

This charging bay consists of 5 parts.

BOM:

HT16K33_8X8 Dot Matrix Module

<https://www.aliexpress.com/item/1005010303702404.html>

1.28" LCD TFT Screen for Arduino RGB IPS Color Screen SPI Bare Round Screen -GC9A01

<https://www.amazon.se/dp/B0DM569VDT>

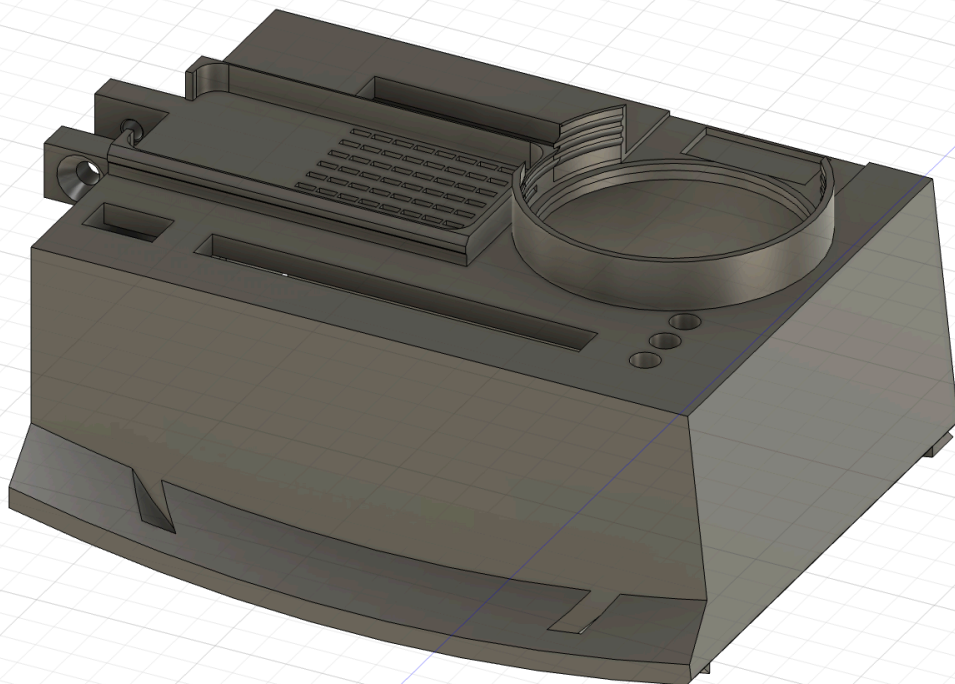
Led strip

WS2812B - 1 meter 144 led IP30

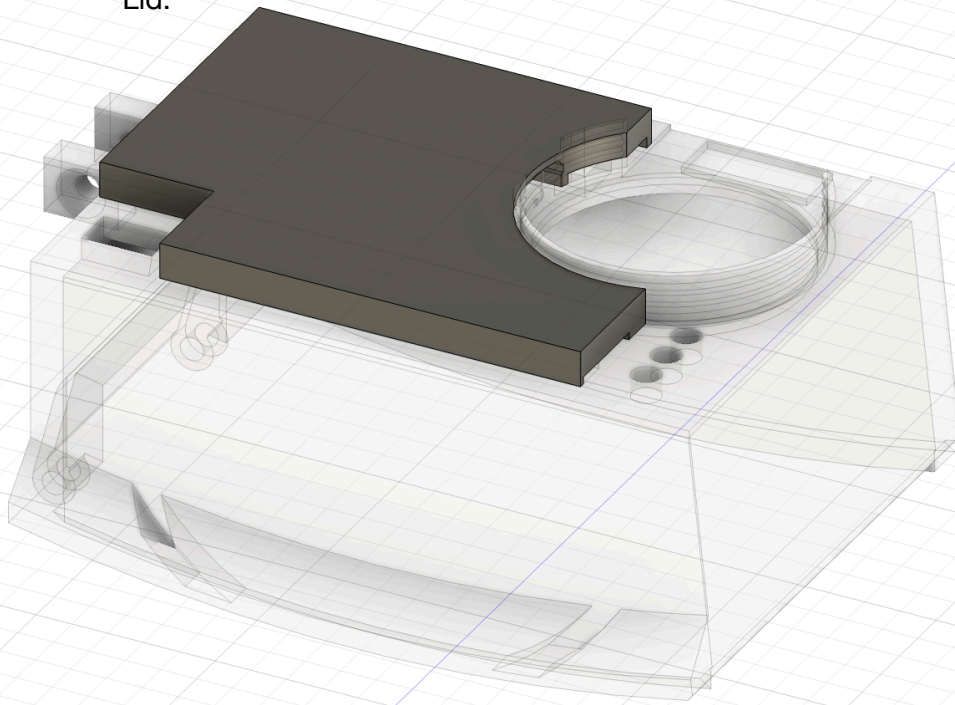
<https://www.aliexpress.com/item/1005009613294814.html>

You need to cut one strip with 8 diodes and one strip with 5 diodes.

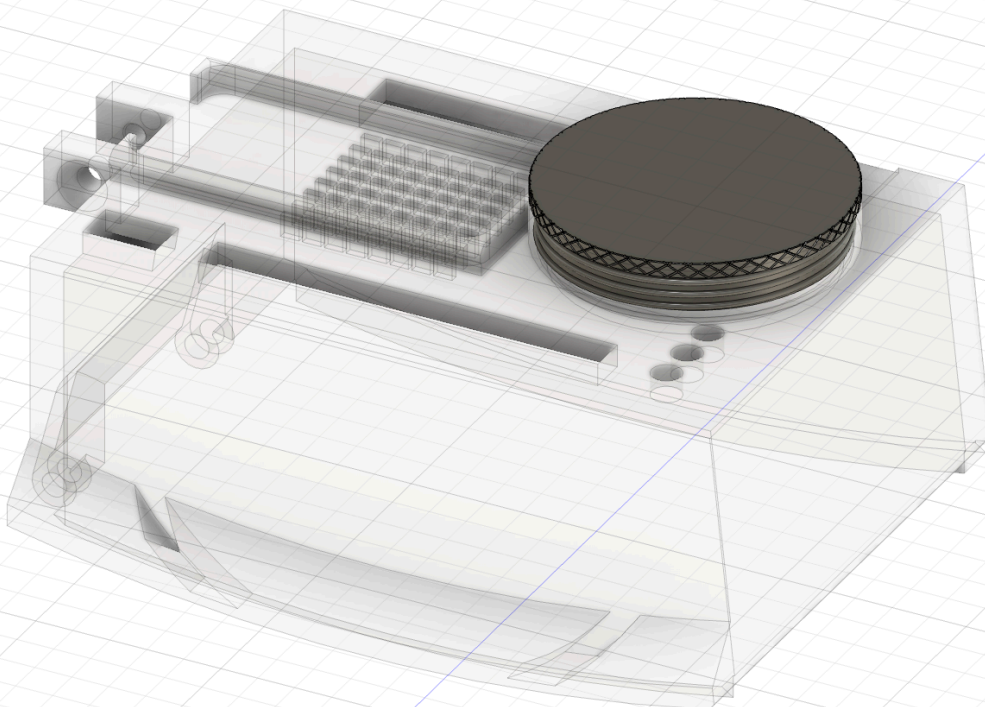
The first part is the charging bay itself



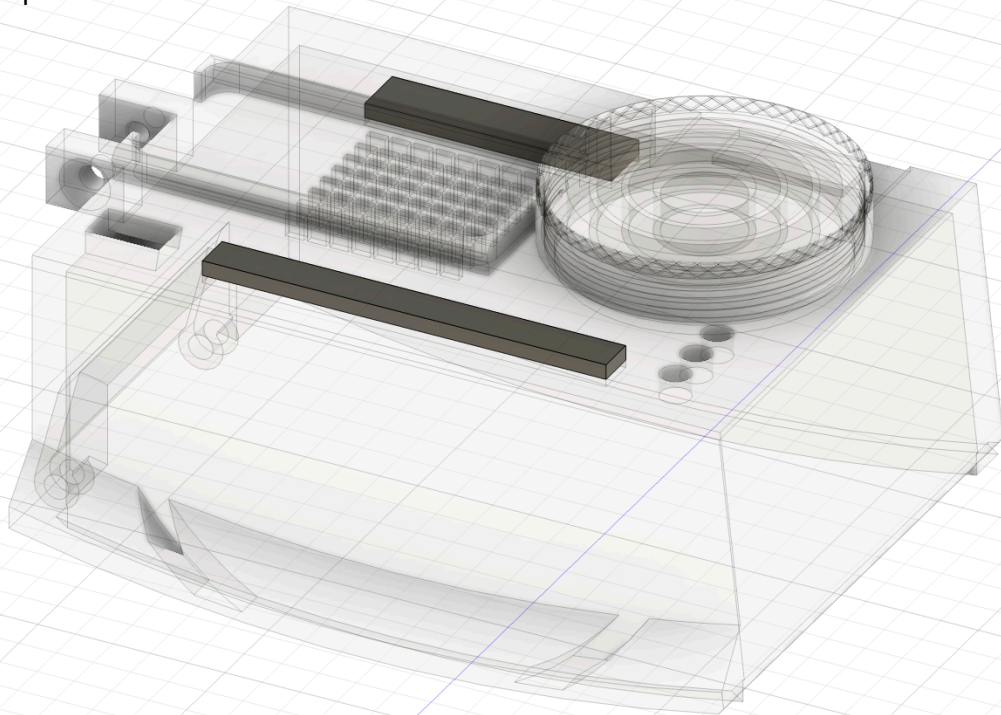
Lid:



Screwcap:

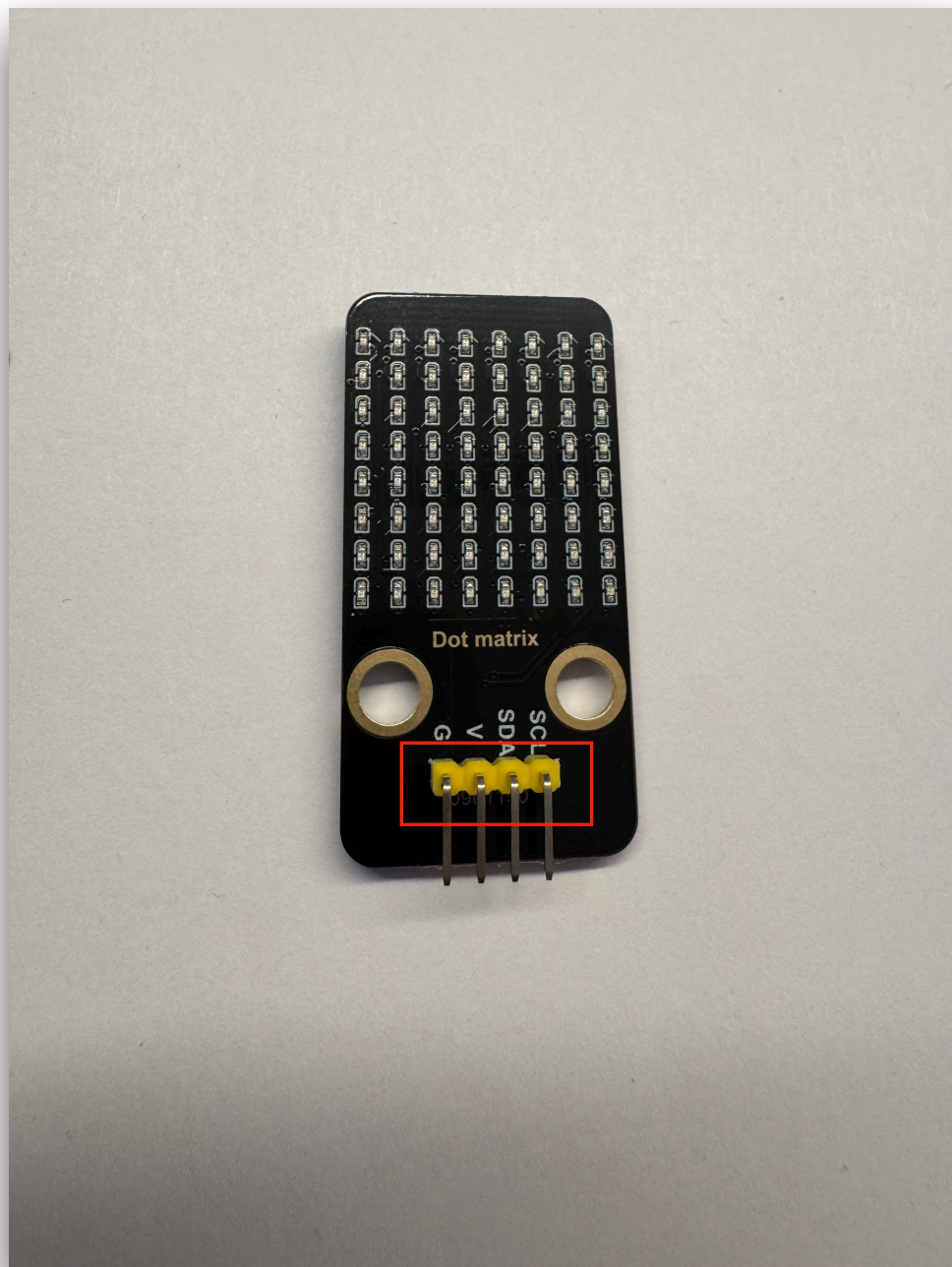


Transparent windows

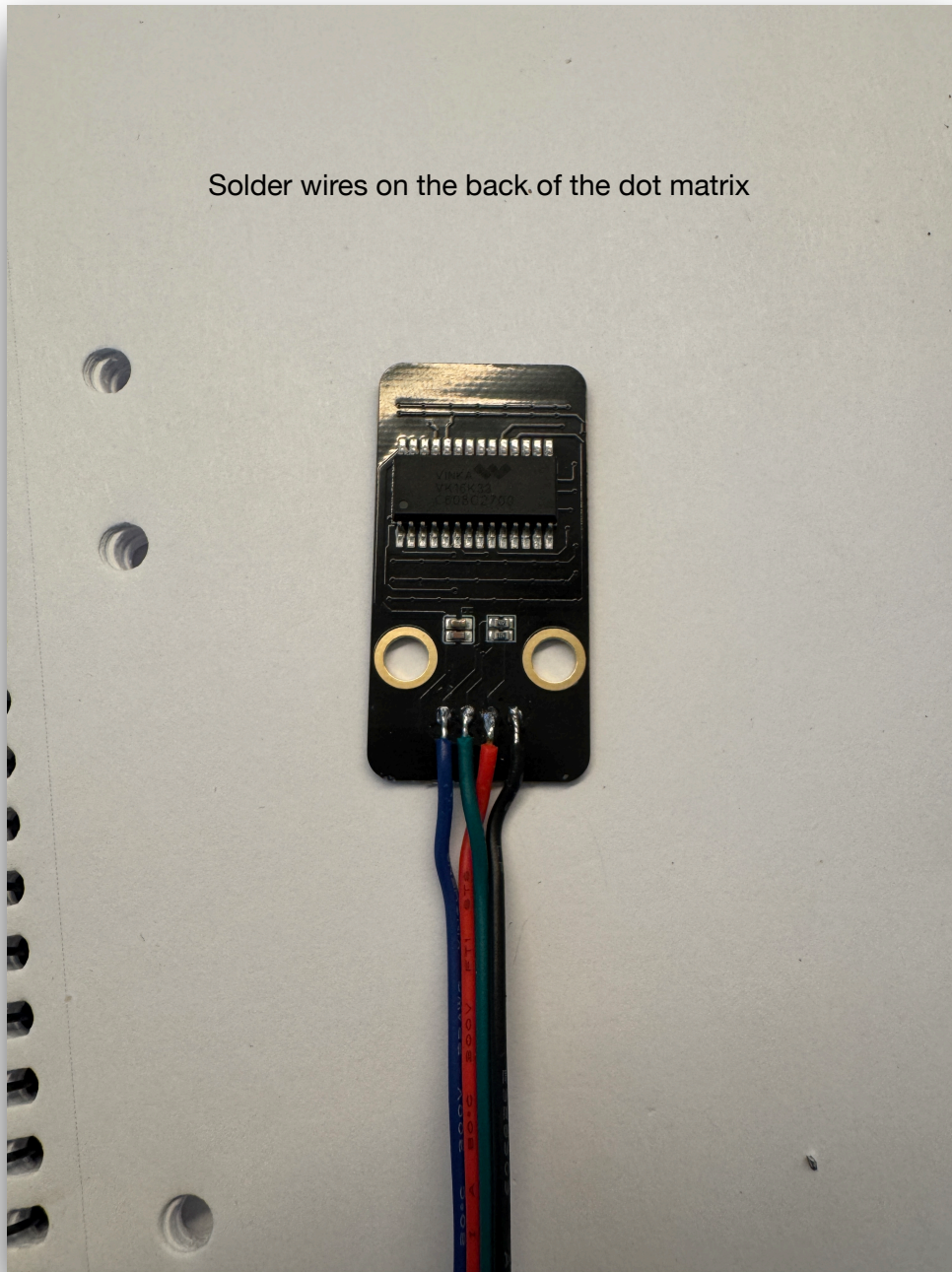


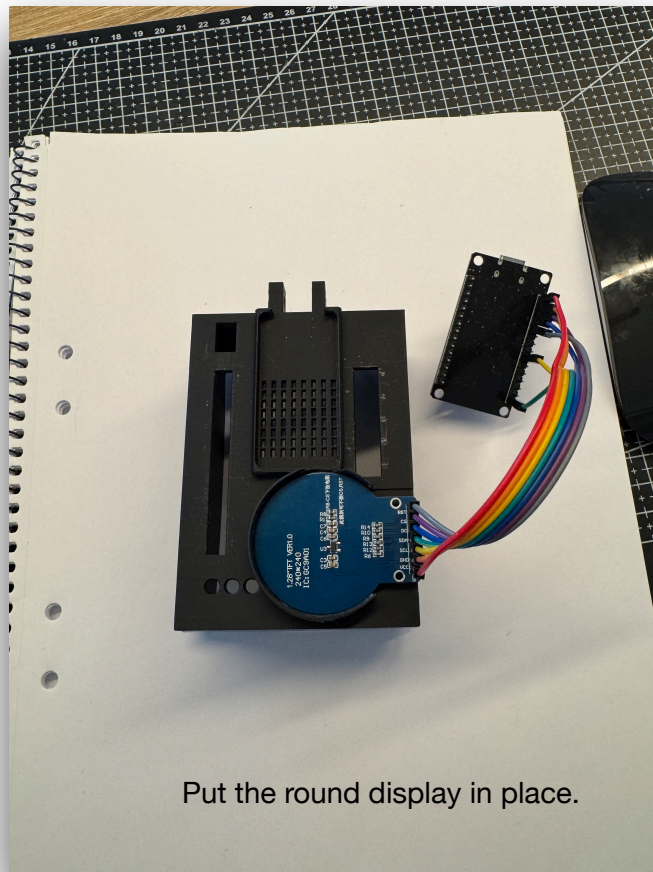
Step-by-step

Start off by desoldering the pins from the dot matrix

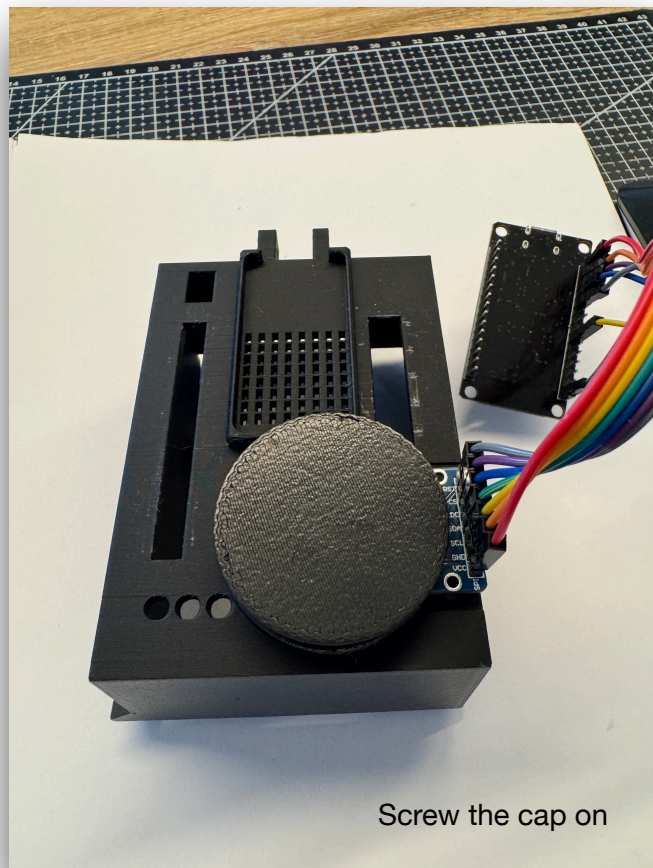


Solder wires on the back of the dot matrix

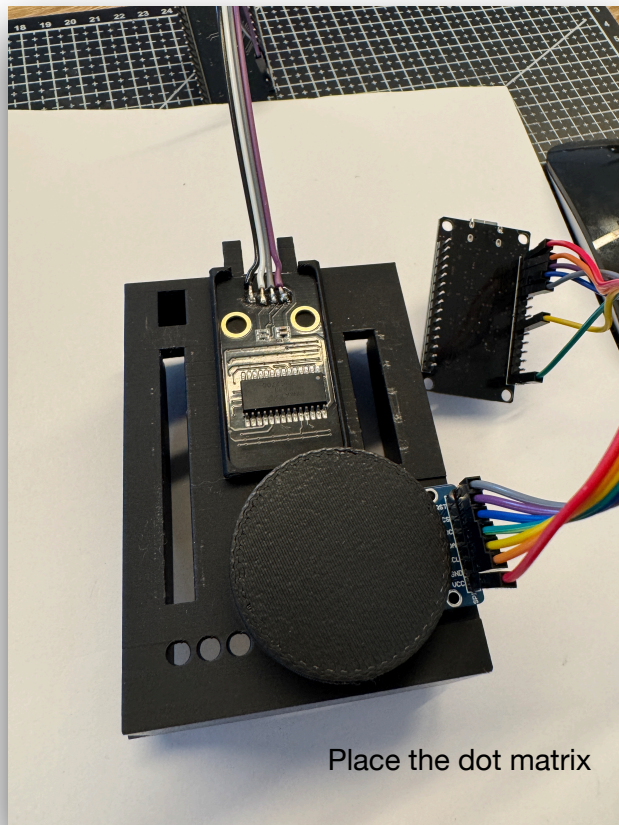




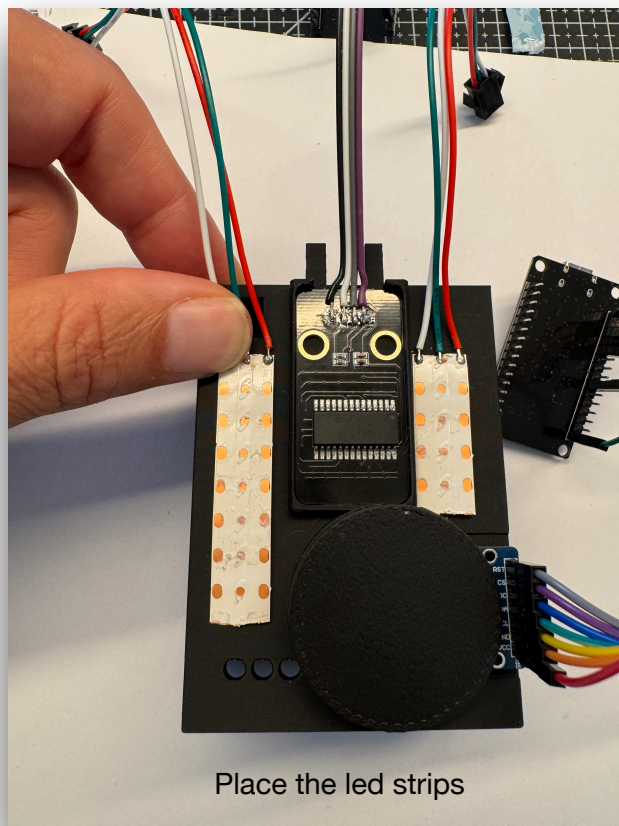
Put the round display in place.



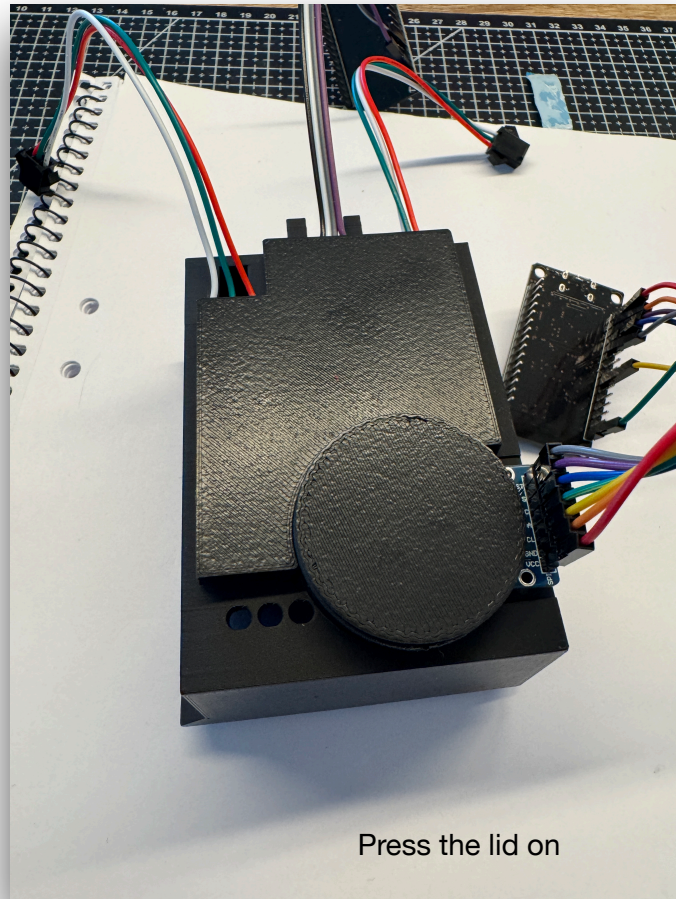
Screw the cap on



Place the dot matrix

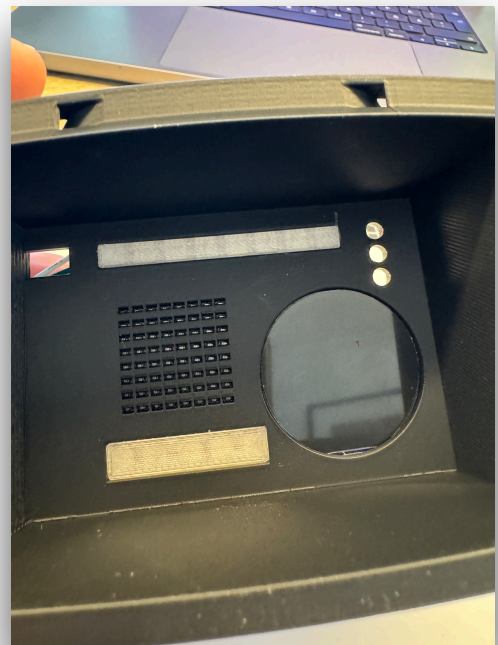


Place the led strips



Press the lid on

Press the diffusers in place.



DONE

Recommended printer settings:

ChargingBay, lid and screwcap:

Layer height: 0.16

Walls: 2

Infill: **Gyroid** 15%

If you are using Bambu Studio you could just choose "0,16mm High Quality @BBL P2S" or equivalent.

Diffusers:

Layer height: 0.16

Walls: 2

Infill: **Honeycomb** 15%