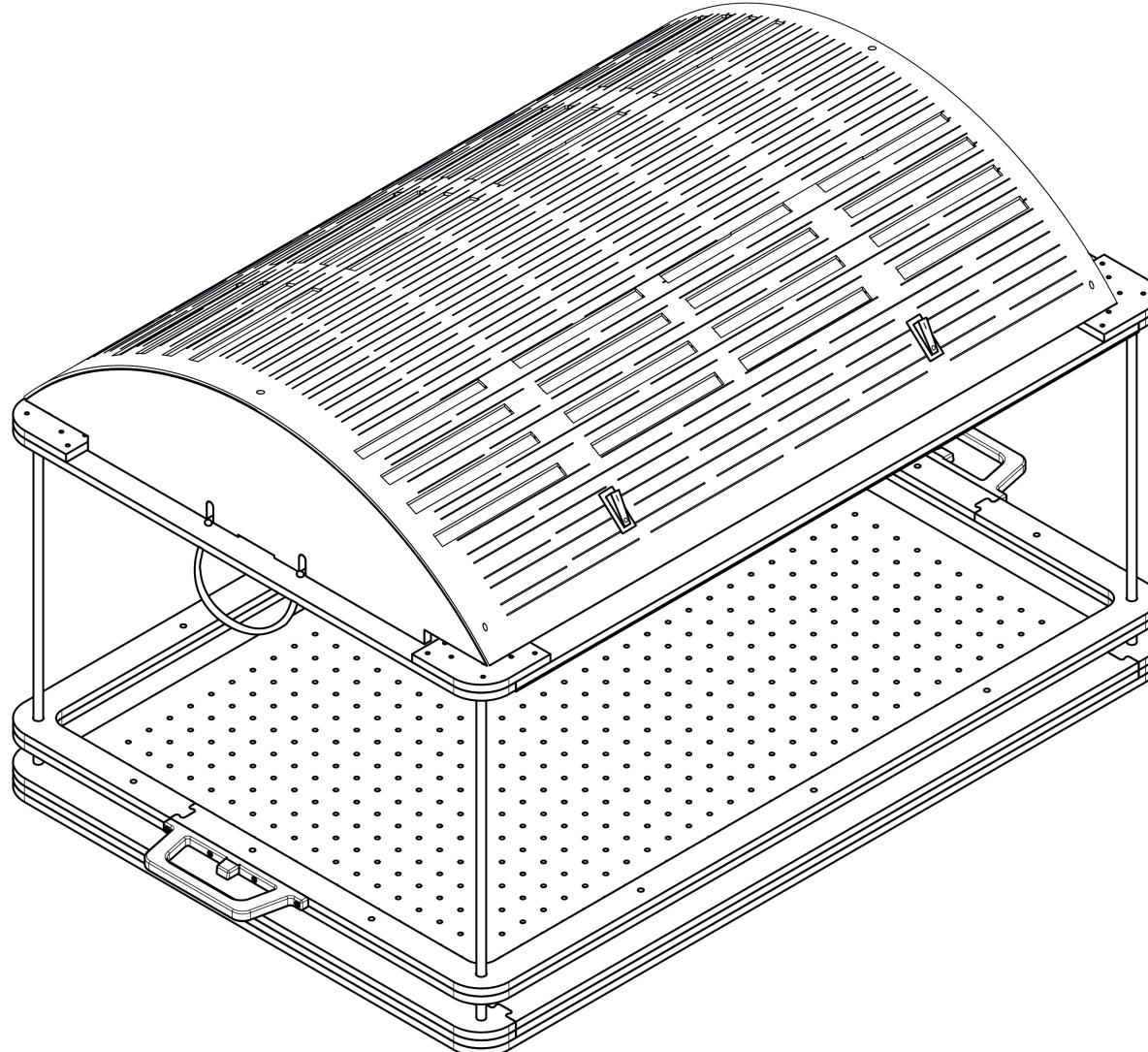


# VACUUM FORMER



Textile  
Lab  
Amsterdam

Research by Lucas PERRET

waag society

# Material list

- 1x 2440x1220mm piece of 9mm MDF
- 1x 1220x1220mm piece of 9mm MDF
- 1x 1000x850mm piece of 3mm plywood
- 2x 900x900mm sheet of 3mm alluminium
  - 4x Ø 10mm alluminum bars
  - 2x Heating resistance
- 2x 3pins illuminated On/Off switch
- 1.5mm<sup>2</sup> gage electrical wires
  - Electrical flat terminals
  - PLA 3D printer fillament
  - Wood screws
  - Nuts and bolts
  - 1m of rope
- 1m of 22mm Ø PVC tubing

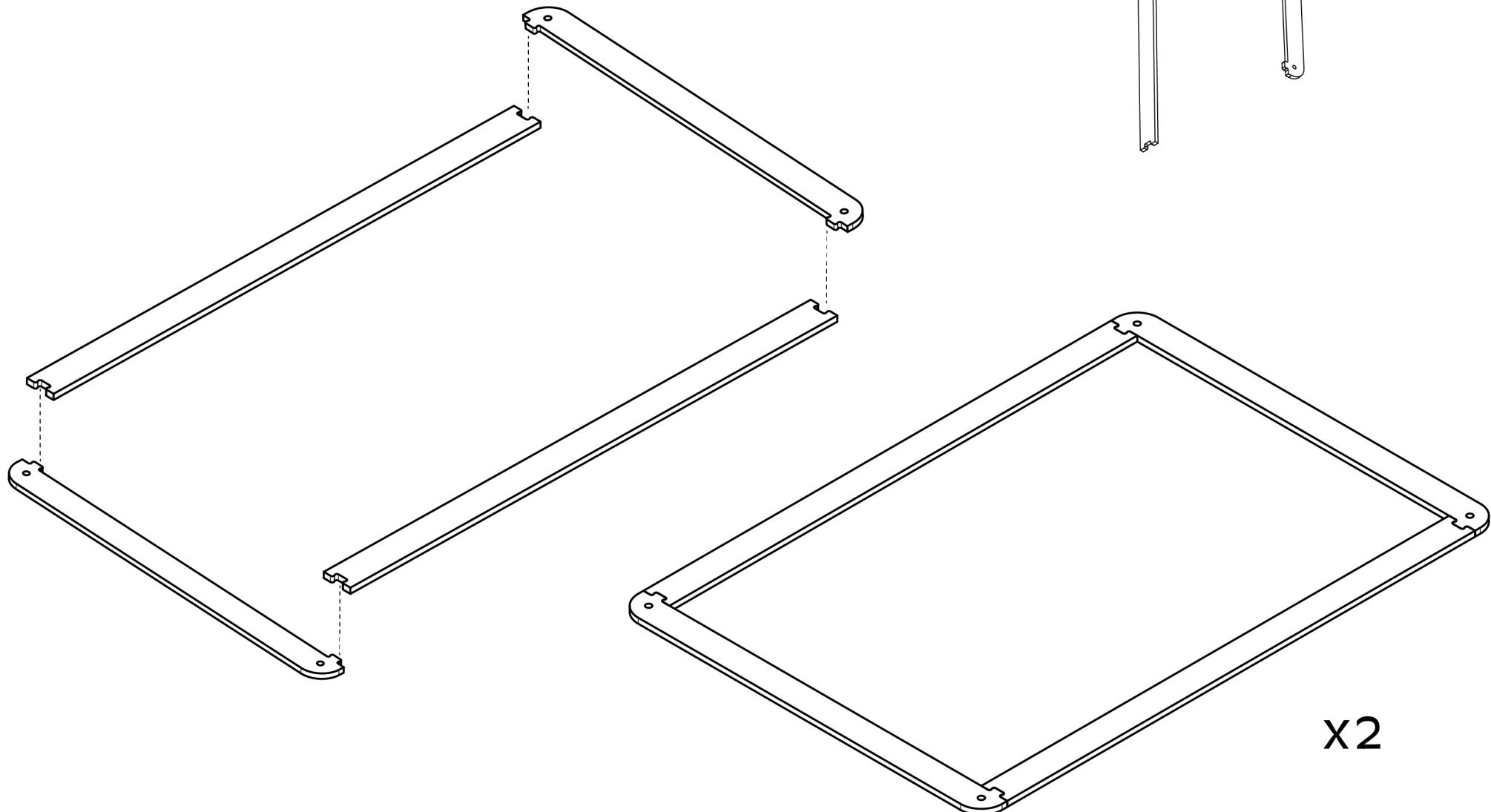
# Machine list

- A 2440x1220mm CNC Milling machine
- A 1000x850mm Laser cutter
- A 3D printer
- A drill
- A 18mm drill bit
- And some normal tools  
(sanding paper, saw, screwdriver, pliers)

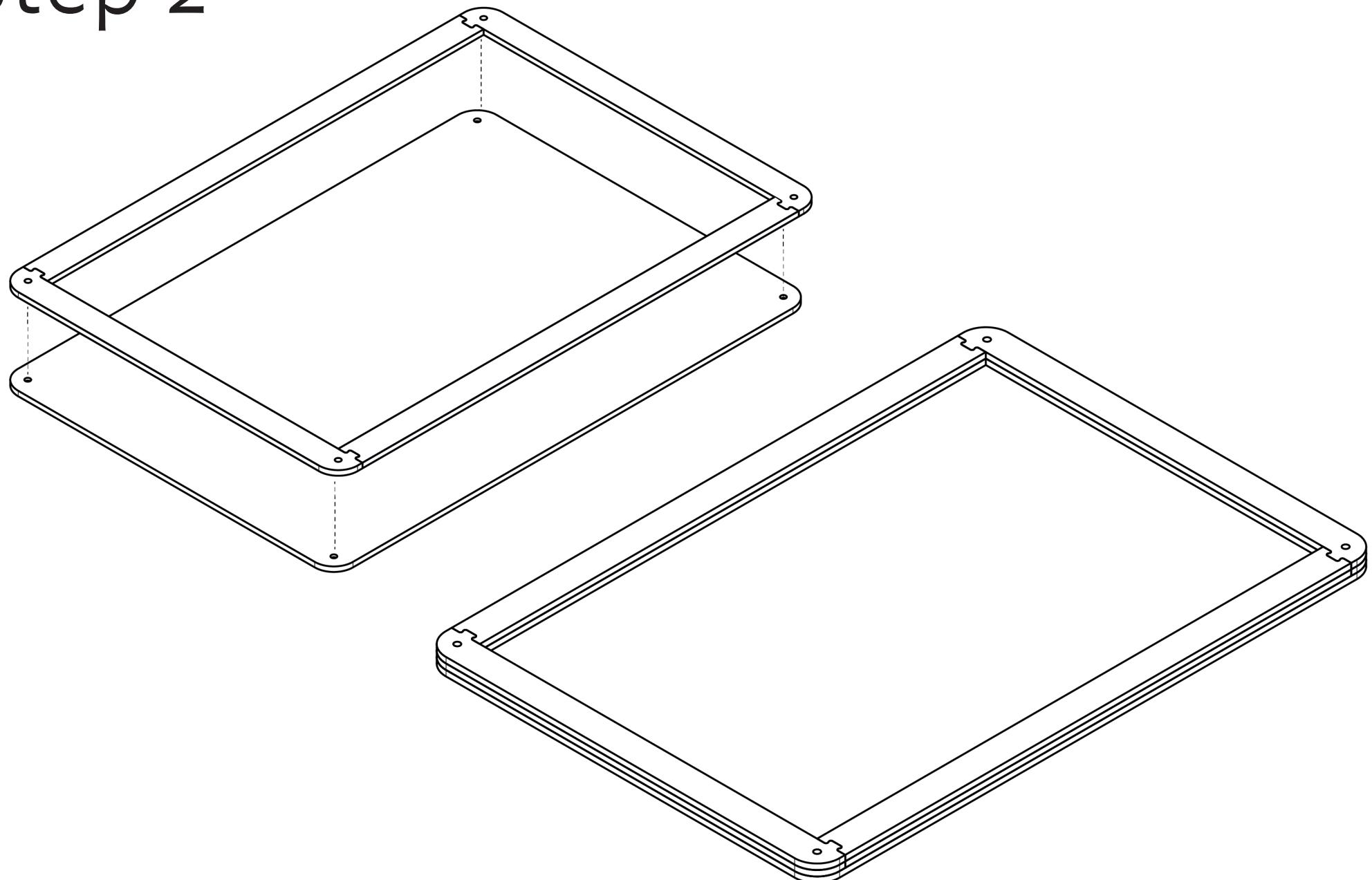
Disclaimer : This machine can be dangerous.  
Build it and use it at your own risks.  
If you're not sure about something ask someone  
who can help you.

**BE SAFE and ENJOY !**

# Step 1

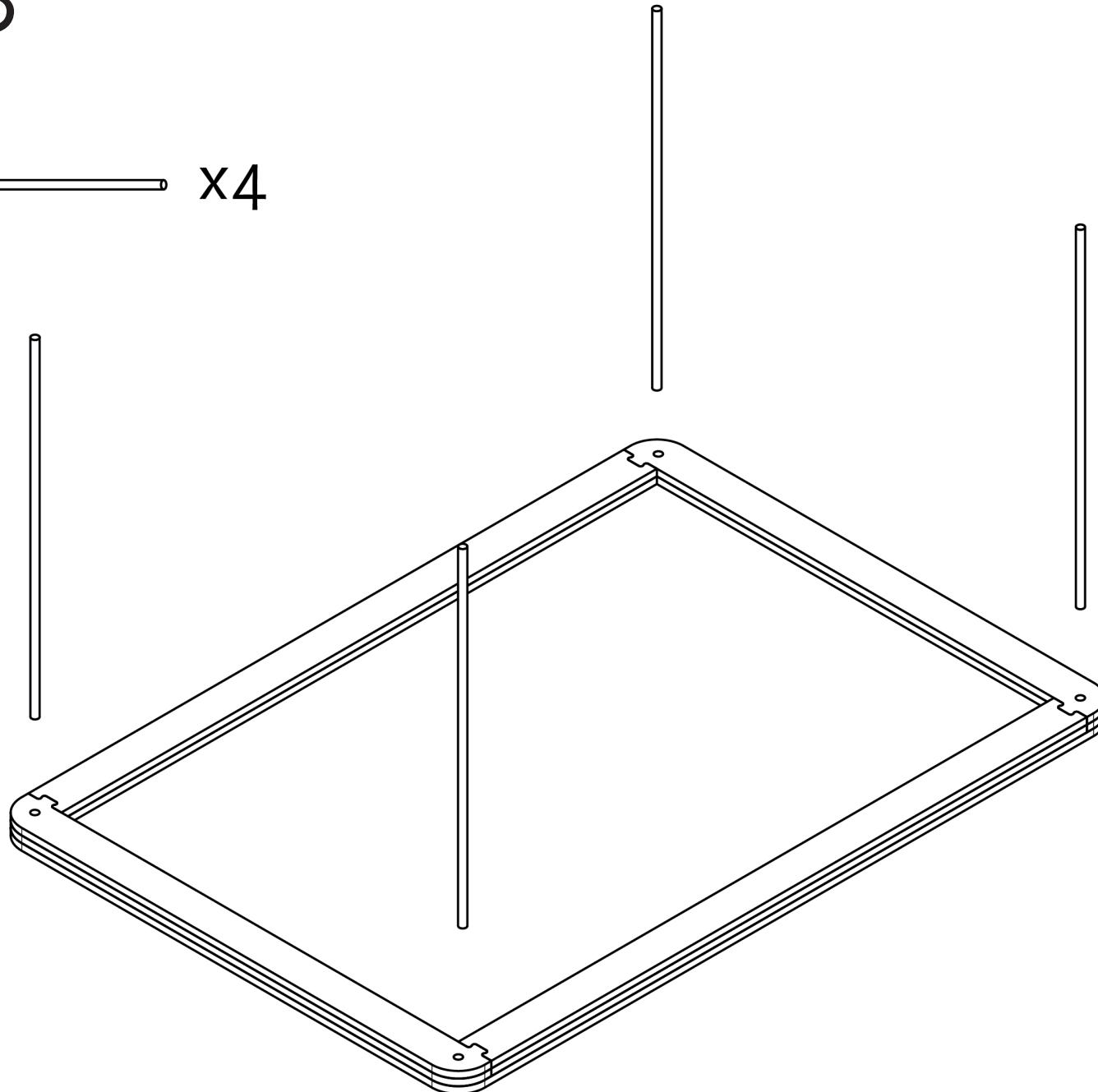


# Step 2

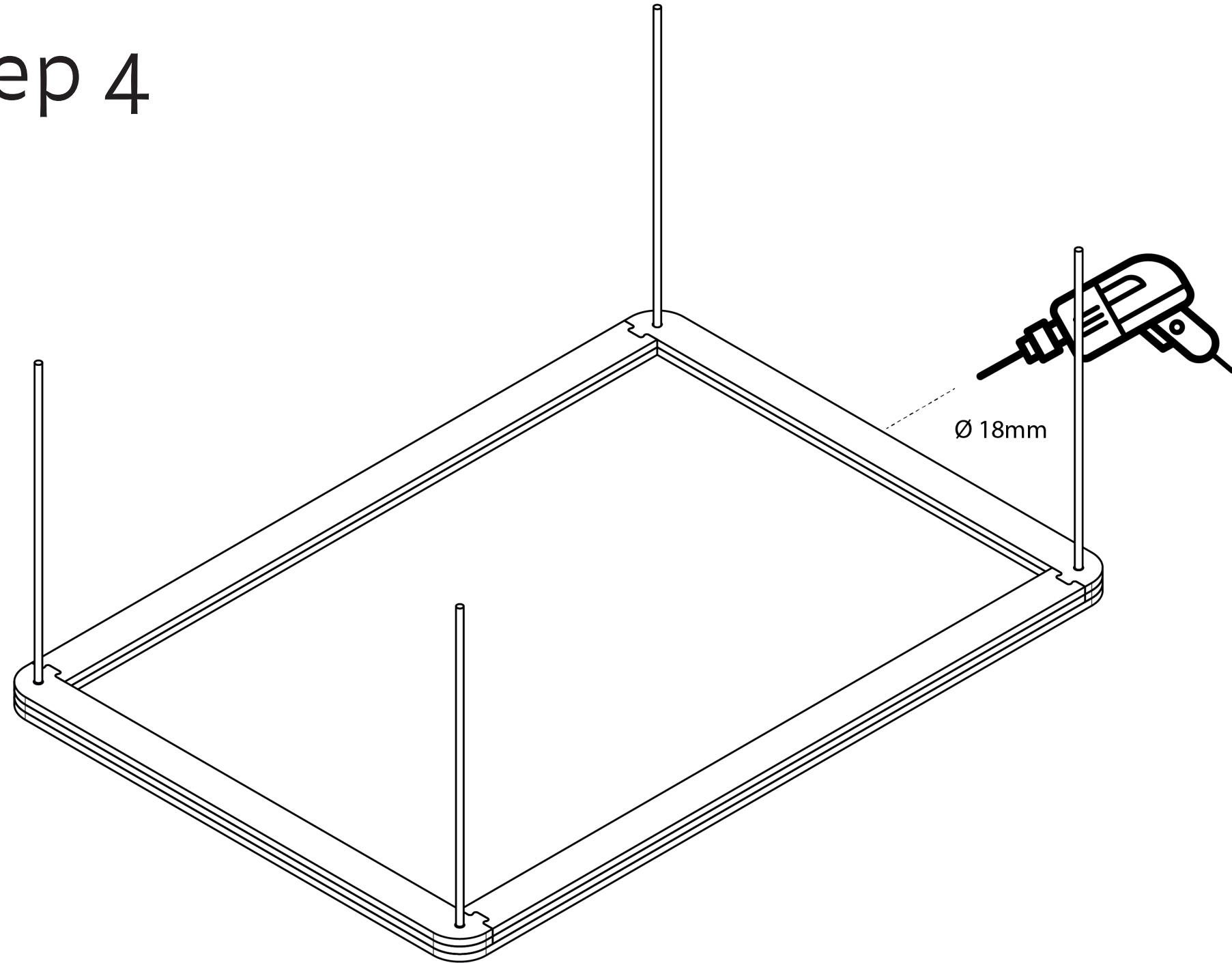


# Step 3

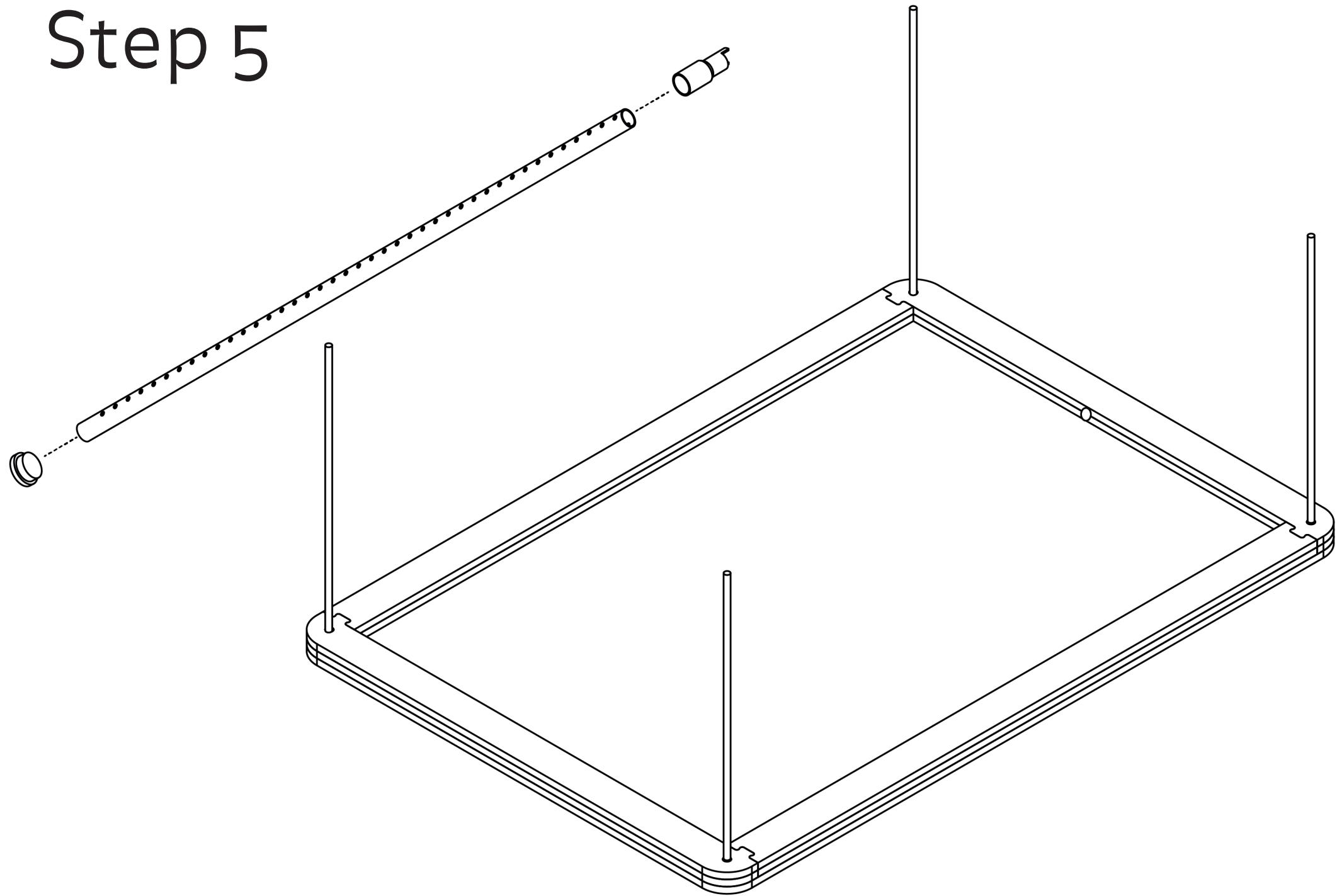
 x4



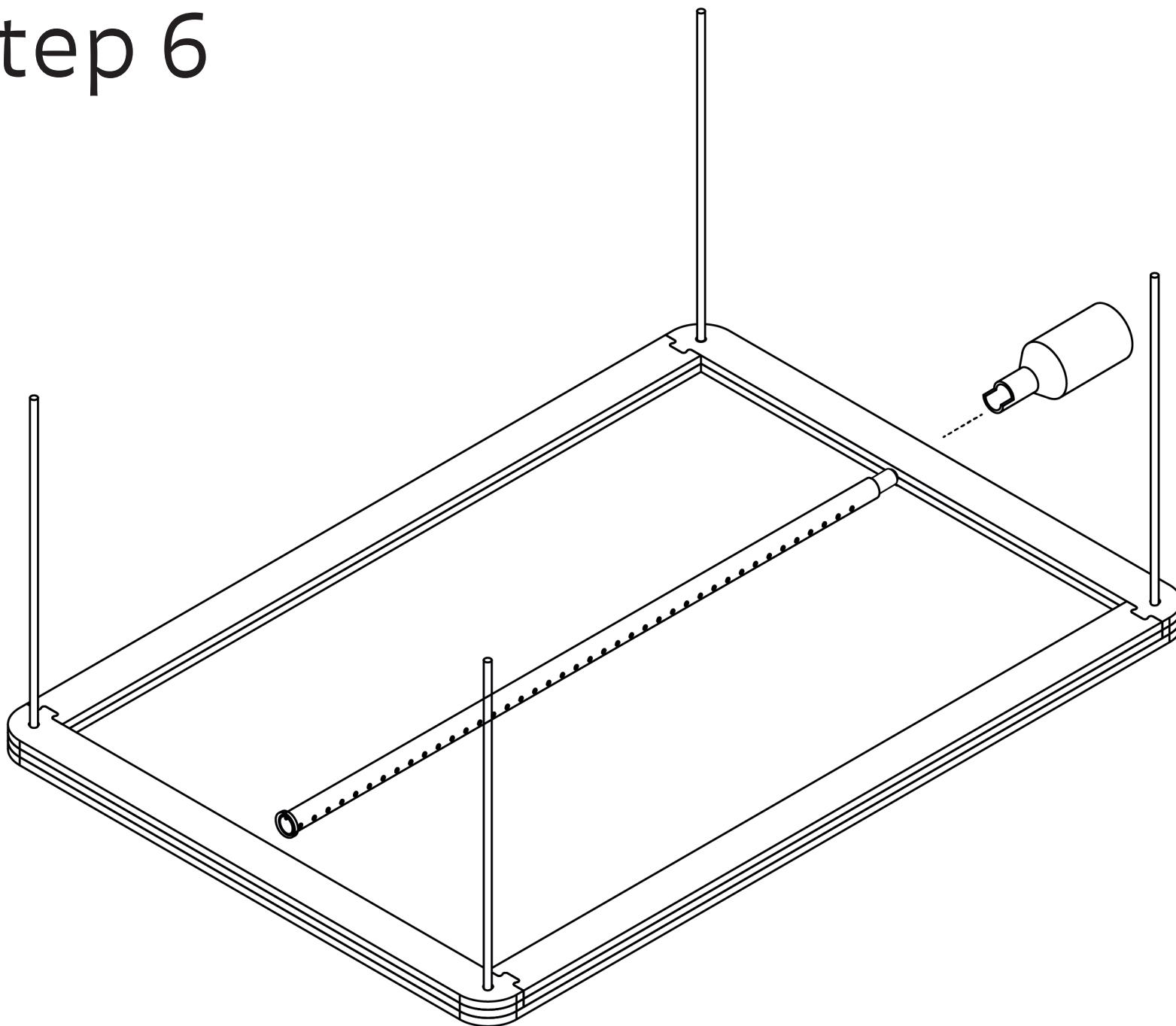
# Step 4



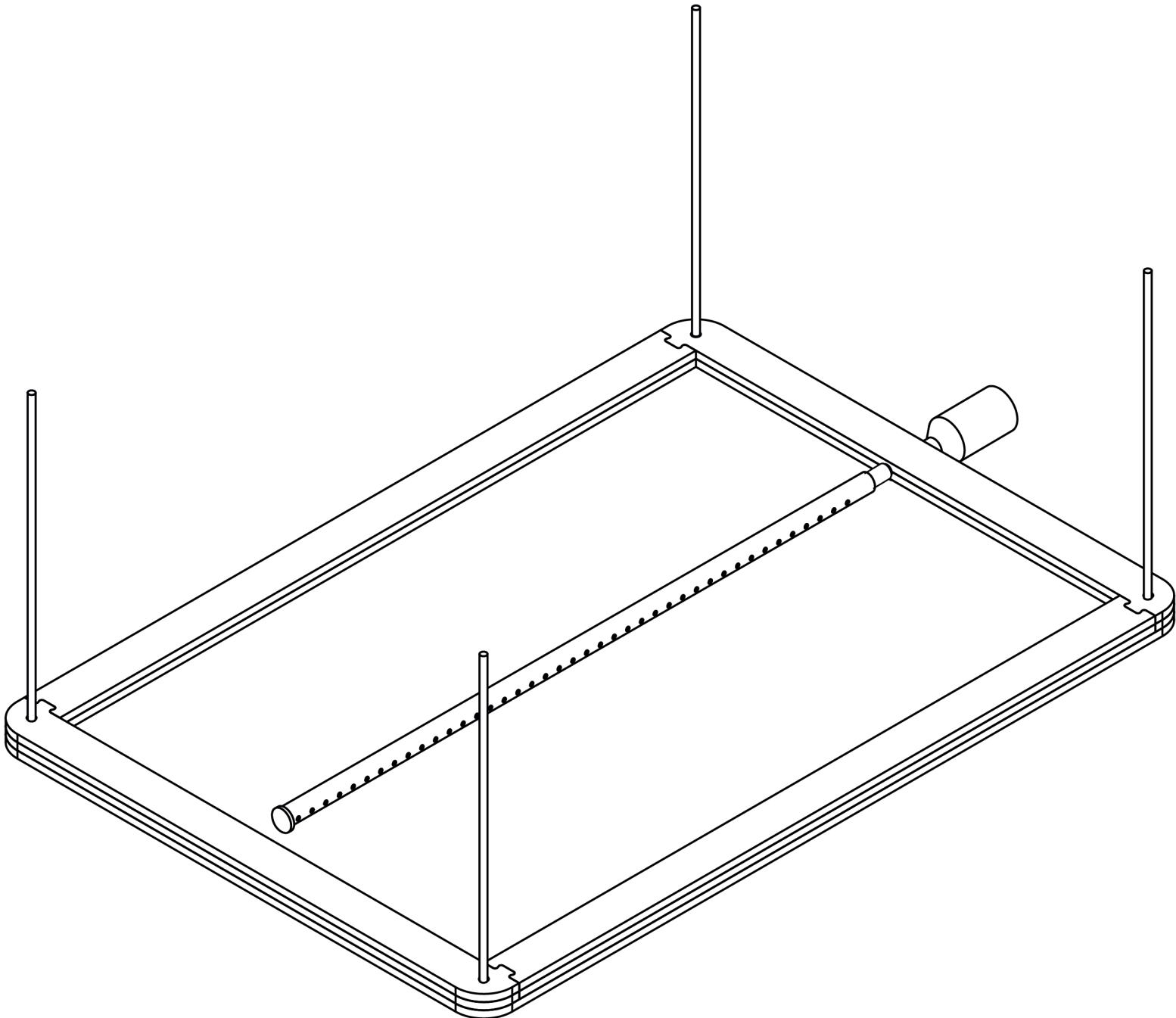
# Step 5



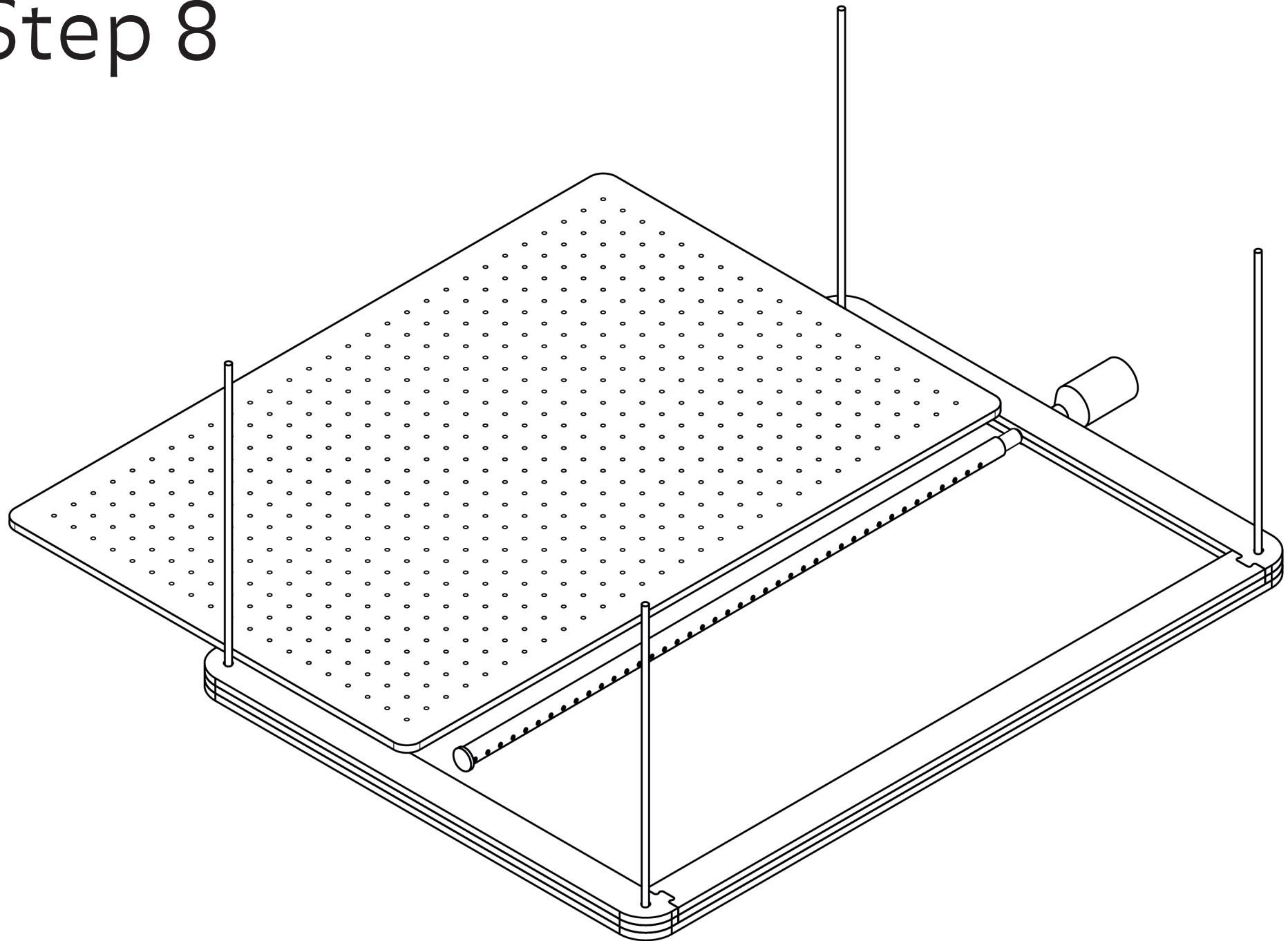
# Step 6



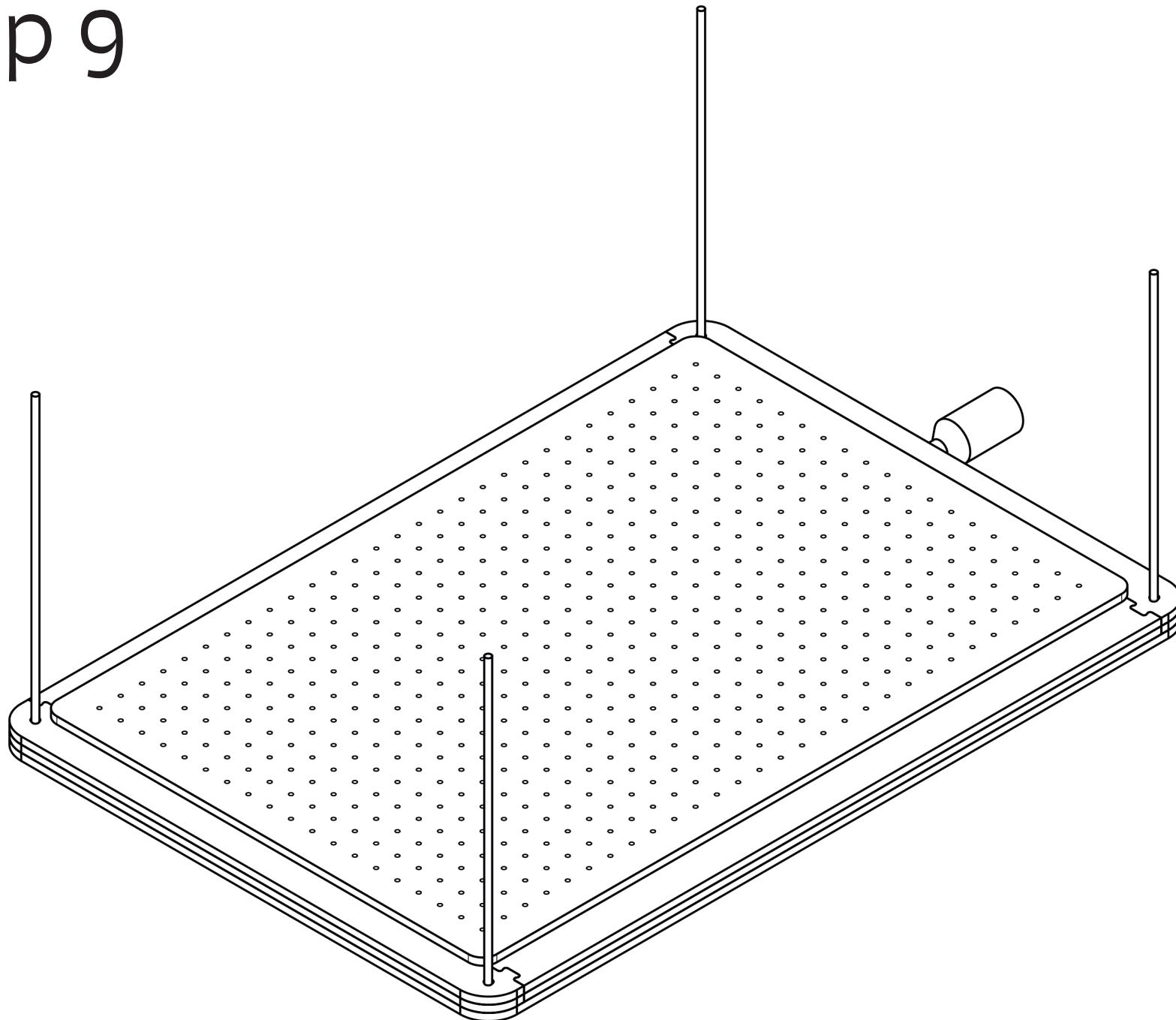
# Step 7



# Step 8

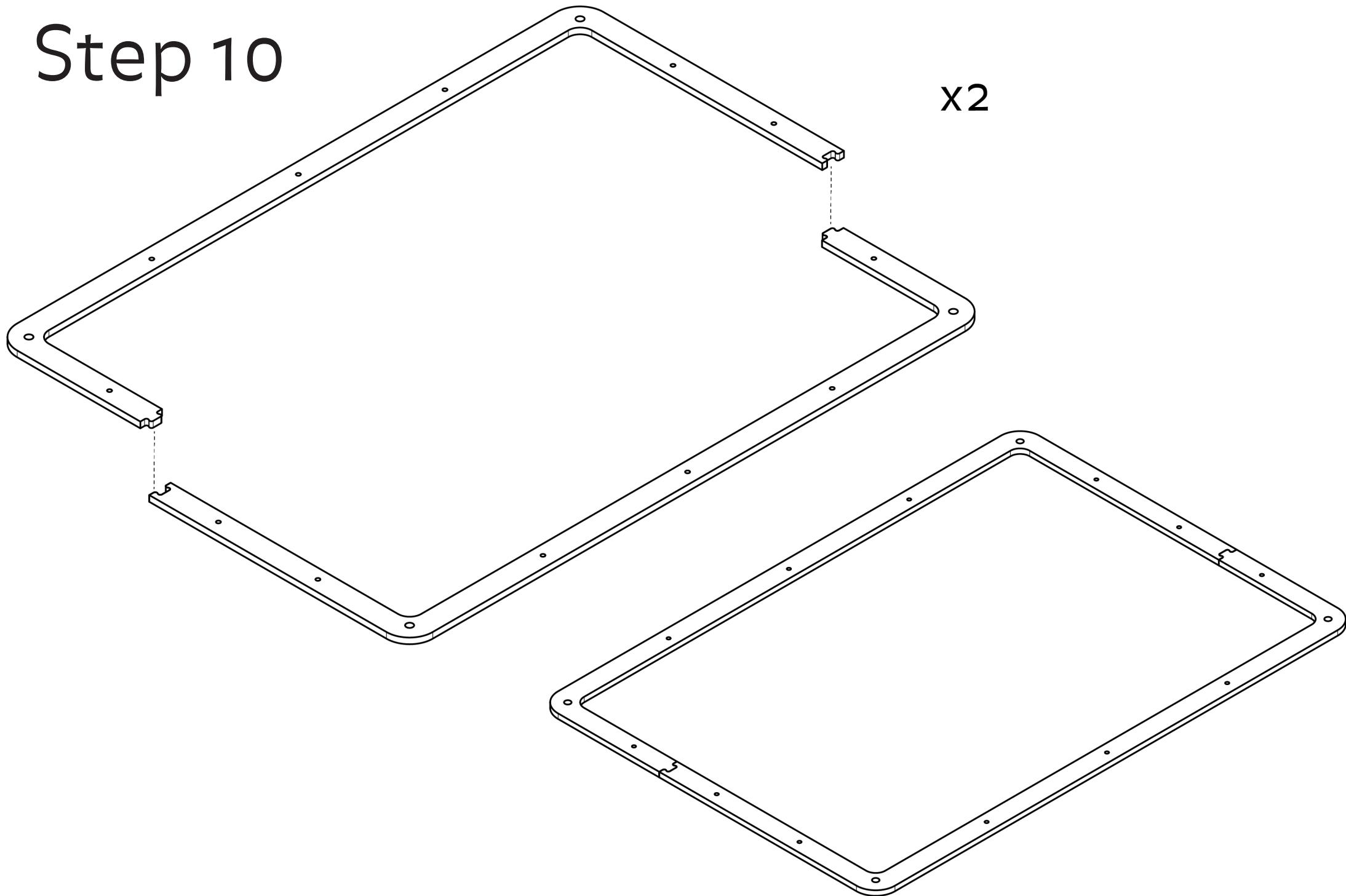


# Step 9

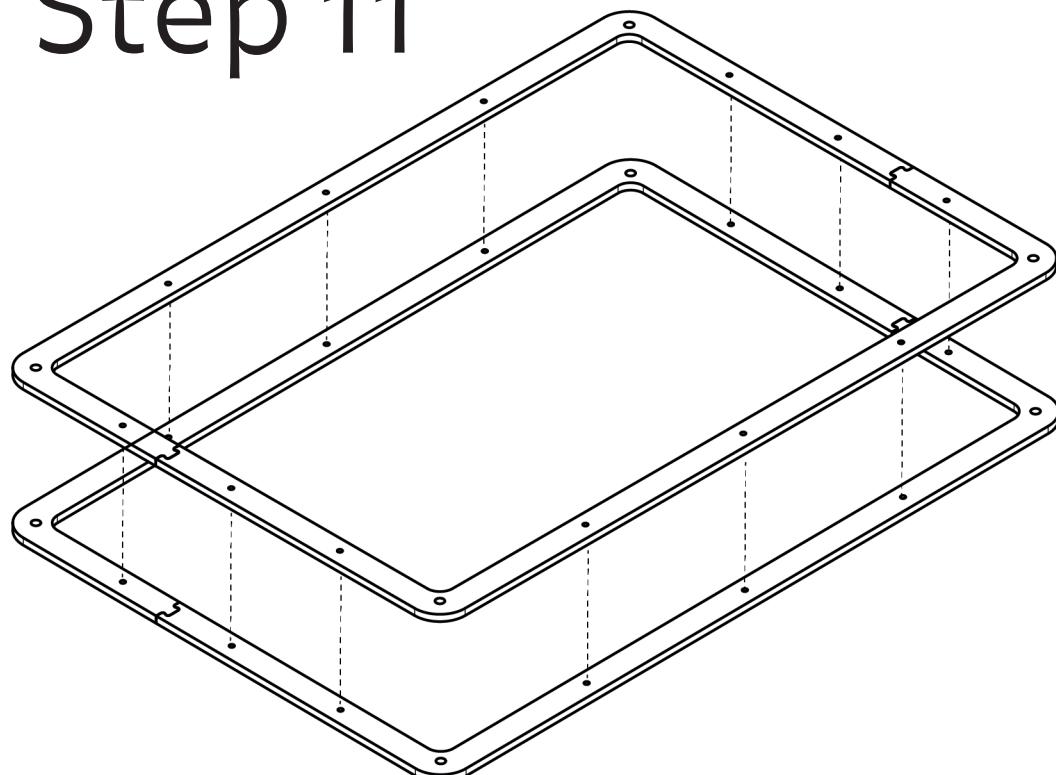


# Step 10

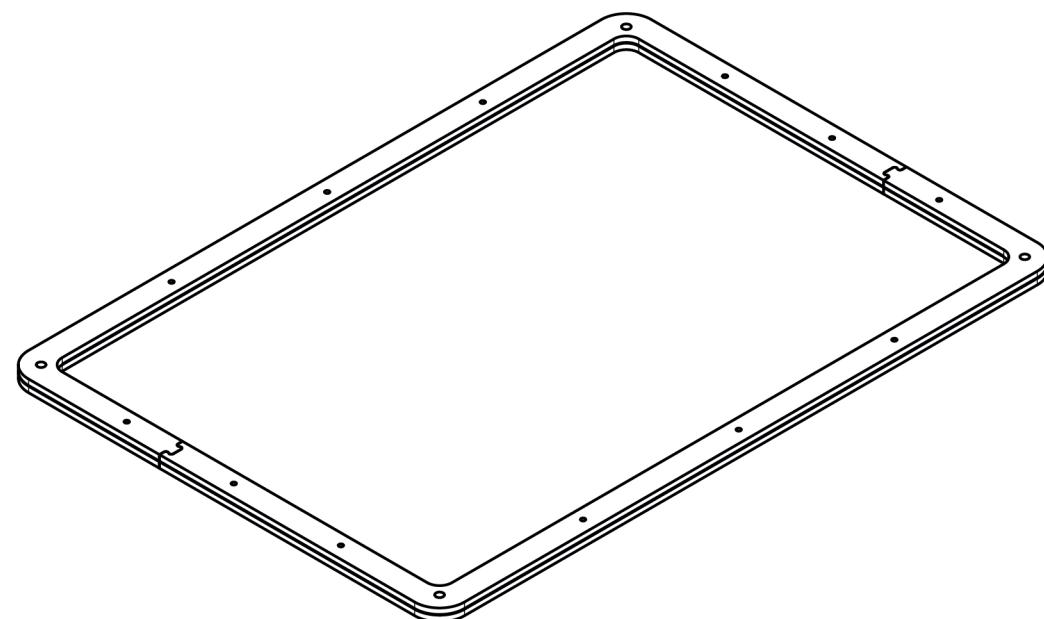
x2



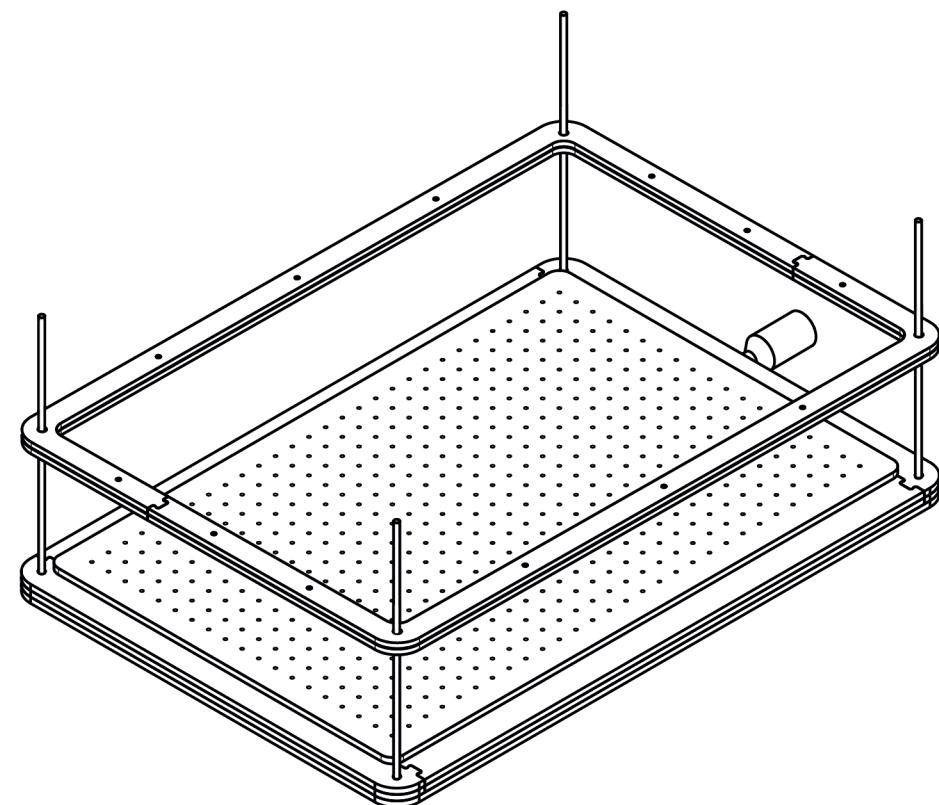
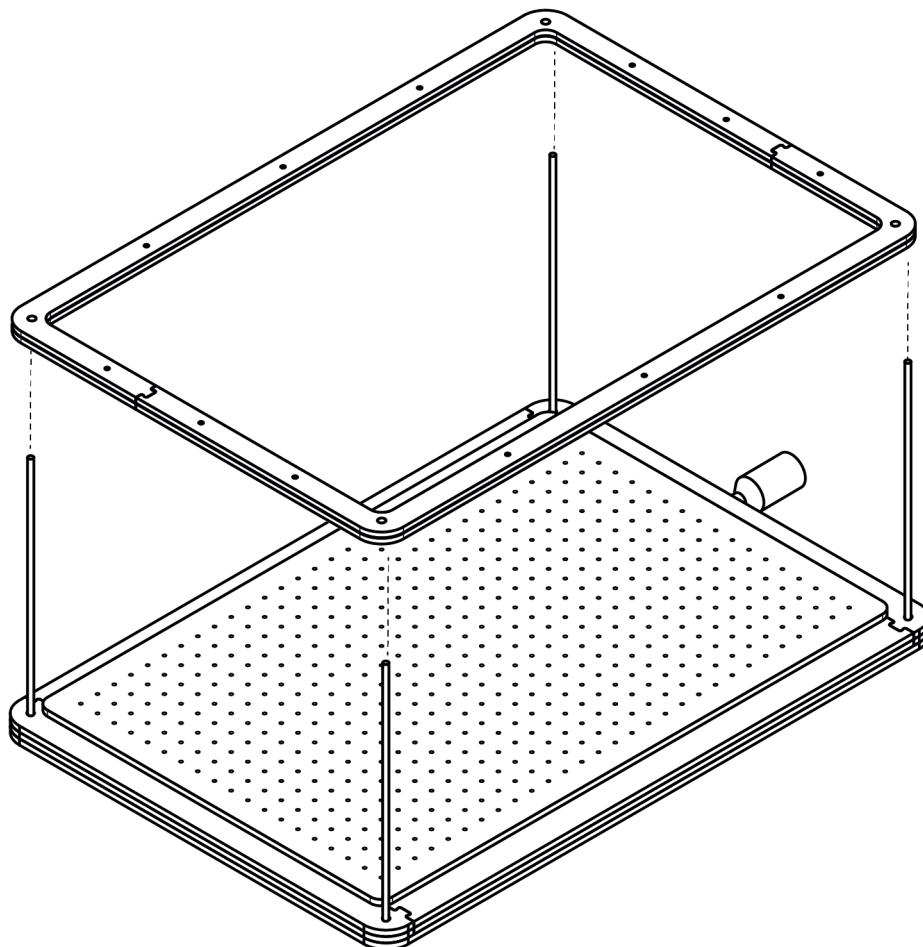
# Step 11



x12

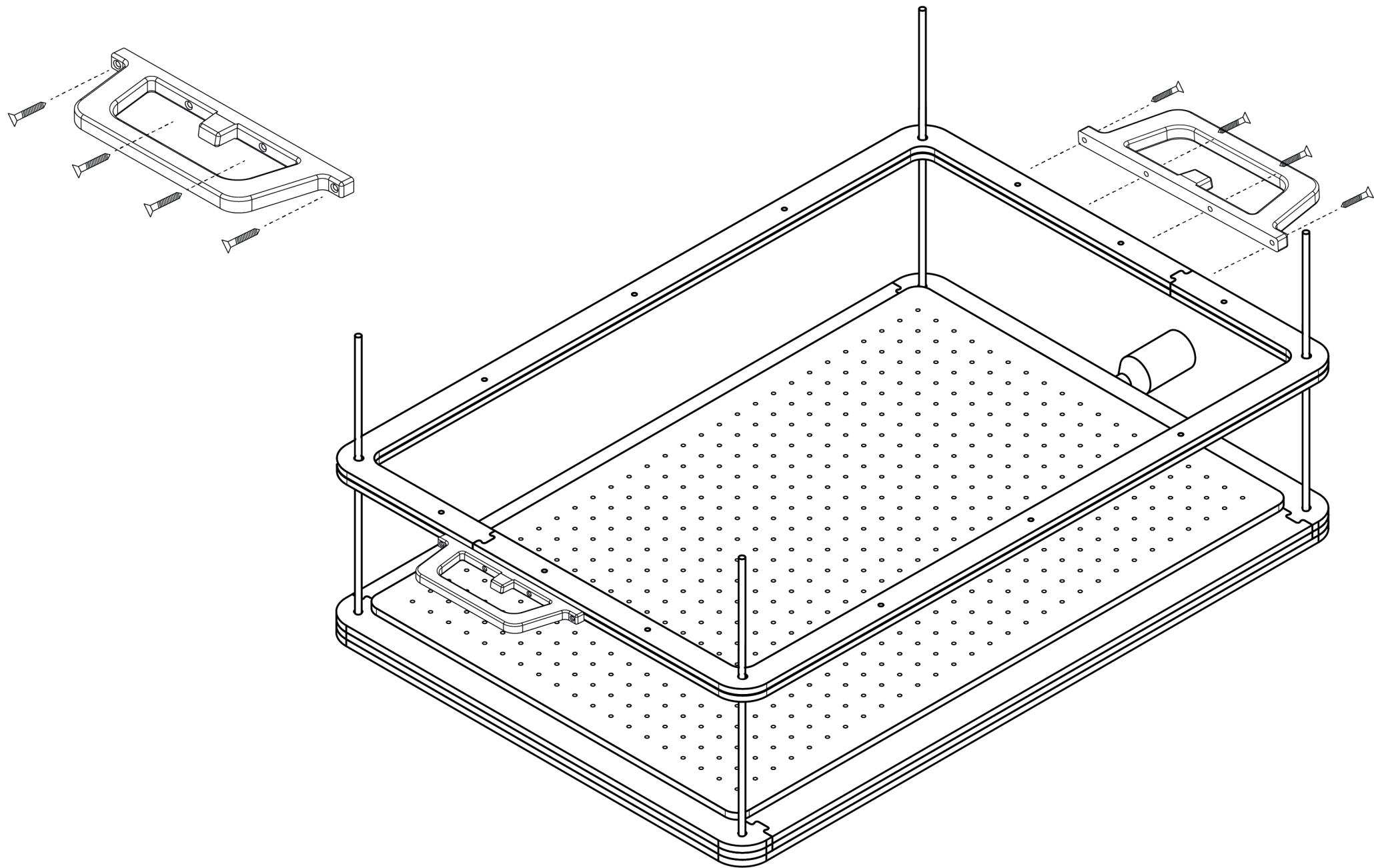


# Step 12

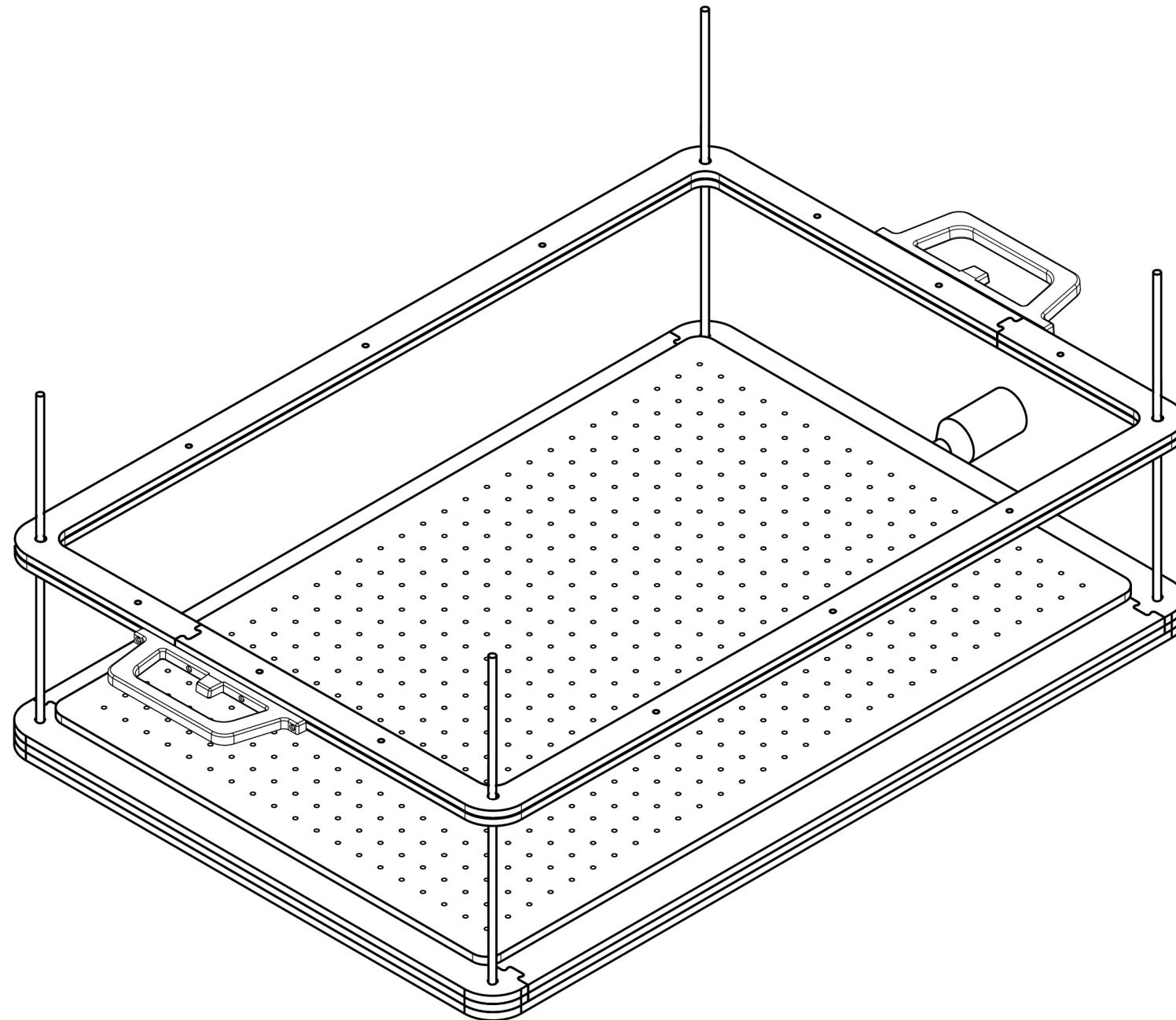


# Step 13

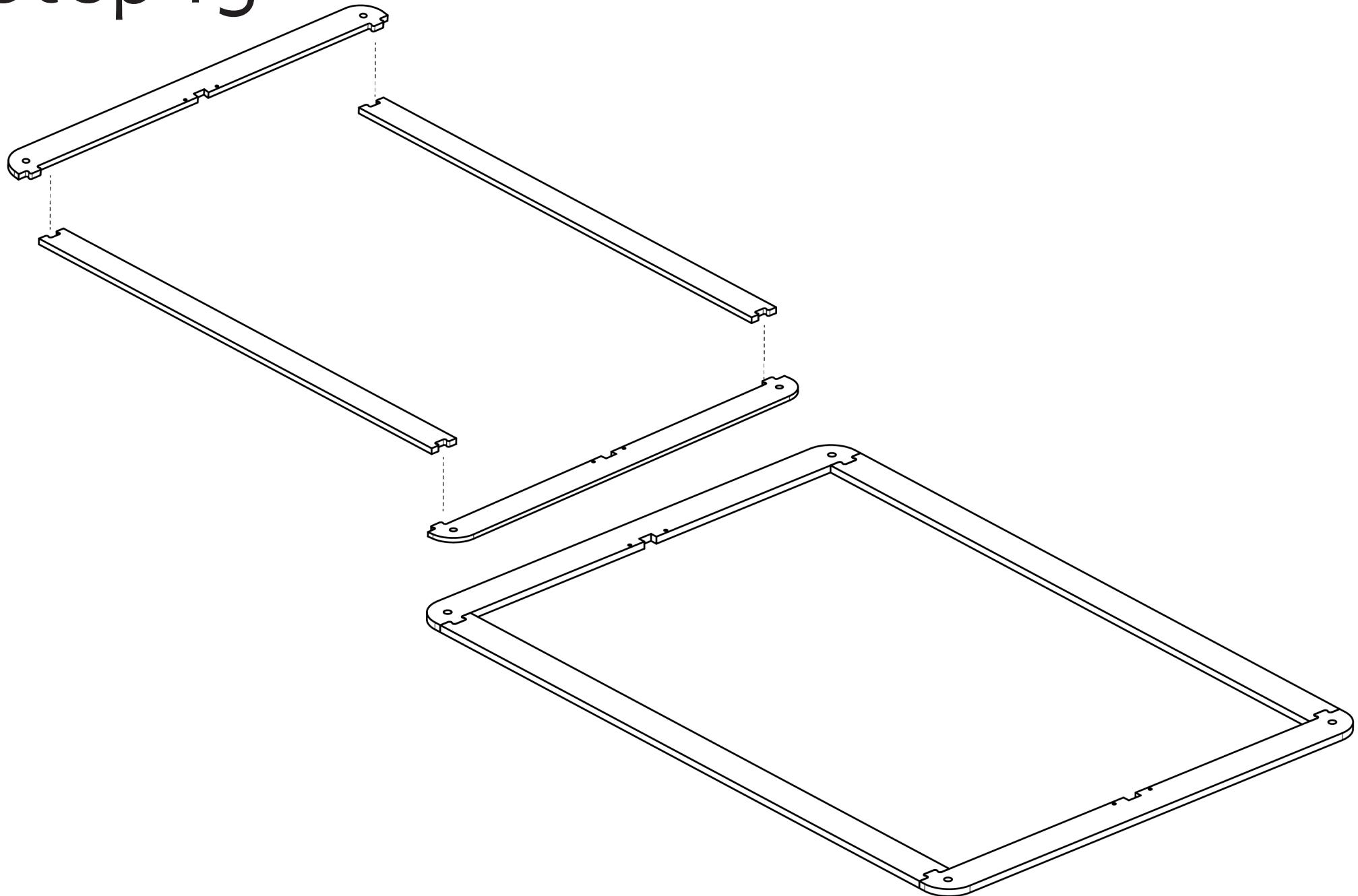
4x(x2)



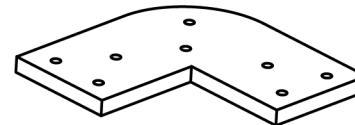
# Step 14



# Step 15



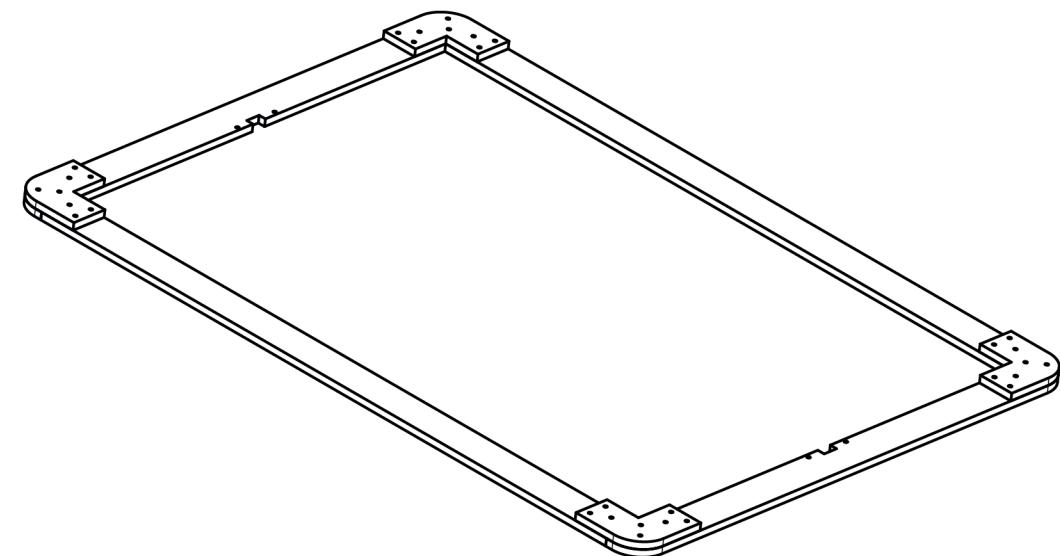
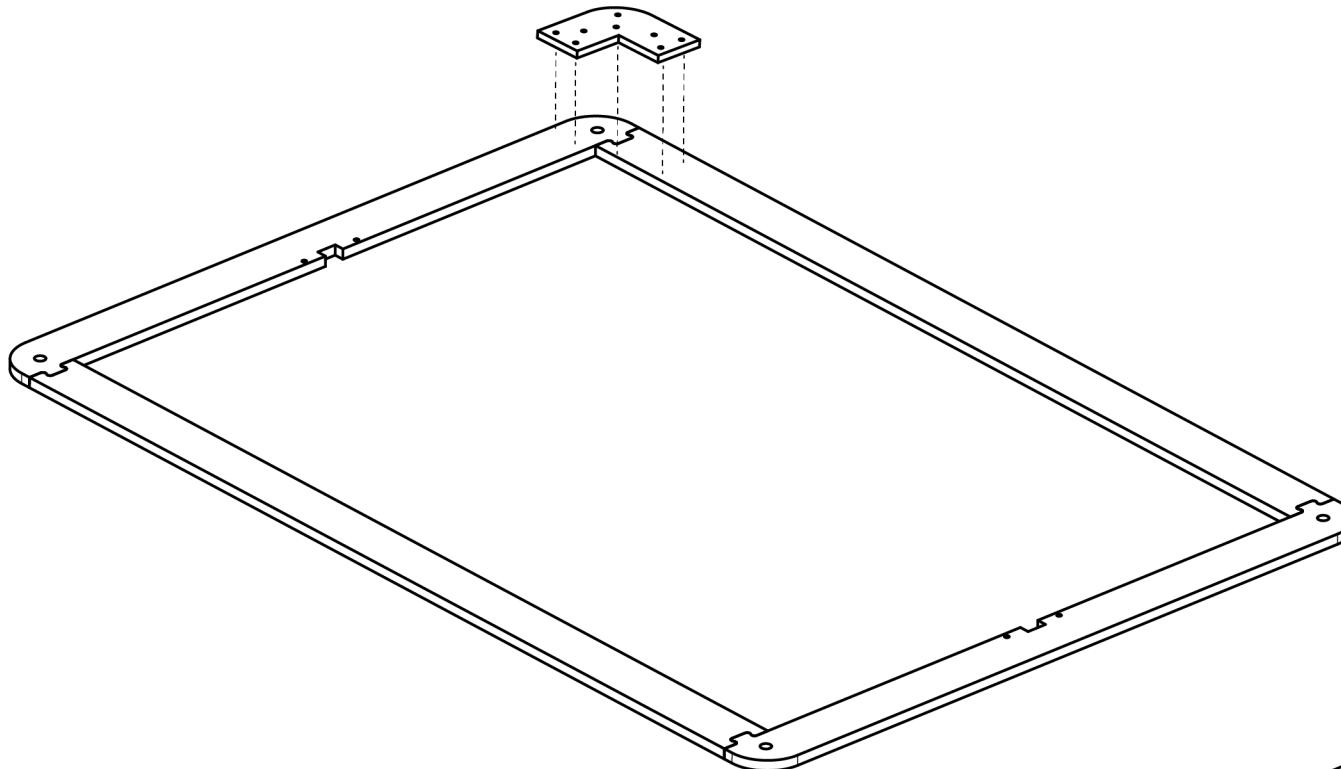
# Step 16



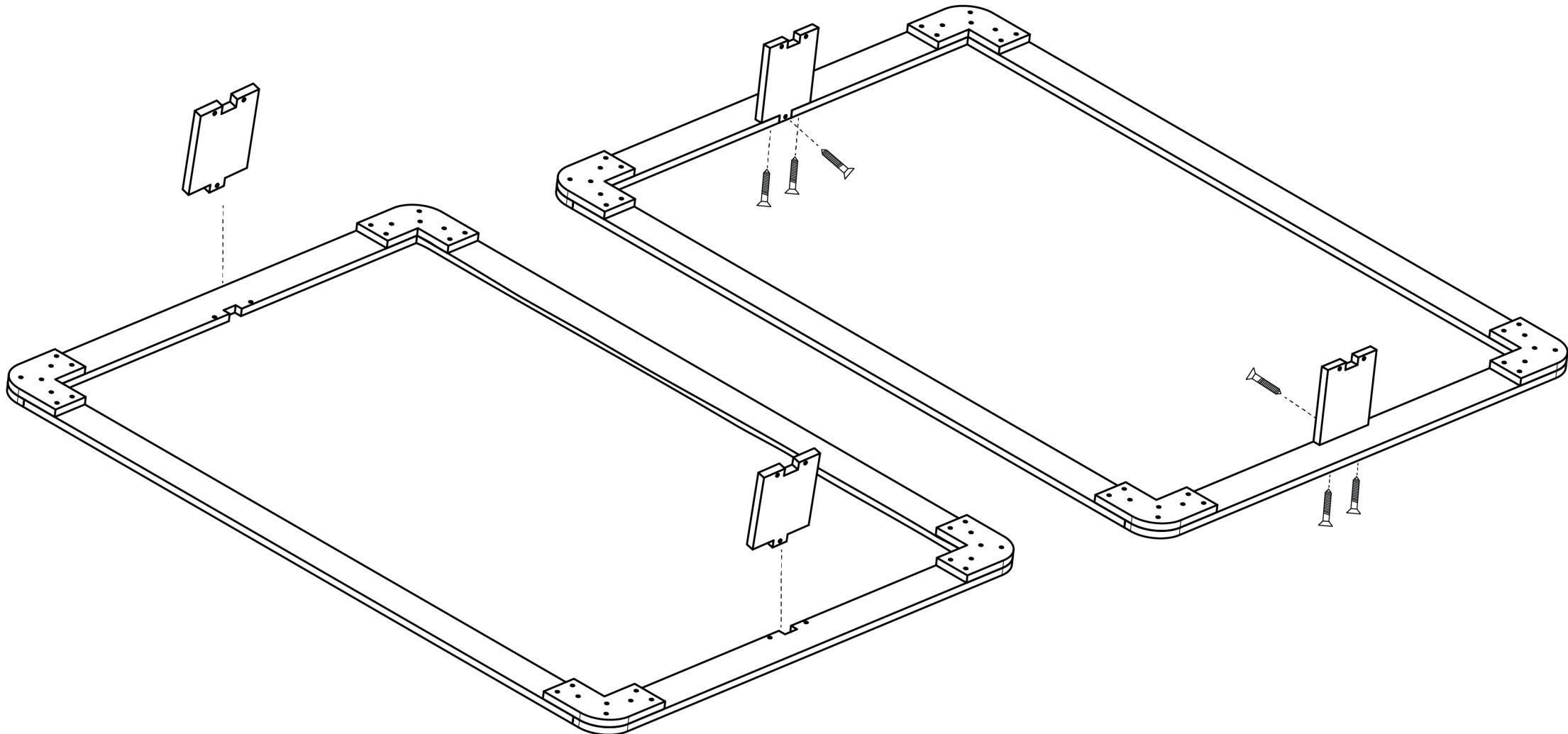
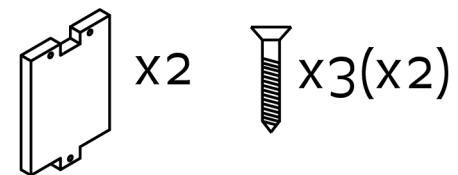
x4



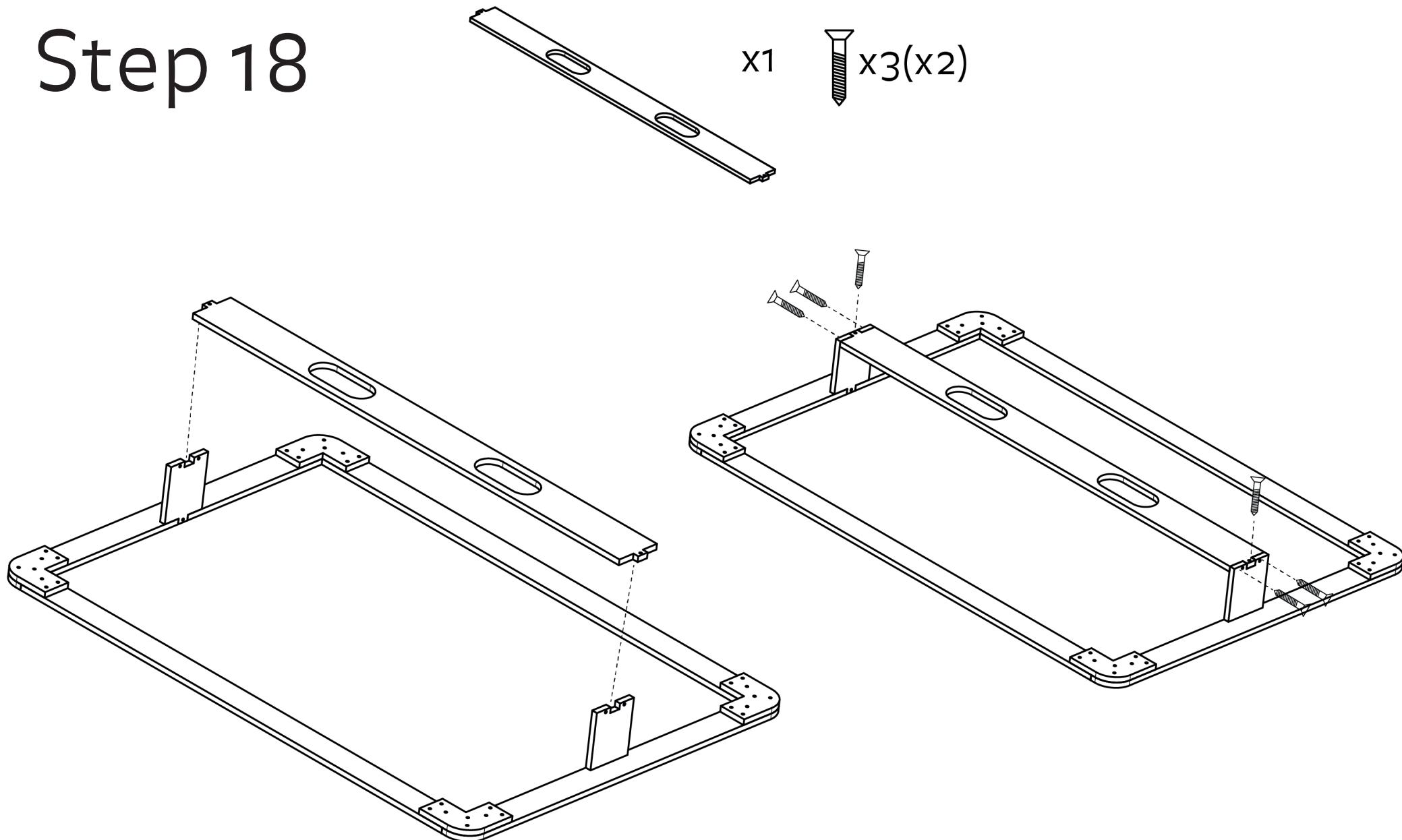
x8(x4)



# Step 17

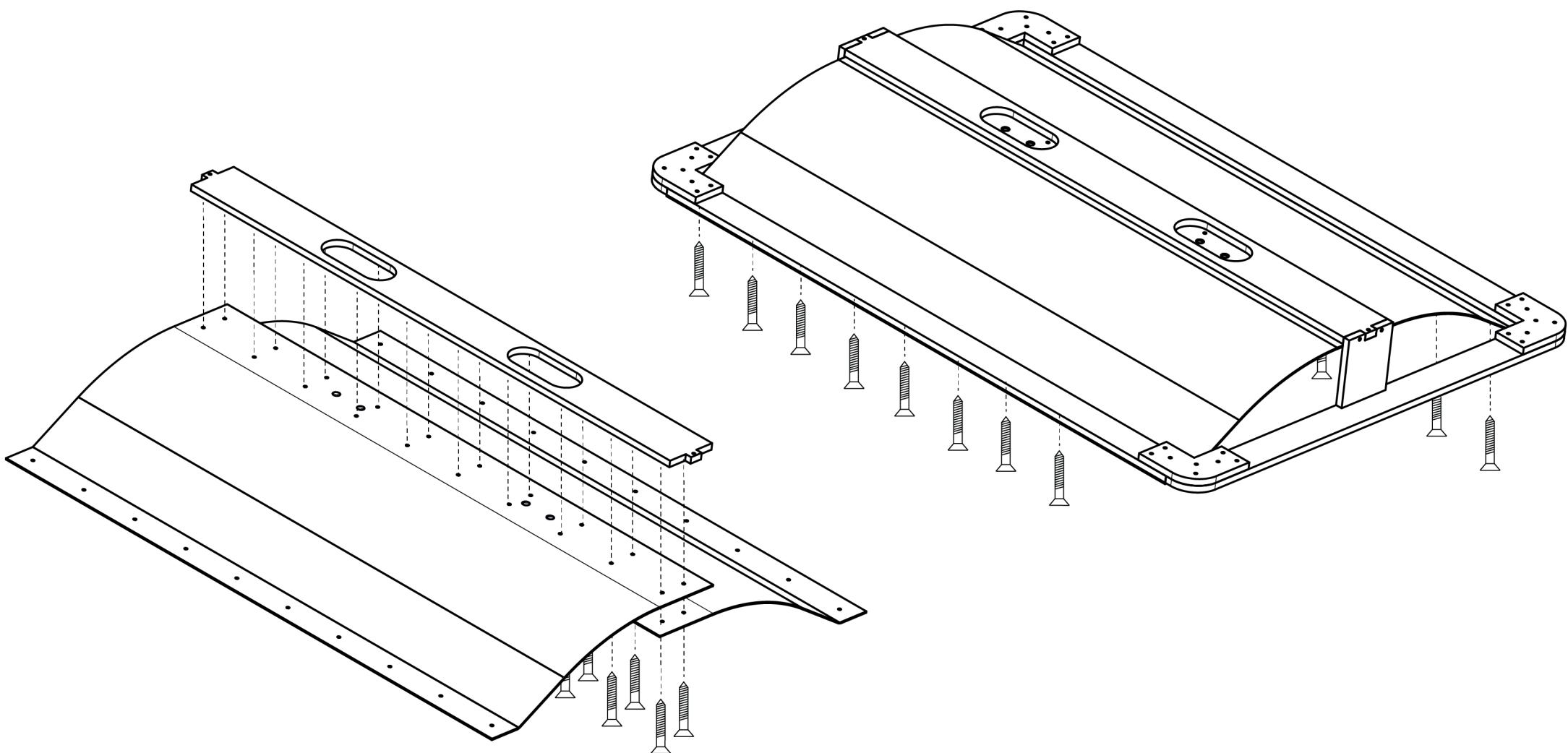


# Step 18

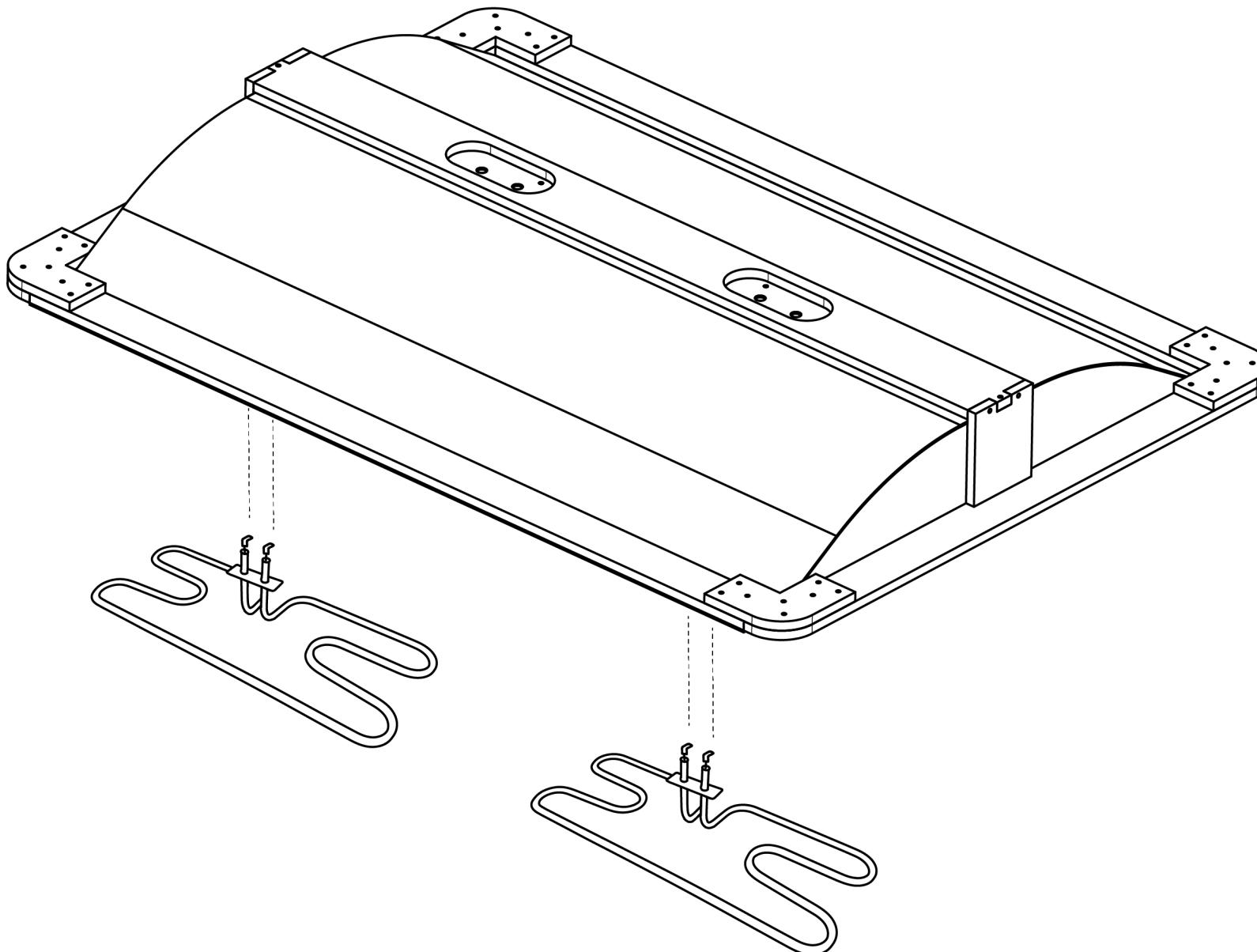
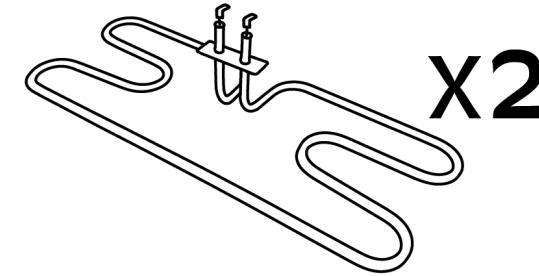


# Step 19

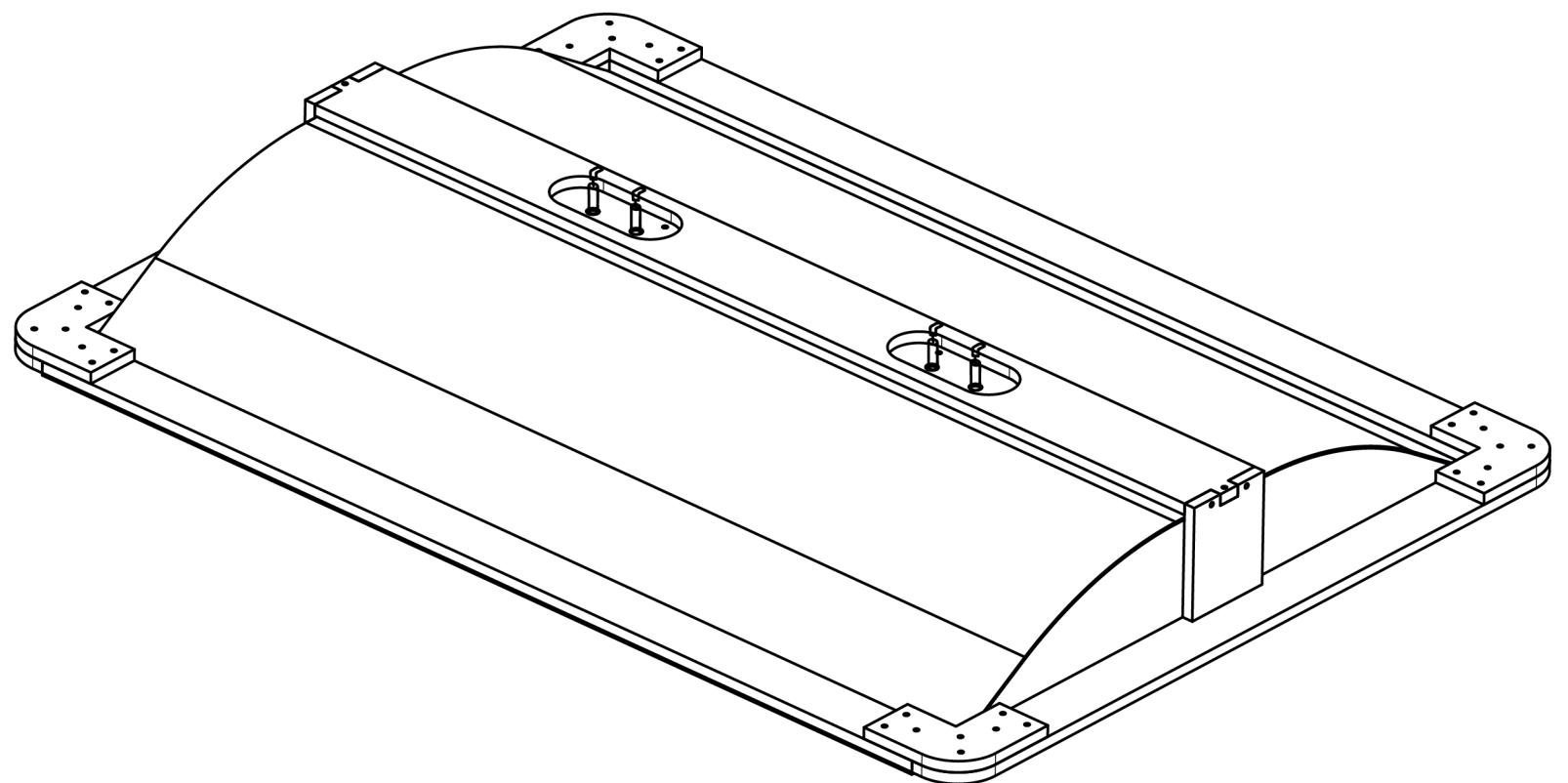
x2  x40



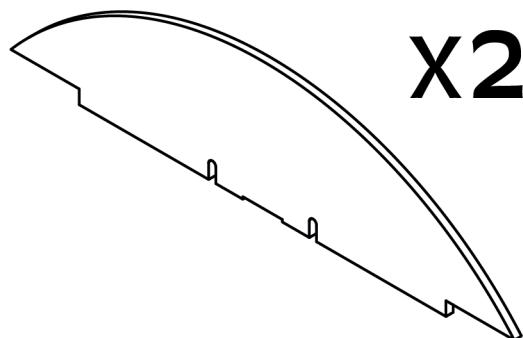
# Step 20



# Step(21)

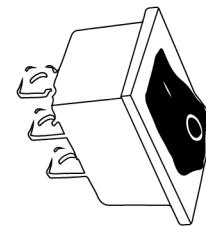


# Step 22

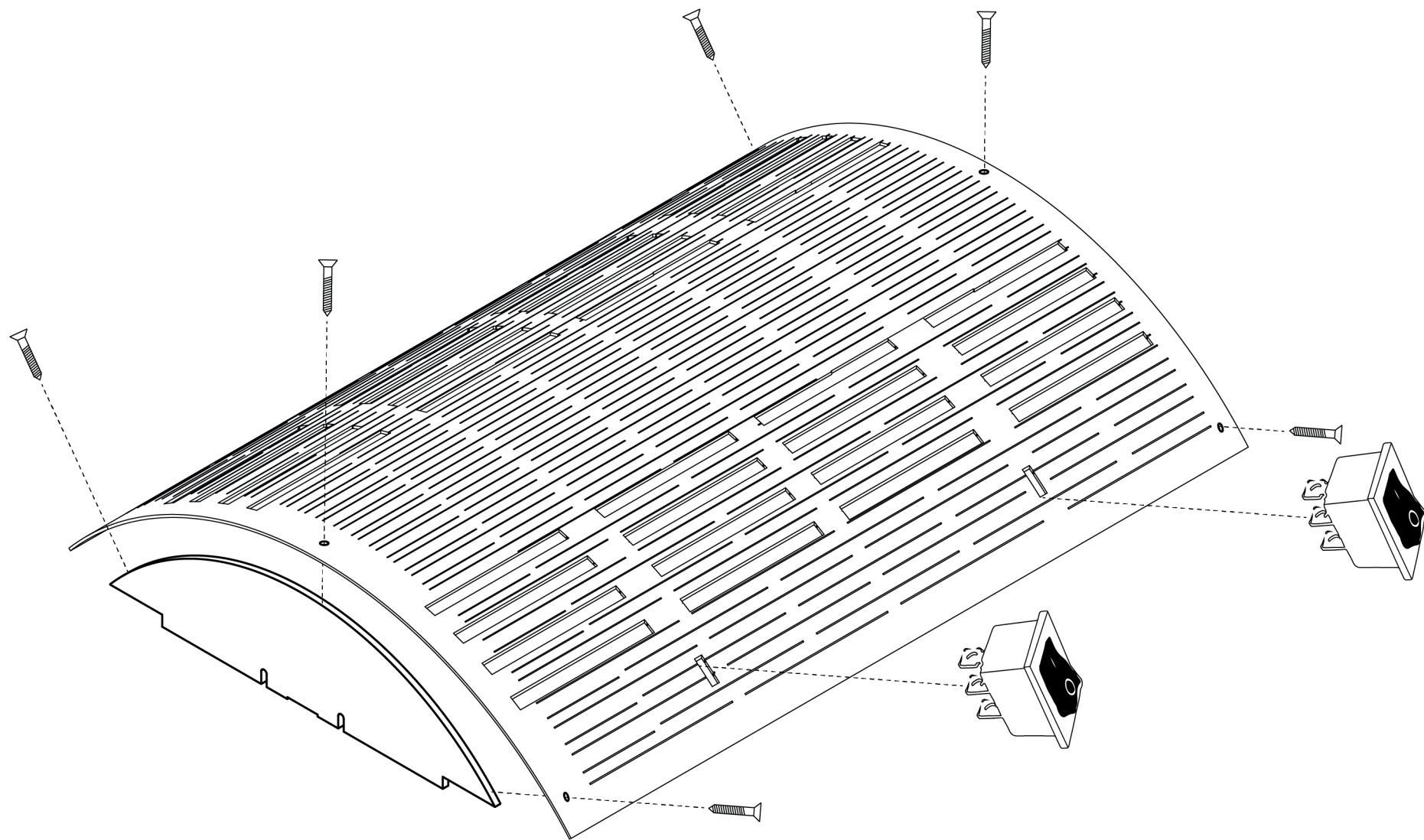


x2

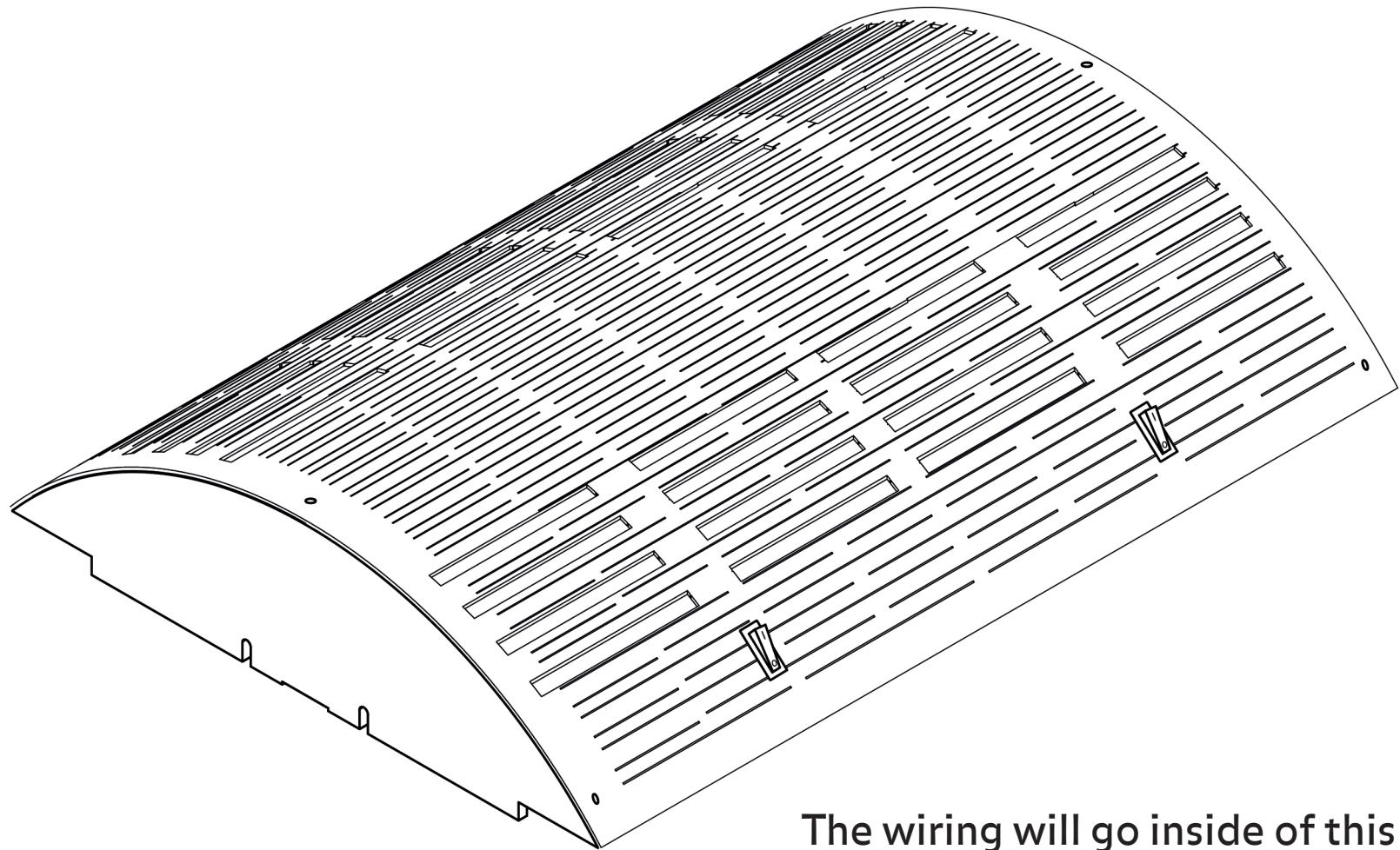
1 x6



x2

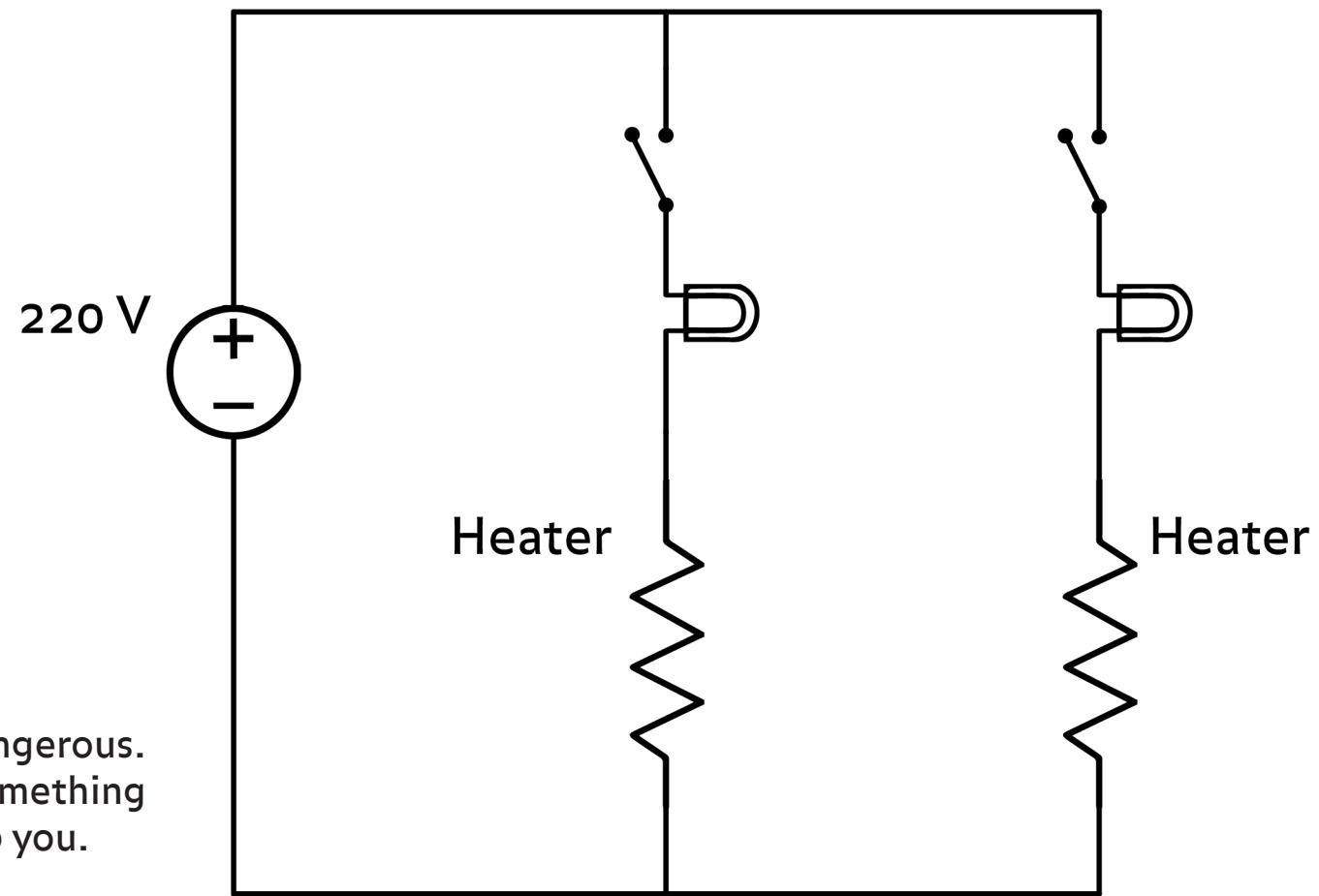
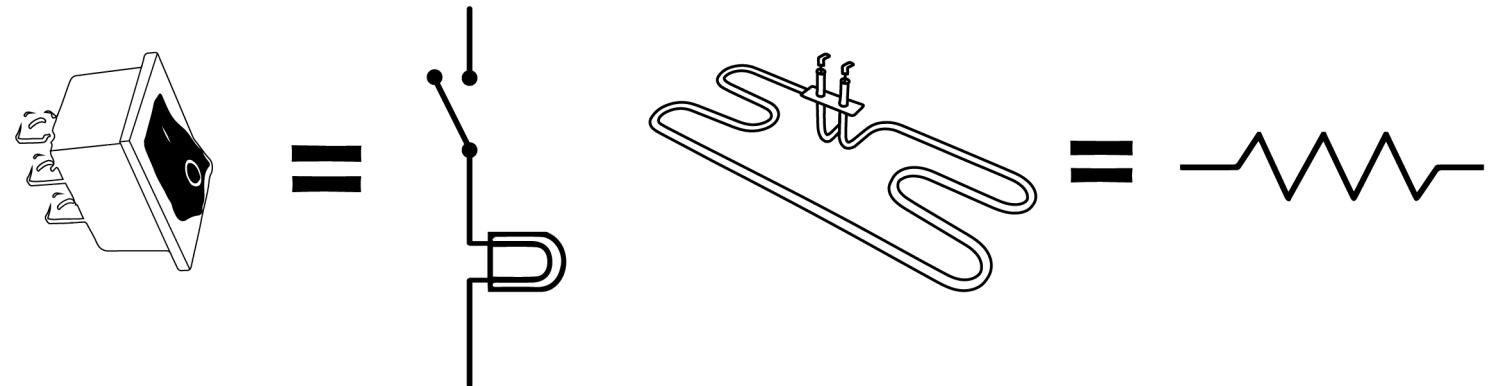


# Step(23)



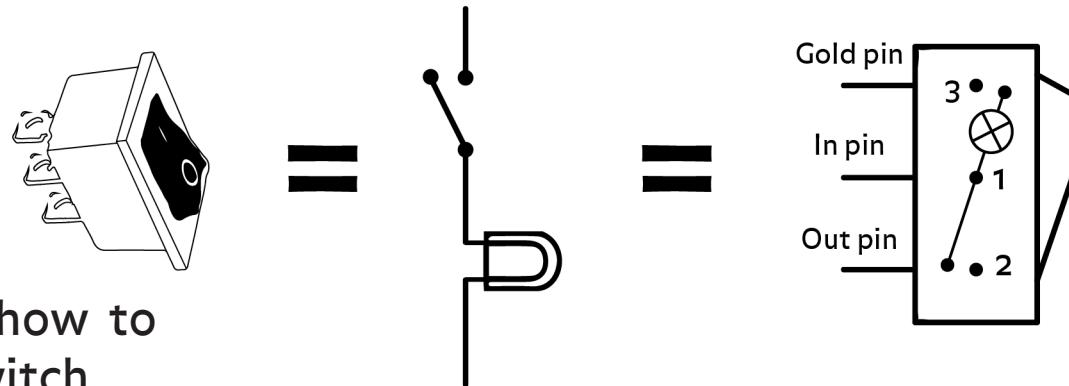
The wiring will go inside of this part  
(The cable management is important,  
no cable should touch a hot surface)

# Step 24

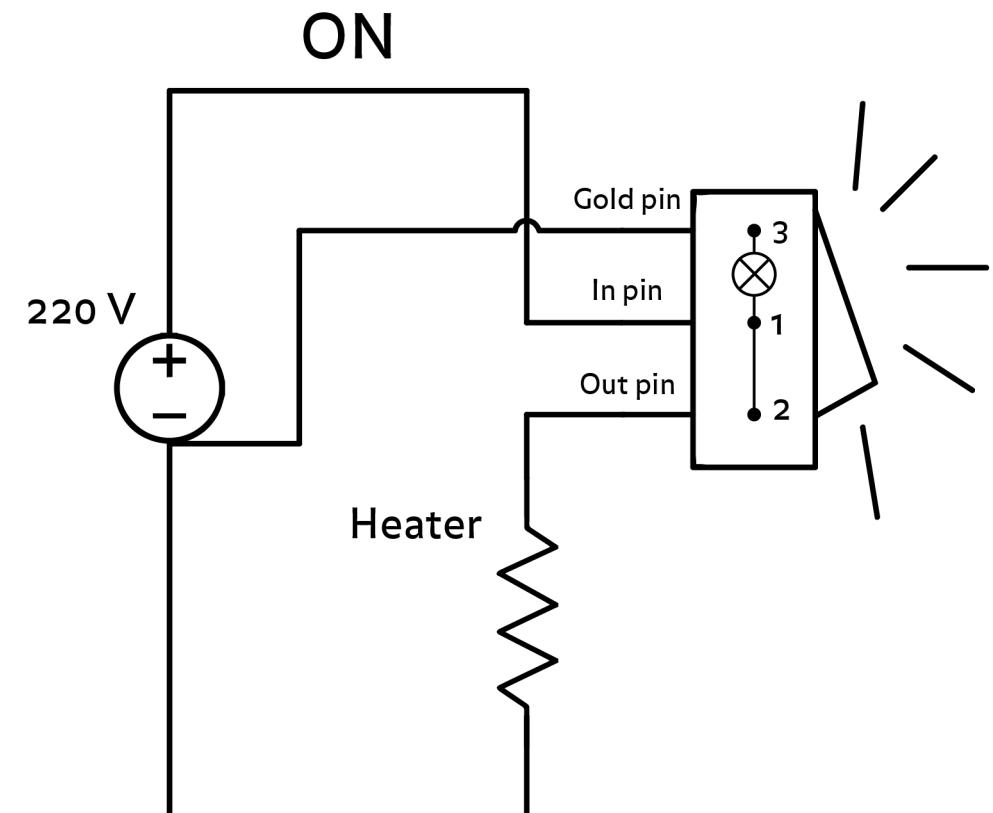
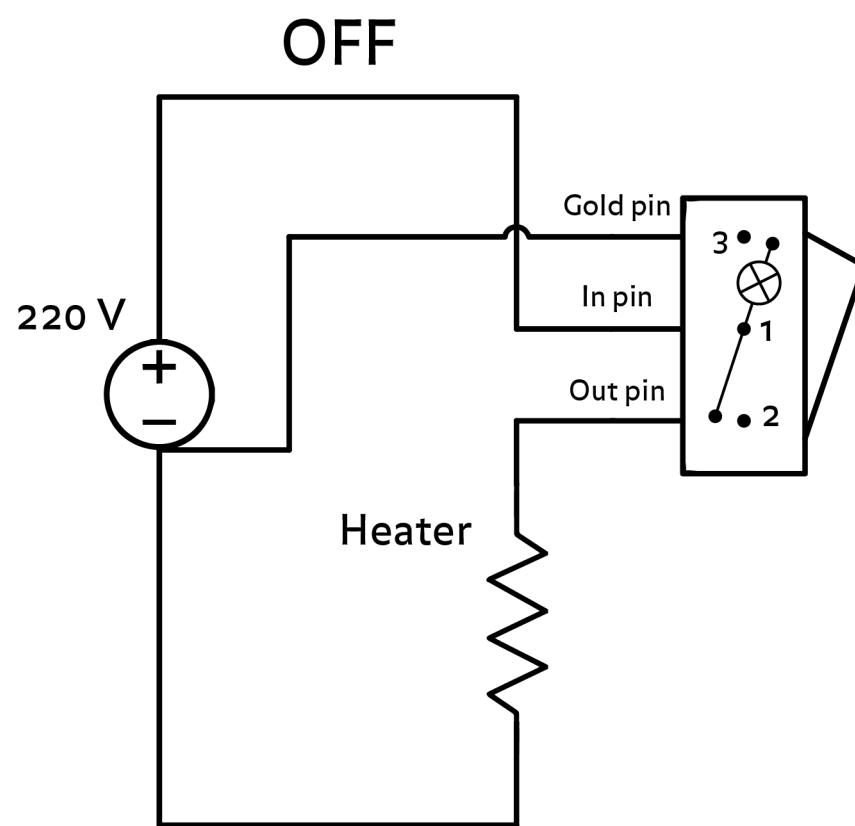


Working with electricity is dangerous.  
If you're not sure about something  
ask someone who can help you.  
Stay safe.

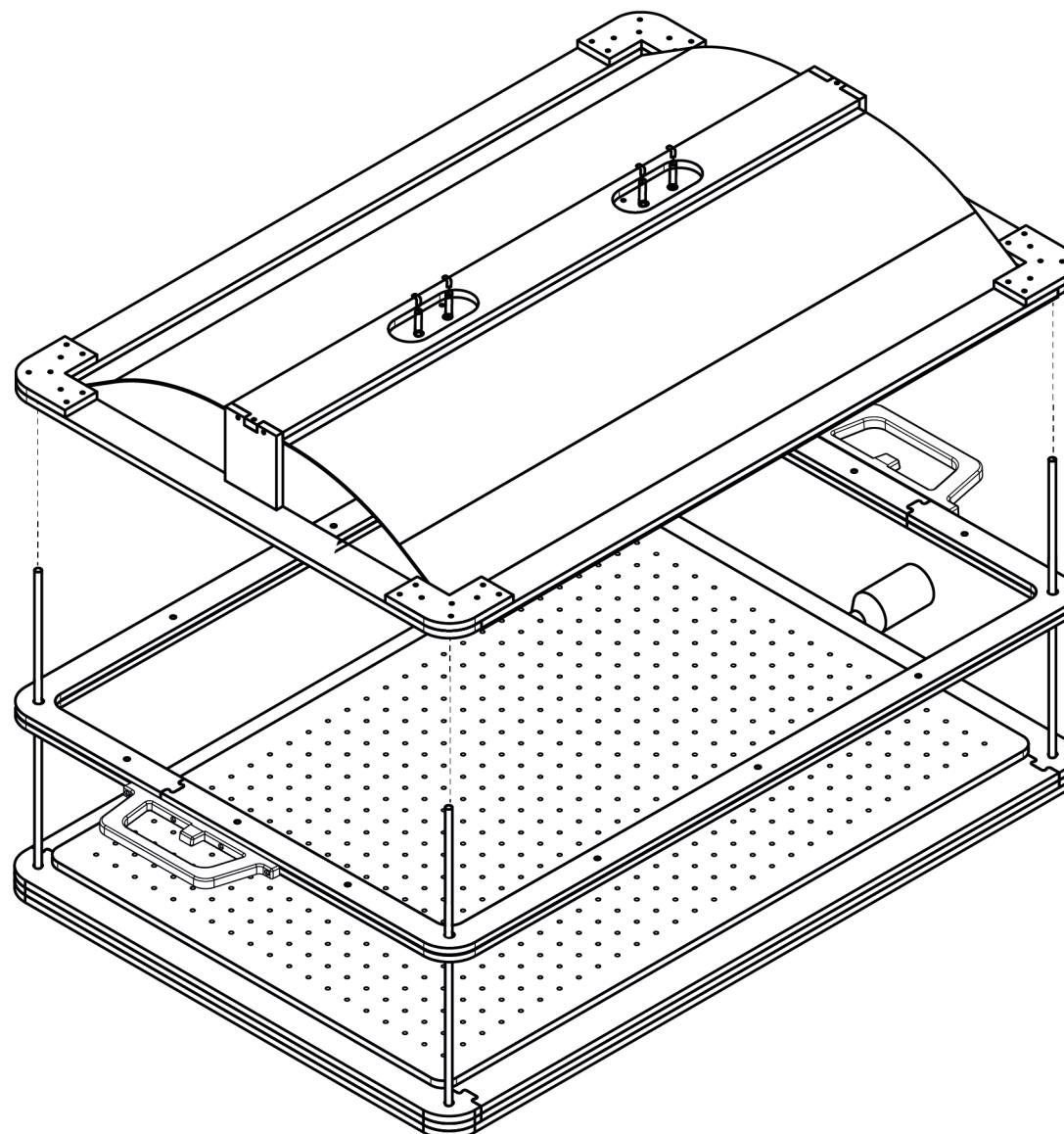
# Step(25)



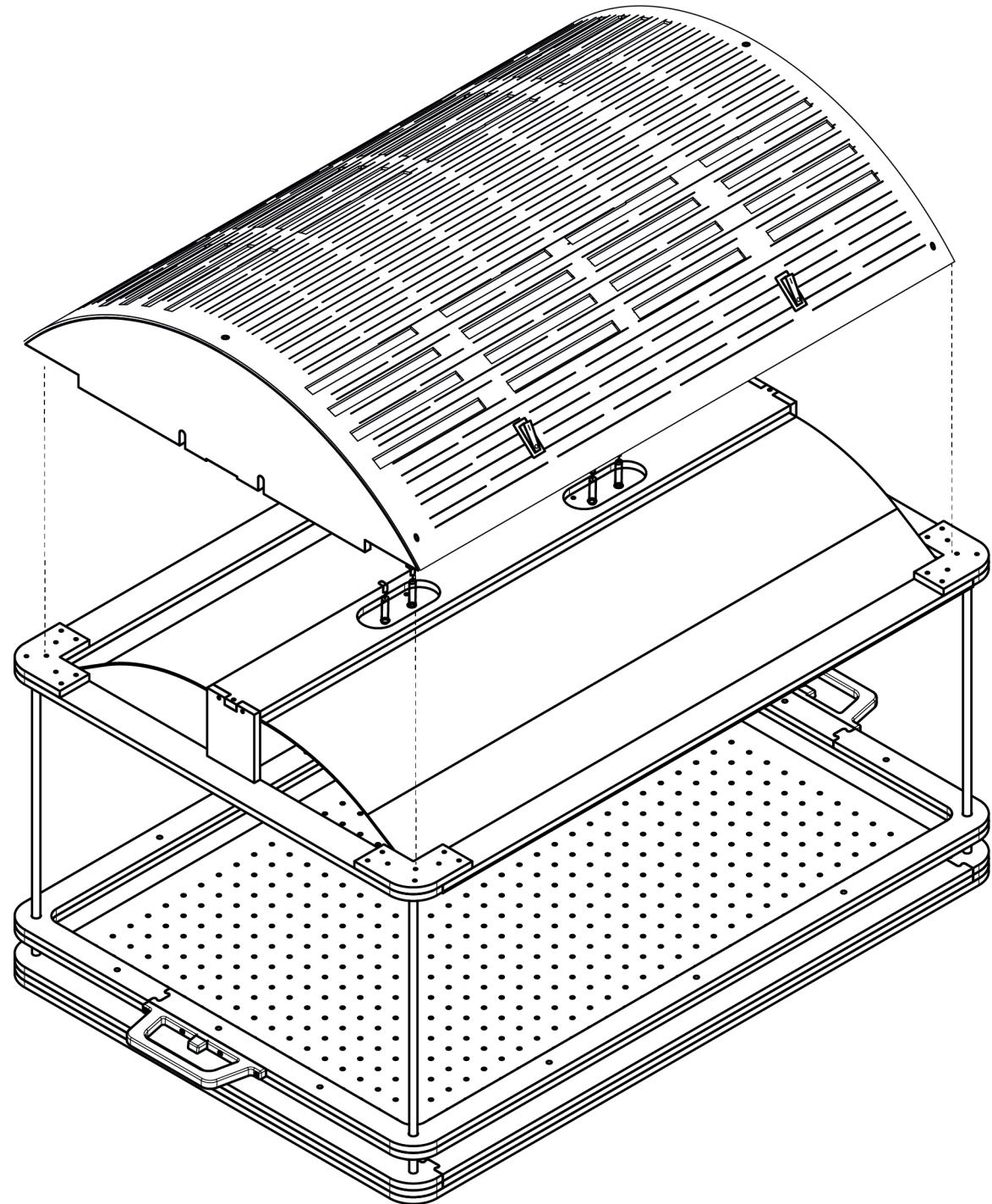
This is an explanation of how to wire a 3 pins ON/OFF Switch and how they works



# Step 26

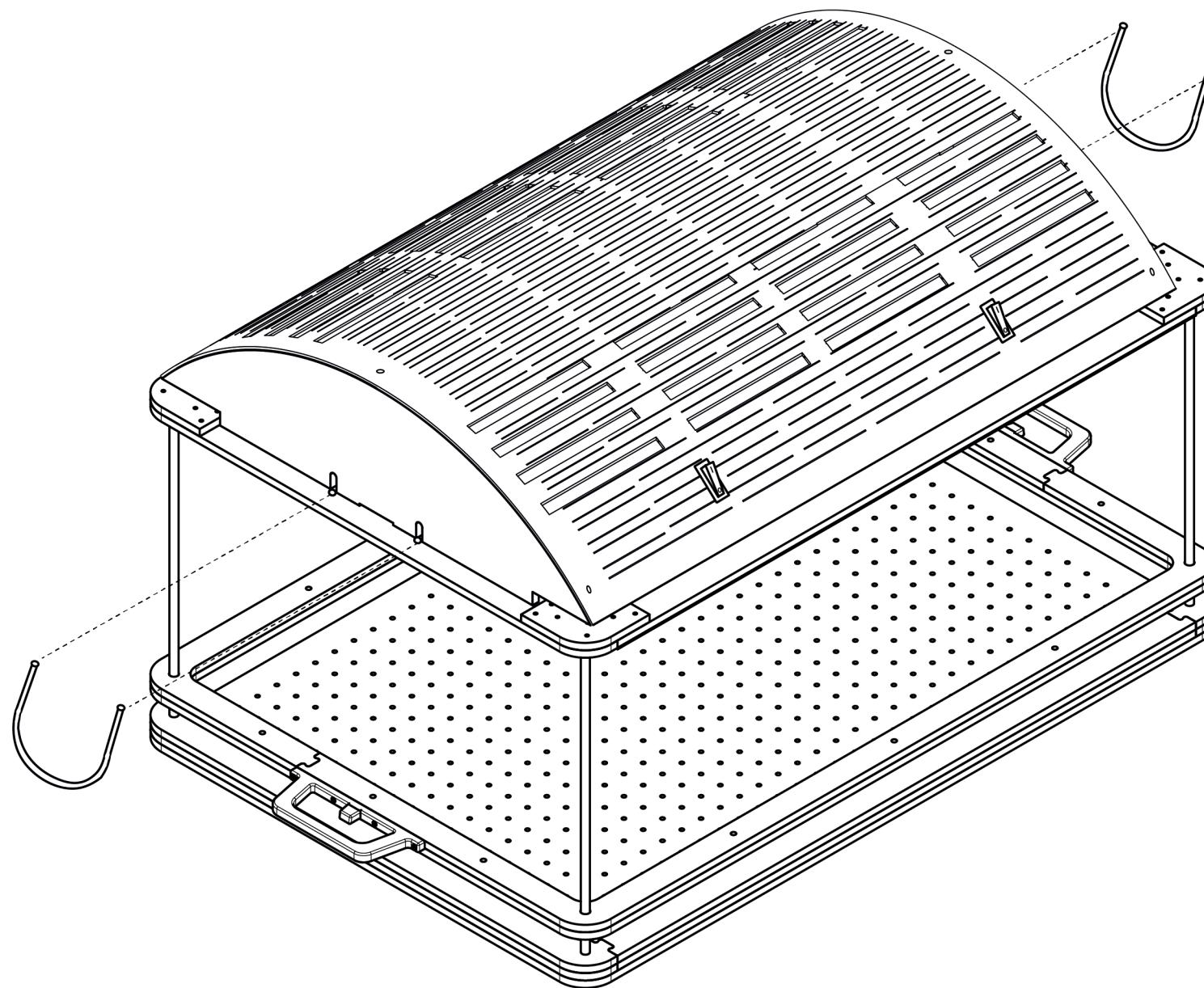


# Step 27

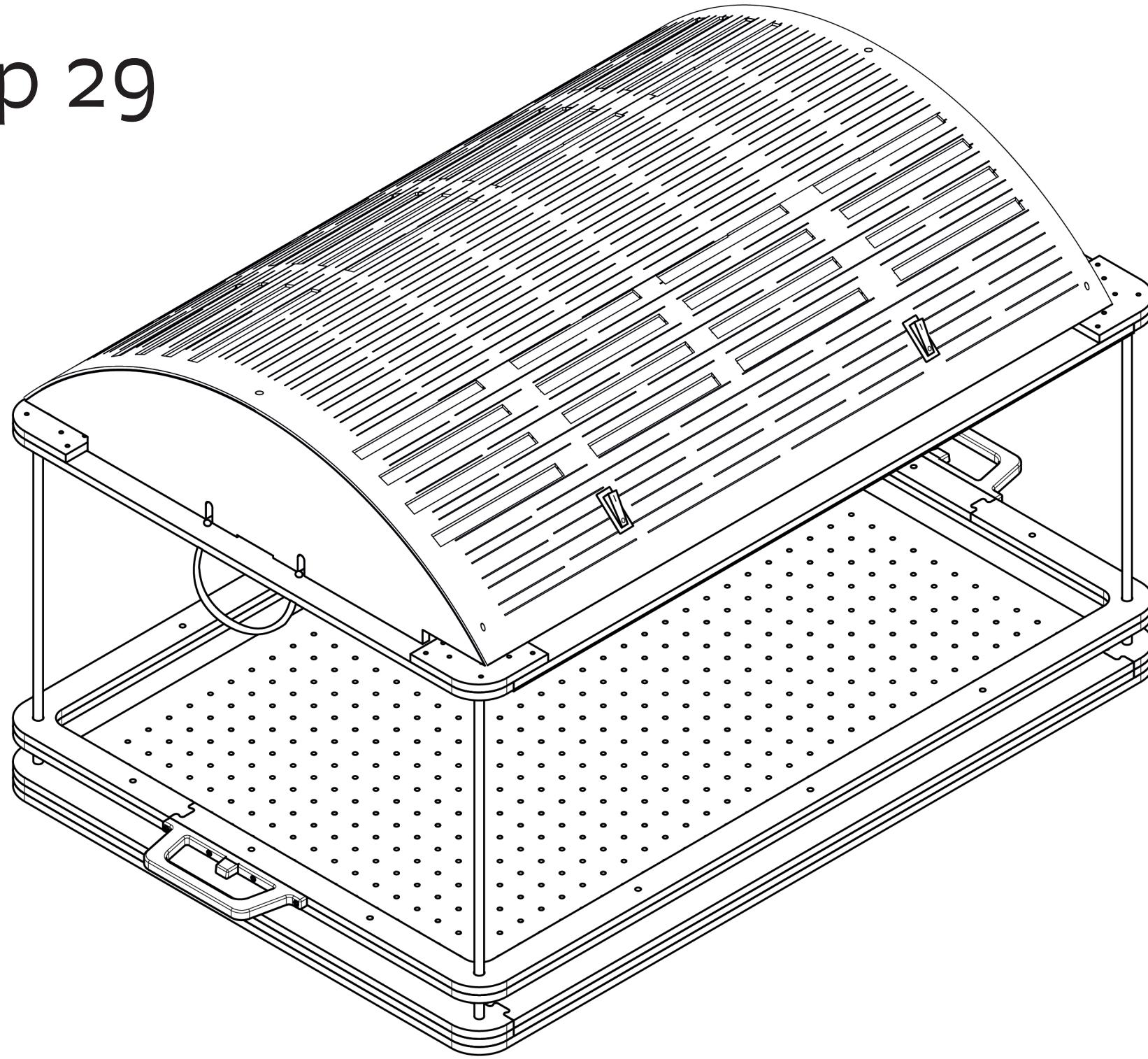


# Step 28

x2 ropes



# Step 29



# A VACUUM FORMER FOR

T<sub>e</sub>t<sub>i</sub>]  
[X<sub>u</sub>é  
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Amsterdam

**Research by Lucas PERRET**



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