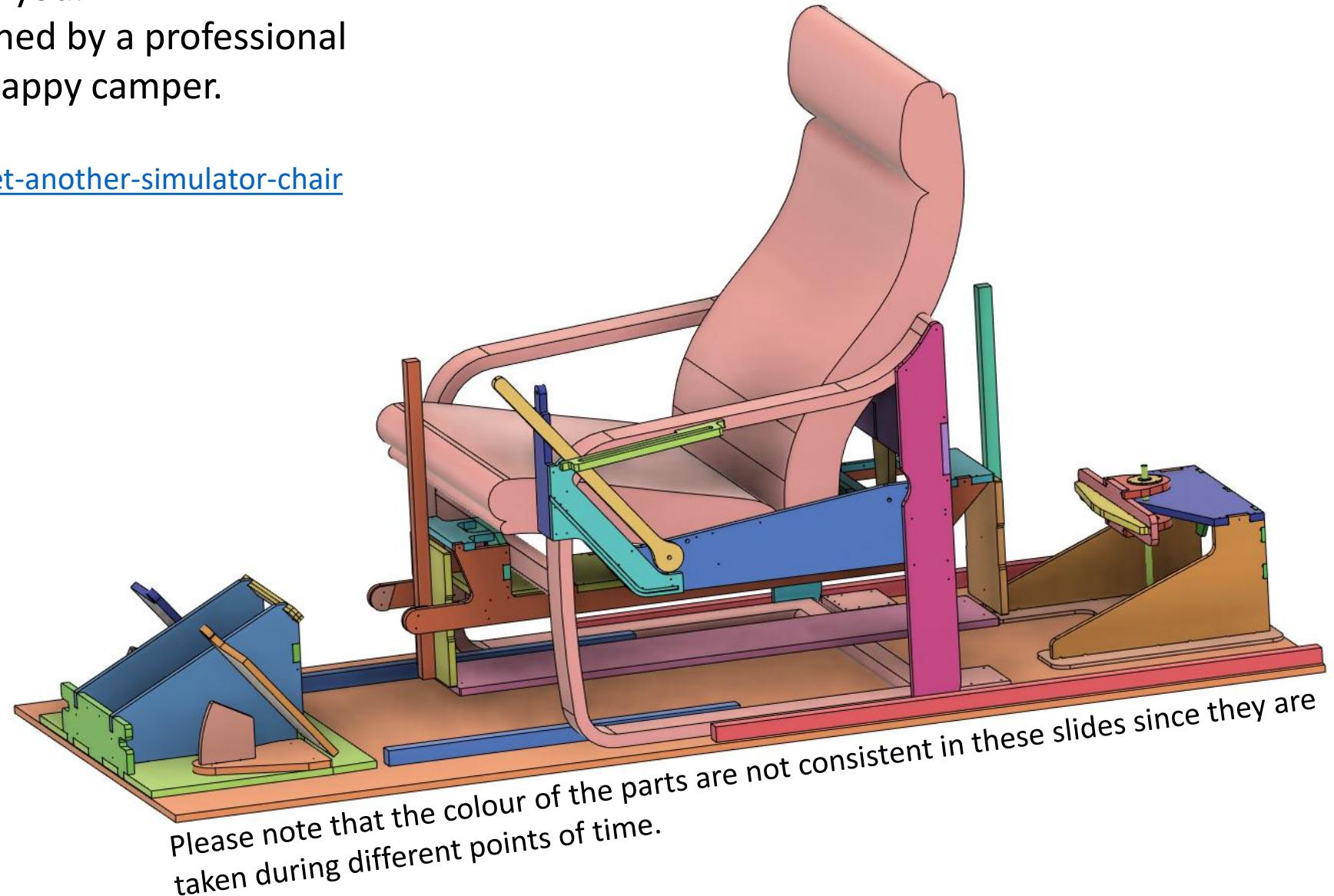
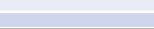


This document is intended to inspire how to assemble the Yet-another-simulator-chair. If you do it in any other manner, way or method it is not wrong. As long as it works for you.

Do note that this is not designed by a professional designer, it is designed by a happy camper.

<https://github.com/speedbird620/Yet-another-simulator-chair>



Name	Count	Sum = 12
A1	1	
A2	2	
A3	2	
A4	2	
A5	1	
A6	1	
A7	1	
A8	2	

Name	Count	Sum = 15
B1	2	
B2	1	
B3	2	
B4	1	
B5	1	
B6	2	
B7	1	
B8	2	
B9	2	
B10	1	

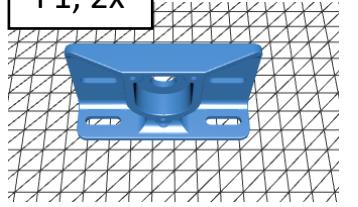
Name	Count	Sum = 5
C1	2	
C2	2	
C3	1	

Name	Count	
D1	1	
D2	1	
D3	1	
D4	1	
D5	1	

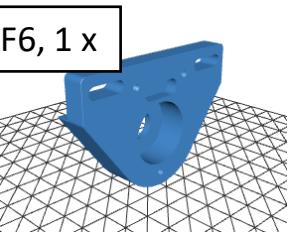
Name	Count	Sum = 15
E1	1	
E2	2	
E3	1	
E4	1	
E5	1	
E6	2	
E7	1	
E8	4	
E9	2	

Redesigned, will be
3D-printed instead

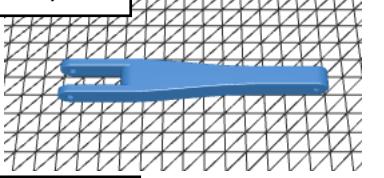
F1, 2x



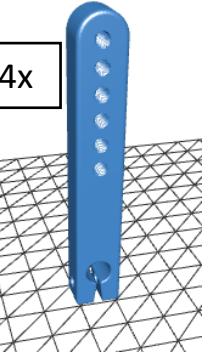
F6, 1 x



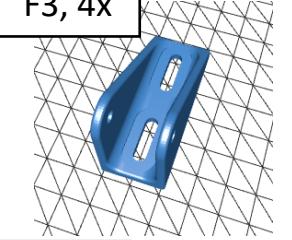
F2, 2x



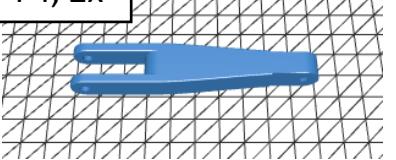
F7, 4x



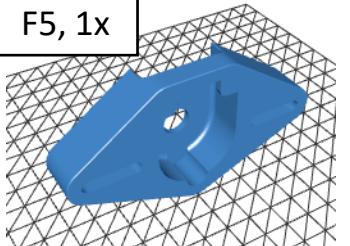
F3, 4x



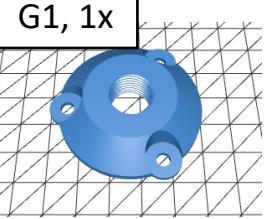
F4, 2x



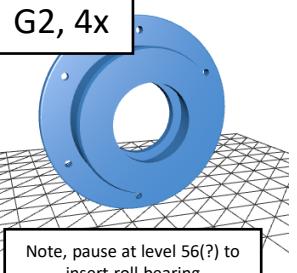
F5, 1x



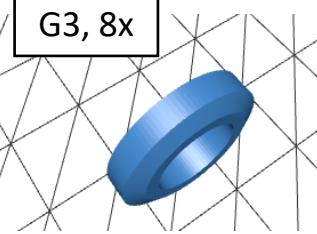
G1, 1x



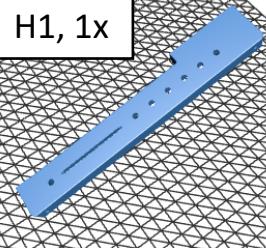
G2, 4x



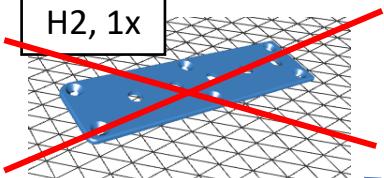
G3, 8x



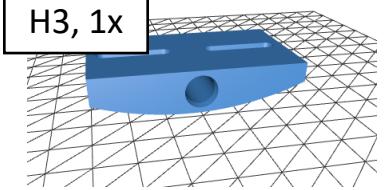
H1, 1x



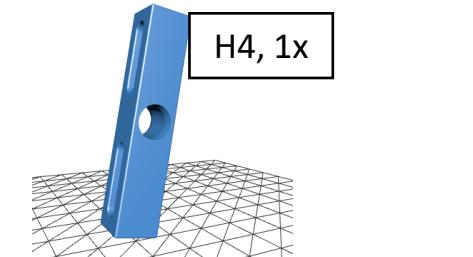
H2, 1x



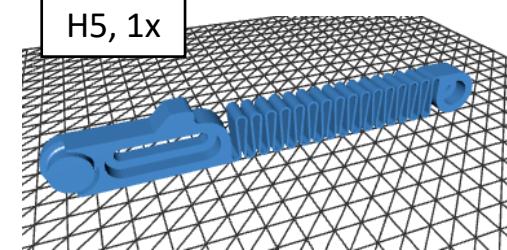
H3, 1x



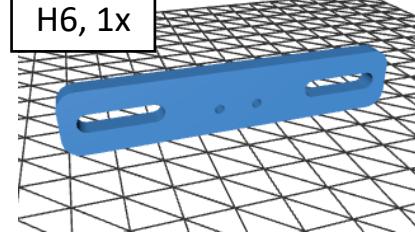
H4, 1x



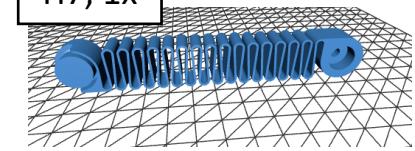
H5, 1x



H6, 1x



H7, 1x



Discontinued: H1, H2 and D4 is combined together into H1

Warnings



Pre-drill
the hole!

Pre-drilling a hole is because the material may crack when a screw is applied.



Not too
long!

Use of a too long screw may penetrate the plywood and poke hole in either floor, humans or animals.

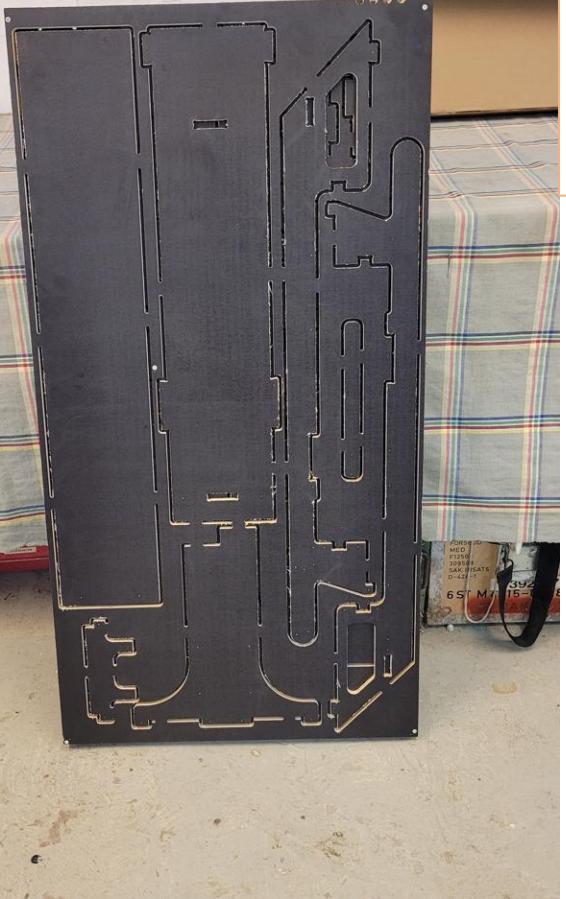
These warnings may be applied to more places than indicated in this document.

Usage of your own judgement is mandatory.

Step 1, preparations

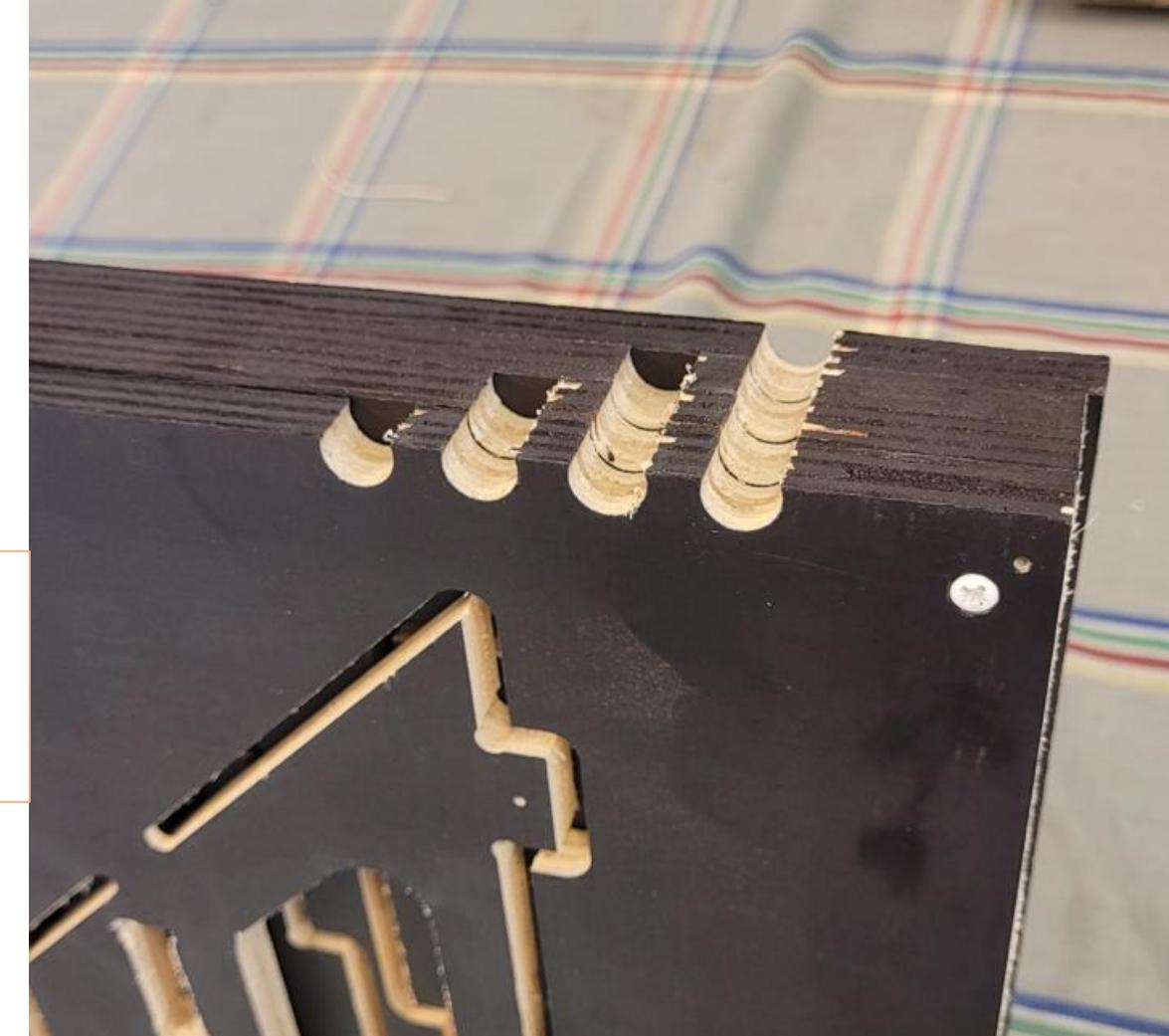
List of tools here:

- Poke saw
- Drill
- Drill bits
- ..



The cutouts consists of
4 plywood boards
(1200 x 620 mm)
screwed together.

Each plywood board
has a different number
of semi circles in order
to identify the boards.



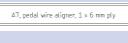


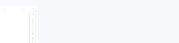
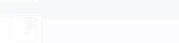
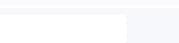
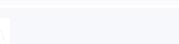
5 screws from each side. 10 in total placed in the corners and in the middle.

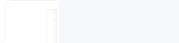


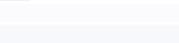
Step 2, front pedals

...

Name	Count	Sum = 12
A1	1	
A2	2	
A3	2	
A4	2	
A5	1	
A6	1	
A7	1	
A8	2	

Name	Count	Sum = 15
B1	2	
B2	1	
B3	2	
B4	1	
B5	1	
B6	2	
B7	1	
B8	2	
B9	2	
B10	1	

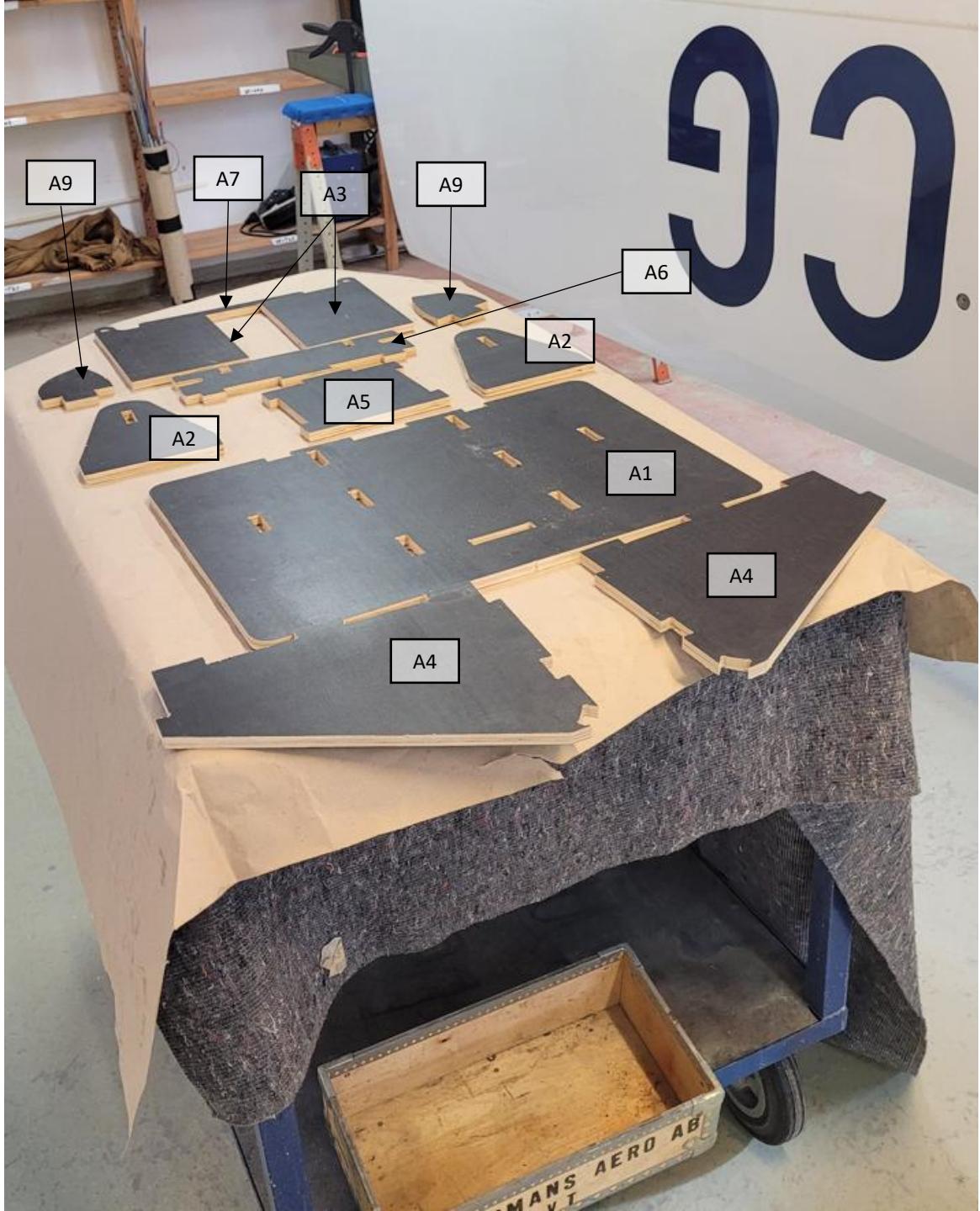
Name	Count	Sum = 5
C1	2	
C2	2	
C3	1	

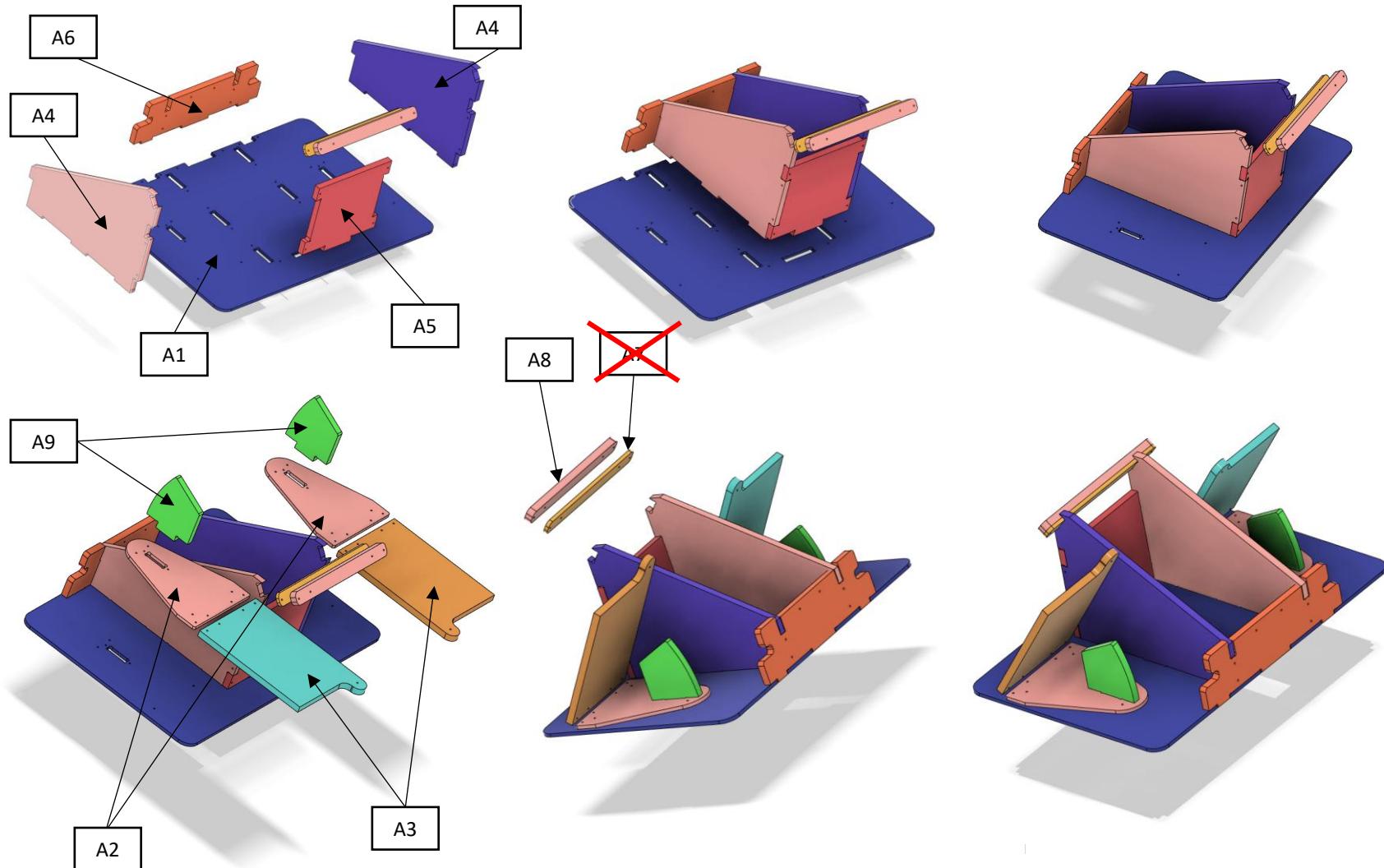
Name	Count	
D1	1	
D2	1	
D3	1	
D4	1	
D5	1	

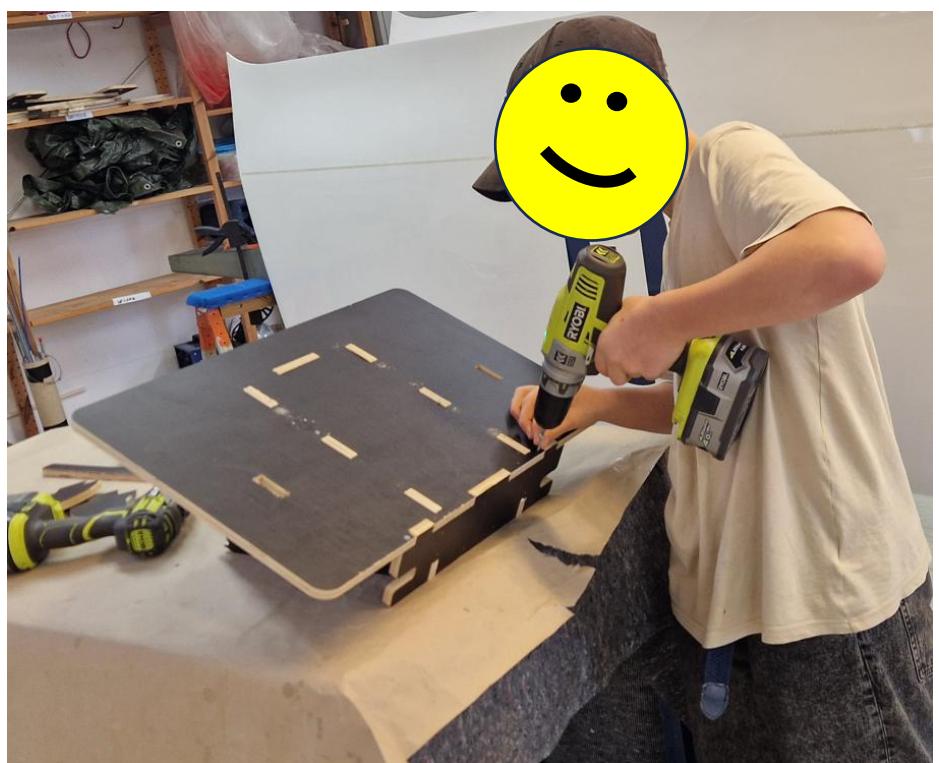
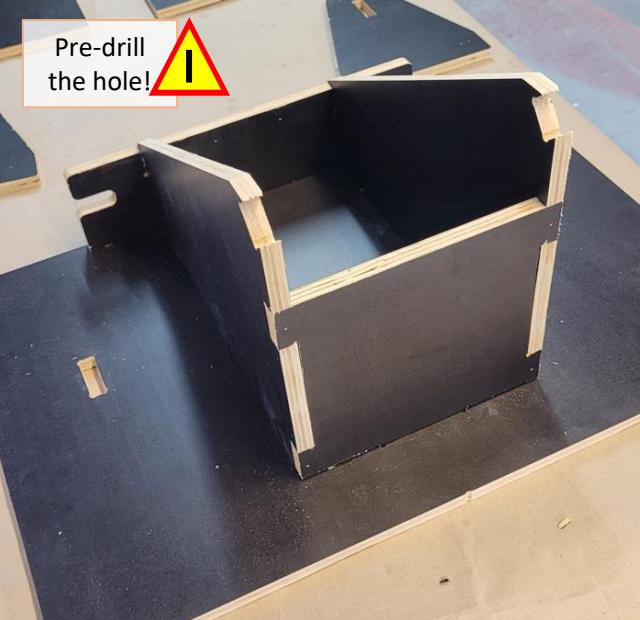
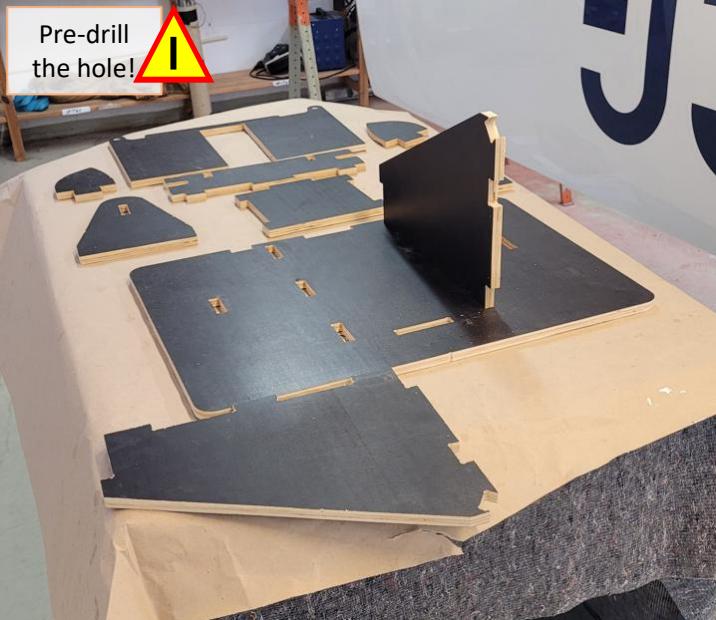
Name	Count	Sum = 15
E1	1	
E2	2	
E3	1	
E4	1	
E5	1	
E6	2	
E7	1	
E8	4	
E9	2	

Redesigned, will be
3D-printed instead



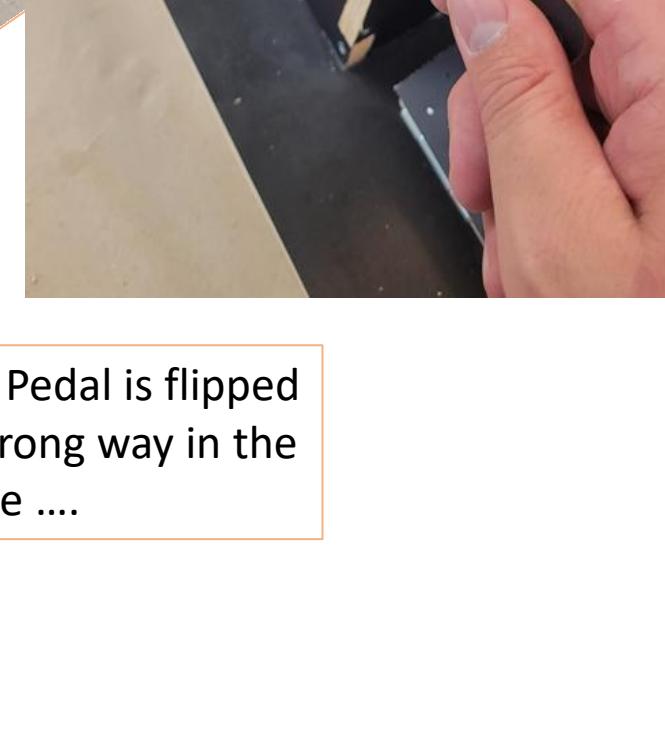
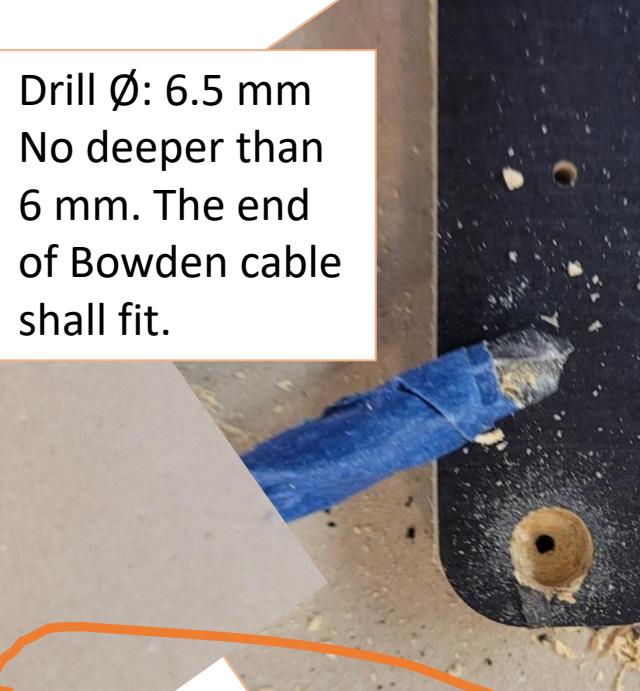








Note: the supplied screws are too long. Use other screws or shorten them by sanding the tip.



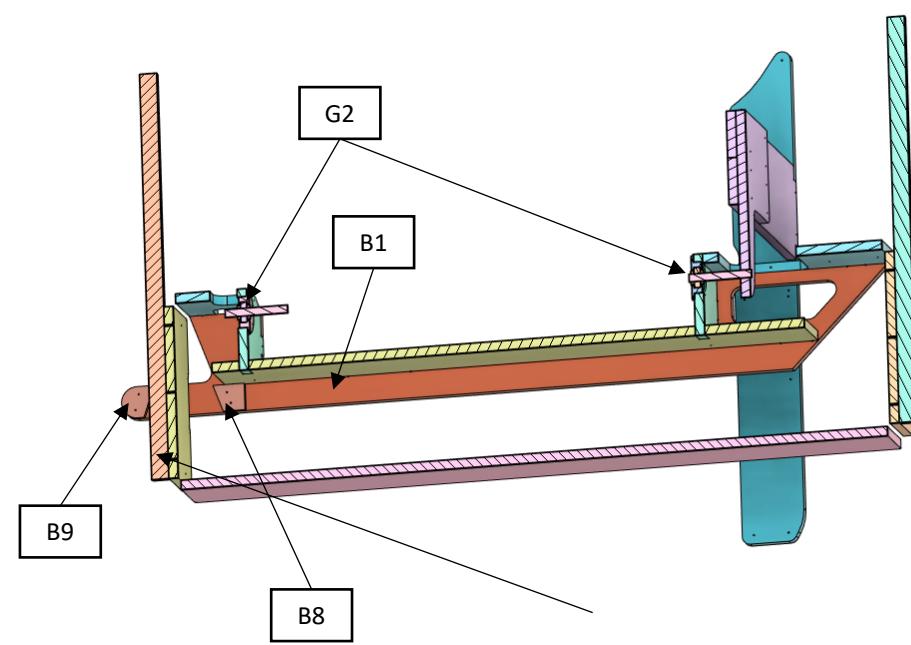
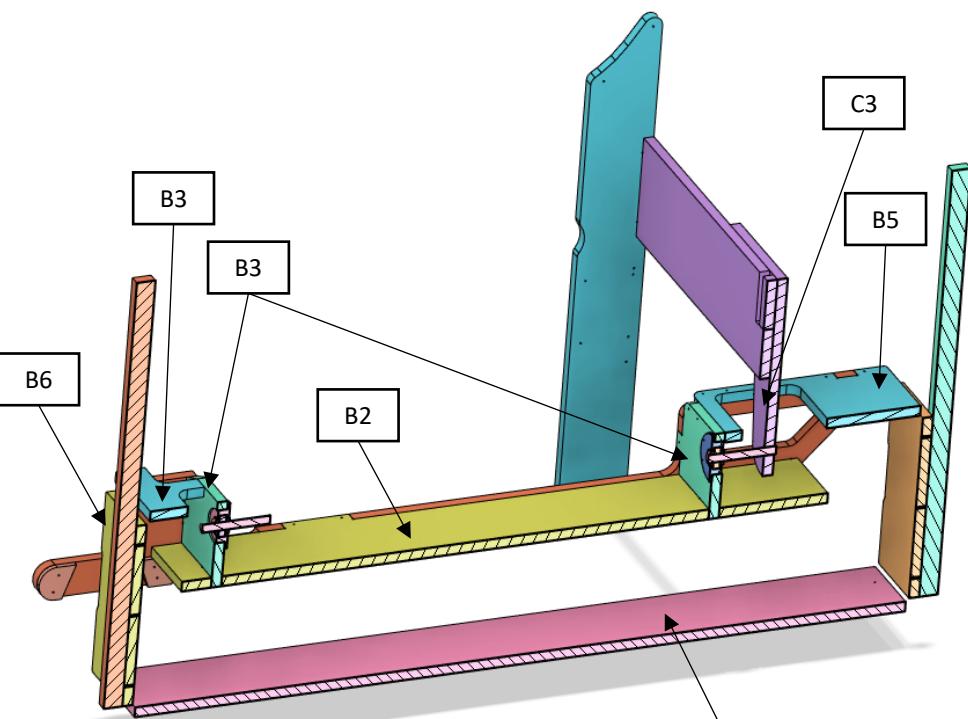
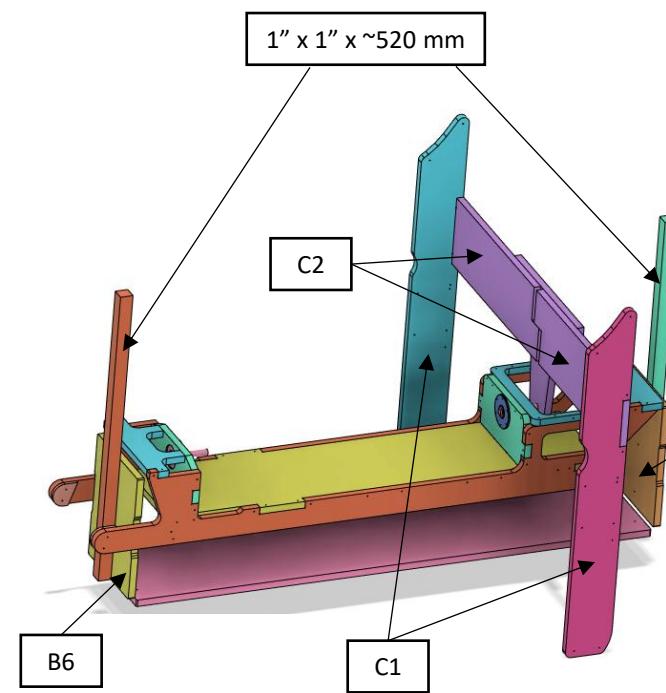
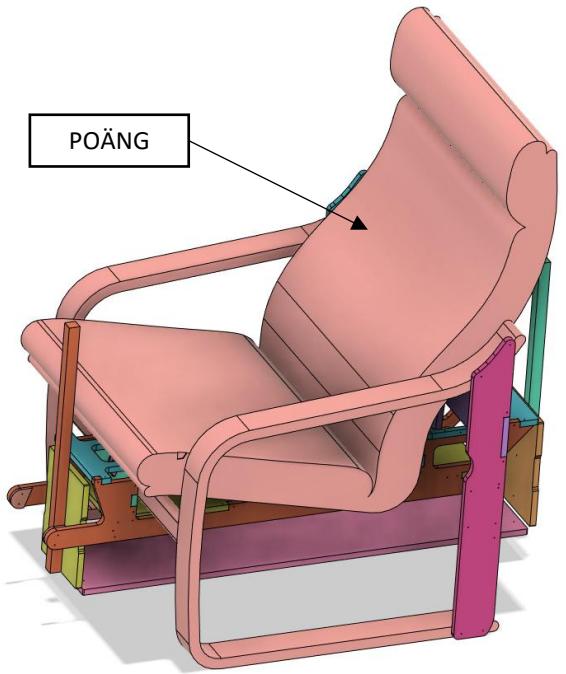
Drill Ø: 6.5 mm
No deeper than 6 mm. The end of Bowden cable shall fit.

Pre-drill
the hole!

Note: Pedal is flipped
the wrong way in the
picture

Step 3, control assembly

...



Name	Count	Sum = 12
A1	1	
A2	2	
A3	2	
A4	2	
A5	1	
A6	1	
A7	1	
A8	2	

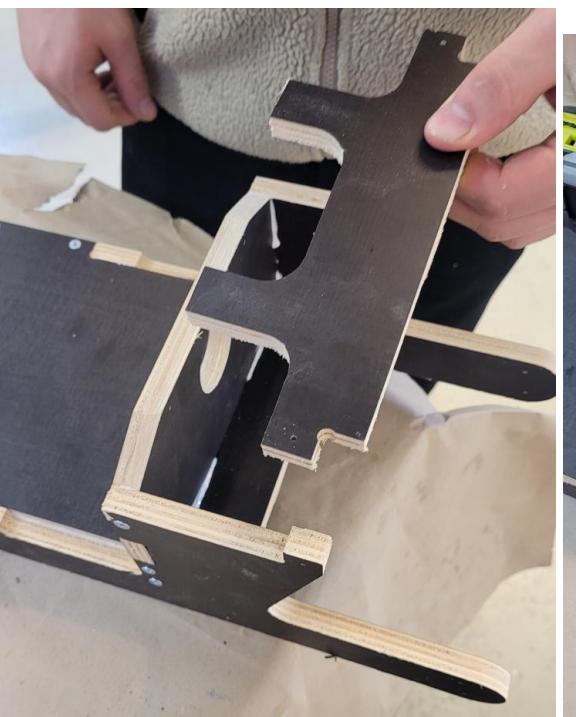
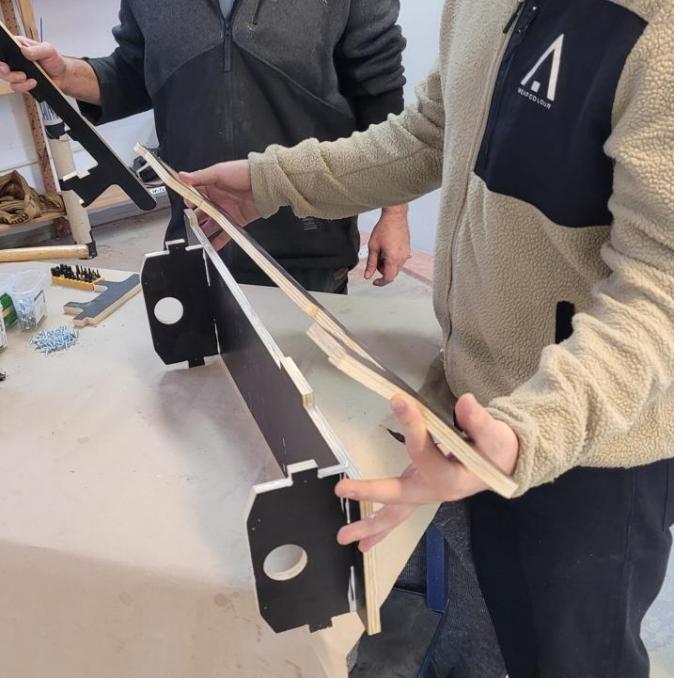
Name	Count	Sum = 15
B1	2	
B2	1	
B3	2	
B4	1	
B5	1	
B6	2	
B7	1	
B8	2	
B9	2	
B10	1	

Name	Count	Sum = 5
C1	2	
C2	2	
C3	1	

Name	Count	
D1	1	
D2	1	
D3	1	
D4	1	
D5	1	

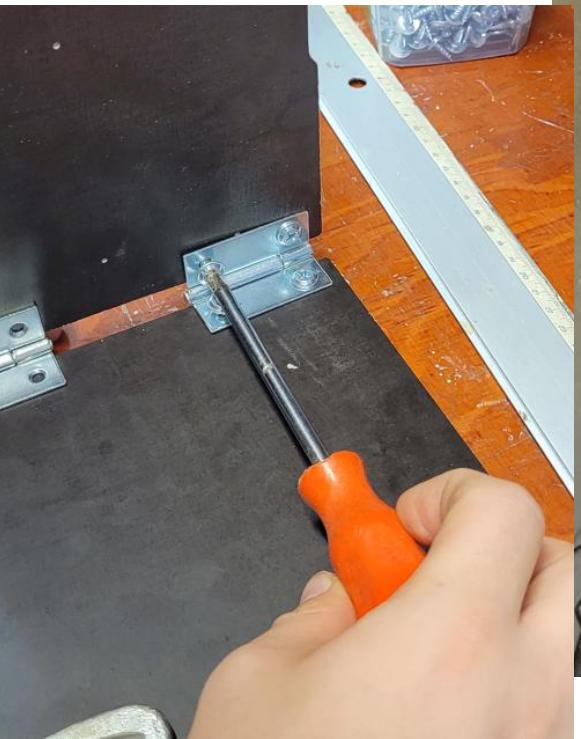
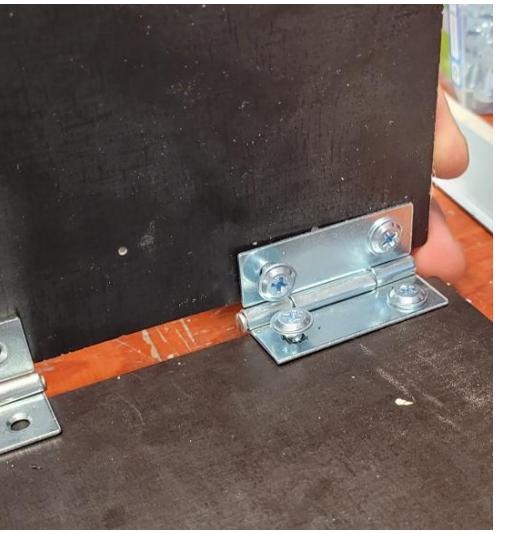
Name	Count	Sum = 15
E1	1	
E2	2	
E3	1	
E4	1	
E5	1	
E6	2	
E7	1	
E8	4	
E9	2	

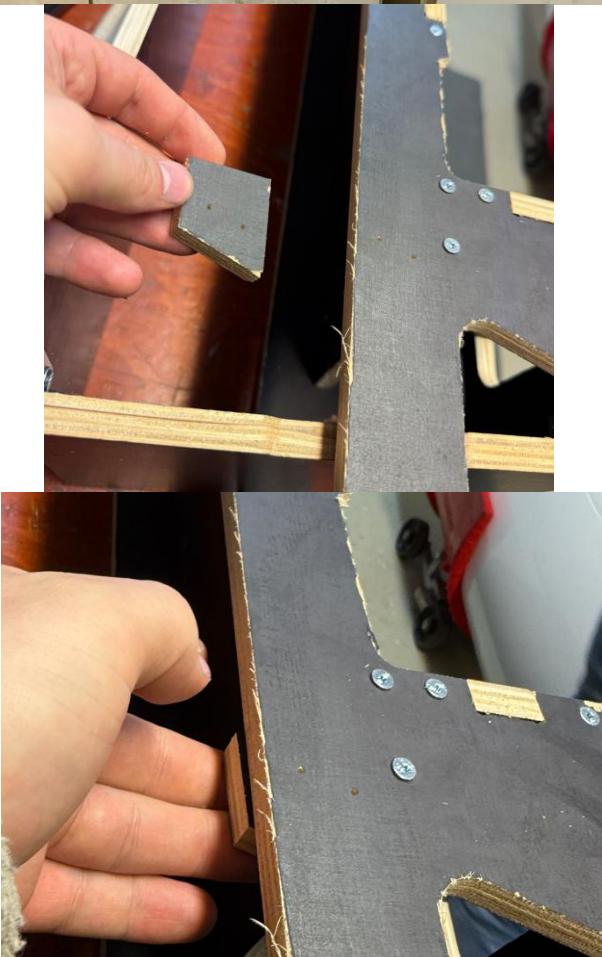
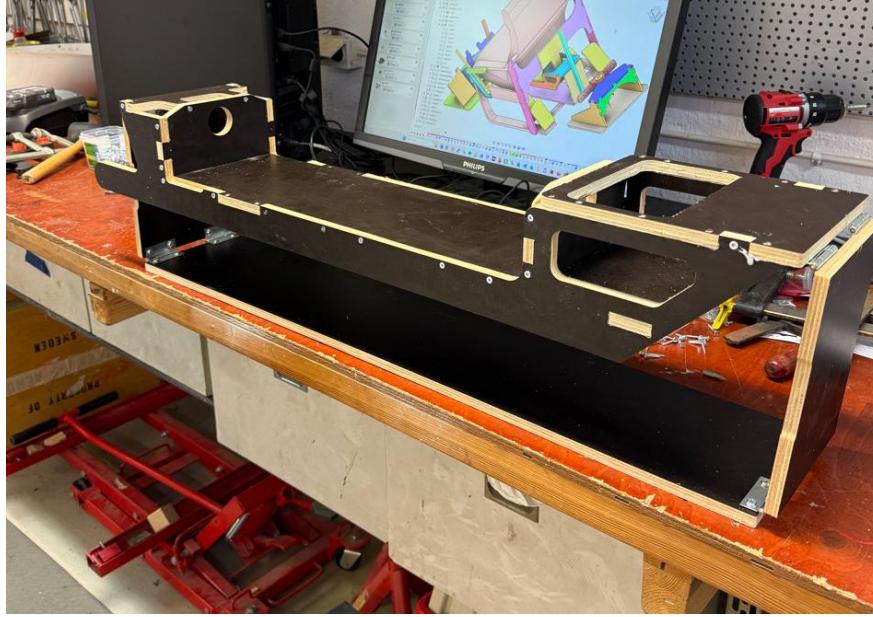
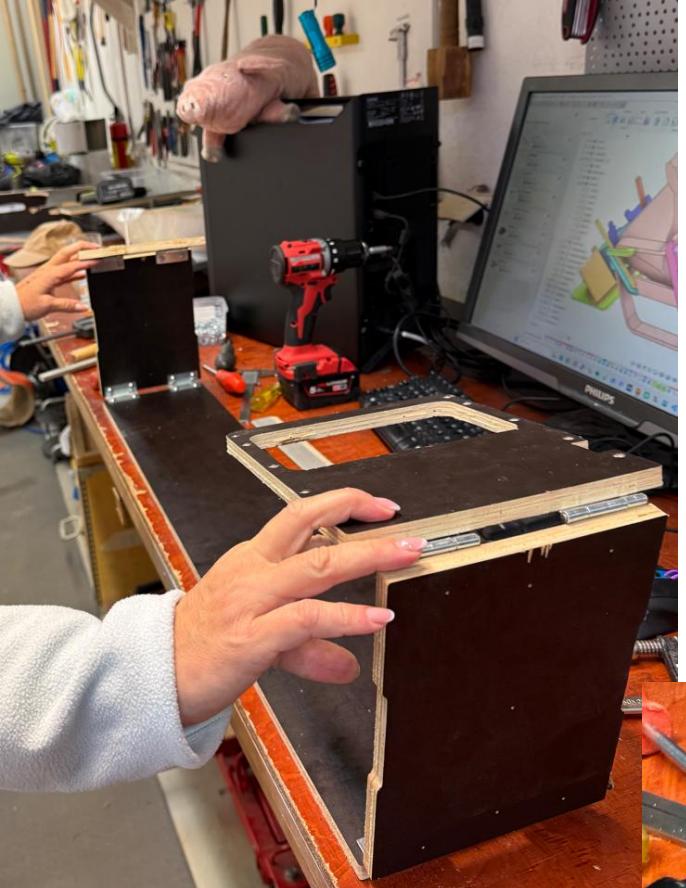
Redesigned, will be
3D-printed instead





Tighten the screws on the hinges at 90° in order to align the hinges

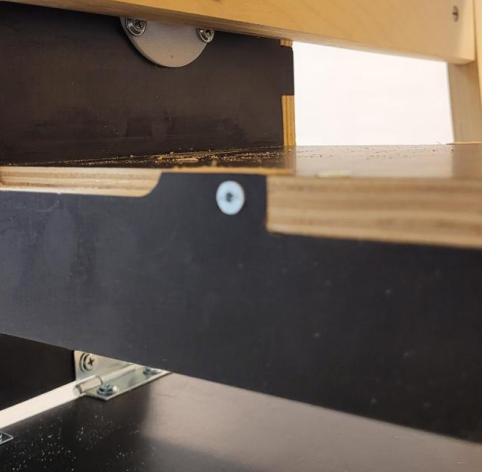
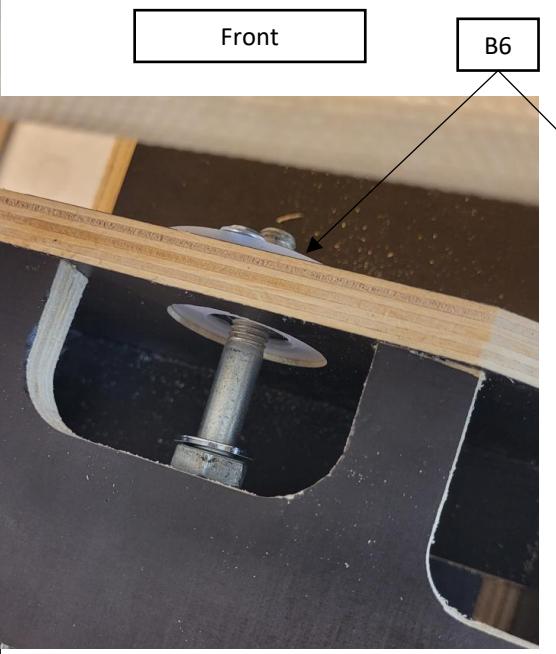
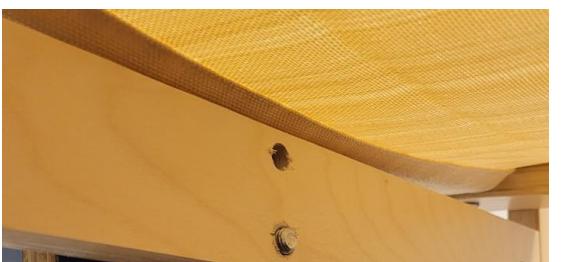
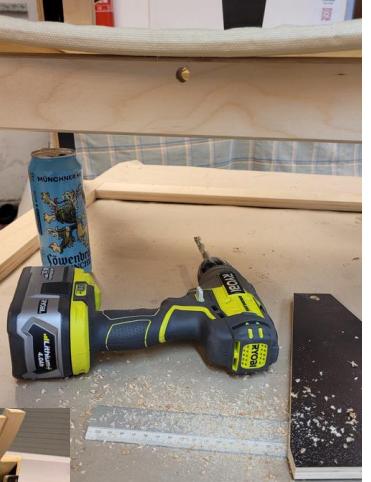
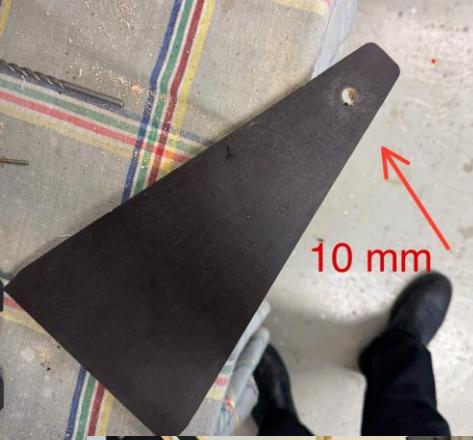


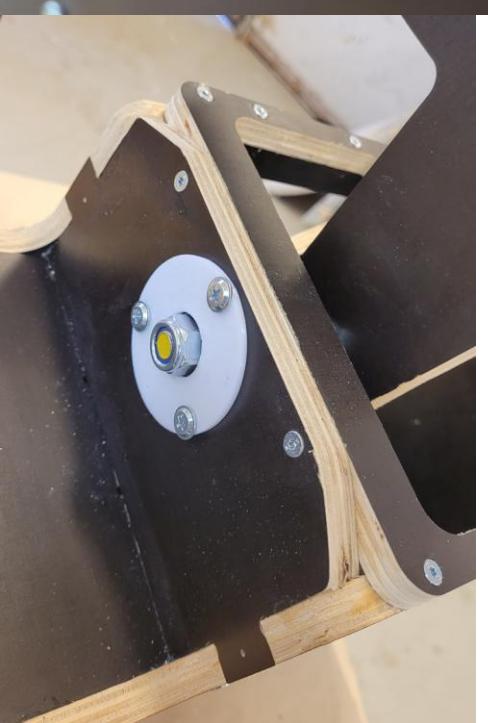
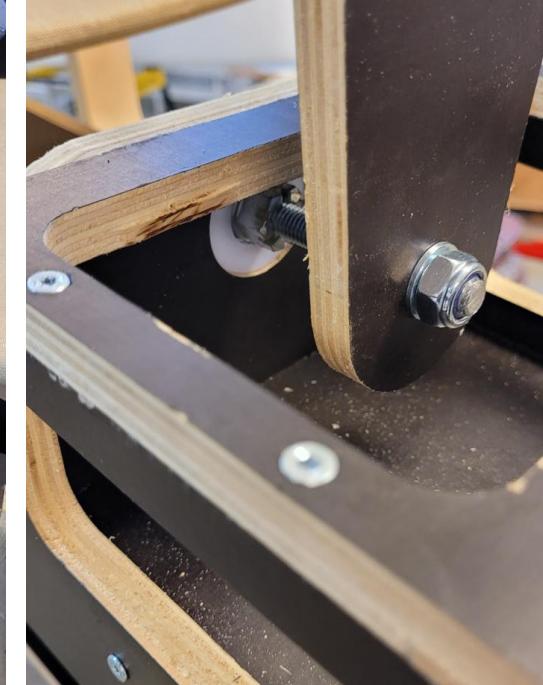
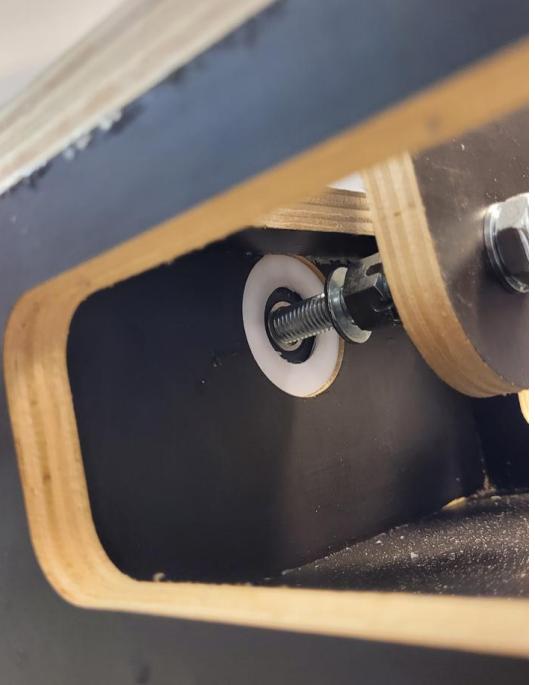
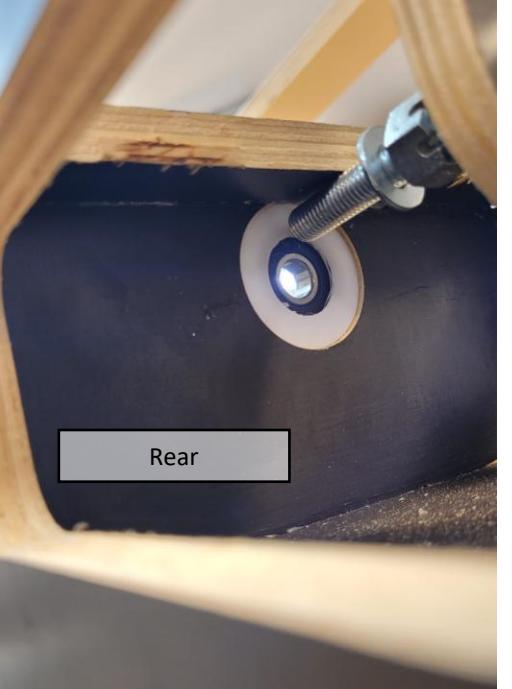




Yes, it looks like it's
container ship

Oops. We found a design flaw when assembling the prototype. This has been corrected since then.





Step 4, rear pedals

...

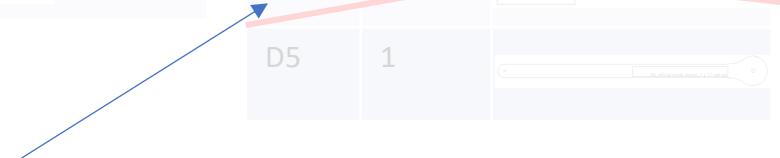
Name	Count	Sum = 12
A1	1	
A2	2	
A3	2	
A4	2	
A5	1	
A6	1	
A7	1	
A8	2	

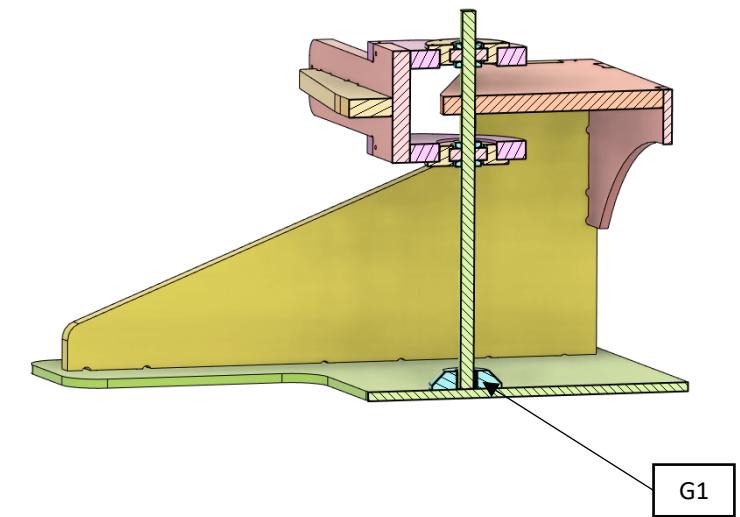
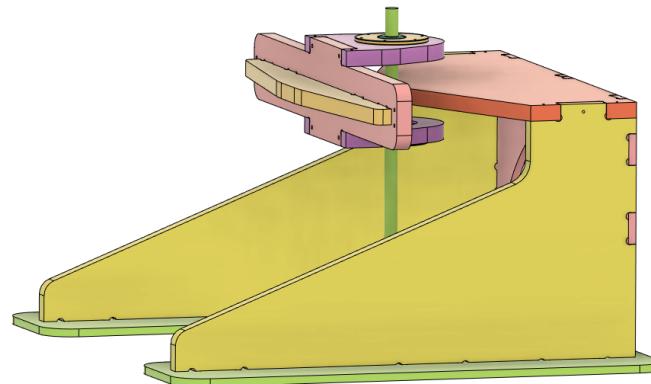
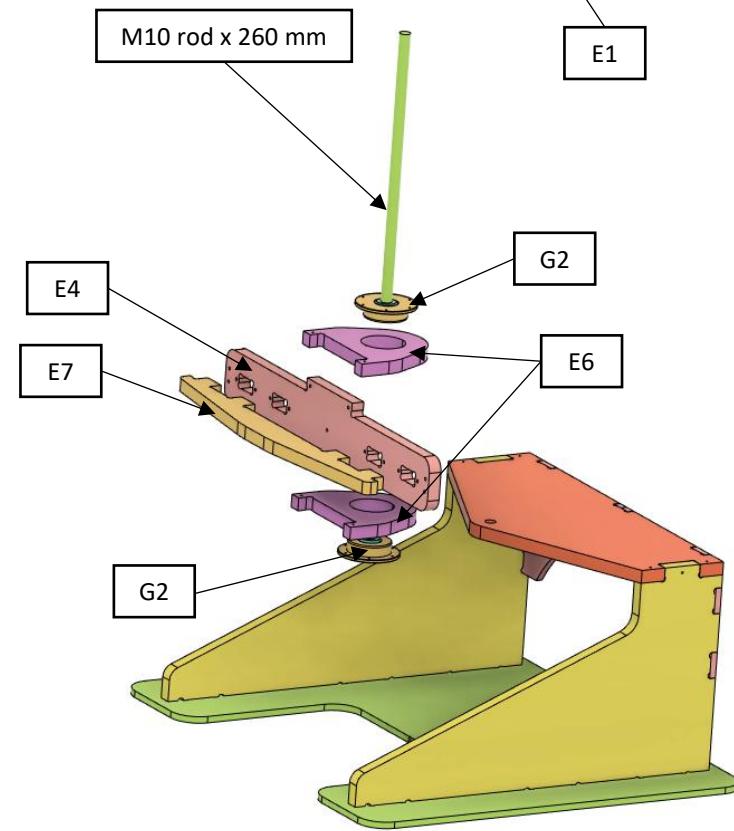
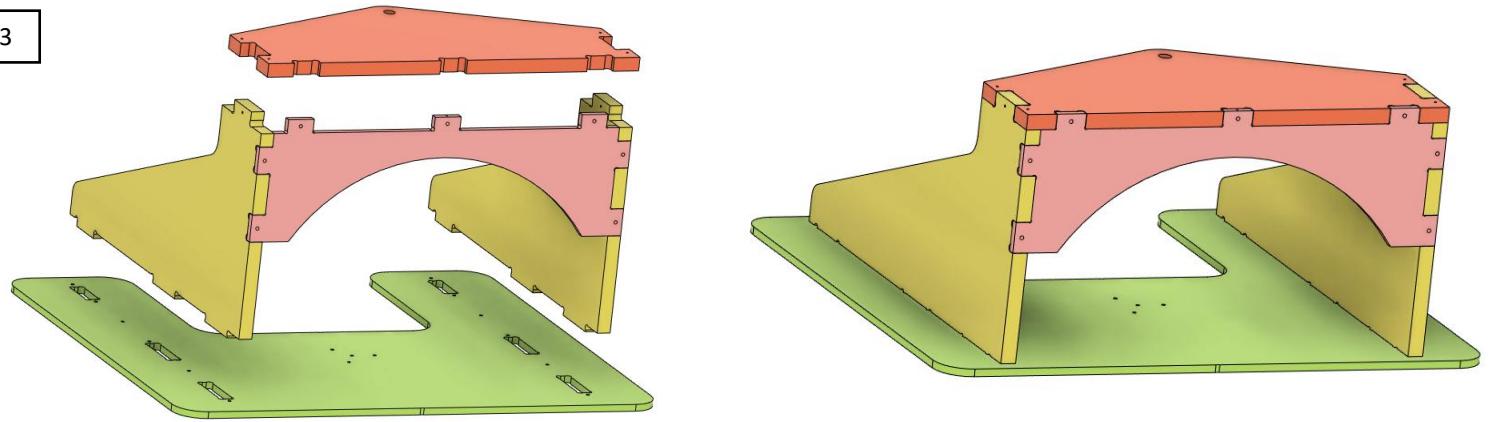
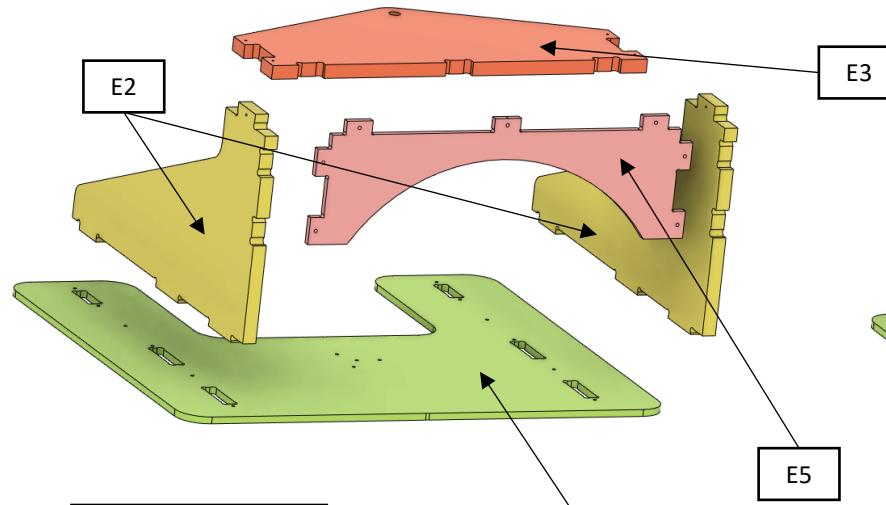
Name	Count	Sum = 15
B1	2	
B2	1	
B3	2	
B4	1	
B5	1	
B6	2	
B7	1	
B8	2	
B9	2	
B10	1	

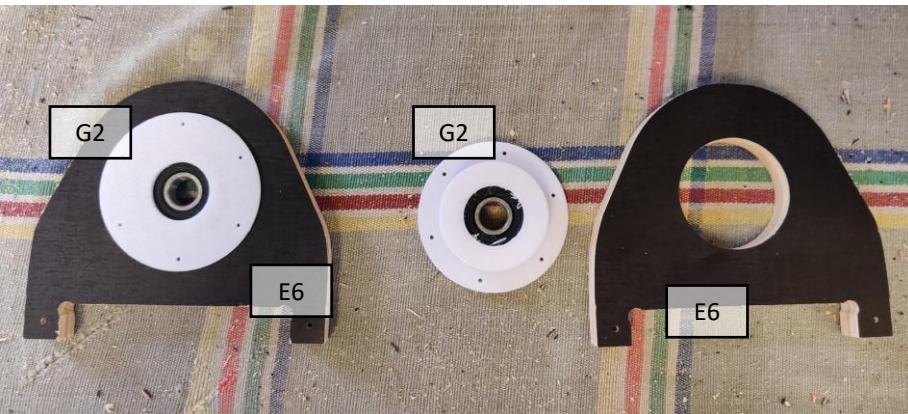
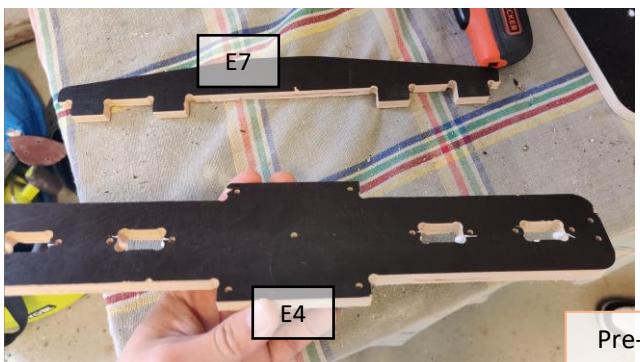
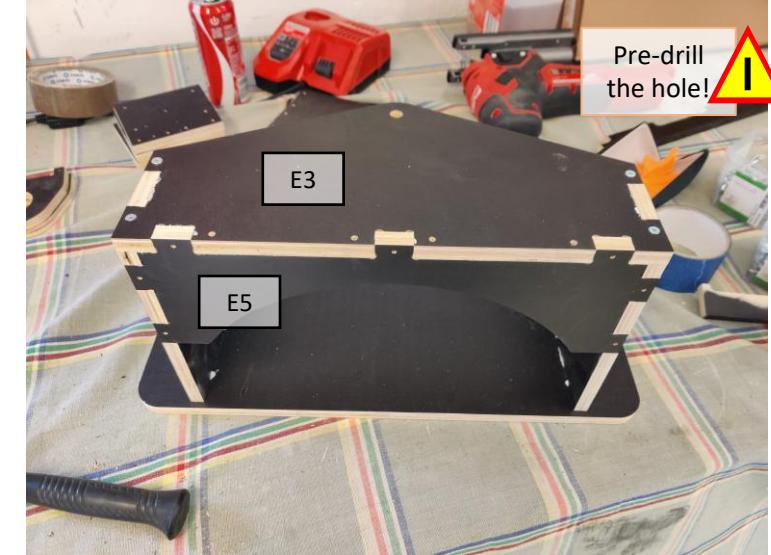
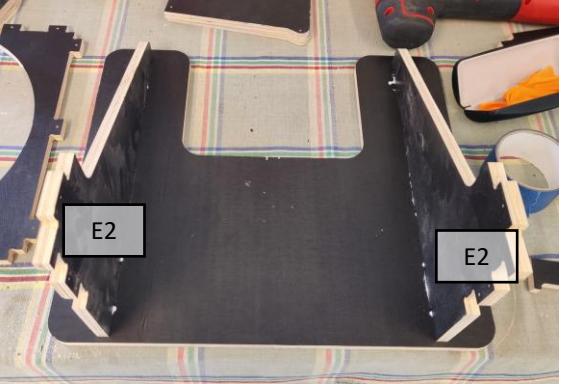
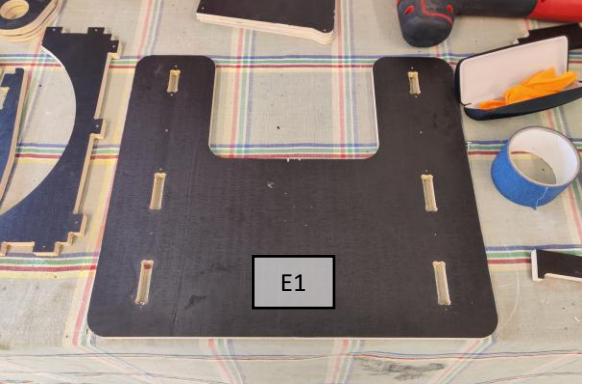
Name	Count	Sum = 5
C1	2	
C2	2	
C3	1	
D1	1	
D2	1	
D3	1	
D4	1	
D5	1	

Name	Count	Sum = 15
E1	1	
E2	2	
E3	1	
E4	1	
E5	1	
E6	2	
E7	1	
E8	4	
E9	2	

Redesigned, will be
3D-printed instead

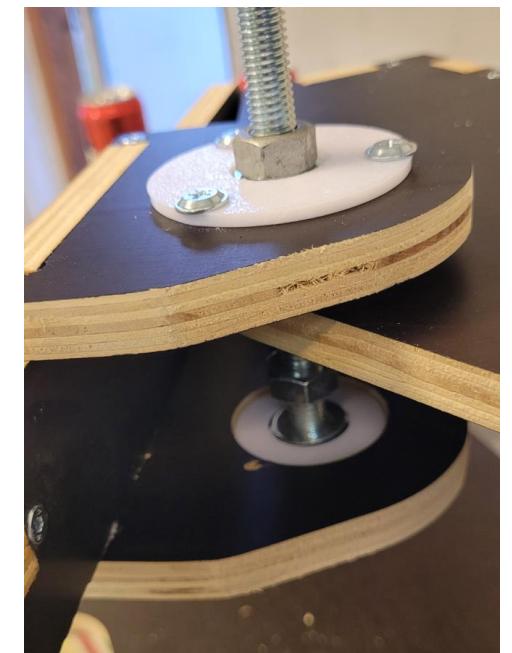
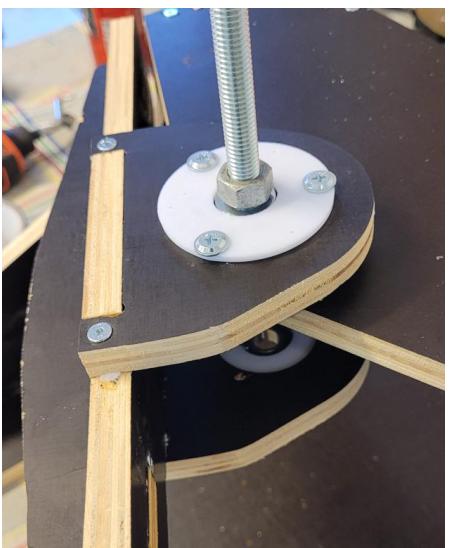
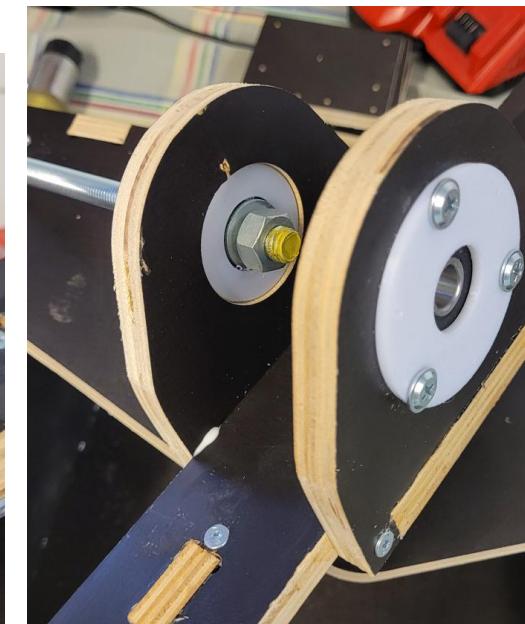


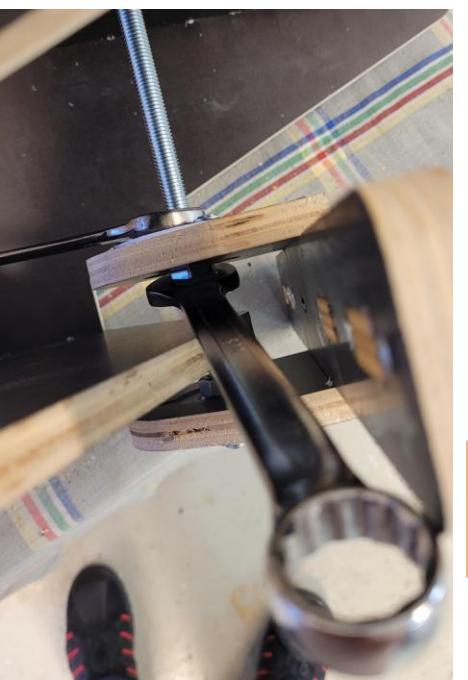
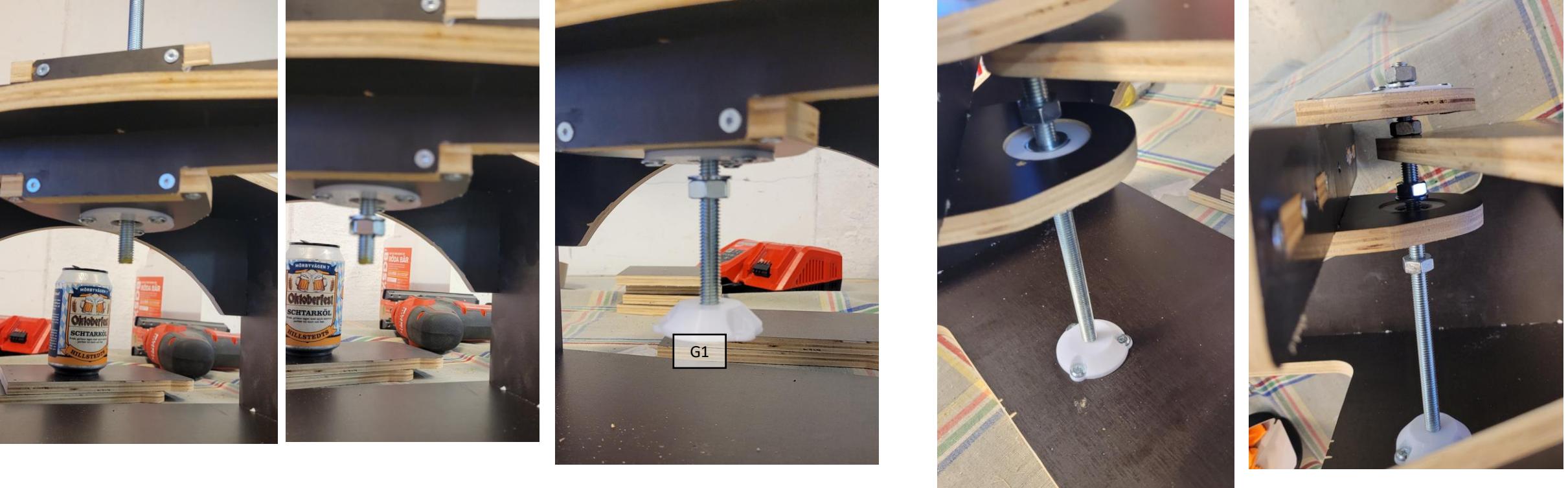




Make sure the screws
of G2 in on outside ...

Measure proper length of M10 rod

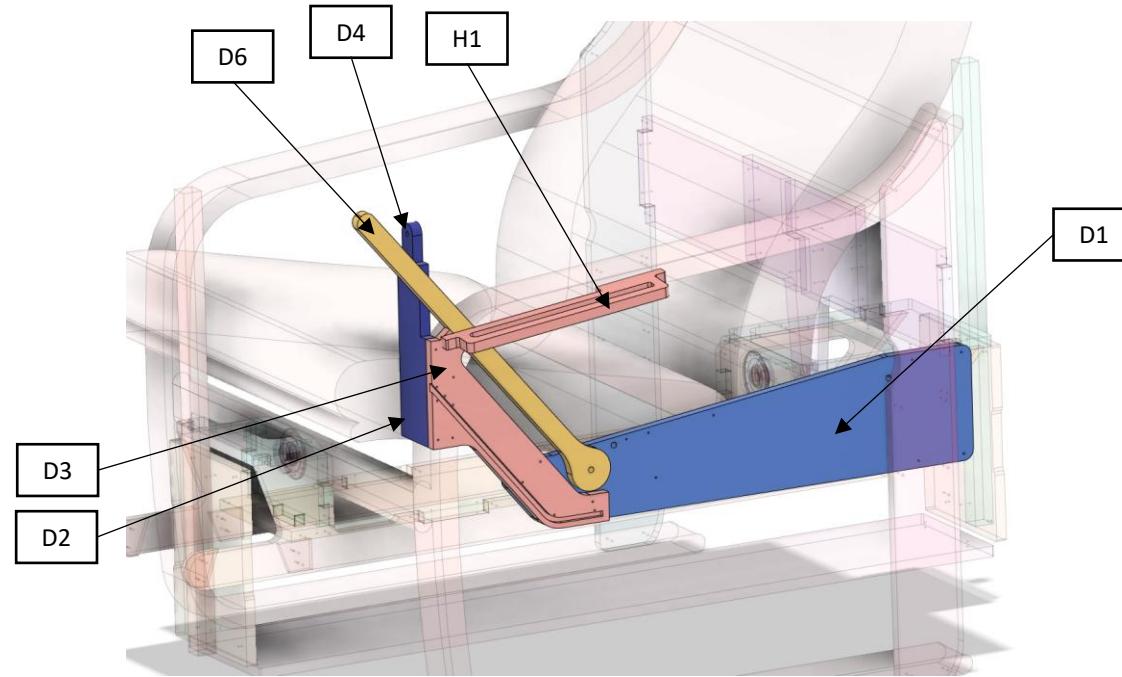


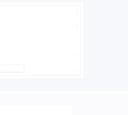
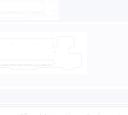


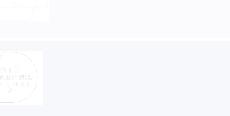
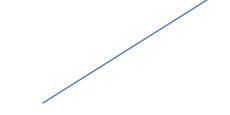
Tighten all
4 nuts.

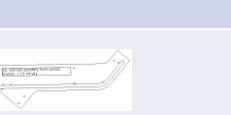
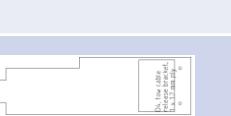
Step 5, chair and side

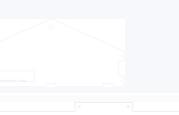
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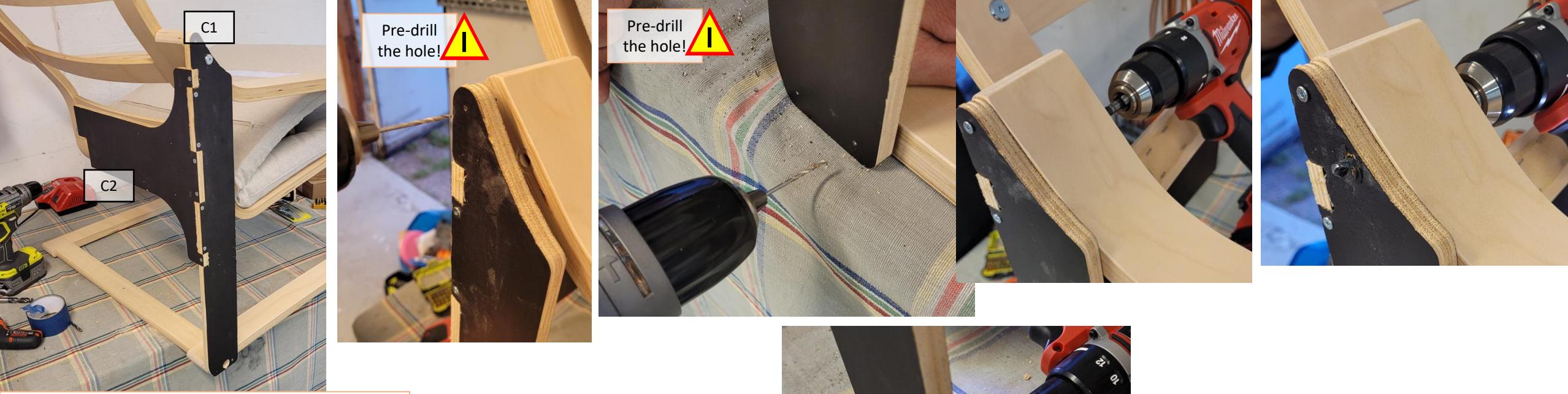
Name	Count	Sum = 12
A1	1	
A2	2	
A3	2	
A4	2	
A5	1	
A6	1	
A7	1	
A8	2	

Name	Count	Sum = 15
B1	2	
B2	1	
B3	2	
B4	1	
B5	1	
B6	2	
B7	1	
B8	2	
B9	2	
B10	1	

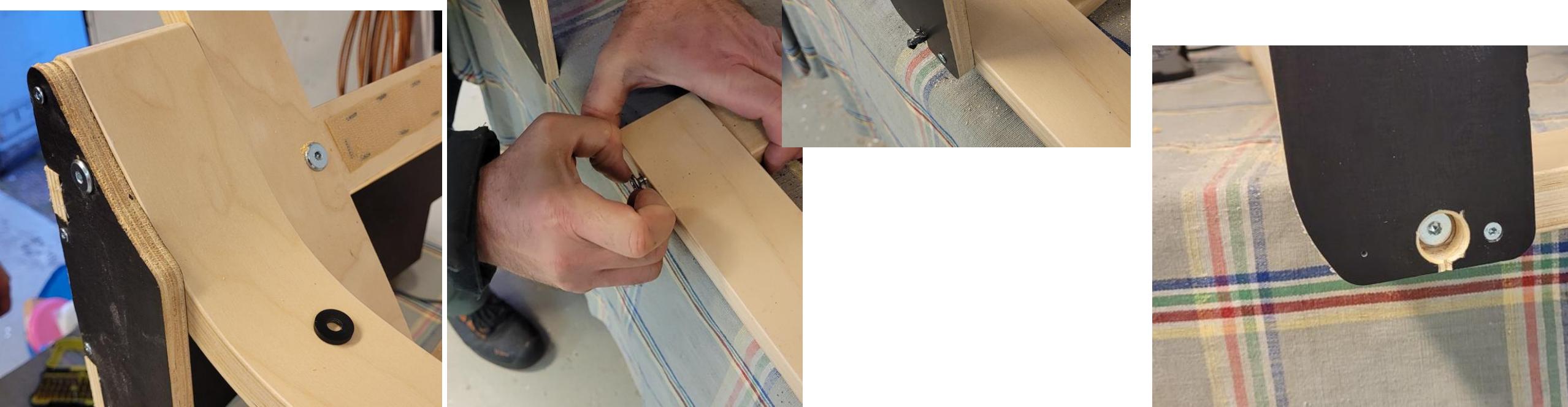
Name	Count	Sum = 5
C1	2	
C2	2	
C3	1	
D1	1	
D2	1	
D3	1	
D4	1	
D5	1	

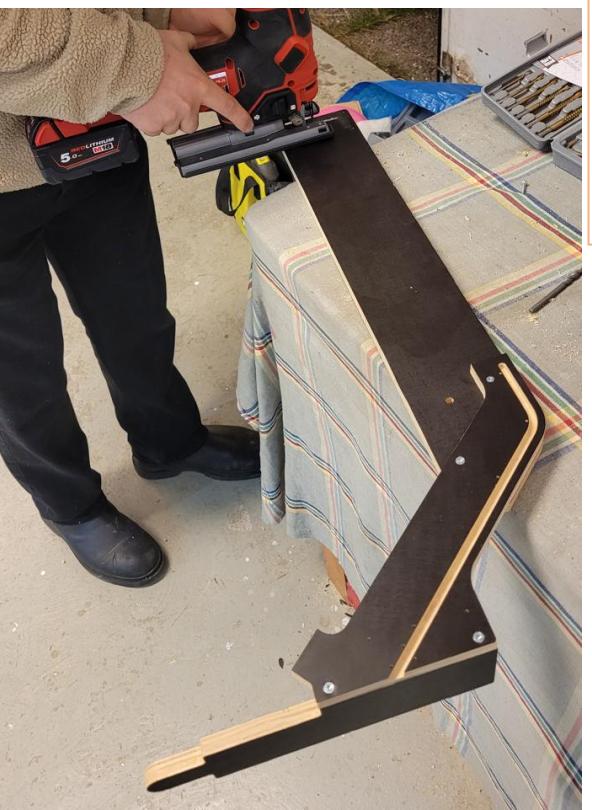
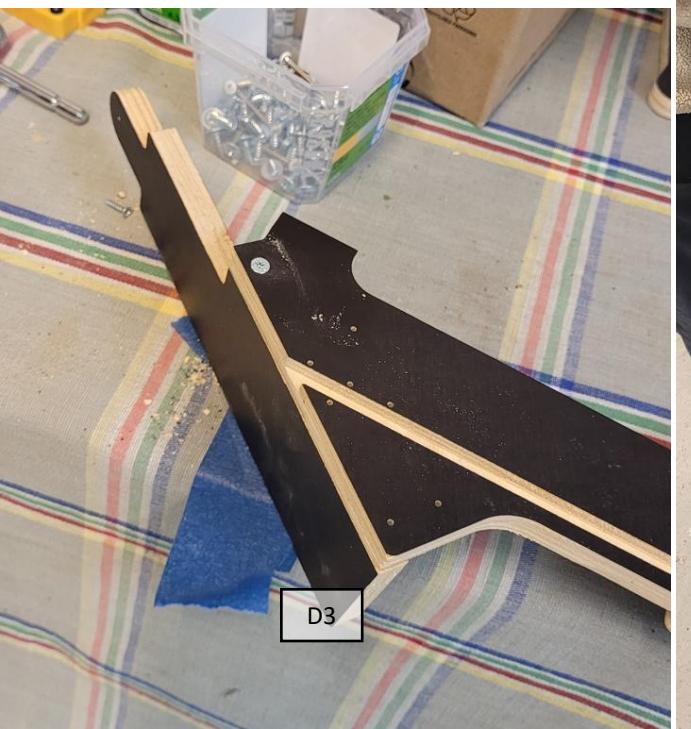
Name	Count	Sum = 15
E1	1	
E2	2	
E3	1	
E4	1	
E5	1	
E6	2	
E7	1	
E8	4	
E9	2	

Redesigned, will be
3D-printed instead

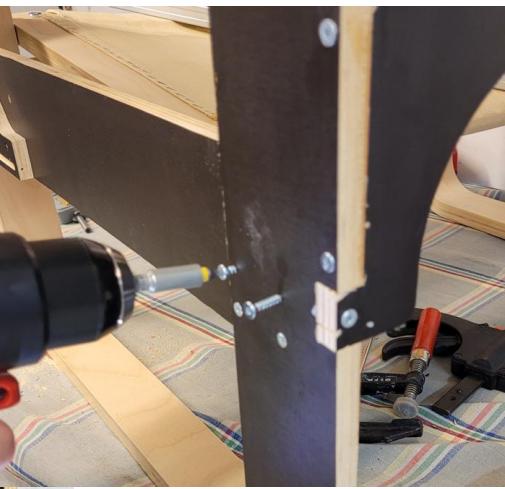


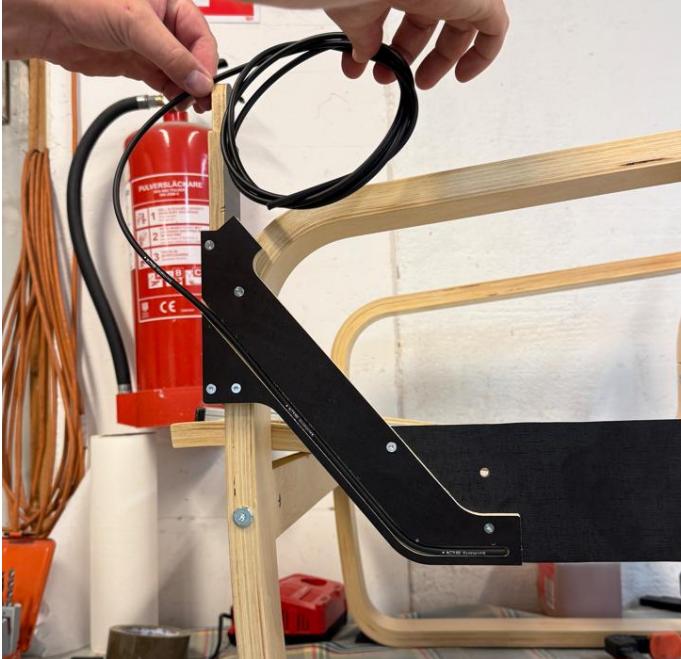
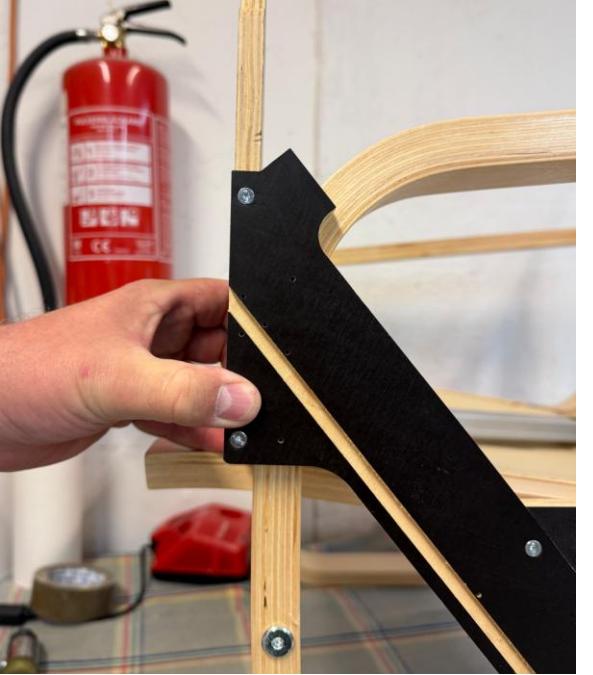
We forgot to take pictures, but
assemble C1 and C2, both sides.



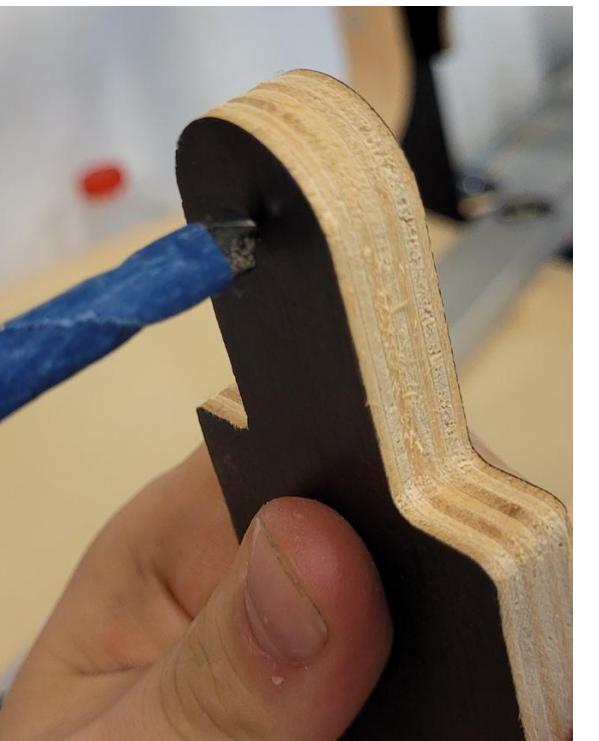


D2 may be a bit
too long. Adjust
at your own
discretion



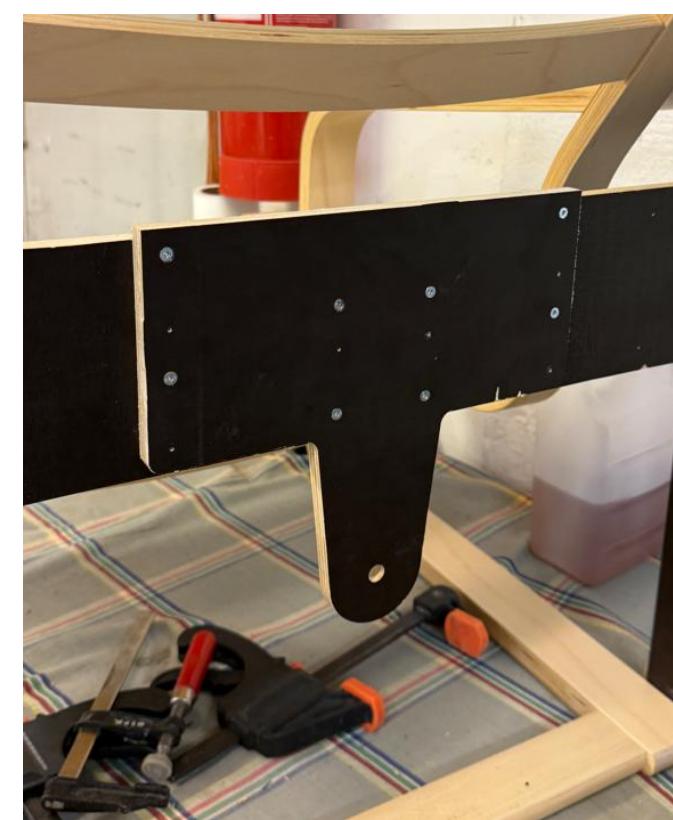
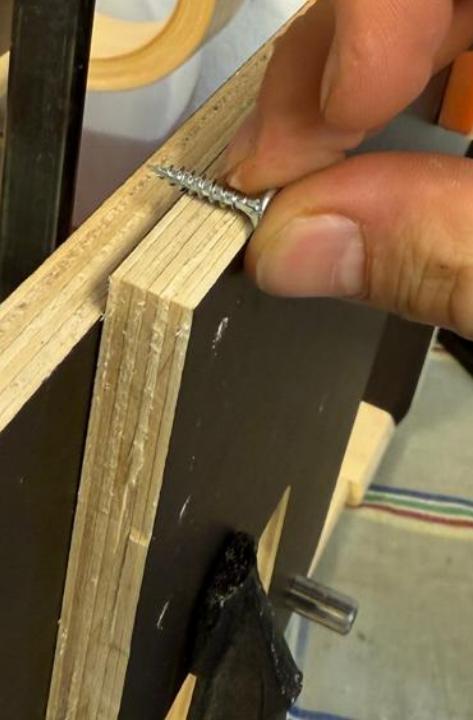


Drill Ø: 6.5 mm
No deeper than
6 mm. The end
of Bowden cable
shall fit.

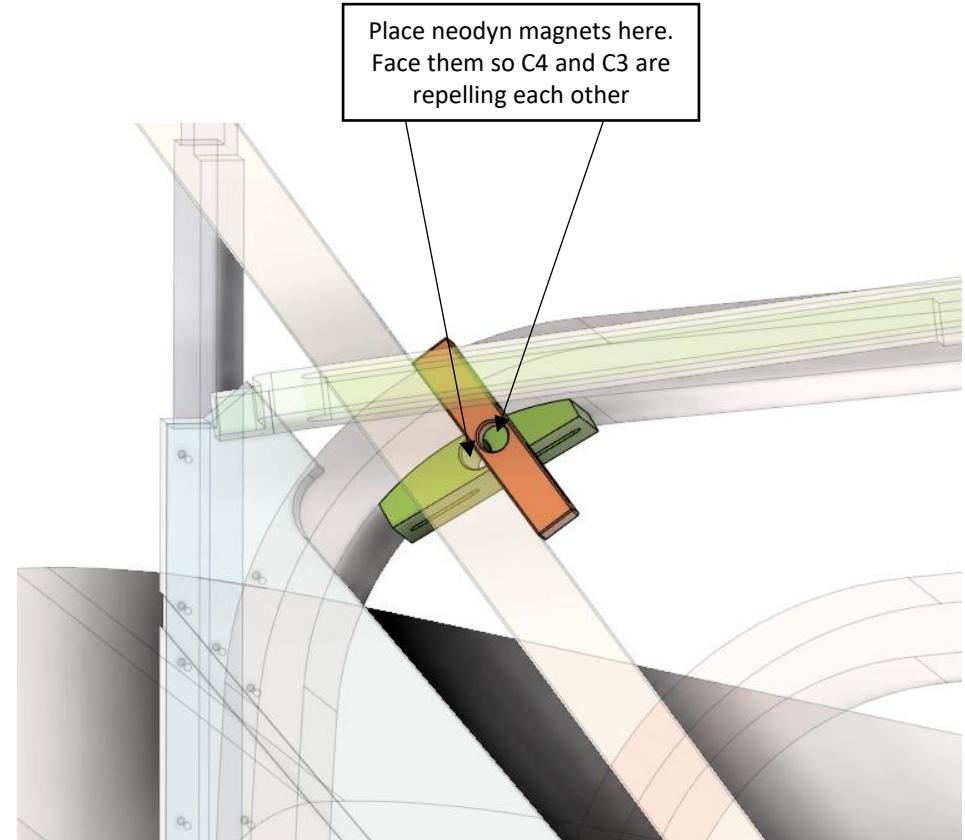
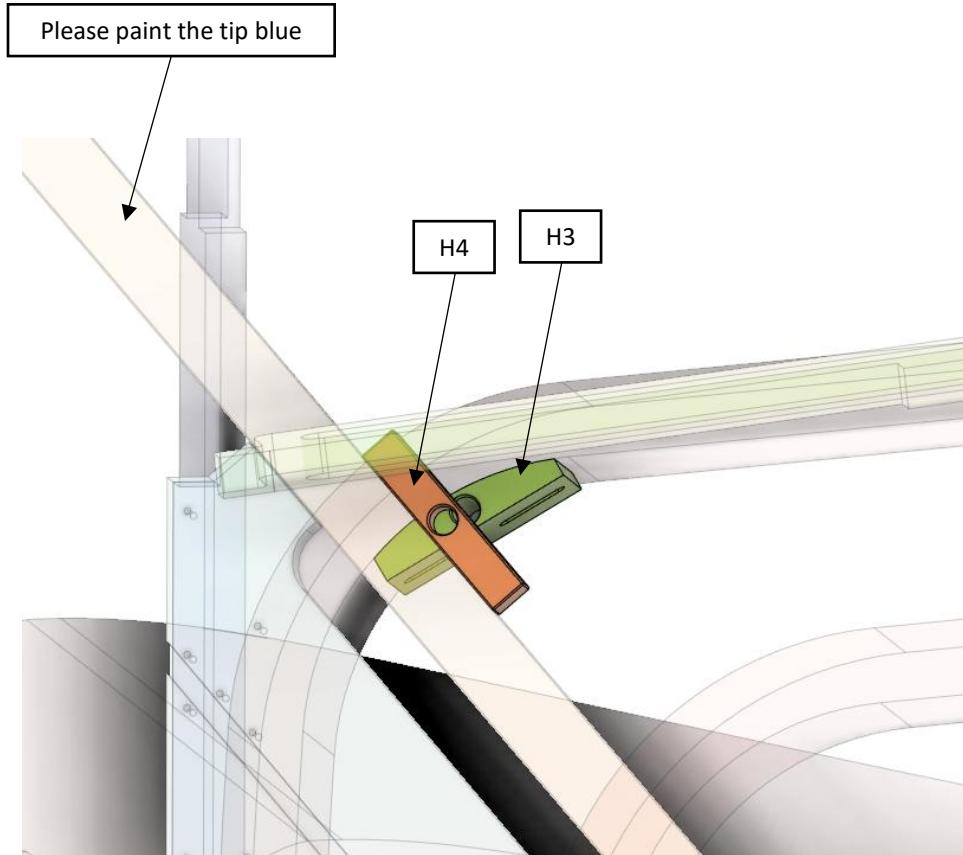
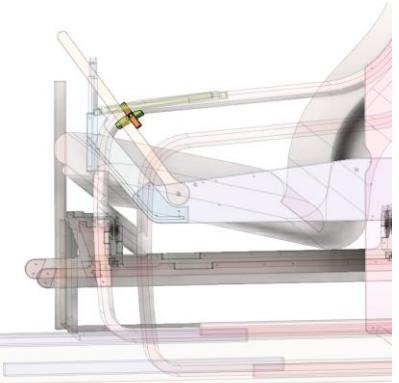




Find the center.

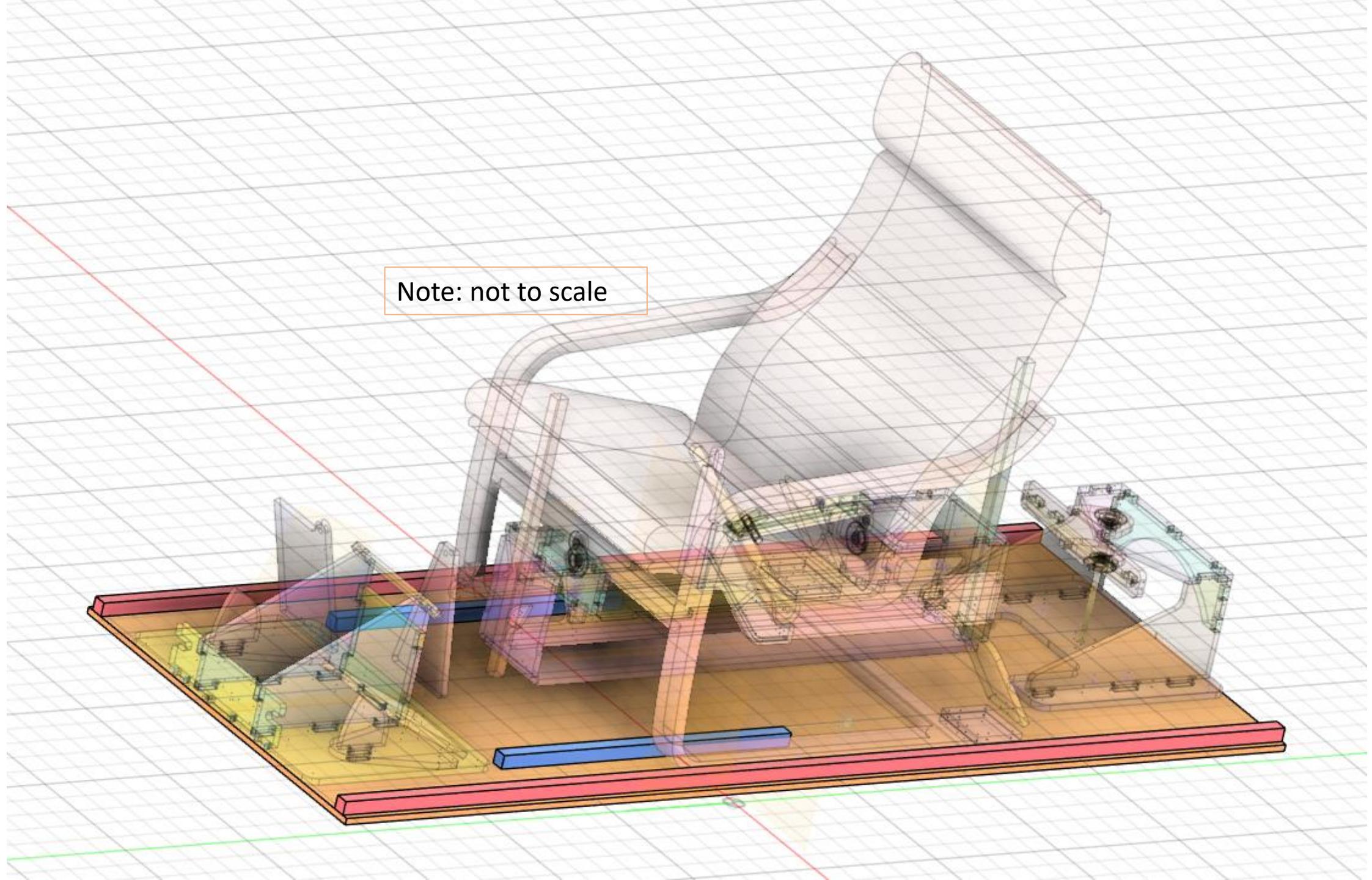


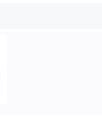
This is to simulate the air brake leaver lock.



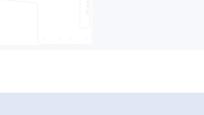
Step 6, base plate

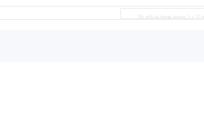
...

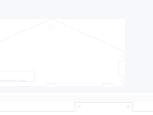


Name	Count	Sum = 12
A1	1	
A2	2	
A3	2	
A4	2	
A5	1	
A6	1	
A7	1	
A8	2	

Name	Count	Sum = 15
B1	2	
B2	1	
B3	2	
B4	1	
B5	1	
B6	2	
B7	1	
B8	2	
B9	2	
B10	1	

Name	Count	Sum = 5
C1	2	
C2	2	
C3	1	

Name	Count	
D1	1	
D2	1	
D3	1	
D4	1	
D5	1	

Name	Count	Sum = 15
E1	1	
E2	2	
E3	1	
E4	1	
E5	1	
E6	2	
E7	1	
E8	4	
E9	2	

Redesigned, will be
3D-printed instead



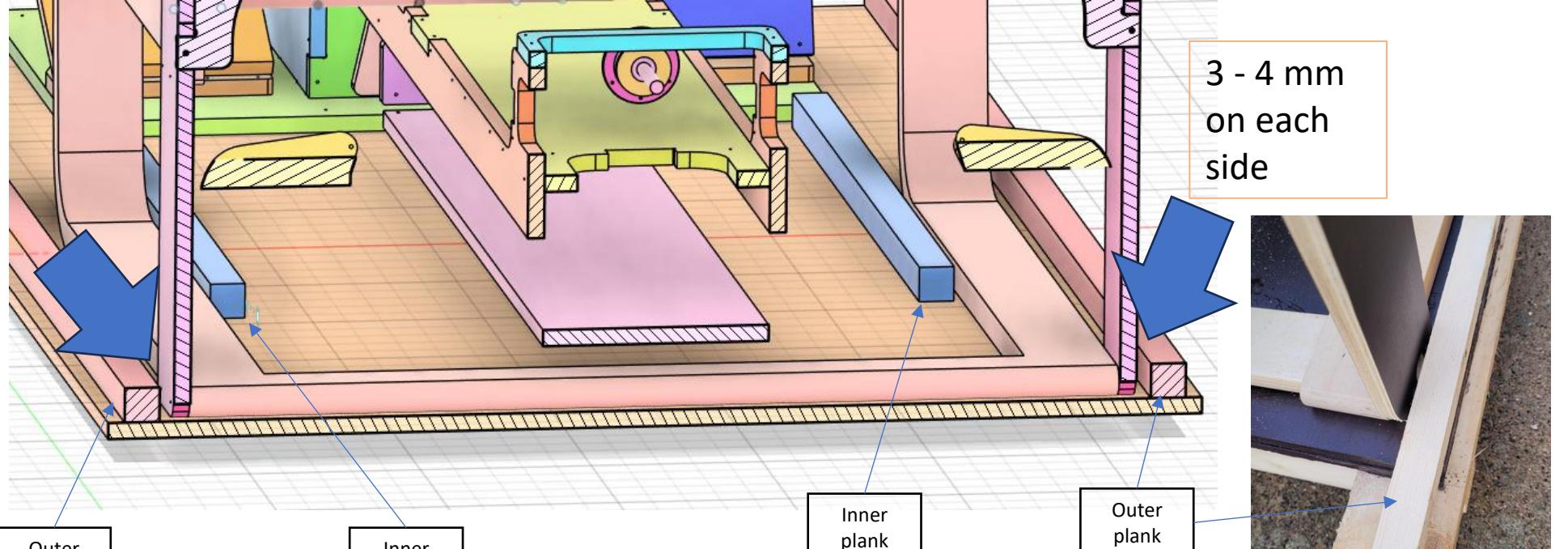


Mount front pedals to the front aligned in the centre.



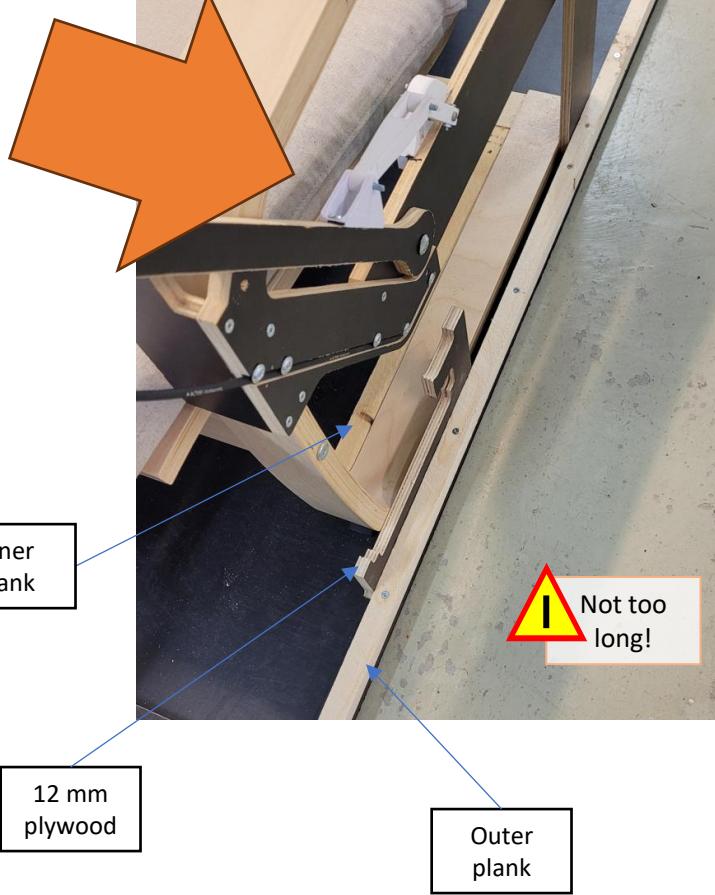
Since the base plate shall be on the floor, make sure the screws are in adequate length. If they are too long they will damage the floor.







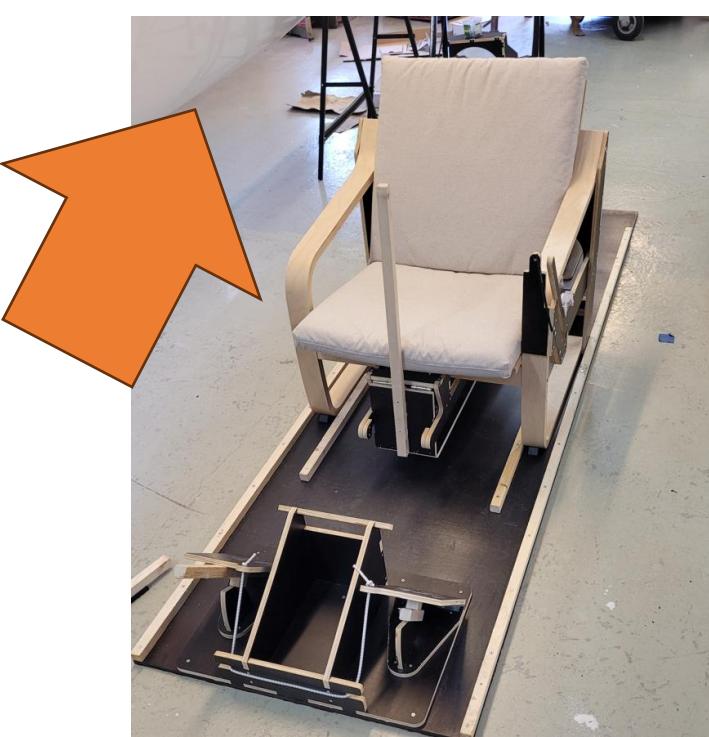
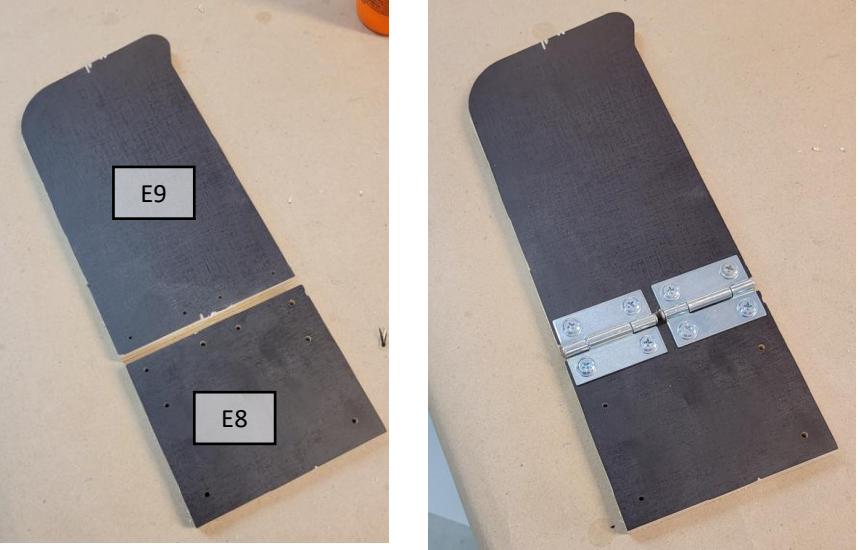
1. Mount outer planks.
2. Push chair to front to simulate a short pilot.



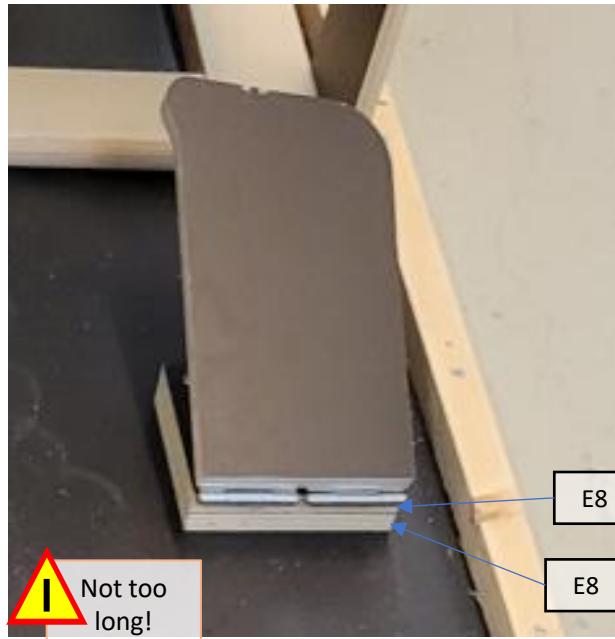
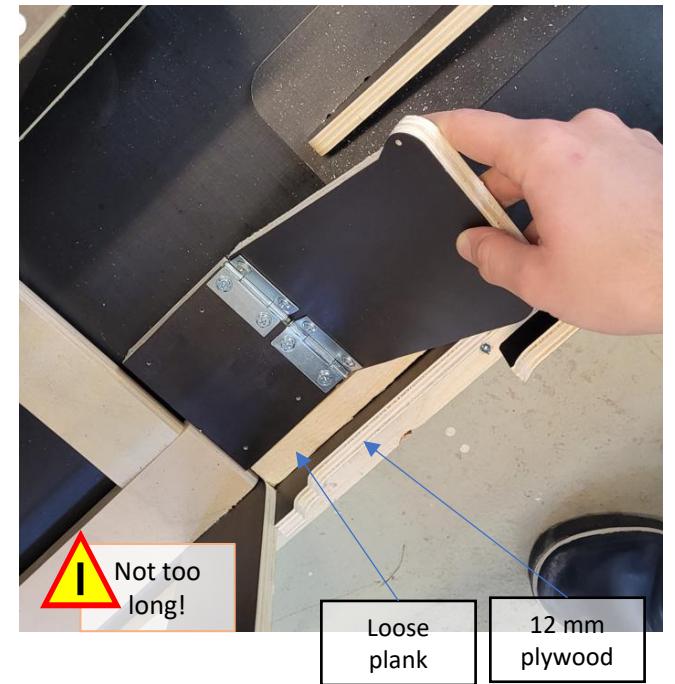
3. Place a 12 mm piece of plywood between chair and outer plank.
4. Push the chair firmly against outer plank.
5. Screw down inner plank to base plate.



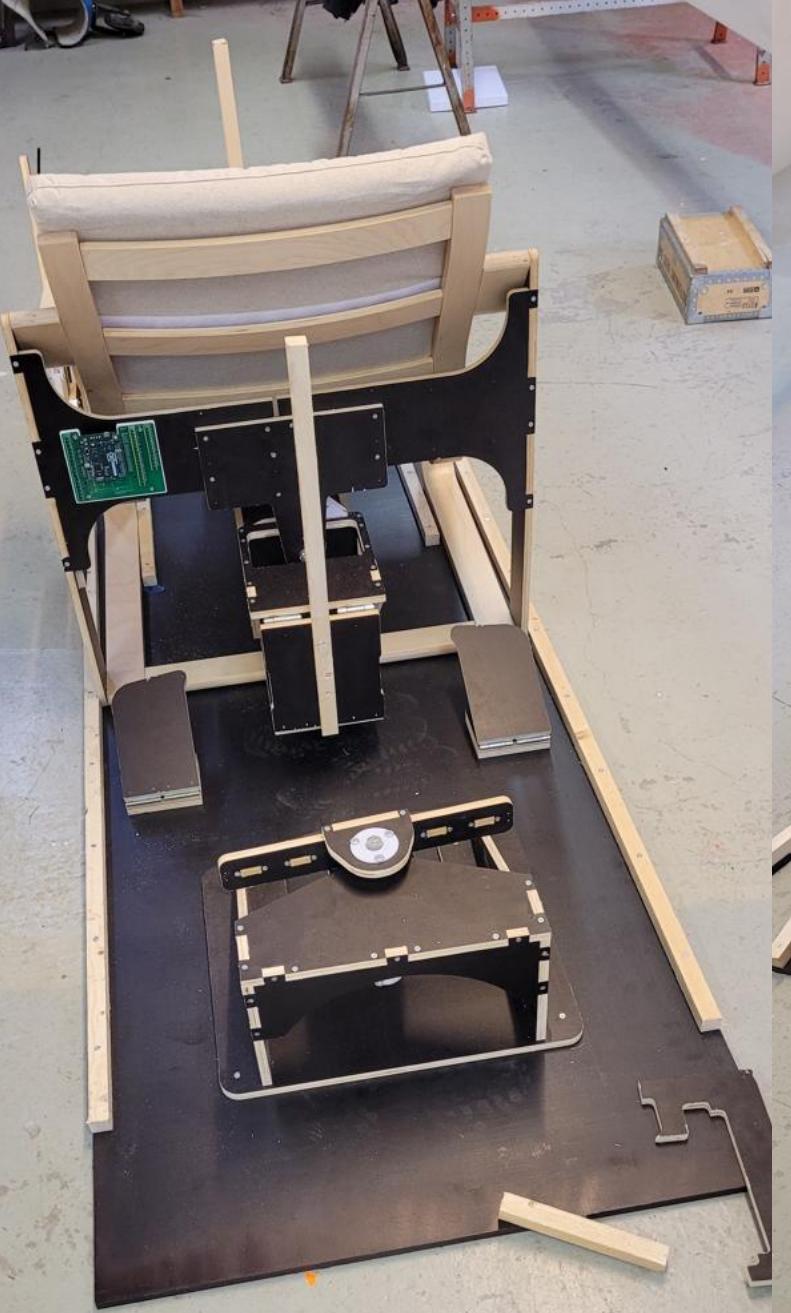
- To the same thin at the other side:
6. Place a 12 mm piece of plywood between chair and outer plank.
 7. Push the chair firmly against outer plank.
 8. Screw down inner plank to base plate.



Push chair to back
so a very long
basket player pilot
sits comfortably.

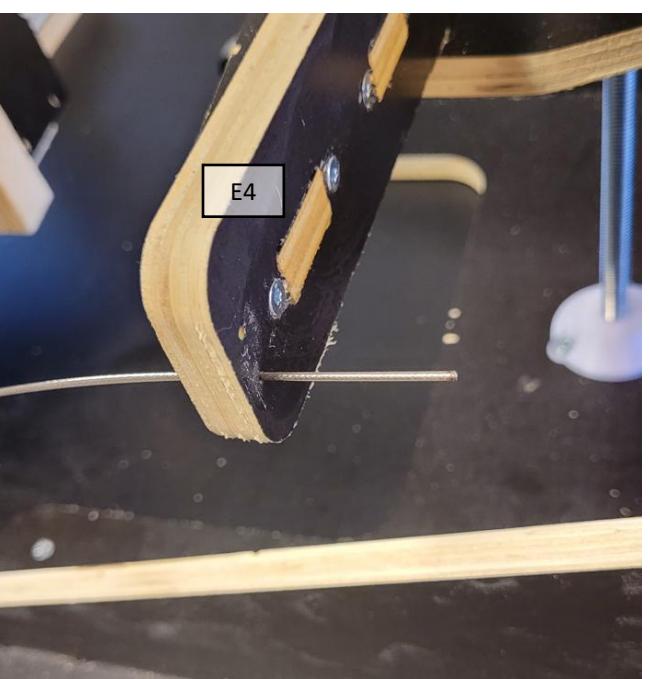
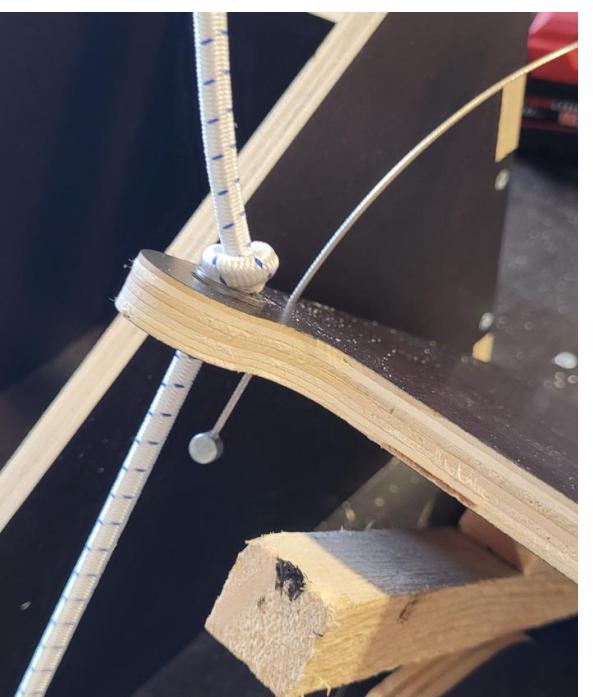
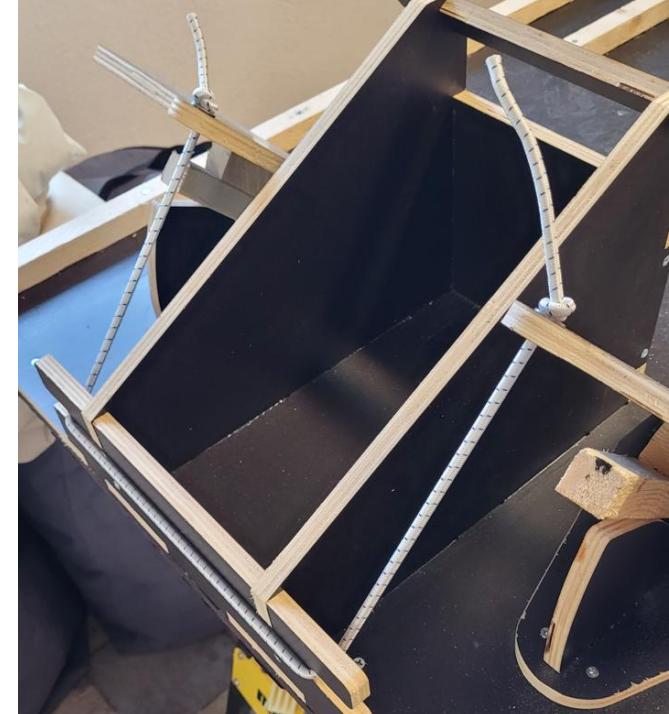
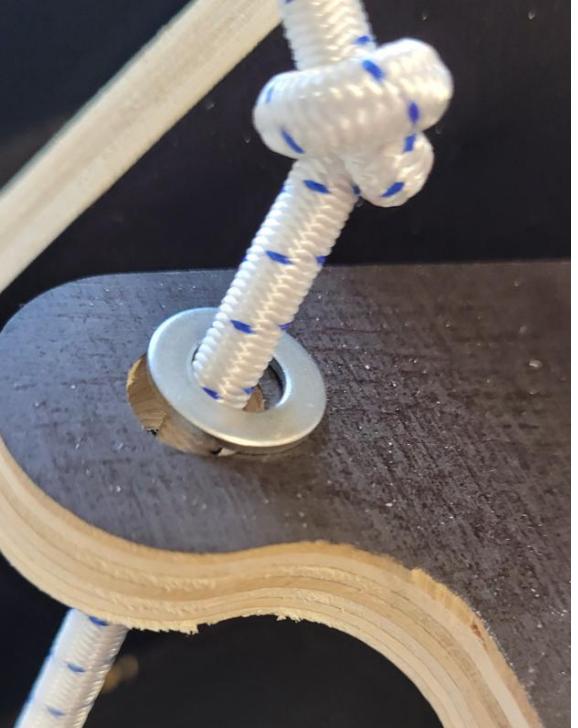


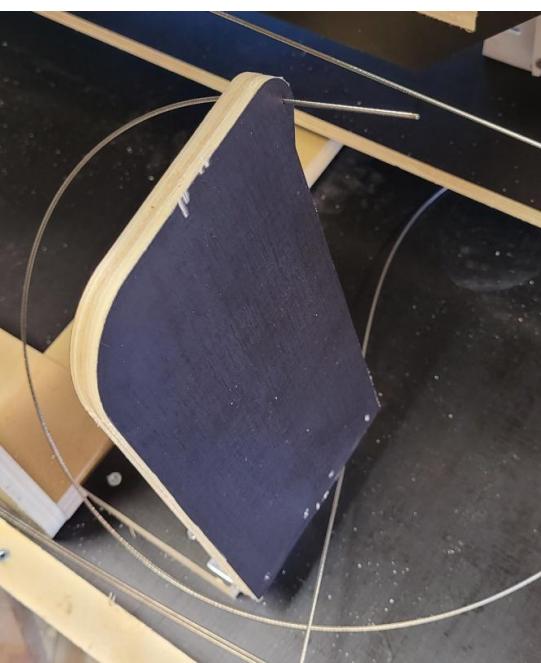
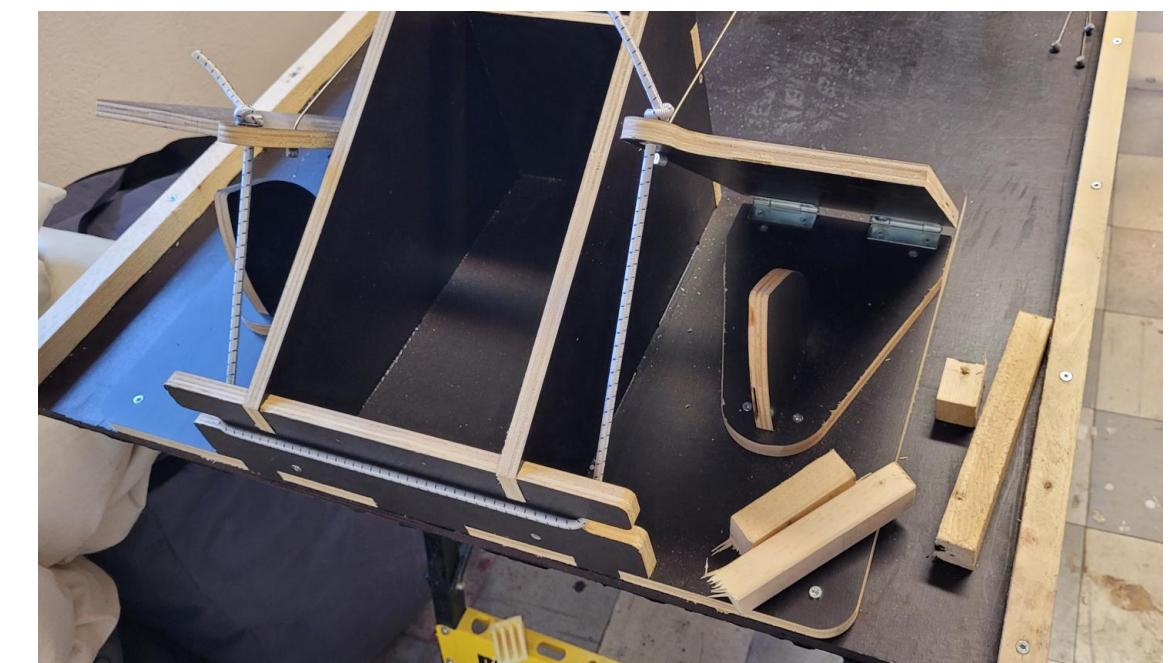
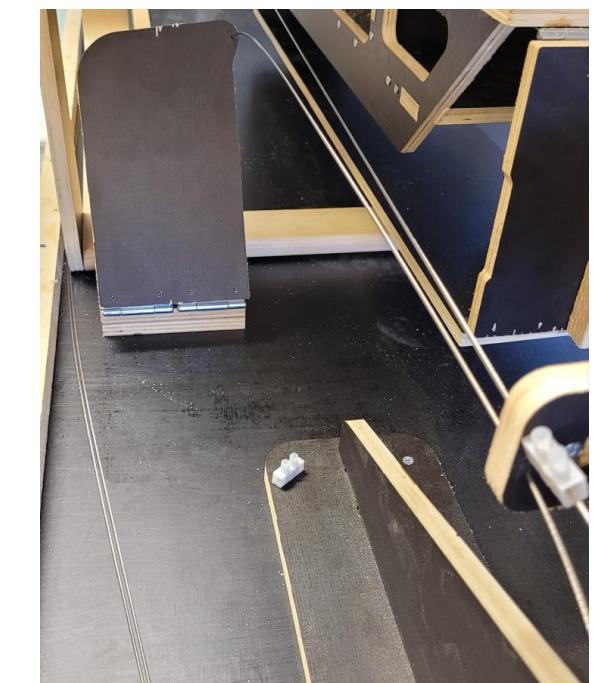
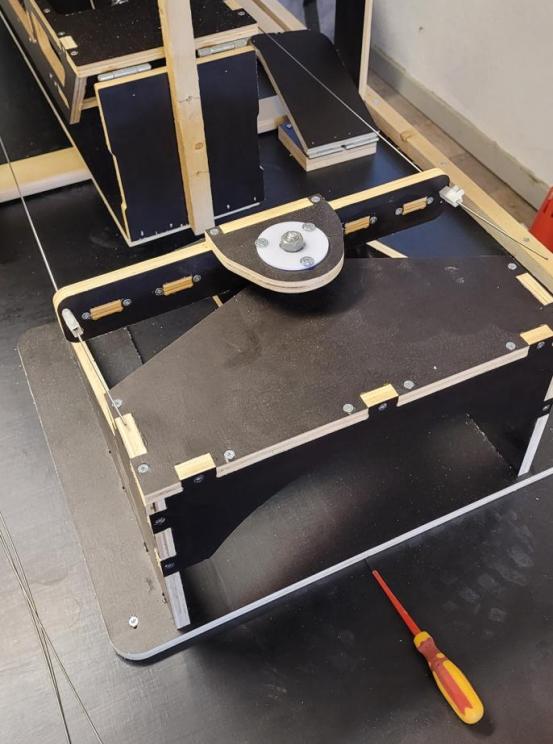
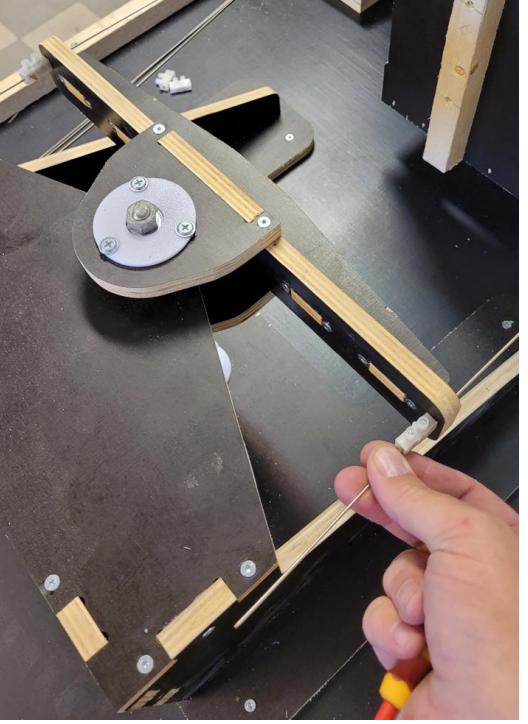
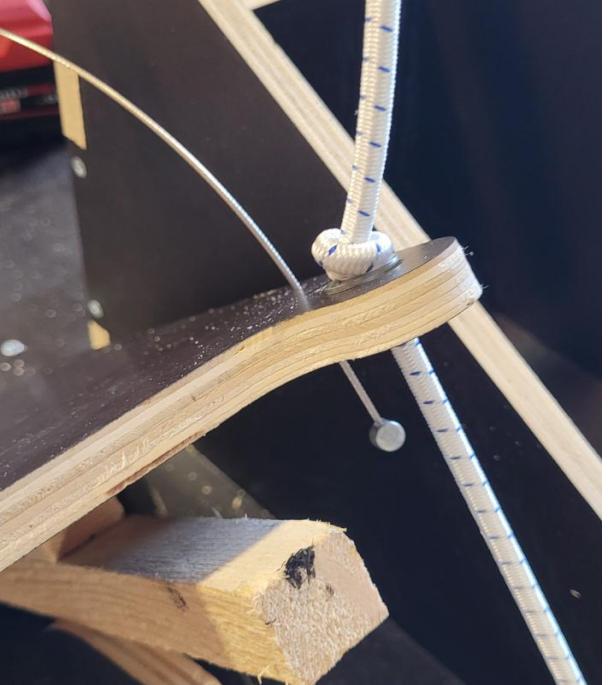
Note: 2 x E8 on top of each other!

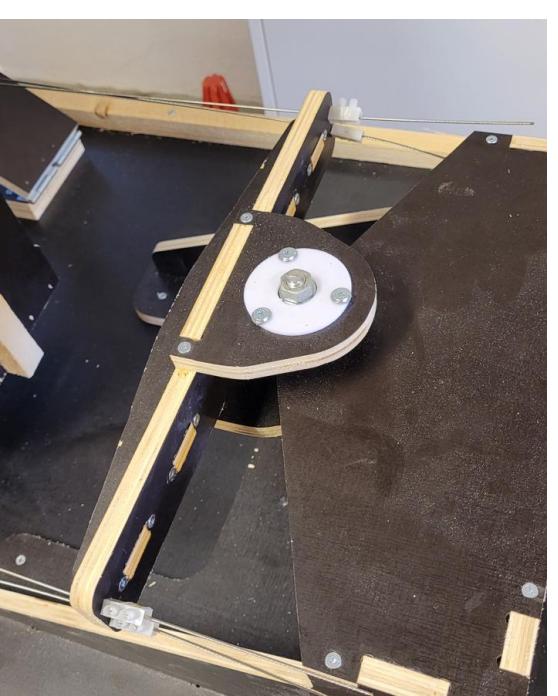
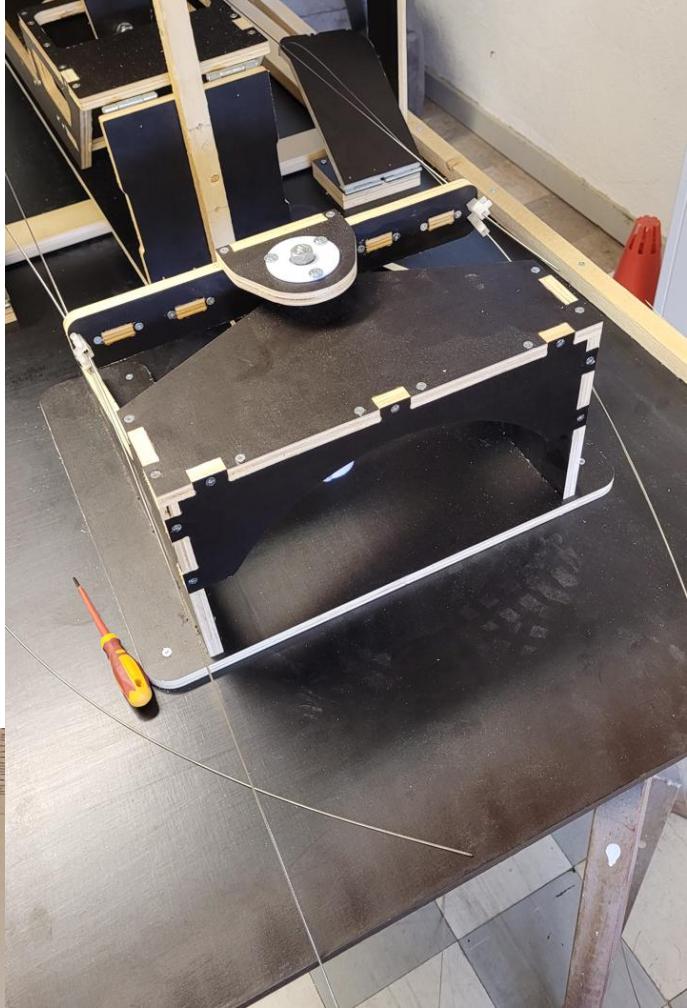
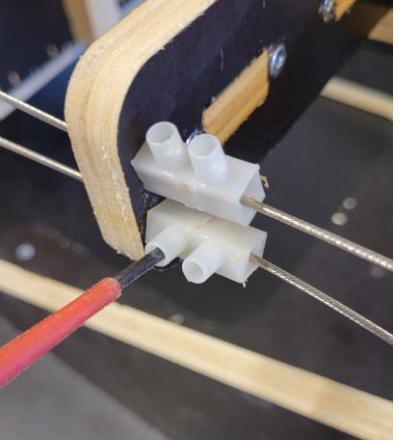
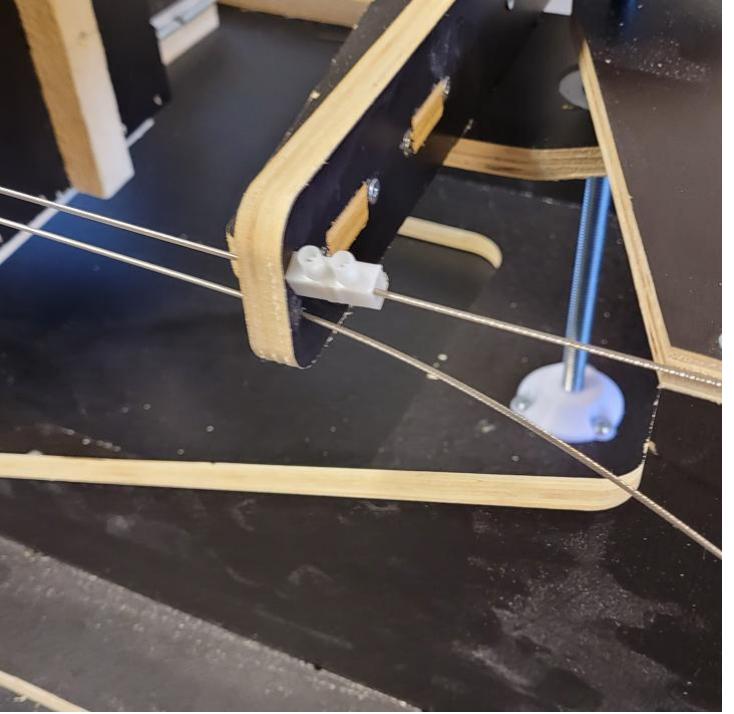


Step 7, wires and rubber bands

...





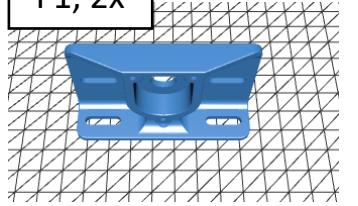




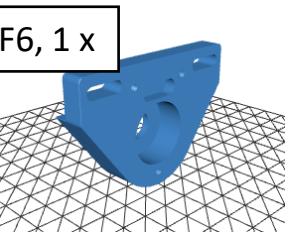
Step 7, the electronics stuff

...

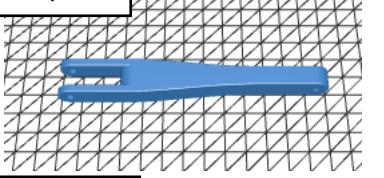
F1, 2x



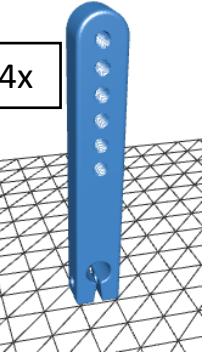
F6, 1 x



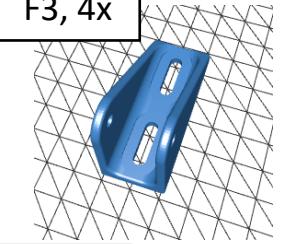
F2, 2x



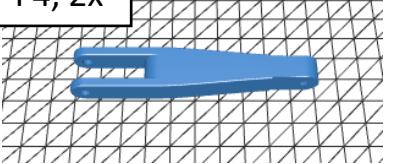
F7, 4x



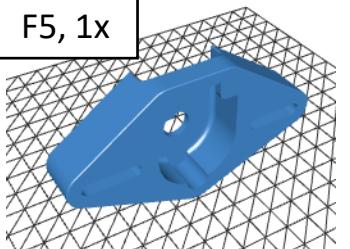
F3, 4x



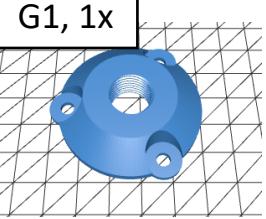
F4, 2x



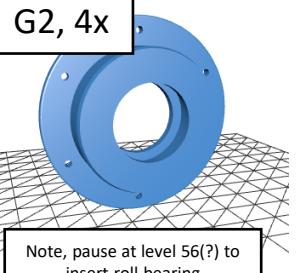
F5, 1x



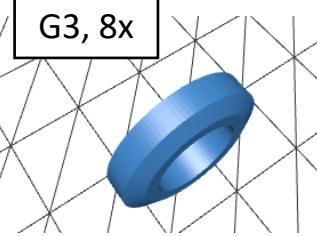
G1, 1x



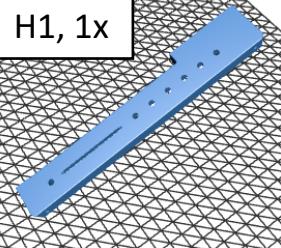
G2, 4x



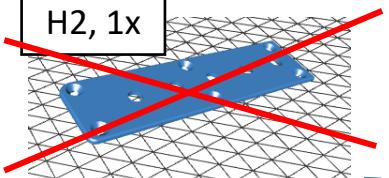
G3, 8x



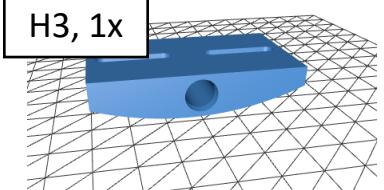
H1, 1x



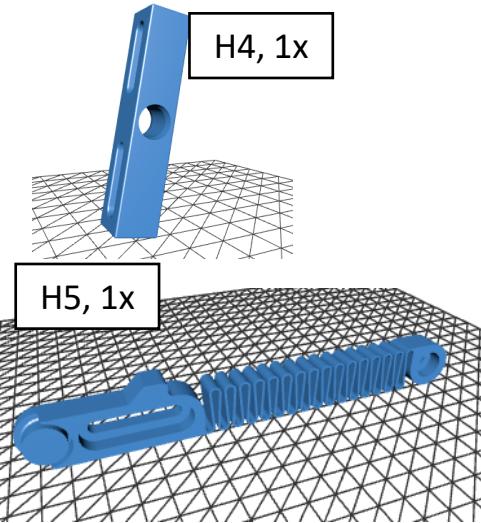
H2, 1x



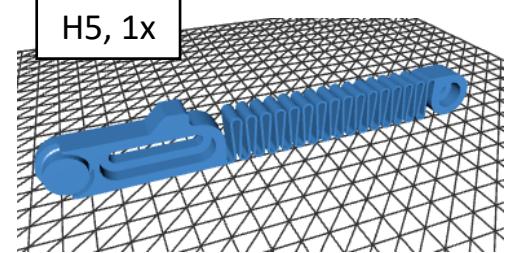
H3, 1x



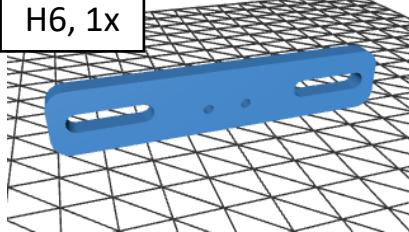
H4, 1x



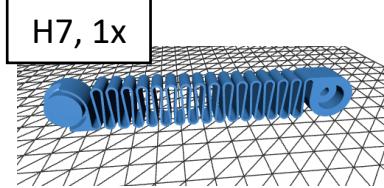
H5, 1x



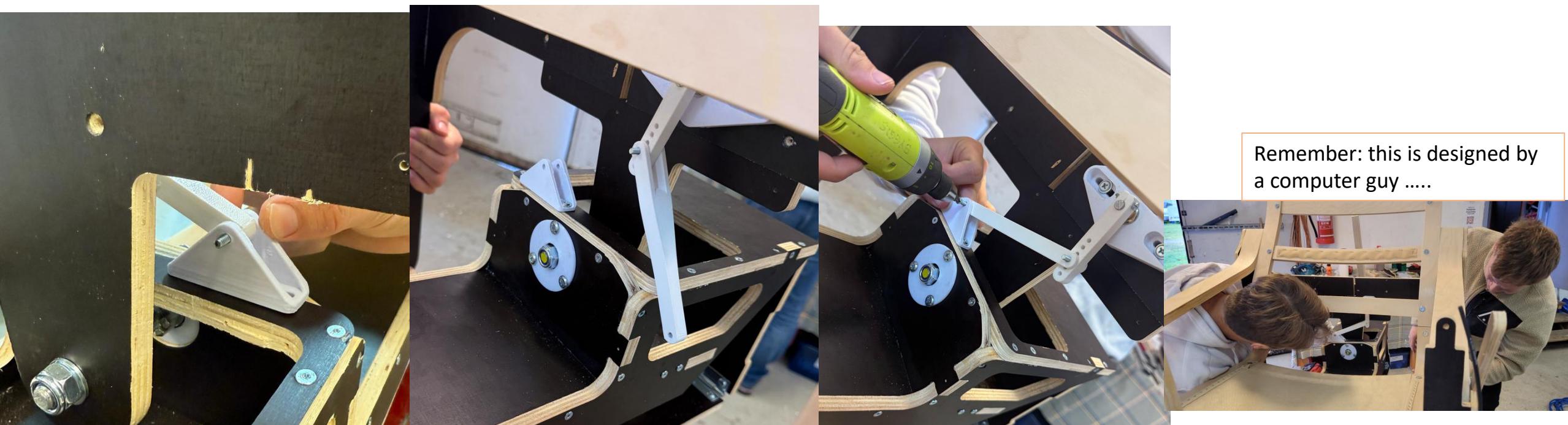
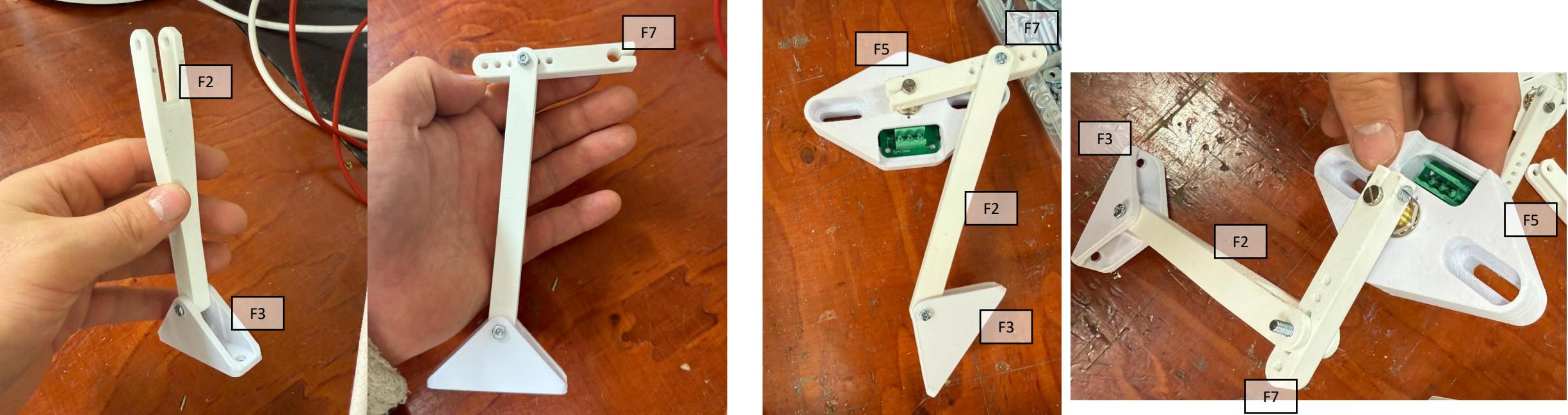
H6, 1x

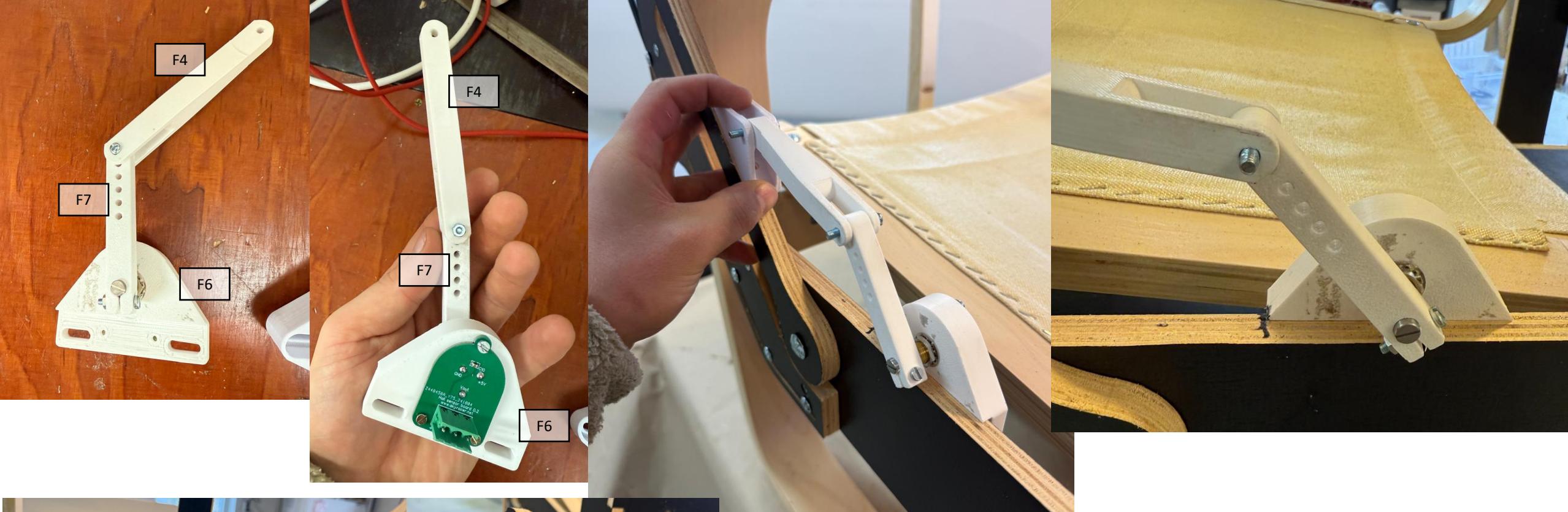


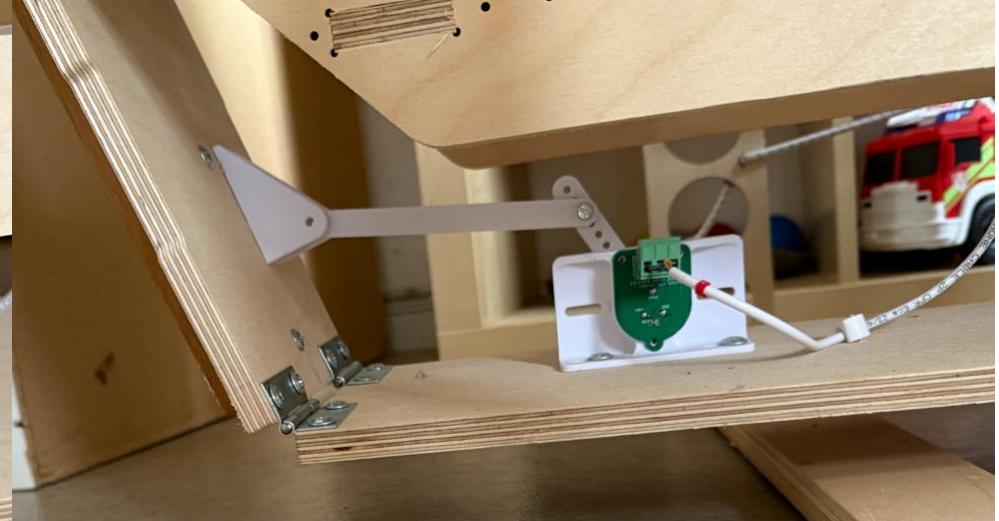
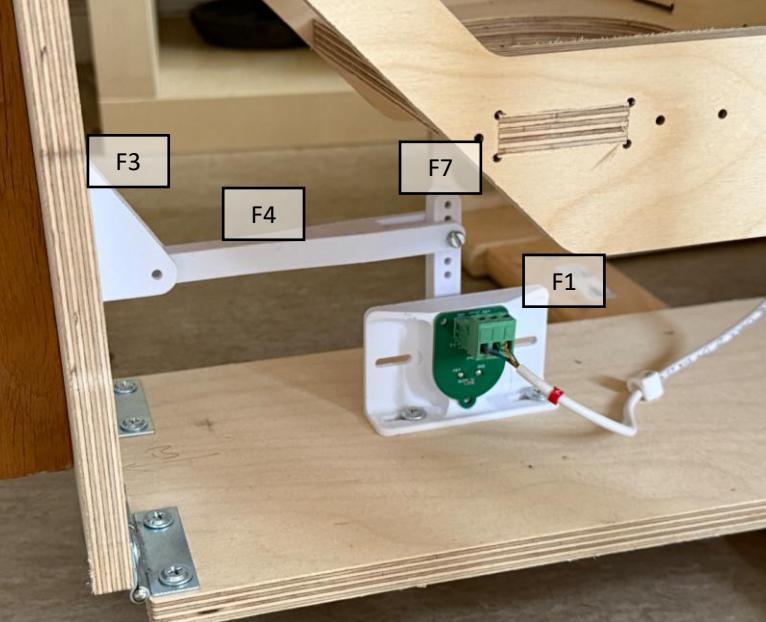
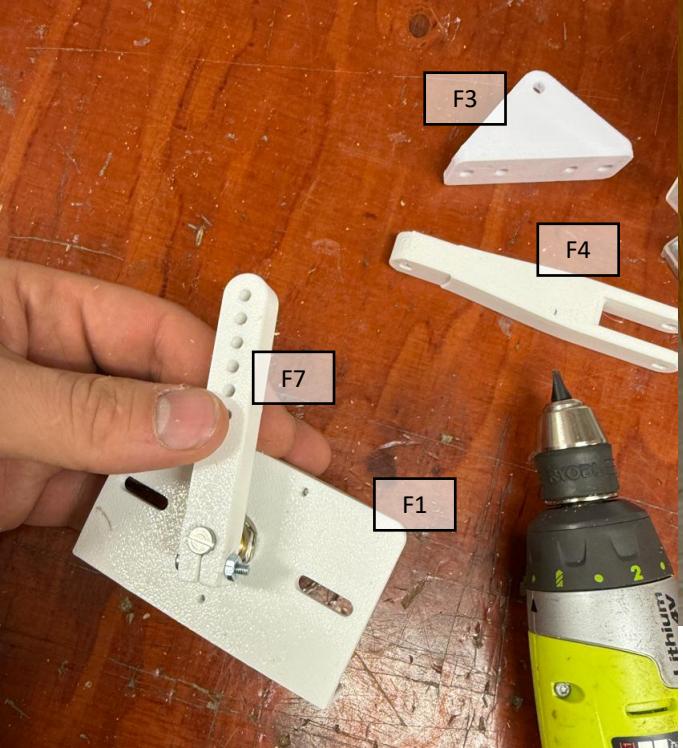
H7, 1x



Discontinued: H1, H2 and D4 is combined together into H1







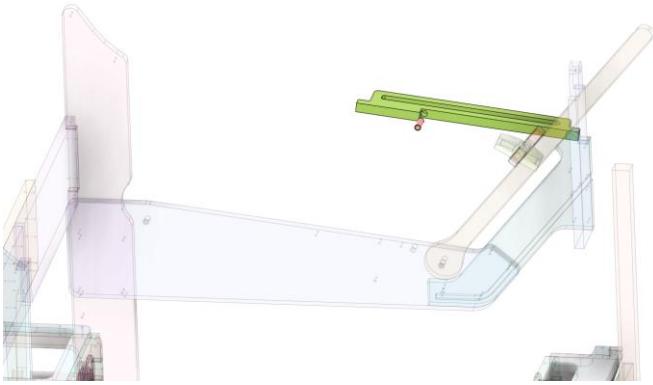
F8



To be continued ...

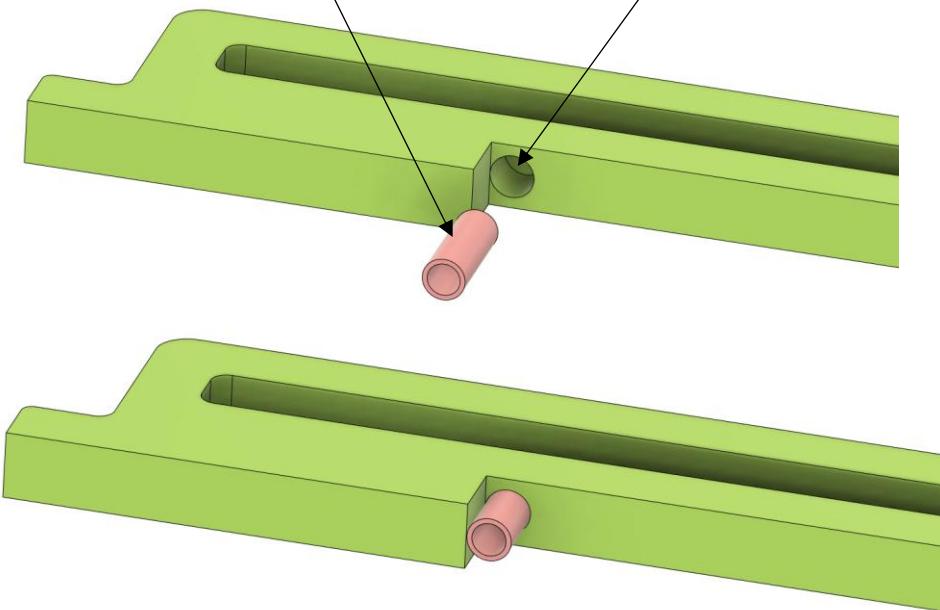
Left over slide from here on

Simulating wheel brake



8mm PVC tube

Drill a hole 8mm diameter



When deploying full airbrake, the PVC-tube will be compressed and simulating the wheel brake

