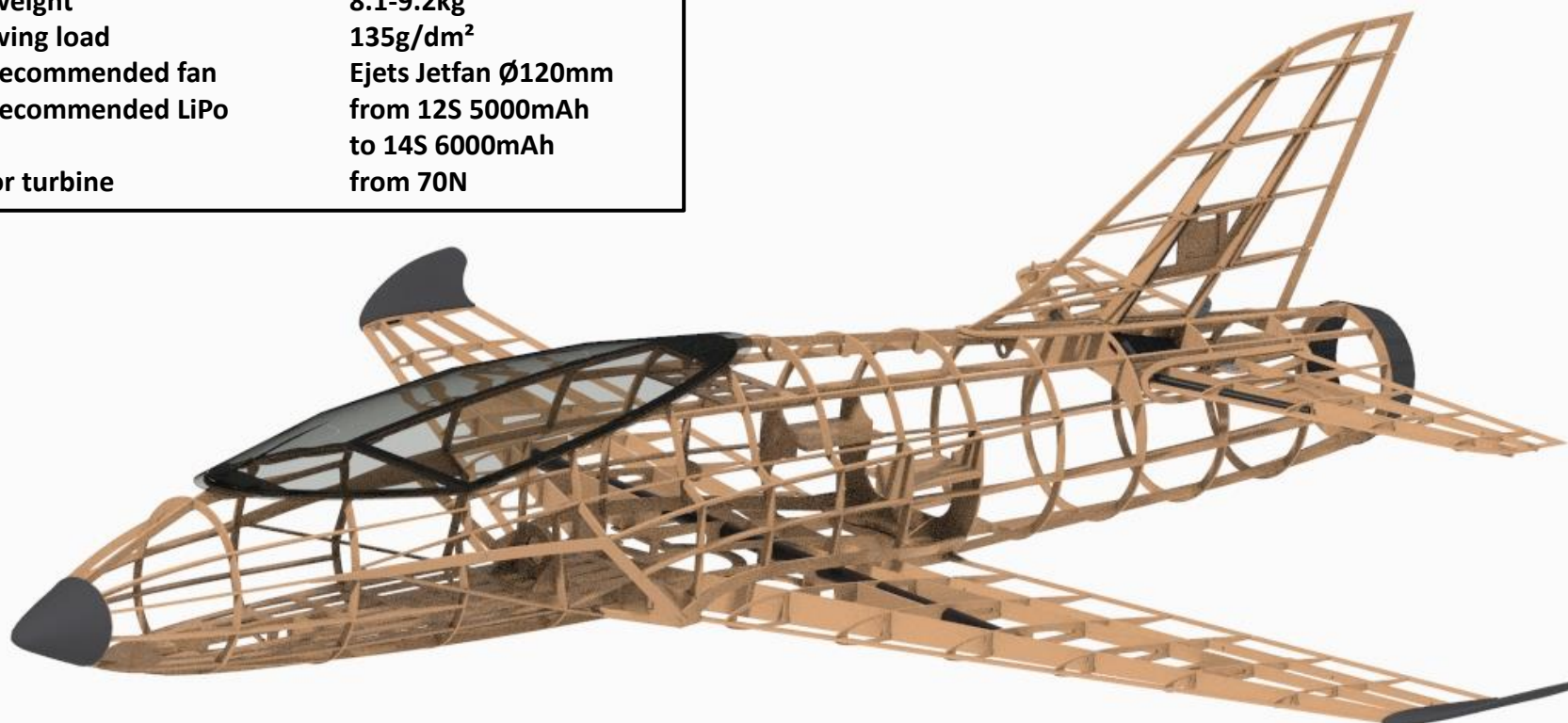




Interceptor120



| | |
|------------------|------------------------------------|
| length | 1920mm |
| wing span | 1770mm |
| weight | 8.1-9.2kg |
| wing load | 135g/dm ² |
| recommended fan | Ejets Jetfan Ø120mm |
| recommended LiPo | from 12S 5000mAh to 14S 6000mAh |
| or turbine | from 70N |





general information



Thank you for choosing a kit from tomjets and thank you for your trust! Kits from tomjets are not only unique in their design and flight characteristics, but also focus on building as a new experience. Let yourself be surprised!

The Interceptor120 is a classic sport jet with a modern design. Using a 120mm fan or alternatively a turbine from 70N, it goes through all flight maneuvers masterfully. The Interceptor120 offers endless fun for an affordable budget. With its size it can already be considered as a grown up sports jet. The main wing is divisible and the elevators as well the rudder can be removed.

For the sake of order, it should be mentioned that it is by no means a toy and that careful construction and flight are required. The responsibility for ensuring safety is entirely with the builder or pilot.

The use of tools is limited to the following: Stanley knife, steel lineal, foil iron, multifunction tool (cutting, grinding, drilling), soldering iron, pins, clamps, brushes, cable ties, paper tape, sandpaper, superglue, white glue, 5min epoxy resin, etc....

Please note that due to constant development, your kit may differ slightly from the images shown.



jet kit content



| description | comment | pcs. |
|-------------------------------|---------------------------------|------|
| poplar plywood 3mm | plate 1-8 | 1 |
| balsa sheets 2mm | plate 1-8 | 1 |
| fiberglass parts 1,5mm | control horns, canopy latch,... | 1 |
| aircraft plywood 0,4mm | trailing edge, templates,... | 1 |
| birch plywood 2mm | servo covers | 1 |
| canopy | 0,75mm PET-A | 1 |
| wing spar | CFRP 10x8x1000 | 1 |
| main wing spar | CFRP Ø 18 mm, 1 m | |
| nozzle | 3D print ABS | 1 |
| nose cone | 3D print ABS | 1 |
| wingtip lhs. | 3D print ABS | 1 |
| wingtip rhs. | 3D print ABS | 1 |
| tail support | 3D print ABS | 1 |
| canopy lock | neodymium magnet D10x3 | 8 |
| rudder hinges | D2.5xL43xW10mm | 21 |
| balsa blocks | for hinge bonding | 42 |
| flat headed screw M4x20 | for main wing screwing | 2 |
| drive-in nut M4x6 | for main wing screwing | 2 |
| flat headed screw M2,2x10 | for servo covers | 28 |
| wood screw M3,5x13 | for retracts screwing | 12 |
| triangular balsa strip 8mmx1m | for controll surface champfer | 2 |
| nail 1.2 x20mm | for gear door hinge | 2 |
| drive-in nut M3x5 | elevators and rudder locking | 3 |
| screw M3x10 | elevators and rudder locking | 3 |



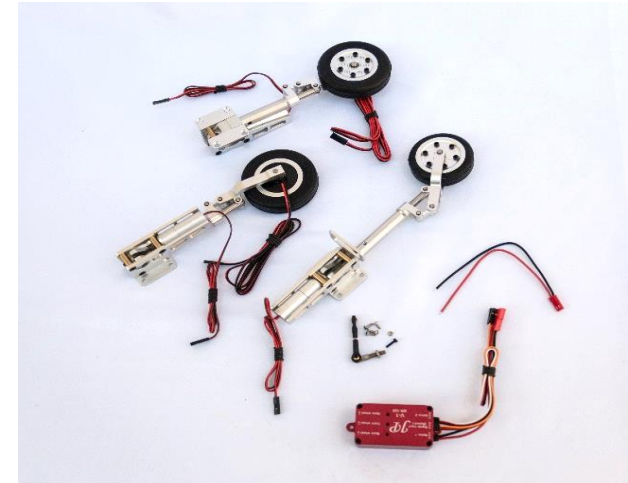


optional content



Interceptor120 gear kit

| description | comment | pcs. |
|--|--|------|
| Metal Struts Set + Brakes + Controller | JP Hobby ER-120 Tomjets Interceptor120 1.76m | 1 |



Interceptor120 decals kit

| description | comment | pcs. |
|---|---------------------|------|
| high-quality fuel-resistant adhesive film | tomjets design 2025 | 2 |





Interceptor120 turbine kit

| description | comment | pcs. |
|-------------------------|-----------------------|------|
| 1l bagtank | fully assembled | 1 |
| thrust pipe | 620mm D70 | 1 |
| sheetmetal tabs | for thrust pipe mount | 2 |
| drive-in nut M3x5 | for tank mount | 2 |
| flat headed screw M3x10 | for tank mount | 2 |



Interceptor120 EDF kit

| description | comment | pcs. |
|-----------------------------|---------------------------------|------|
| thrust pipe | 0,5mm PET lasercut and engraved | 1 |
| airintake duct left + right | 3D print ABS | 2 |
| velcro 20x400 mm | for battery mount | 2 |
| anti-slip pad ca. 20x20cm | for battery mount | 1 |





remove the wood parts

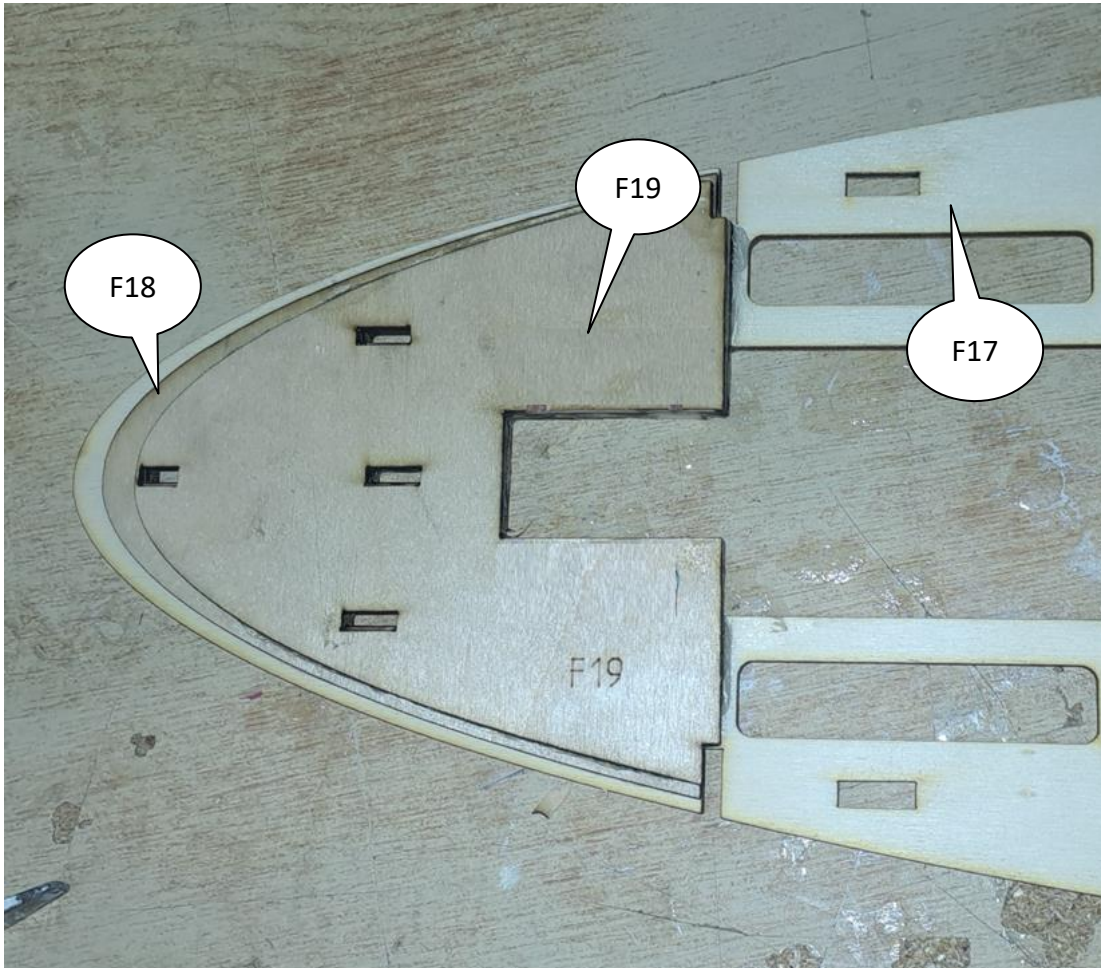


H=helling
F=fuselage
W=wing
E=elevator
R=rudder
C=canopoy
S=servo
G=gear door

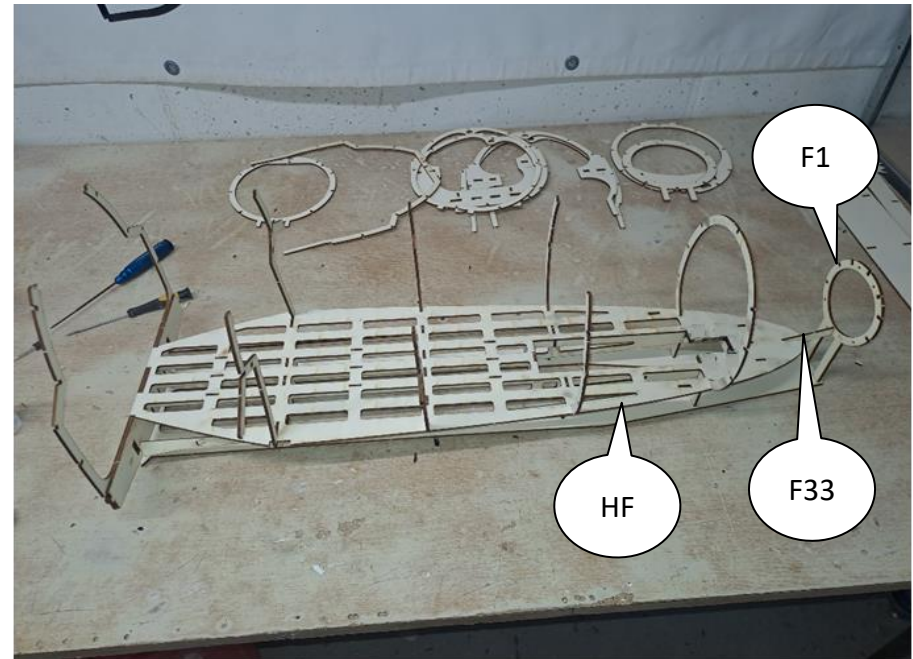
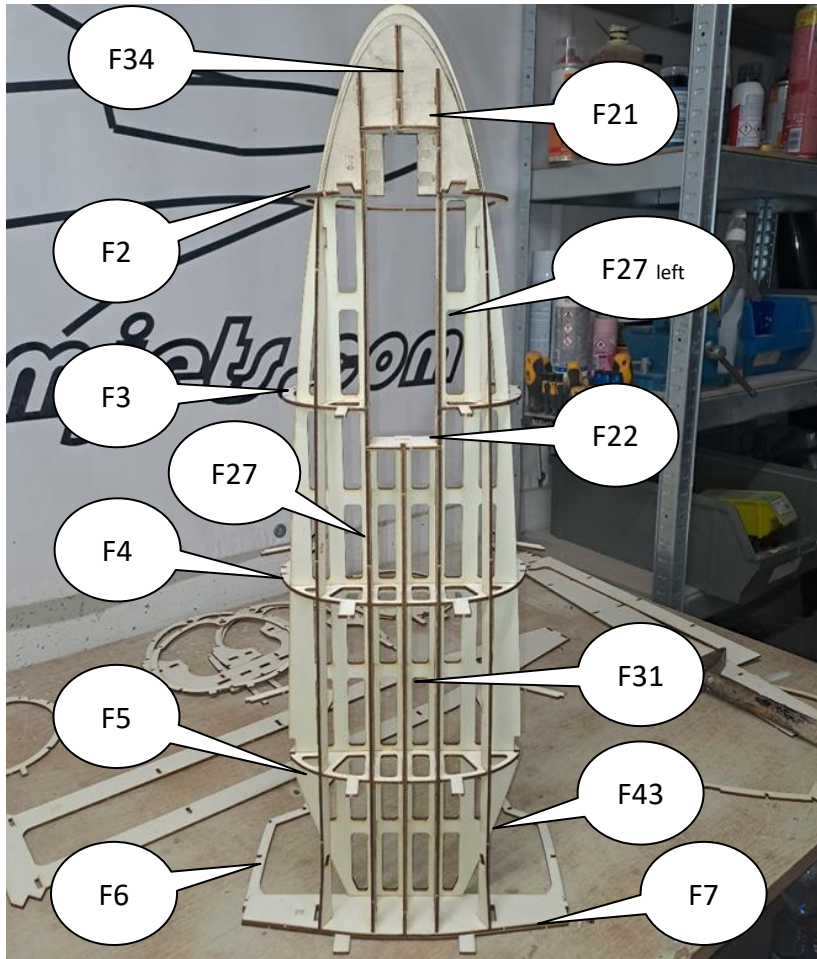



handle with care

fuselage front

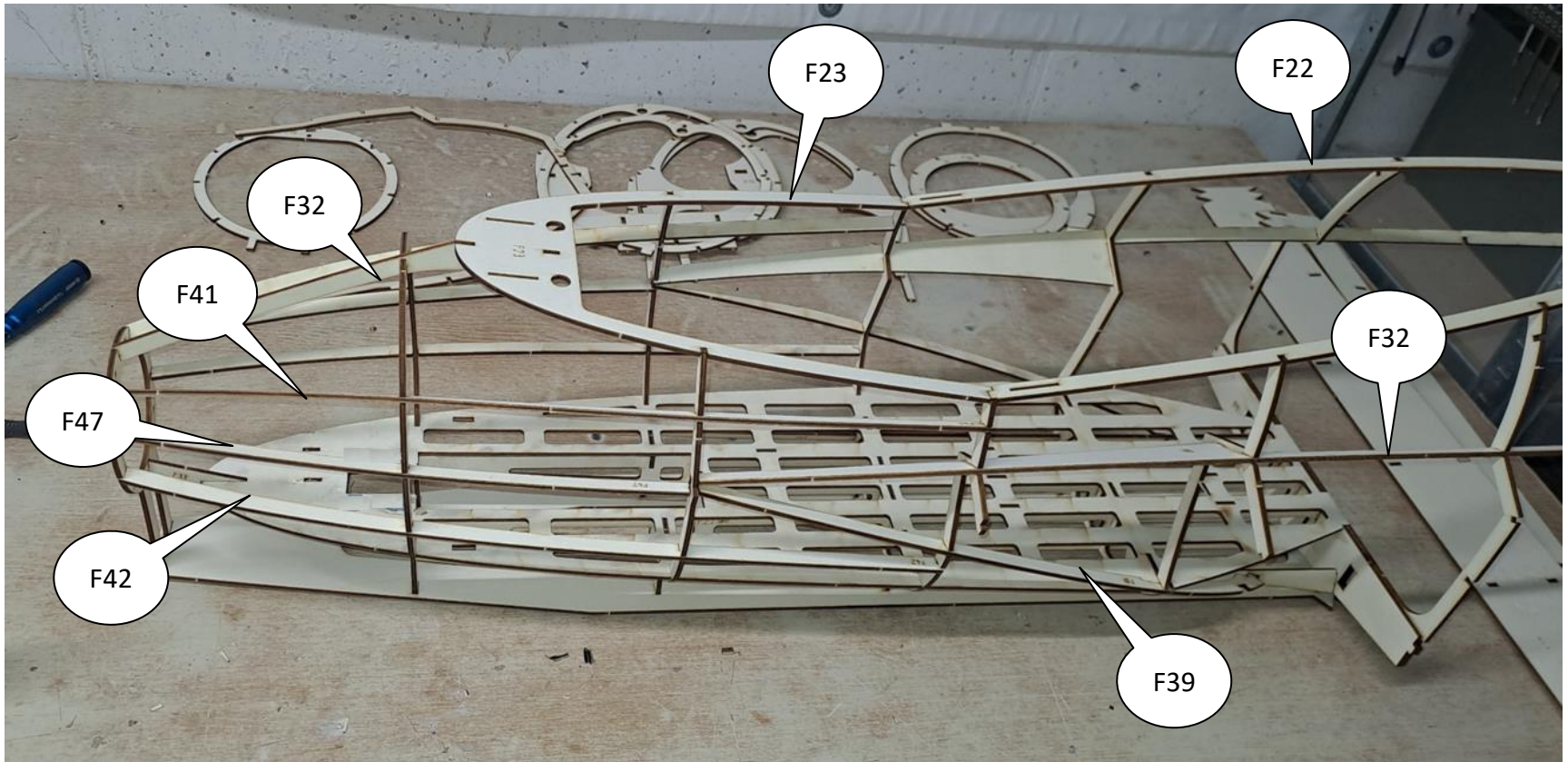


fuselage front

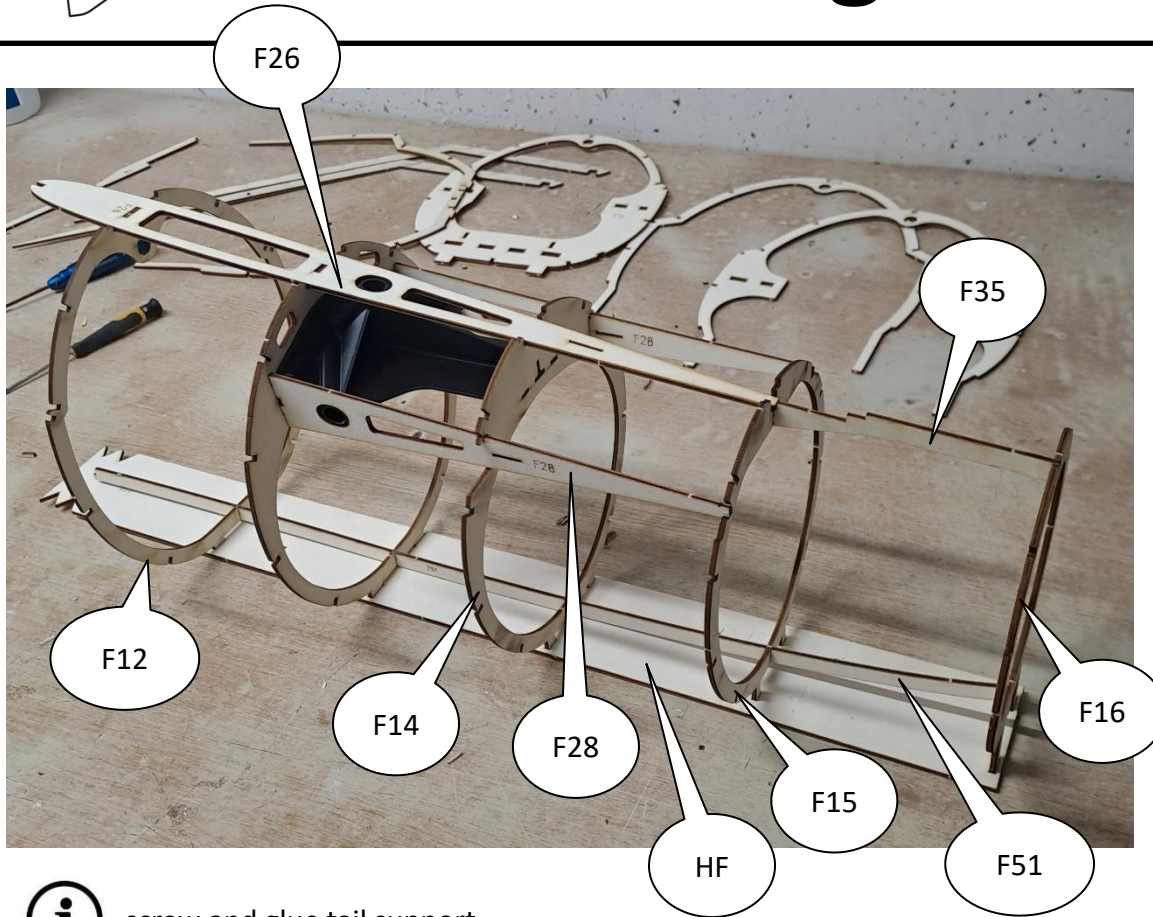


 don't spend too much effort on aligning the fuselage; it will work itself out

fuselage front

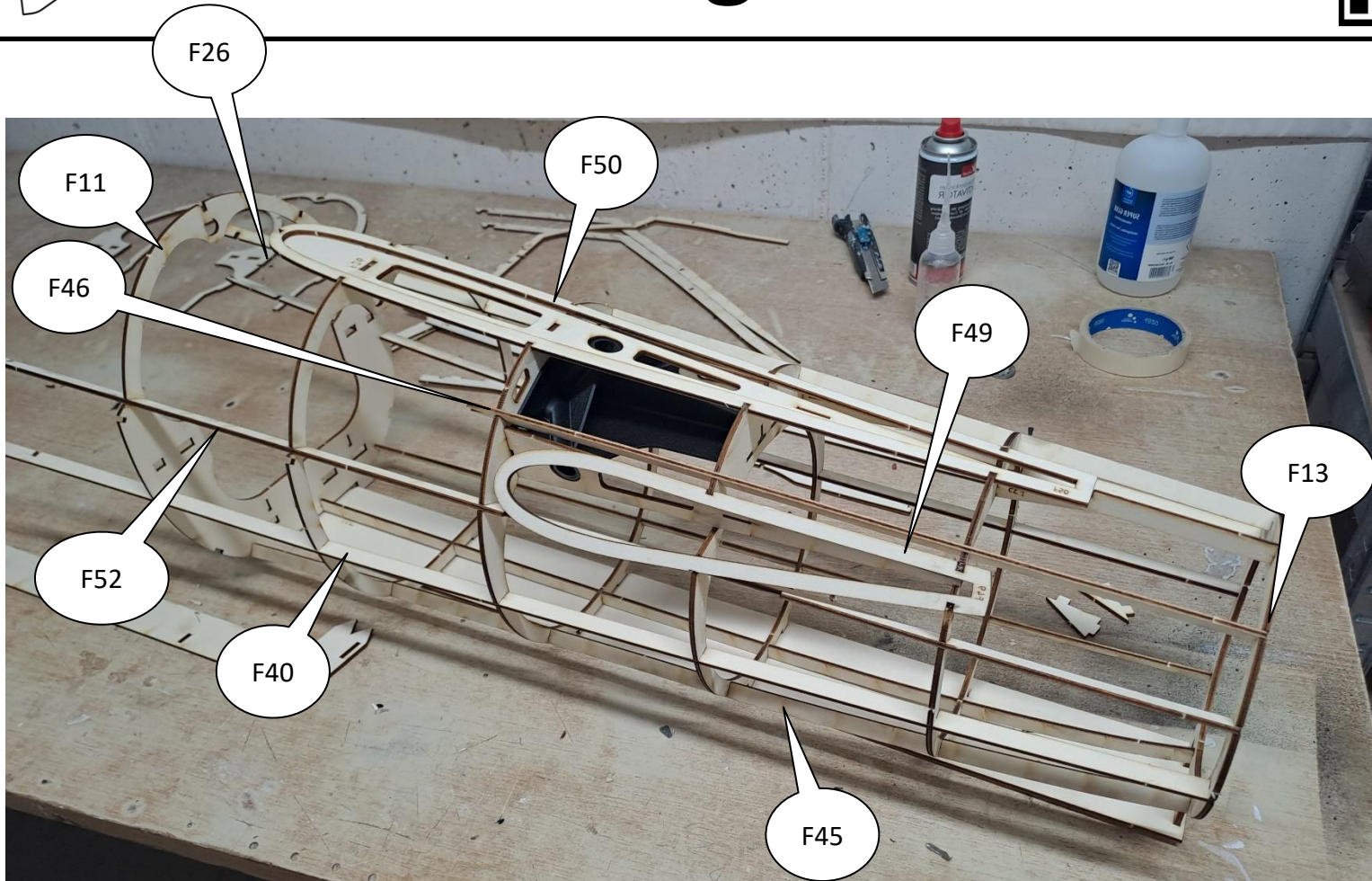


fuselage rear

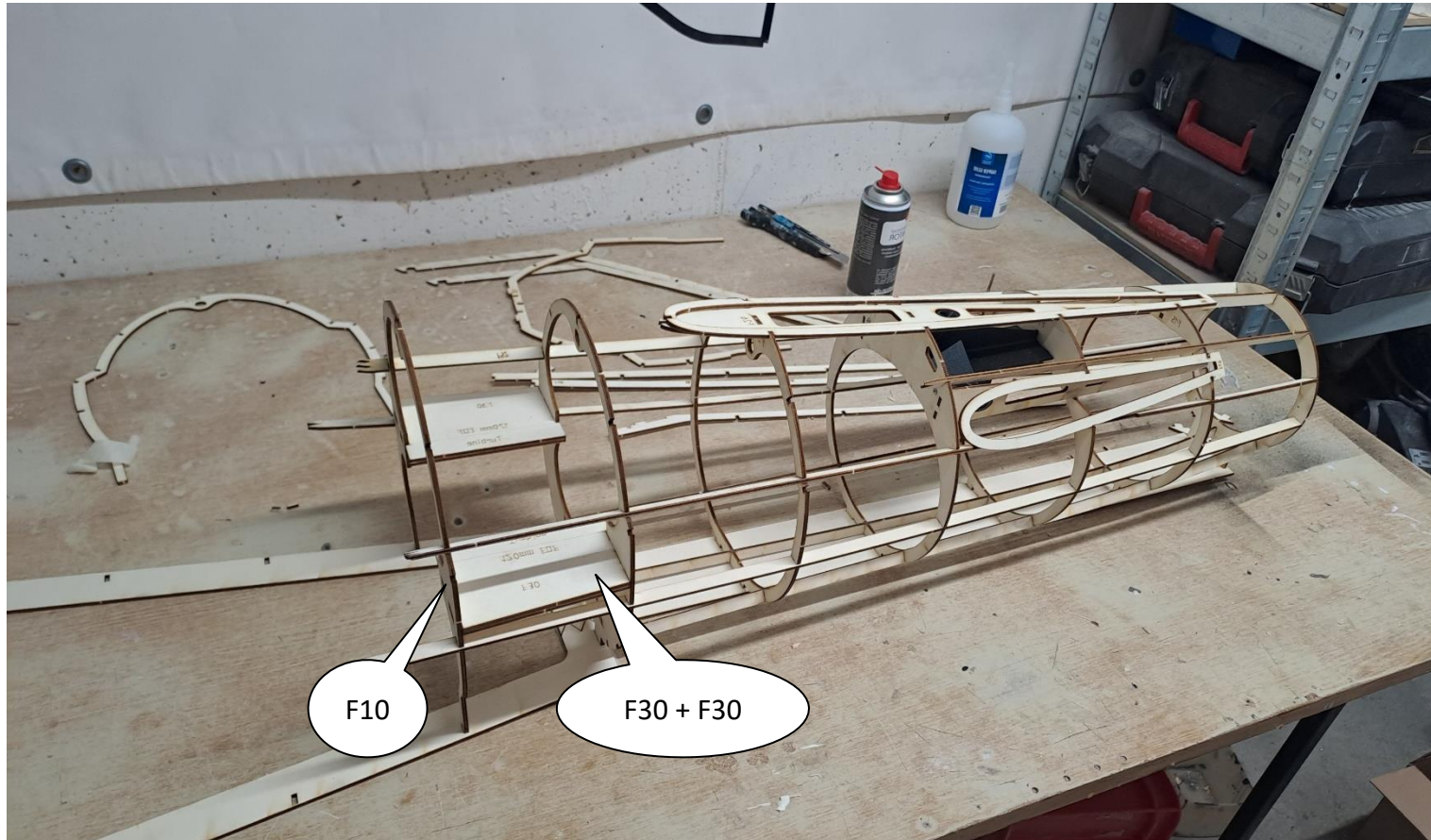


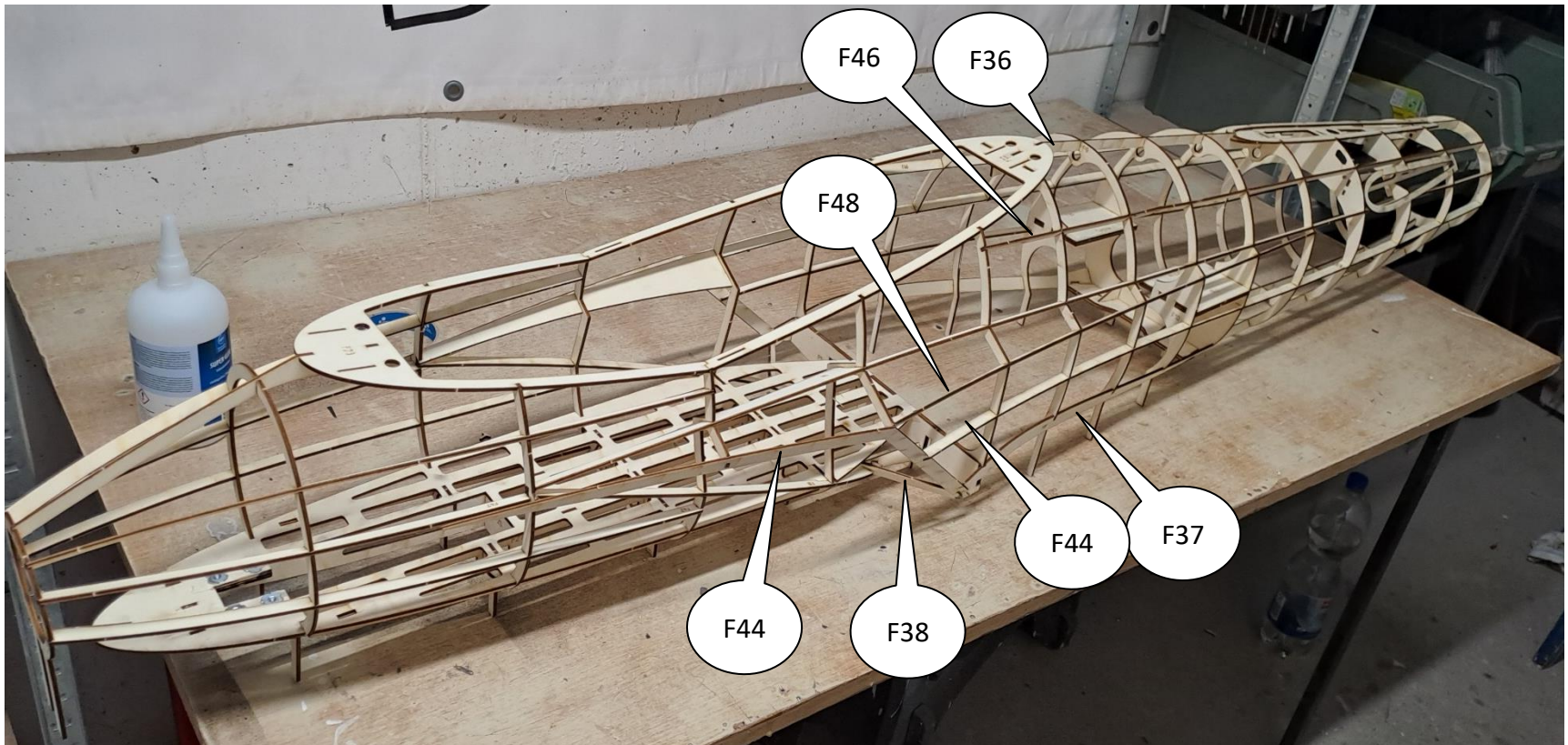
screw and glue tail support

fuselage rear

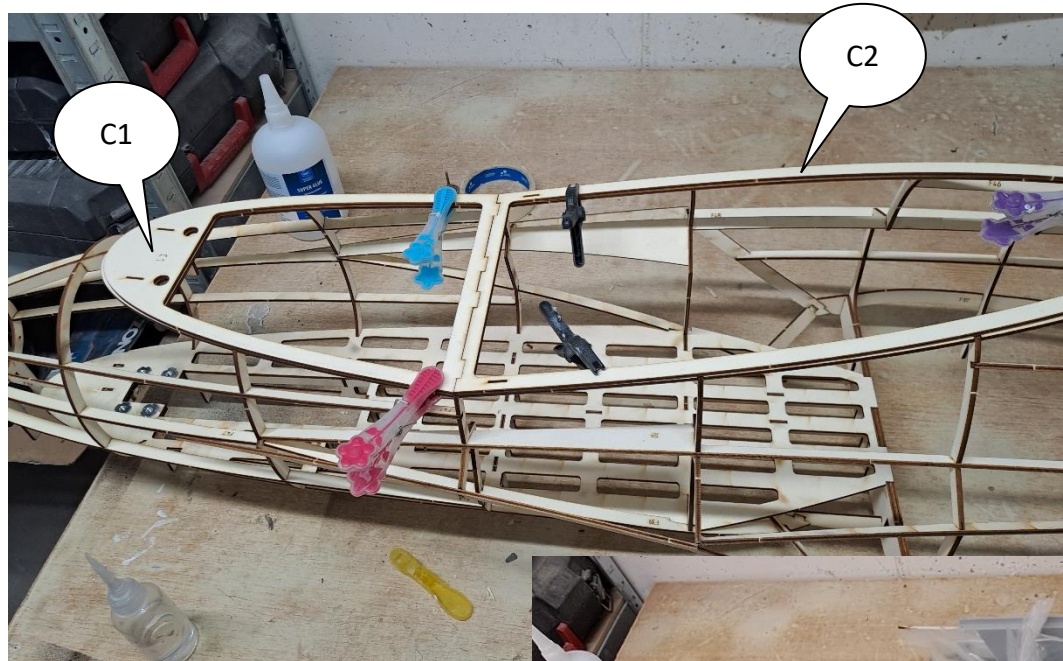


fuselage rear





canopy frame



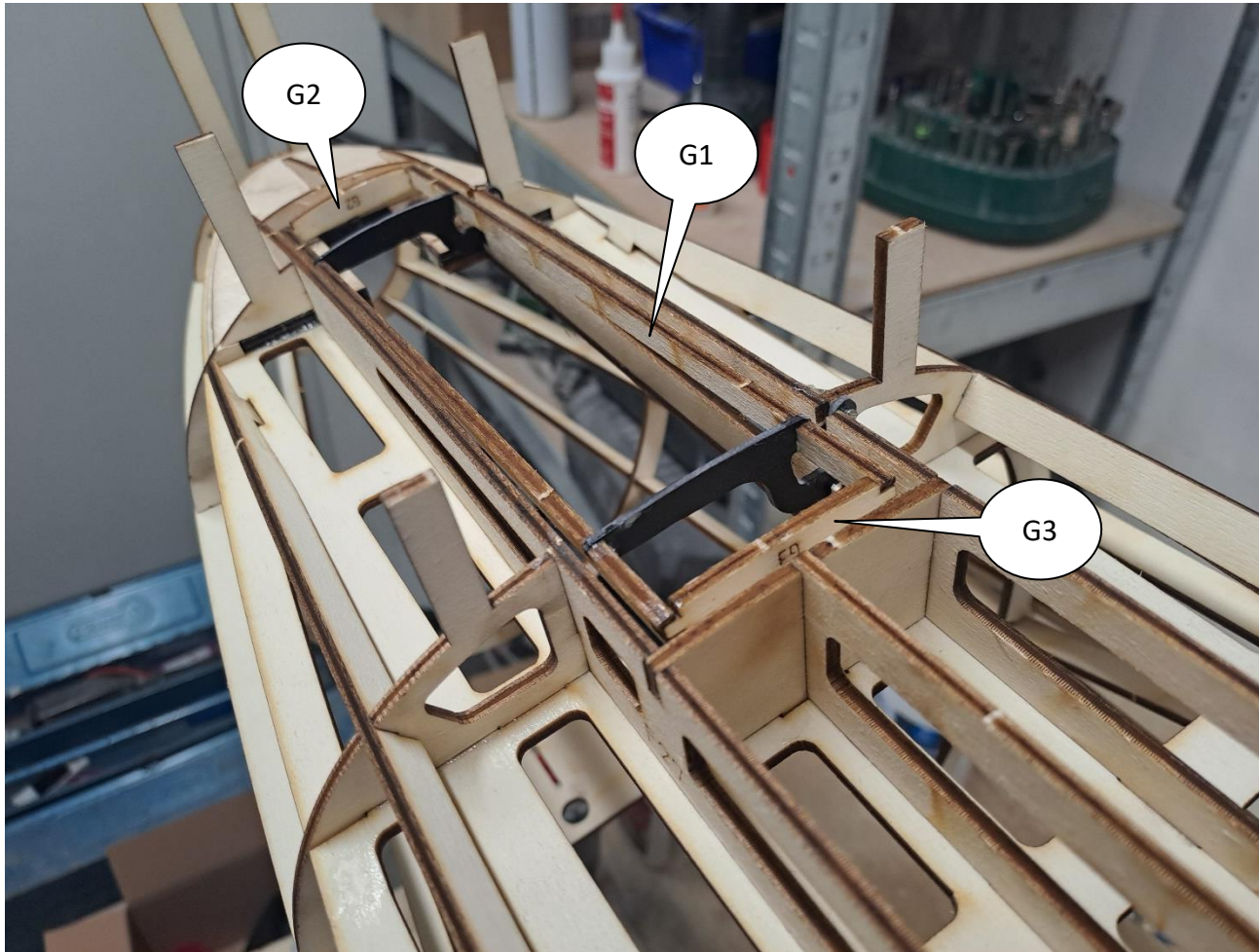
note the direction of the locking hooks





gear door



gear door



 use the 1,5mm nails as hinges

 note the difference between the cfk- parts



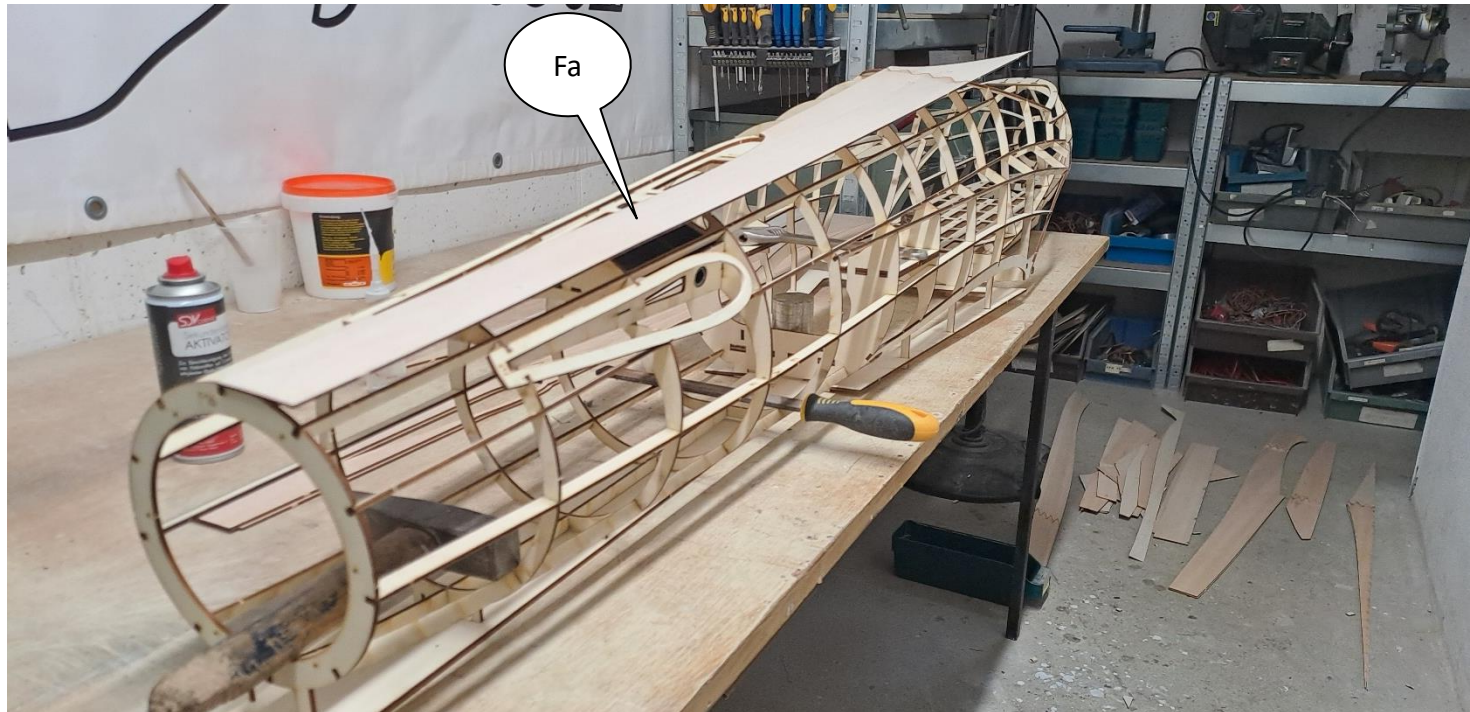
front


rear


sheeting fuselage top side



sort out all the F-parts and put together the respective parts




 start from the centerline then wrap the balsa sheets

 use CA Glue where a fast bonding is required



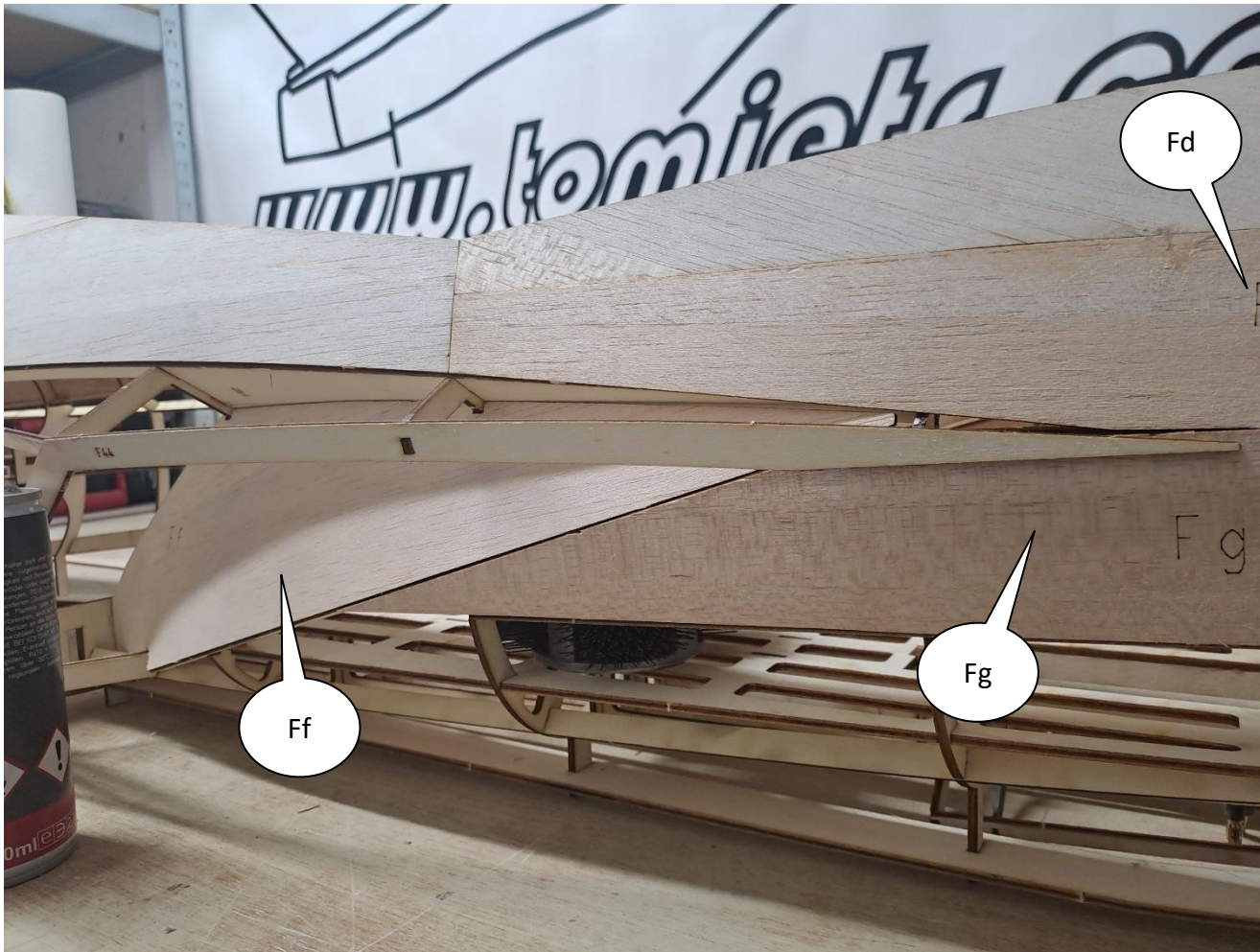
apply a sufficient amount of weight, and make sure that your fuselage is properly aligned on your building plate




 proceed in mirrored order

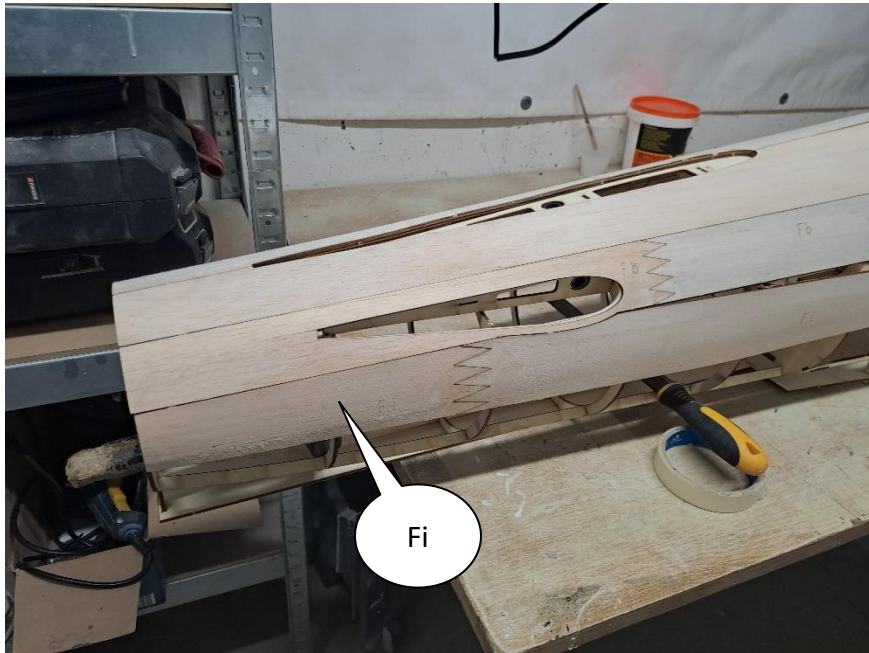
sheeting fuselage top side





 slide Fg under F44

sheeting fuselage top side



sheeting fuselage top side






sheeting fuselage bottom side

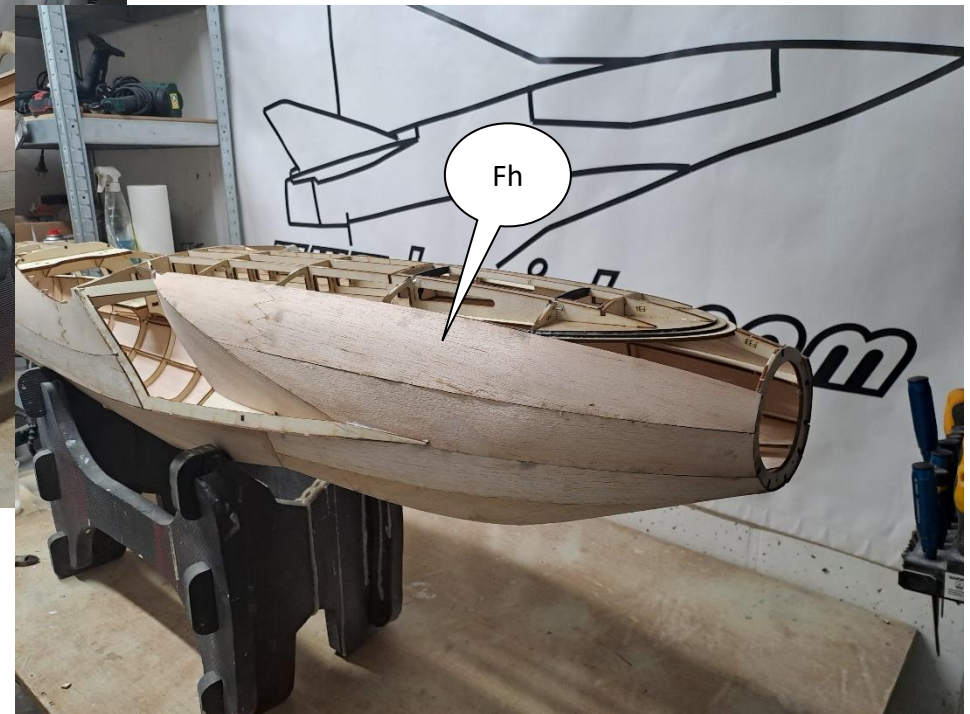
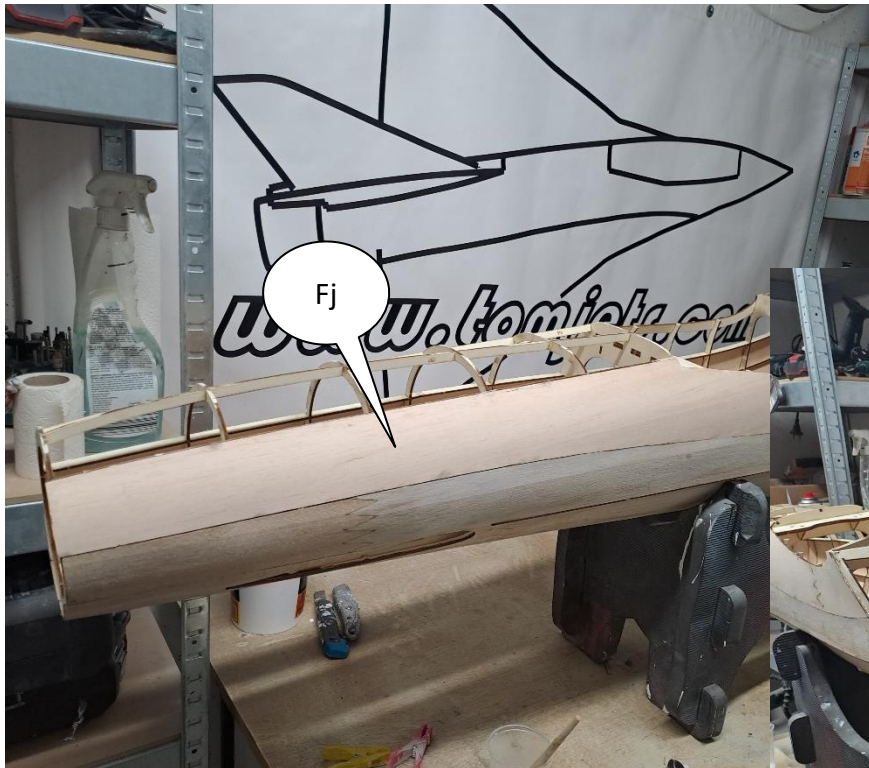


i remove fuselage from helling and cut support legs





 coat gaps with white glue, while still easily accessible




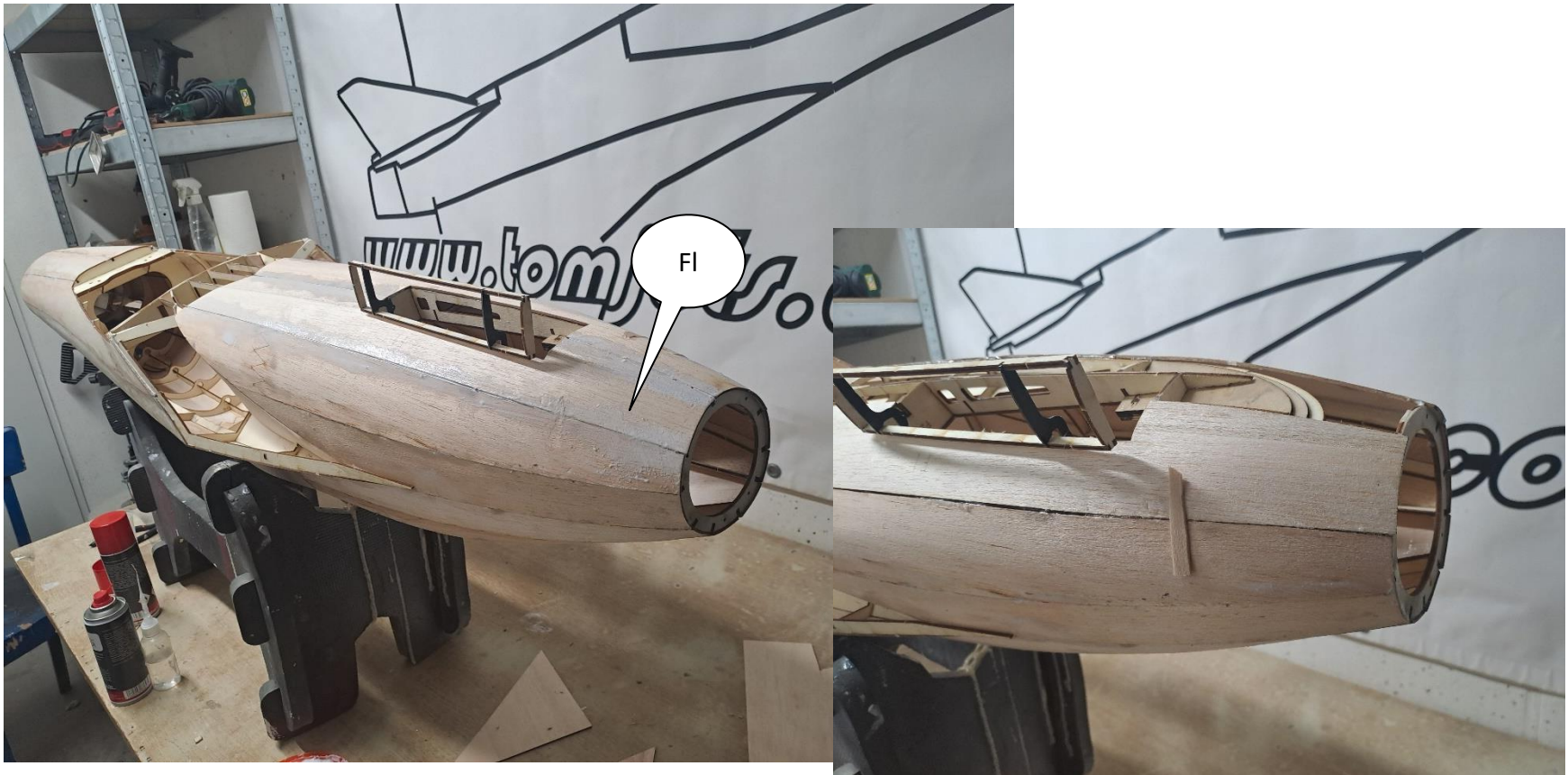



note the direction of Fk

sheeting fuselage bottom side

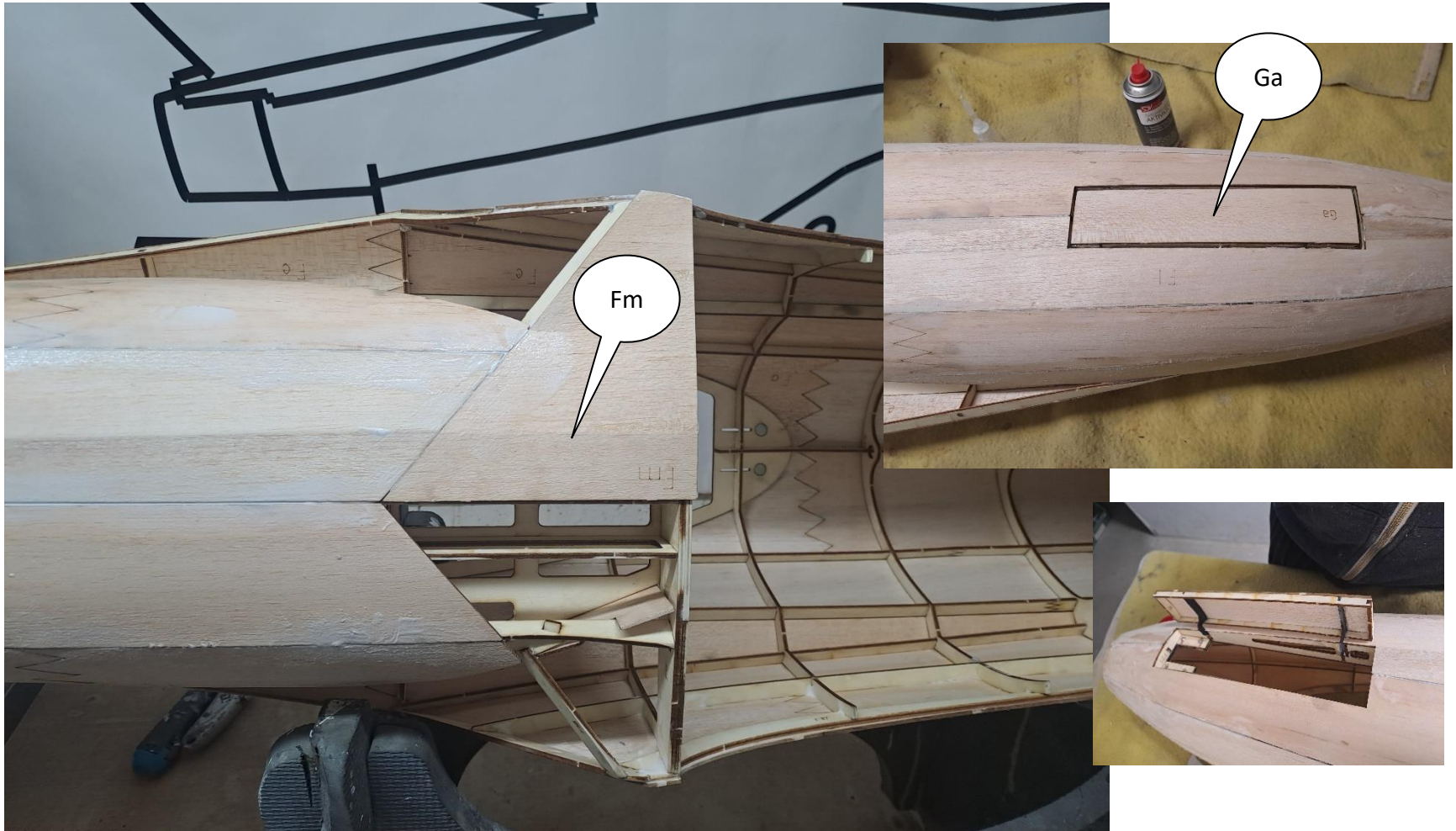


 coat gaps with white glue, while still easily accessible




 use balsa stripes for fixing tense adhesive joints

sheeting fuselage bottom side

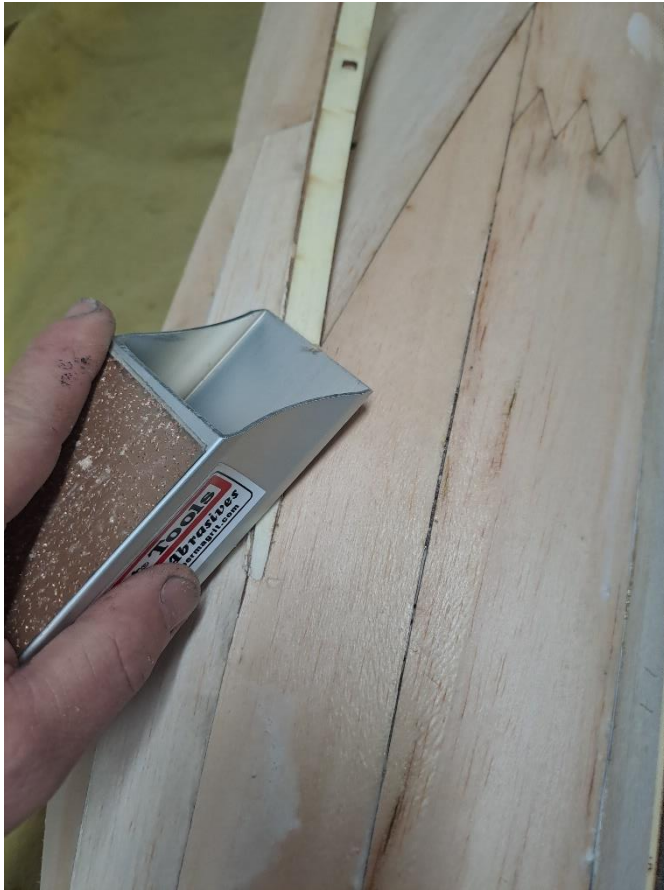


fuleage cosmetics

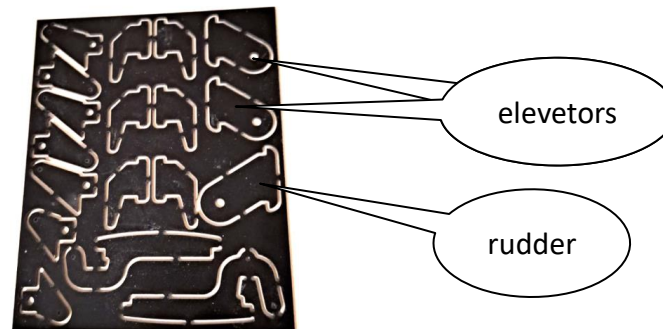


 coat gaps with white glue






tail connections

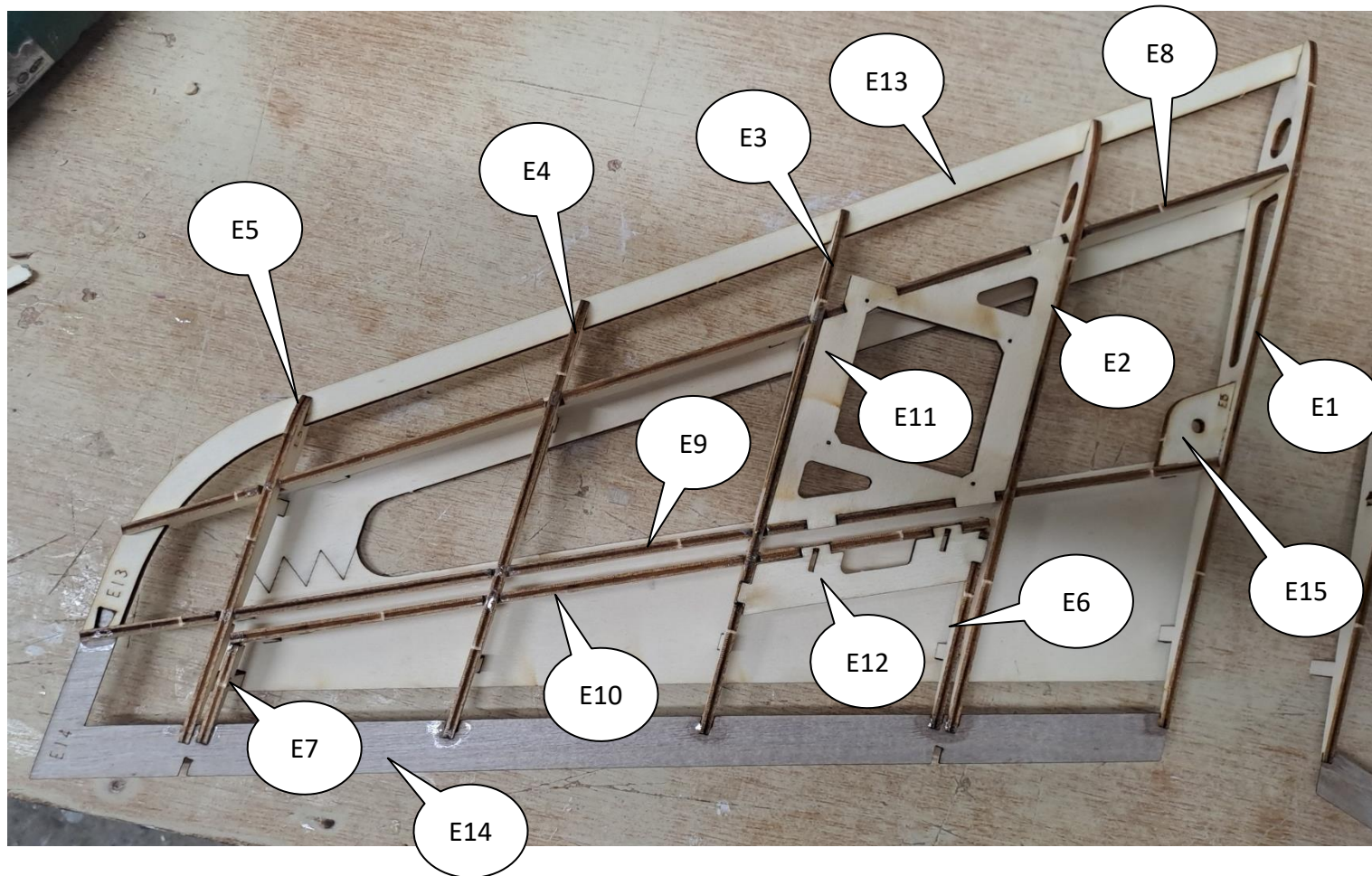


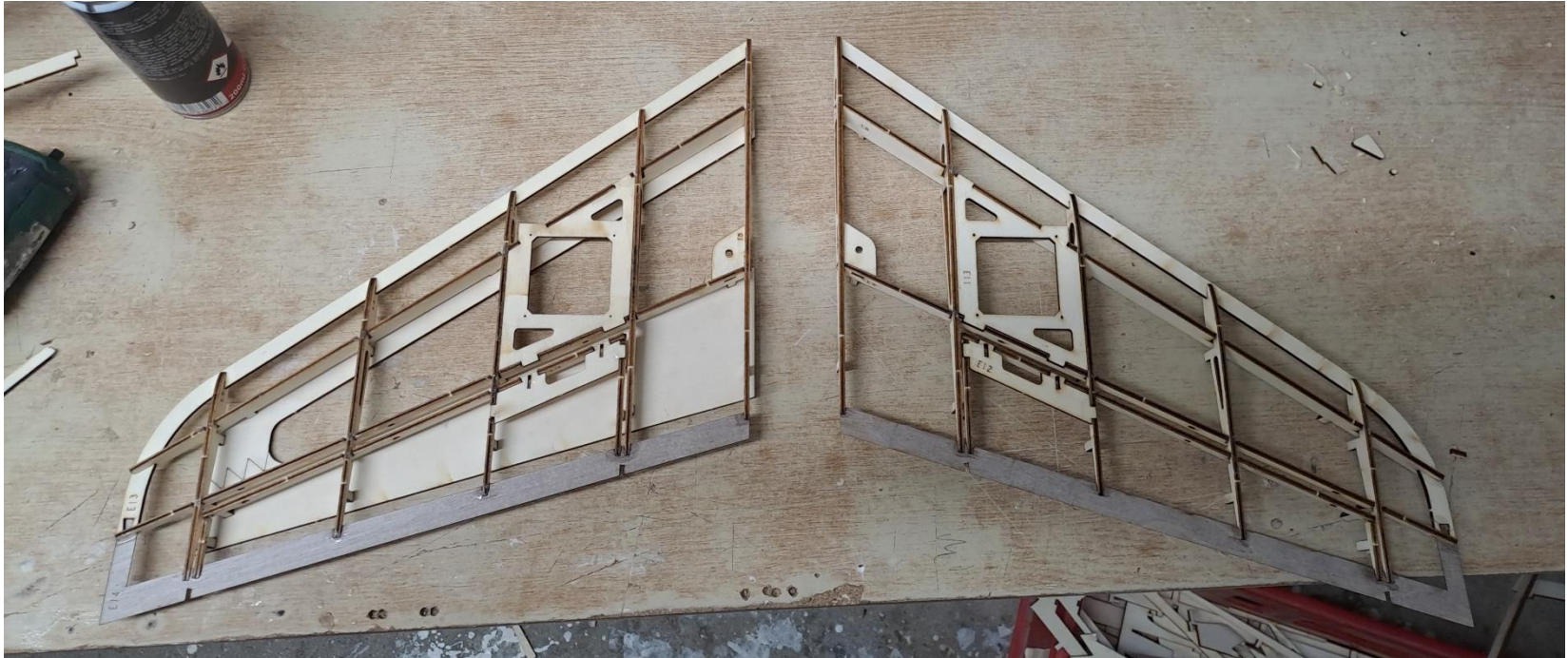
glue the canopy





 suit your canopy and use a solvent free glue


elevator frame





 only one piece of helling supplied

 mount the servo covers; it will guide the balsa sheets in the next step

 take care when mirroring the second elevator

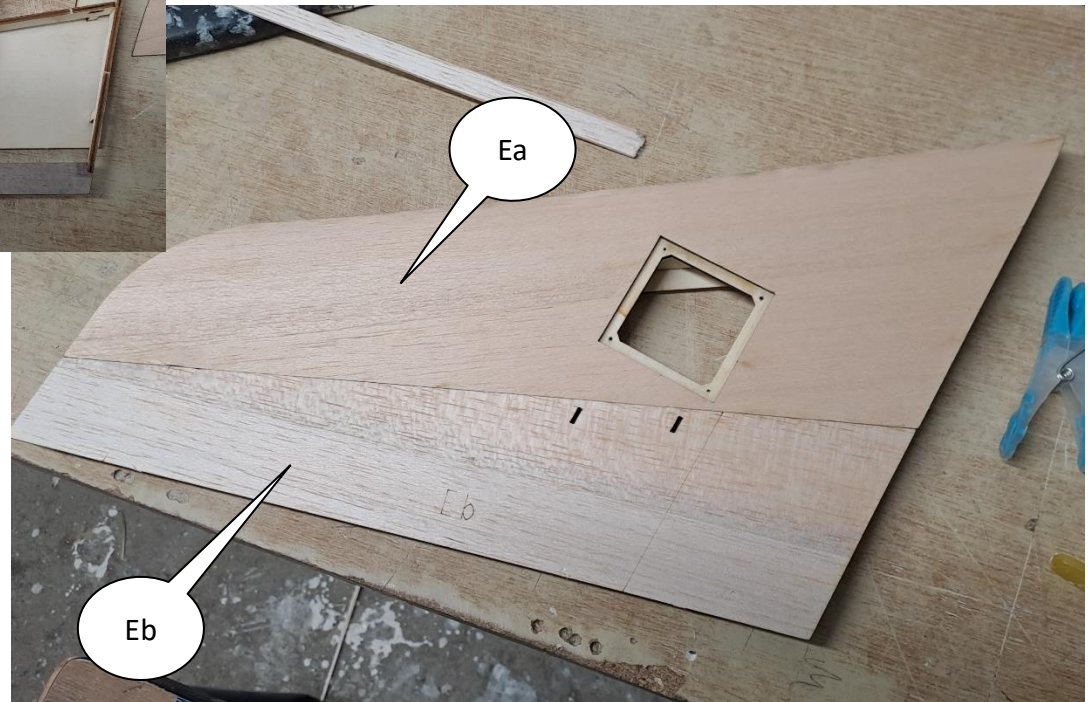
sheeting the bottom side



i mount the servo cover; it will guide the balsa sheets in the next step

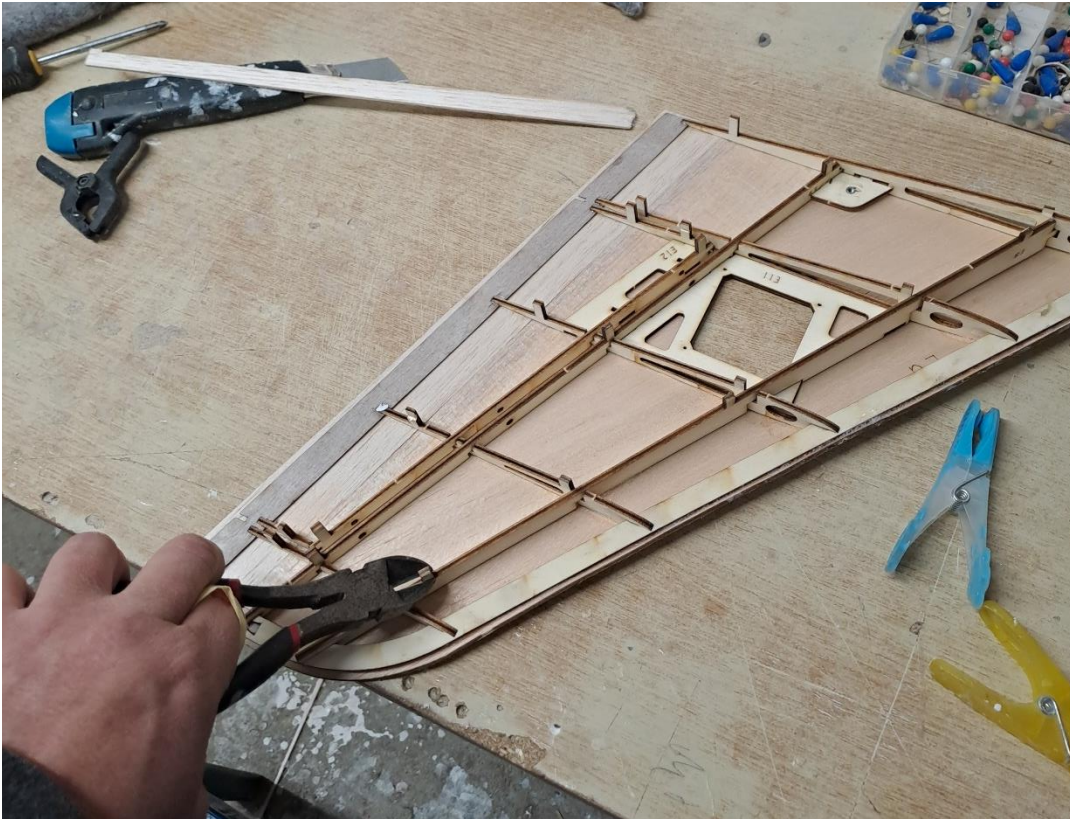


don't forget the drive-in nut







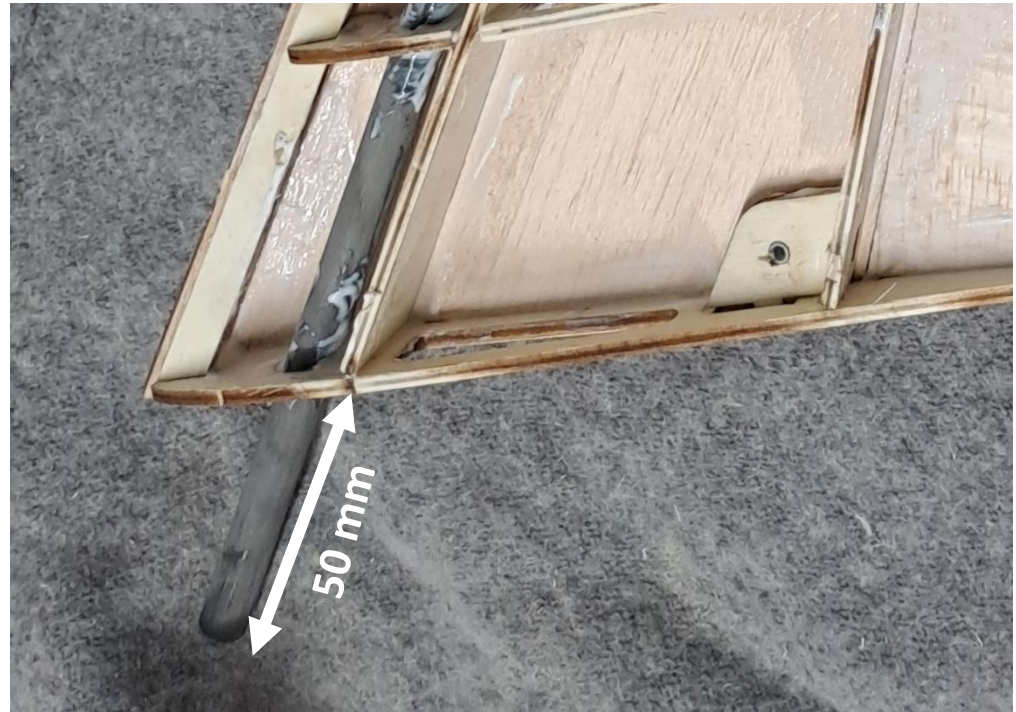
remove helling and support legs



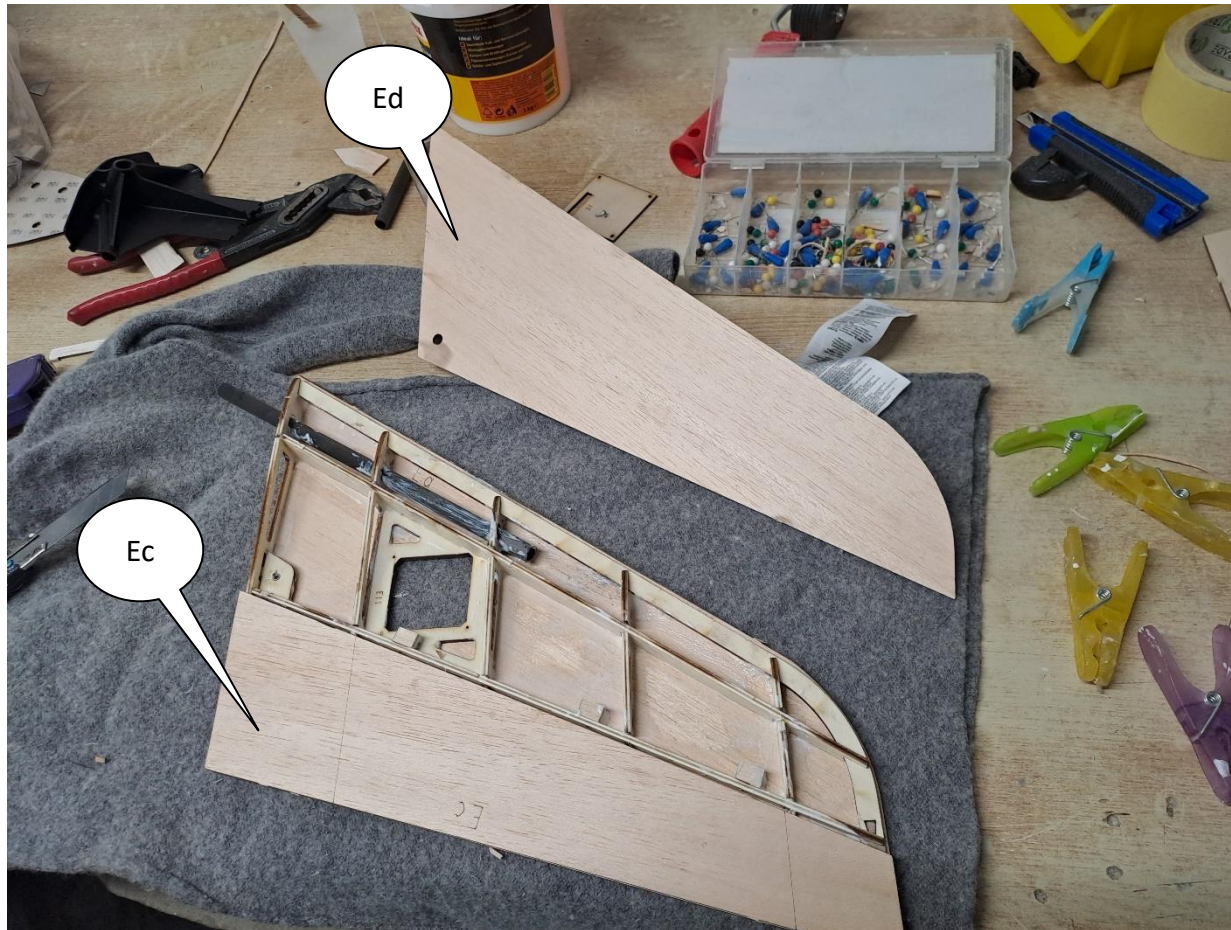
balsa blocks for the hinges



-  coat gaps with white glue, while still easily accessible
-  use a soft pad to avoid damage on the balsa surface

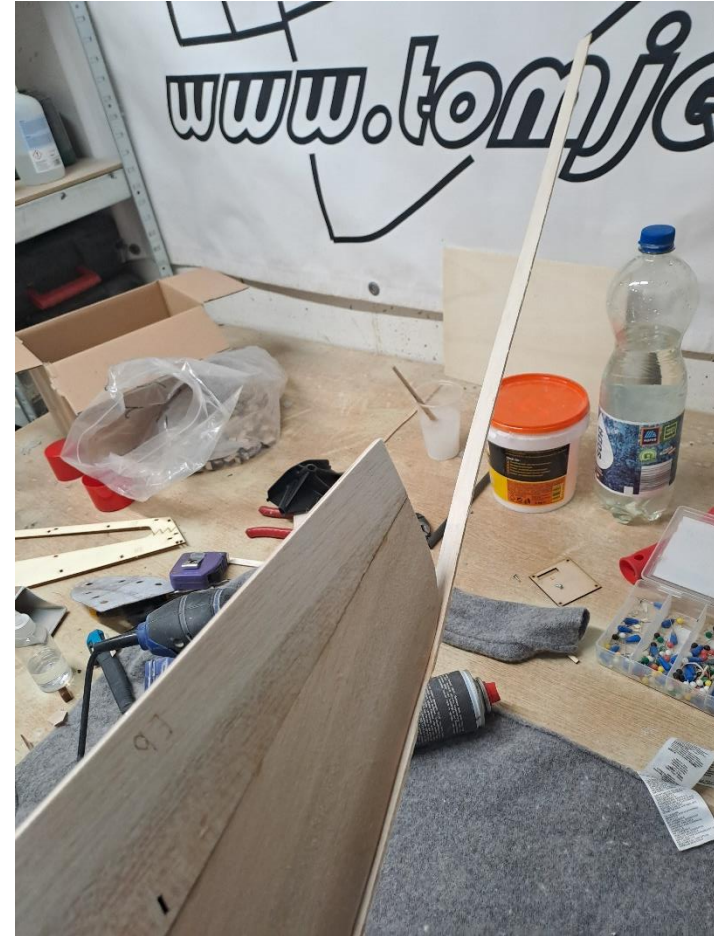




sheeting the top side



do not use weights
in order to avoid
distortion!

close the leading edge

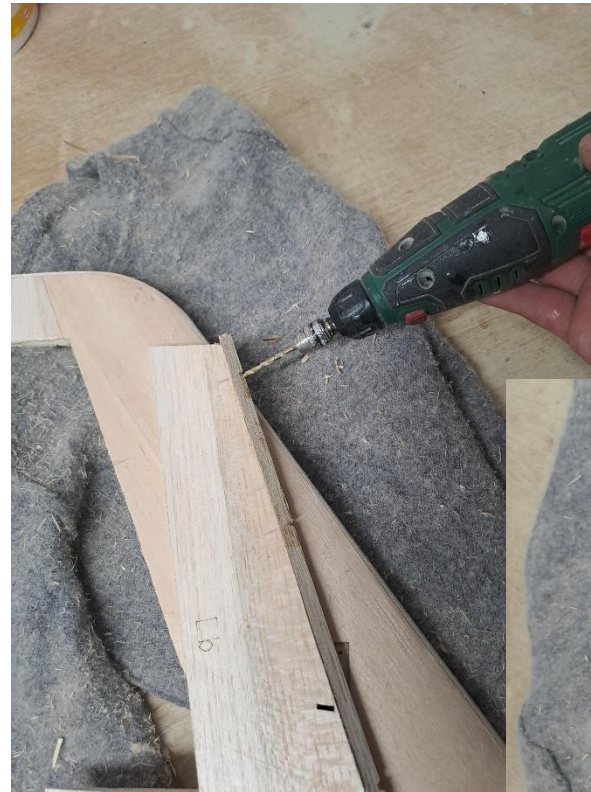


-  use balsa leftovers for closing the leading edge
-  use some tape to prevent the extended fiber from braking

sepearat the controll surface



sepearat the control surface



i mark the positions of the hinges before attaching the triangular balsa strip

i use a 3mm drill

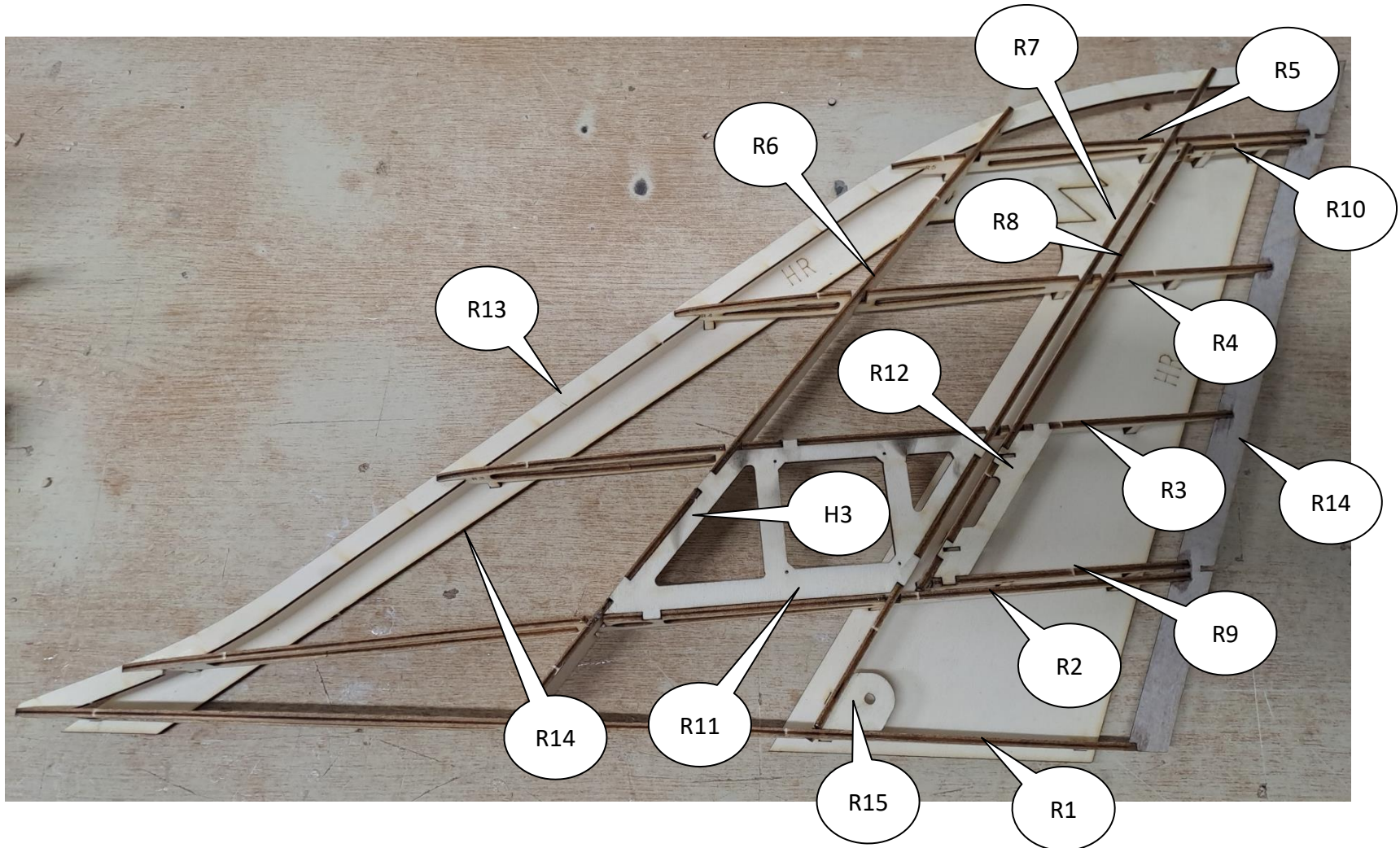


sepearat the control surface

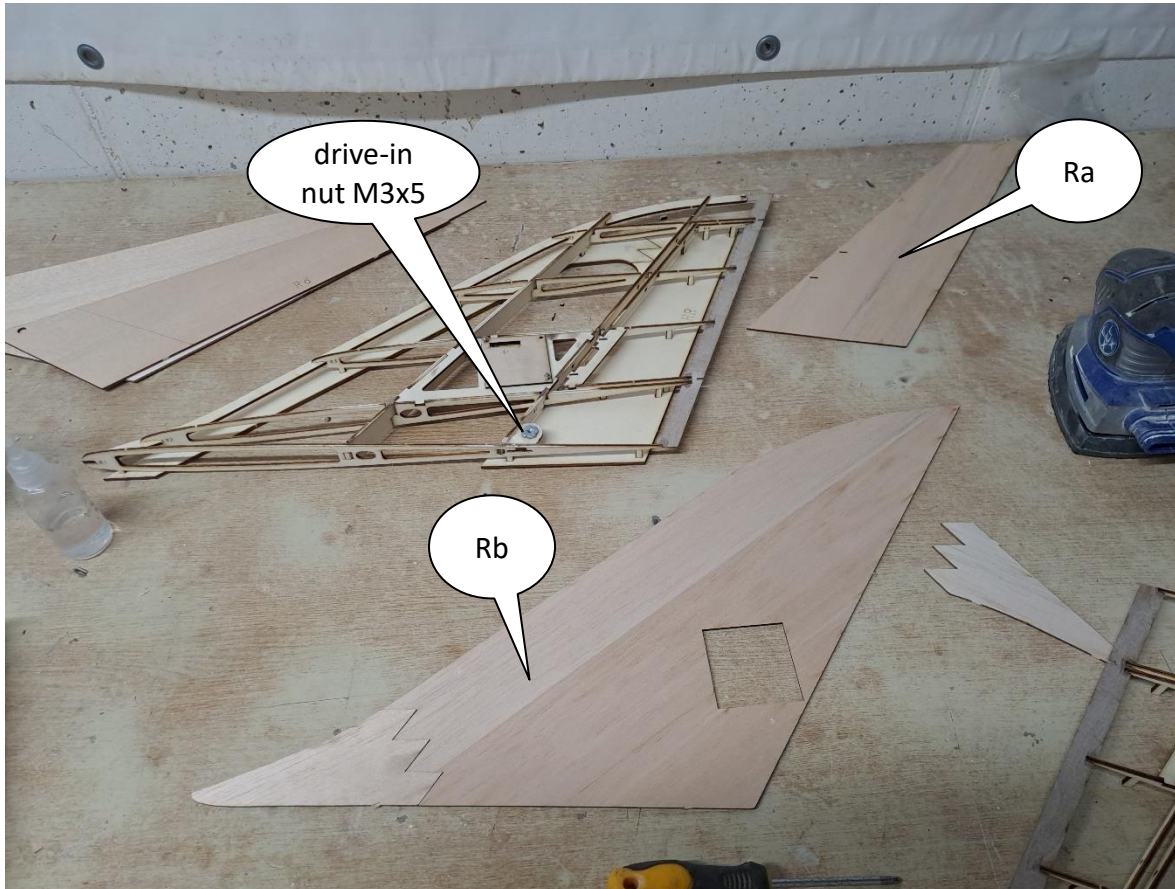


do not yet bond the hinges and the ruder horns

rudder frame



sheeting the first side



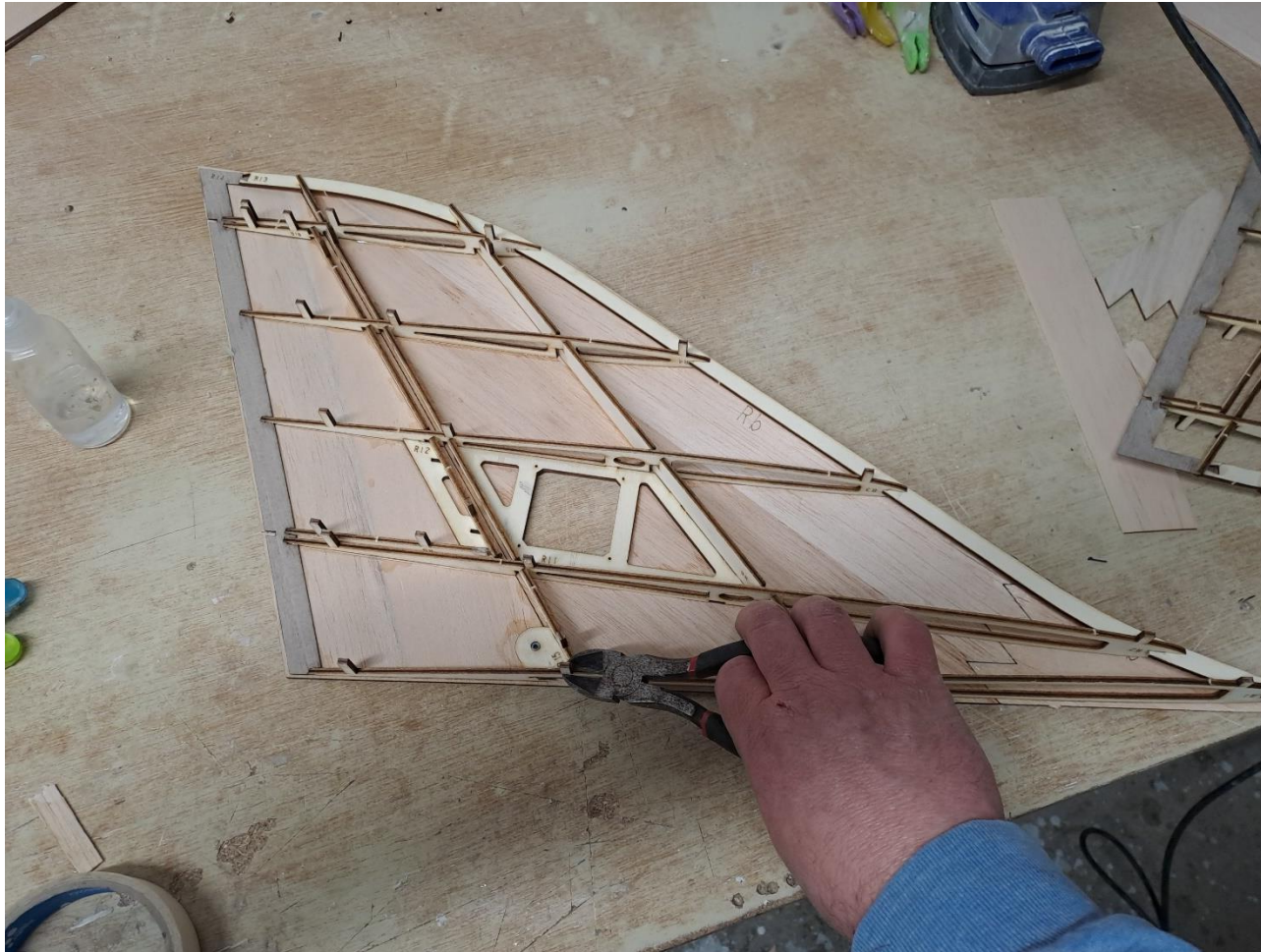
mount the servo cover;
it will guide the balsa
sheets in the next step



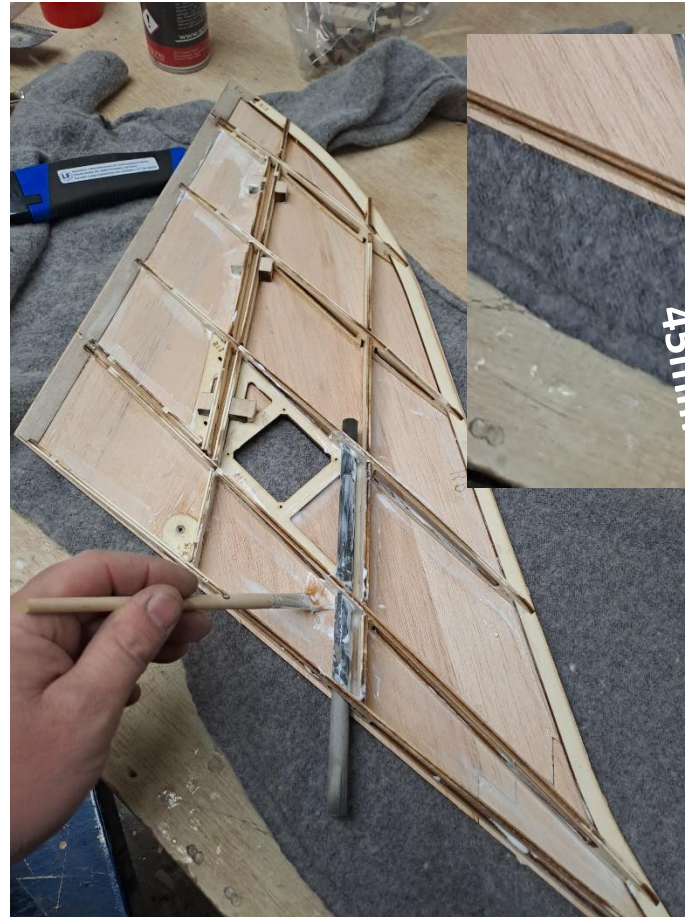
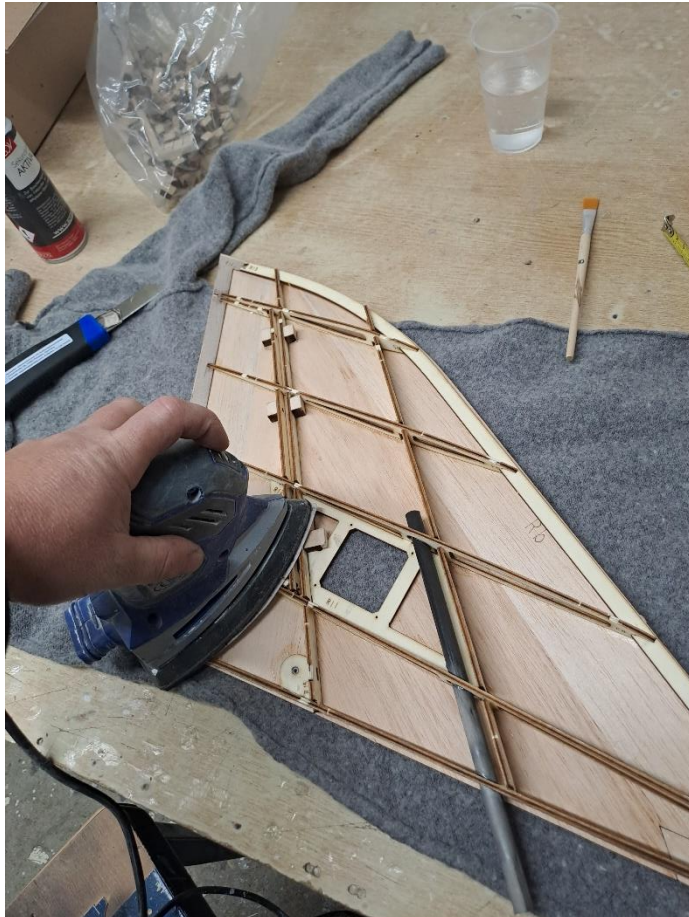
don't forget the
drive-in nut



remove helling and support legs



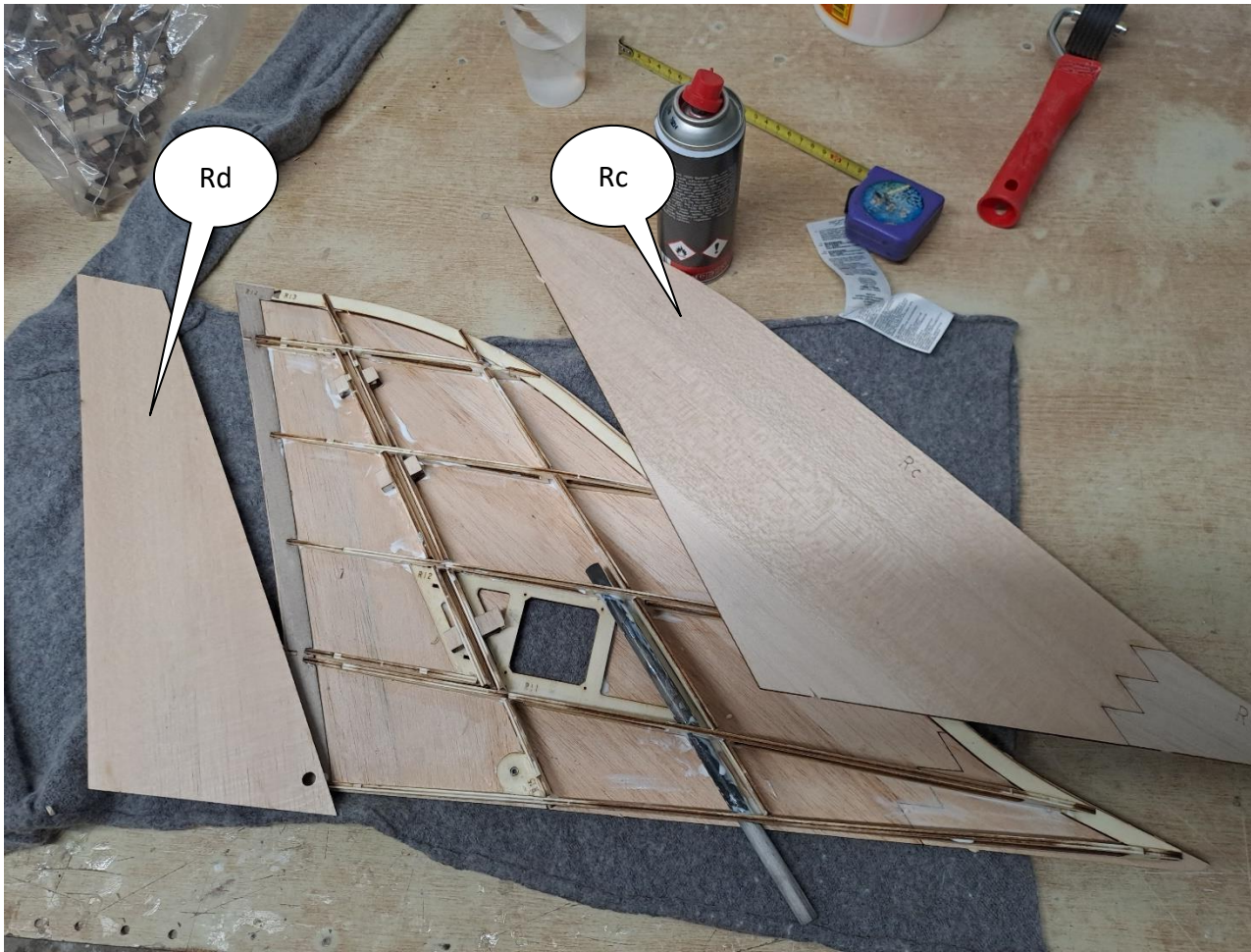
balsa blocks for the hinges



i use a soft pad to avoid damage on the balsa surface

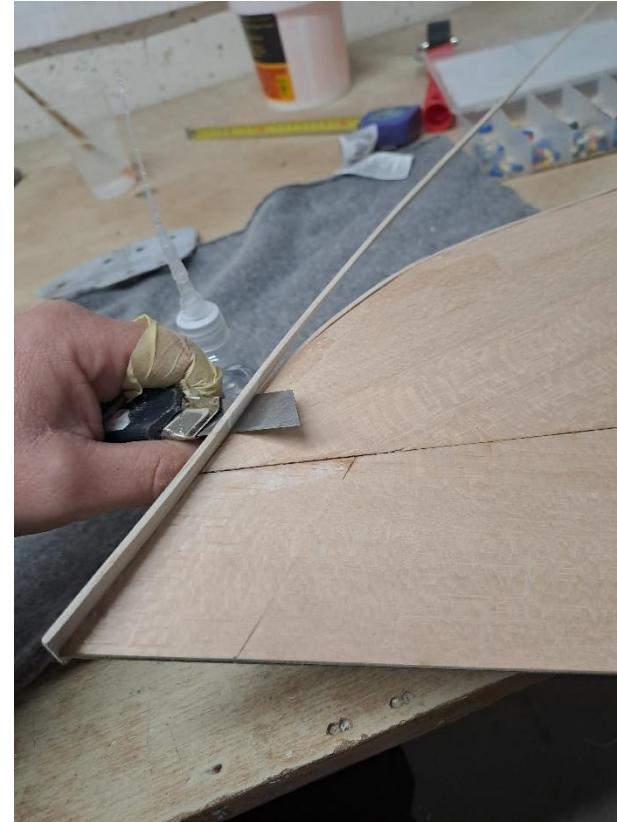
i coat gaps with white glue, while still easily accessible


sheeting the second side



do not use weights
in order to avoid
distortion!

close the leading edge



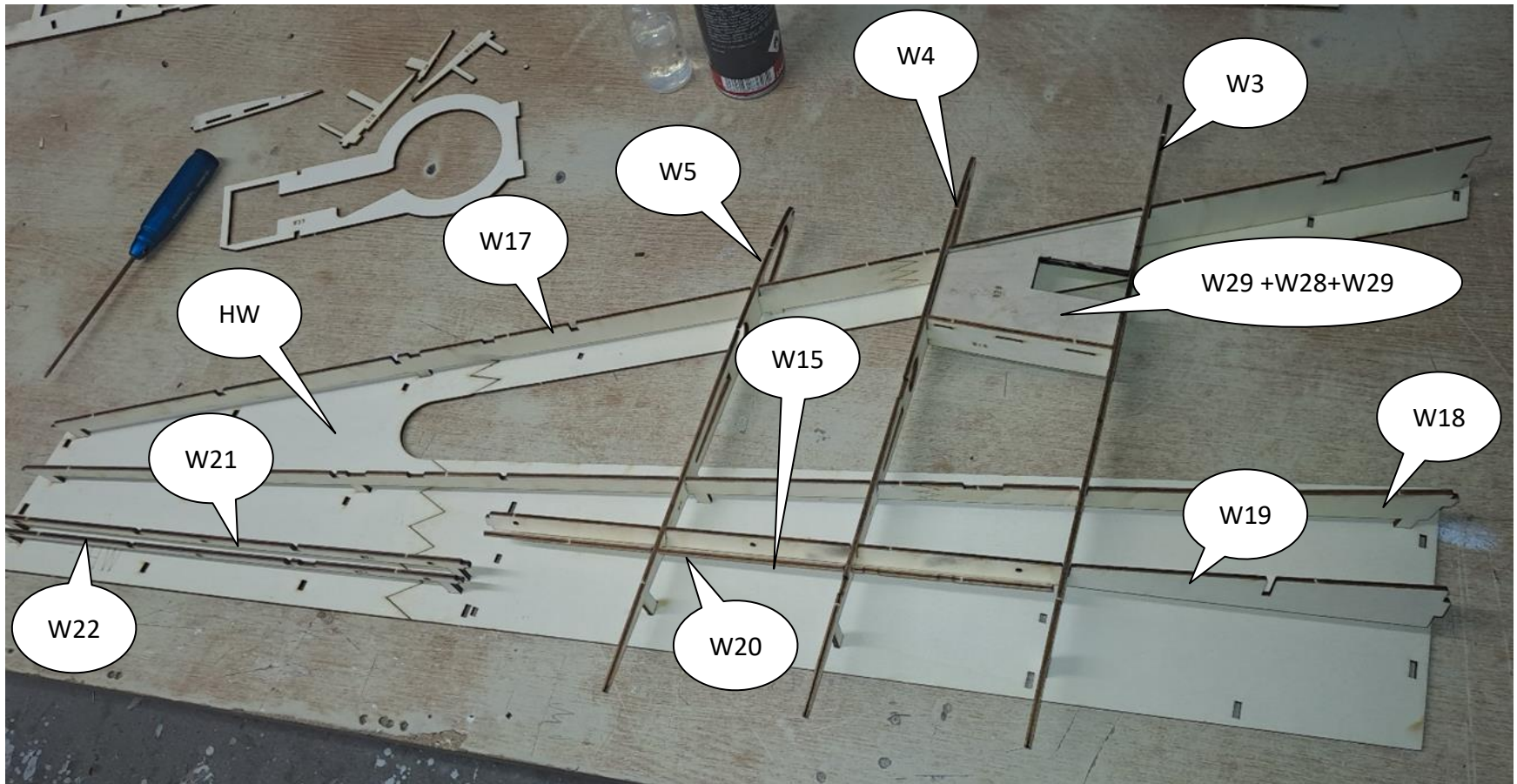
 use balsa leftovers for closing the leading edge


rudder cosmetics



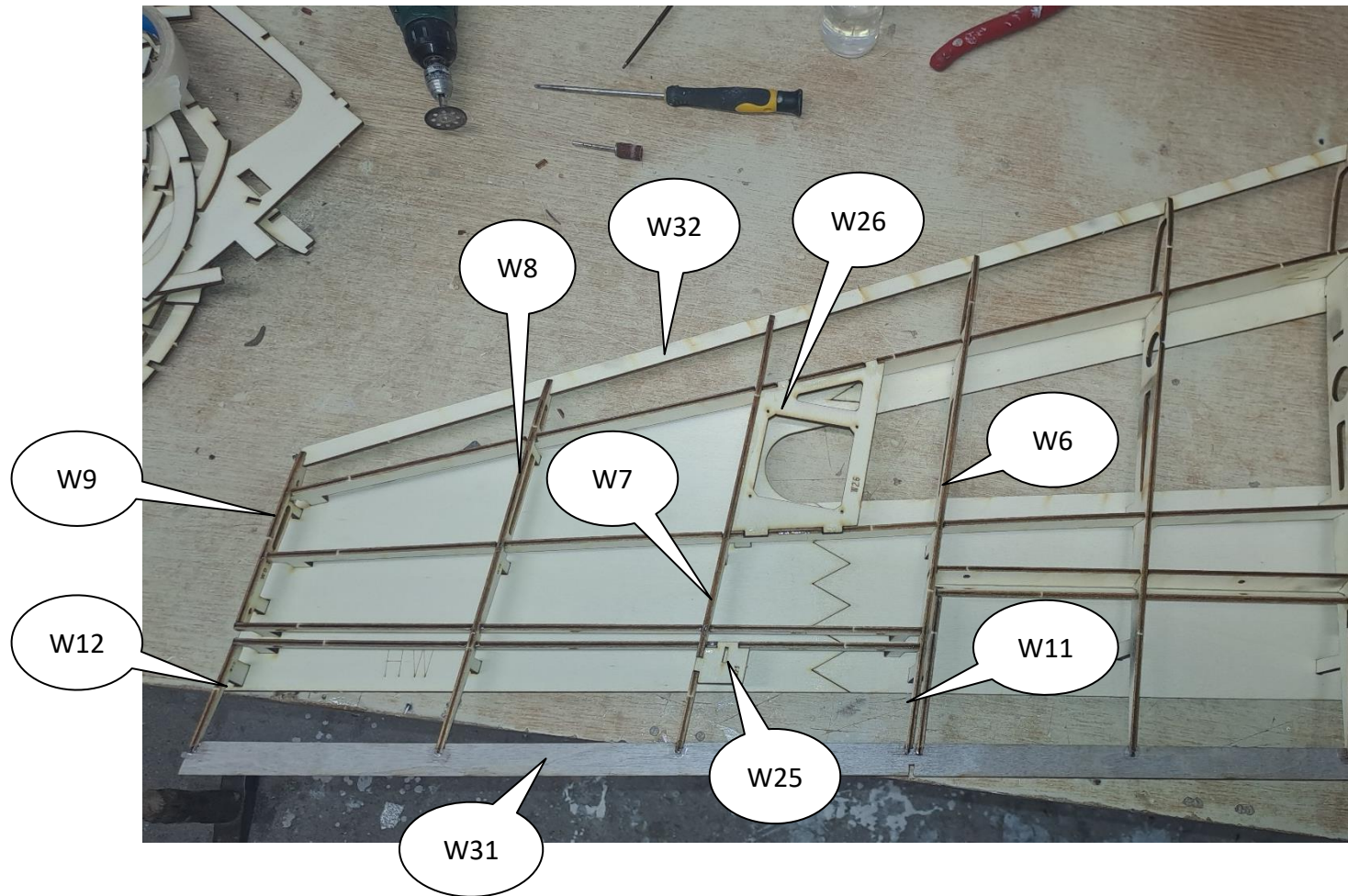
i remove control surface the same way as depicted on the elevators

main wing frame

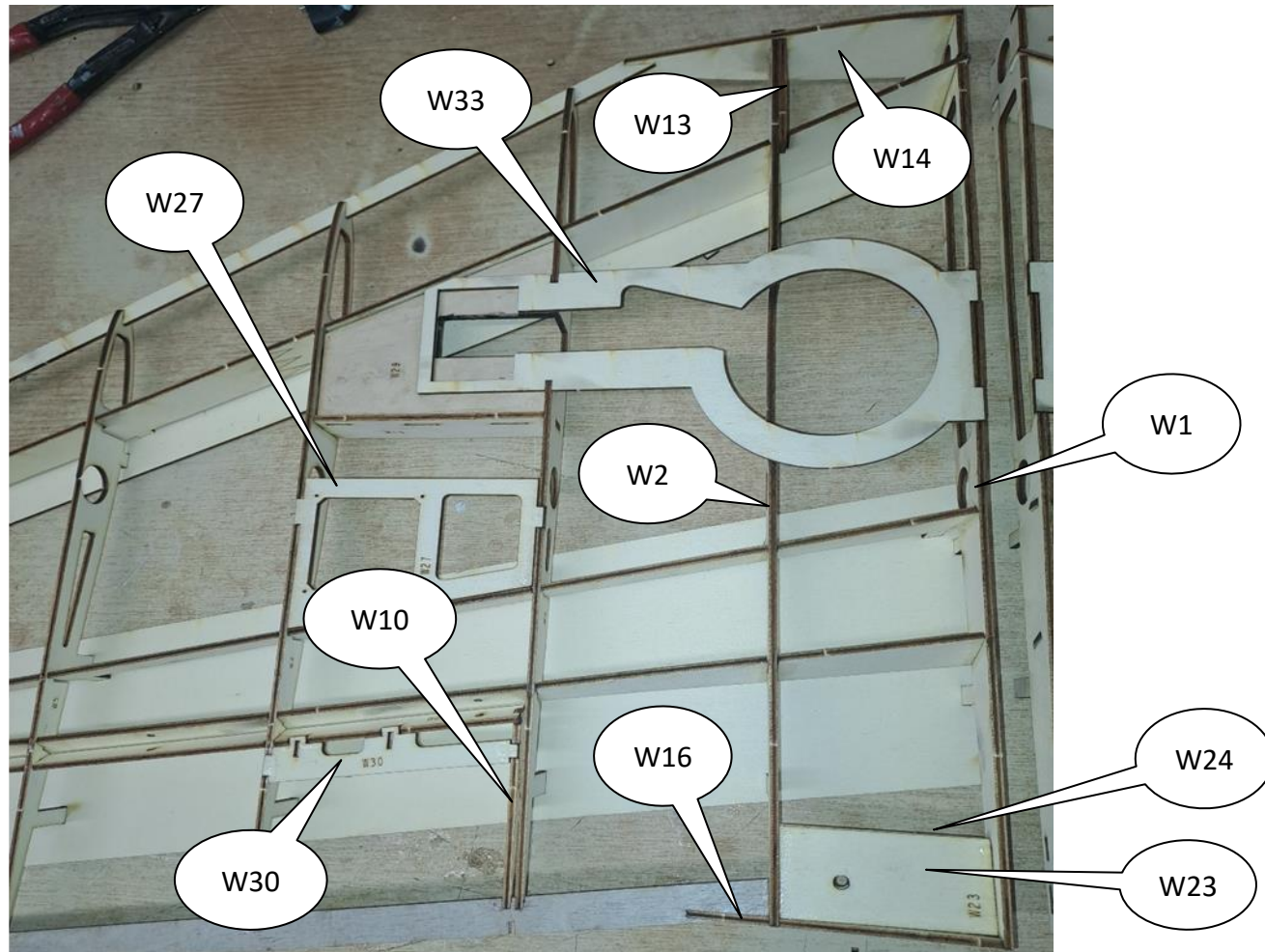


 glue first W29+W28+W29

main wing frame



main wing frame



main wing frame

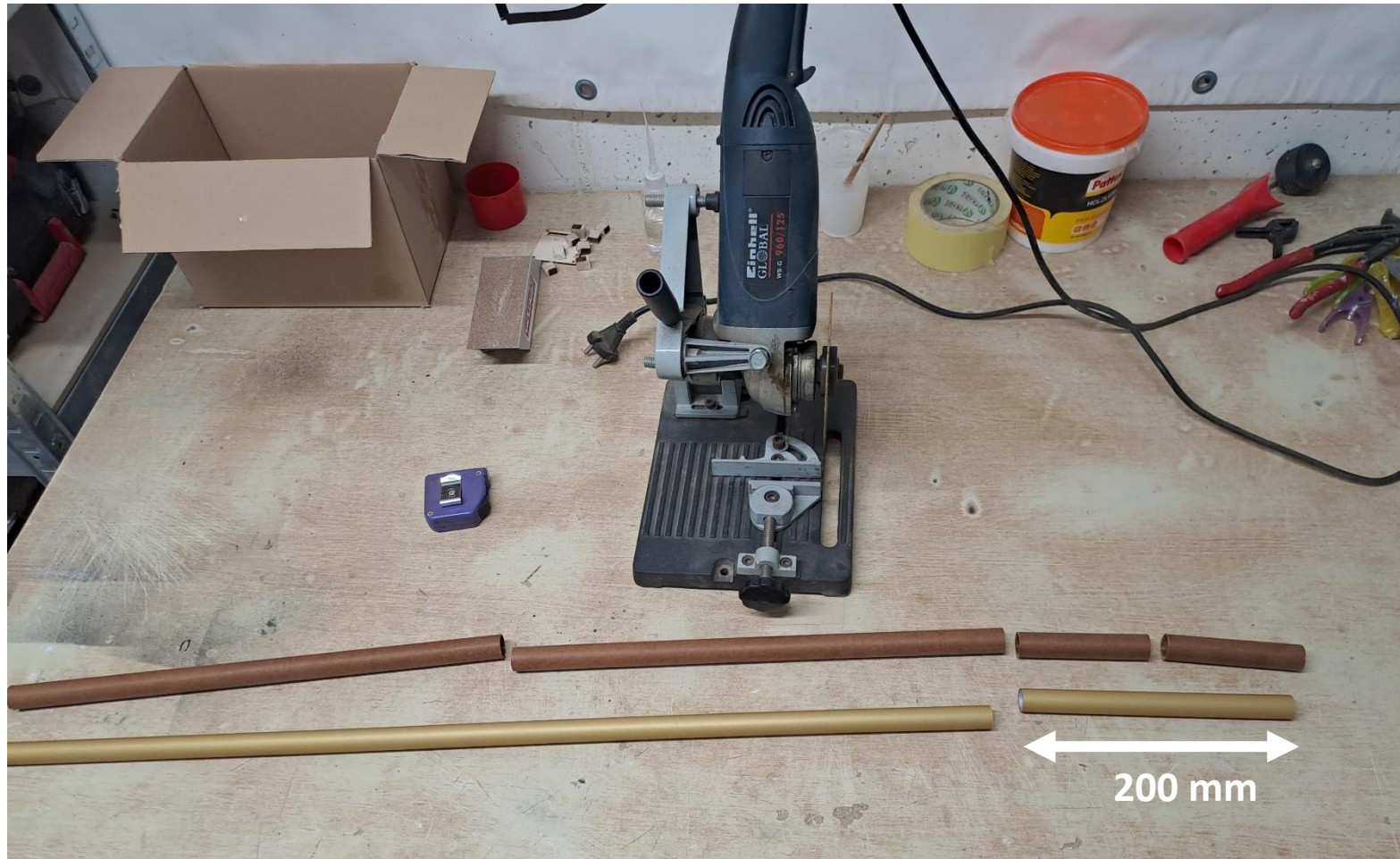


take care when mirroring the second wing



only one piece of helling supplied

main wing frame



main wing frame

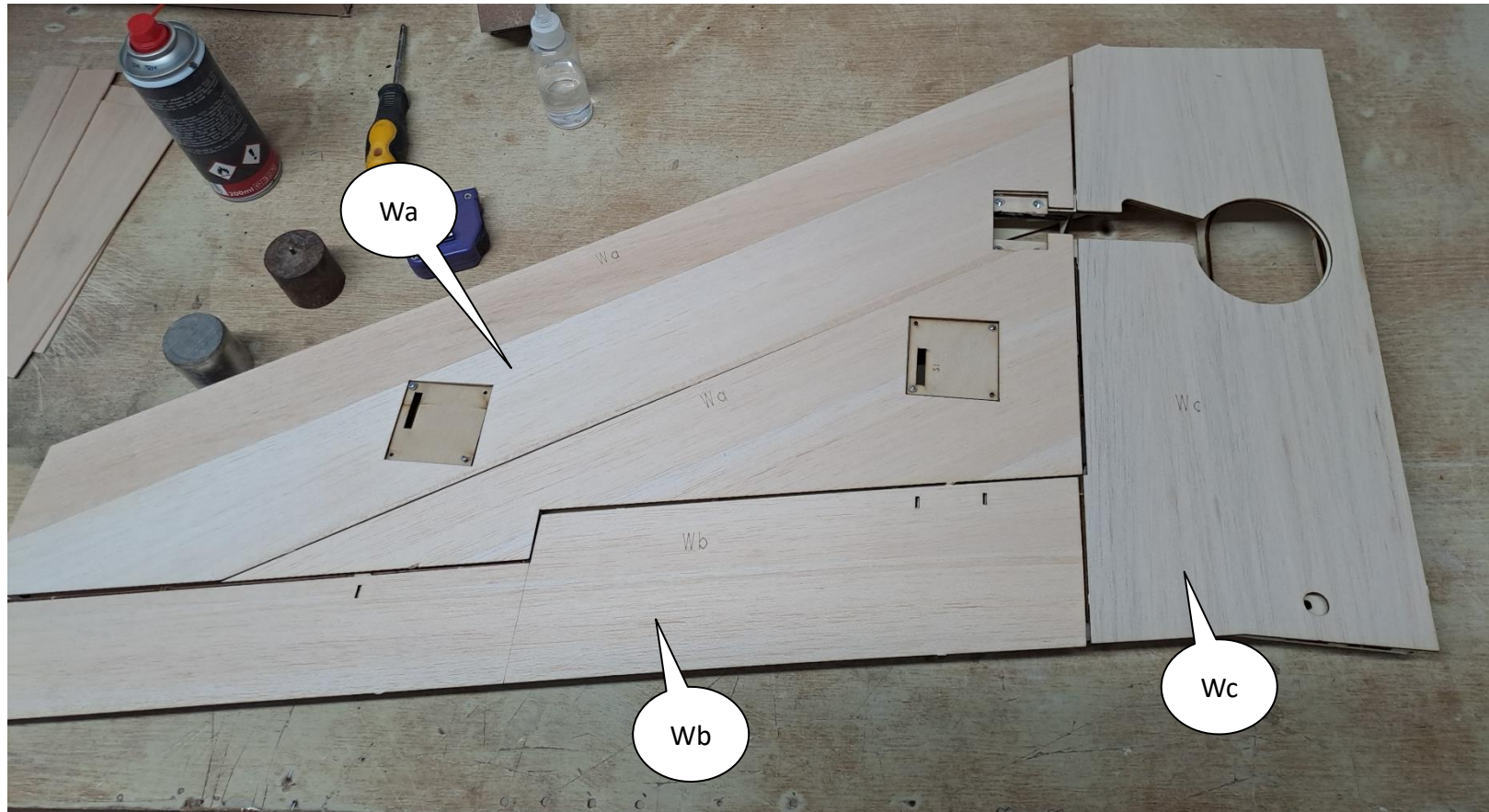



Use a scrw and a nut for positioning W34

main wing frame

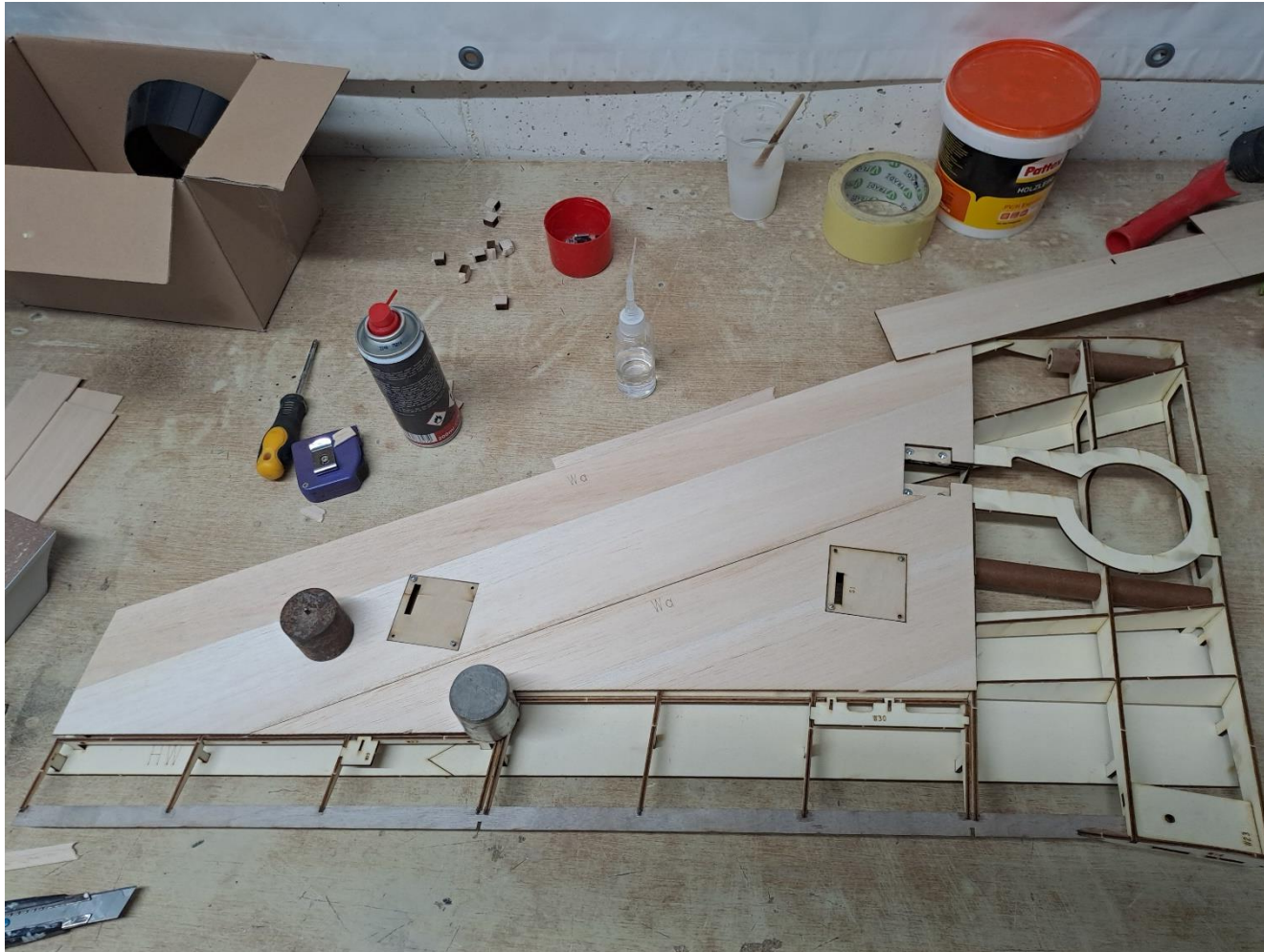


sheeting the bottom side



 mount servo covers

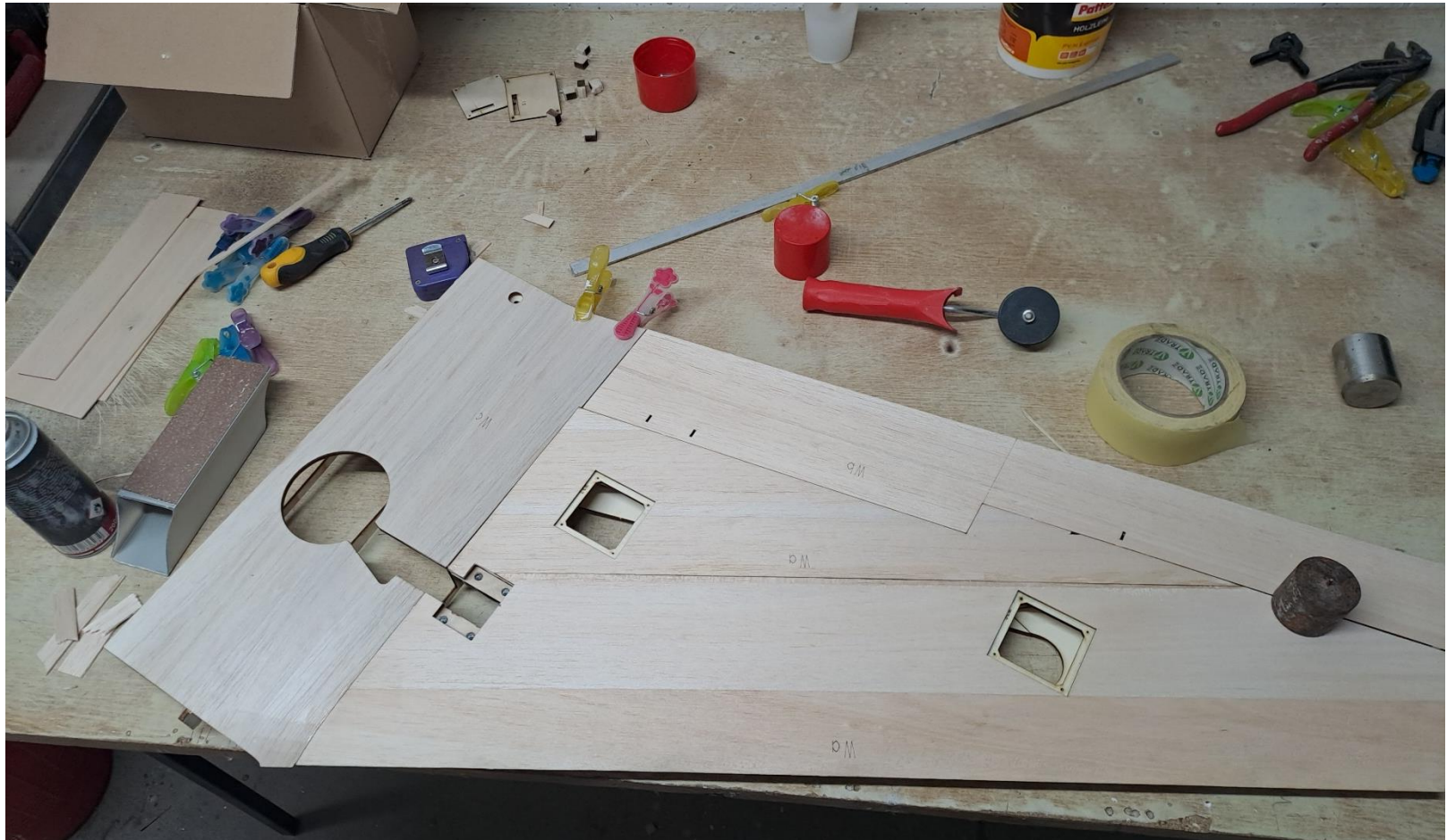
sheeting the bottom side



sheeting the bottom side

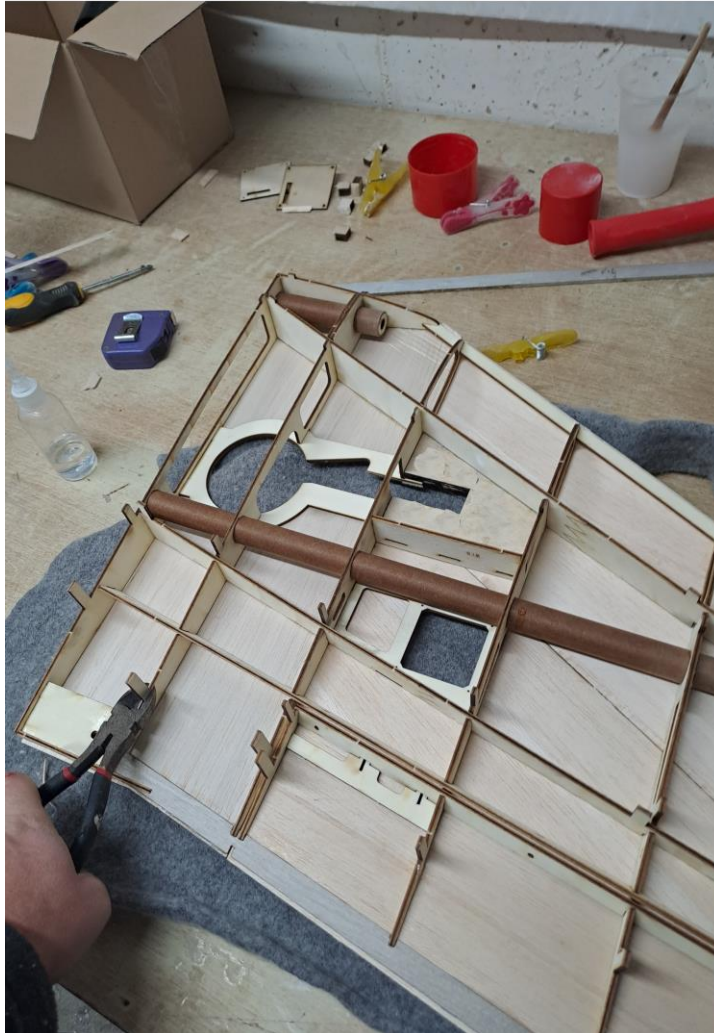


sheeting the bottom side



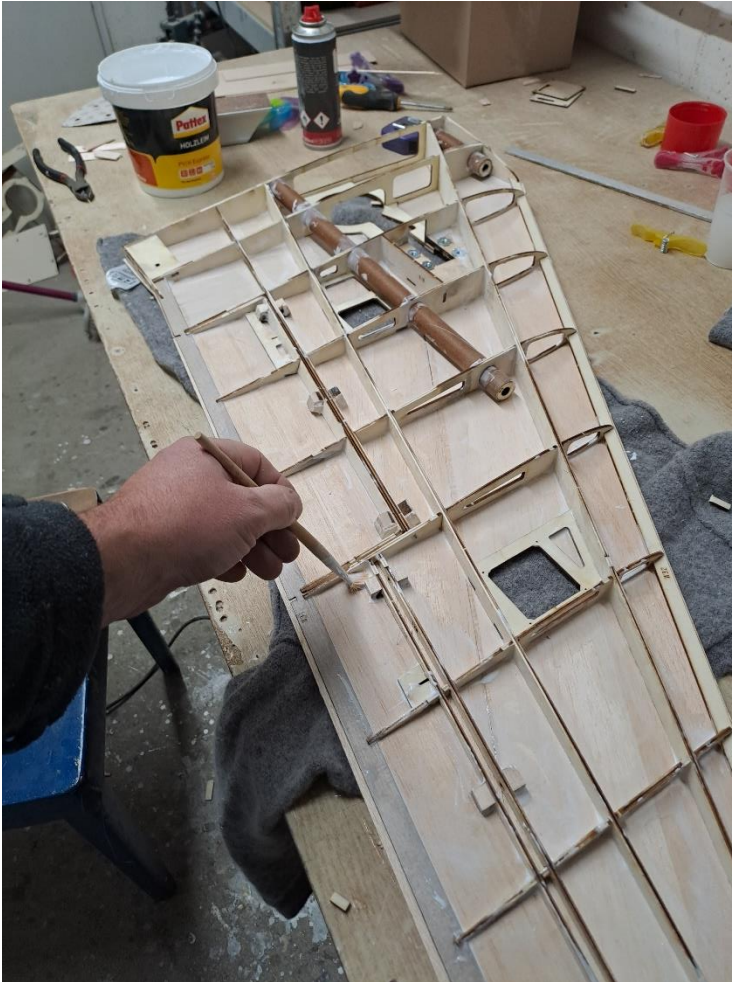




remove helling and support legs



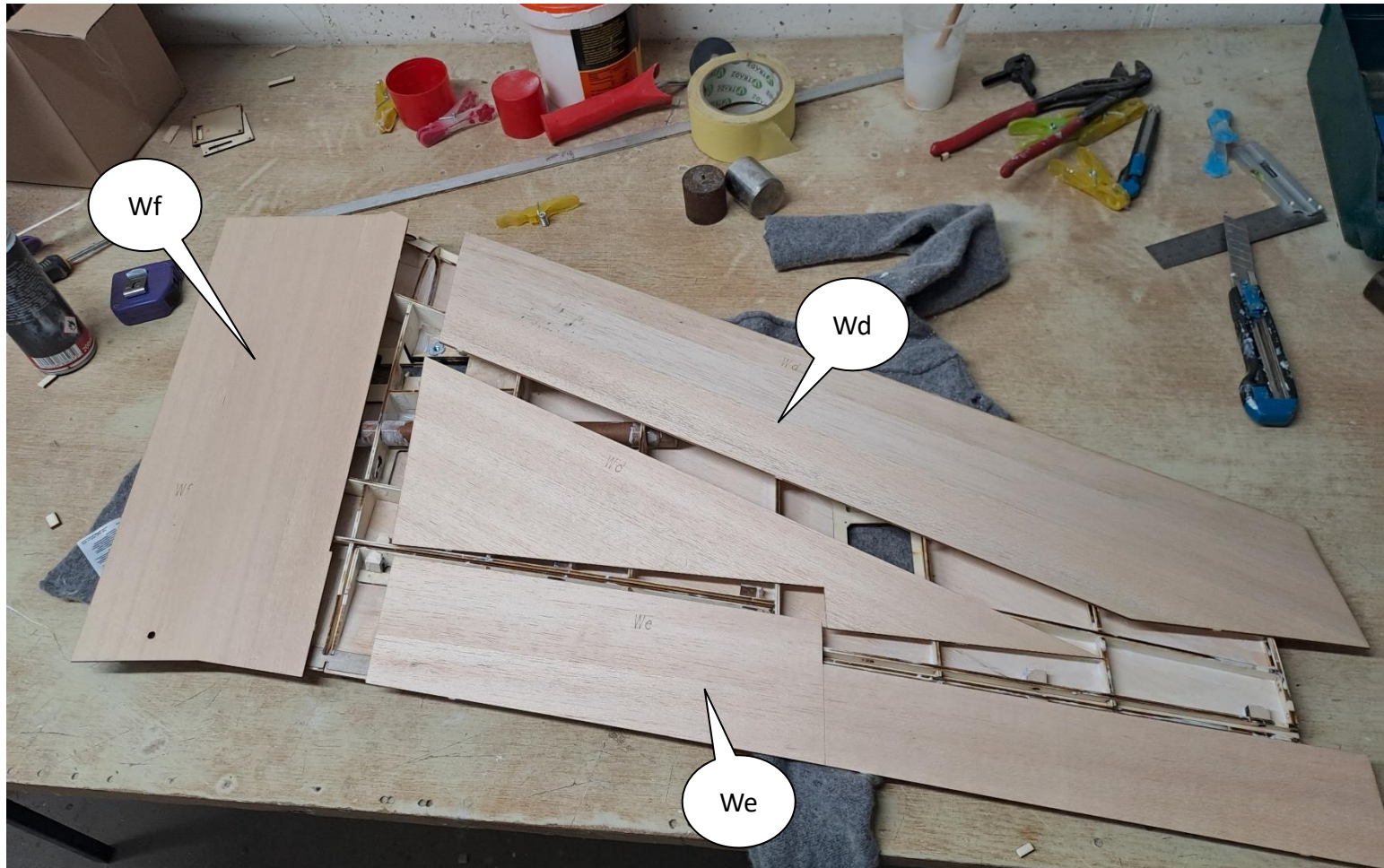


remove helling and support legs

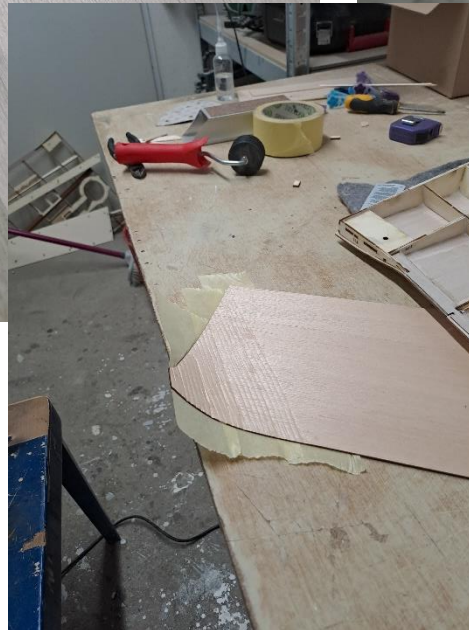
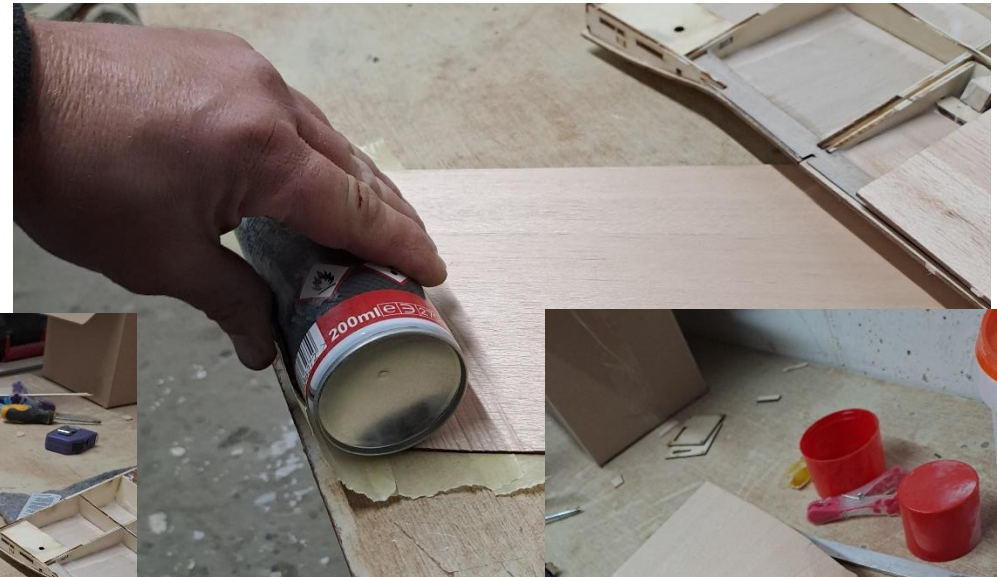
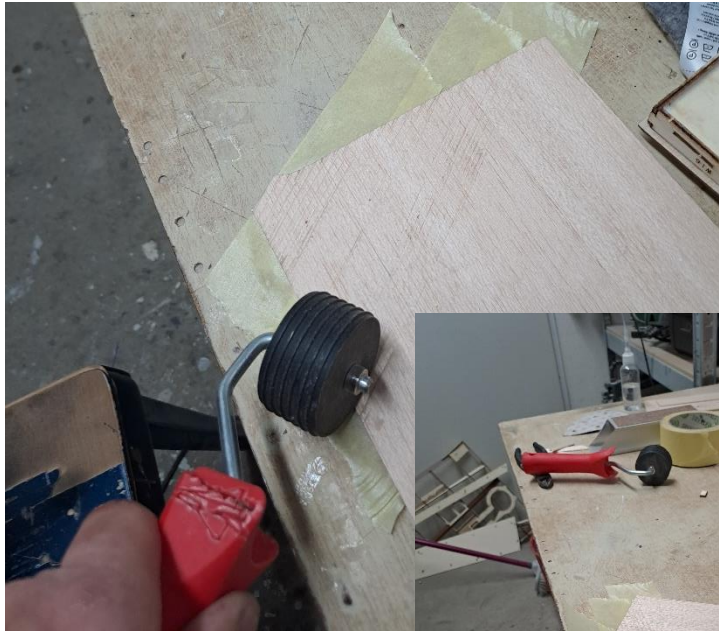


-  coat gaps with white glue, while still easily accessible
-  use a soft pad to avoid damage on the balsa surface

sheeting the bottom side



sheeting the bottom side



prebend Wf



sheeting the bottom side



do not use weights in order to avoid distortion!

sheeting the bottom side



sheeting the bottom side



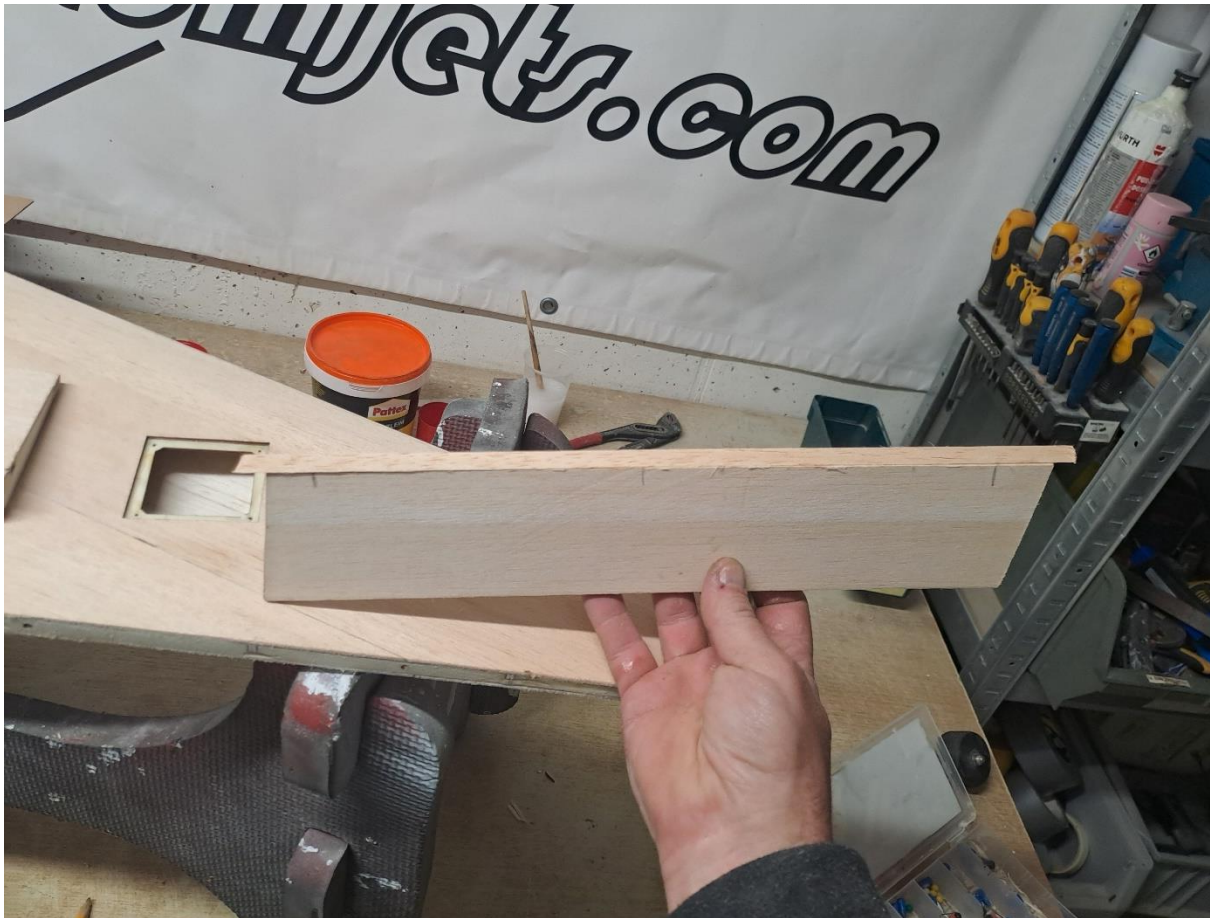
use balsa leftovers for closing the leading edge



sepearat the controll surface



sepearat the controll surface



i mark the positions of the hinges before attaching the triangular balsa strip

i use a 3mm drill



sepearat the controll surface



make sure the two winghalfs fit properly together



do not yet bond the hinges and the ruder horns

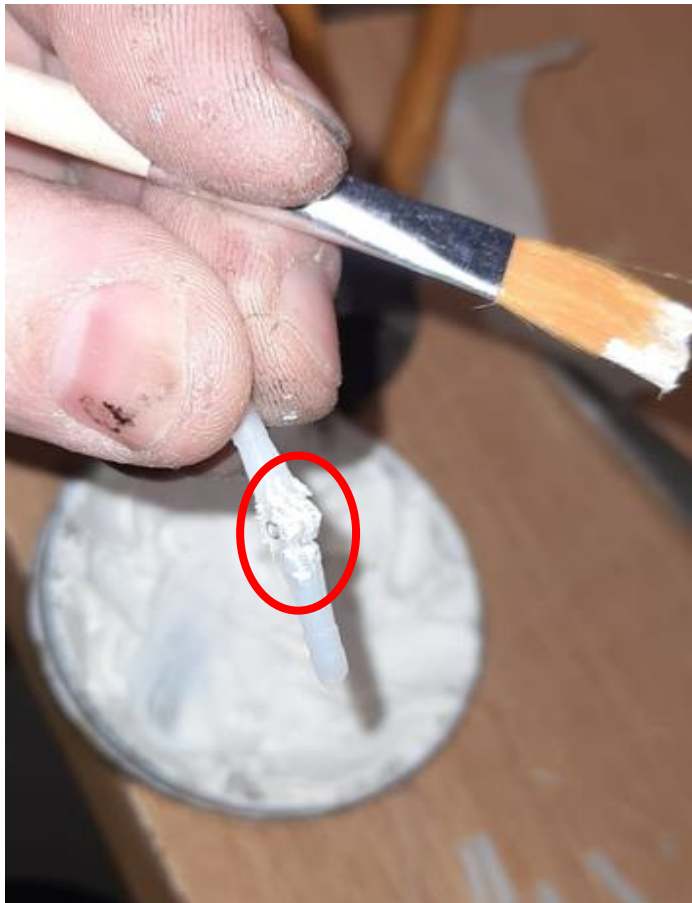


prefit the wing, elevators and rudder
before you start your surface finish



before glueing the wing tips, screw in bolts
and cut the heads

bonding the hinges



 use grease to protect the hinges from glue

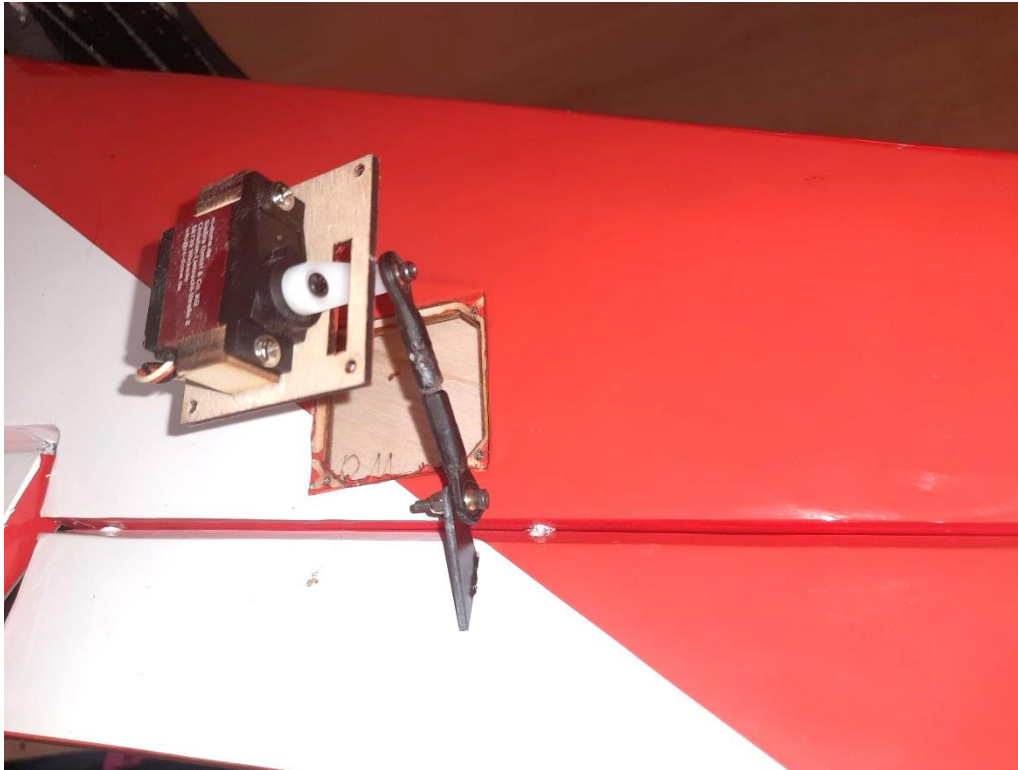


bonding the rudder horns



i by choosing the right position of your rudder horns you can change the deflection of the control surfaces, and therefore save channels on your transmitter; also crucial to align rudder with nose gear steering deflection

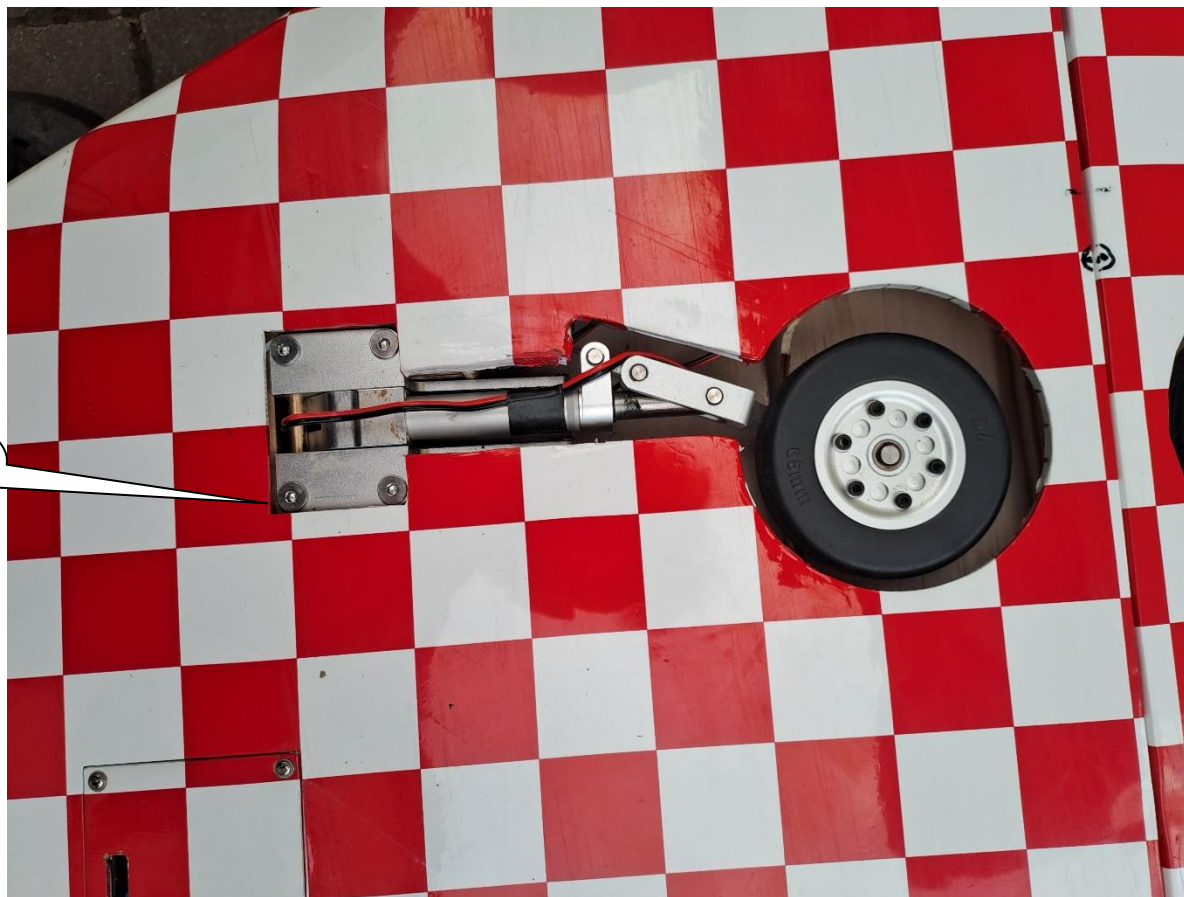
i Use the short rudder horns for the flaps





i note the routing of the braking wire!

wood screw
M3,5x13

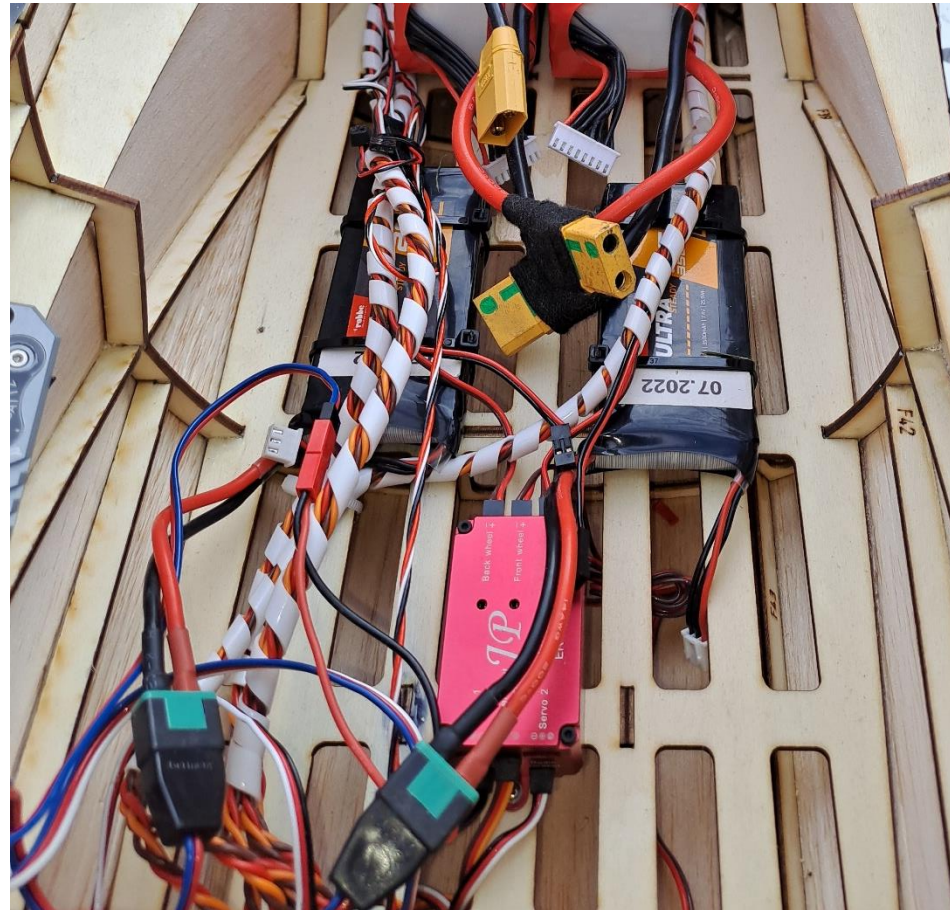





do not mix up the connectors for brakes and retract motor on your controller!! The controller immediately will be destroyed!!

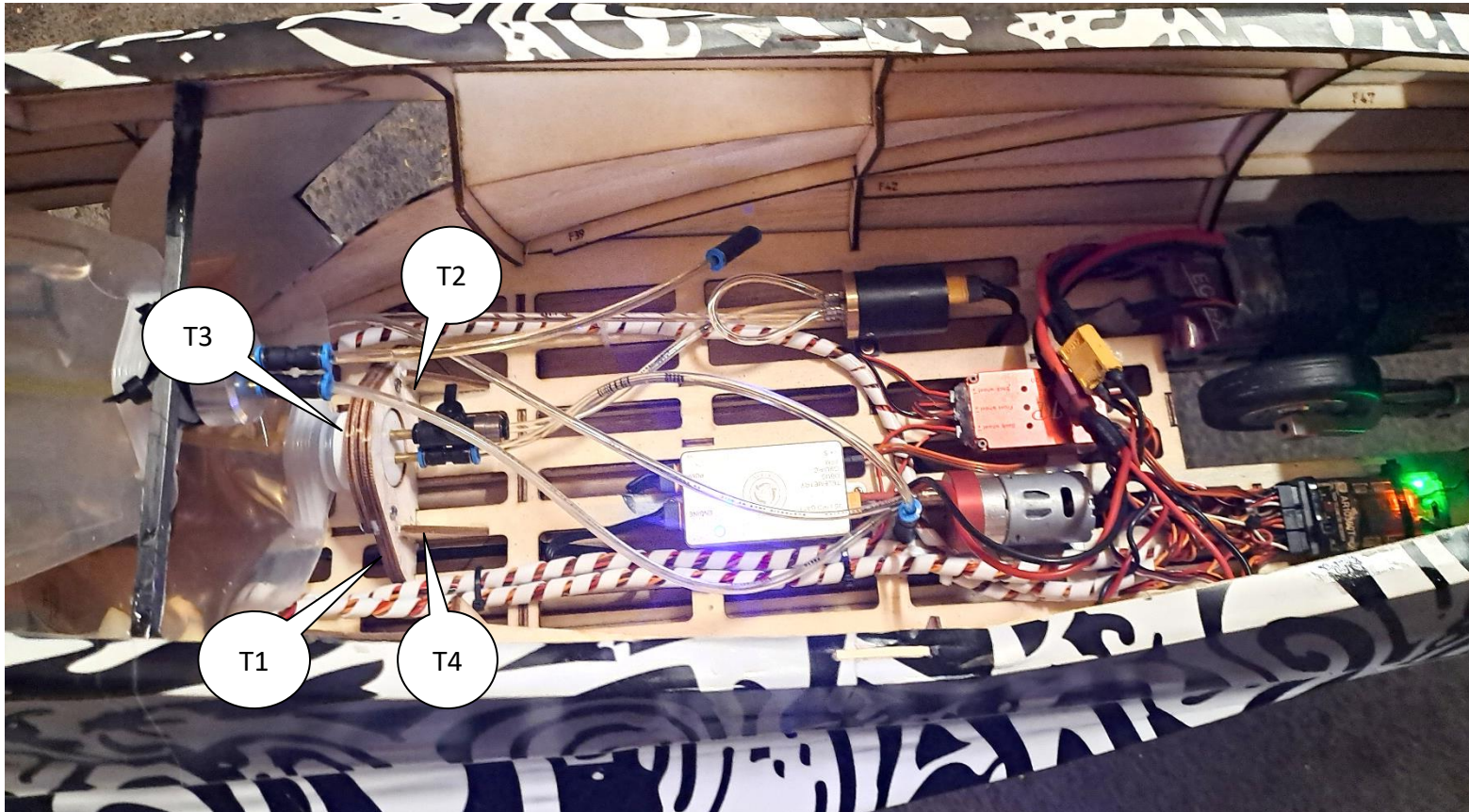


note the servo for the gear covers will only work if all gears are connected!

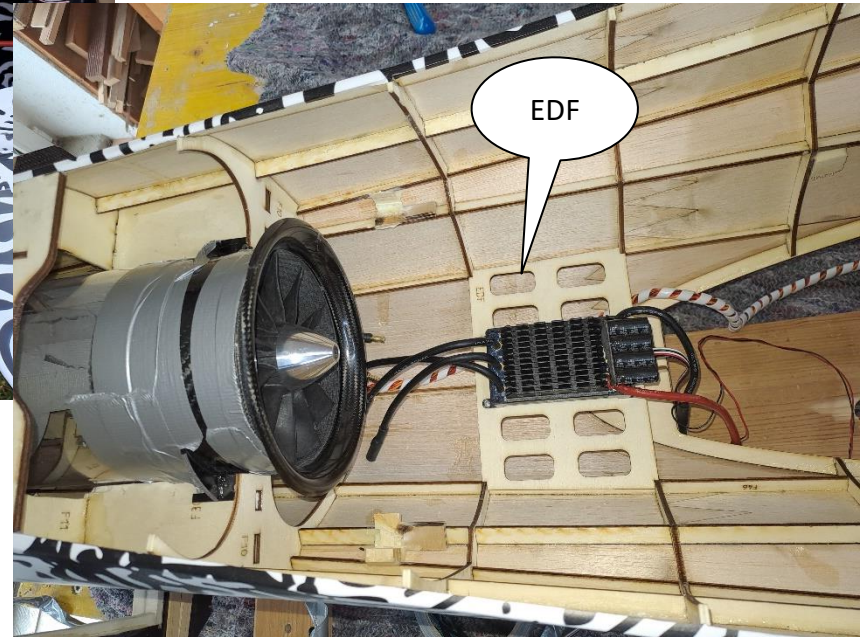




 silicone hose as heat insulation



EDF powerd





settings



| | |
|---------------|---|
| elevator | $\pm 40 \text{ mm} + 20\% \text{ expo}$ |
| aileron | $\pm 40 \text{ mm} + 20\% \text{ expo}$ |
| rudder | $\pm 40 \text{ mm} + 20\% \text{ expo}$ |
| CoG | 140mm |
| flaps landing | 50mm |
| flaps start | 30mm |

i use flight phase dependent trim instead of elevator flaps mix

i land your Interceptor with some drag gas. It is **not** a sailing plane.

