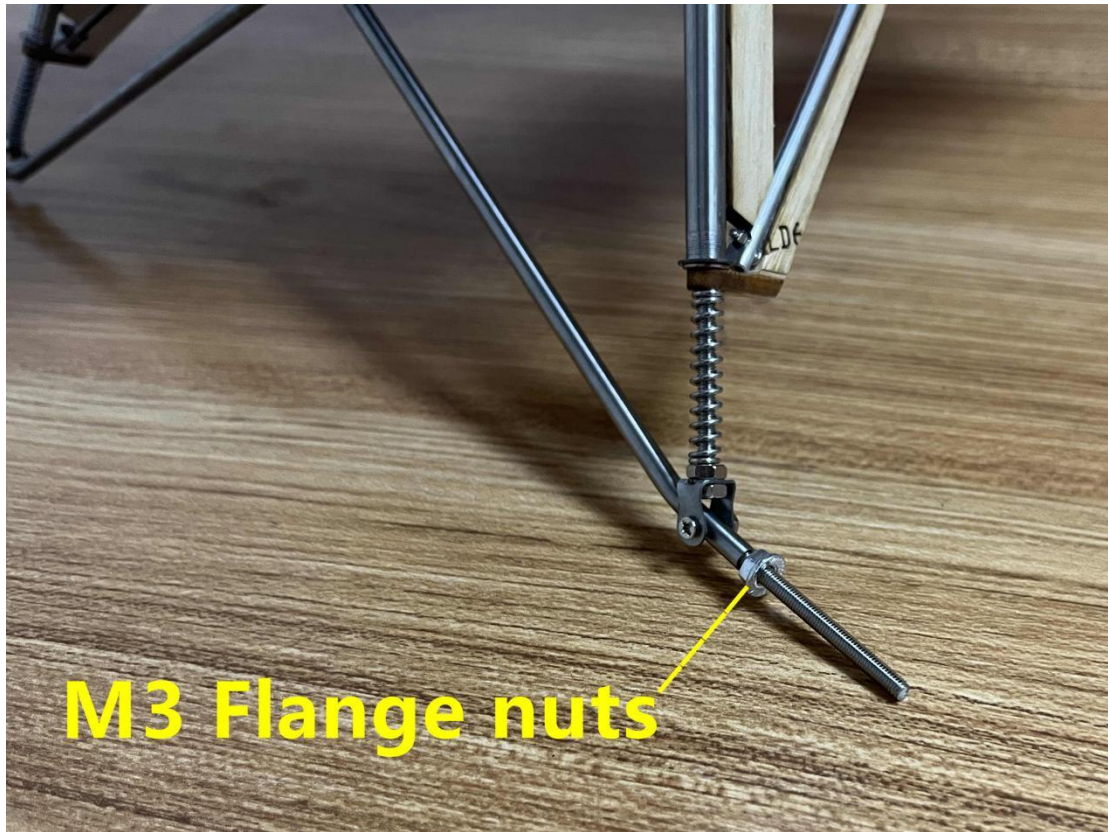
Step15



Step16



Step17



Step18



6.ASSEMBLY-Cowl

Step1



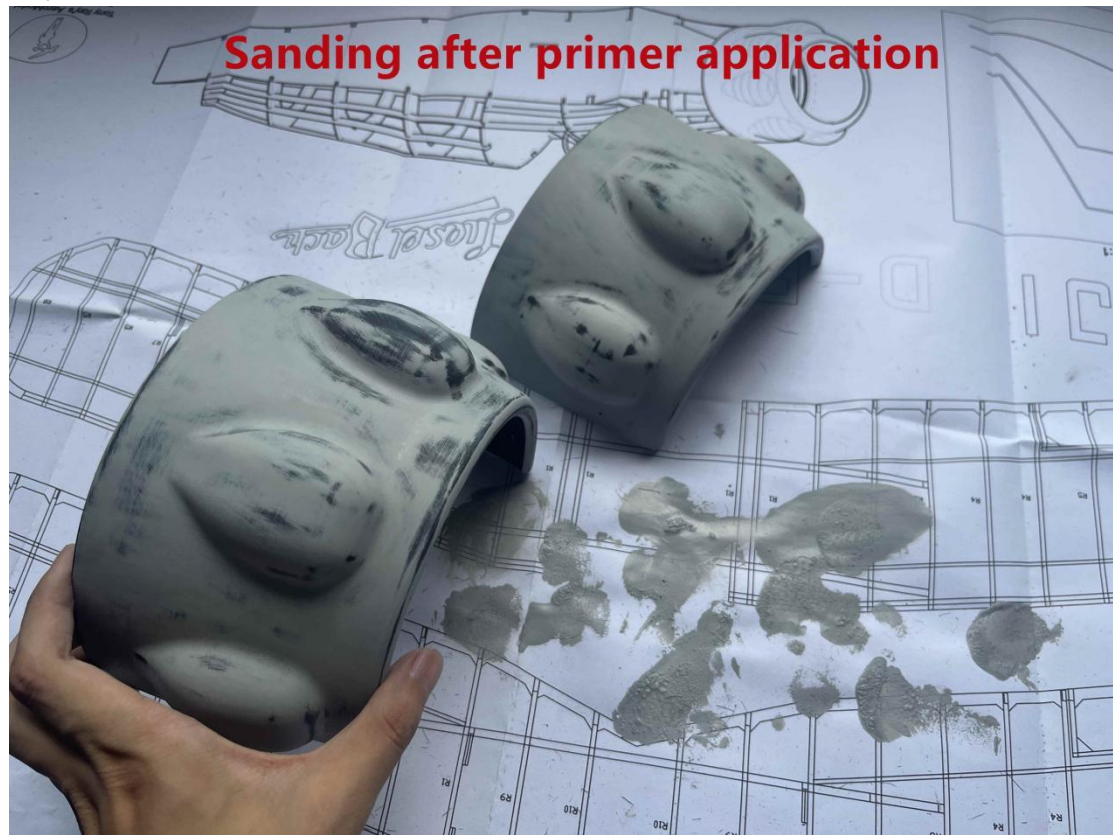
Step2



Step3



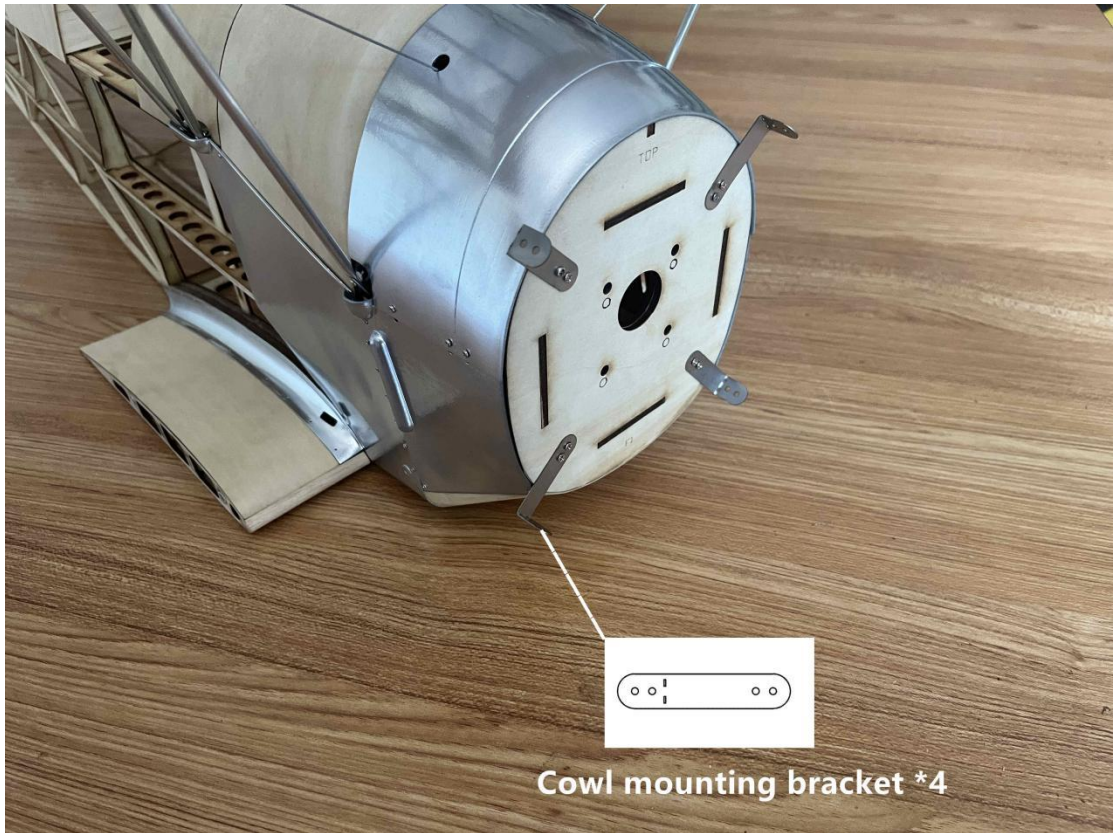
Step4



Step5

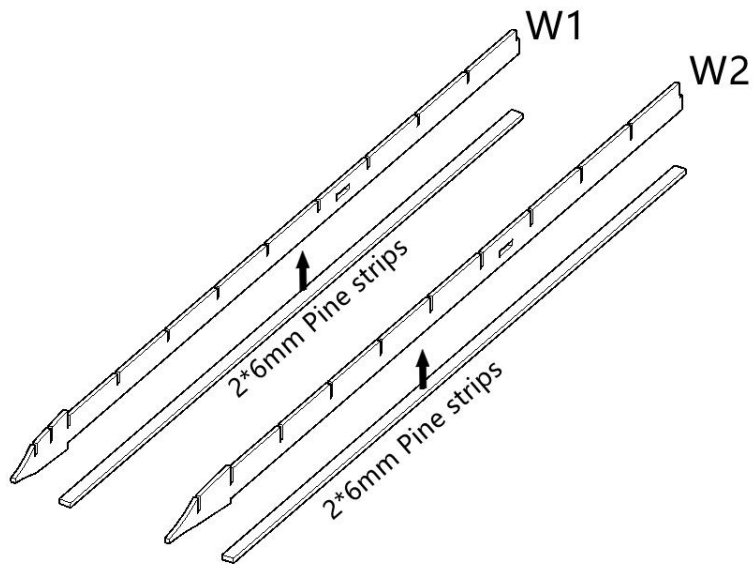


Step6

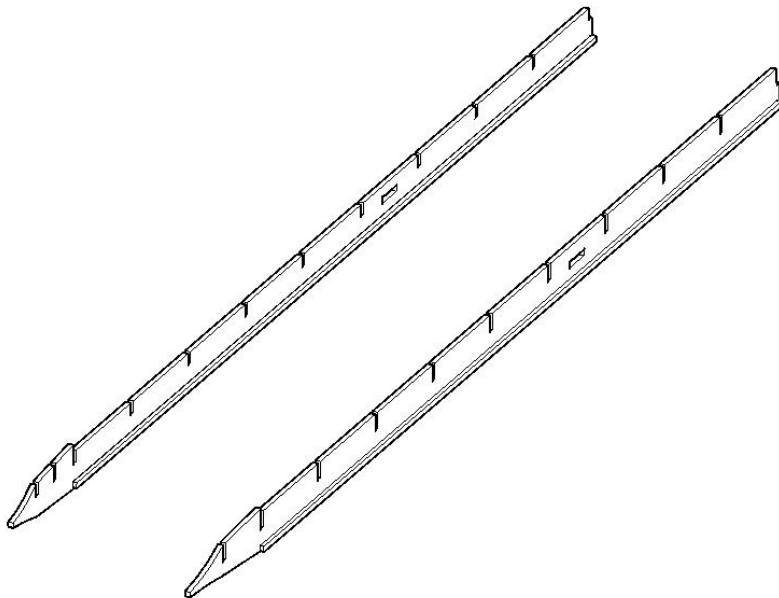


7.ASSEMBLY-**Bottom Wings**

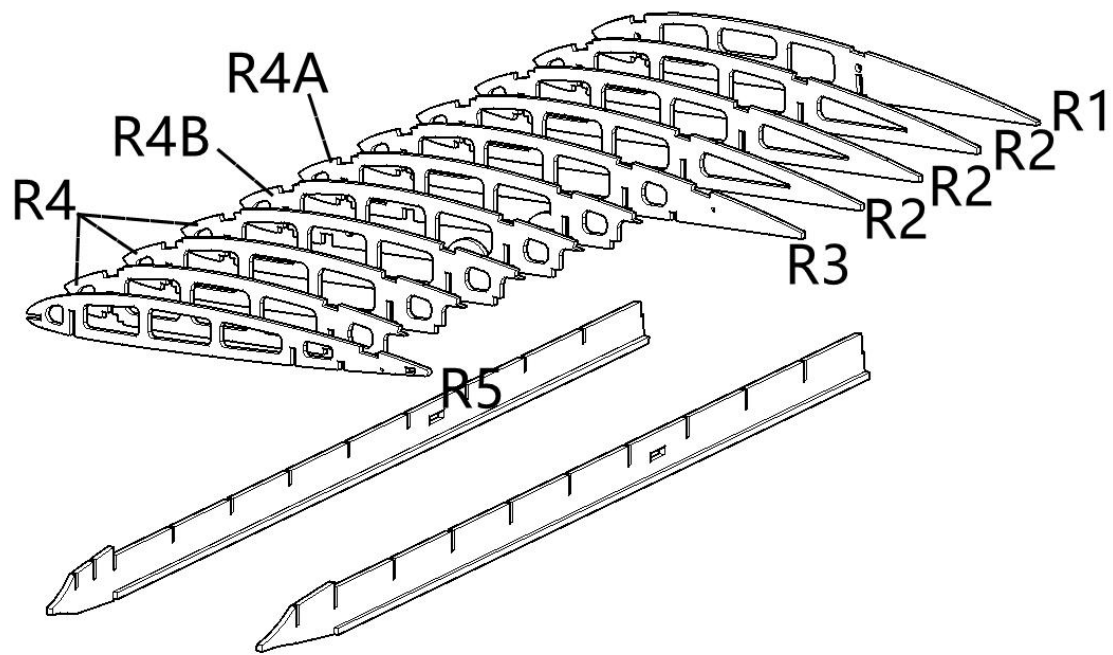
Step1



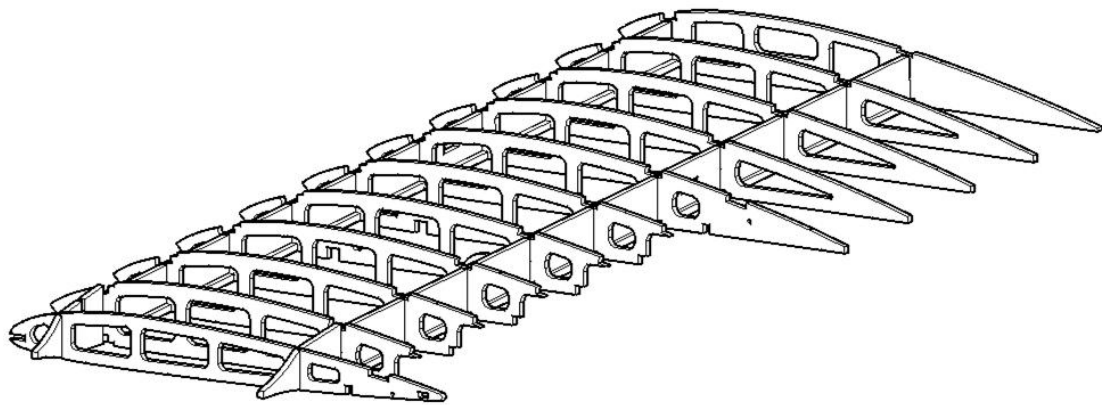
Step2



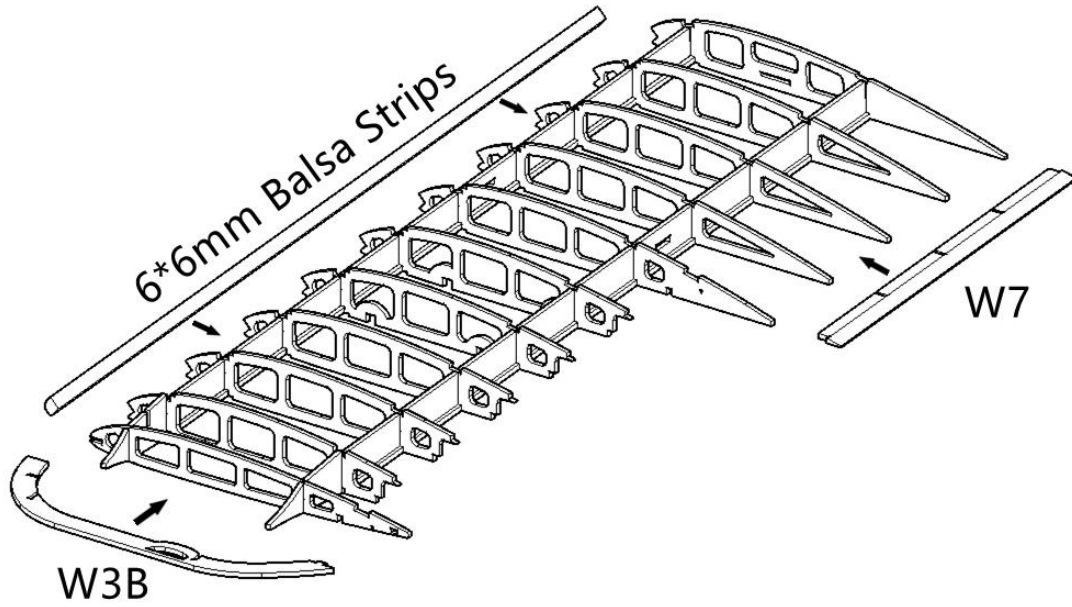
Step3



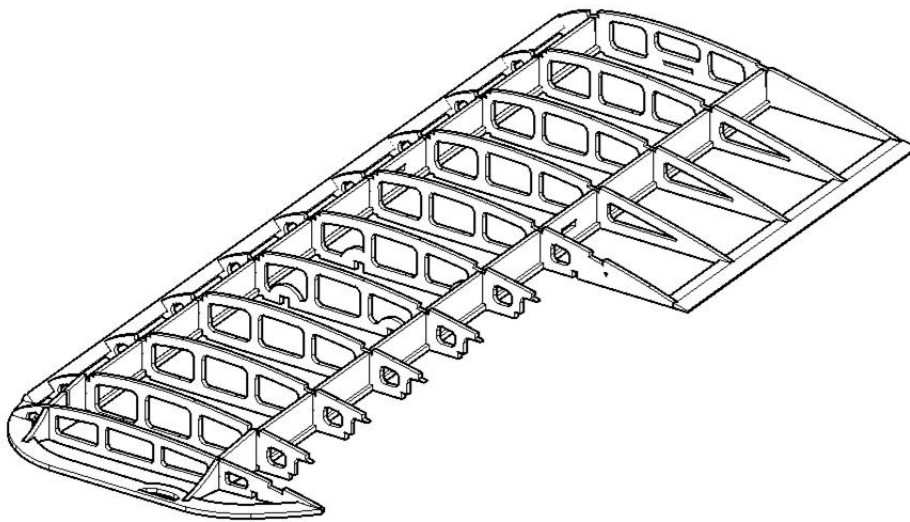
Step4



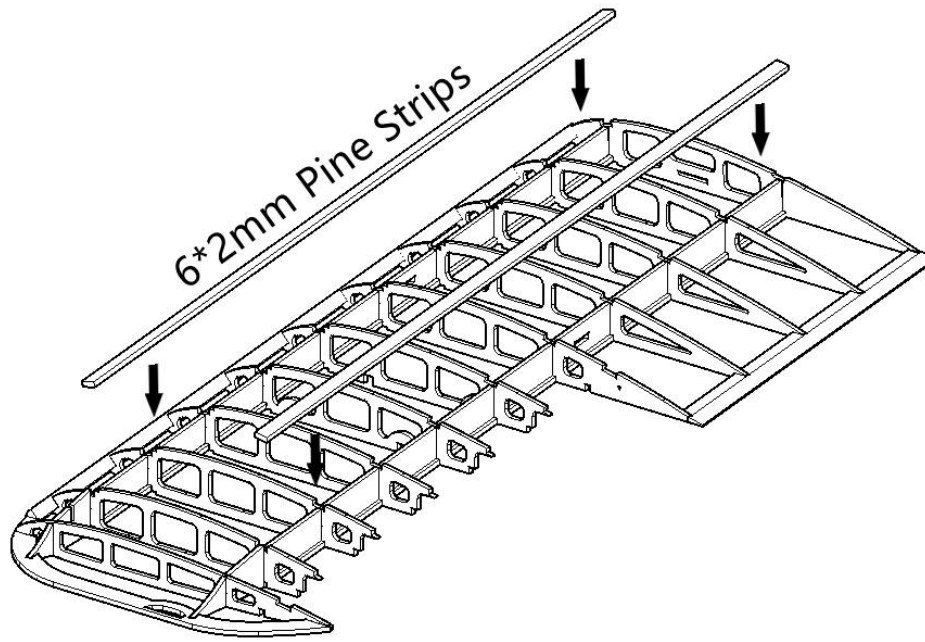
Step5



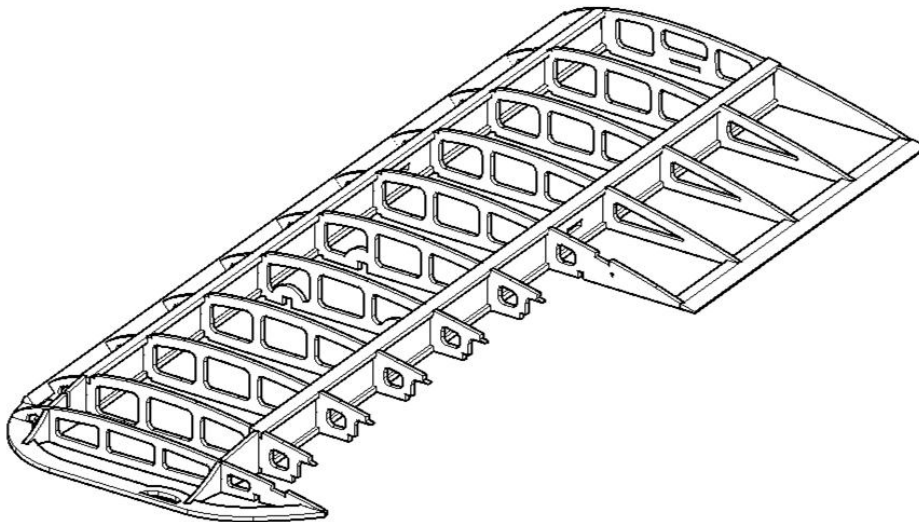
Step6



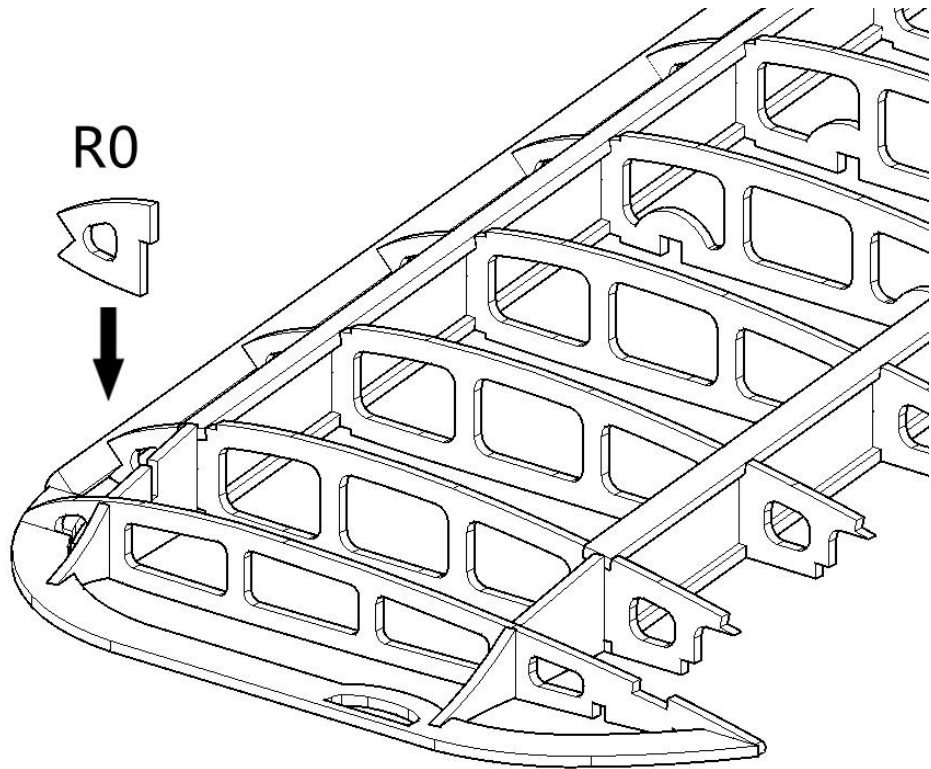
Step7



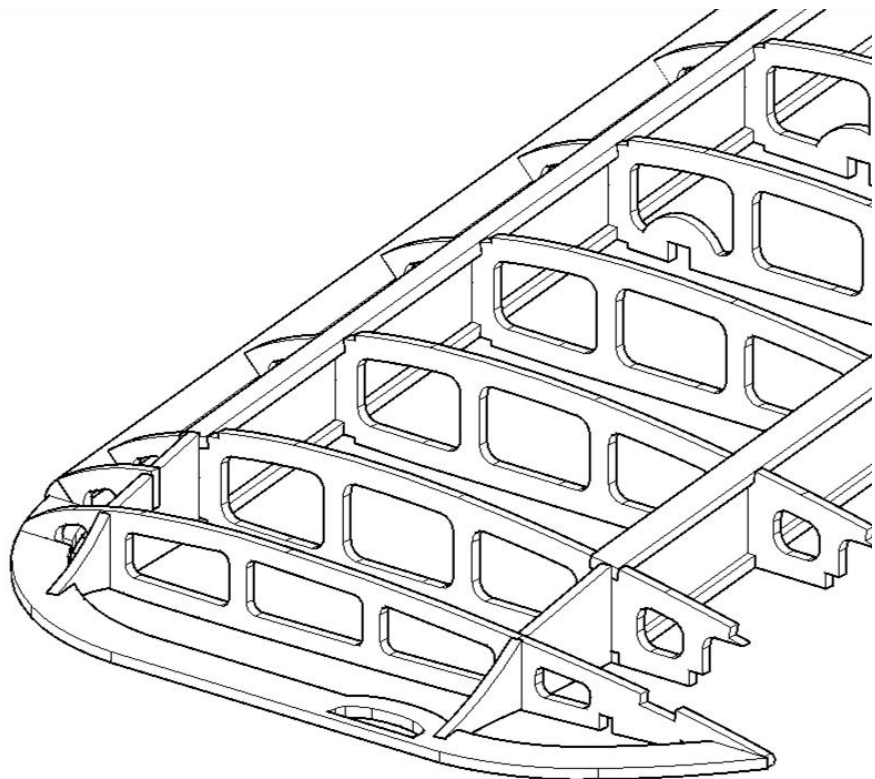
Step8



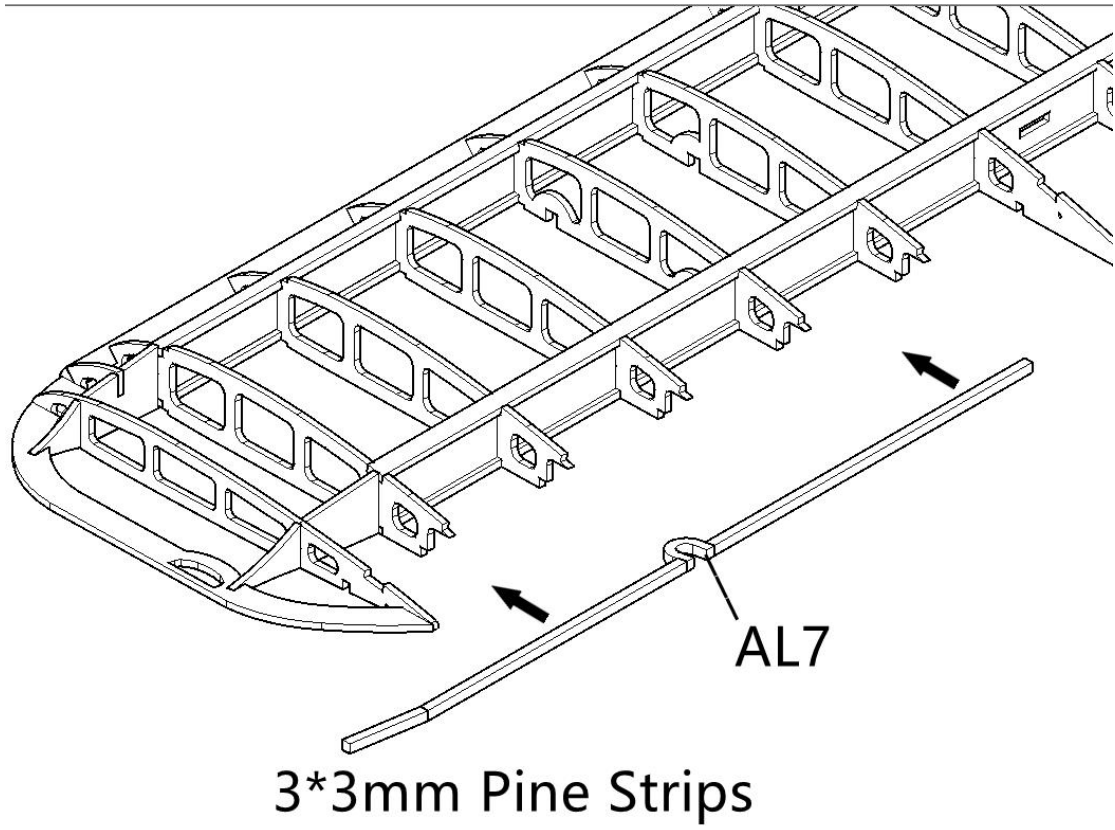
Step9



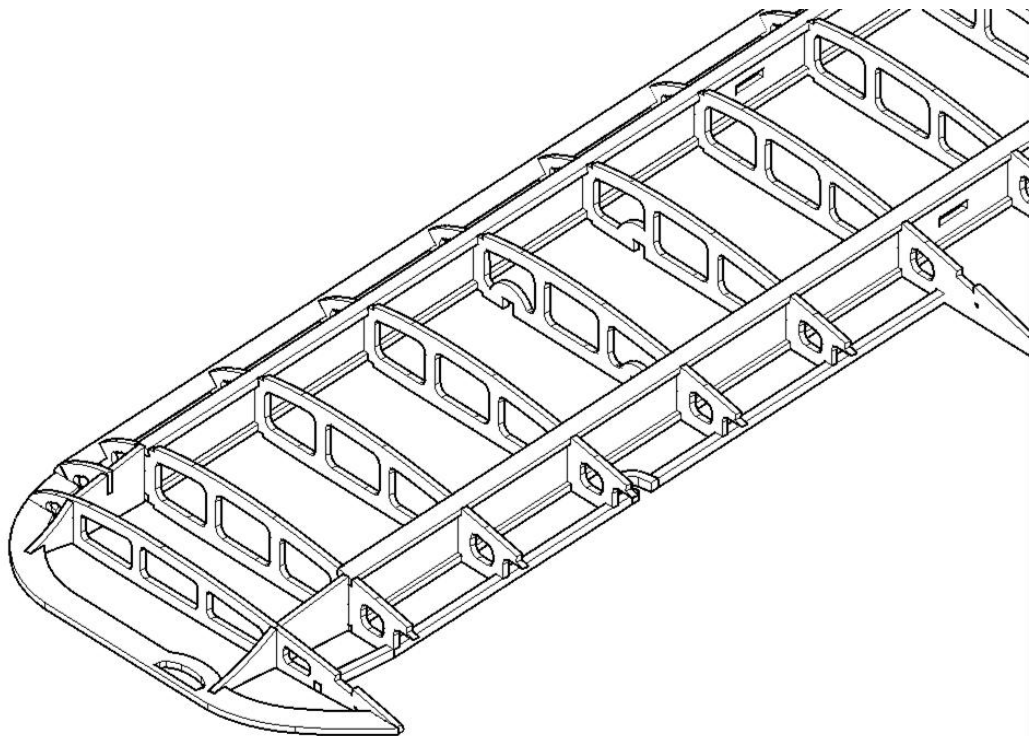
Step10



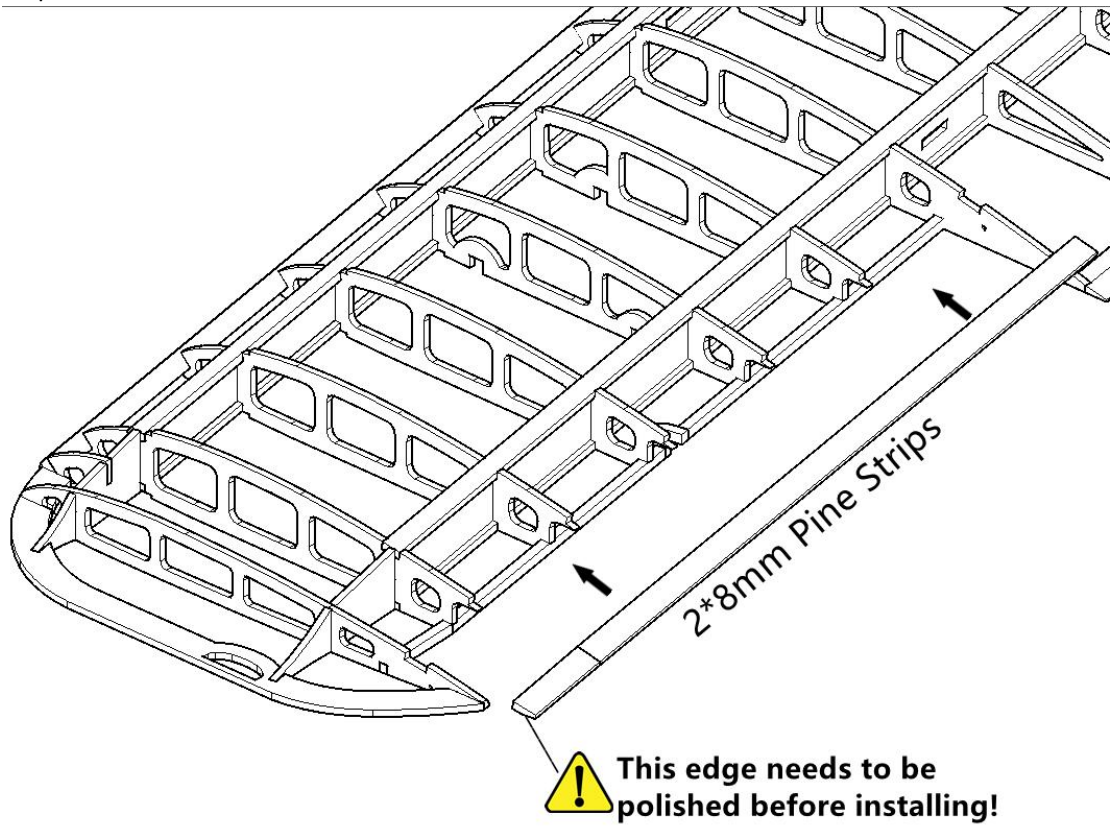
Step11



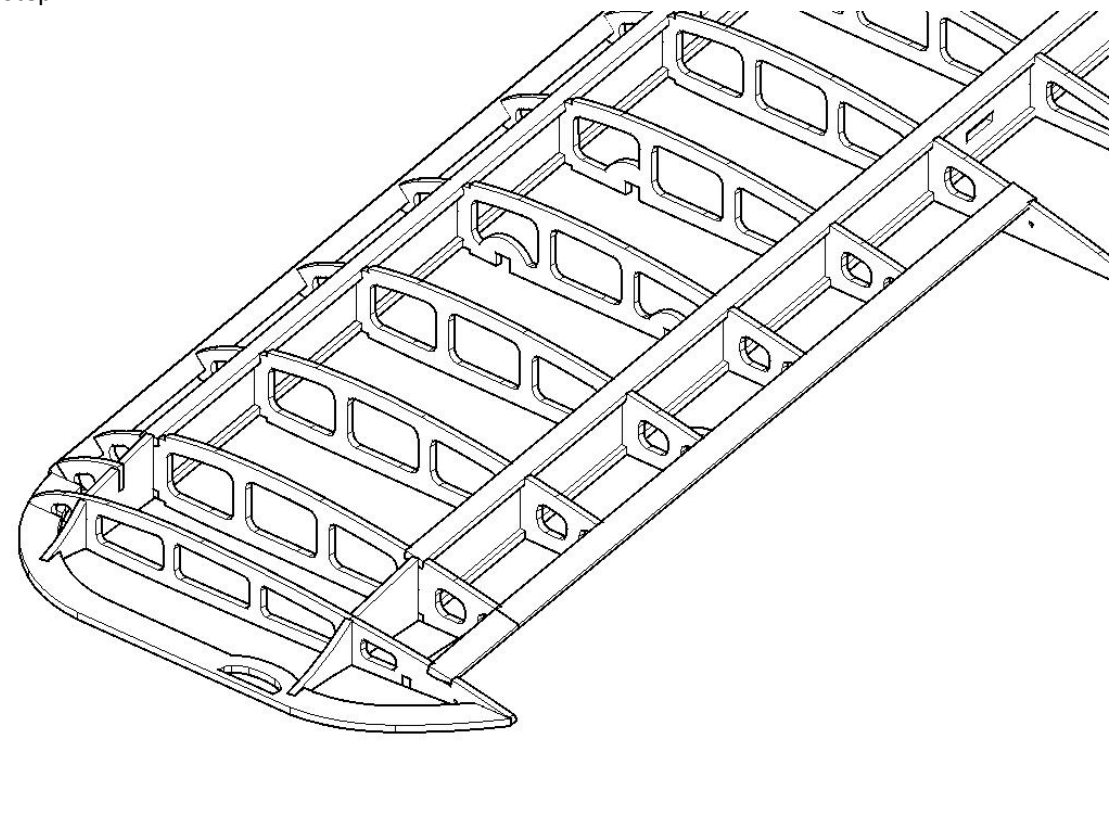
Step12



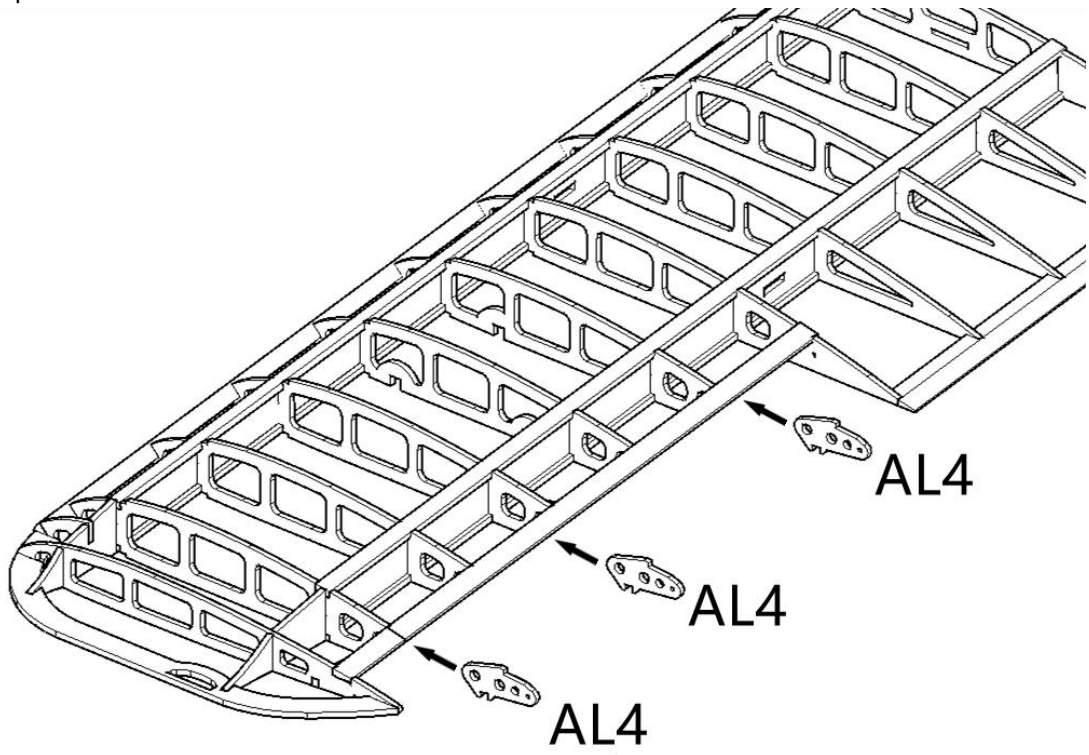
Step13



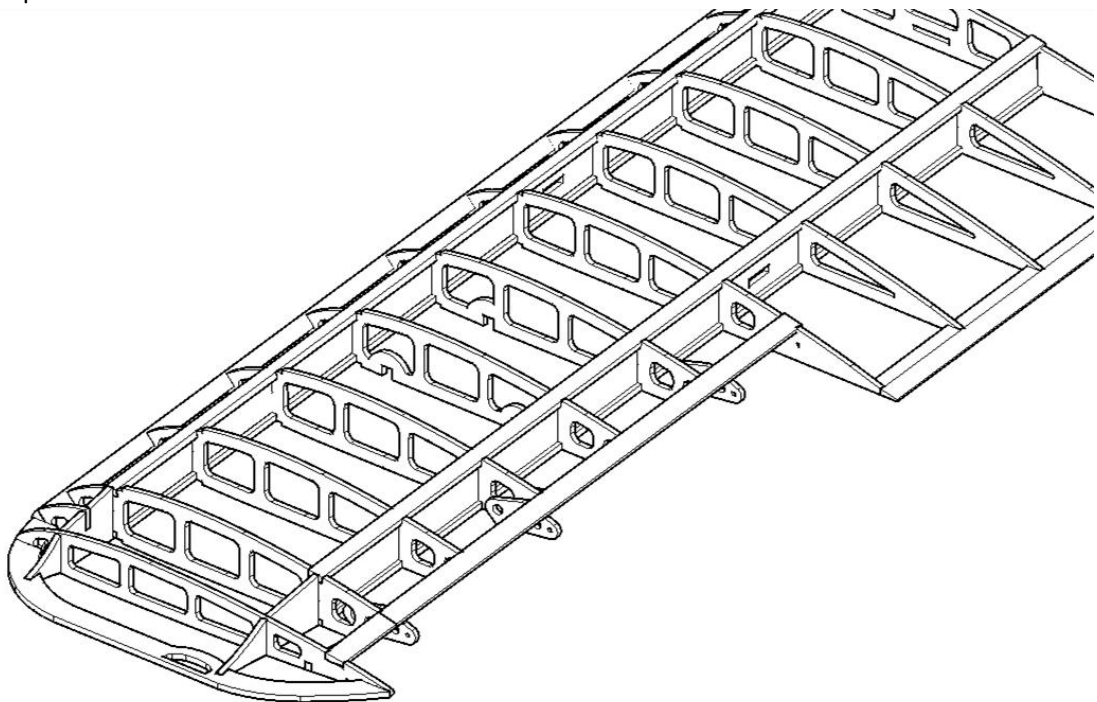
Step14



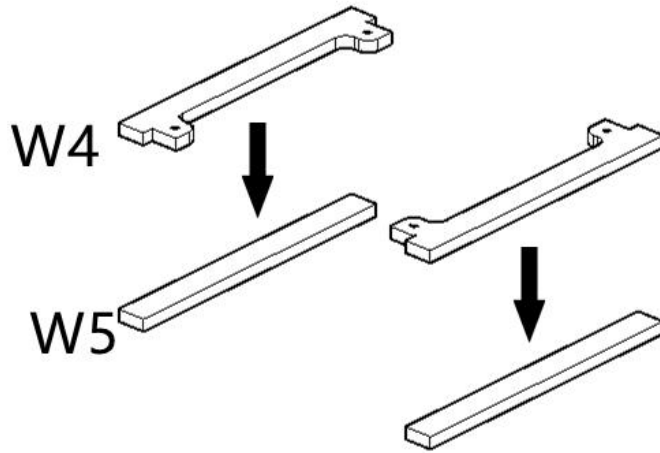
Step15



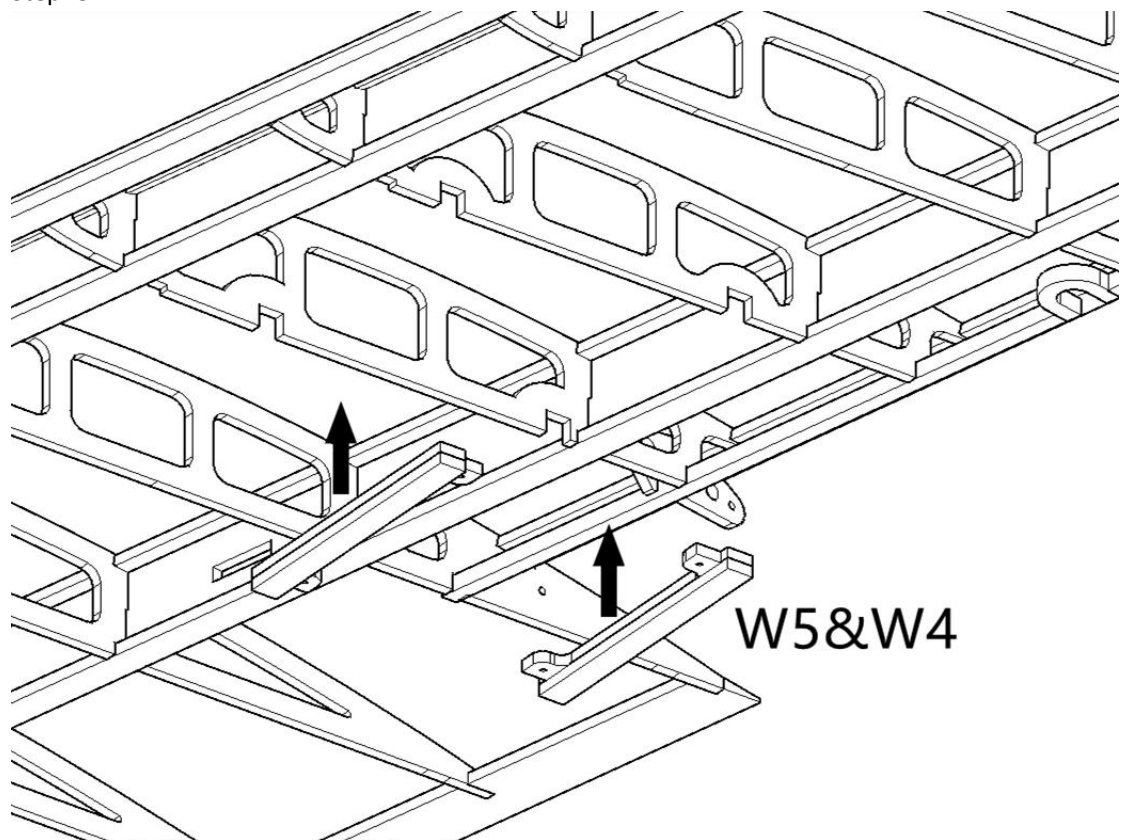
Step16



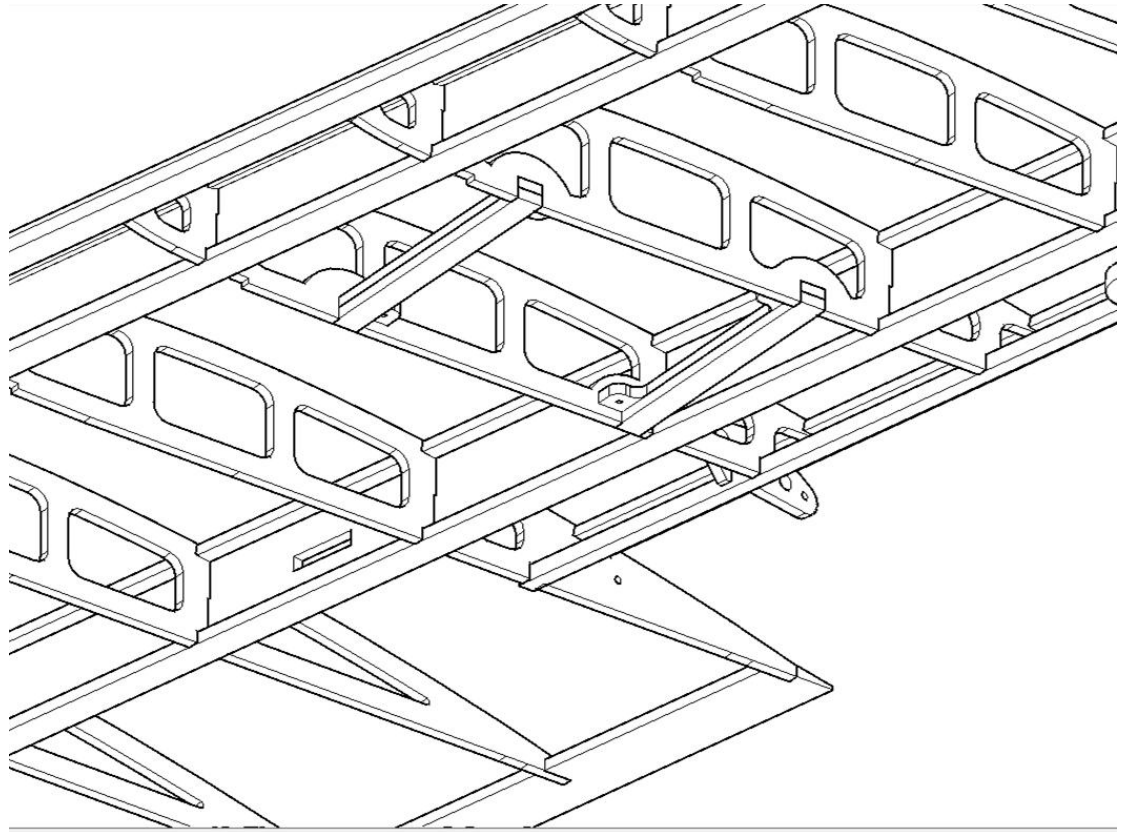
Step17



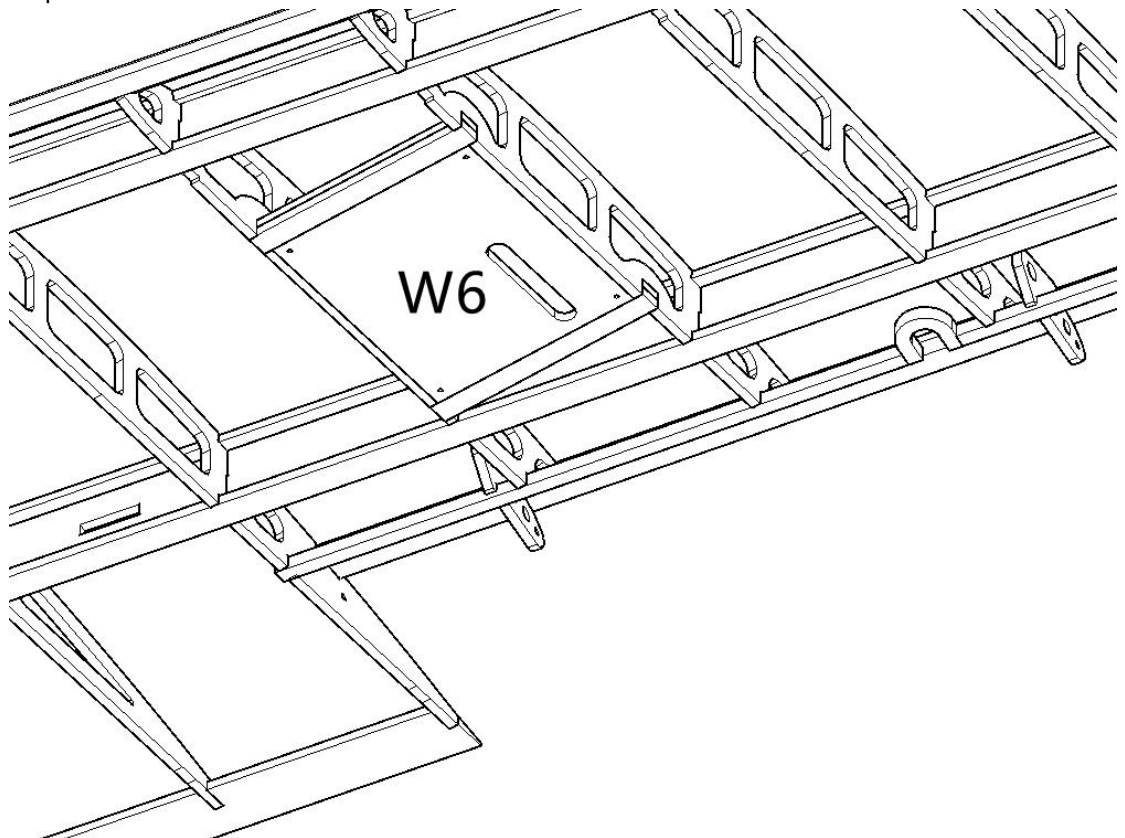
Step18



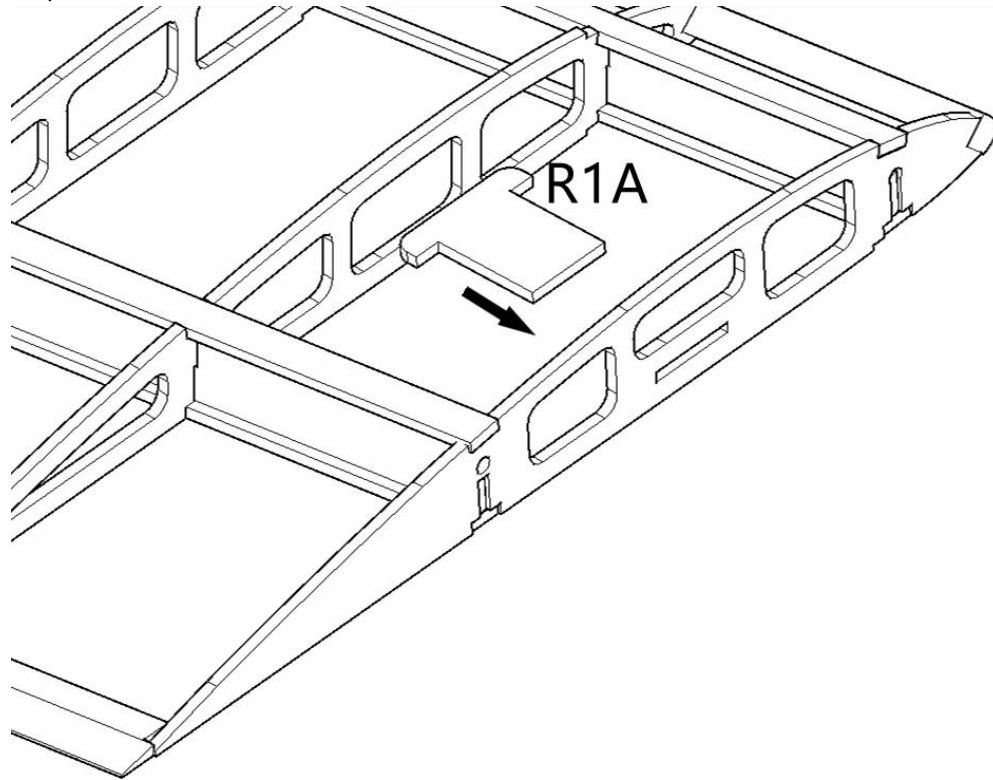
Step19



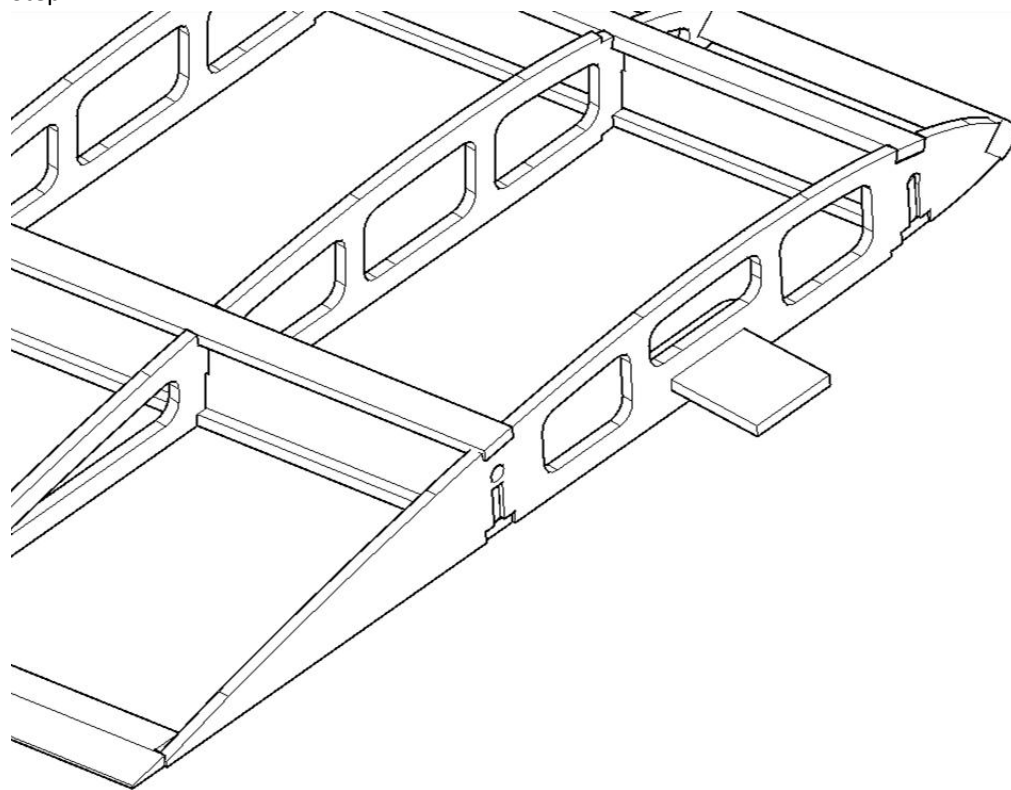
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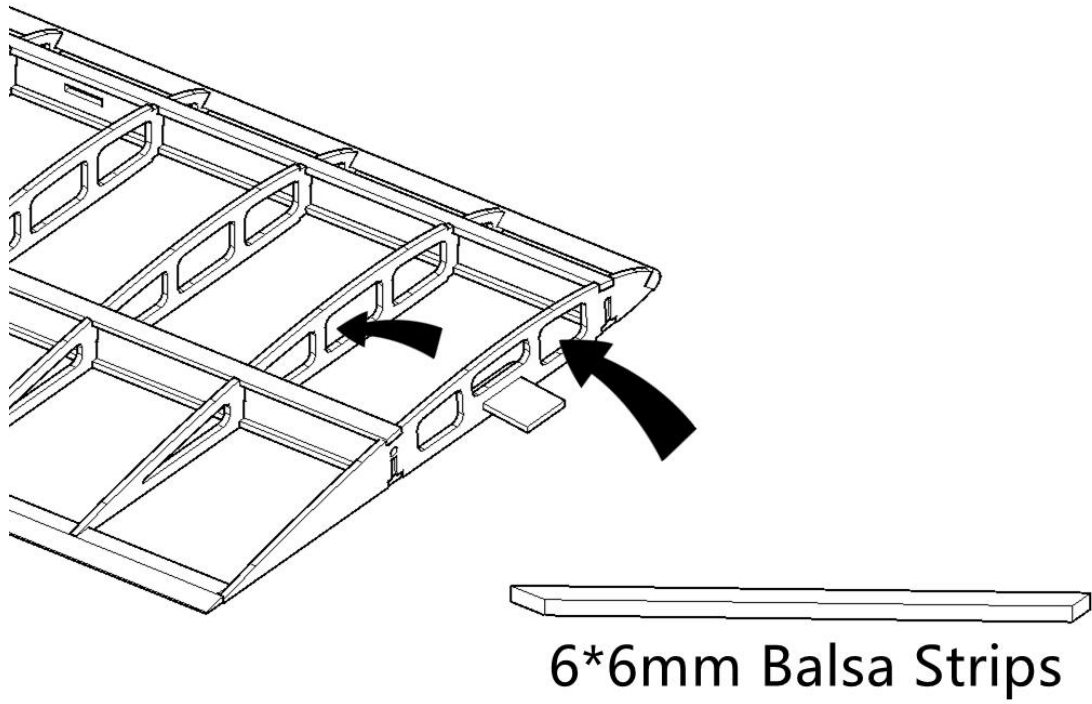
Step21



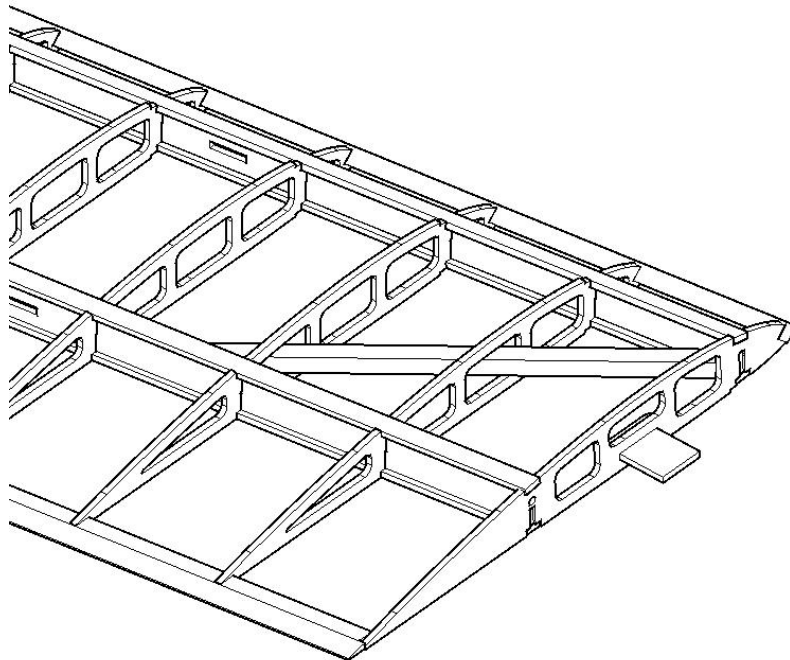
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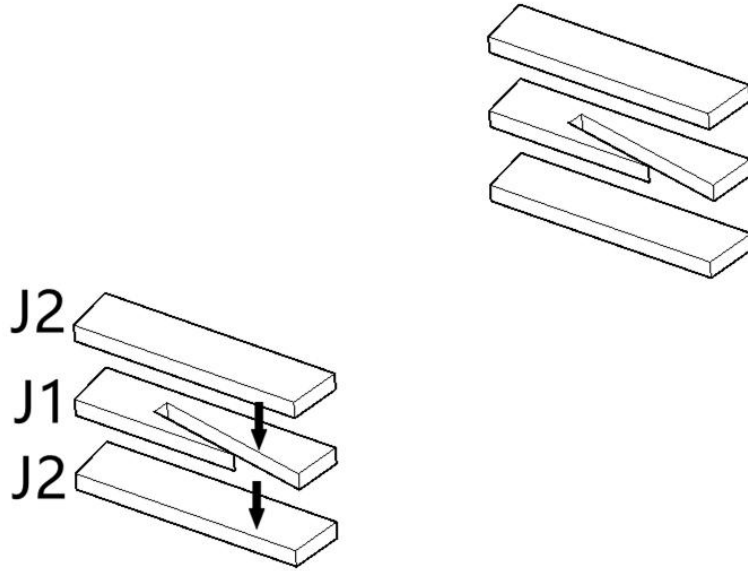
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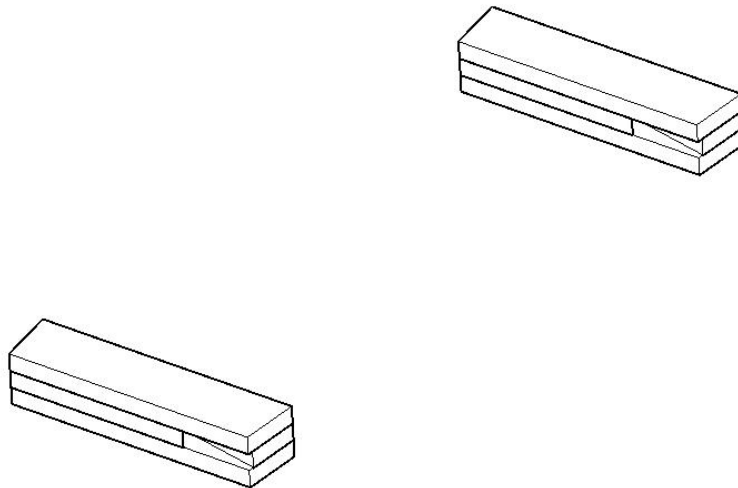
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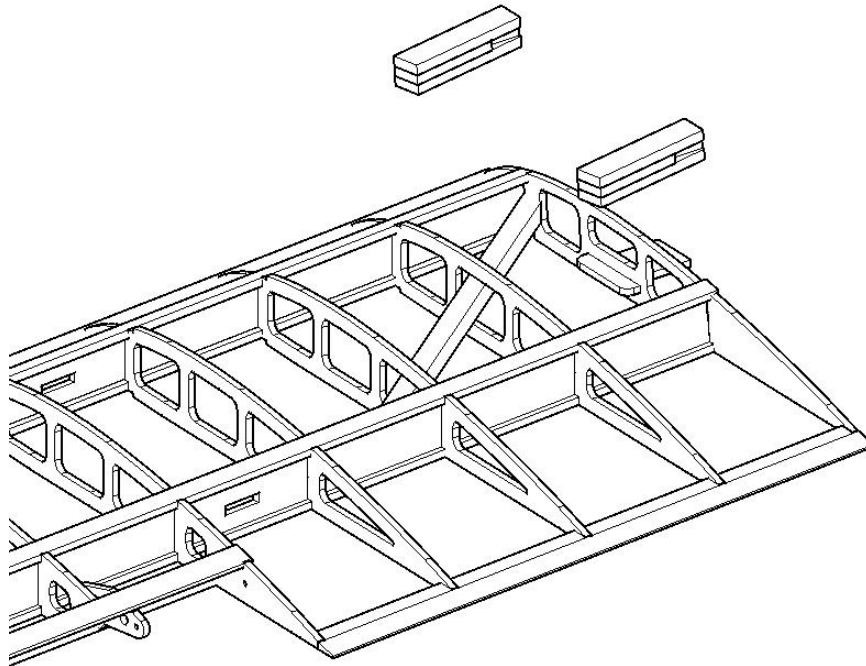
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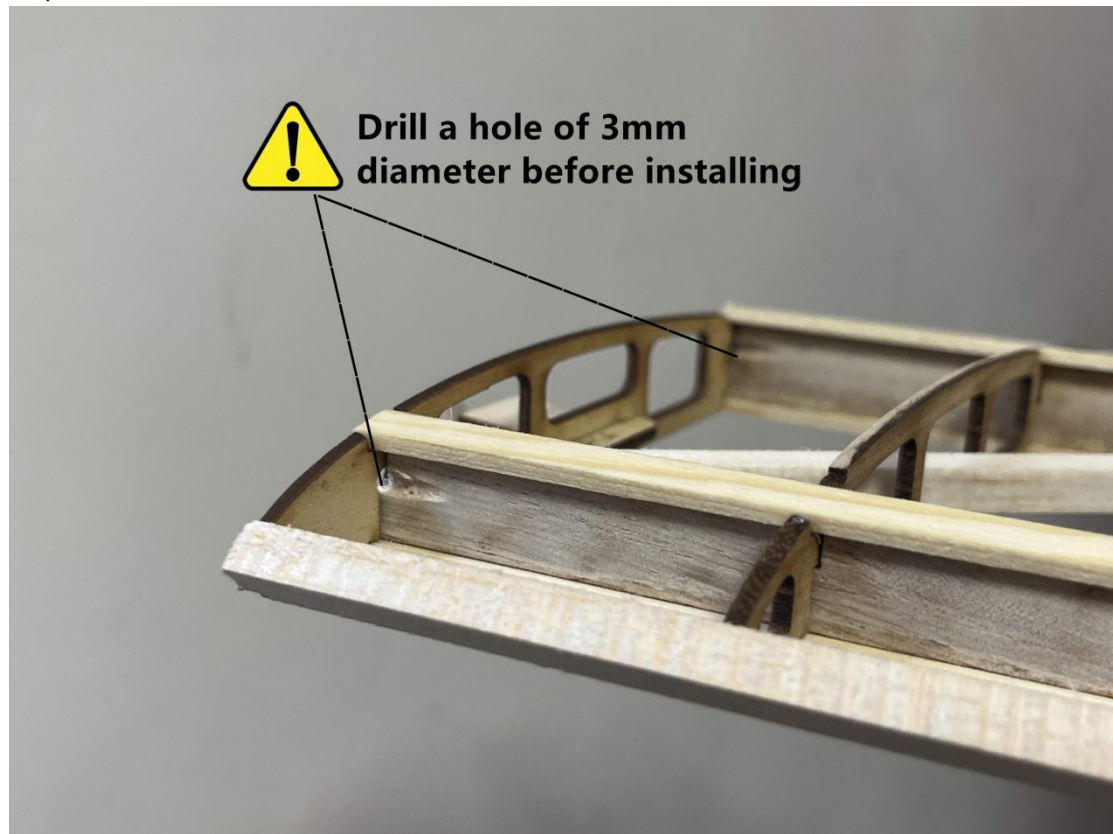
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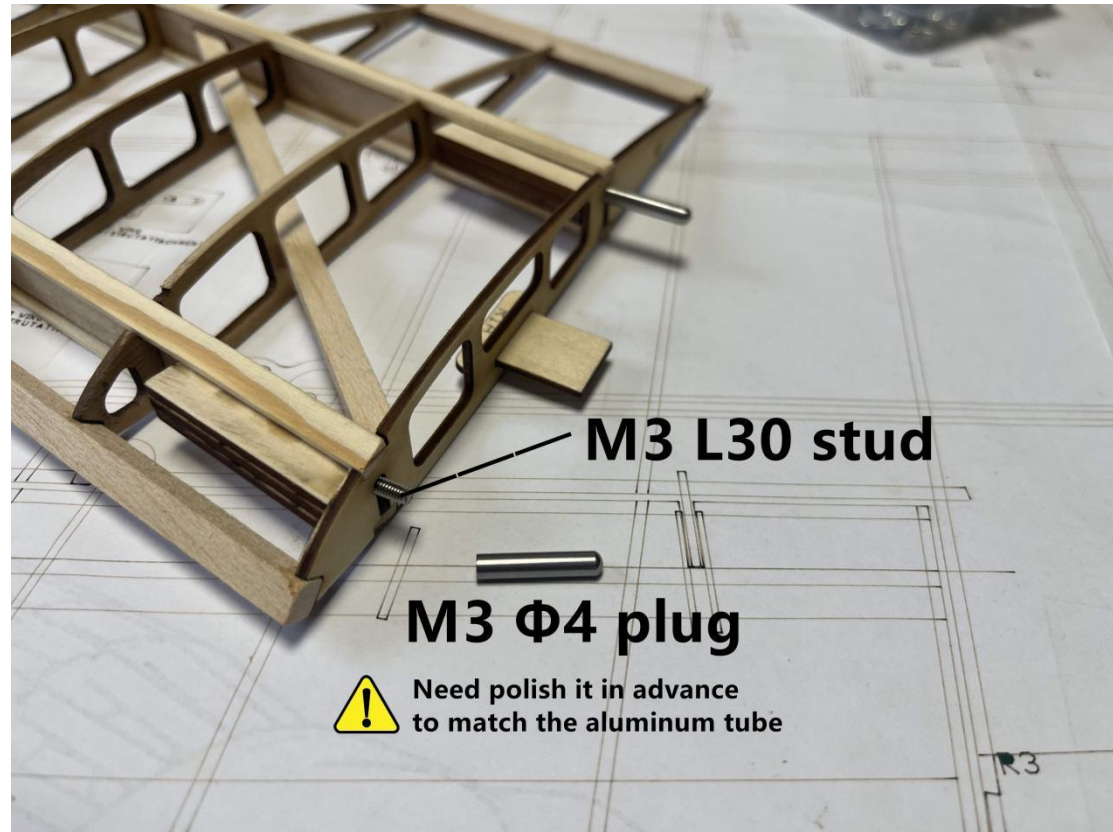
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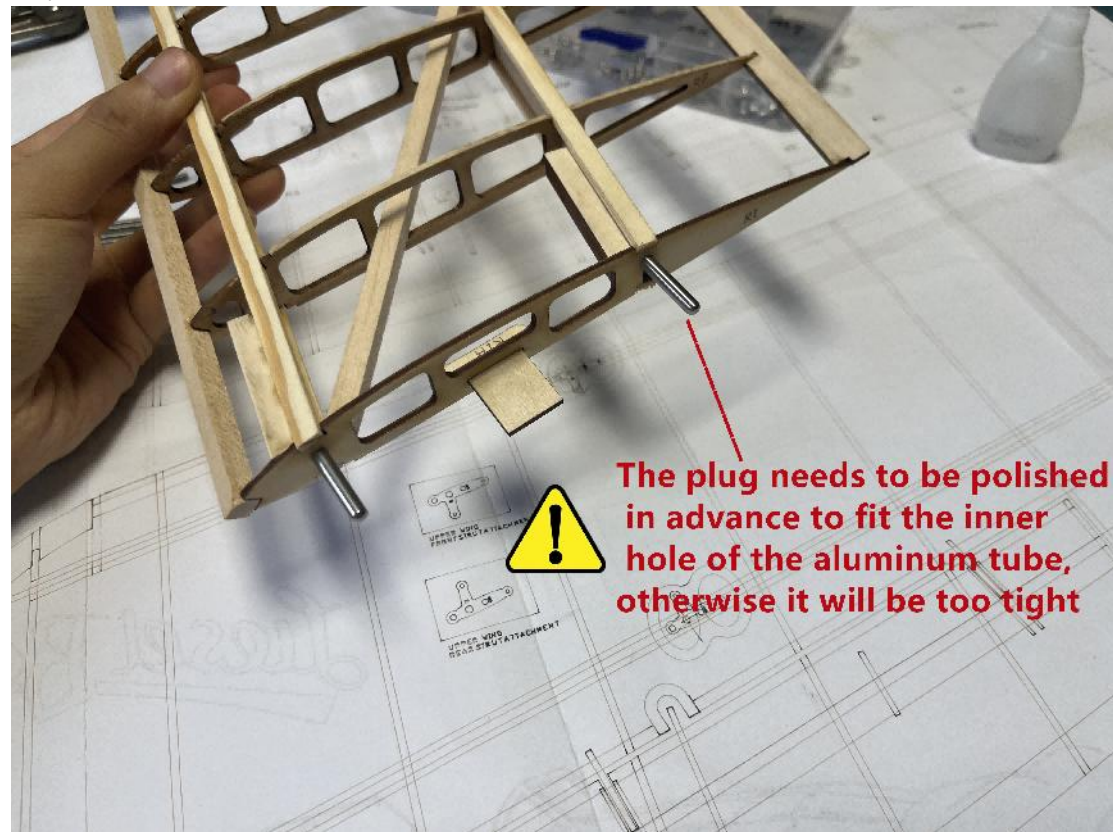
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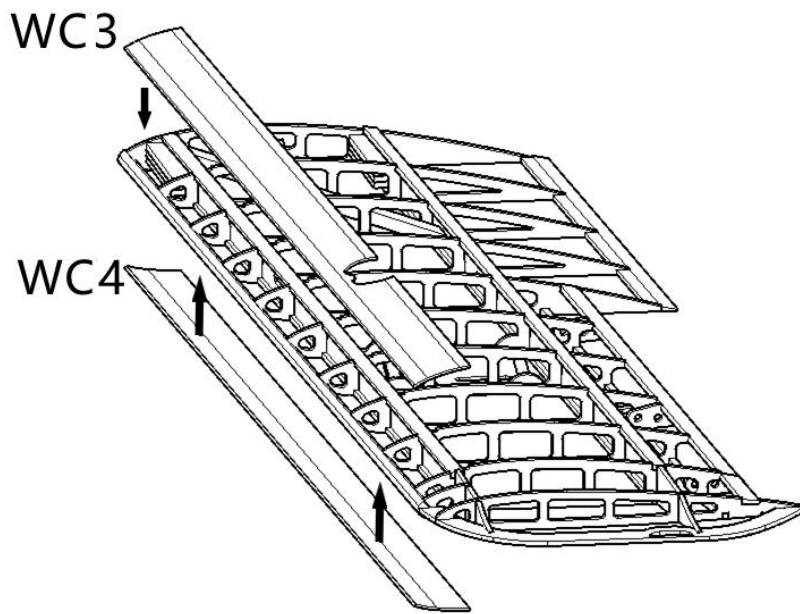
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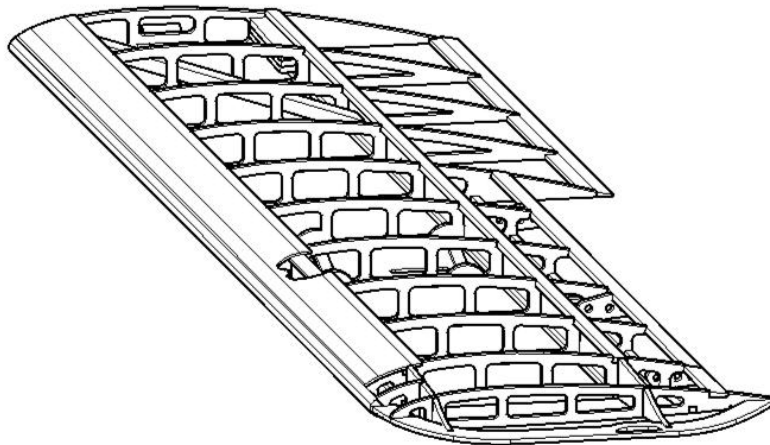
Step30



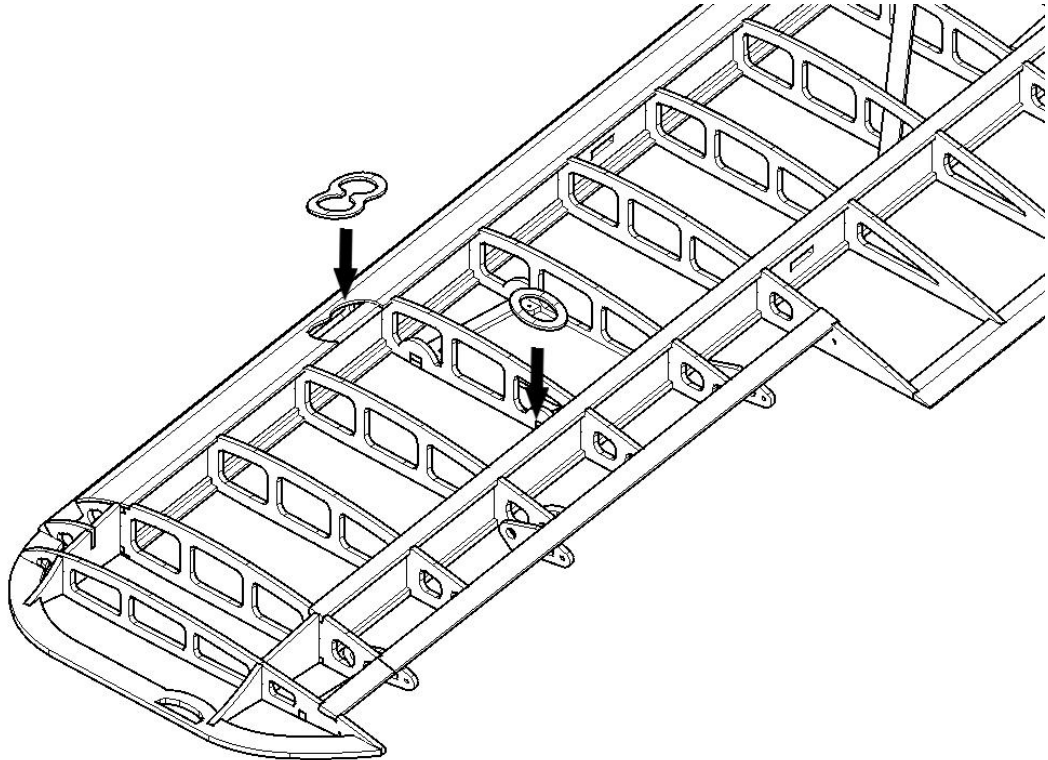
Step31



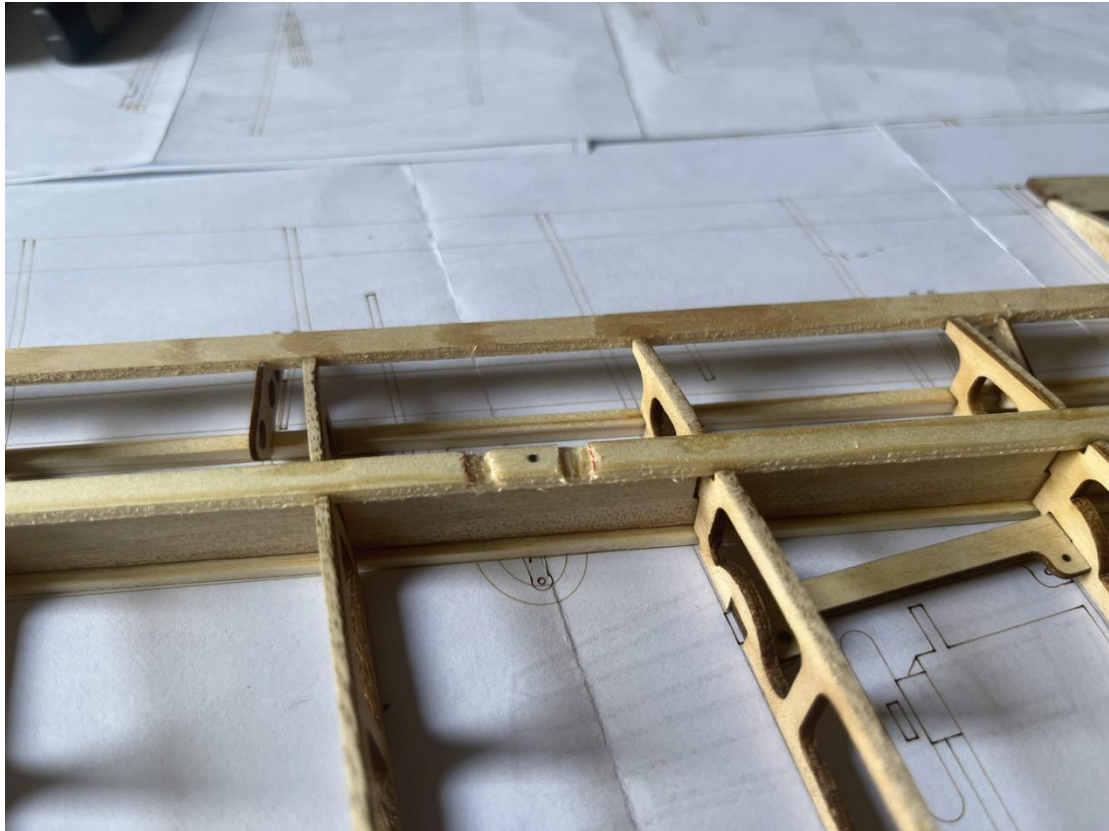
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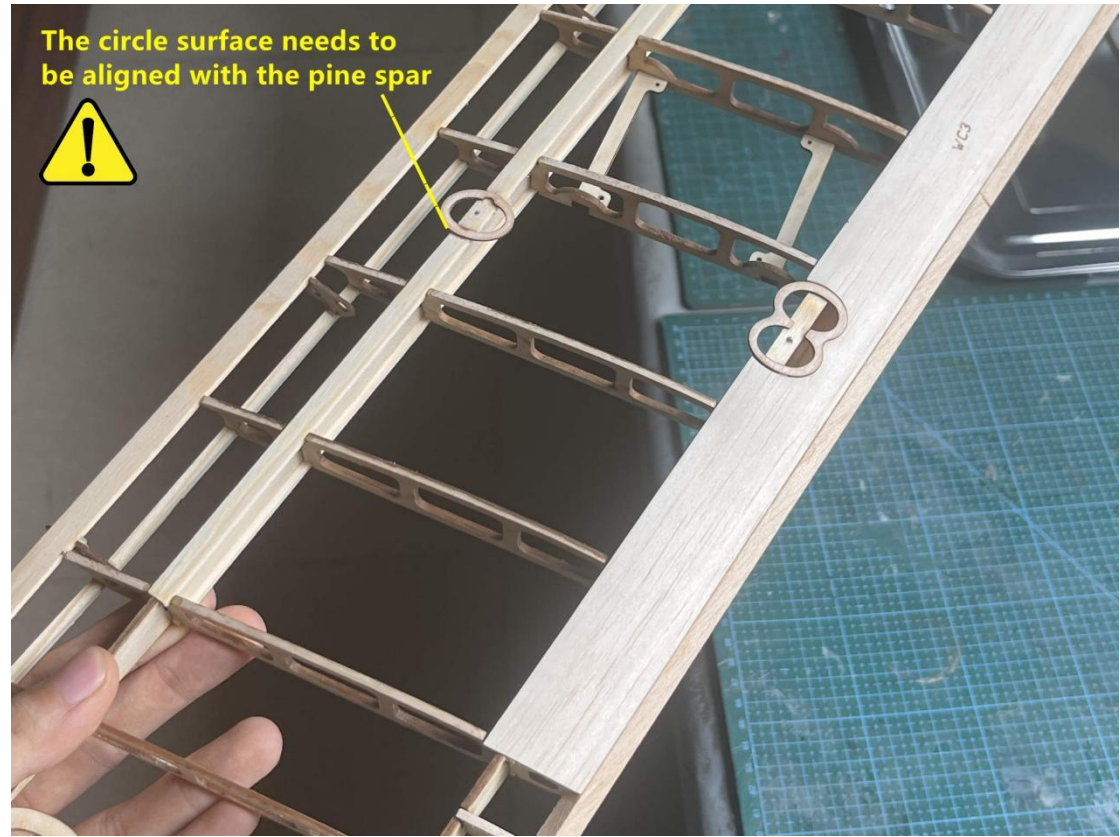
Step33



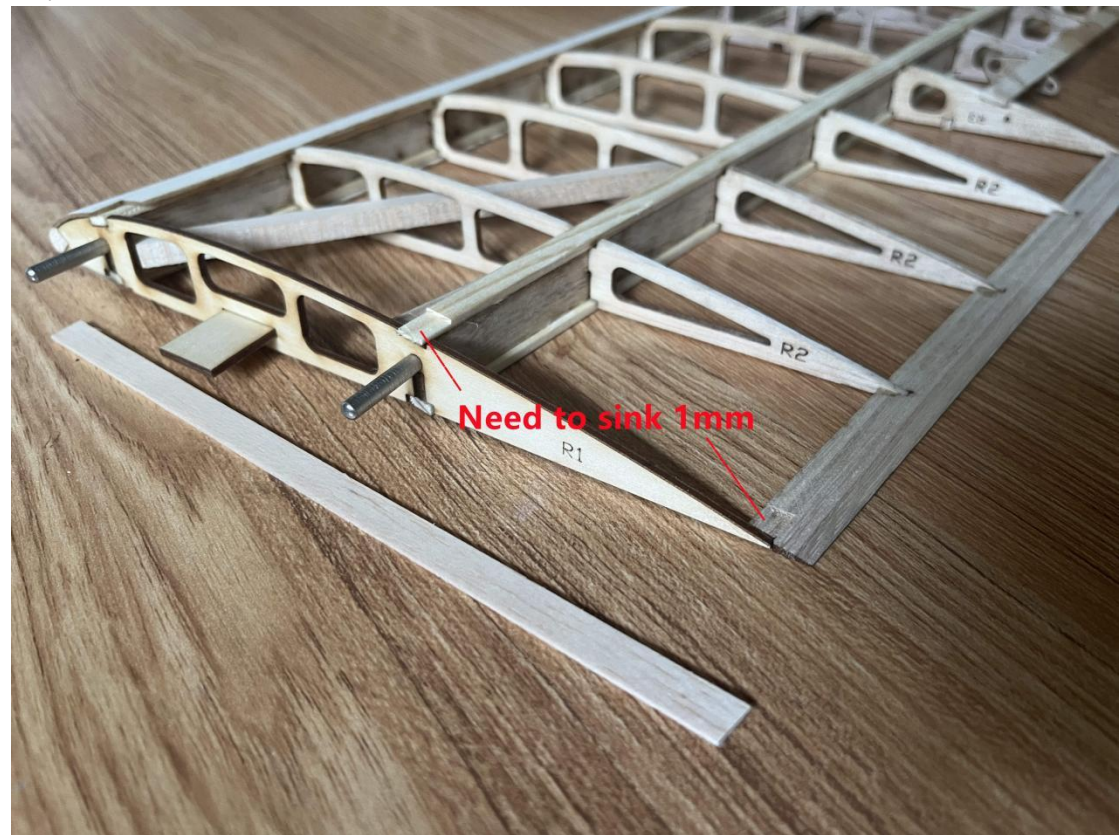
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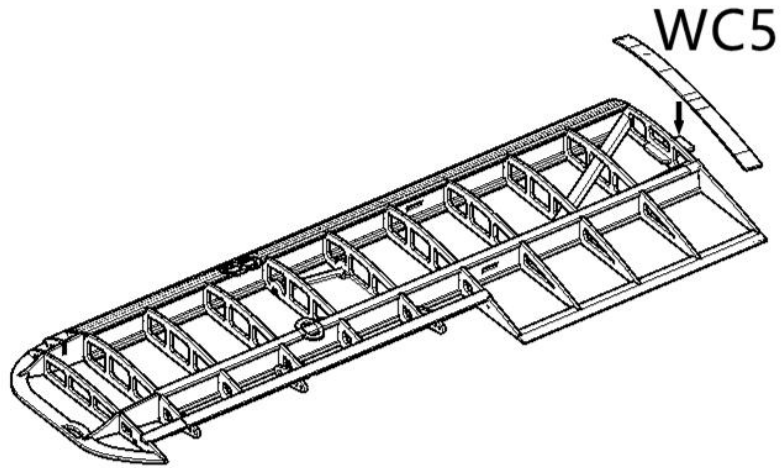
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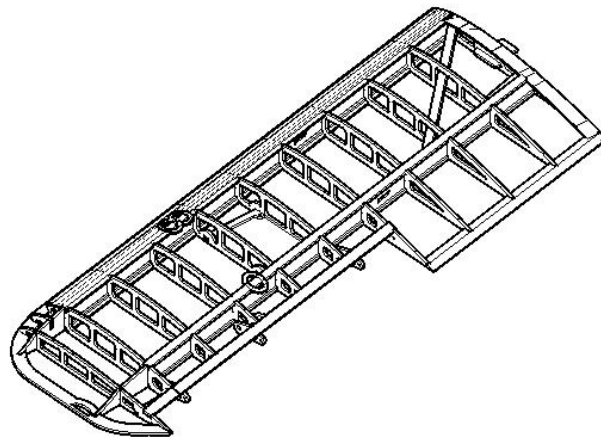
Step36



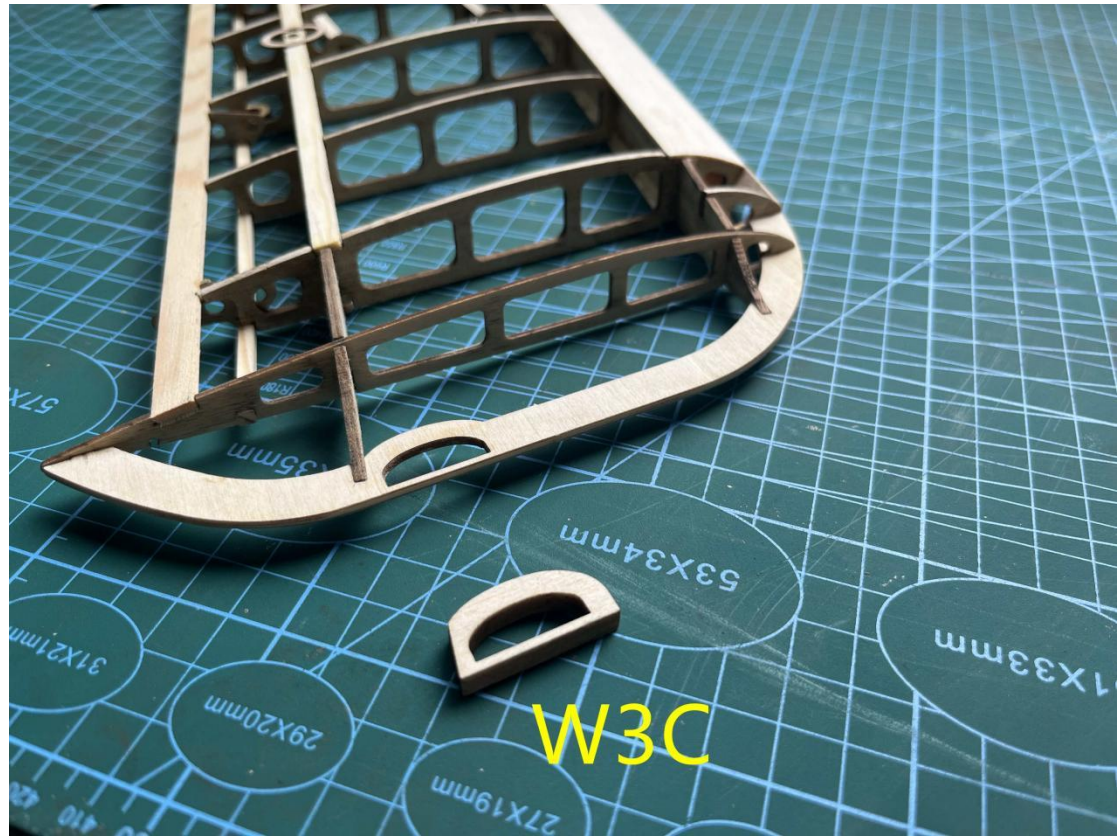
Step37



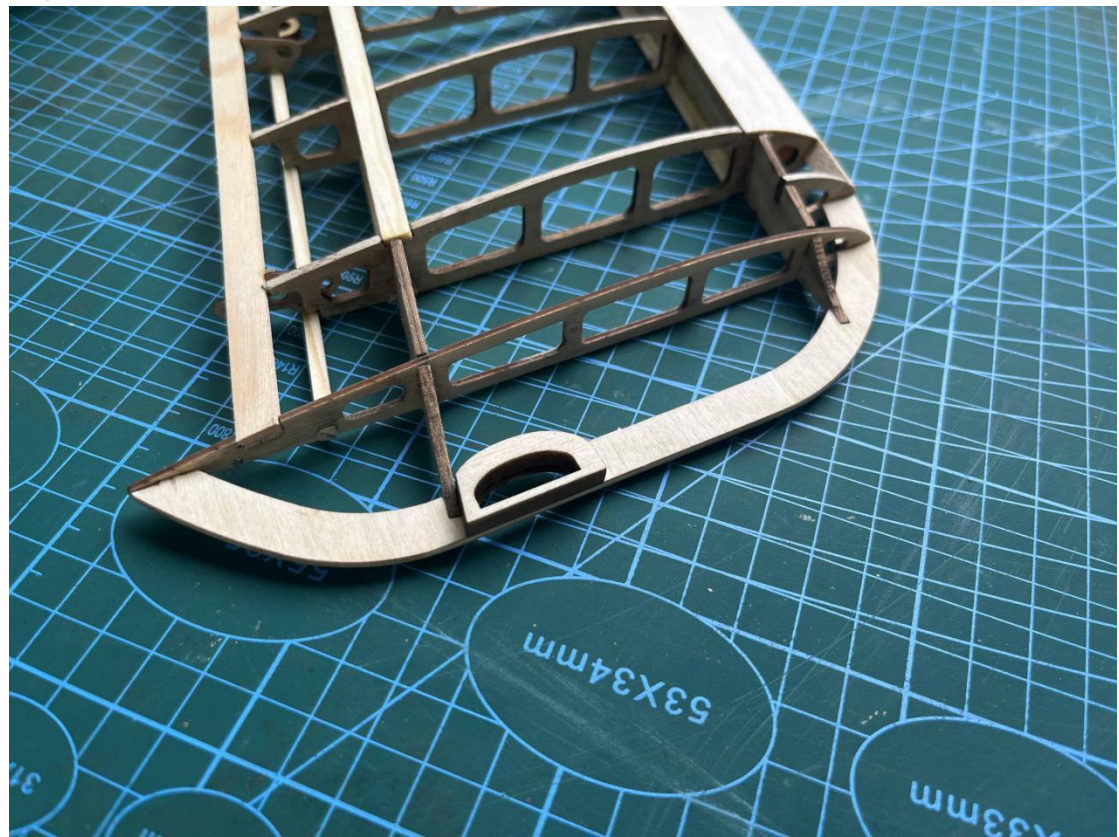
Step38



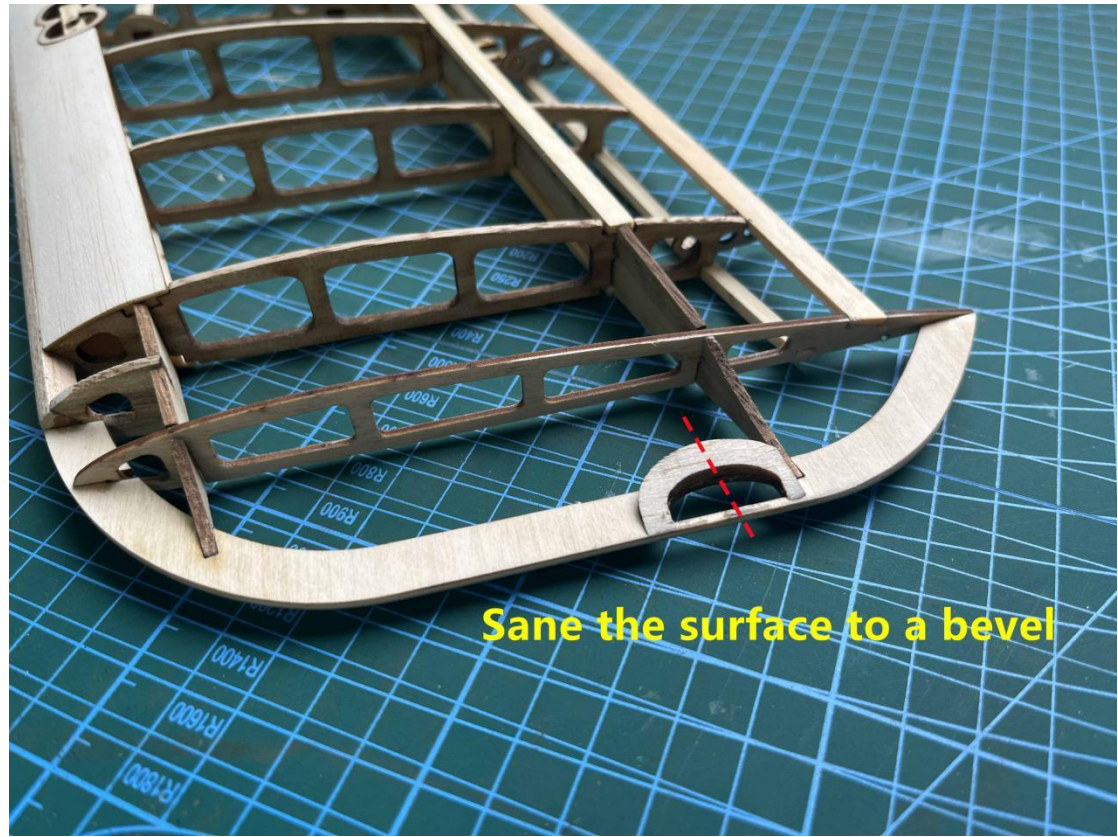
Step39



Step40



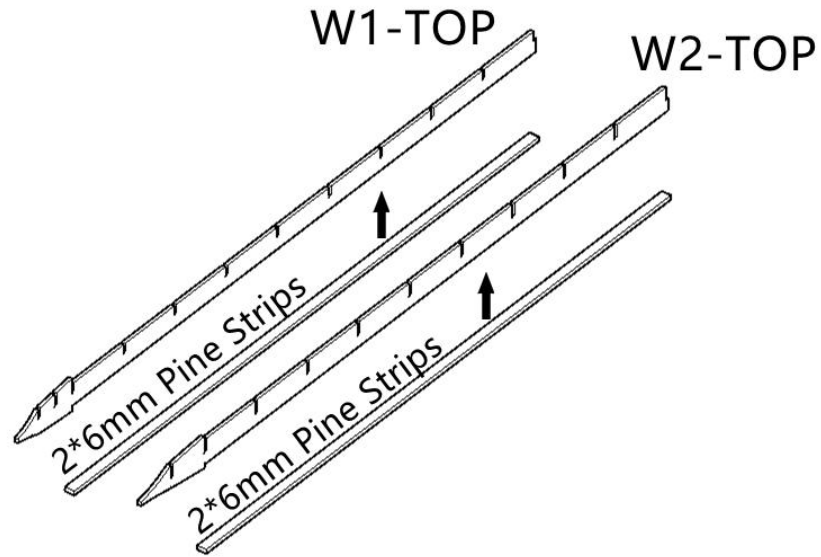
Step41



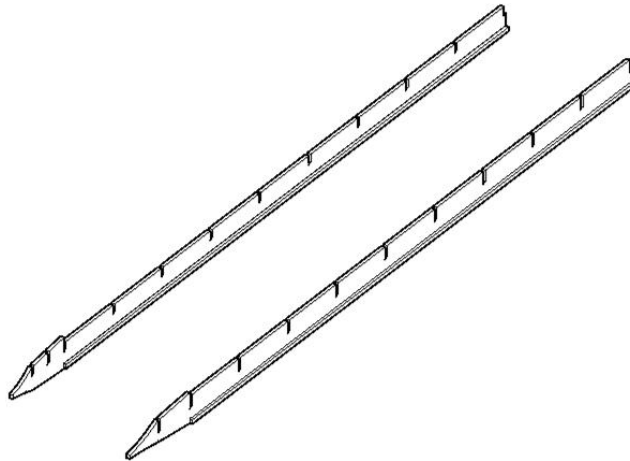
Builder's Note:

8.ASSEMBLY-Top Wings

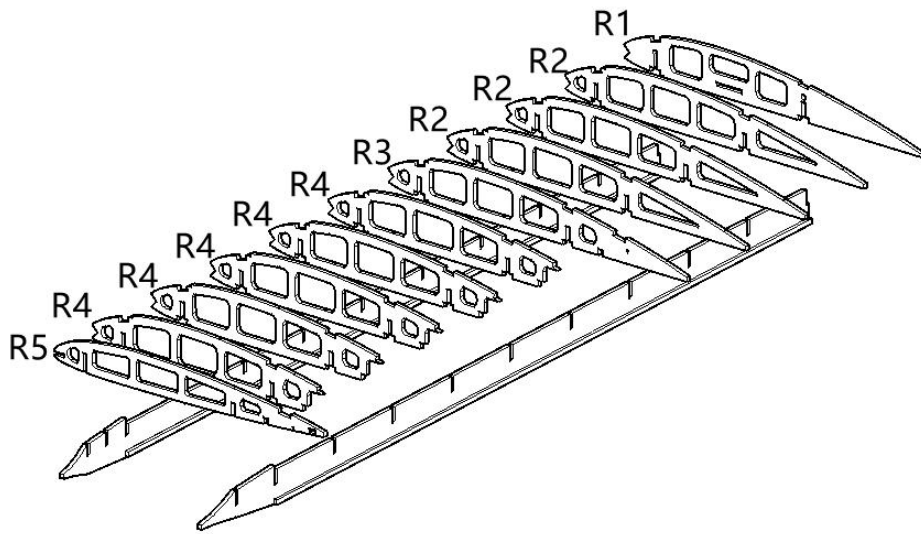
Step1



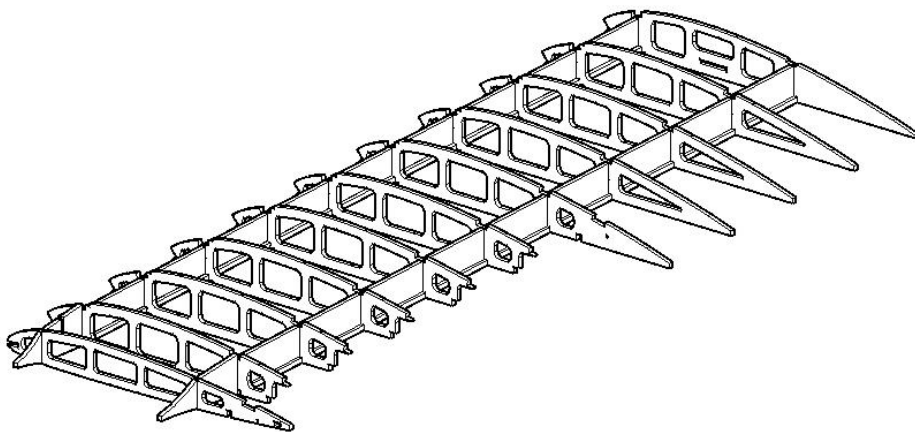
Step2



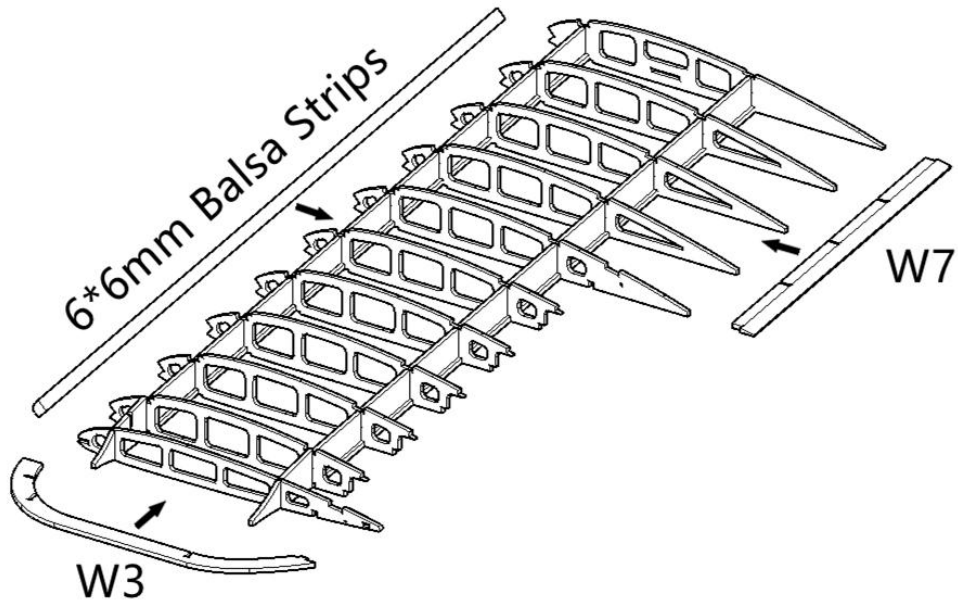
Step3



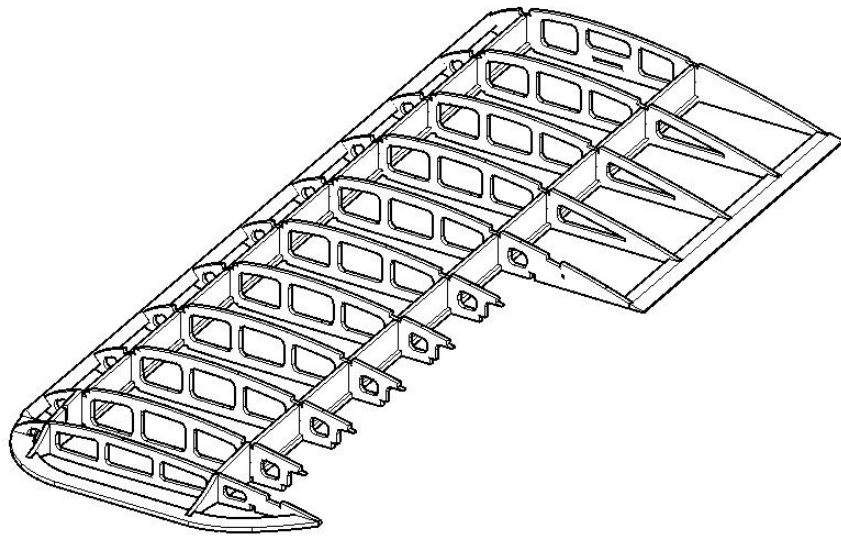
Step4



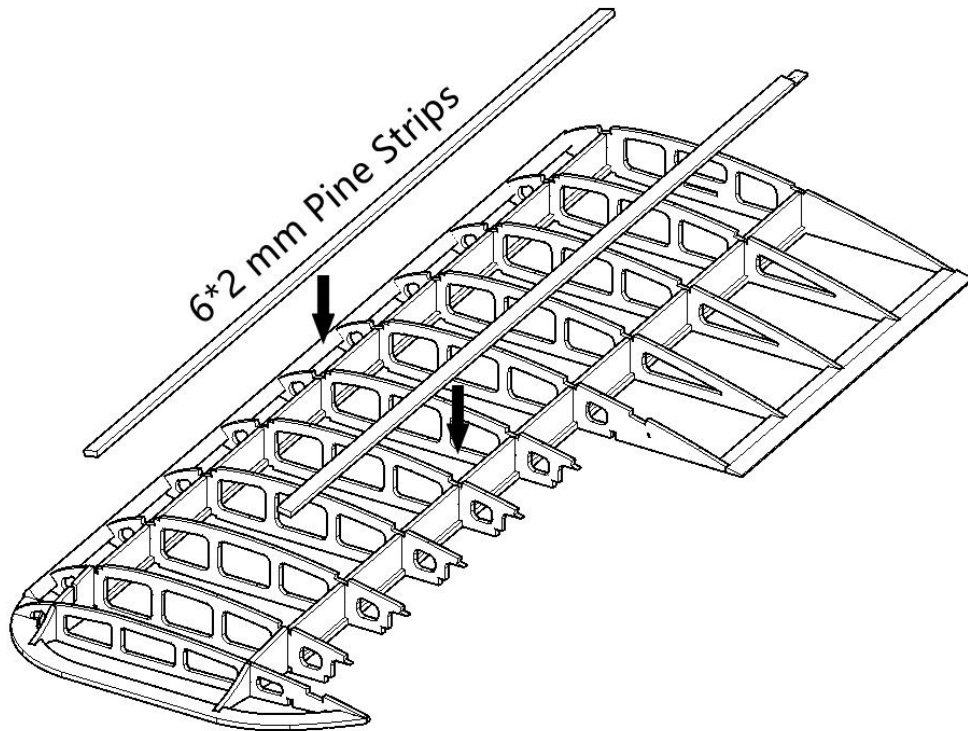
Step5



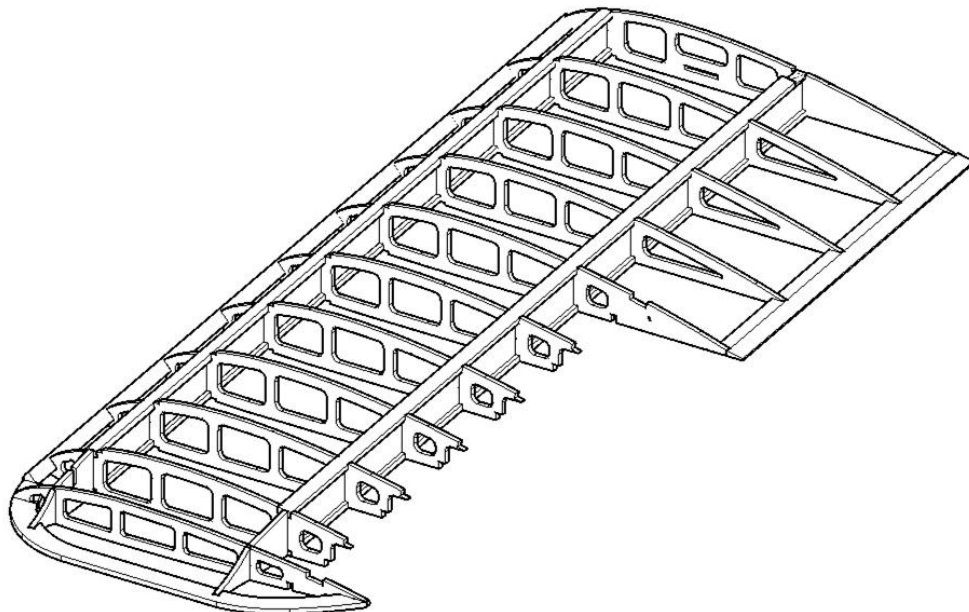
Step6



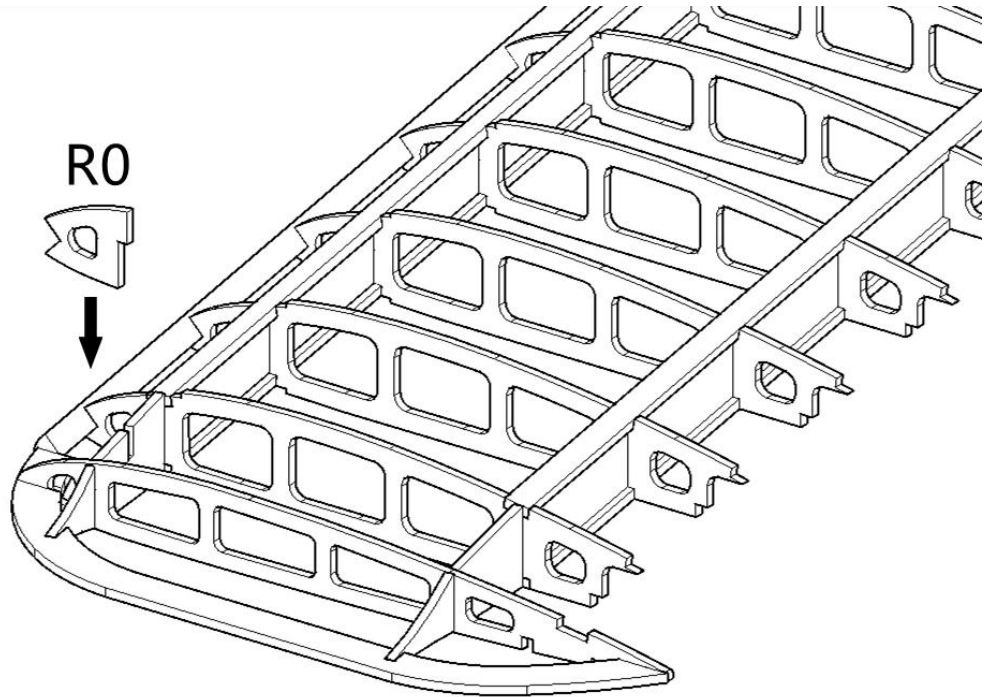
Step7



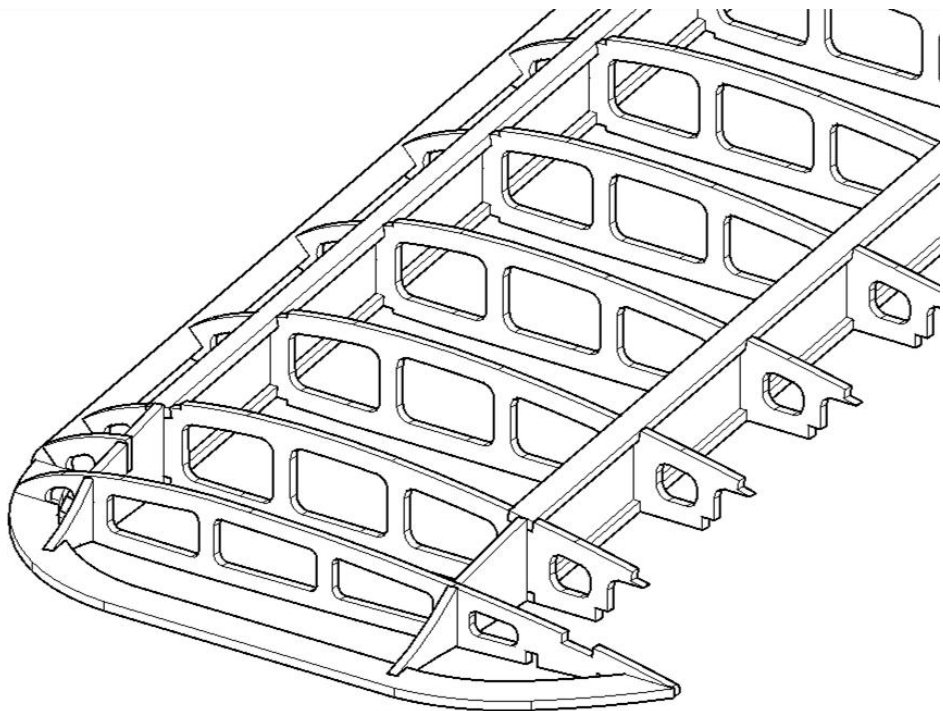
Step8



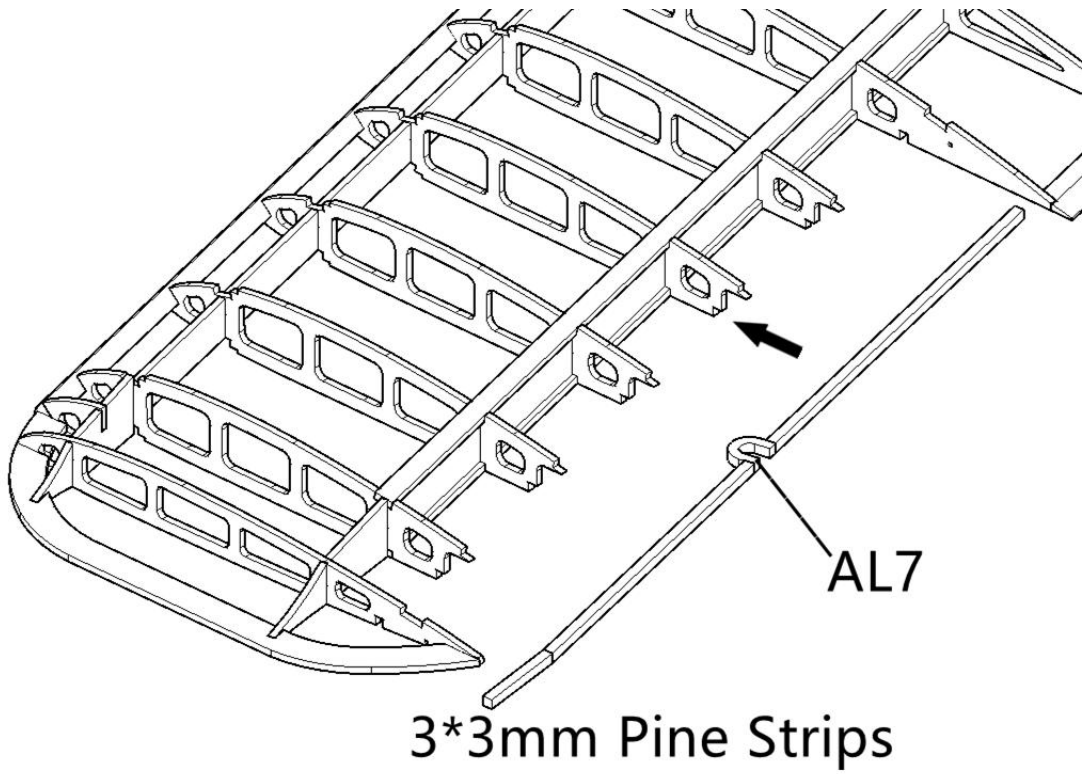
Step9



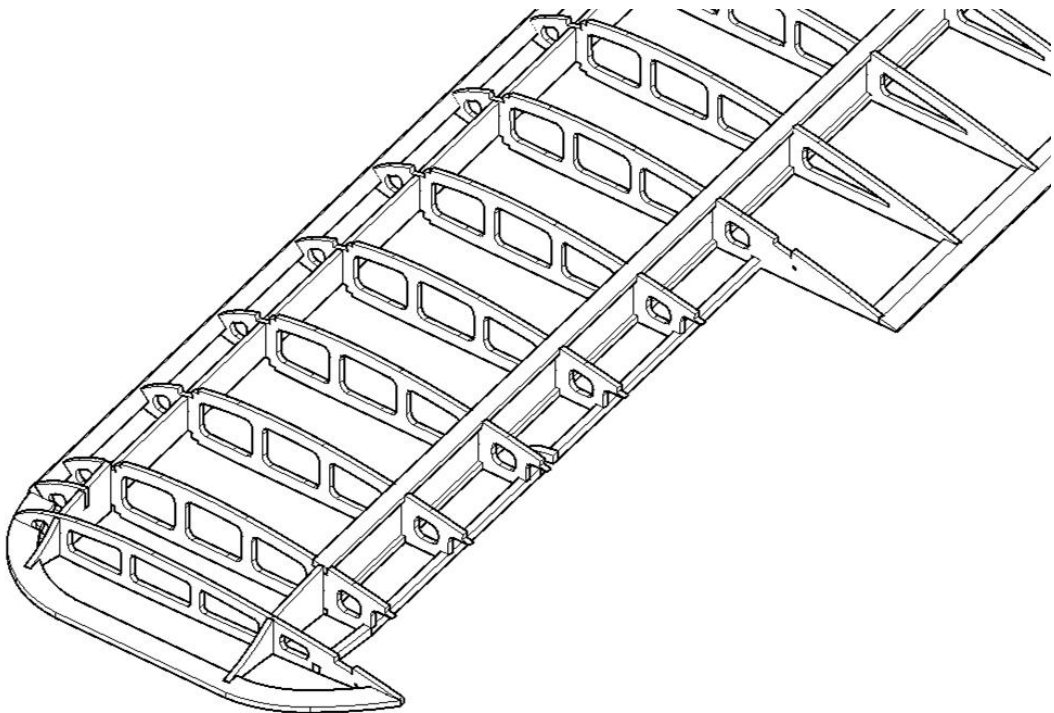
Step10



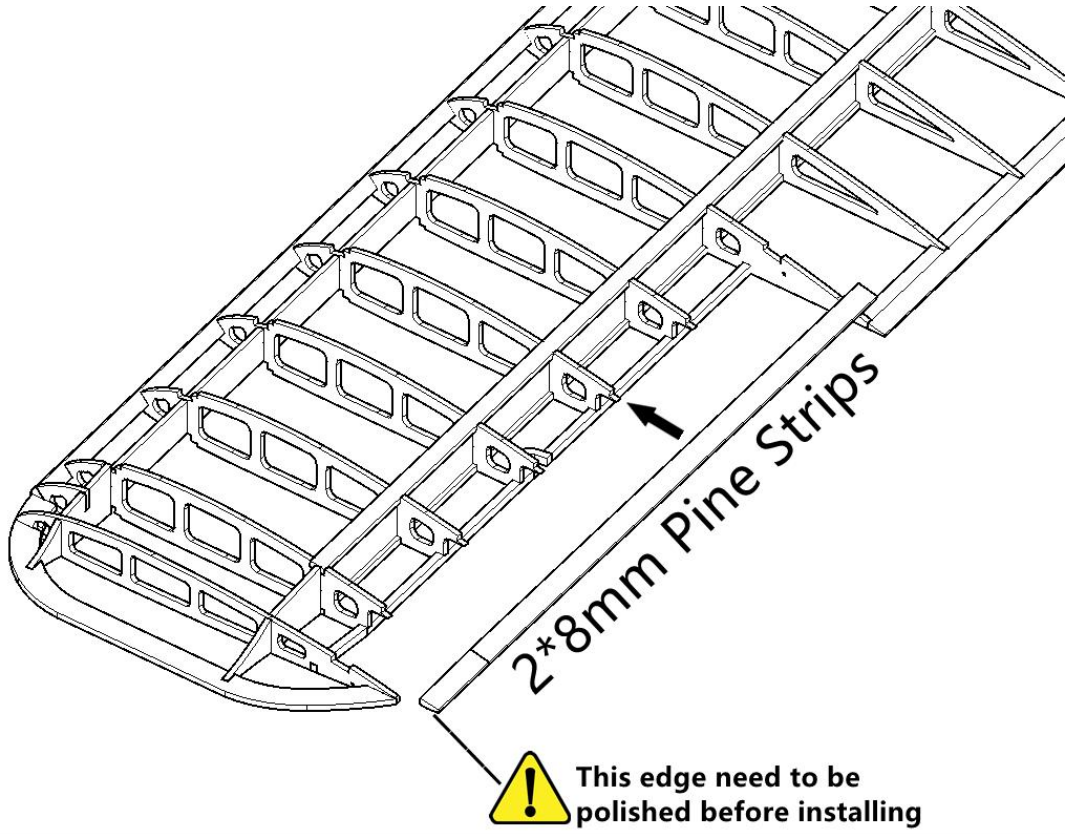
Step11



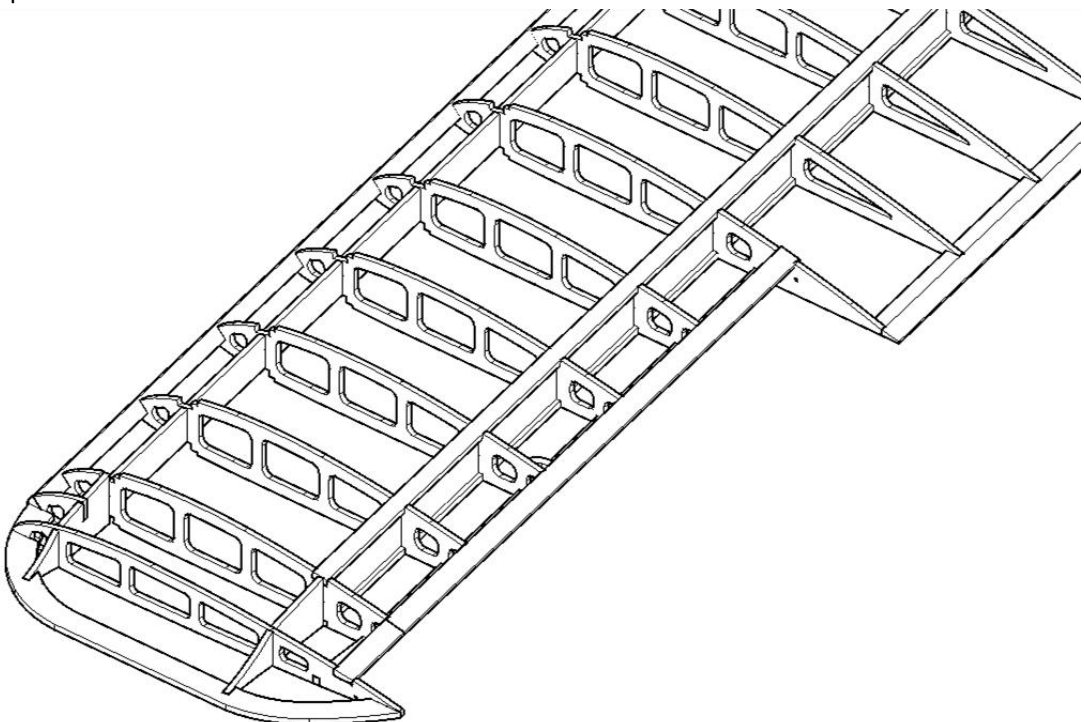
Step12



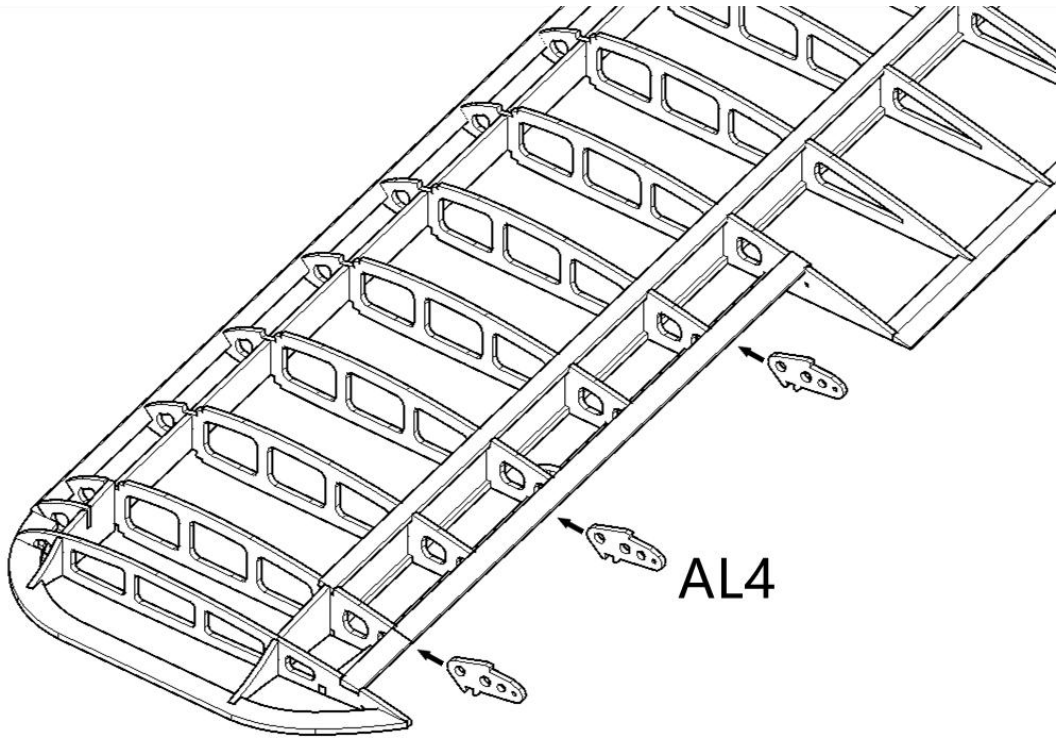
Step13



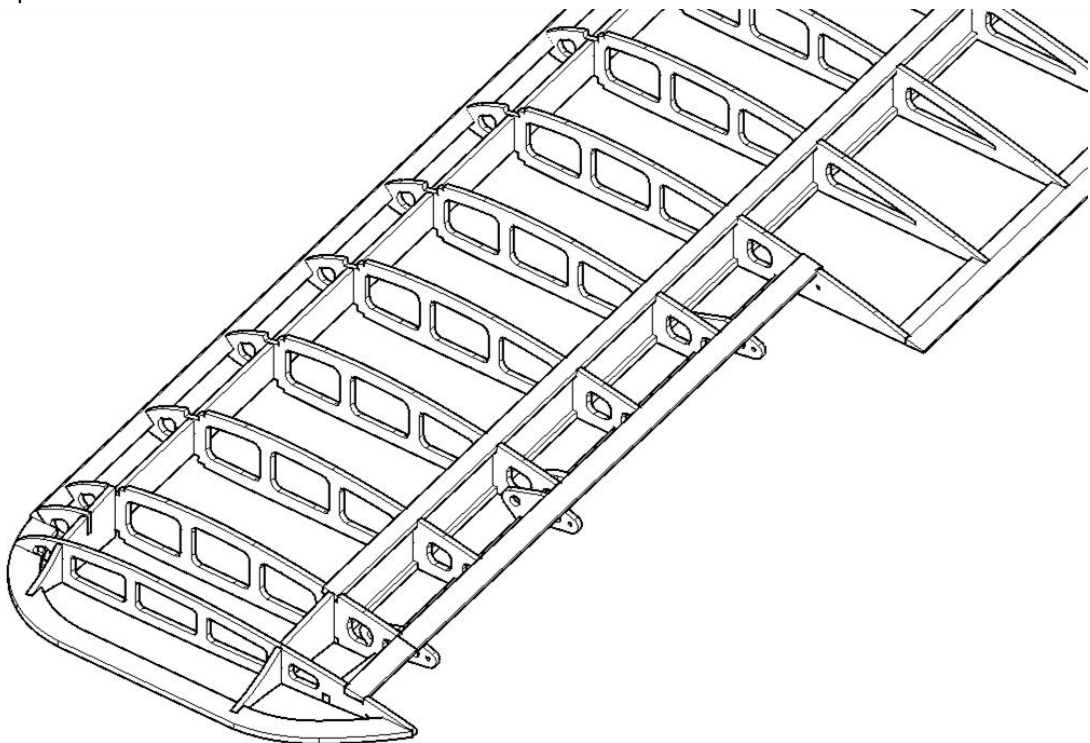
Step14



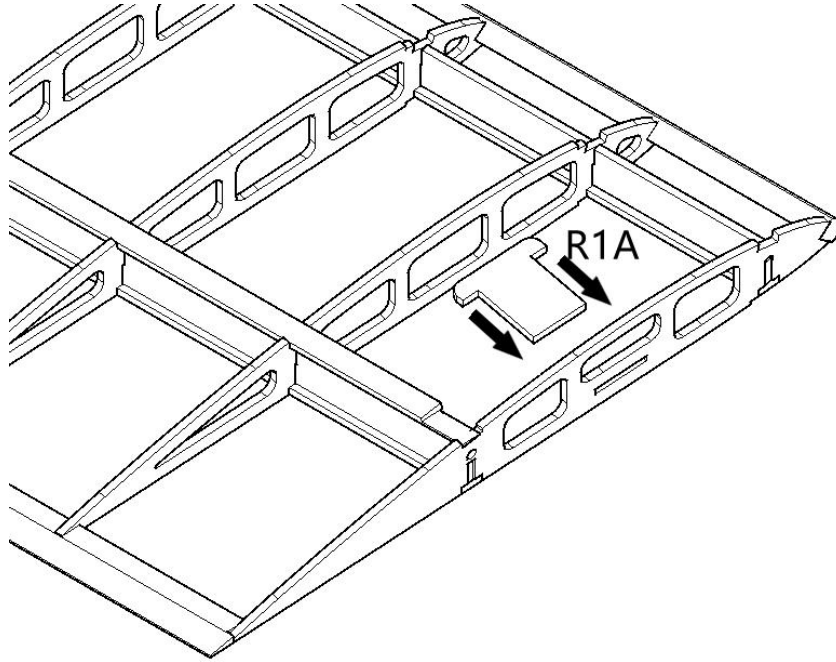
Step15



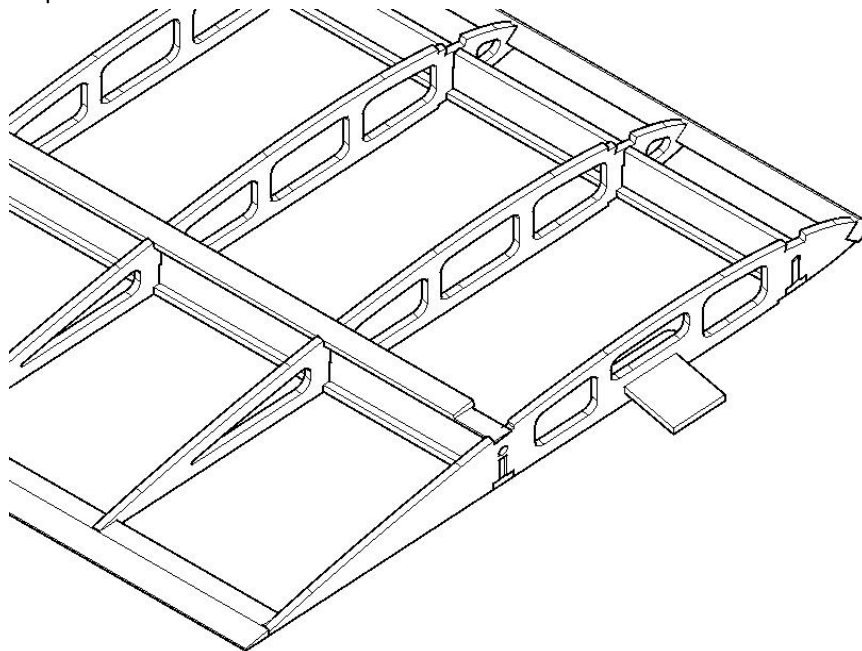
Step16



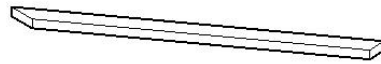
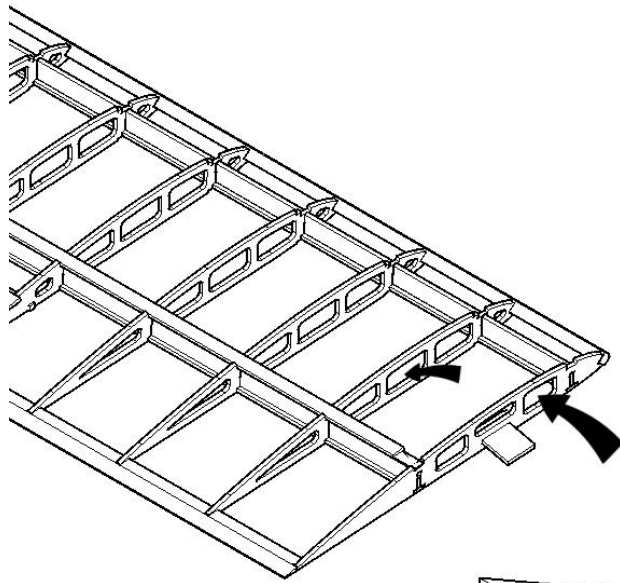
Step17



Step18

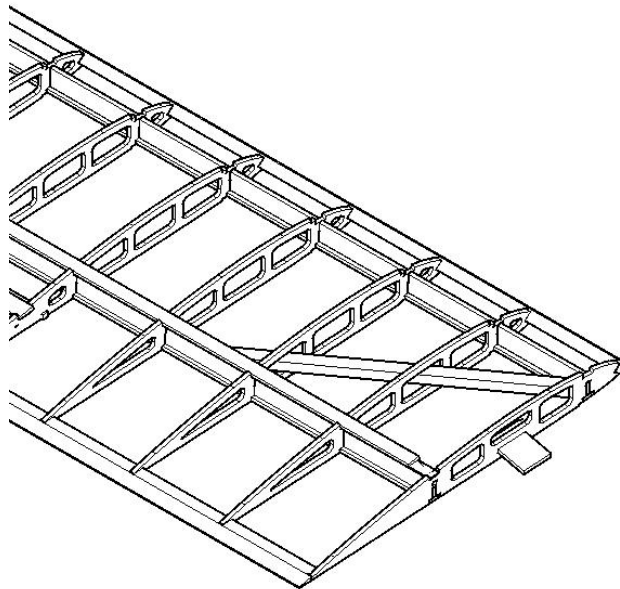


Step19

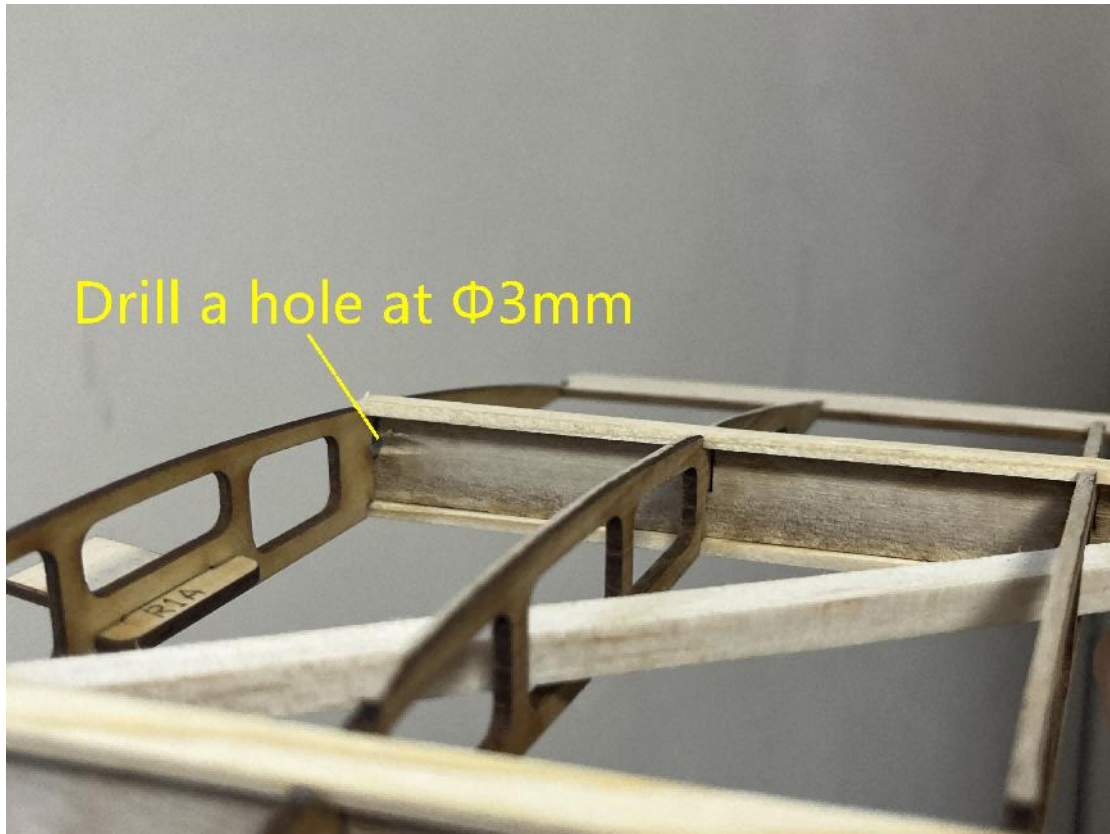


6*6mm Balsa Strips

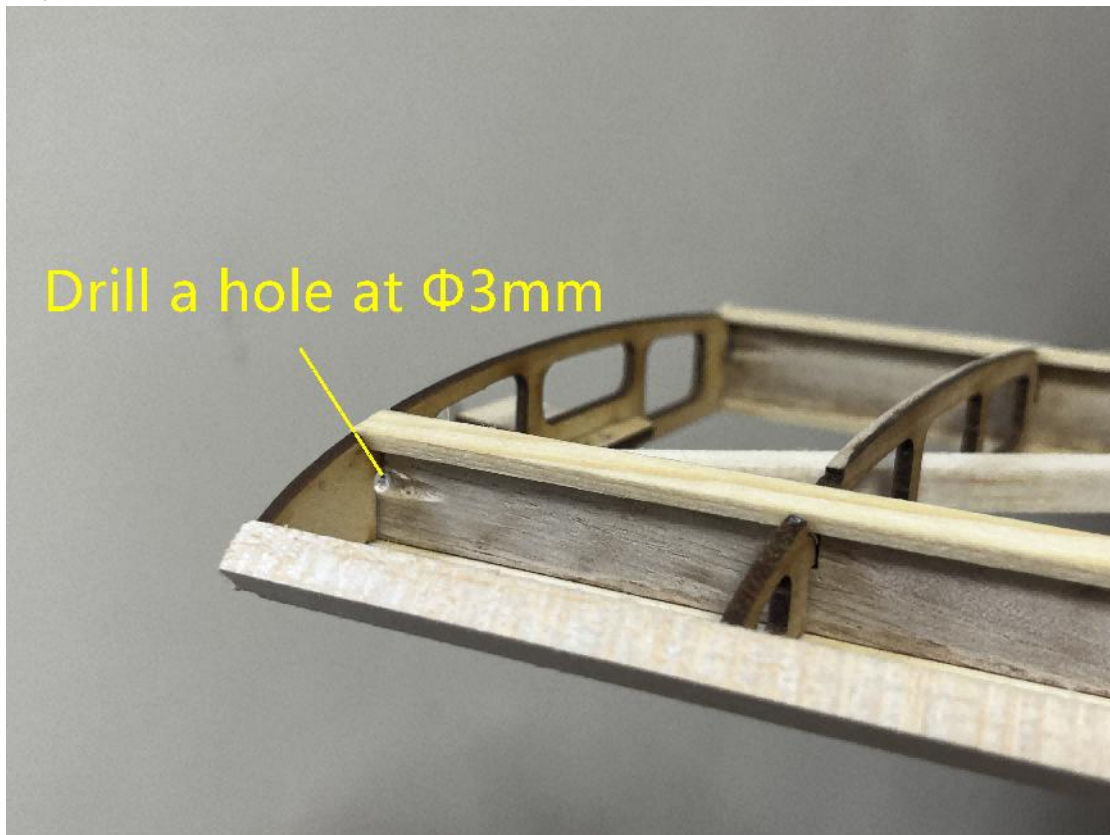
Step20



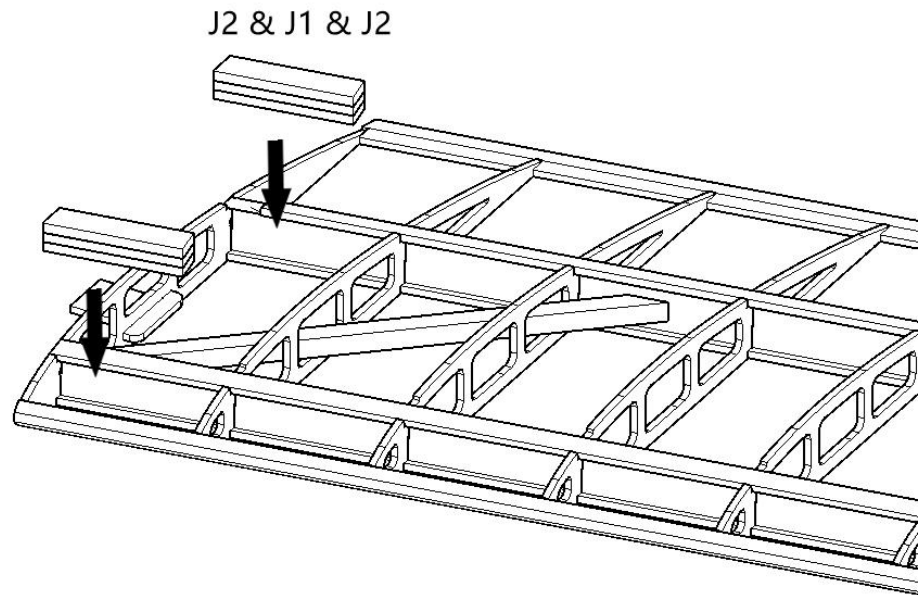
Step21



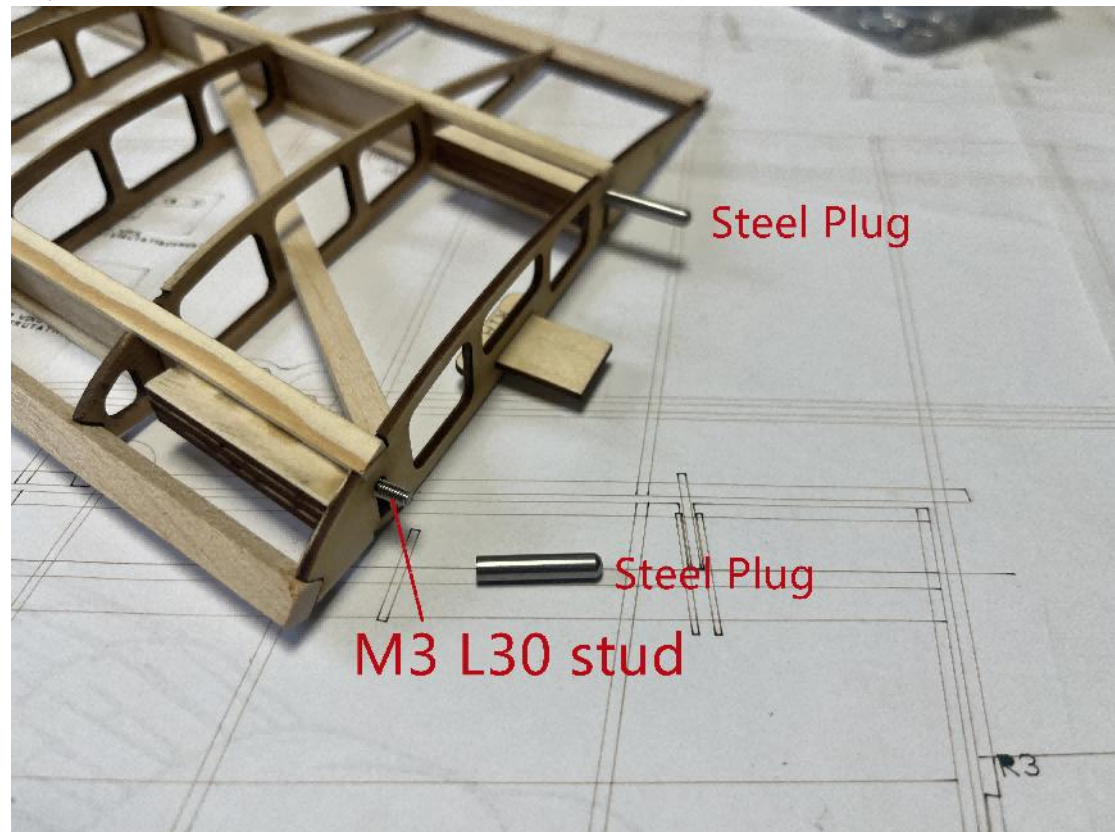
Step22



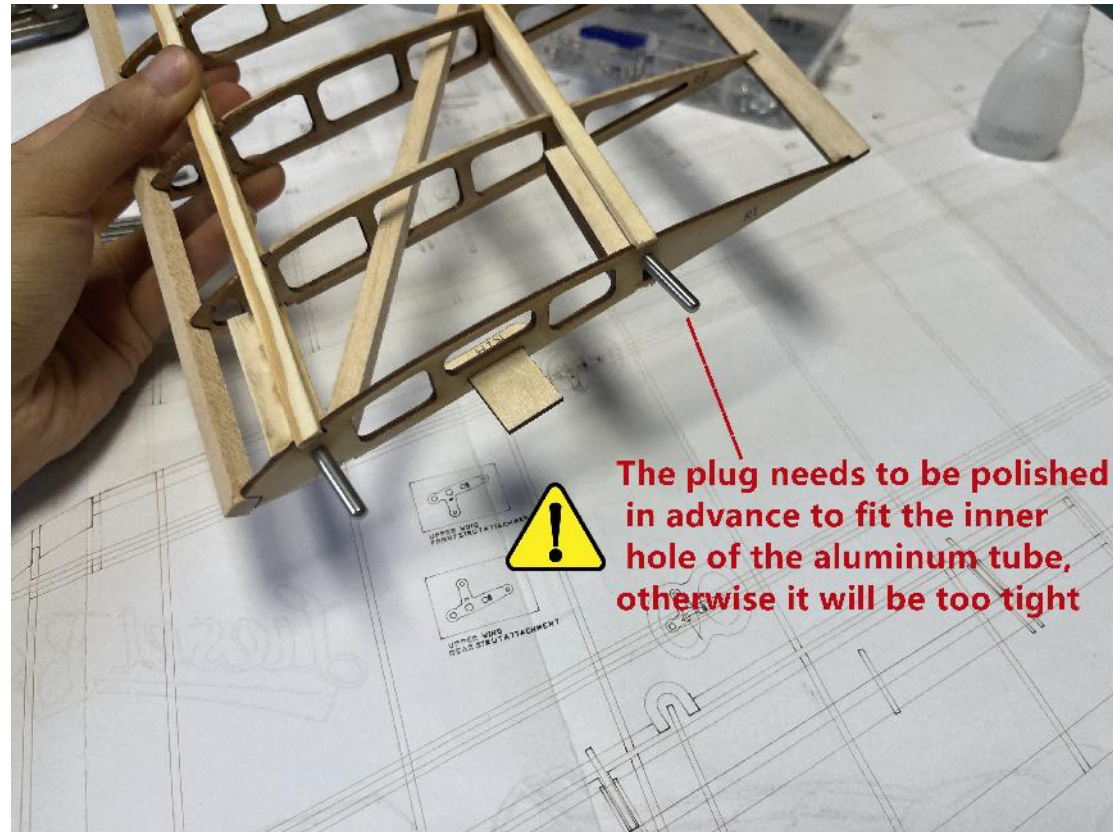
Step23



Step24



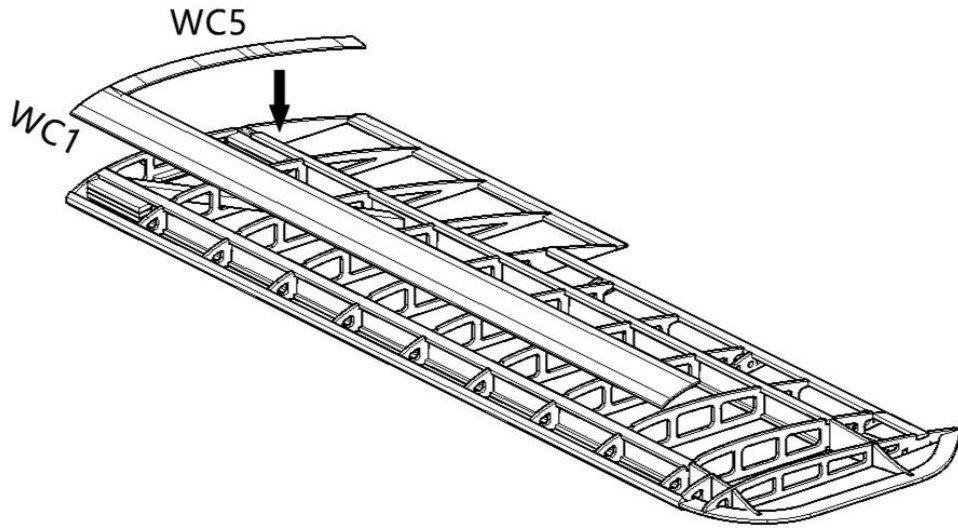
Step25



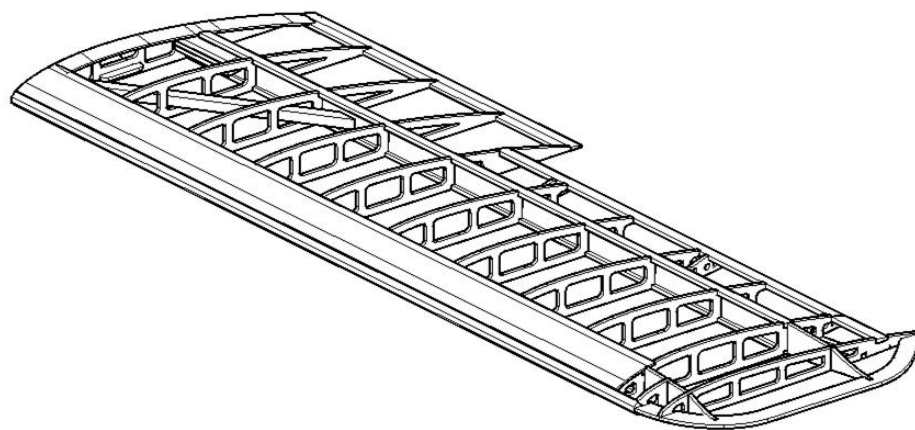
Step26



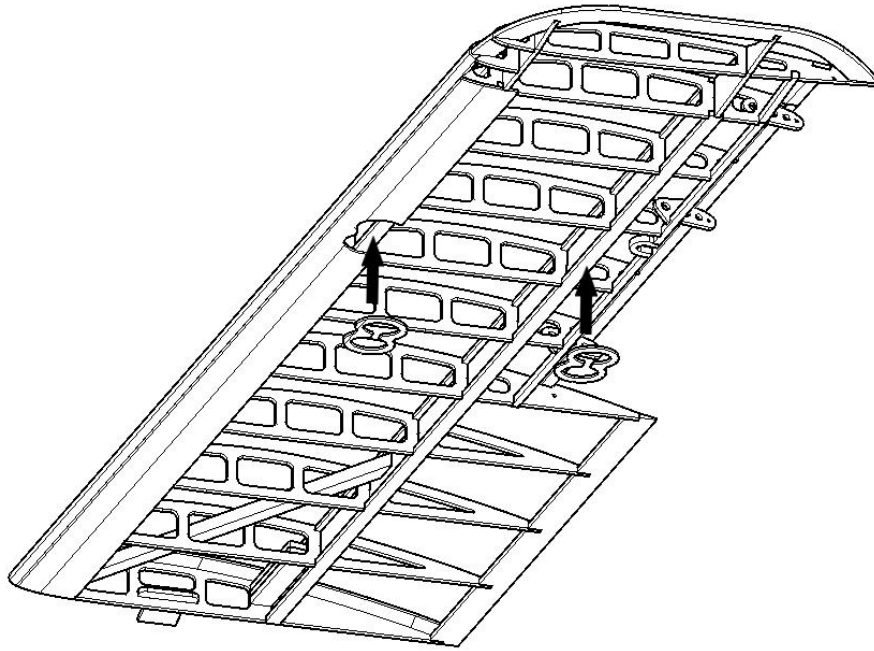
Step27



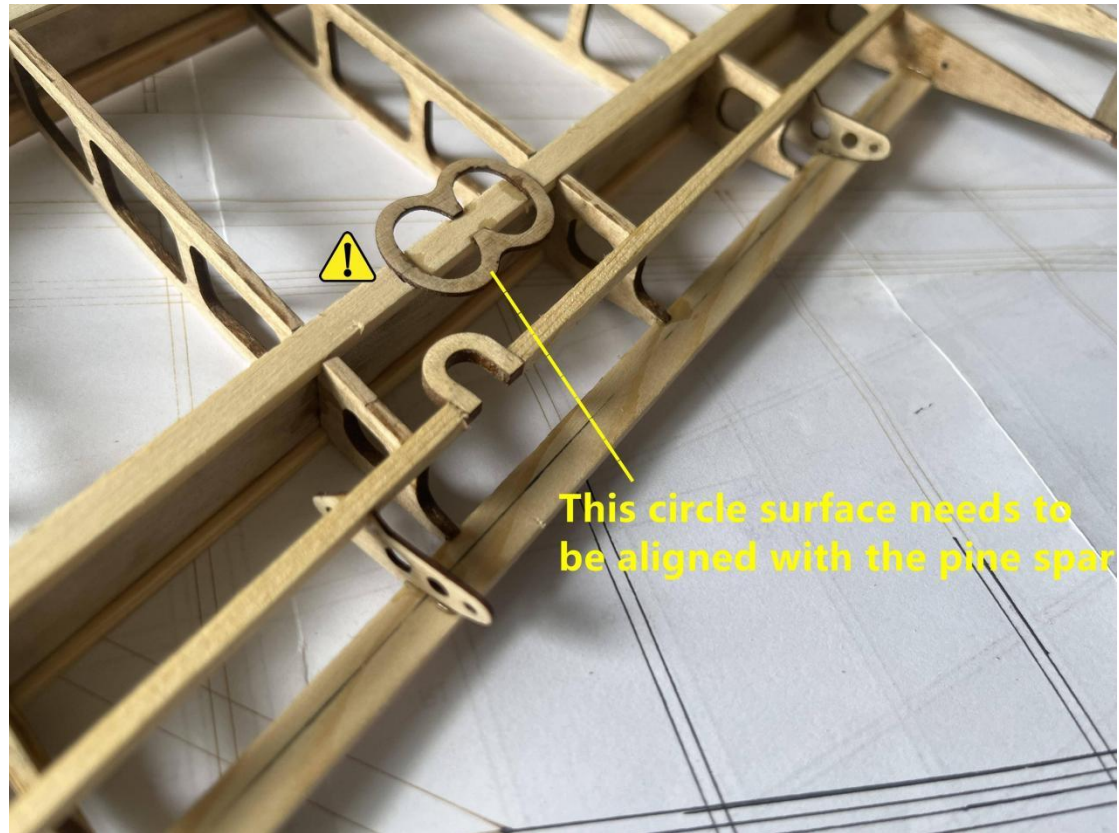
Step28



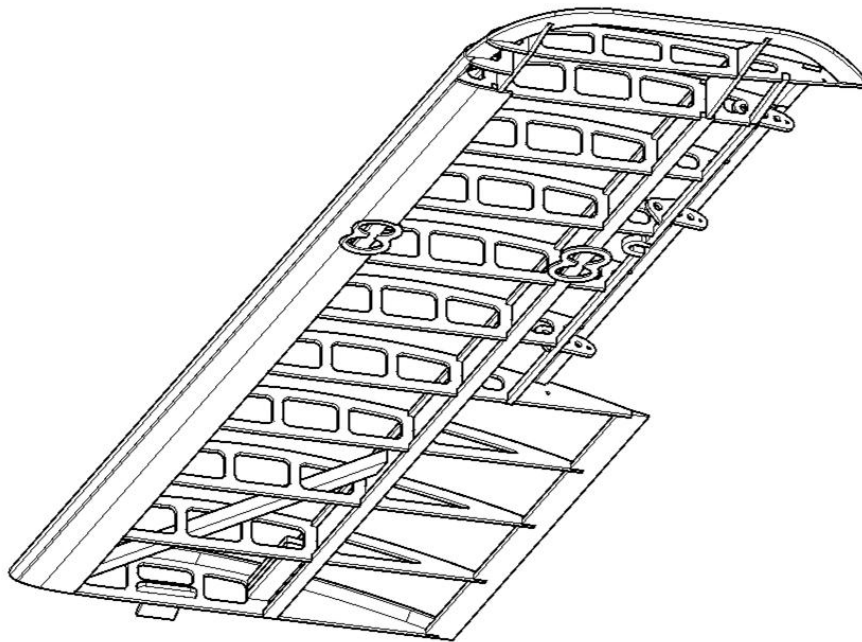
Step29



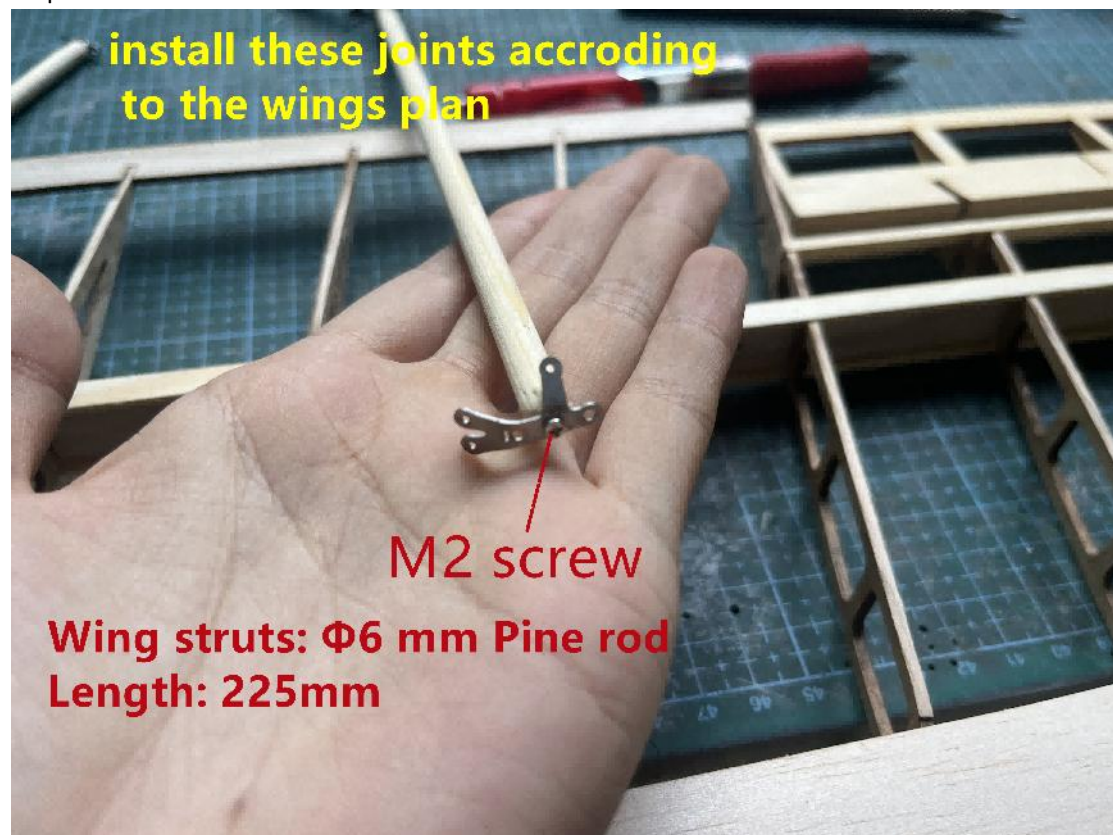
Step30



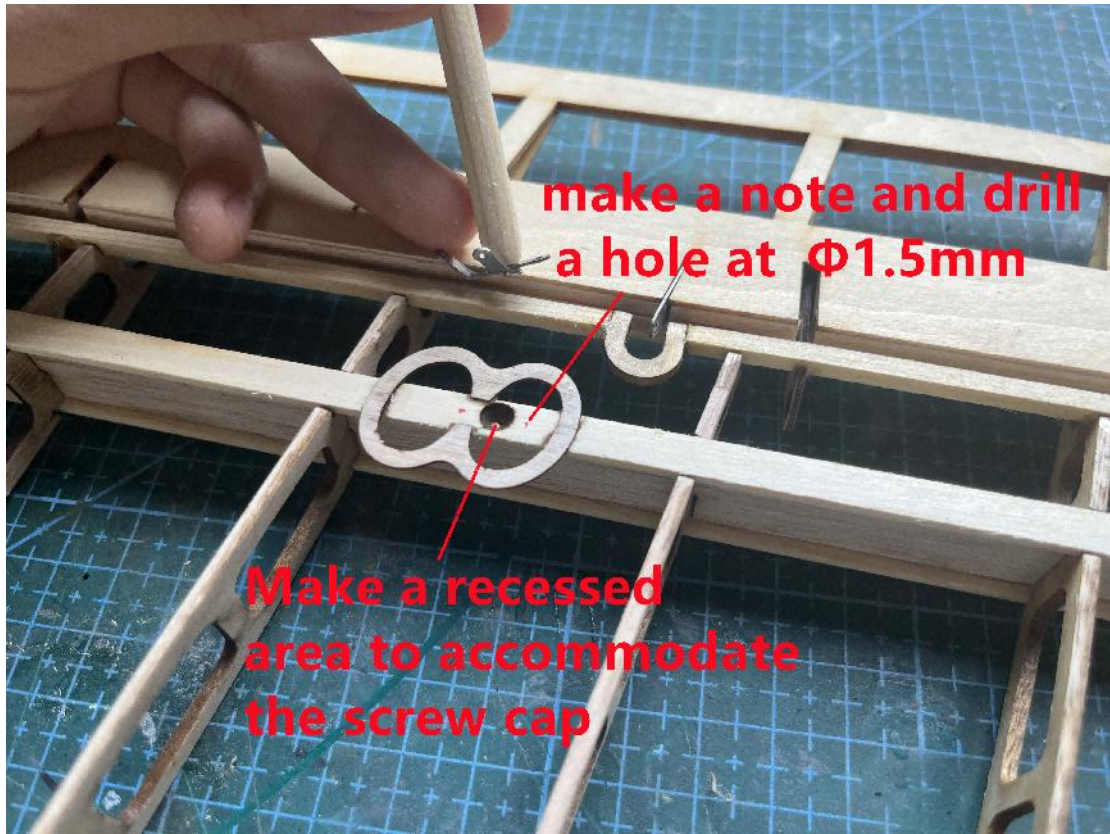
Step31



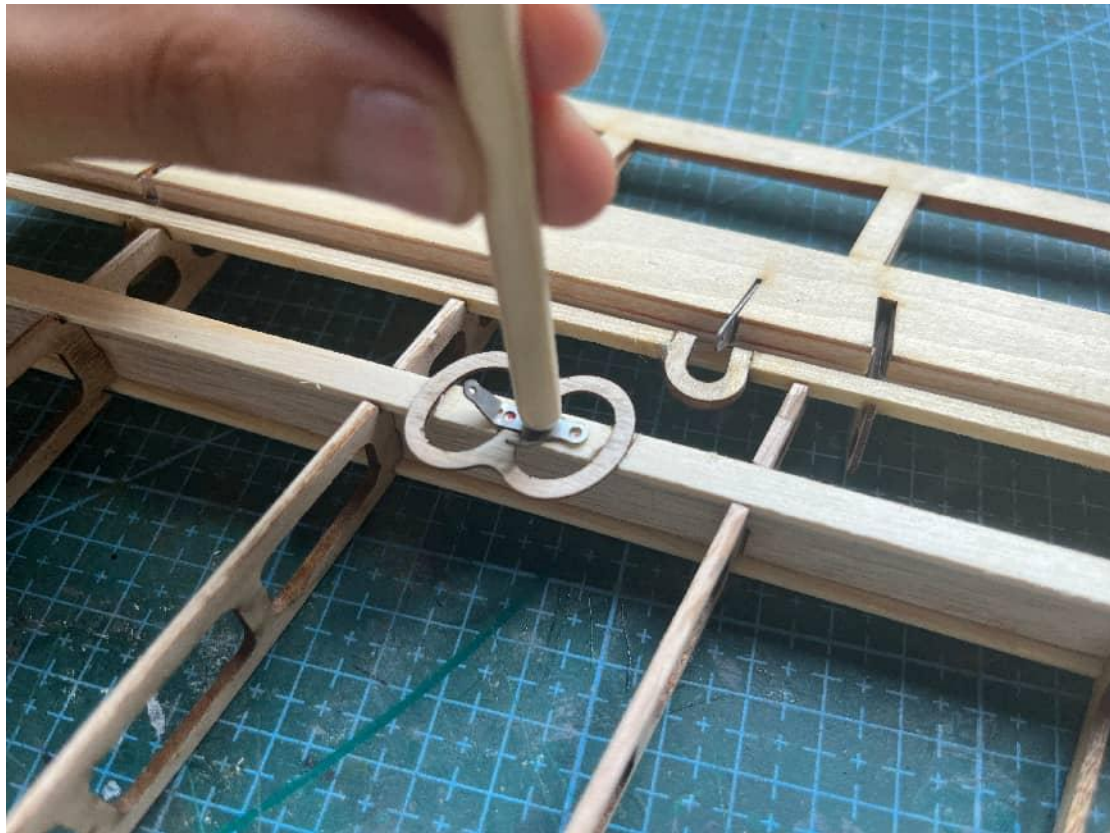
Step32



Step33



Step34



Step35

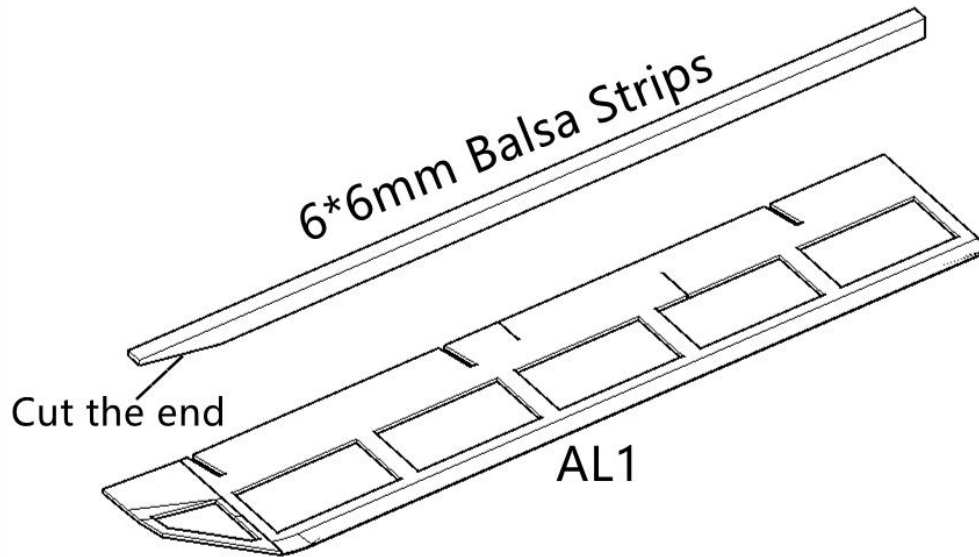


Step36



9.ASSEMBLY-Ailerons

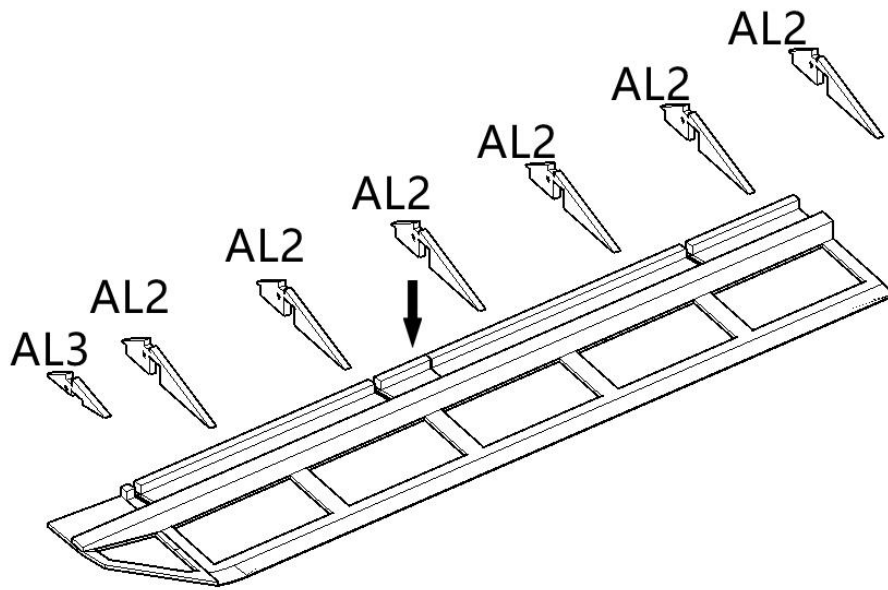
Step1



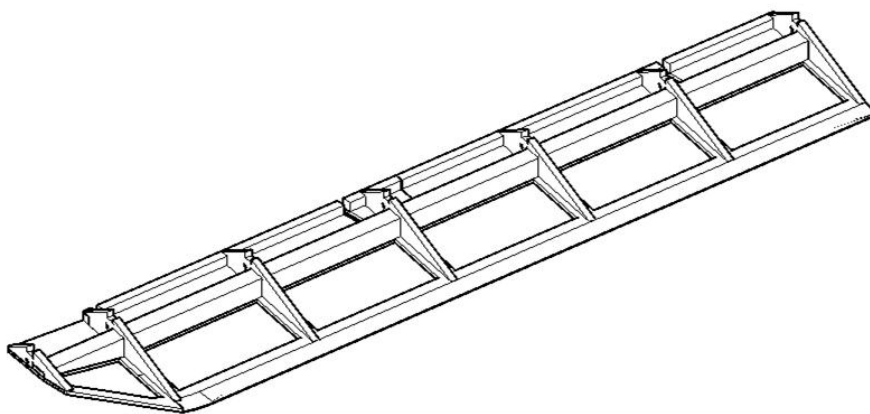
Step2



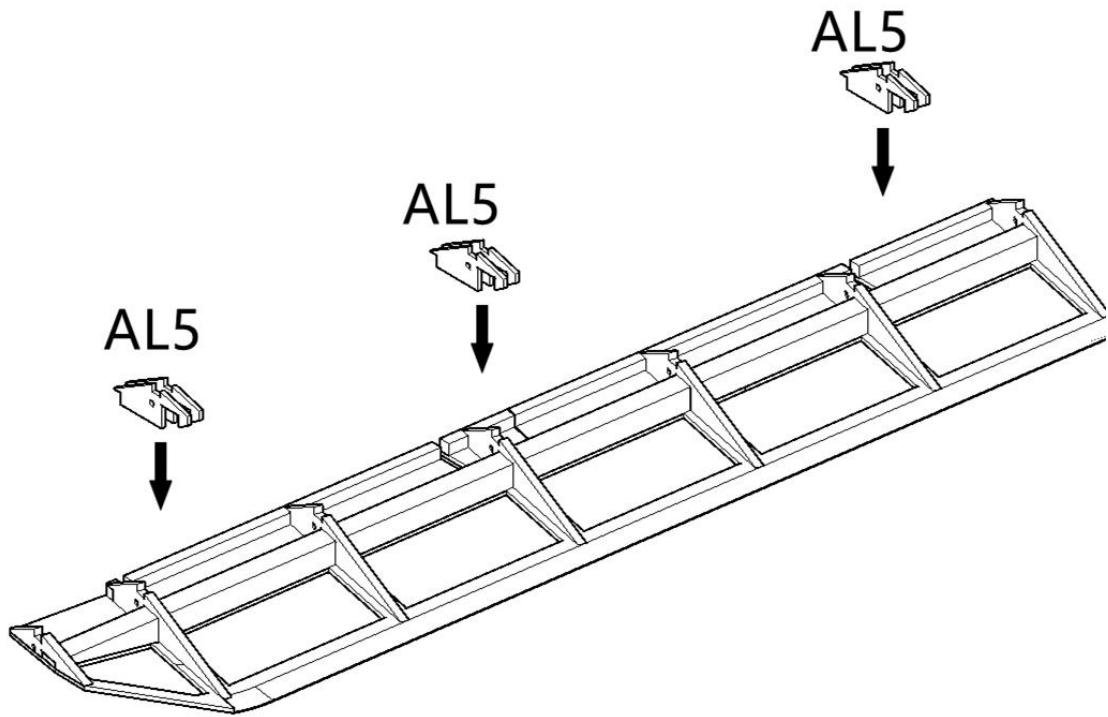
Step3



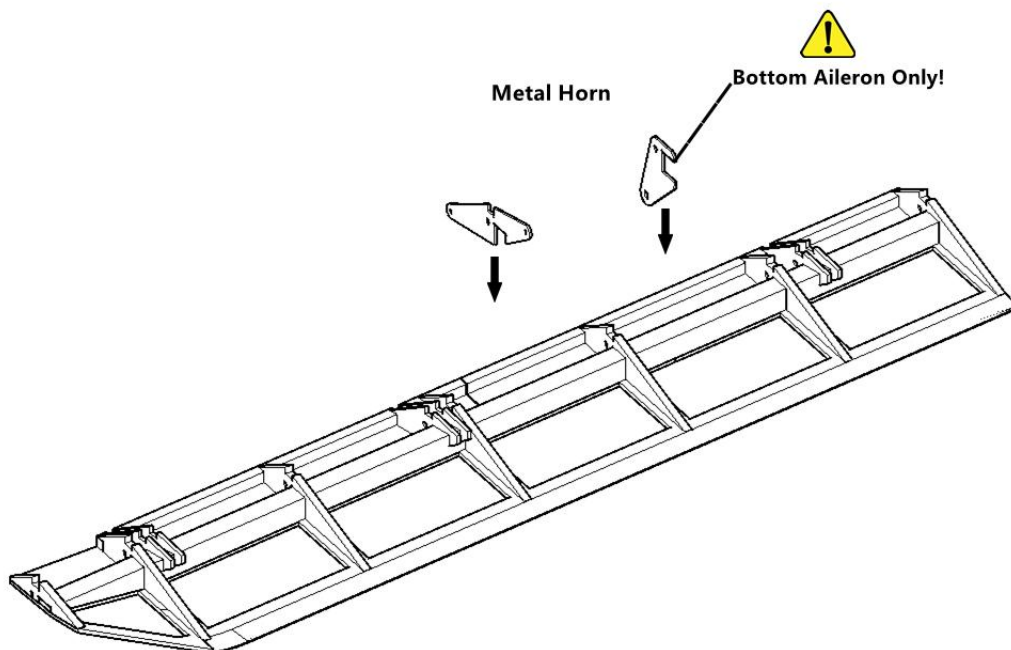
Step4



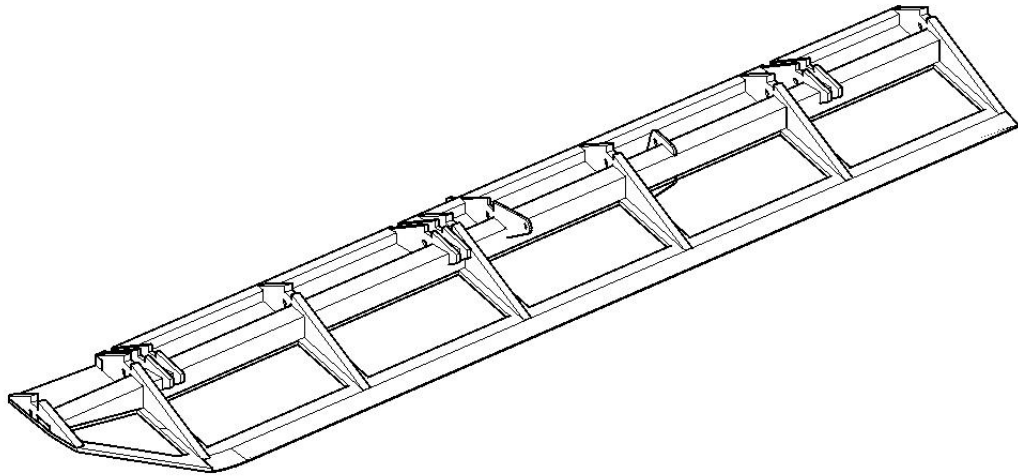
Step5



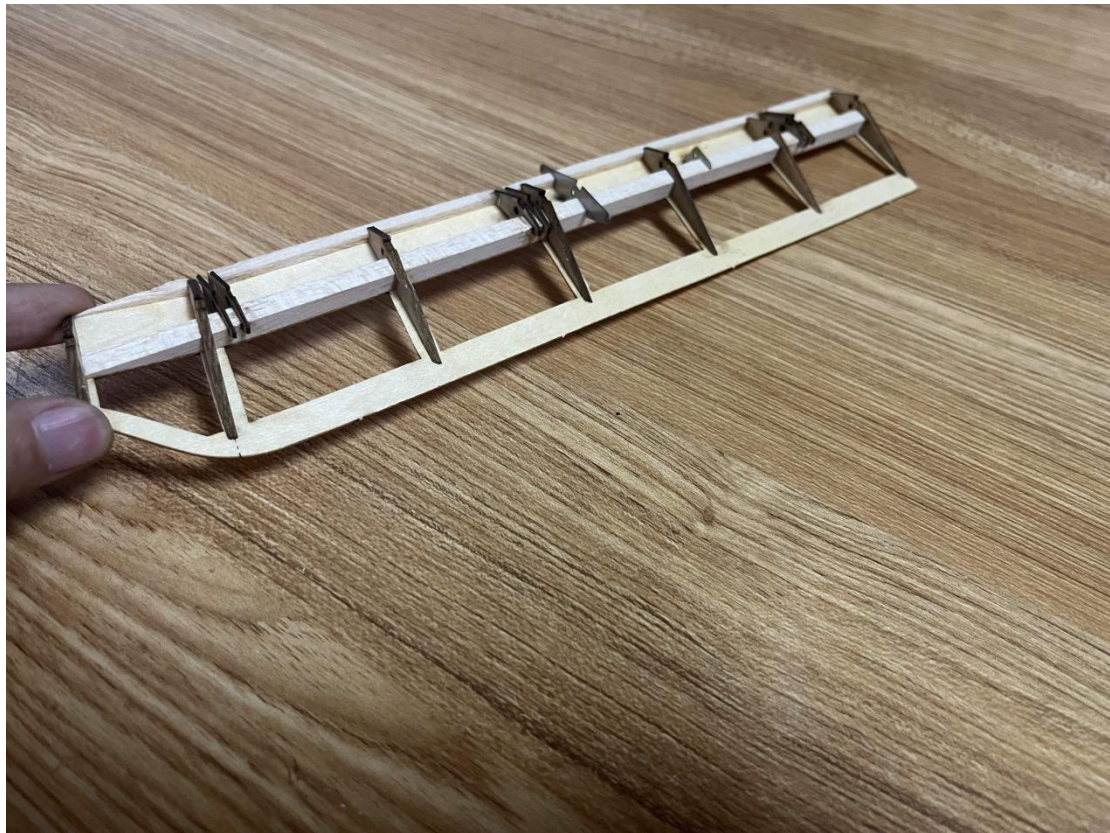
Step6



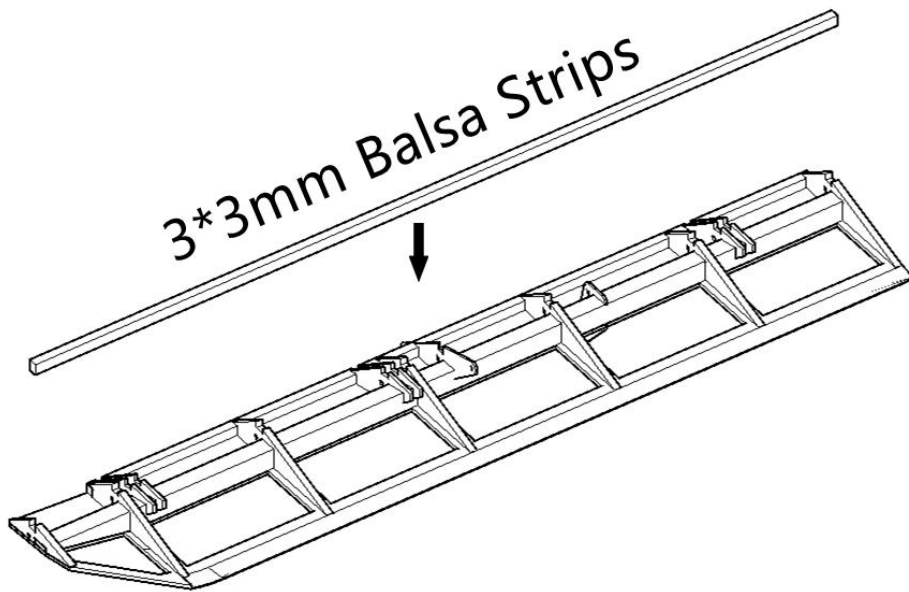
Step7



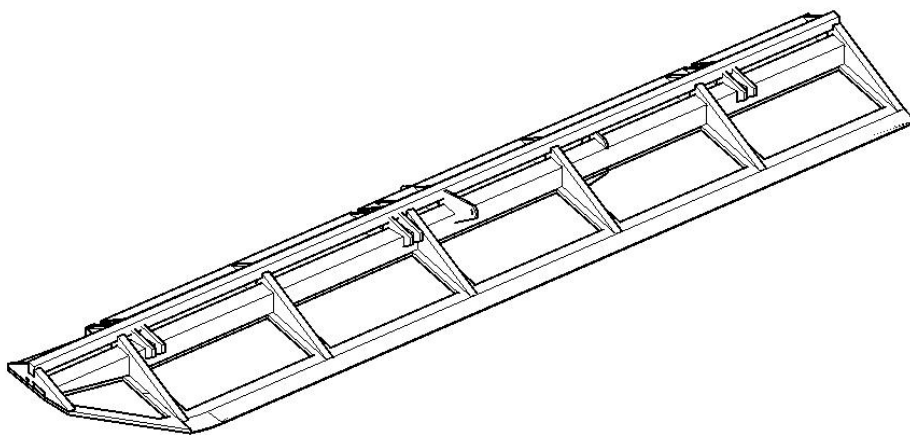
Step8



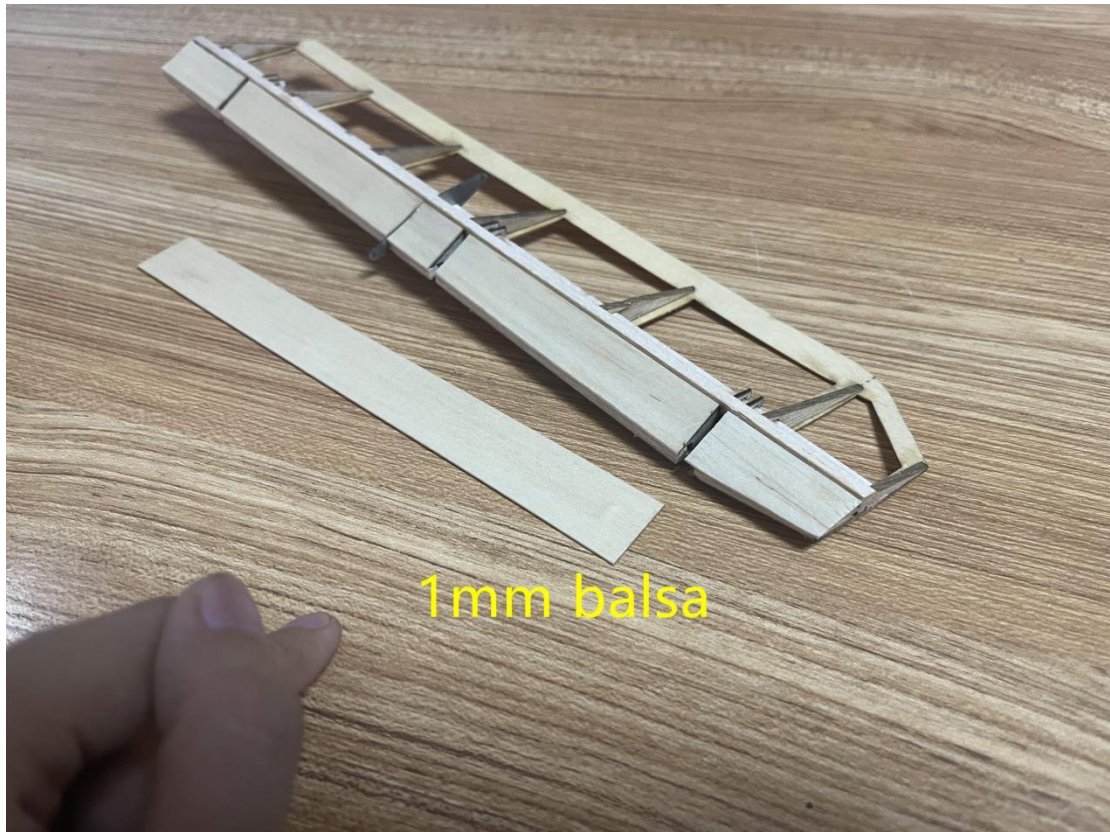
Step9



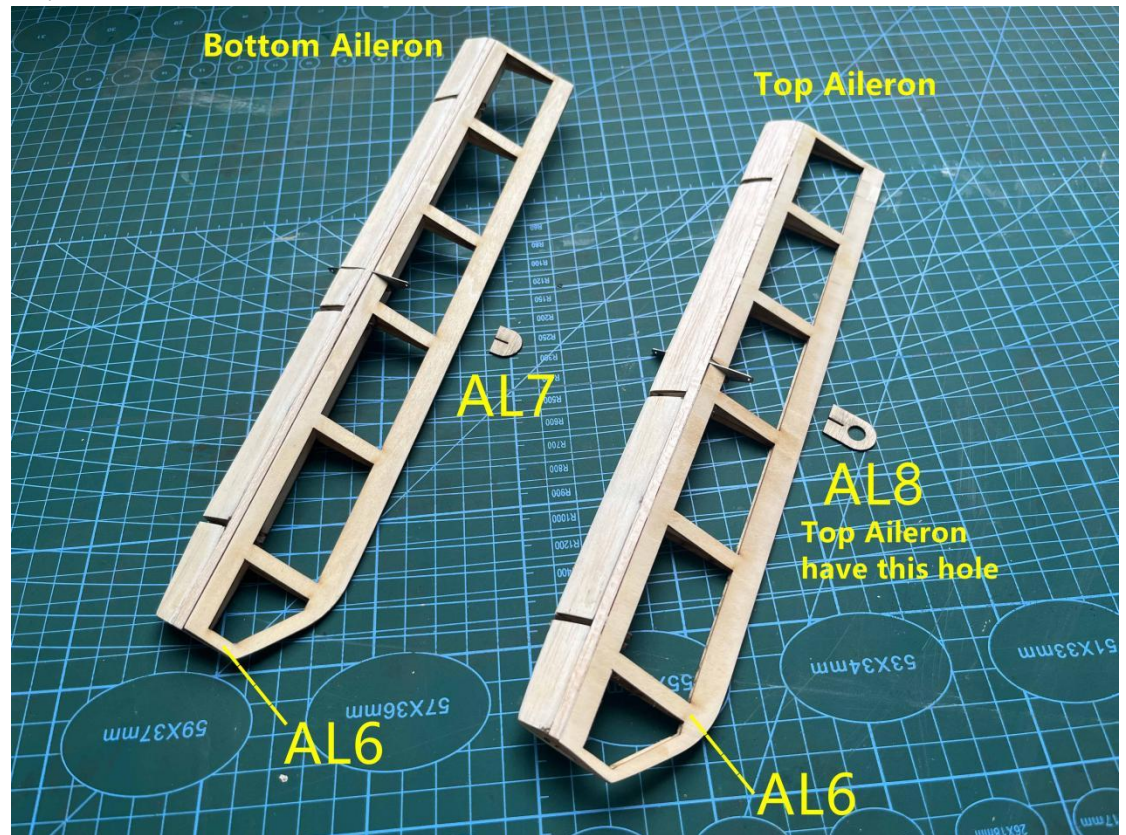
Step10



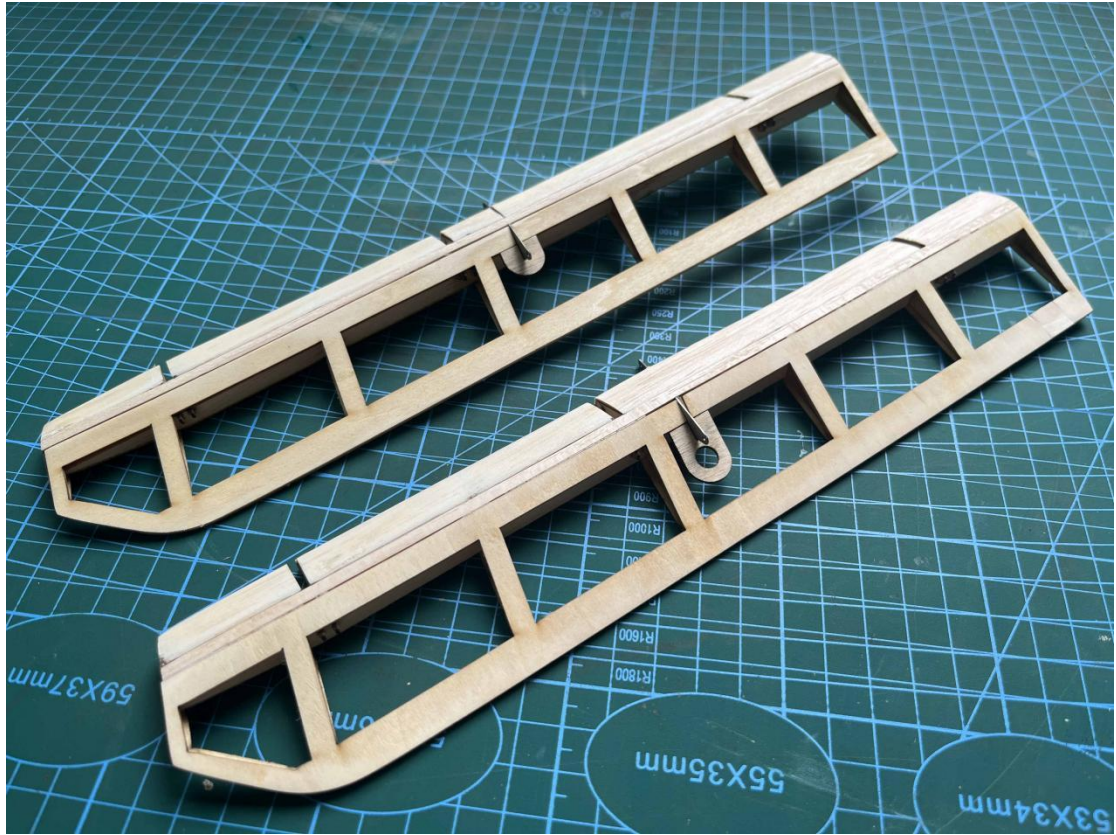
Step11



Step12



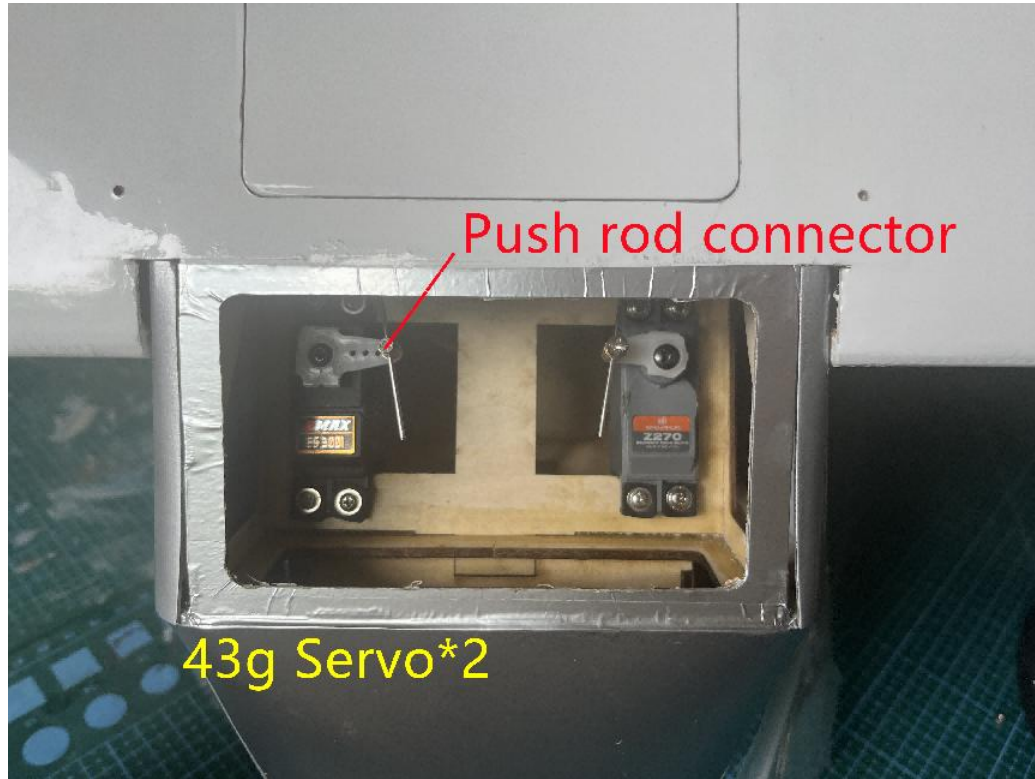
Step13



Builder's Note:

10. Electronics (Example is EP)

Step1



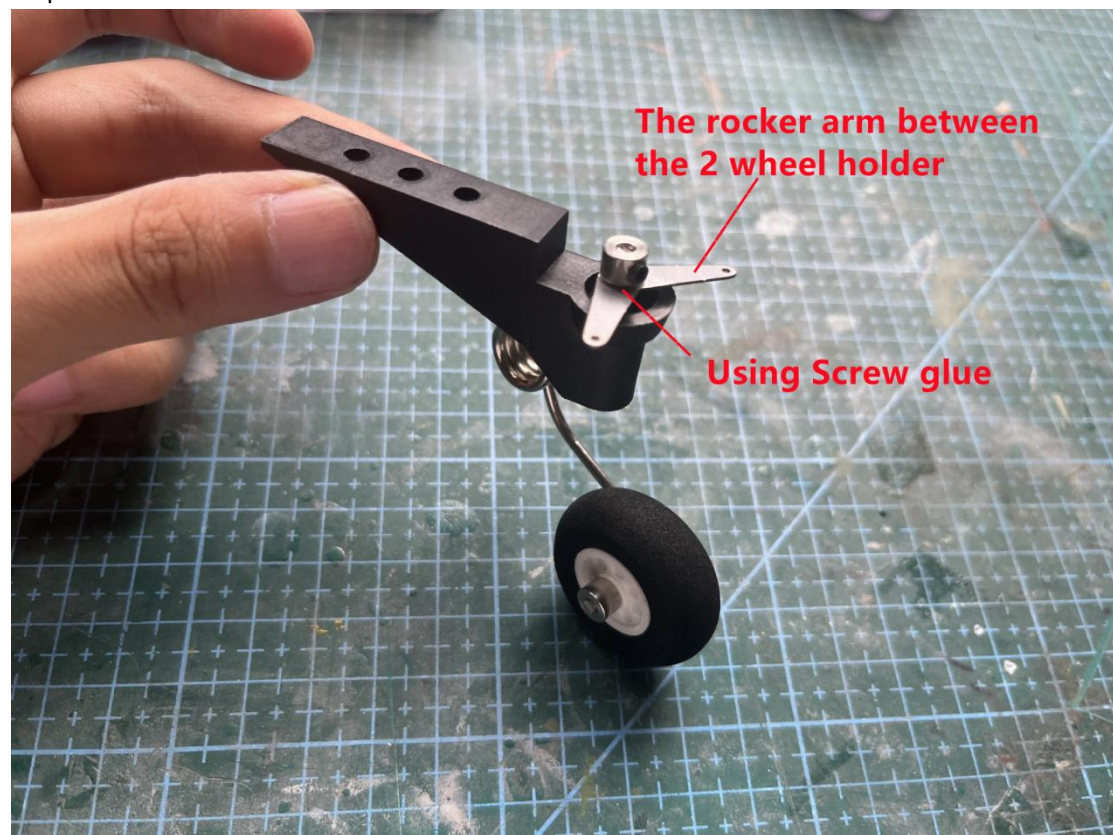
Step2



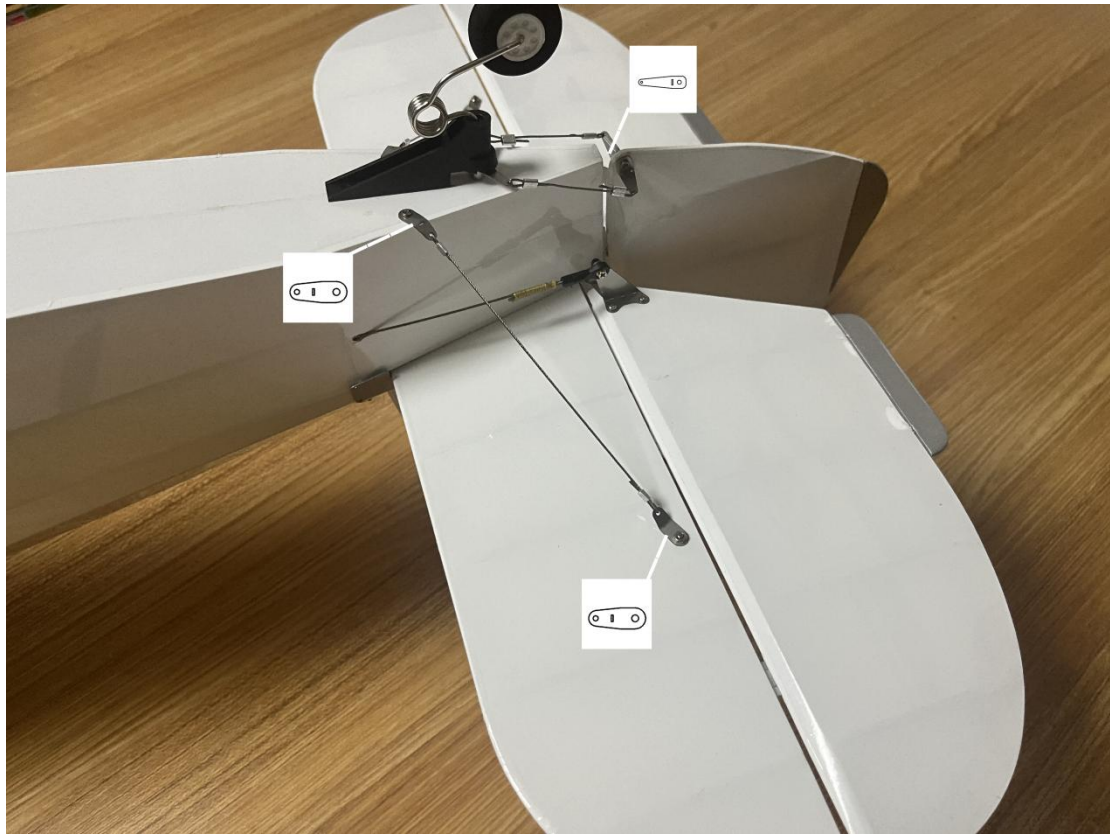
Step3



Step4



Step5



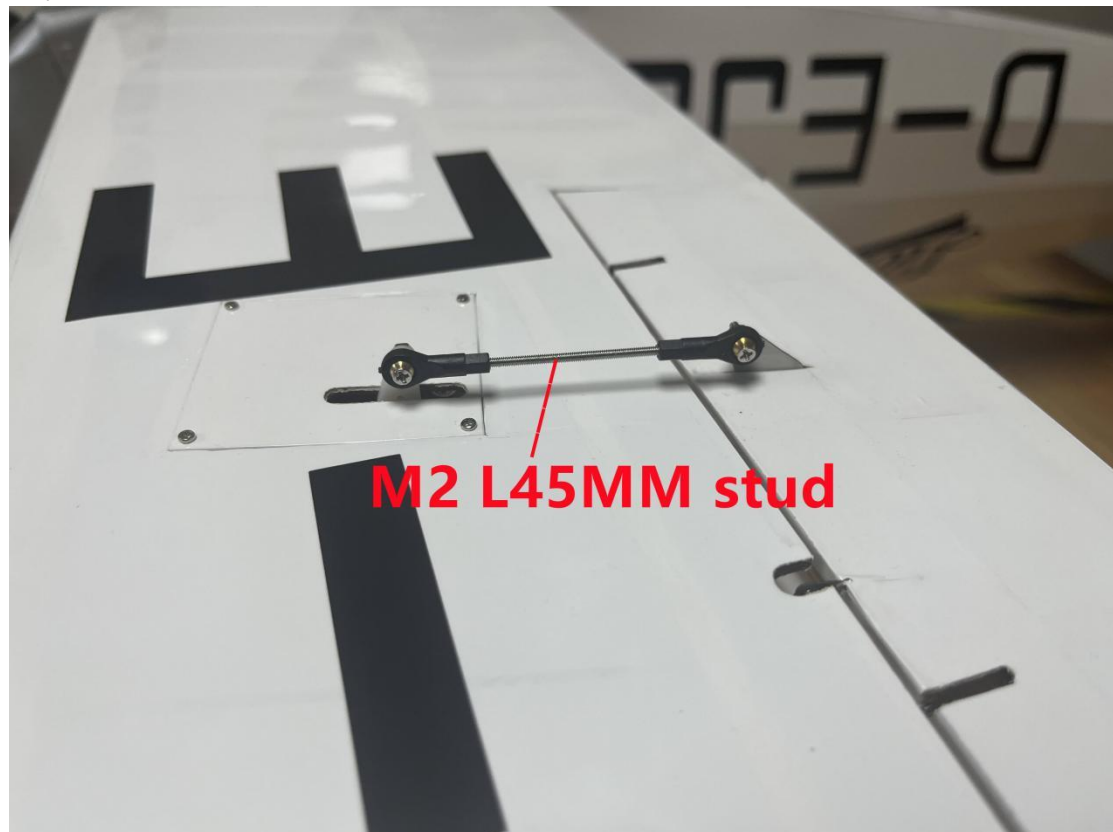
Step6



Step7



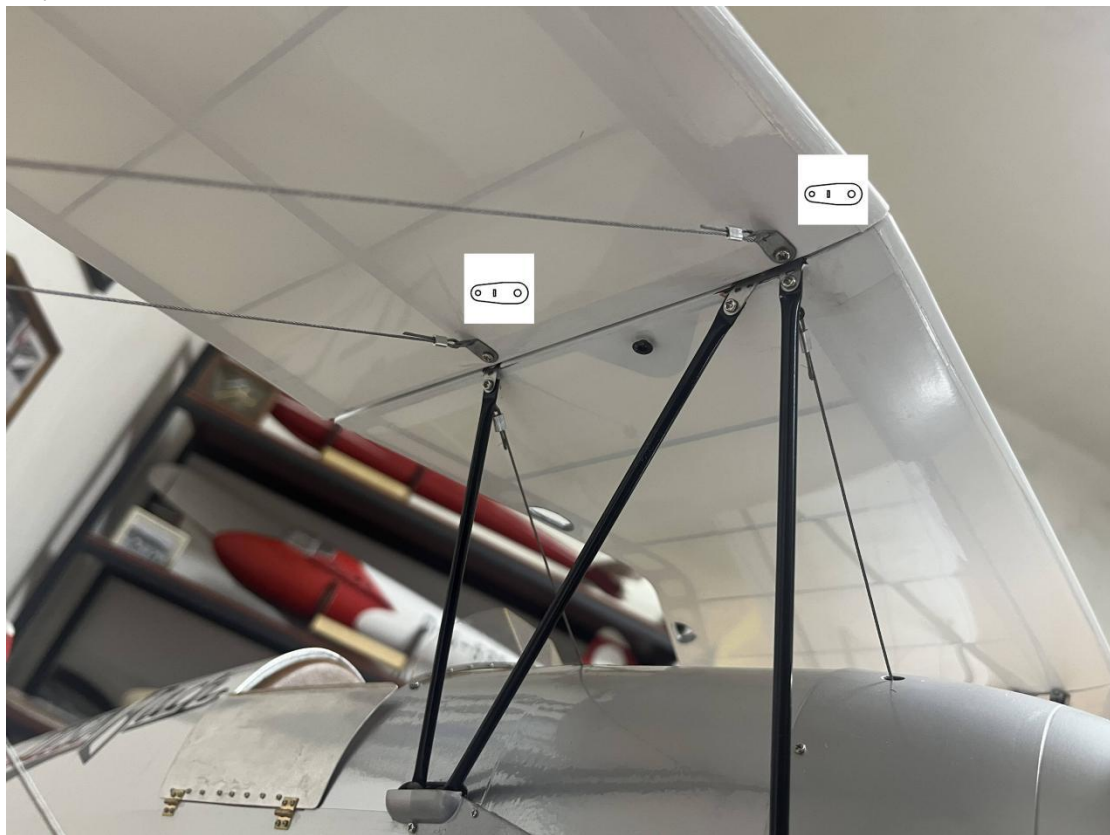
Step8



Step9



Step10



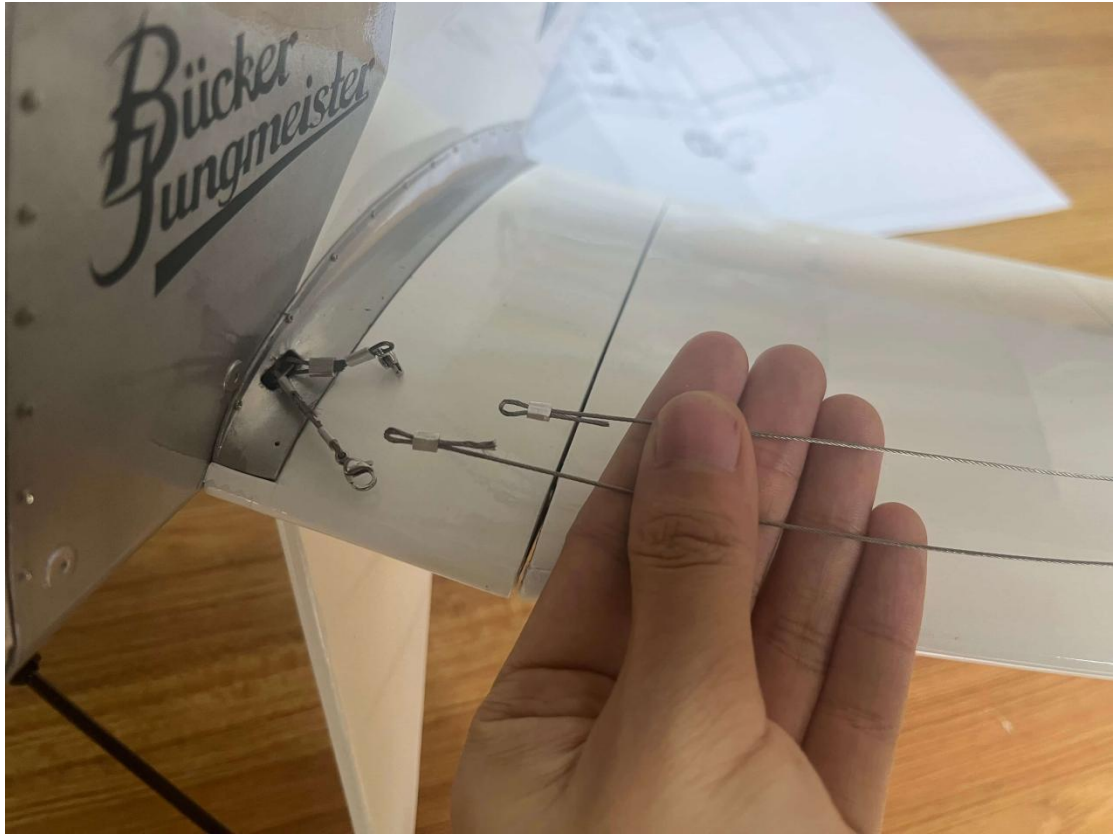
Step11



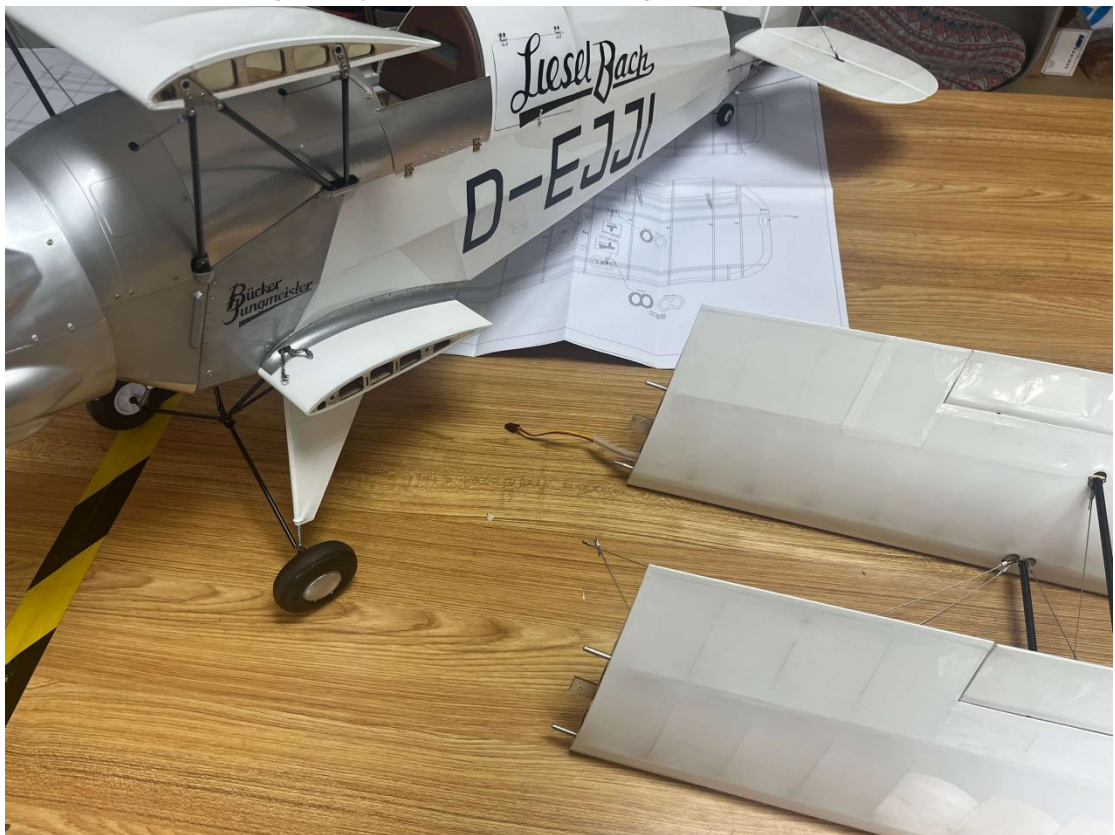
How to remove the wings Step 1- Remove the upper wing



How to remove the wings Step 2- Remove these two wire from metal buckle



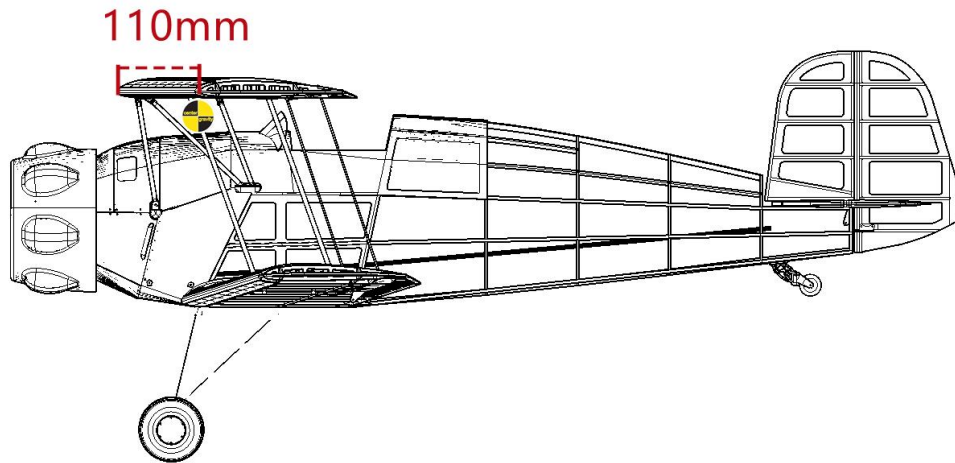
How to remove the wings Step 3- Remove bottom wing





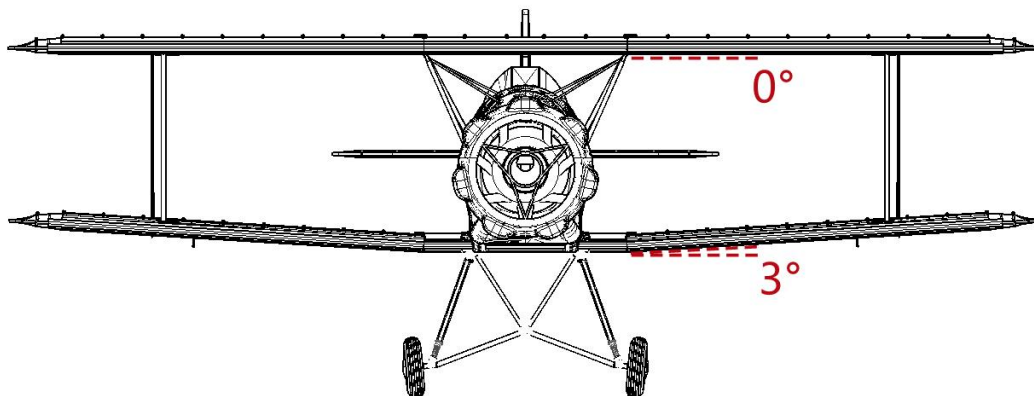
BEFORE YOU FLY

1. CG: 110mm from upper wing Leading edge



2. Horizontal stabilizer mounting angle: 0°

3. Wing installation angel:



3.Control Travel	
ELEVATOR	$\pm 20^\circ$
RUDDER	$\pm 30^\circ$
AILERON	$+15^\circ -10^\circ$

Thank you!



Tony Ray's AeroModel