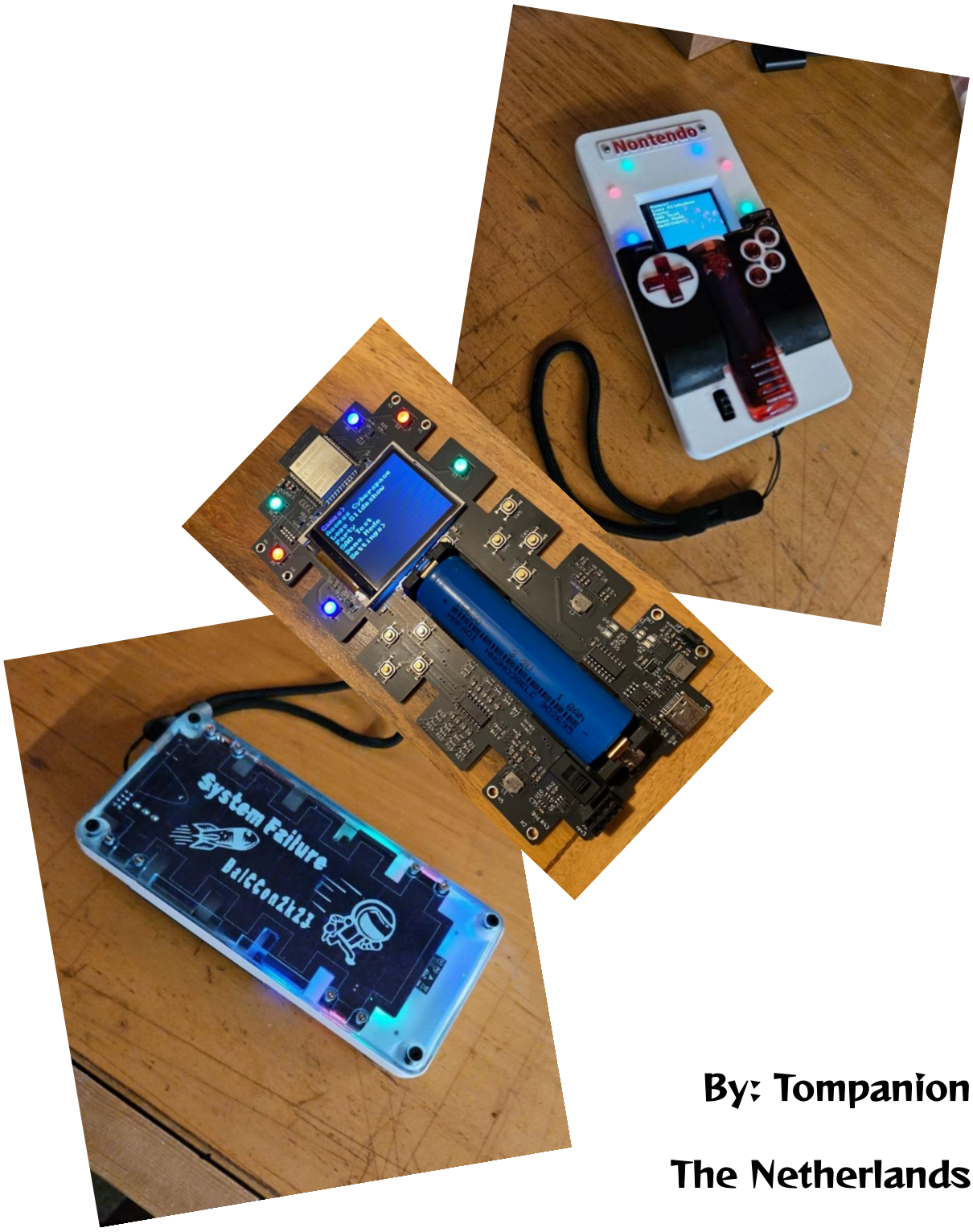
3D printable vintage case for the

BCD-0027

With a nod to an ancient Nintendo ;-)



By: Tompanion

The Netherlands

Contents

1 Materials used for printing and constructing

Filaments used (FDM Printer: Voron 2.4-350)

- Top Cover: Amazon Basics PLA White (need to print in PLA because threaded heat inserts are used).

Used a resin printer for all other parts to get maximum print quality.

1.1 Resins used (SLA Printer: Anycubic Photon Mono X 6K)

- Black parts:
  - Elegoo Water Washable Photopolymer Resin, 1/1 mixture of Black and Smokey Black (The mixture produces better and stronger results than the components alone).
- Red parts:
  - Elegoo Water Washable Photopolymer Resin, Red.
- White parts (except top cover)
  - Elegoo Water Washable Photopolymer Resin, White
- Blue parts (only bottom cover)
  - Elegoo Water Washable Photopolymer Resin, Red

1.2 Finishing of transparent components

The transparent components (red and blue) are sanded, polished and lacquered to give the appearance of being made of glass.

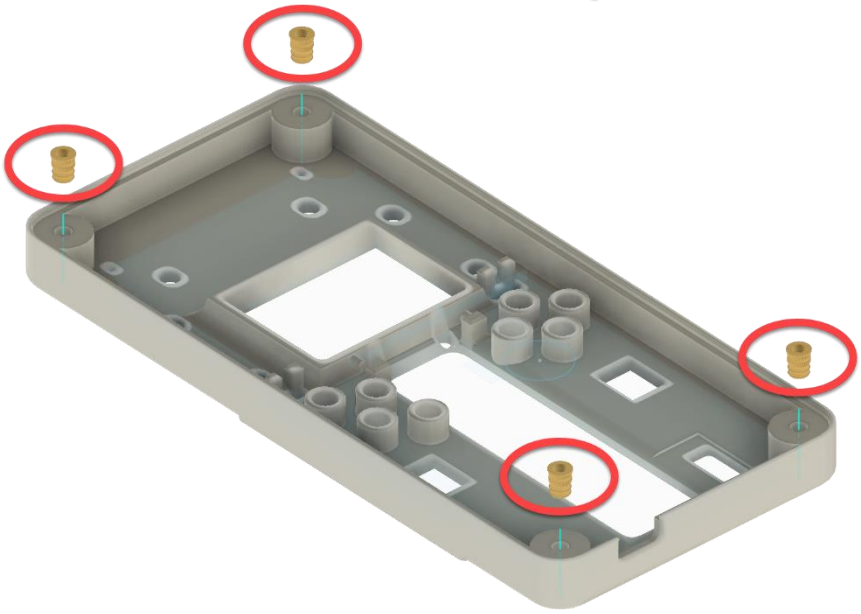
1.3 Required mounting materials such as heat inserts, nuts and bolts.

- 4 – M3 heat inserts
- 4 – M3x10mm zinc plated steel Hex Drive Flat Head Screw
- 10 – M2x7mm zinc plated steel socket head screw
- 8 – M2 zinc plated steel hex nut

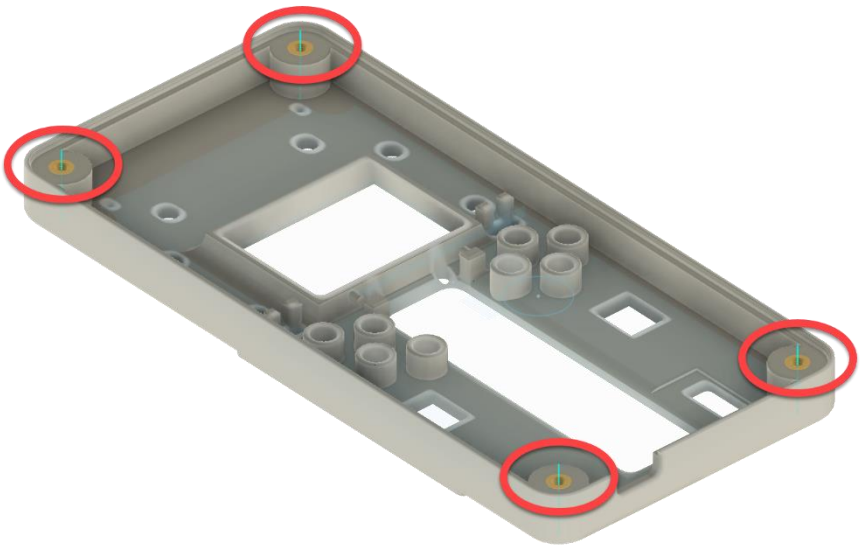
2 Exploded view

3 Building instructions

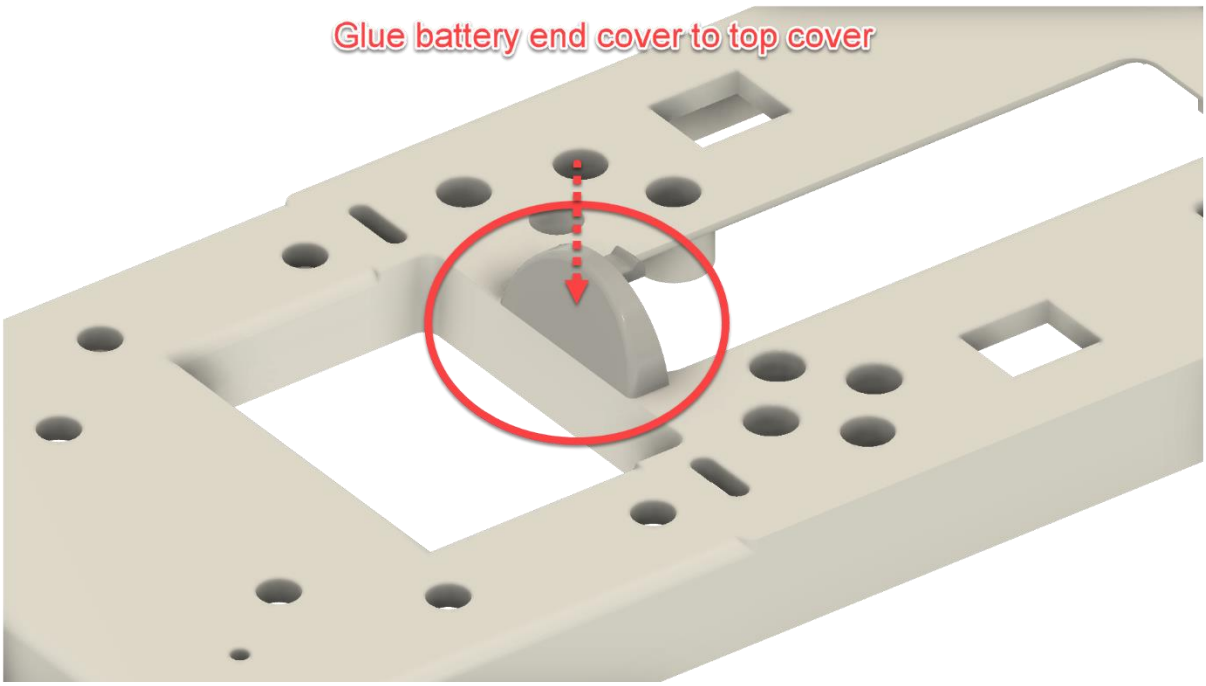
Melt the M3 heatinserts in top case



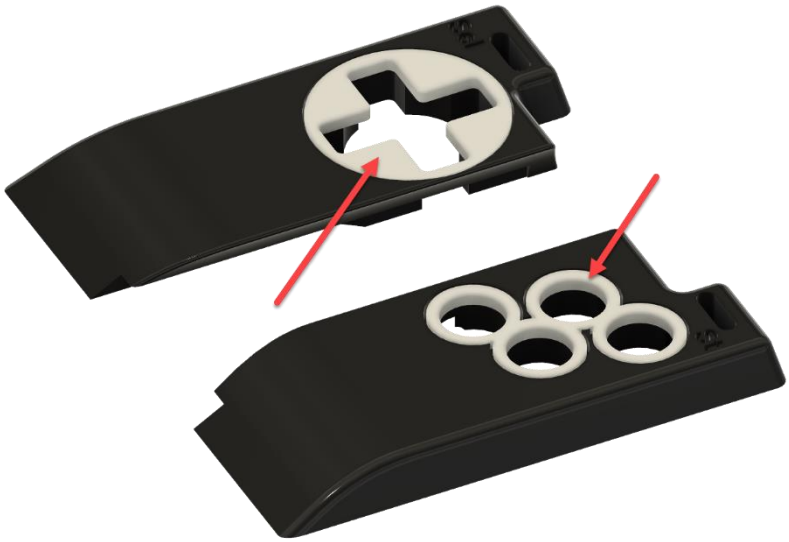
Heat Inserts placed



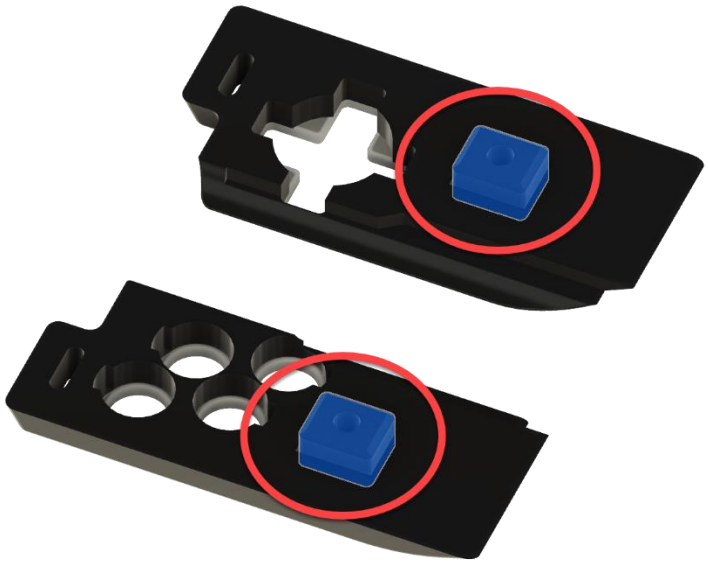
Glue battery end cover to top cover



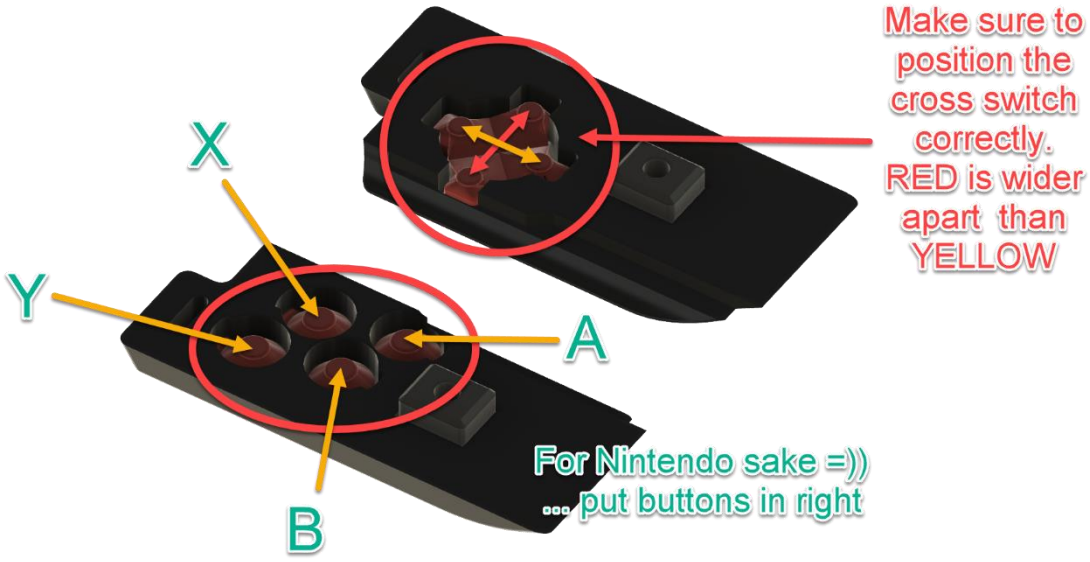
Glue white inlays to switch covers. (Make sure not to leave any spilled glue in the space reserved for the switches)

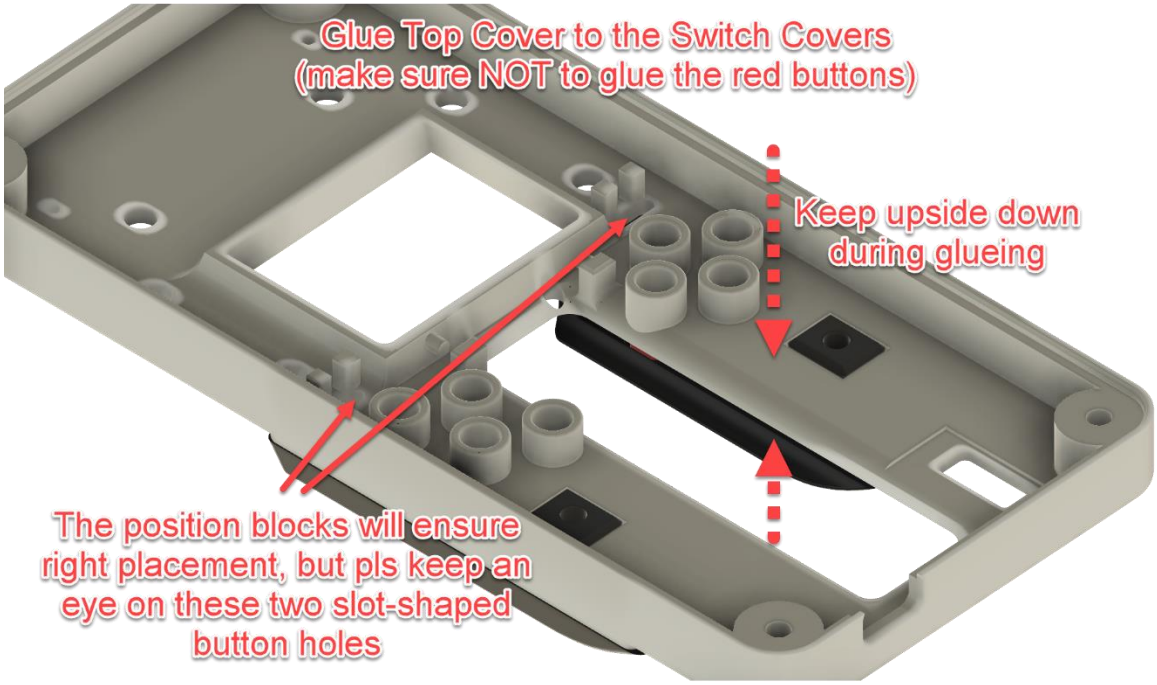


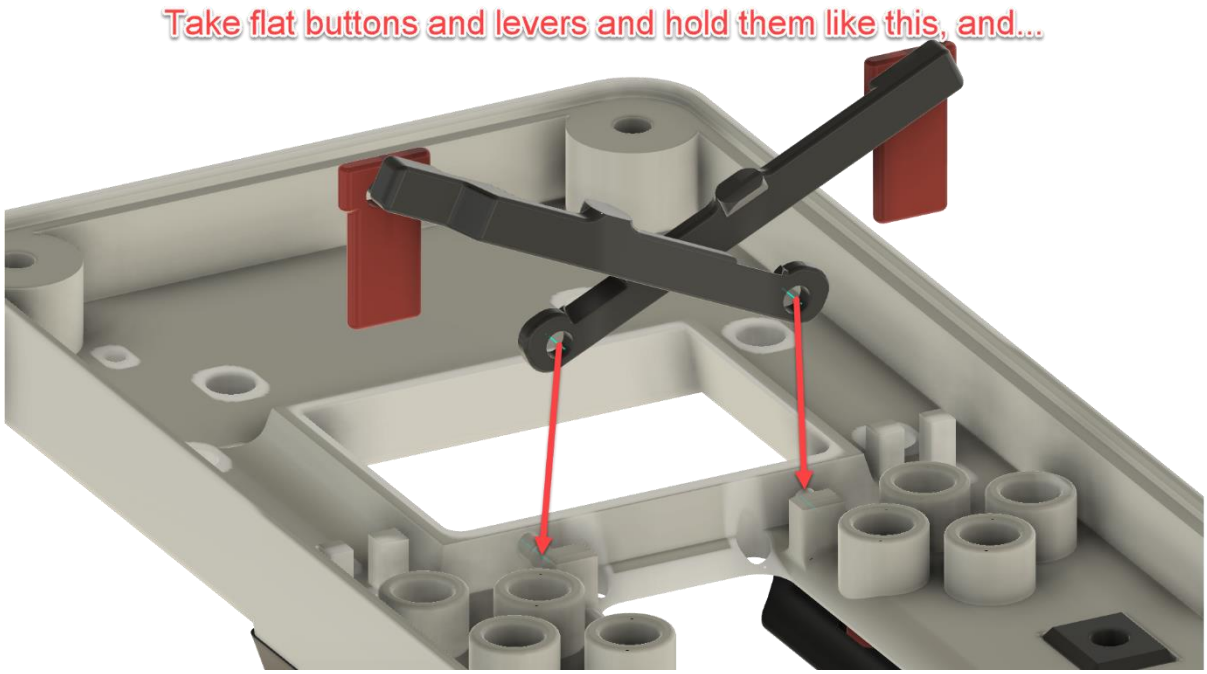
Glue Position Blocks in the Switch Covers

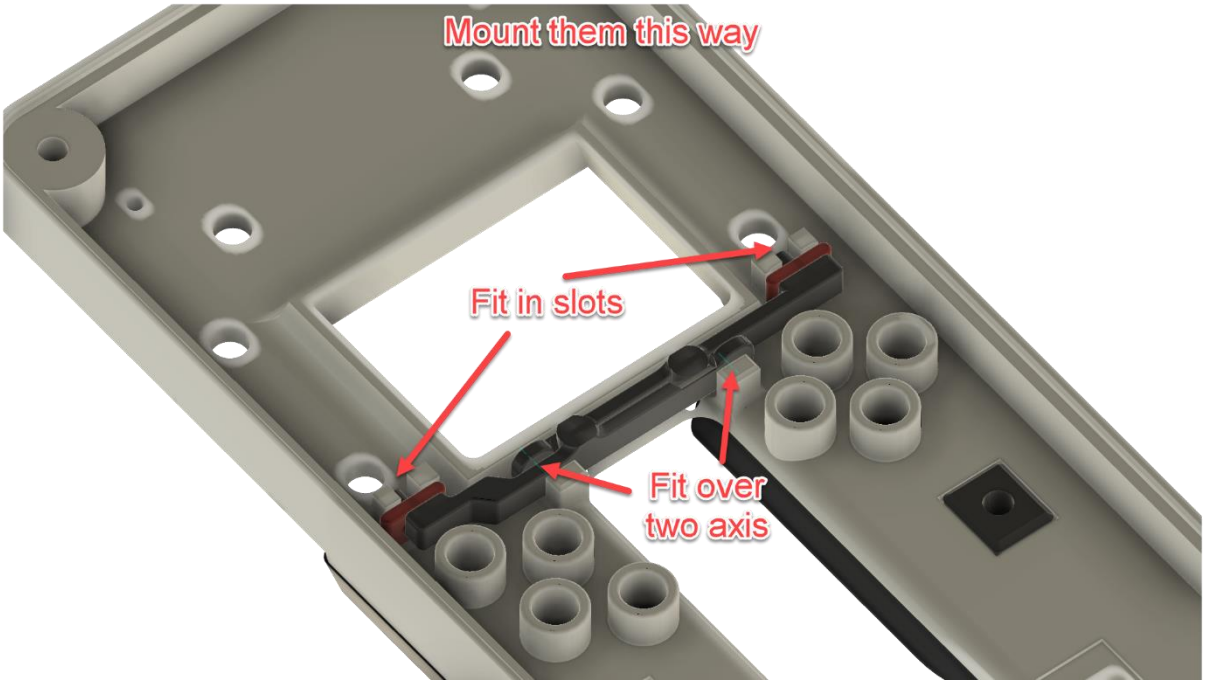


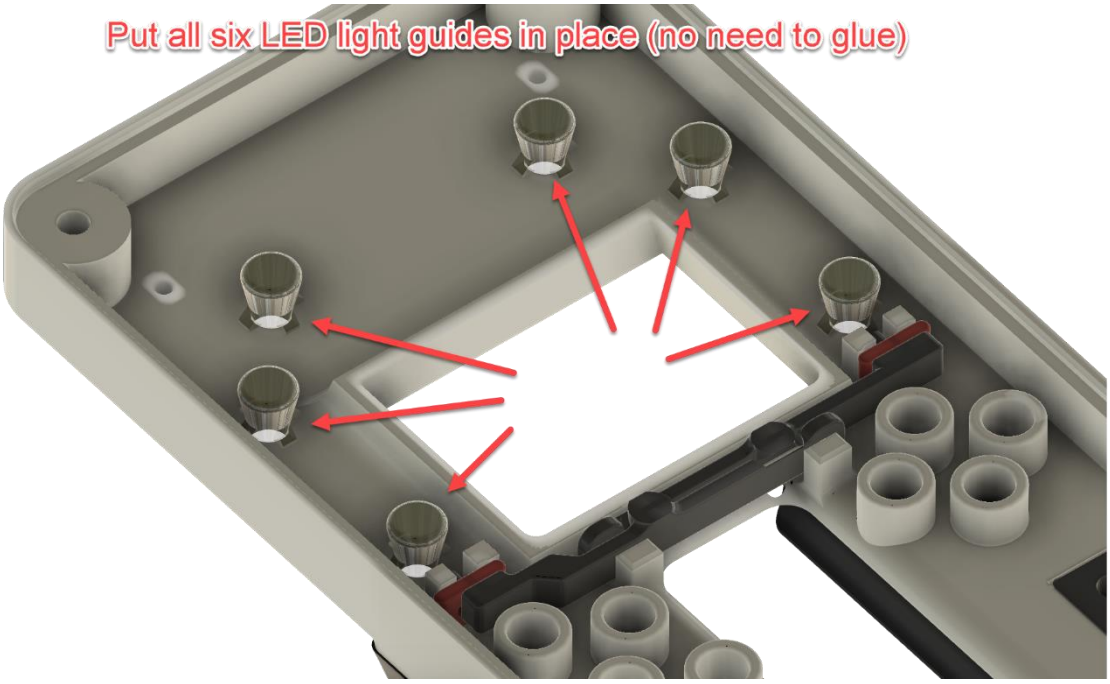
Put Red Switches in place
(DON'T glue and mark position of cross shaped switch)




Glue Top Cover to the Switch Covers
(make sure NOT to glue the red buttons)
Keep upside down
during glueing
The position blocks will ensure
right placement, but pls keep an
eye on these two slot-shaped
button holes


Take flat buttons and levers and hold them like this, and...

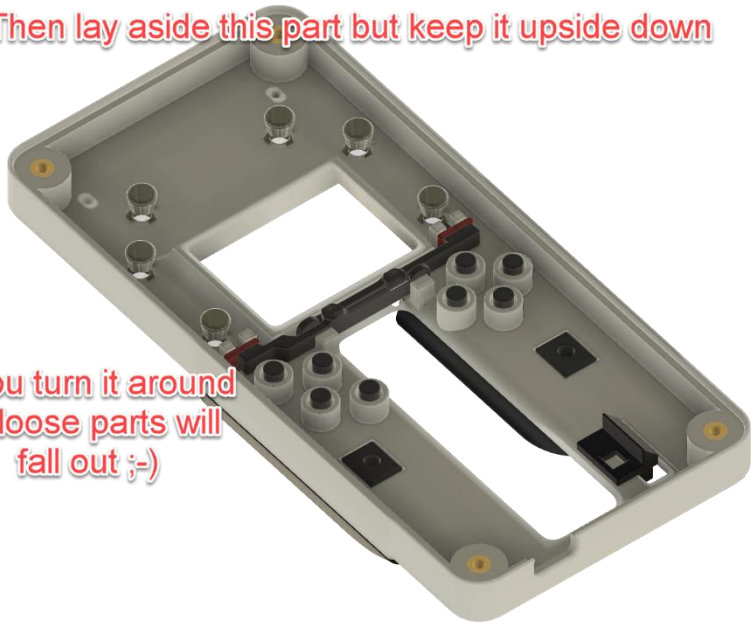

Mount them this way
Fit in slots
Fit over
two axis


Put all six LED light guides in place (no need to glue)


Put eight button rods in place (DON'T glue)

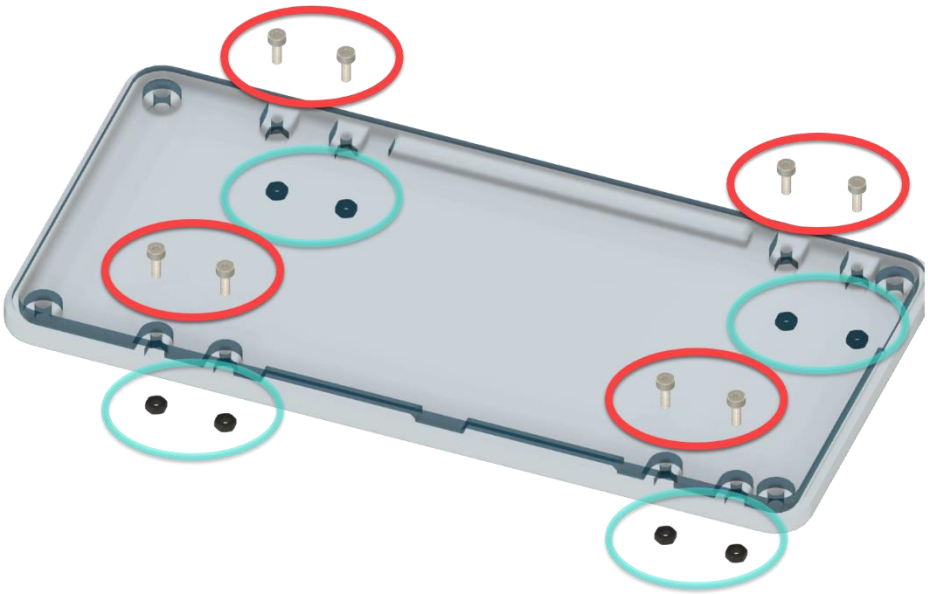

Put On-Off switch button in place (DO NOT glue)
Pls remember you need to position the hole over the switch when mounting the bottom plate with electronics

Then lay aside this part but keep it upside down

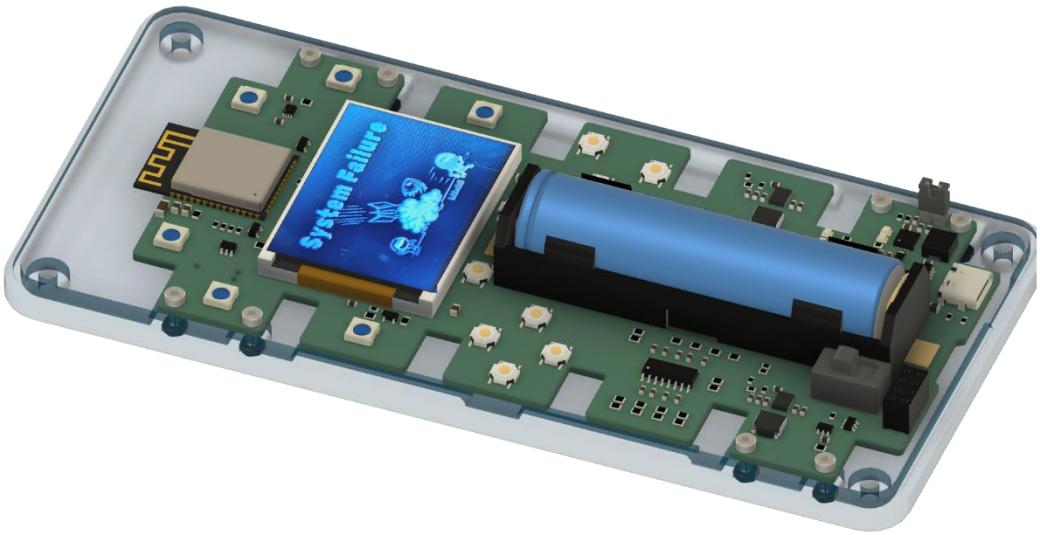


If you turn it around
all loose parts will
fall out ;-)

Take bottom cover, 8x M2x10 hex bolt and 8x M2 hex nut

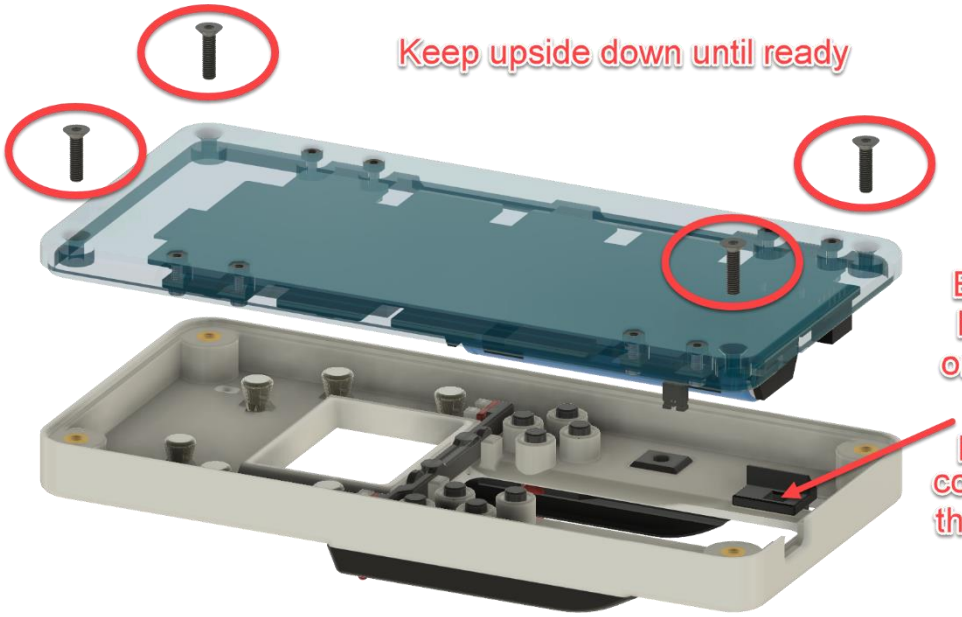


Screw electronics to the bottom plate with the 8 bolts and nuts



Screw ths bottom cover with electronics to the top cover

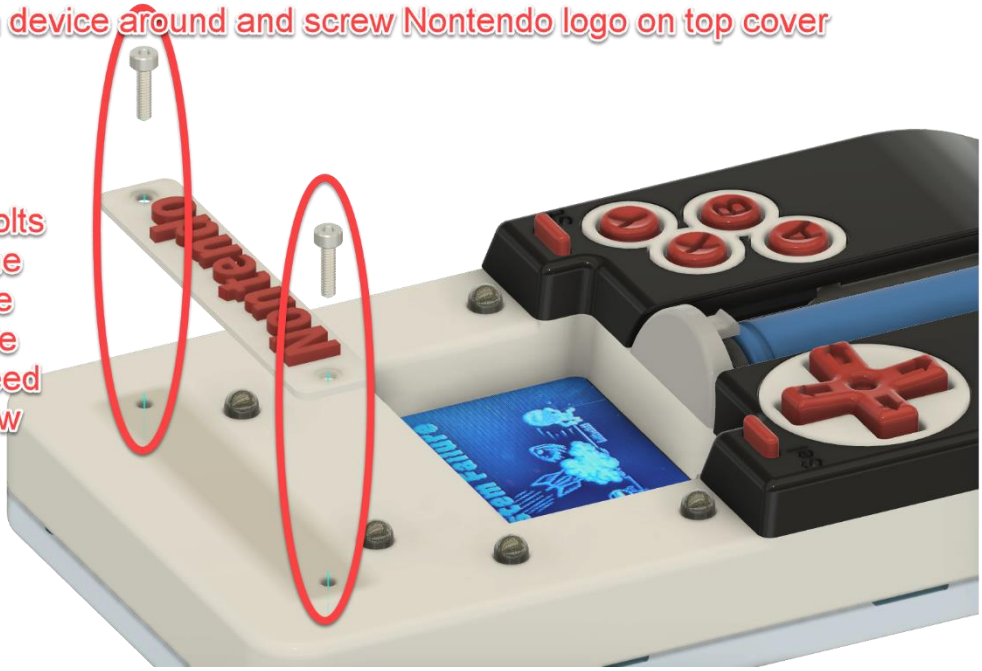
Keep upside down until ready



Ensure the hole in the on/off switch knob is positioned correctly over the switch on the PCB

Turn device around and screw Nontendo logo on top cover

Screw the bolts right into the plastic hole using a little force. No need to tap screw threat



Carefully slide the battery cover into place until the locking spring clicks into the lock hole

And you're all done...
Have fun!!!

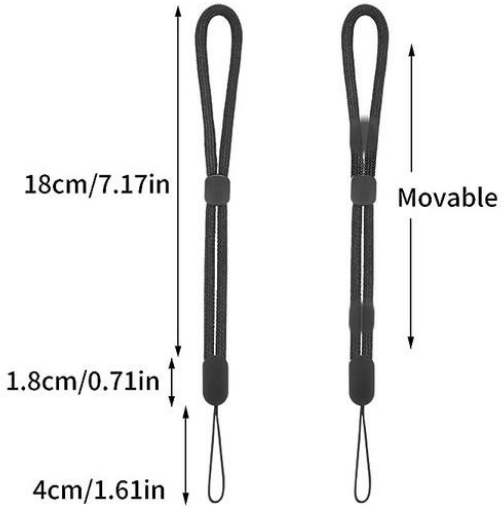
4 Tip: Two ways of making a two colour 'Nontendo' logo

5 Nintendo style hand bracelet

If you like the hand bracelet, you can order it here:

https://www.amazon.nl/dp/B09PG46FR1?psc=1&ref=ppx_yo2ov_dt_b_product_details&language=en_GB

There are no holes for the hand bracelet in the original design. You will have to drill them, yourselves.



Have FUN···!!!