

Mystic Amulet



MYSTIC AMULET BUILD GUIDE

Version 28.10.2025

INTRODUCTION:

Overview to build the mystic amulet.

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INTRODUCTION

PART PRINTING GUIDELINES

We recommend you follow these Guidelines.

3D PRINTING PROCESS:

Fused Deposition Modeling (FDM) or Stereolithography (SLA)

MATERIAL:

PLA / Resin

LAYER HEIGHT:

Recommended: 0.1mm

EXTRUSION WIDTH:

Recommended: Forced 0.4mm

INFILL TYPE:

Linear

INFILL PERCENTAGE:

Recommended: 100%

WALL COUNT:

Recommended: 4

SOLID TOP/BOTTOM LAYERS:

Recommended: 5

SUPPORT:

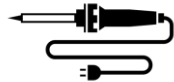
Support above Print Bed

OVERVIEW OF TOOLS

TOOLS YOU WILL NEED

You will need the following tools. You should also be familiar with them and know how to use them.

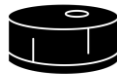
SOLDERING IRON



SCREWDRIVER



SOLDERING TIN



SCALPEL



STRING CUTTER



HOT-GLUE



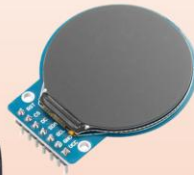
PARTS LIST

You can source your parts from Amazon, AliExpress, eBay or from your local parts store.

Bill of Material (BOM):



(1x) ESP32-S3-Zero (4MB PSRAM)



(1x) Display GC9A01



(9x) 5cm 0.14 mm² Wire



(1x) Push Button 6x6mm



(3x) Heat Set Inserts M2x4mm



(3x) Screws M2x8mm

Optional (USB-C necklace):

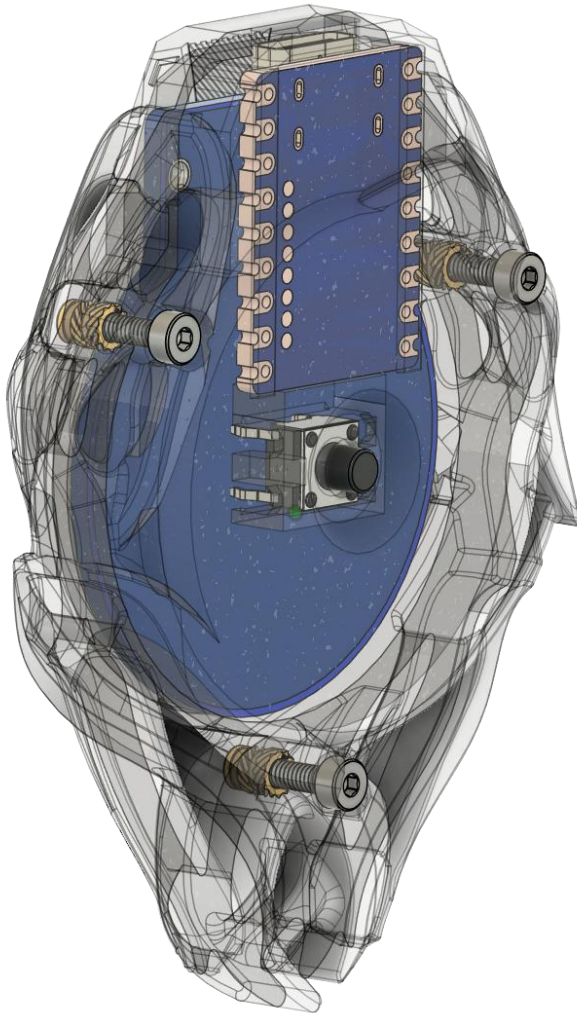


(2x) 30cm 1.50mm² Silicone Wire black



(1x) USB-C socket + plug
with housing each

ELECTRONICS

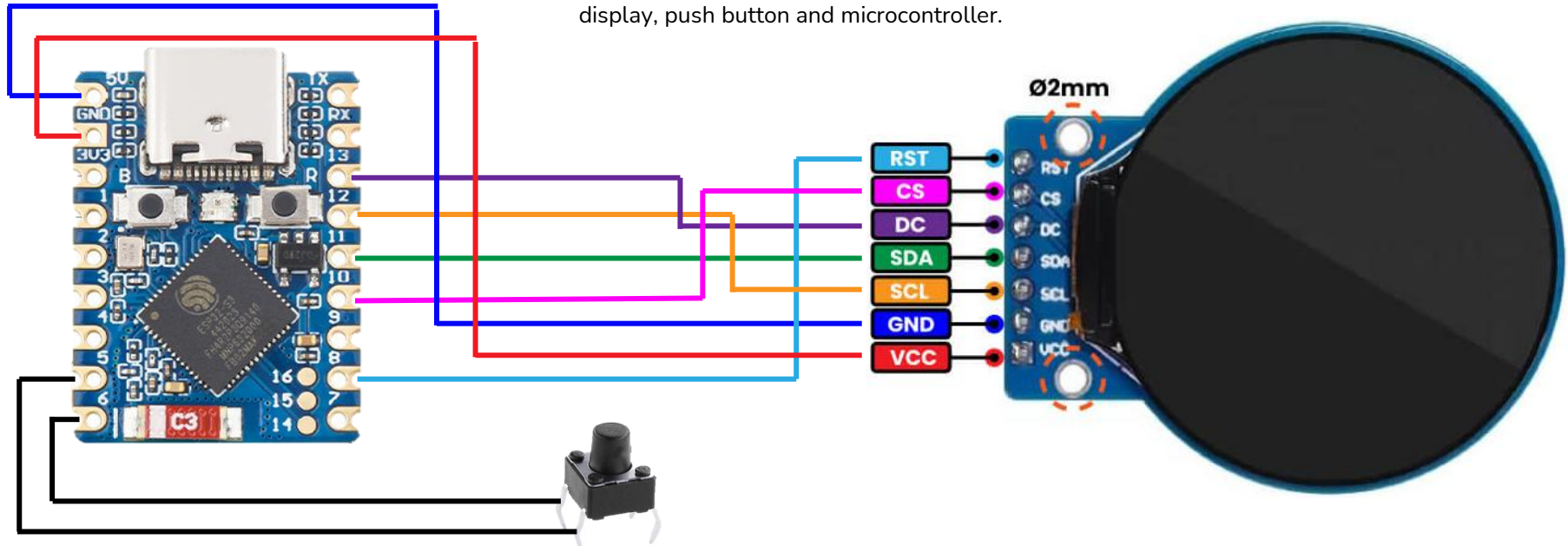


ELECTRONICS

ELECTRONICS

WIRE:

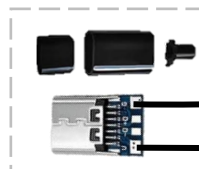
Use 0.14-0.25mm² wire to connect display, push button and microcontroller.



NECKLACE WIRE:

Use 1,5mm² silicon wire to connect the USB-C jack with the plug. This cable functions as a necklace for wearing the amulet. To do this, you put your head through the two individual strands and connect the power bank behind your back. You can then carry it comfortably in your trouser pocket.

USB-C Socket

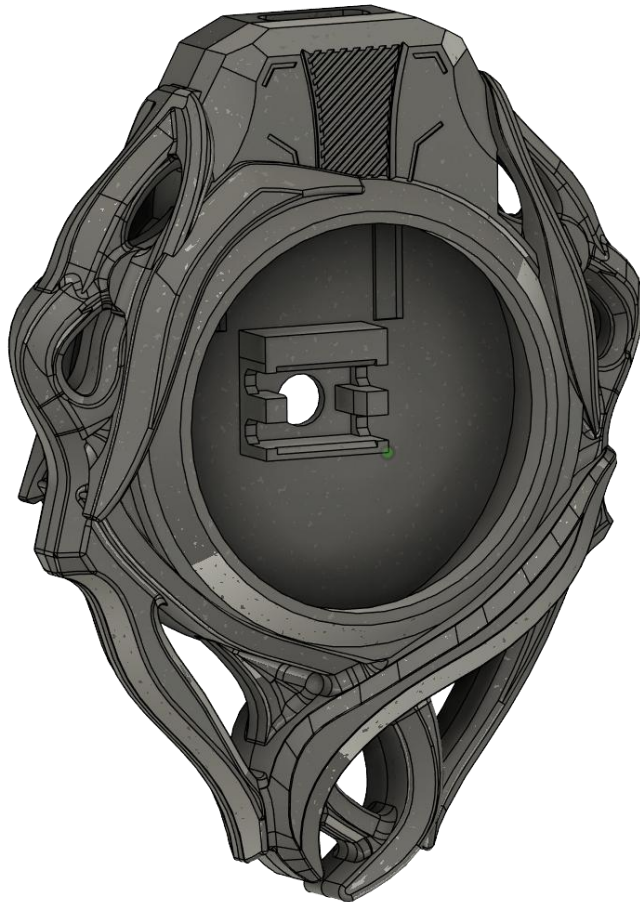


30 cm

USB-C Plug

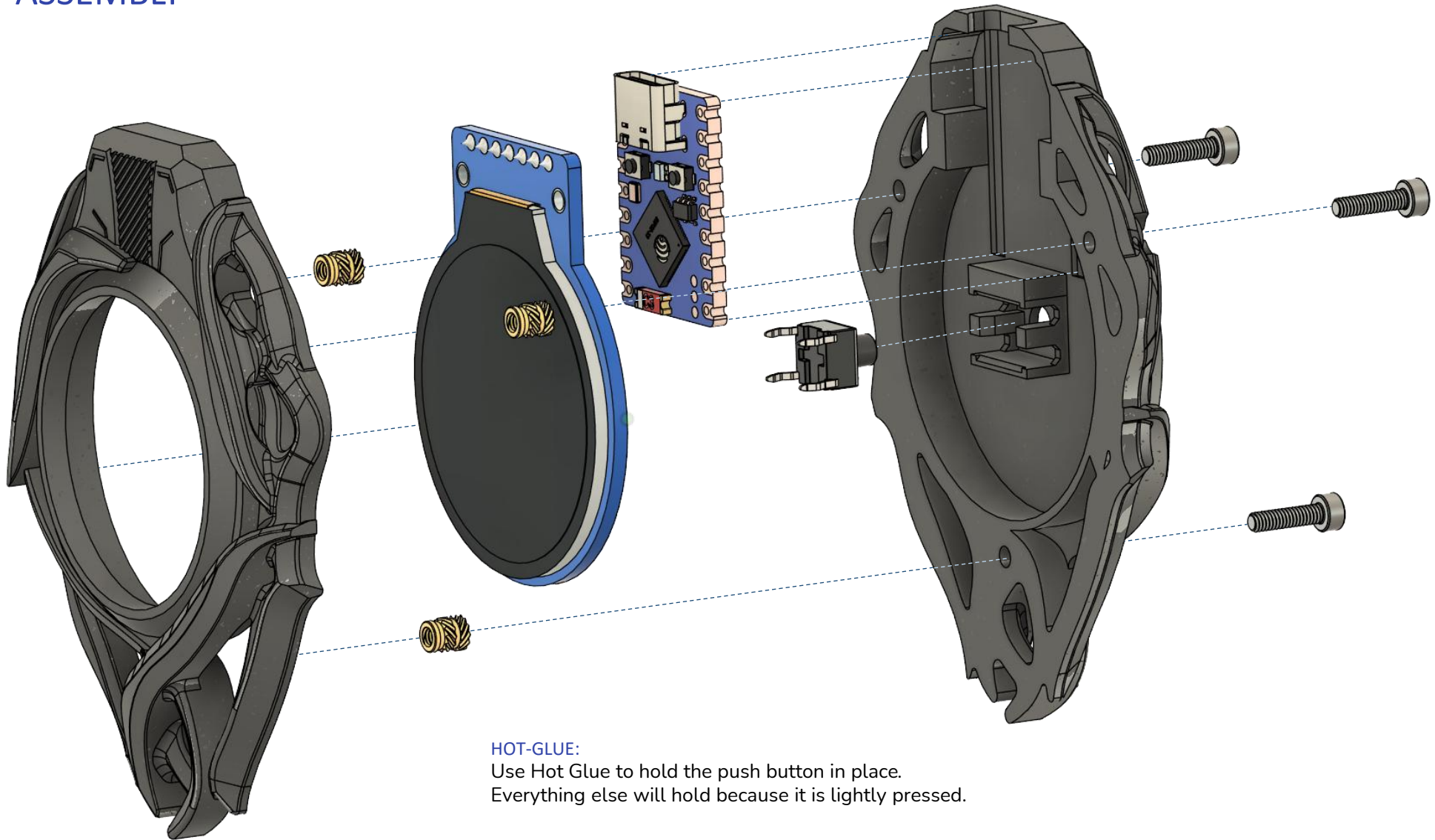


ASSEMBLY



ASSEMBLY

ASSEMBLY



HOT-GLUE:

Use Hot Glue to hold the push button in place.
Everything else will hold because it is lightly pressed.

FIRMWARE



FIRMWARE UPDATE

FIRMWARE

ASSEMBLY COMPLETED! ... NEXT STEP: UPDATE FIRMWARE

This manual is designed to be a reference manual for the build process. Next step is to upload the firmware to PCB and start testing for its function.

You can find the firmware here:

The GitHub logo, consisting of the word "GitHub" in a bold, black, sans-serif font.

<https://github.com/flo199213/MysticAmulet>

Mystic Amulet

Enjoy your Mystic Amulet.

