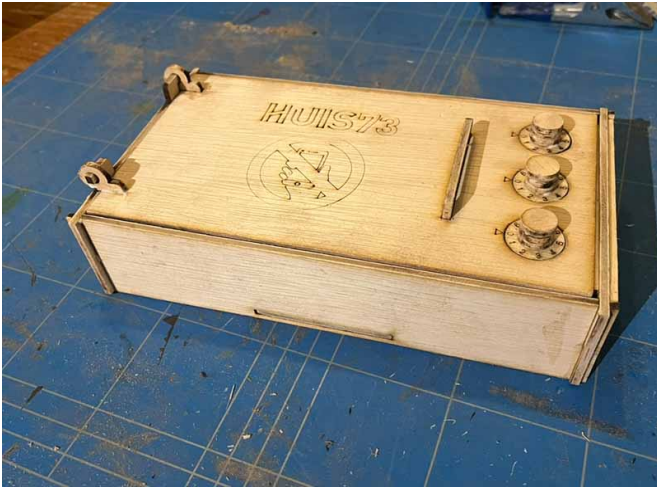


Phone vault



duration: 30 - 60 minutes
age: from 7 years

Make a phone vault and go offline.

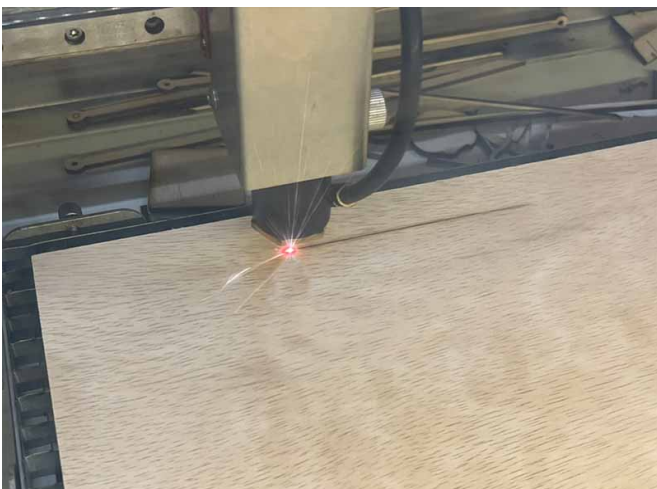
undefined

tools

- Laser cutter
- Sandpaper
- glue brush
- clamps

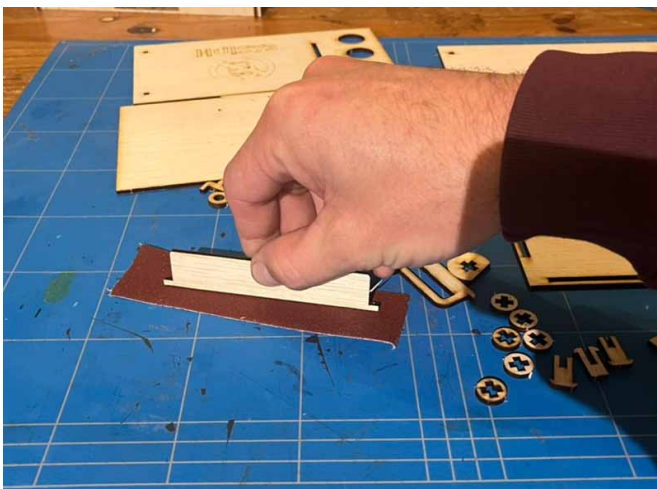
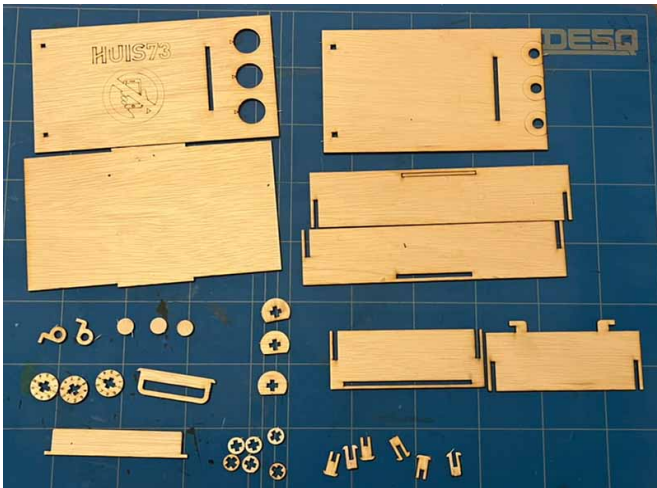
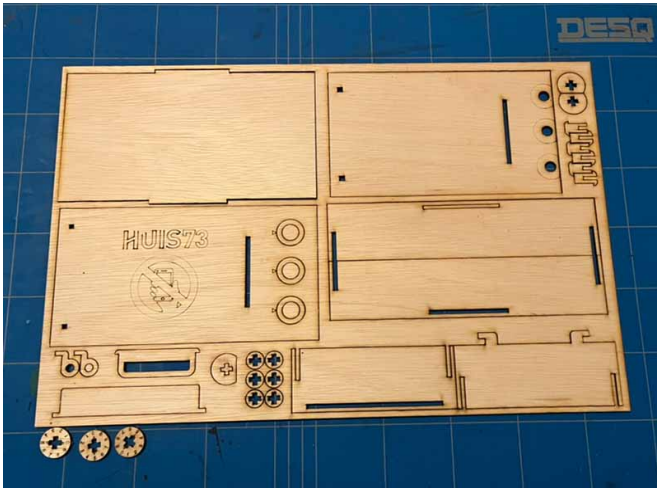
materials

- 3mm plywood
- Wood glue
- wax or candle wax



1 Cut out the parts

- Use a lasercutter to cut out the provided template.



2 Sand the parts

- Punch the parts out of the sheet and sand the edges smooth with sandpaper. Be careful with the thin pieces.
- Once the dark layer from the laser cutting has disappeared you have sanded enough.
- Make sure the inside of the round holes and the outside of the number discs are sanded too.



3 The lid

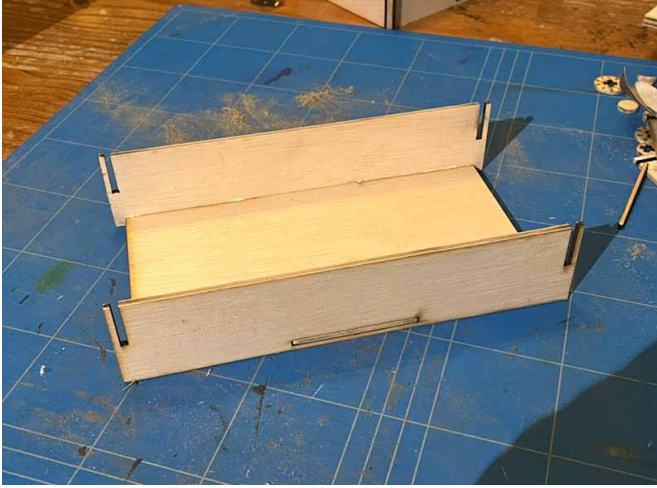
- Put glue on the part with the small round holes with drawn circles around them. Make sure no glue gets inside the drawn circles.
- Put glue on the part with the small round holes with drawn circles around them. Make sure no glue gets inside the drawn circles.
- Push the handle up from the bottom through the glued sheet. Use this to center the top sheet exactly.
- Clamp it with clamps.



4 First hinge loop

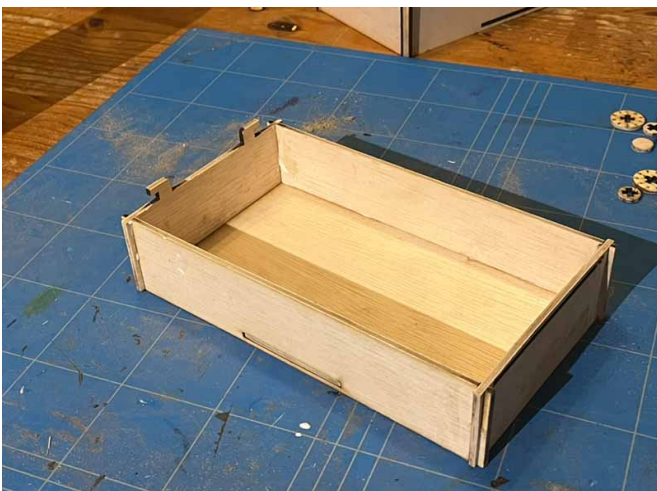
● Glue only one loop here. The other loop will be added later.

● Glue one of the hinge loops in place.



5 The box

- Attach the sides to the bottom. Use some glue to hold them in place.
- Put some glue in the slots for the short sides and slide the short sides into place.



6 Lock mechanism

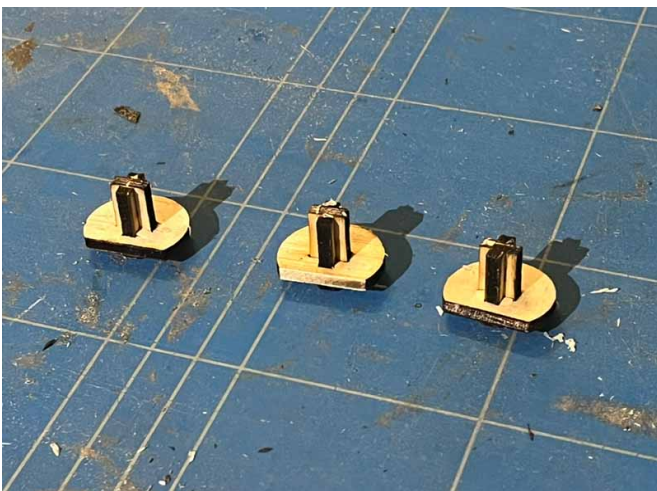
- Sand a beveled edge on the small wood piece that goes into the side.
- Glue the small piece in place with the beveled edge facing down.





7 Lock mechanism

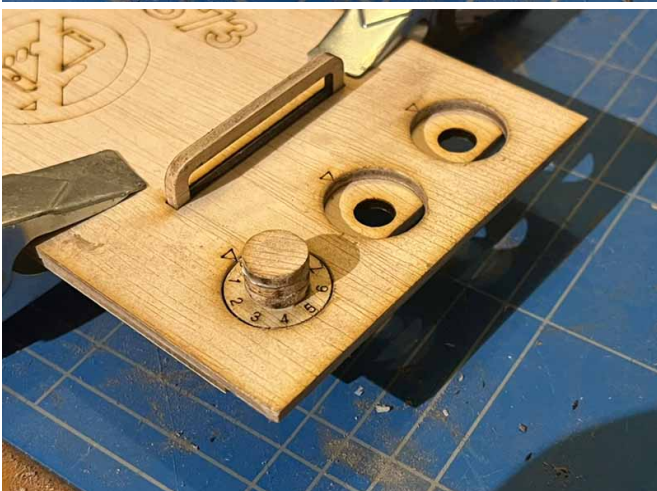
- Slide the pins together. No glue is needed for this.
- Put some wax on one side of the discs with a flat side.
- Slide the discs with the flat side onto the pins. The waxed side should face up.





8 Assemble lock mechanism

- The number rings have small triangular arrows. They point to the numbers you can use for your code.
- Insert the pins from bottom to top through the lid. Align the flat side with the bottom edge of the lid.
- Wax the bottom and side of the number rings.
- Slide the number rings onto the pins from the top. No glue is needed. Make sure the digit of your code lines up with the arrow on the lid.



9 Turn knobs

- Put some glue on one of the pins that now stick out of the lid.
- Slide the discs with plus-shaped holes over the pin.
- Glue a small disc without a hole on top of the knob.
- Repeat for the other knobs.



10 Second hinge loop

- Slide the hinge loop that is already in the lid around the hinge pin of the box.
- Now glue the second hinge loop in place.



11 Done!

- Wait for the glue to dry and you're done!
- Put that phone away and play a board game with your family.