



Before you begin, please check of all Parts and Tools needed are in Front of you.

Printed Parts:

6 Cover_Backpanel [] Light_Tunnel*[] 1 Baseplate

2 LeftPanel 7 Display_Frame

3 RightPanel [] 8 Display_Top

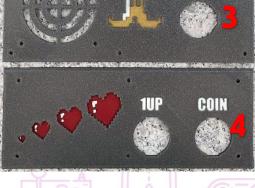
4 FrontPanel [] 9 Joystick_Button

5 Backpanel* [] 10 LightSign

*Backpanel_noHDMI or Backpanel_HDMI | Light_Tunnel Recommended if using Lightstrips to eliminate LightBleeding through Case.























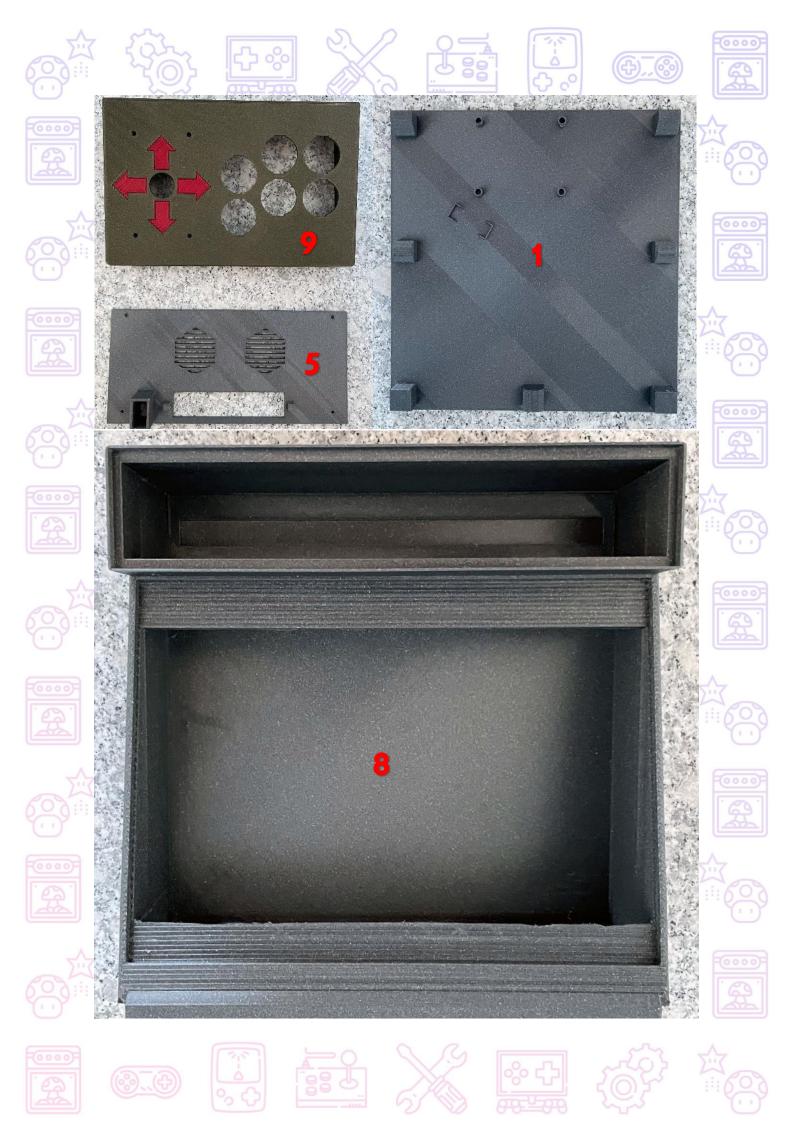


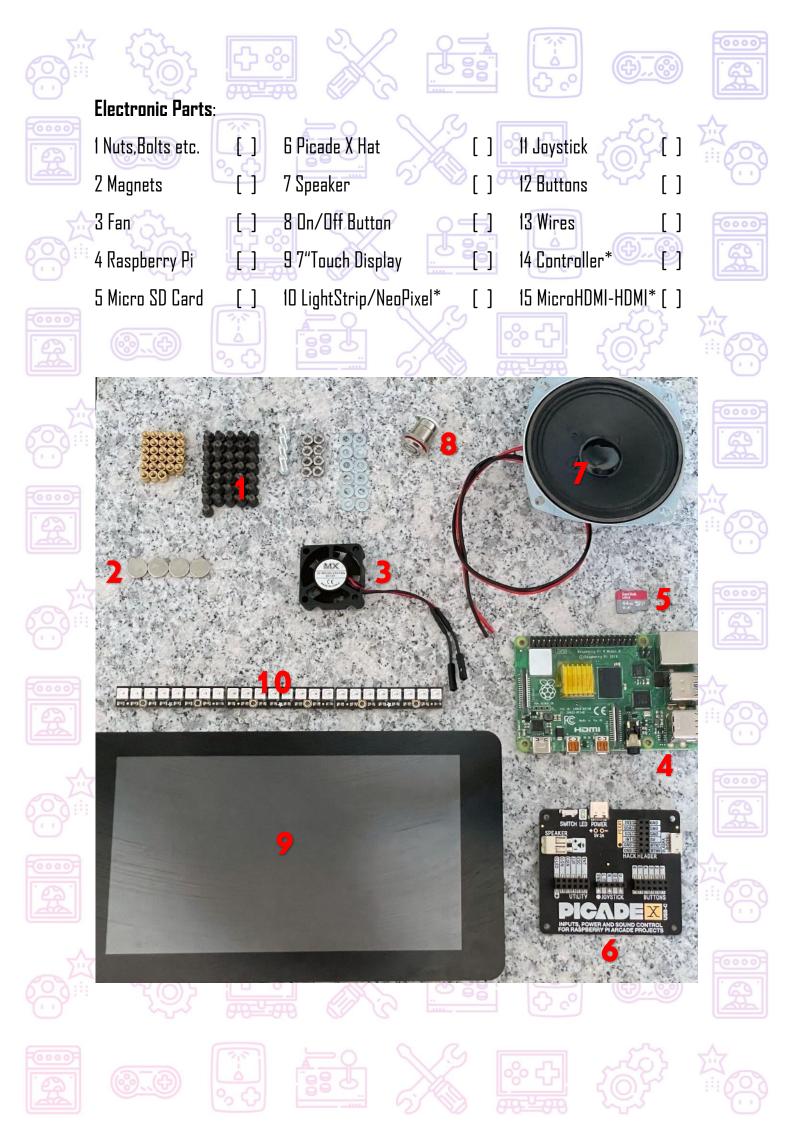




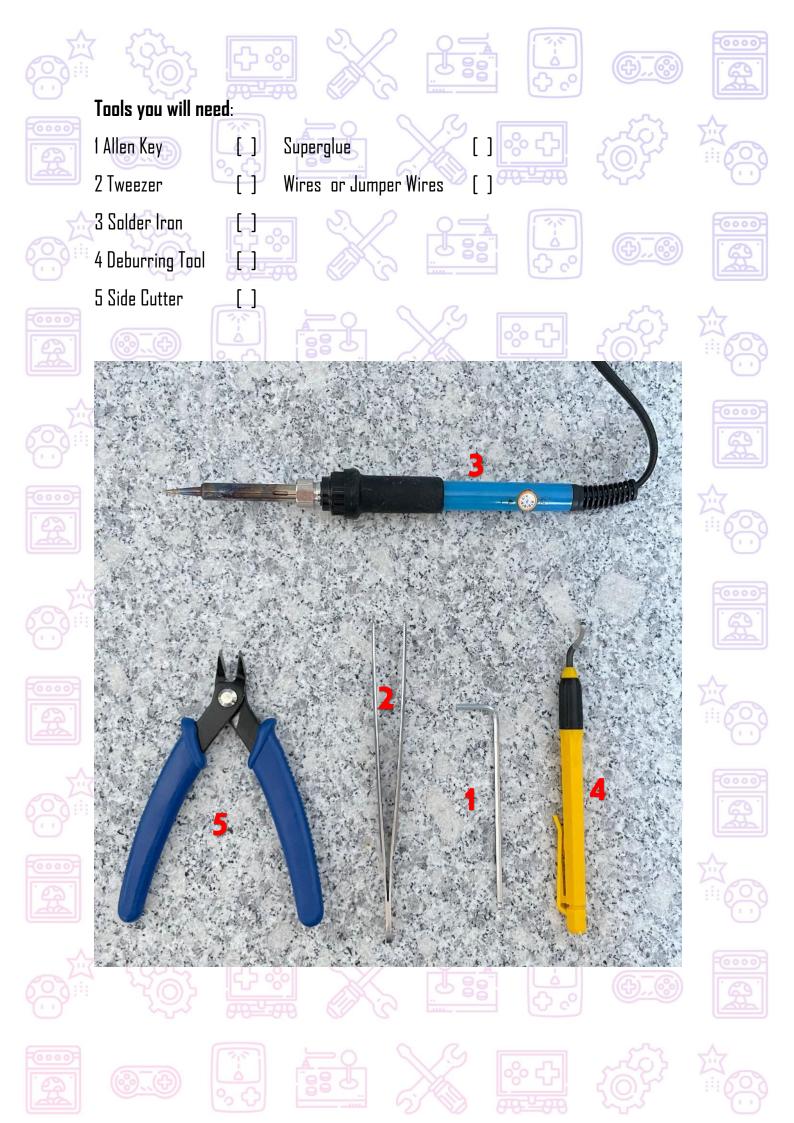


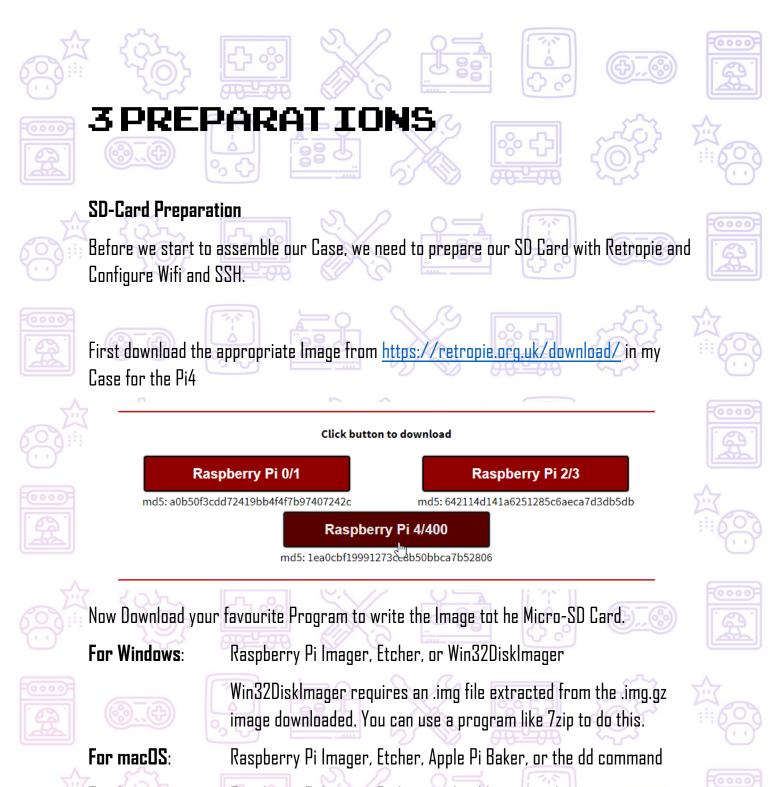






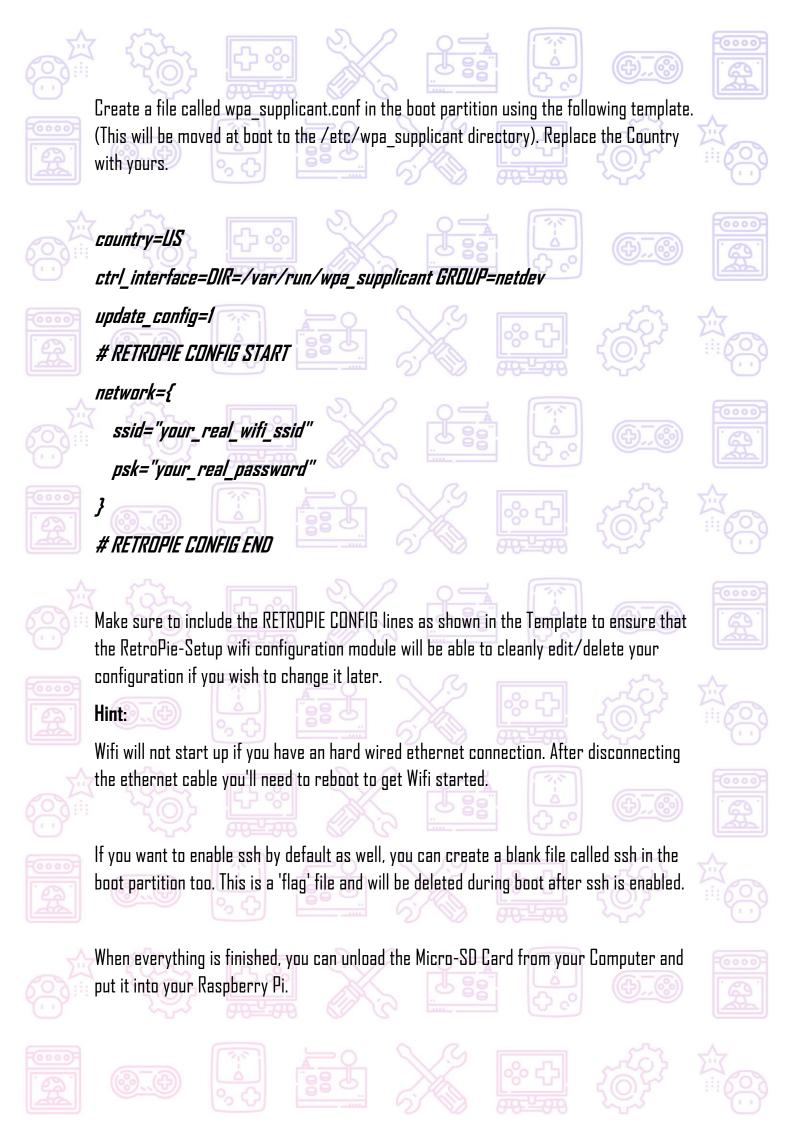






For Linux: Raspberry Pi Imager, Etcher, or the dd command

MacOS/Linux users can optionally extract the .img image from the downloaded .img.gz by using gunzip (macOS users can also simply double-click it)





Part 1 - Preparing the Printed Parts with Threaded Inserts

Before we start with the Assembly its neccessary to prepare our Printed Parts with the threaded inserts. So its time to fire up your solder iron and get those Inserts melted in.

We need the following Parts:

- Baseplate
- Back-Panel
- Joystick_Button
- Display_Top

First start with the Build Plate with a total of 15 inserts.











































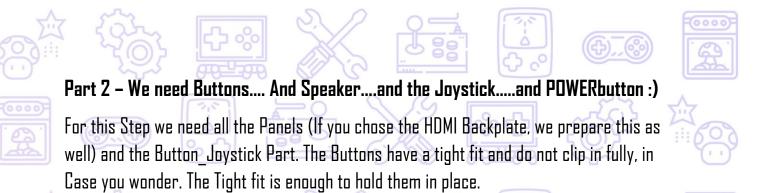












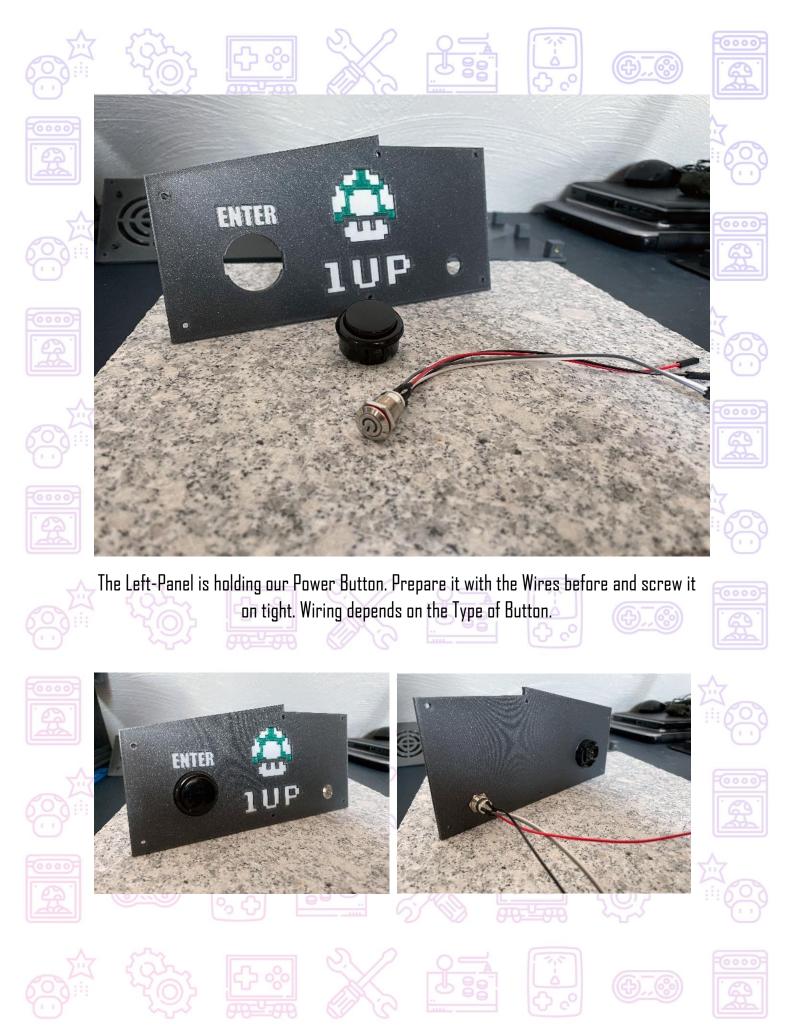




The Speaker Side needs 4 M3 Bolts, Washer and Nuts













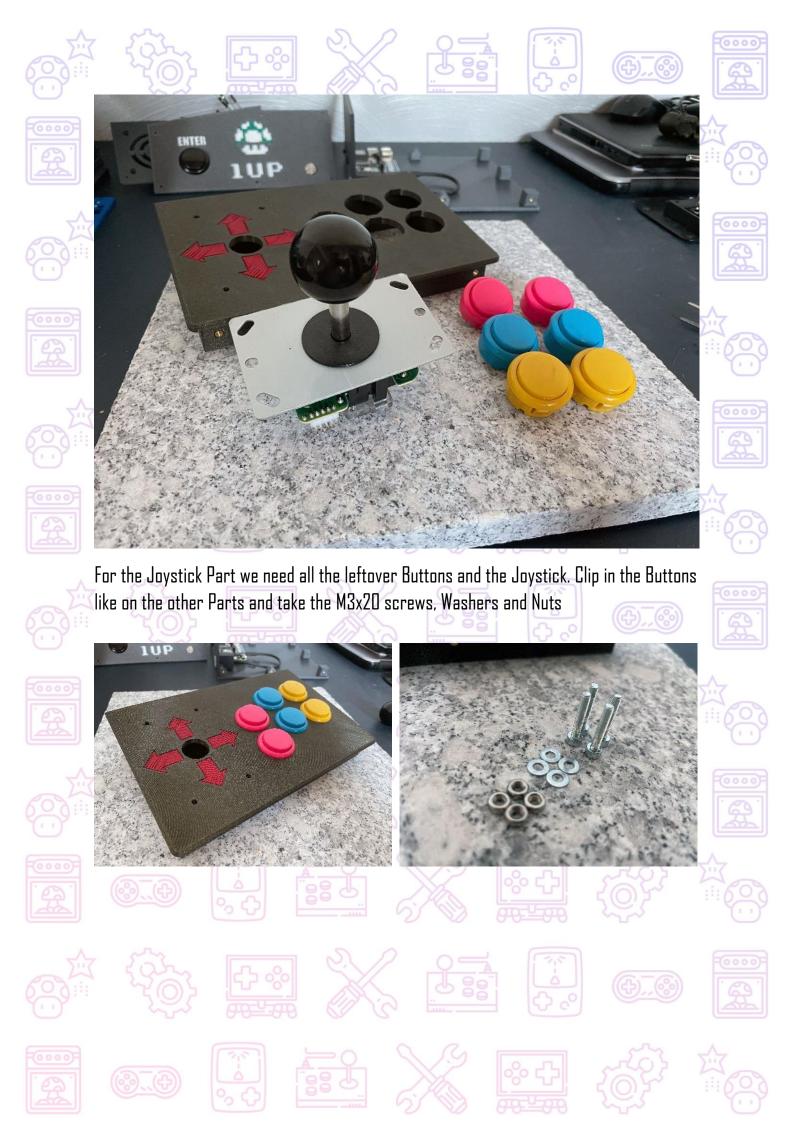




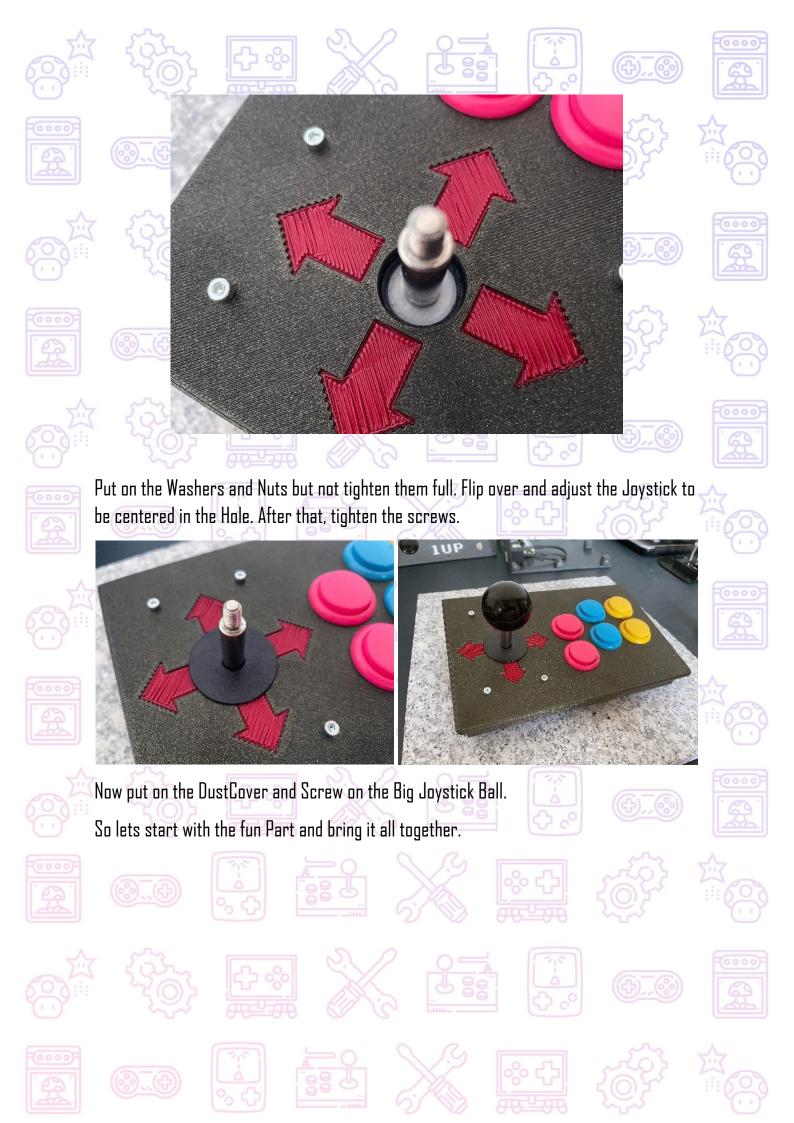




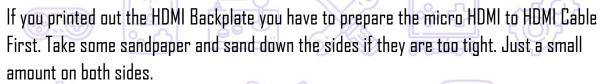










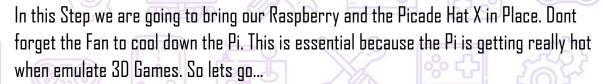










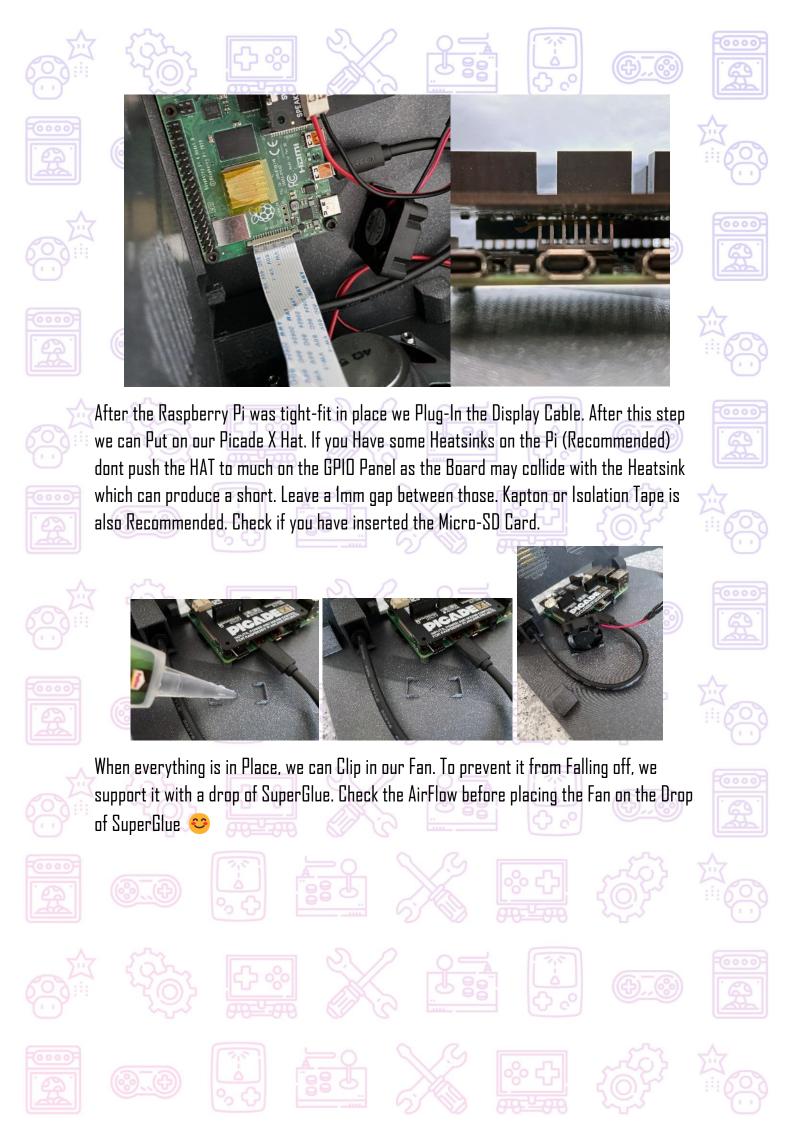






Before screwing the Pi anto the Baseplate, gently screw those M3 screws through the Pi Holes. The Pi comes with M2.5 screws, so we have to widen them to fit M3 screws.

Be very careful in this step as it can Damage your Raspberry Pi!























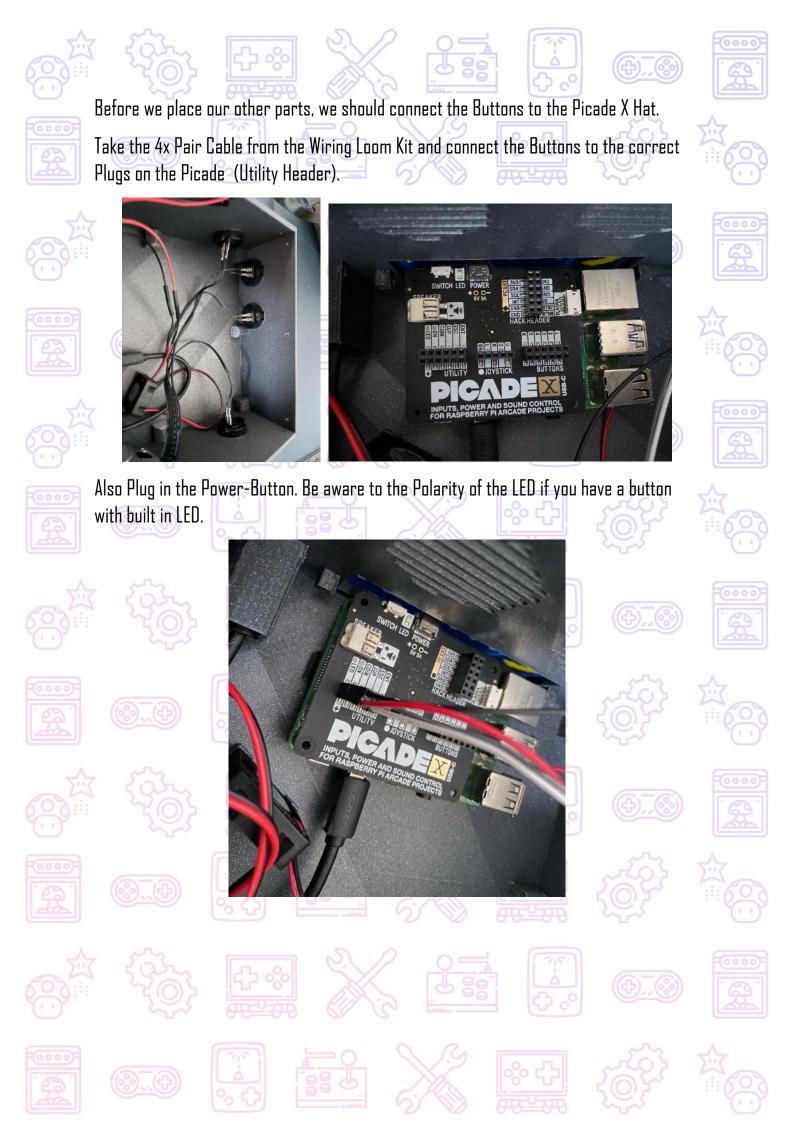


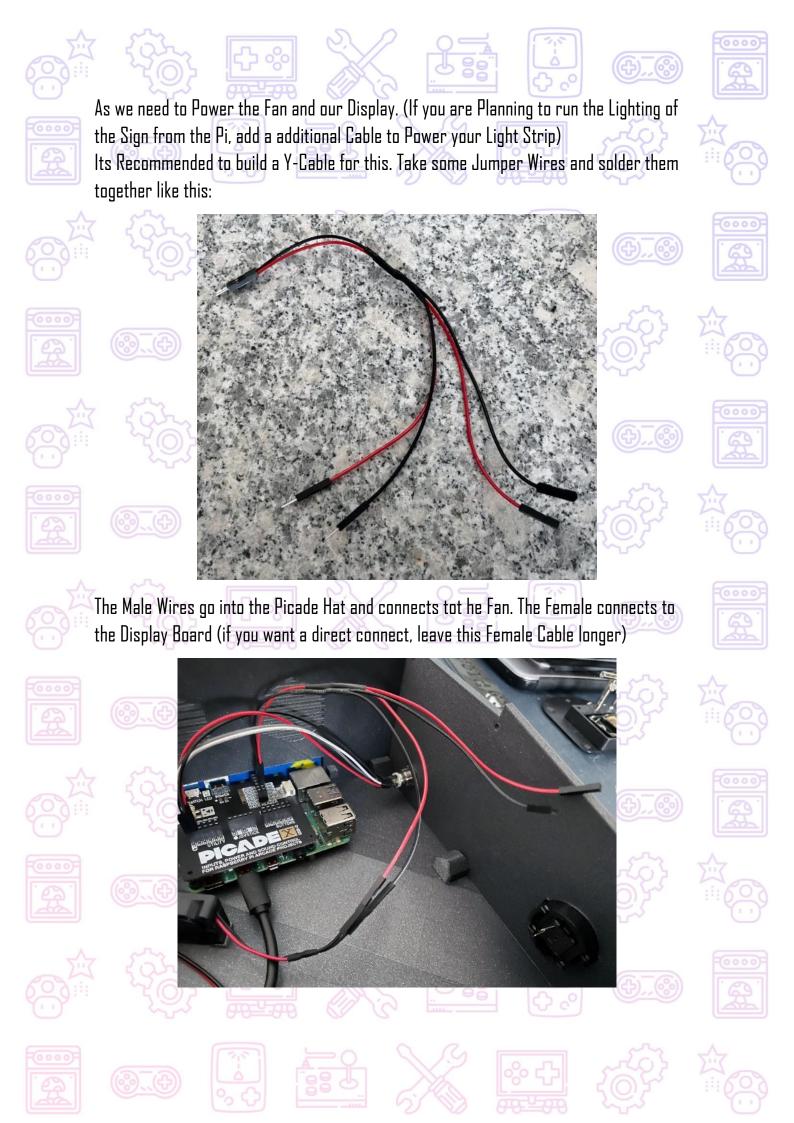


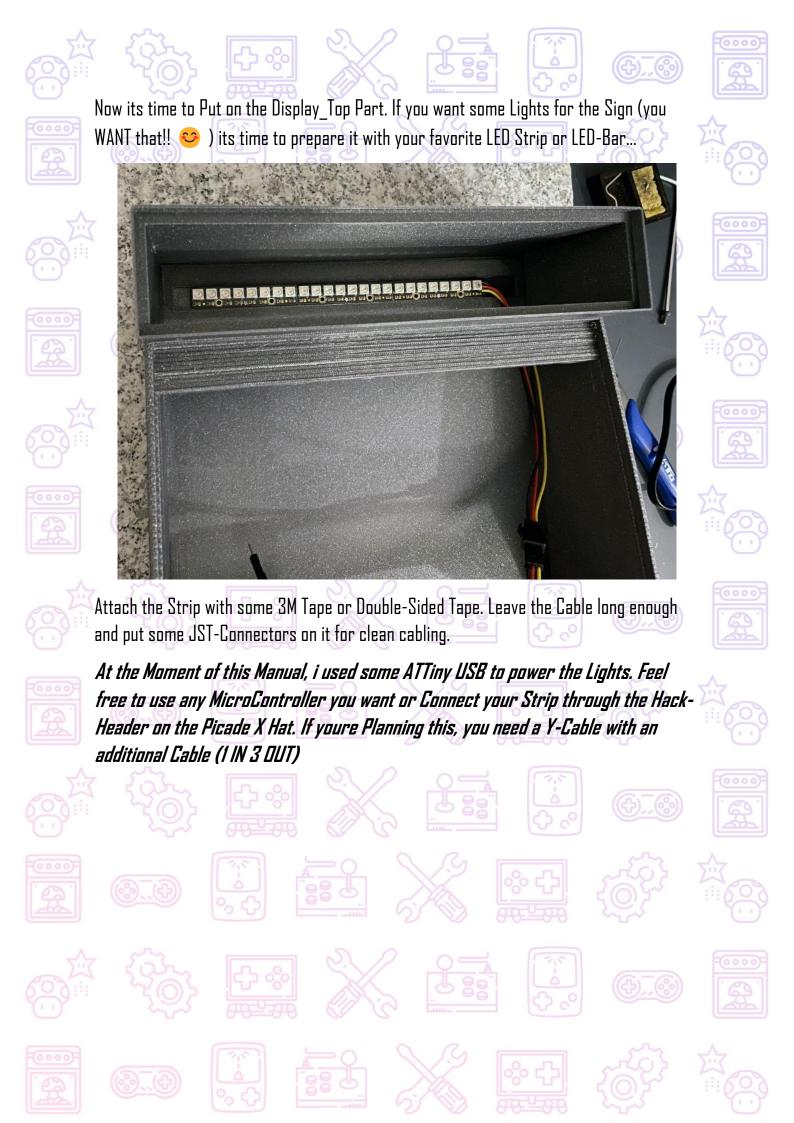


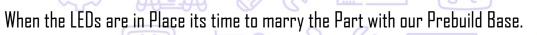
















Screw in the 6xM3 Screws to stabilize. Tight the Screws when all are in Place so you can adjust a little bit. Its important that the insert nuts are placed very well.

Halfway done. Grab the Joystick and Button Part an lay it upside down, so you can connect the cables easily. First connect the Joystick Cable and mark the GND Cable. (its the nearest one to the joystick). Then Connect the Buttons one after the other. Build yourself some ordering (not recommended for the mapping, but its better to be clean





















