



Studio Desk

Maker Guide



opendesk

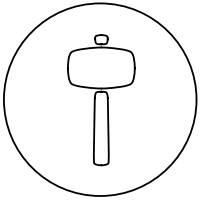
Welcome to your new Opendesk

Every piece of Opendesk furniture is made to order by independent local makers. Opendesk makers produce products on-demand using digital fabricators (CNC- machines) combined with traditional craft skills - working from designs contributed by a global community of designers and hosted on opendesk.cc.

The product you have in your hands is therefore the result of a new model sitting at the union of the internet, new advancements in digital technologies, and age-old making techniques. We call this Open Making.

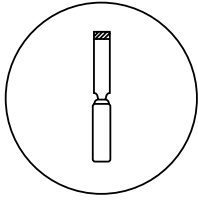


Tools



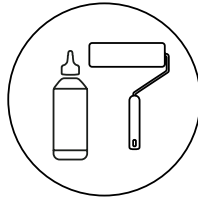
Mallet

A good joint will require a gentle nudge. Using a rubber mallet with a white head will avoid any marks or damage on the furniture.



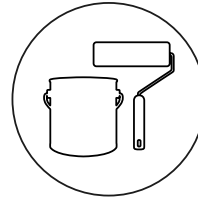
Chisel

Chiseling should not be required on Opdesk furniture. Should you absolutely have to use one, ensure you use a sharp chisel and take off small amounts of material at a time.



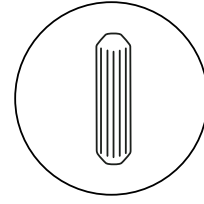
PVA glue

We recommend using a standard PVA based wood adhesive. Use a good quality paint brush or roller to apply glue on the product.



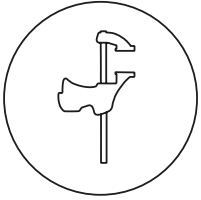
Oil

We recommend the use of Osmo Raw Oil 3044. Use a good quality paint brush or roller to apply oil on the product once properly sanded.



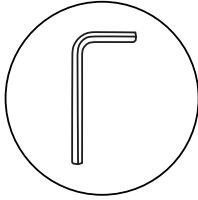
Dowel

Dowels are used for the glueing of two parts together. Holes for the dowels are part of the cutting file. 6mm x 25mm.



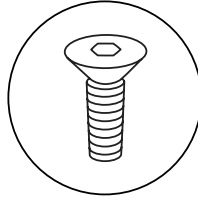
Clamp

Use clamps when glueing two parts together. Be sure to protect the parts from the clamp heads using offcuts or similar methods.



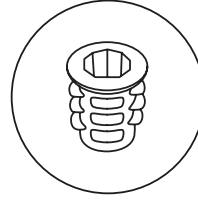
Allen Key

Use a size 5 Allen key to secure the bolts.



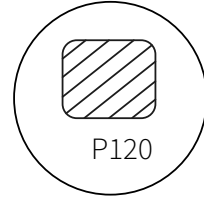
M6 Bolt

We use this fixing for the assembly of the Studio Desk. Use the M6 Bolt (25mm) with the M6 Insert (13mm).



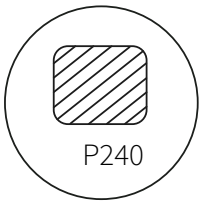
M6 Insert

We use this fixing for the assembly of the Studio Desk. Use the M6 Insert (13mm) with the M6 Bolt (25mm).



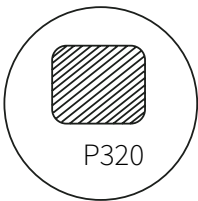
Sanding Paper - P120 grit

P120 grit is usually associated with a C type of finish. Further information on finishing can be found in our maker guide.



Sanding Paper - P240 grit

P240 grit is usually associated with a B type of finish. Further information on finishing can be found in our maker guide.

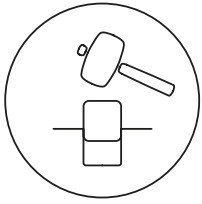


Sanding Paper - P320 grit

P320 grit is usually associated with an A type of finish. Further information on finishing can be found in our maker guide.

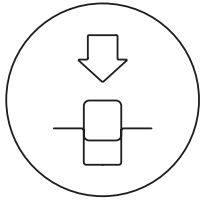


Type of fit



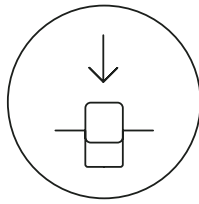
Mallet Fit
- 0.60mm total

The use of a mallet is needed to push the part into its respective slot.



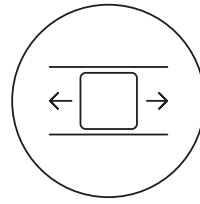
Press Fit
0.00mm total

The joint is an exact fit. This will require a significant amount of force, through hand pressure or the use of a mallet.



Push Fit
+ 0.20mm total

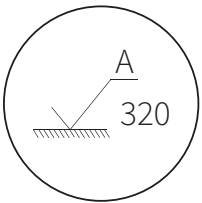
This joint should only require hand pressure to slot together.



Slide Fit
+ 0.50mm total

This joint should be easy to assemble without being too loose.

Type of finishing

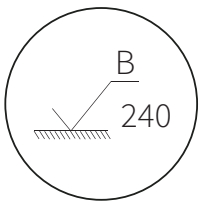


A face/edge

Surfaces such as tops and top edges are always visible and of high contact so require an A type of finish.

Recommended procedure:

1. P120 grit
2. P240 grit
3. oil
4. P240 grit
5. oil
6. P320 grit

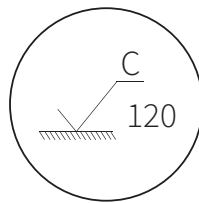


B face/edge

Surfaces which are highly visible or easily contactable.

Recommended procedure:

1. P120 grit
2. P240 grit
3. oil
4. P240 grit

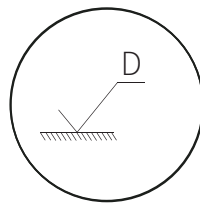


C face/edge

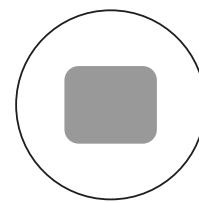
Surfaces that are not directly visible or of low contact. Generally areas within joints.

Recommended procedure:

1. P120 grit

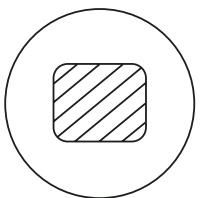


Deburring



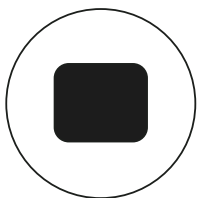
Glued surface

This indicates the area for glue application.



Oiled surface

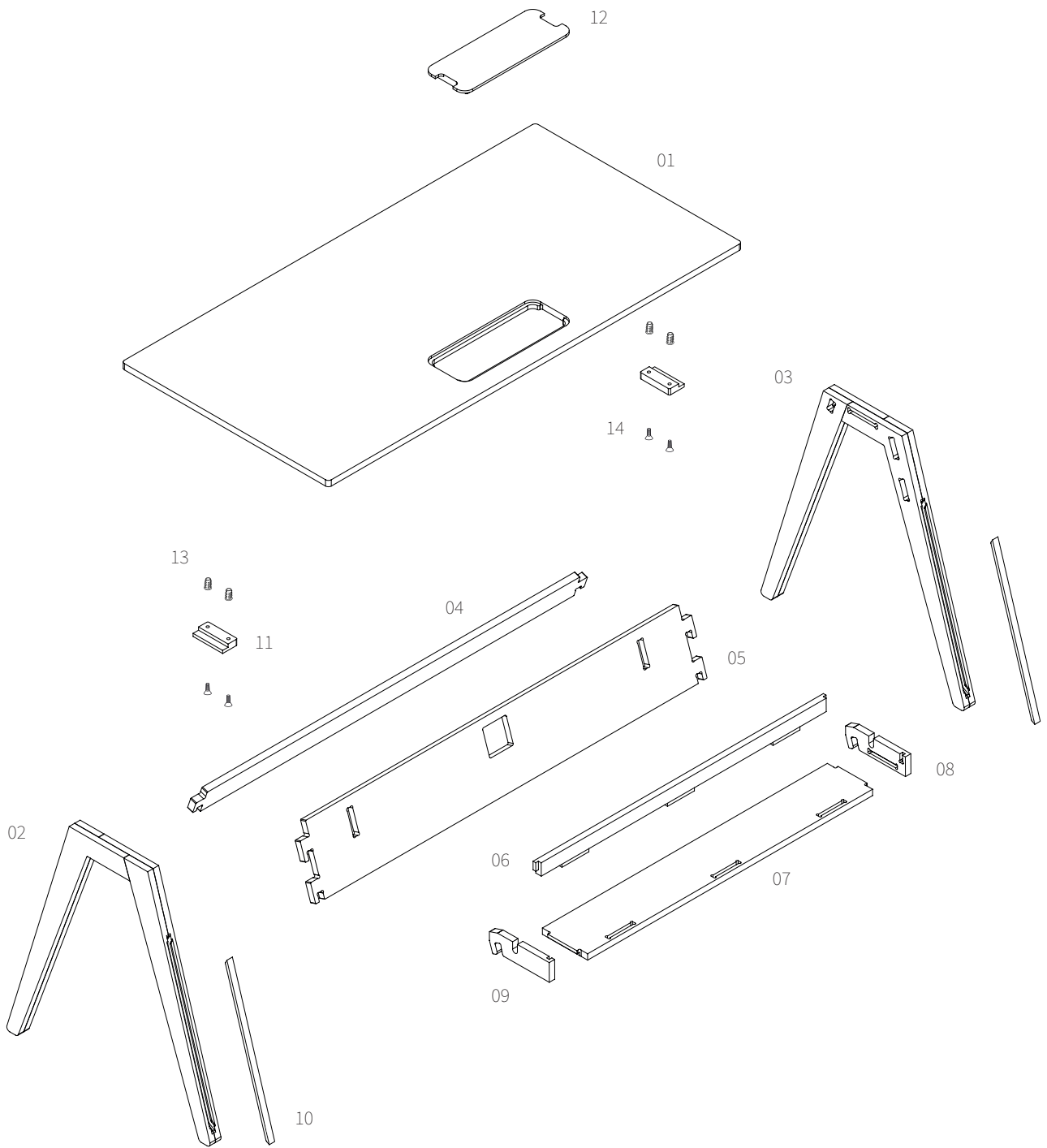
This indicates the area for an oil application.



No finish

This indicates the area that have to be left raw.





01 - desk top

02 - right leg

03 - left leg

04 - front brace beam

05 - back brace beam

06 - cable tray brace

07 - cable tray base

08 - left cable tray hook

09 - right cable tray hook

10 - cable concealing strip

11 - screw plate

12 - cable cover

13 - M6 insert - type P insert nut (13mm)

14 - M6 bolt (25mm)



Suggested Method

Parts:

1x Table top
1x Cable cover
1x Brace beam front
1x Brace beam back
1x Cable tray back
1x Cable tray base
2x Cable tray sides
2x Leg A (L+R)
2x Leg B (L+R)
2x Leg C (L+R)
2x Leg D (L+R)
2x Screw plates
2x Leg cable concealing strips
4x M6 Inserts and bolts
28x Dowels, 6x25mm

Standard Steps:

1. Assemble, sand, oil legs
2. Sand, oil, assemble cable tray
3. Sand and oil all plates and beams
4. Sand and oil table top and cable cover
5. Assemble

Instructions:

1. Spread one side of leg parts out on the workbench in order BCDA. Dab a drop of glue in each of the C and D holes and add the dowels. With a roller spread the glue evenly on the B and A faces. Join together BC and DA, then join these two sets together, BCDA. When bringing the legs together, C and A will overlap at the top. Sandwich the legs together and bang to close the gap with a mallet. Check that the gap is closed up and flush. Repeat the whole process on the right side leg. With Grit 240 individually sand each set of legs. Sand all the ply edges first and then the facings. Oil in the same order. Wipe off any excess and put to the side. Sand the two leg cable cover inserts with 240, then oil, wipe dry and check that they fit tight into the back of the legs. Once finish, put legs, with cover inserts to the side.

2. Sand the ply edge of the two side pieces for the cable tray together, then the faces, with grit 240. Oil, then wipe dry. Do the same with the base of the cable tray, then the back. Glue up all pockets and assemble the back to the base then add the two sides. Put to one side, or under the workbench.



Suggested Method

3. Sand the plates with grit 240. Sand the edge grain first on both long sides, then the faces. Oil in the same order you sanded, however avoid getting oil on one end of the plates to allow for glue. Wipe off any excess oil. Repeat the process with the two brace beams. Put parts to side.

4. Sand the cable cover around the edge then the faces with Grit 400, Oil, wipe dry and put to the side. Make sure the workbench is completely wiped down and free of debris. Place table top on the workbench lengthways but up on its edge. Using 240, sand around the plywood edge first in an 'L' formation, rotating the table top so the sanding pressure is always facing down where possible. Make sure chamfers are also sanded smoothly. Laying the table top upside down, sand the underside with 400. Hand sand the rim of the cable cover hole with 240 grit. Oil the whole underside evenly with a roller then wipe dry. Flip the top over and sand with 400. Oil the edge and the top, wipe down any excess. Flip the top over again, add the inserts to all 4 holes.

5. Place the table top upside down on the workbench. Insert the brace bars into one set of legs, the larger bar goes onto the leg with the cable slot in the back. Force them down so they are flush with the top of the leg. Do the same process with the other set of legs, you now have your frame. Flip the frame over onto the table top and align the insert holes. With an allen key turn the bolts until tight in the hole.

Standard Checks:

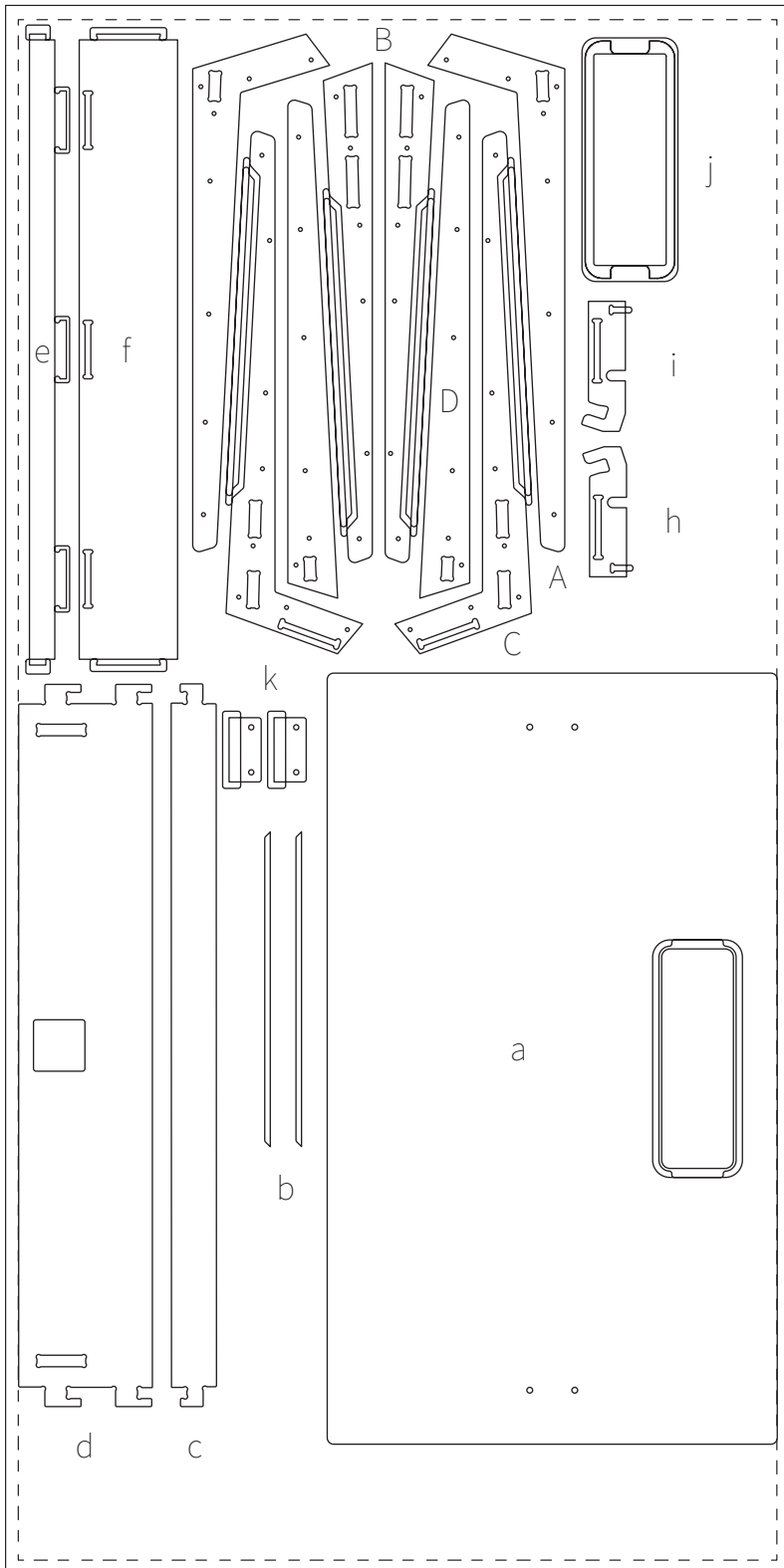
1. Flip over the table onto the floor and test for rigidity.
2. Make sure the rim and chamfer around the tabletop is smooth to the touch.
3. Check the inserts and bolts are fully locked in place.

Standard Estimated Timings:

1. Assemble, sand, oil legs	A-5.5, S-14, O-3.5	24 min
2. Sand, oil, assemble cable tray	S-5, O-2, A-2	9 min
3. Sand, oil plates and beams	S-7, O-3	10 min
4. Sand and oil tabletop with cable cover	S-19, O-7 A-1	27 min
5. Assemble	A-3	3-5 min
Estimated Total:		73 min



Cutting Sheet

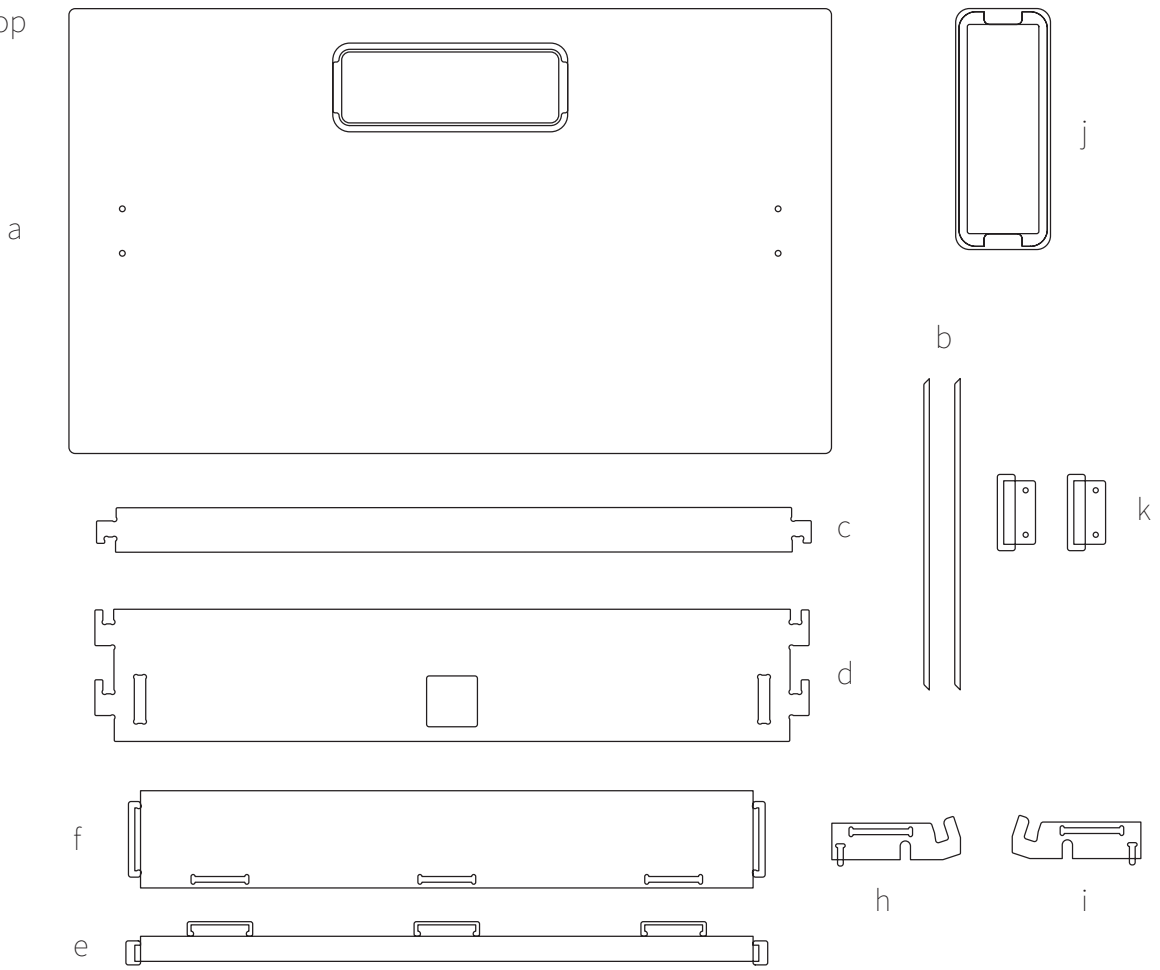


- a. desk top
- b. cable concealing strip
- c. front brace beam
- d. back brace beam
- e. cable tray brace
- f. cable tray base
- A. outside/front leg component
- B. outside/back leg component
- C. inside/back leg component
- D. inside/front leg component
- h. left cable tray hooks
- i. right cable tray hook
- j. cable cover
- k. screw plates



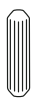
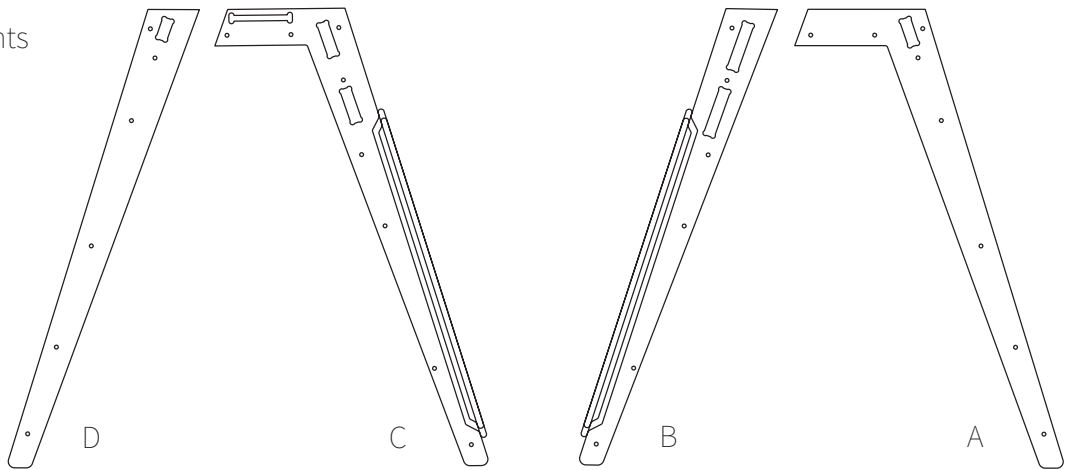
Components

Desk top

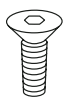


Leg components

X2



X14



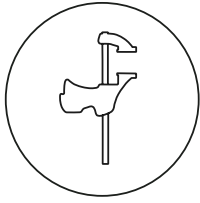
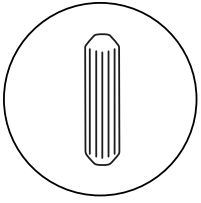
X4



X4



Leg Exploded

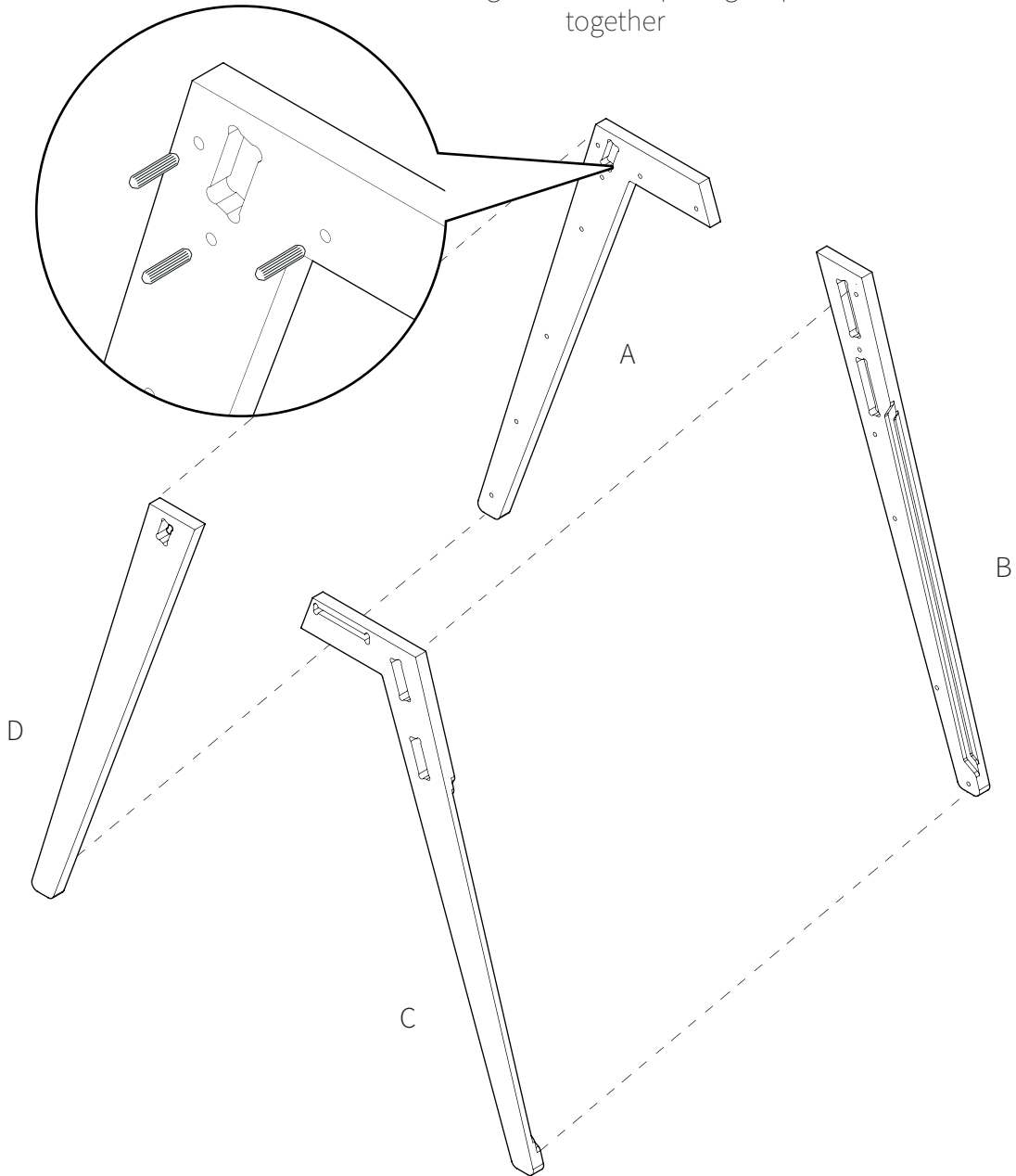


X14

(6mmx25mm)

1.1

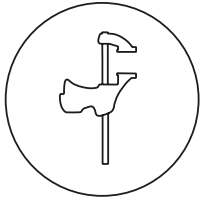
dowels, glue, and clamps to glue parts together



X2

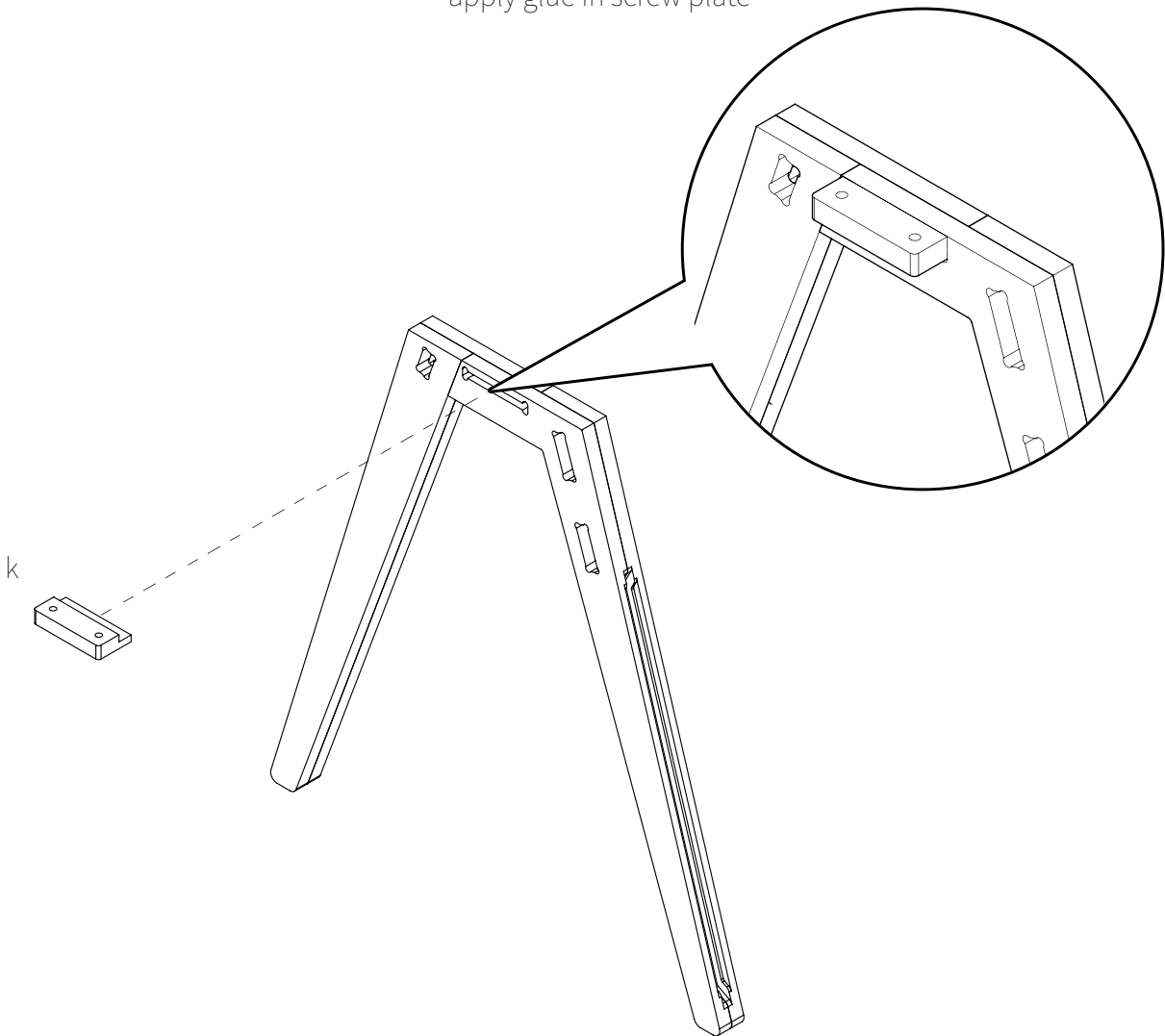


Leg Exploded



1.2

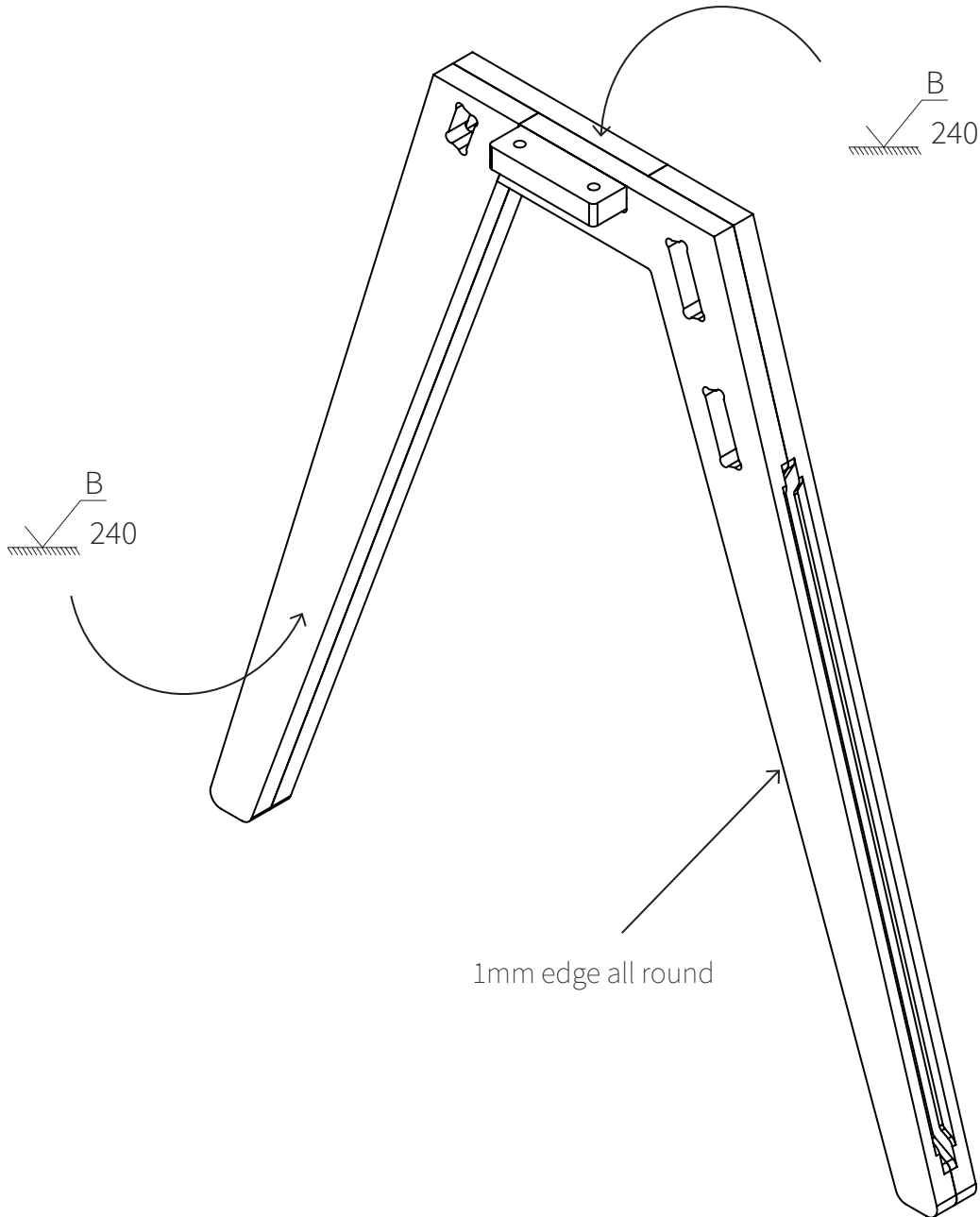
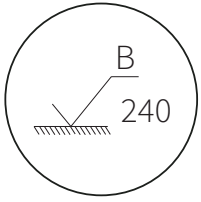
apply glue in screw plate



X2



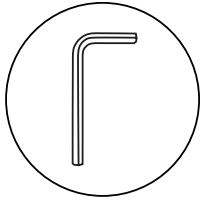
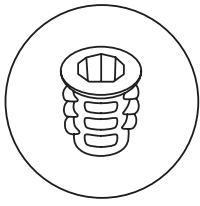
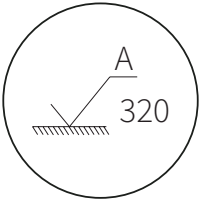
Complete Leg



X2

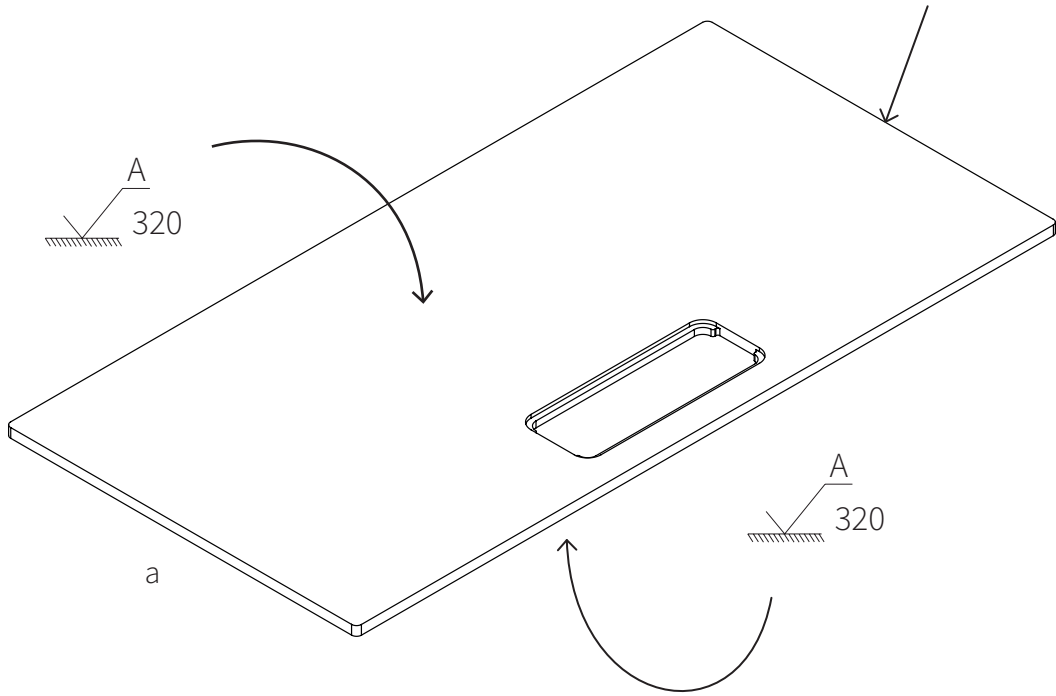


Table Top

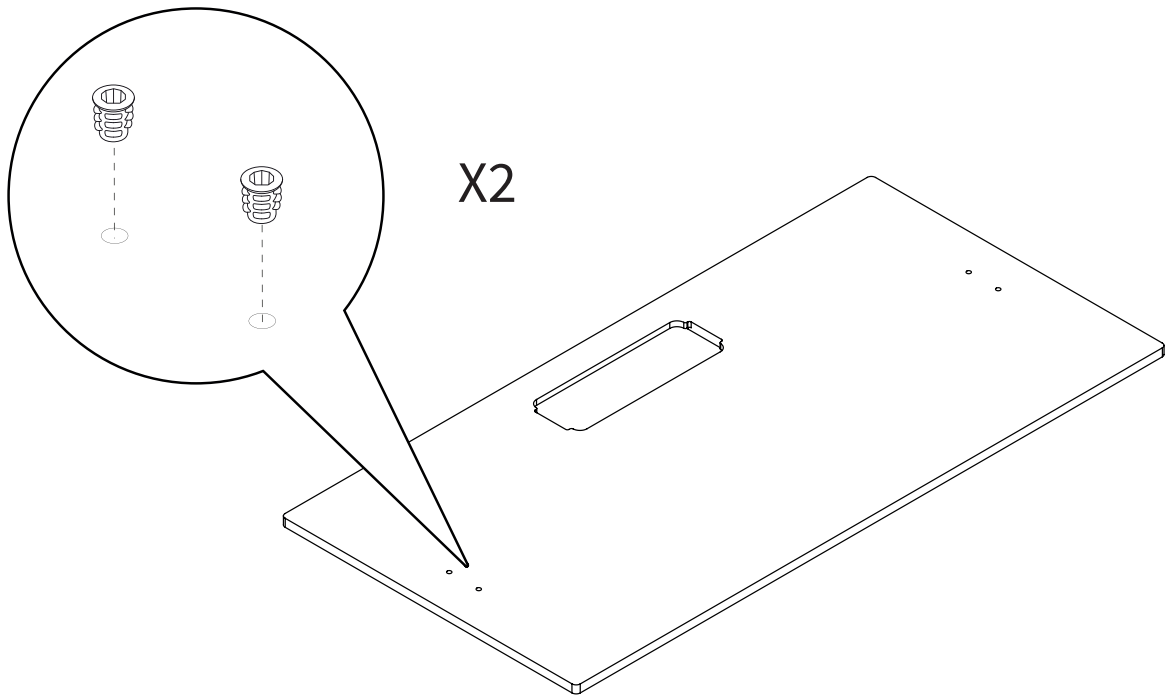


2mm chamfer all round

2.1



2.2



1

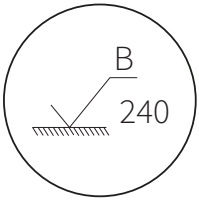
2

3

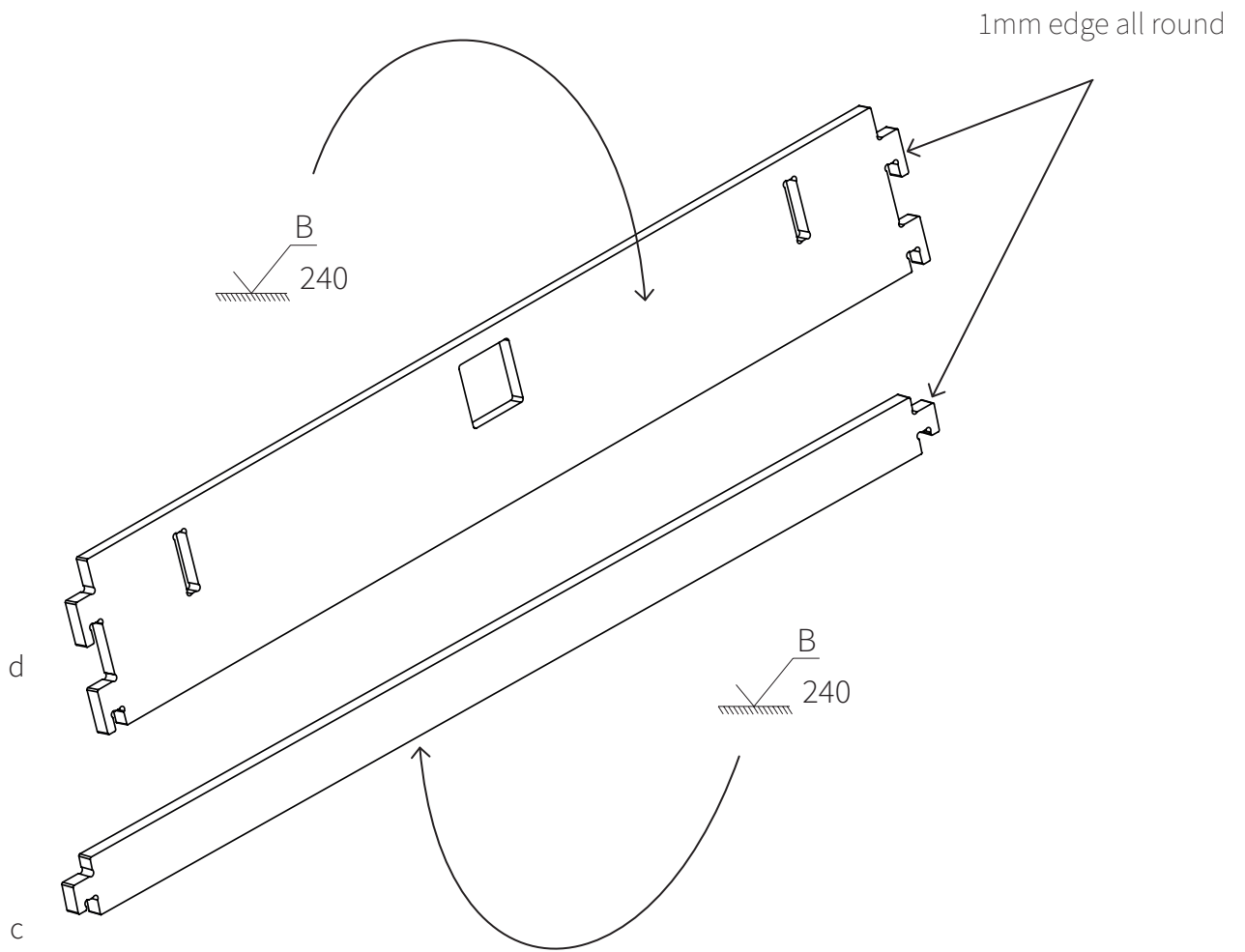
4

5

Brace Beams



3.0



1

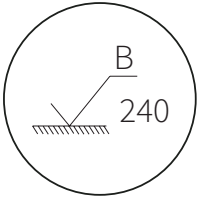
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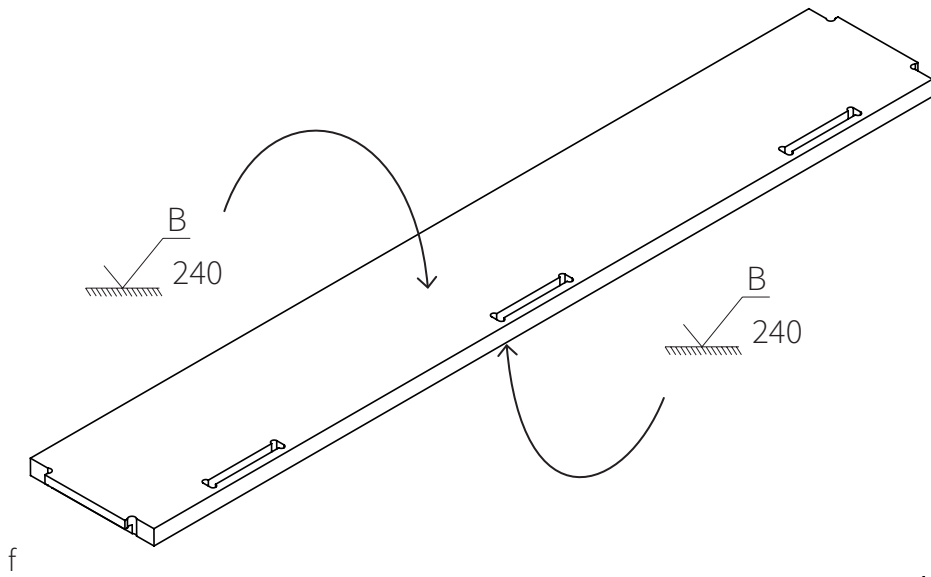
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5

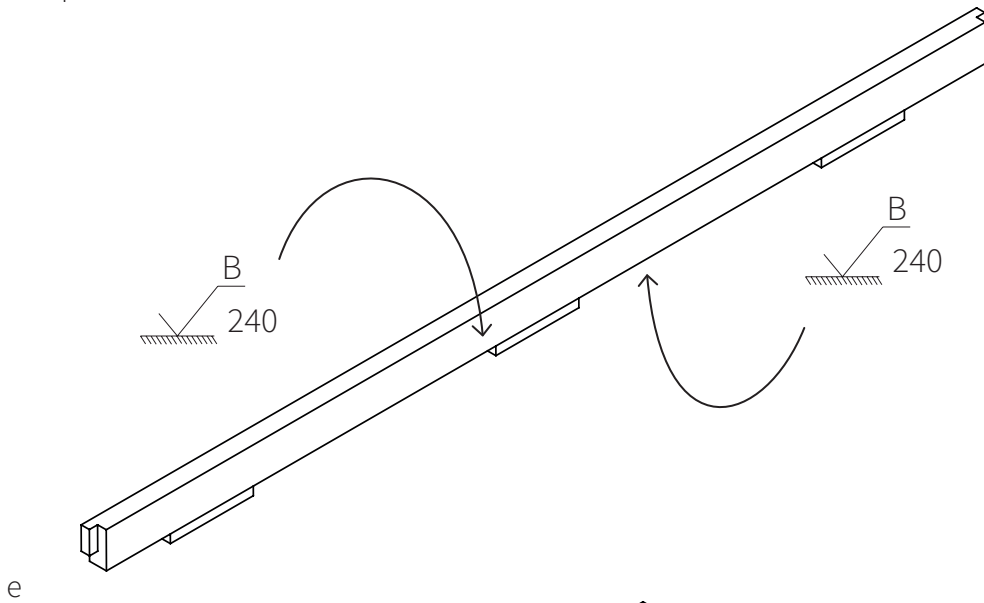
Cable Tray Parts



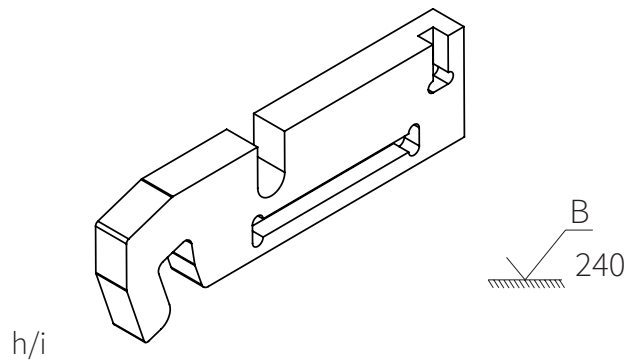
4.1



4.2



4.3



1

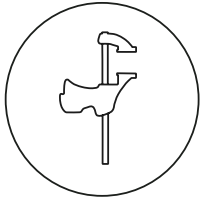
2

3

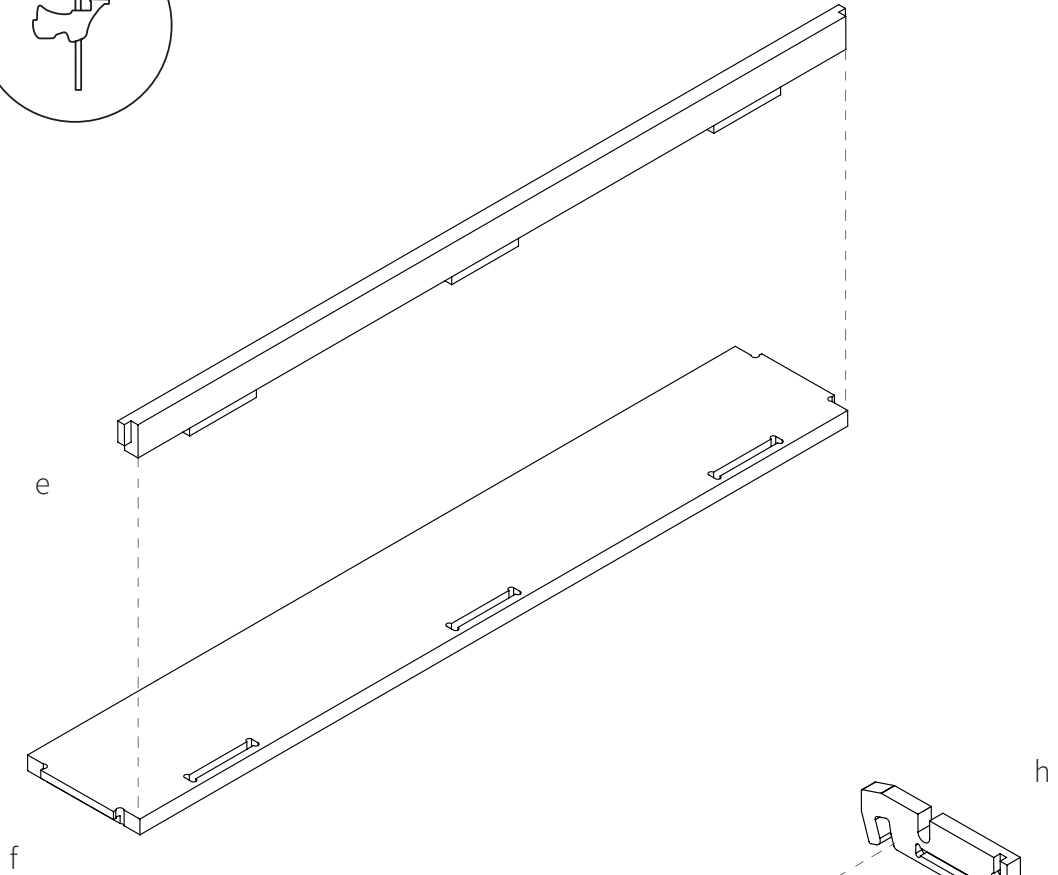
4

5

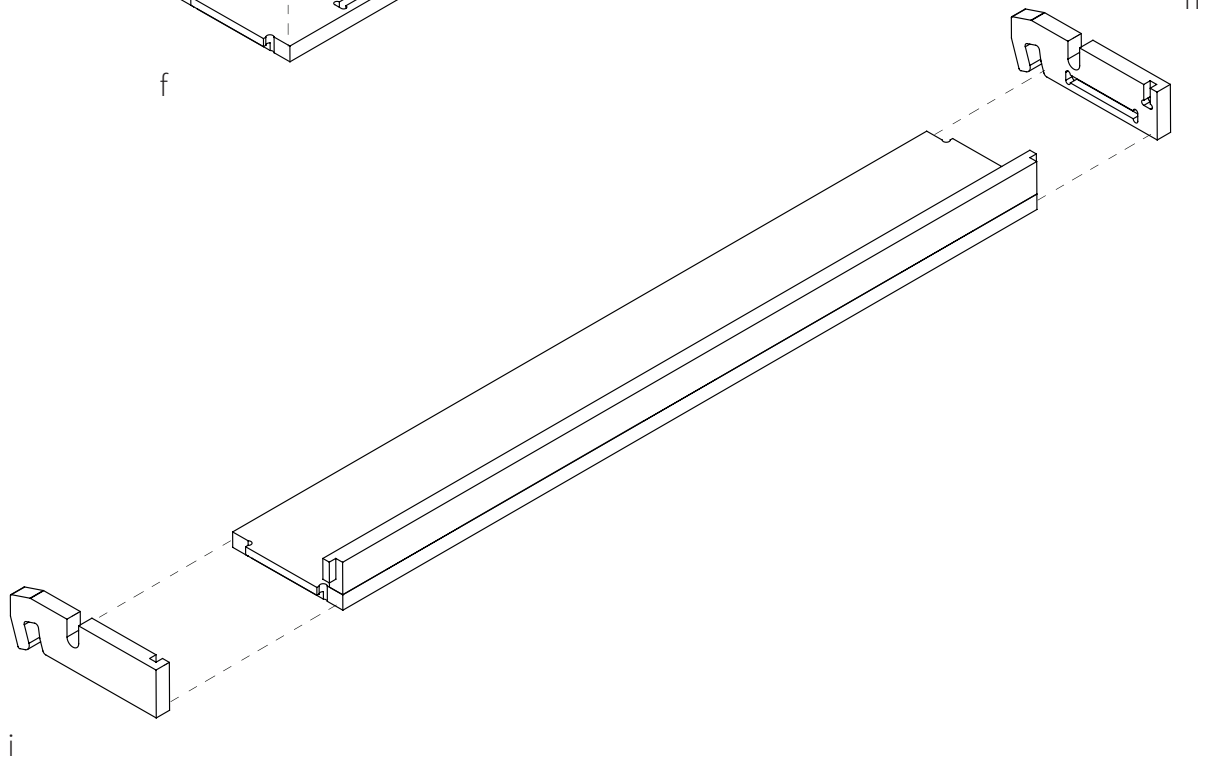
Cable Tray Exploded



4.4



4.5



1

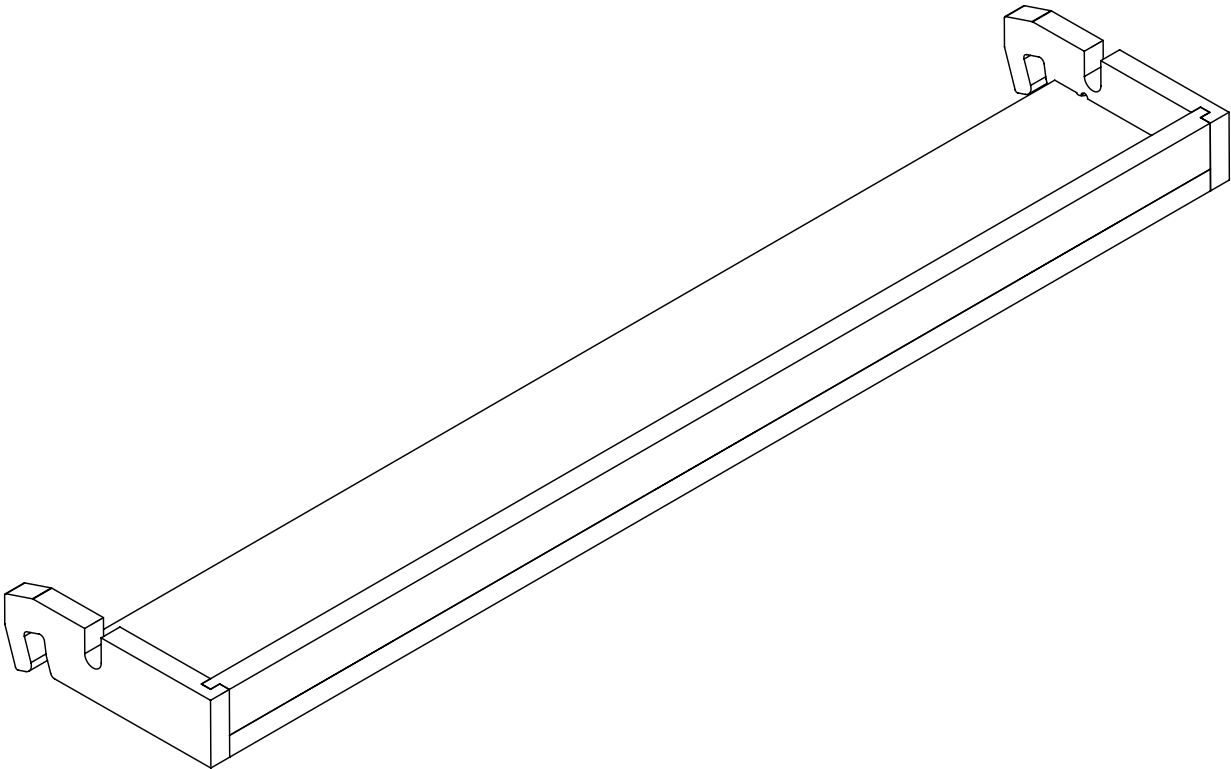
2

3

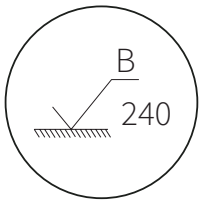
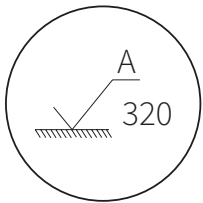
4

5

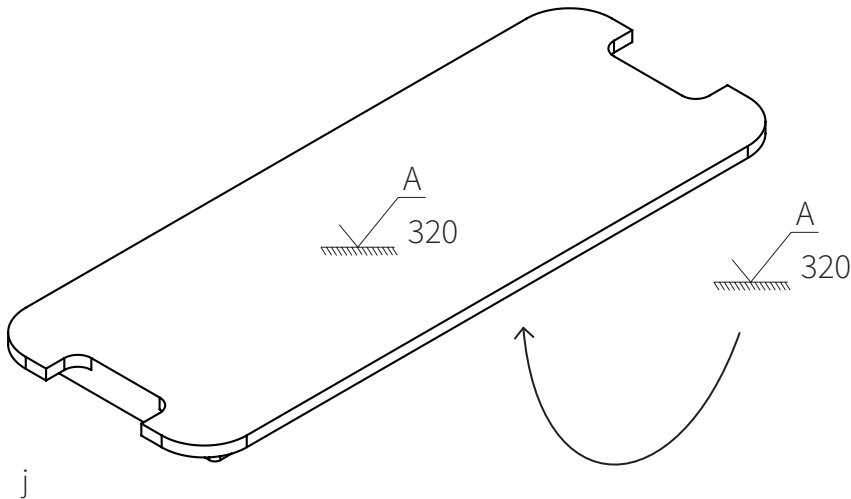
Completed Cable Tray



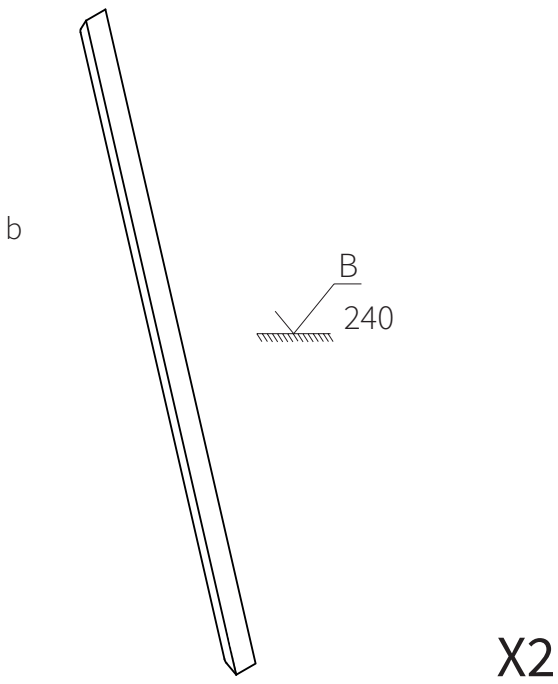
Cable Cover and Cable Concealing Strips



5.1



5.2



1

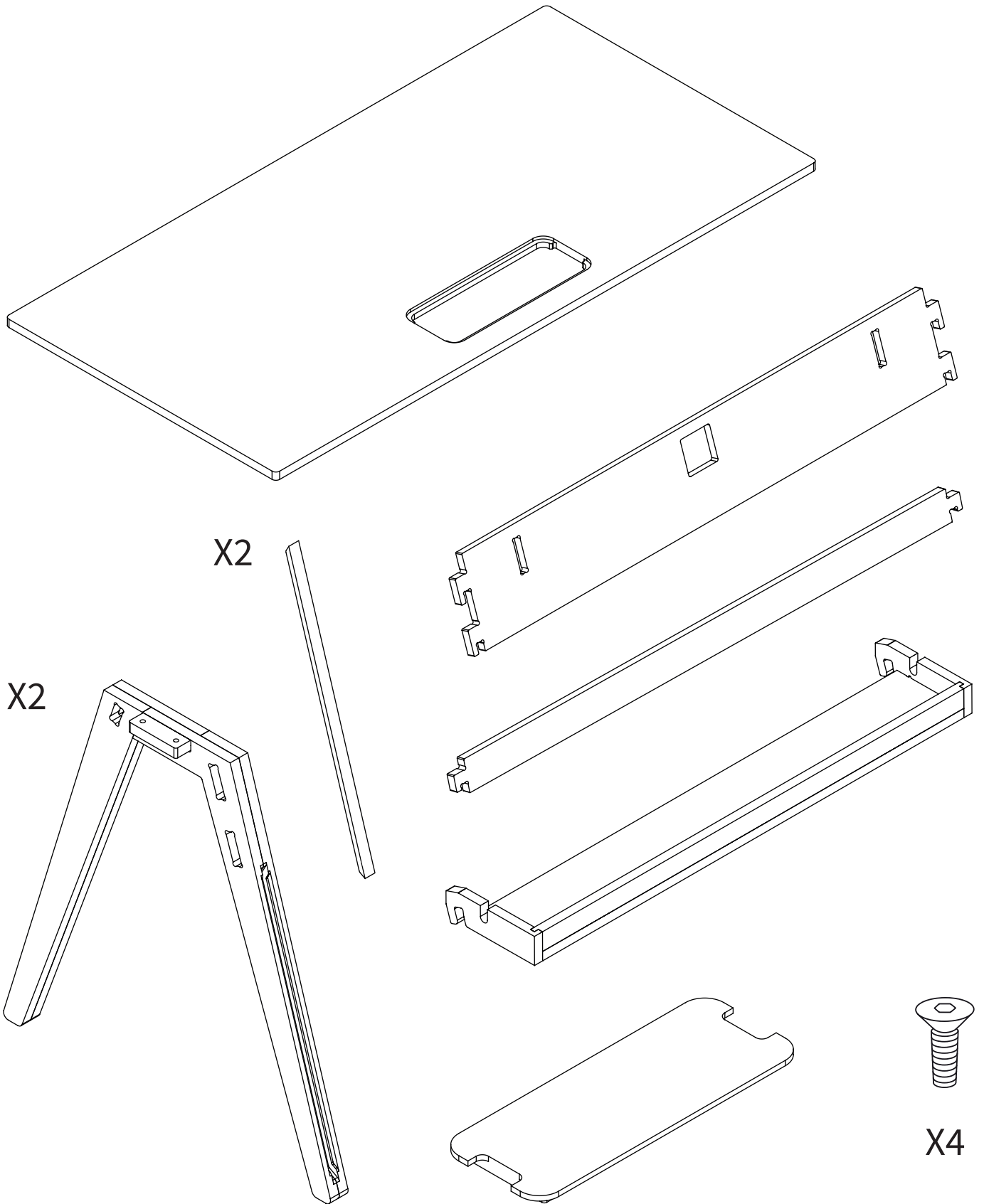
2

3

4

5

Checklist for Assembly



X2

X2

X4





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