

# Nin10do Lite Assembly Instructions

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2 Feb 2016

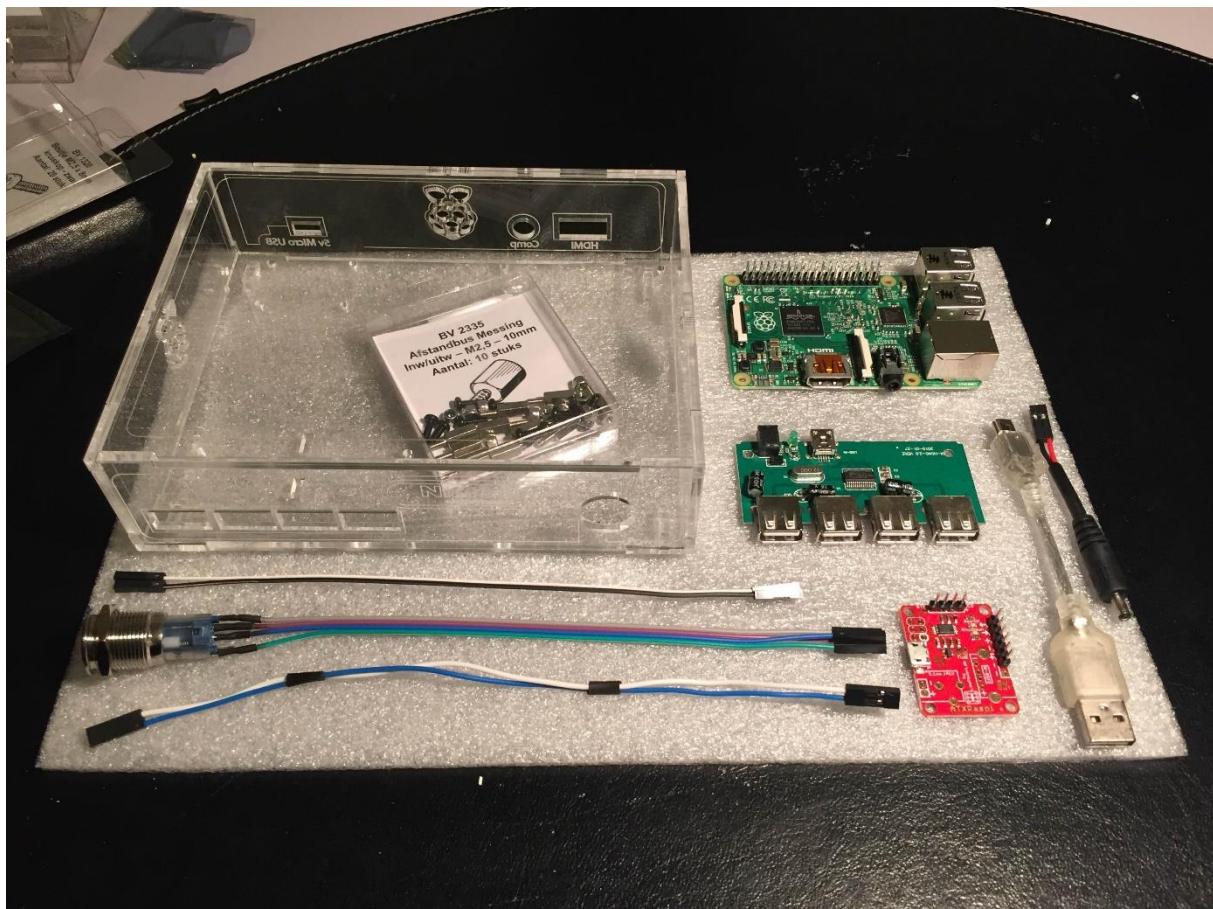
Barendrecht, Holland

Thank you for ordering your own Nin10do DIY kit !

Please carefully read these instructions and you will be playing your favorite games in no-time!

**Note:** If you blow-up your Raspberry Nin10do or your ATX-Raspi board by not following the instructions this will void ALL warranty.

What do you get?



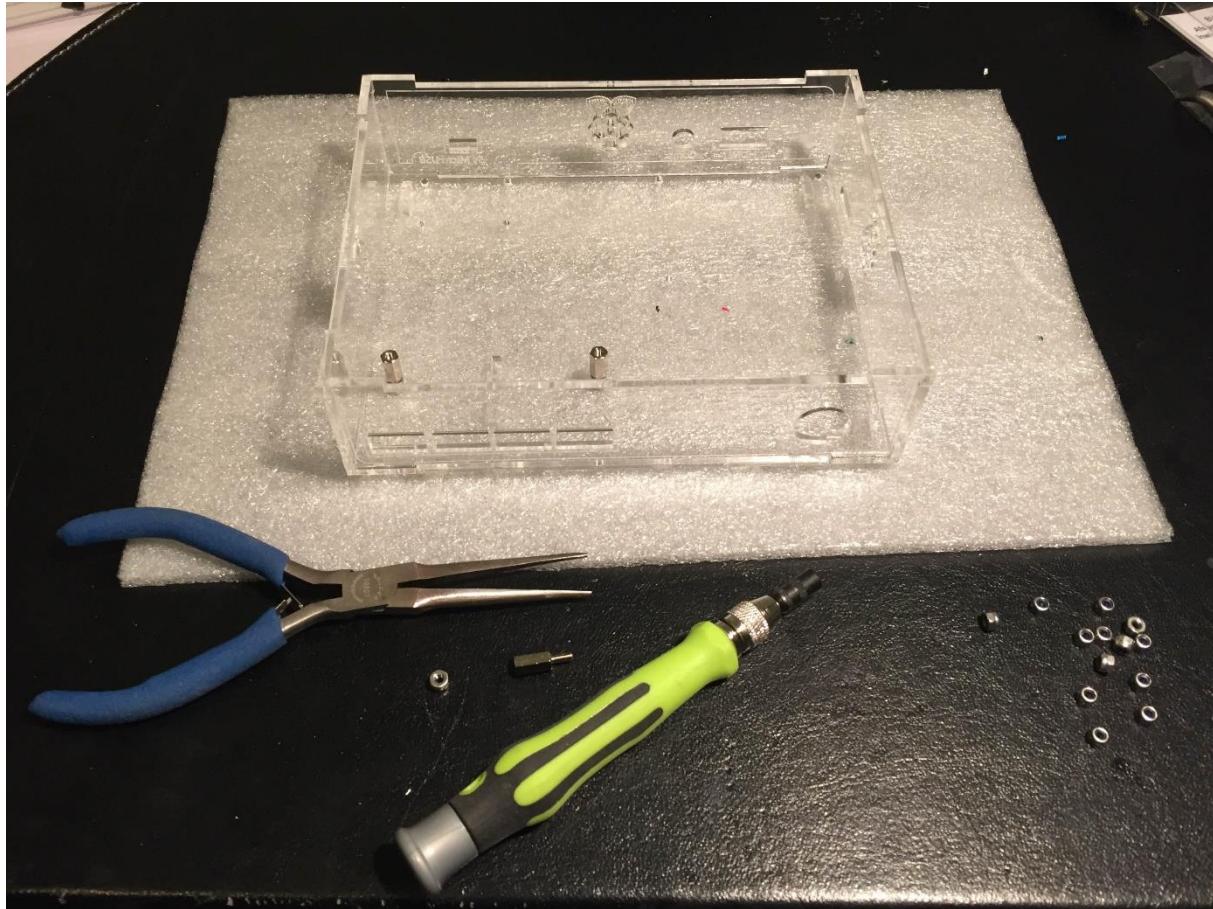
**Part list:** Acrylic case, assembly kit (32 parts), modified USB hub, modified Raspberry Pi, custom built USB mini cable, custom USB power cable, ATX-Raspi (by Low PowerLab), custom built LED momentary switch, custom built jumper-wire (power to Pi), signal jumper-wire.

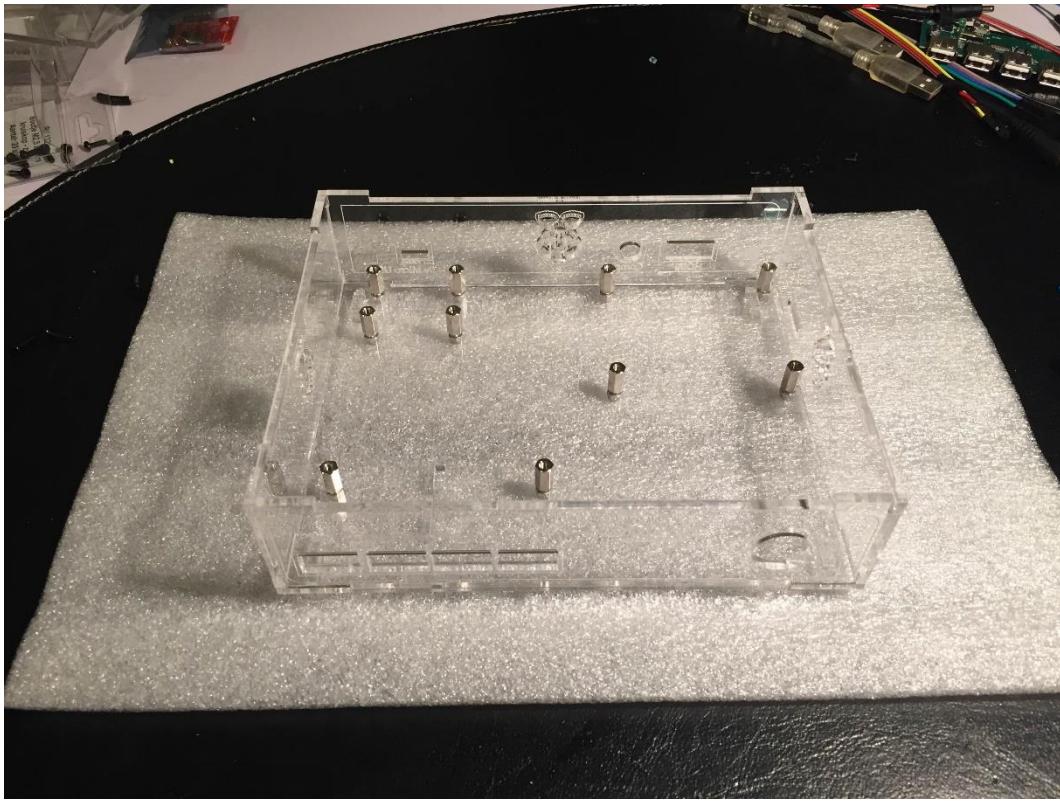
Which tools do you need?



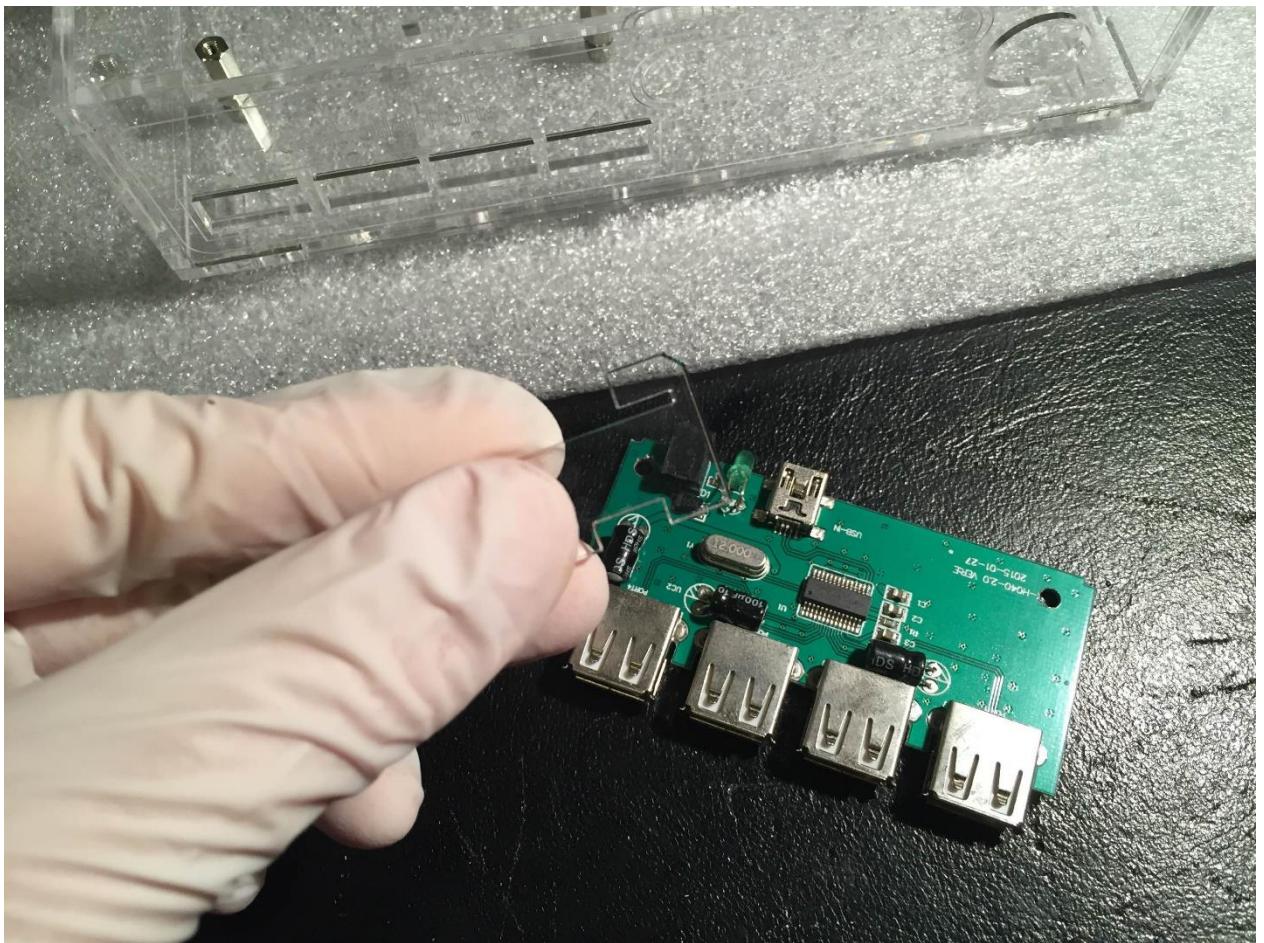
Screwdriver with several different bits, gloves, pliers, glue or plastic welding solution (optional)

STEP 1: Install the stand-offs in the case and tighten them with the supplied nyloc-nuts.



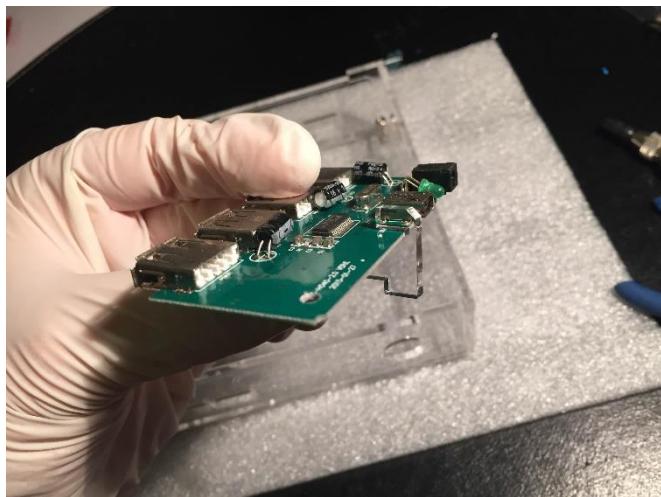


STEP 2: Install the USB hub and tighten them using 2 screws with washers

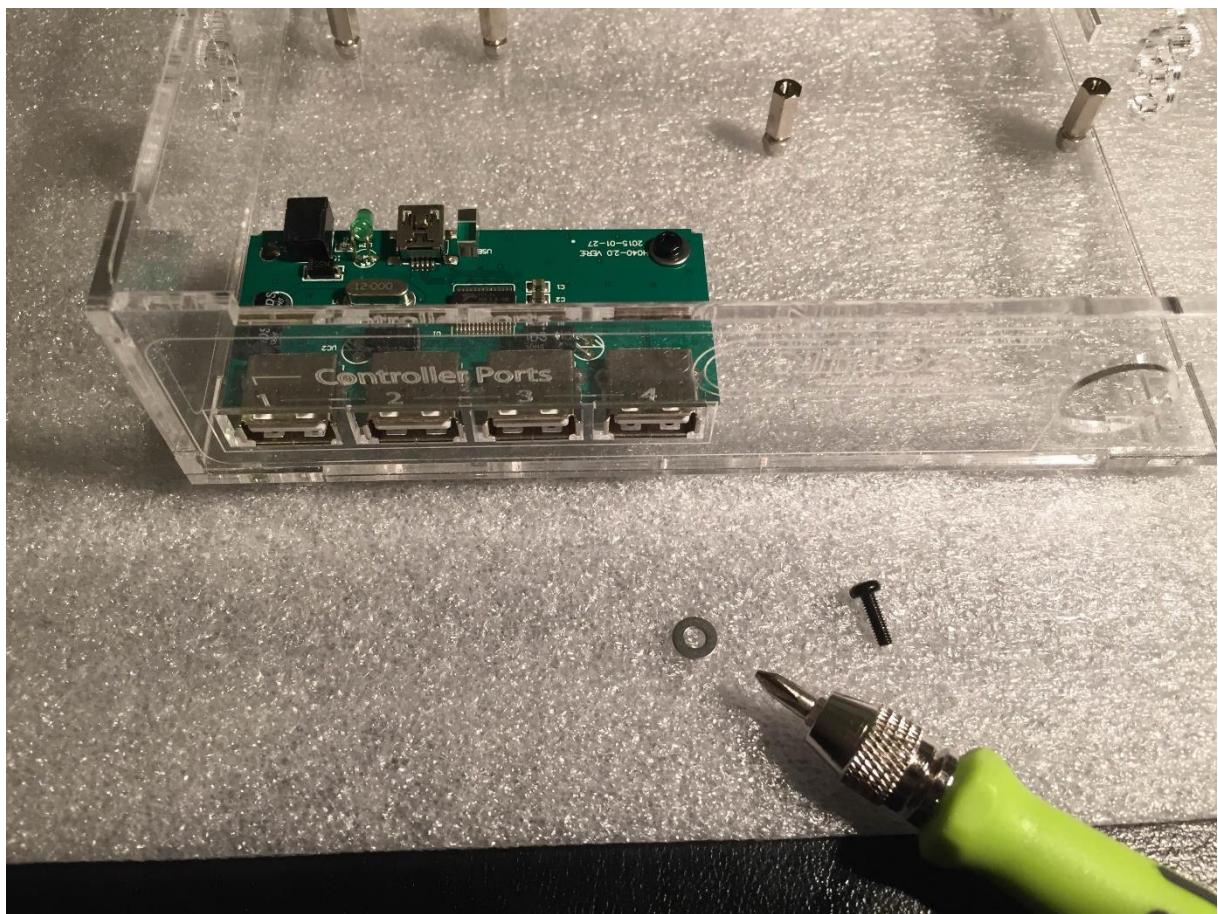


Note: Don't forget to attach the acrylic holder FIRST (you will not be able to do this after the hub is screwed in place)

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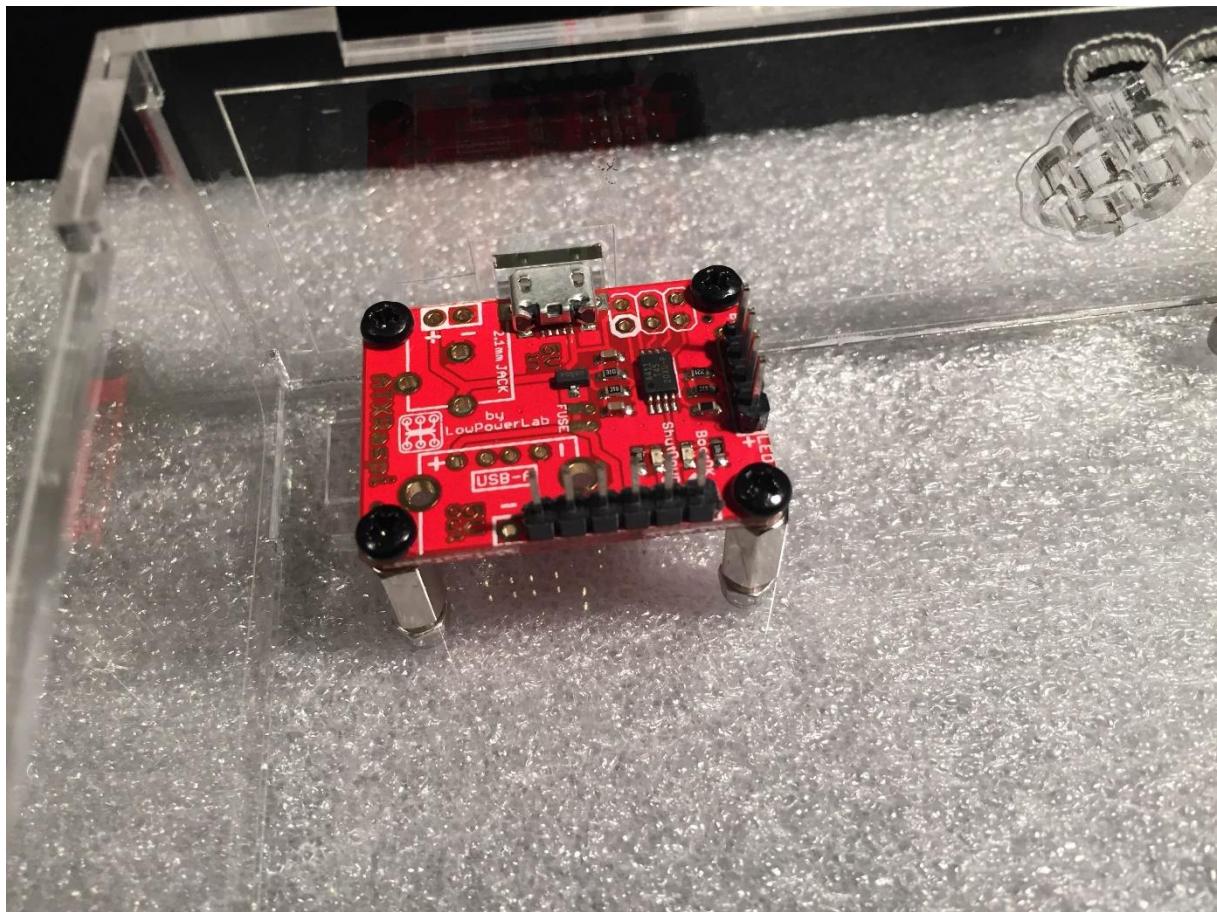
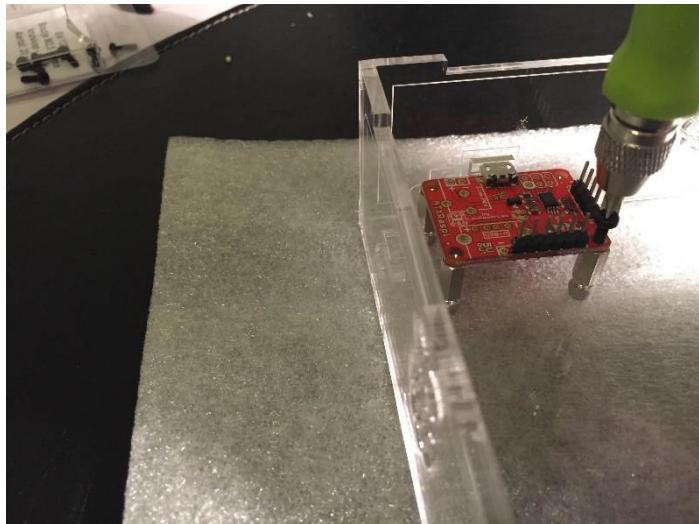
Attach like this and insert it in the case



Use 2 Philips screws and washers as shown in picture.

STEP 3: Install the ATX RASPI board and tighten it using 4 screws

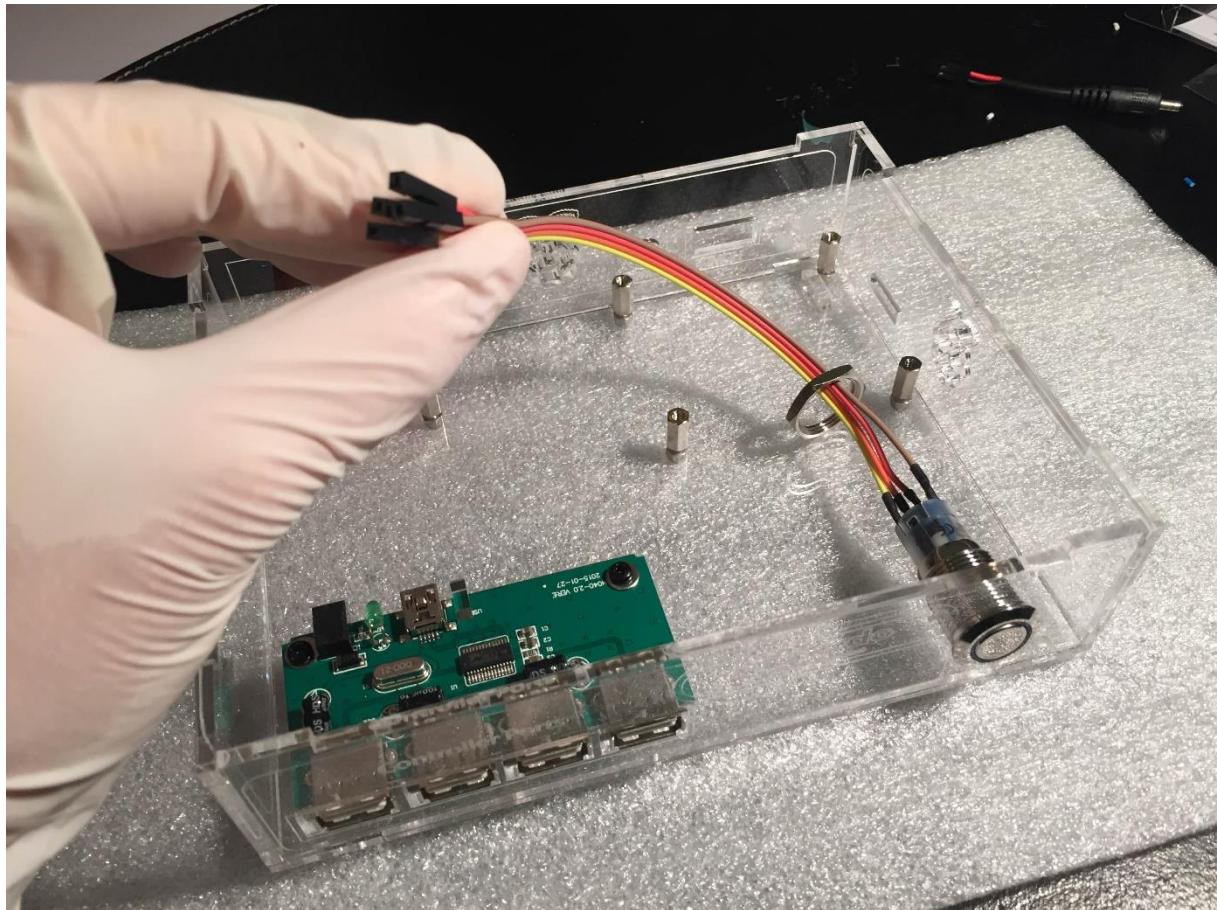
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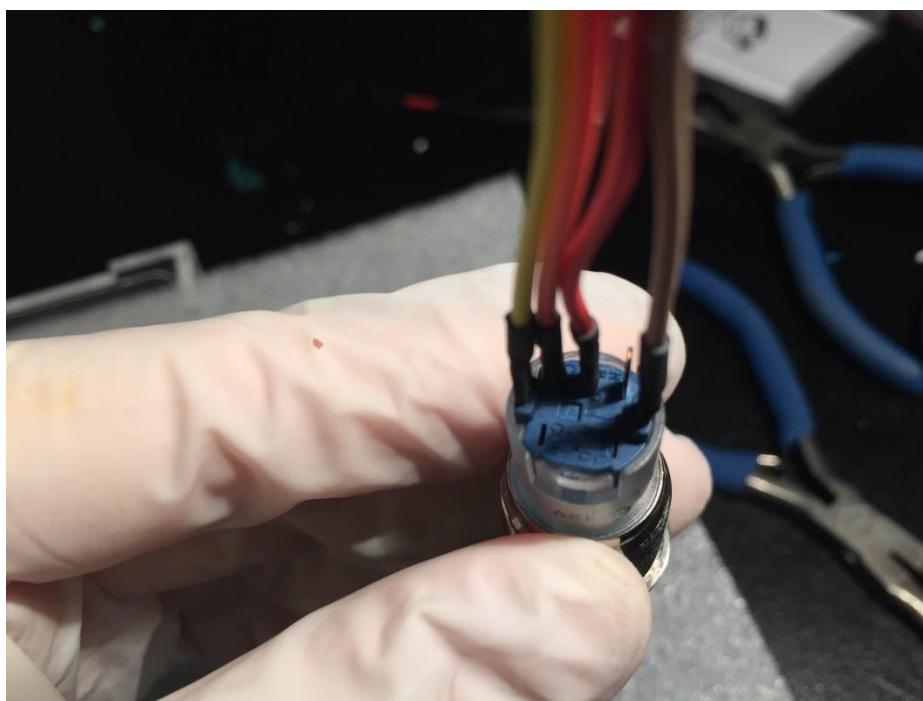
Finished!

STEP 4: Install the LED switch and connect it to the ATX-RASPI

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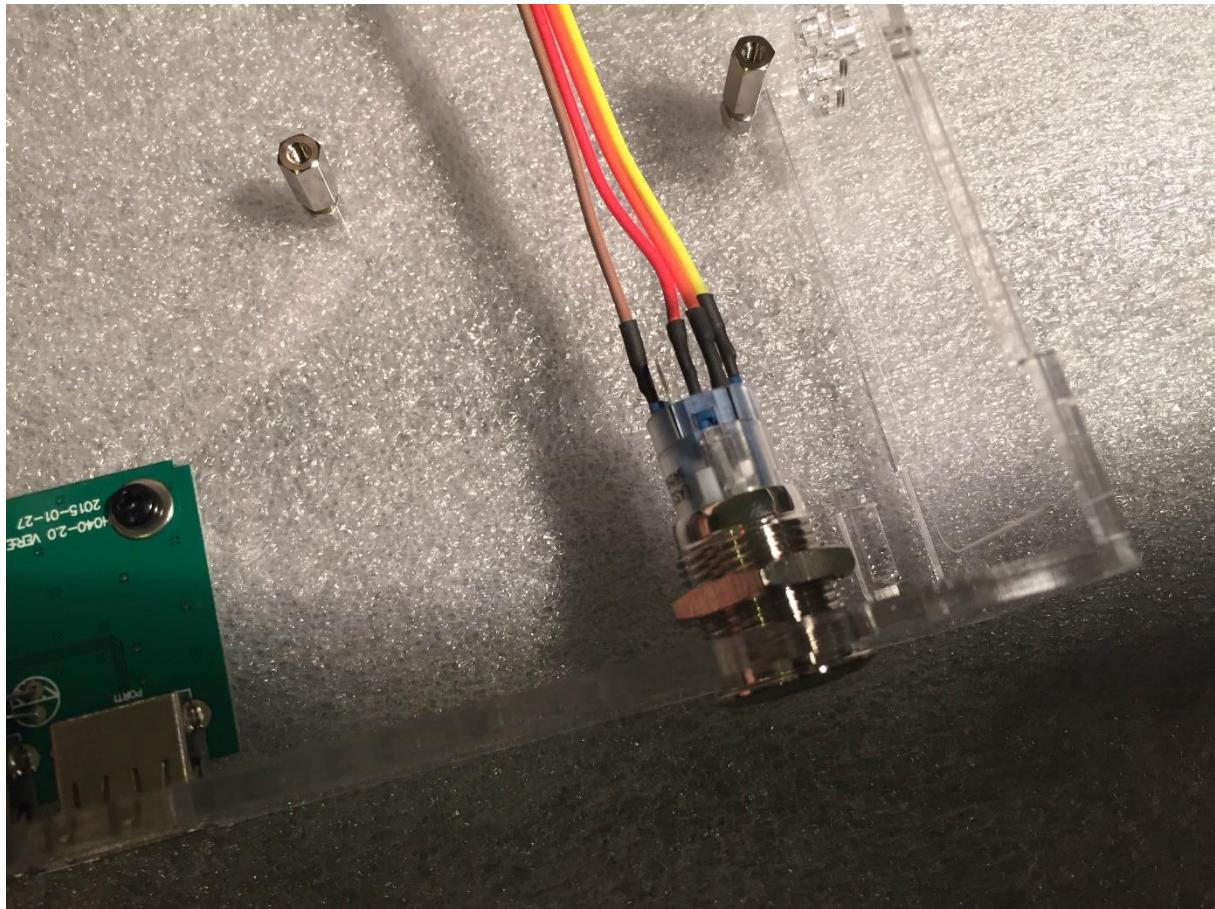
Unscrew the ring, install the switch and re-tighten it as shown on image.



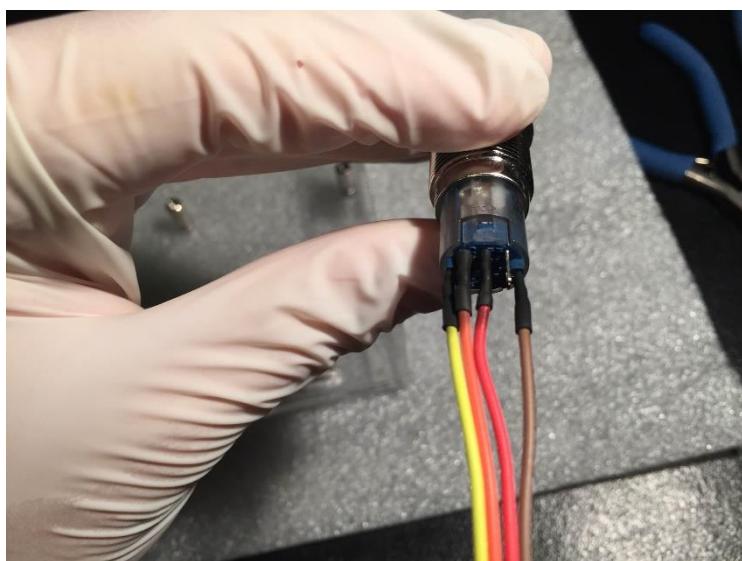
The button has 4 wires: GROUND(yellow) SIGNAL (red & orange) 5V (brown)

Note: colors may vary please use the above picture to understand that the RIGHT wire is positive 5V

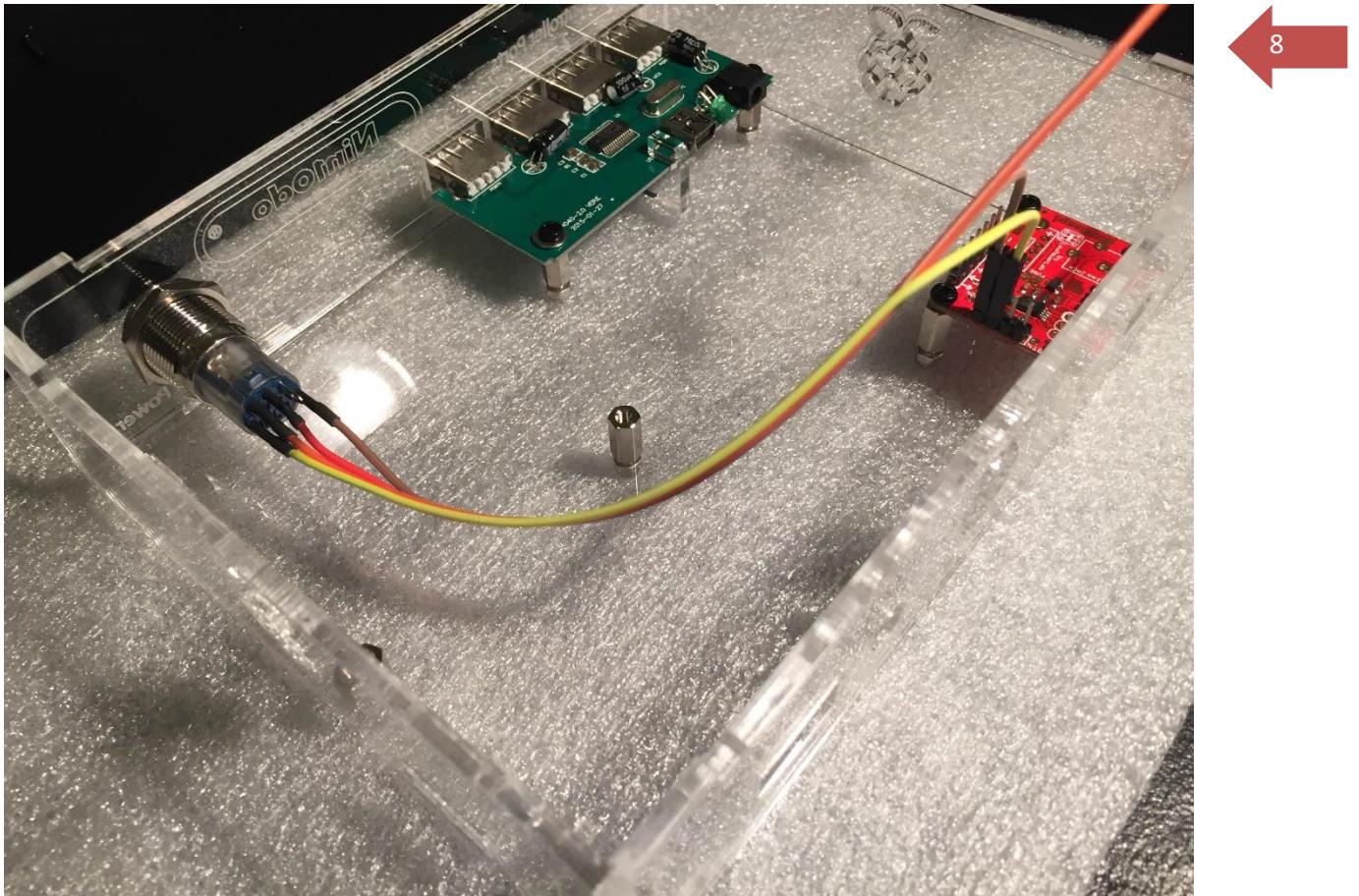
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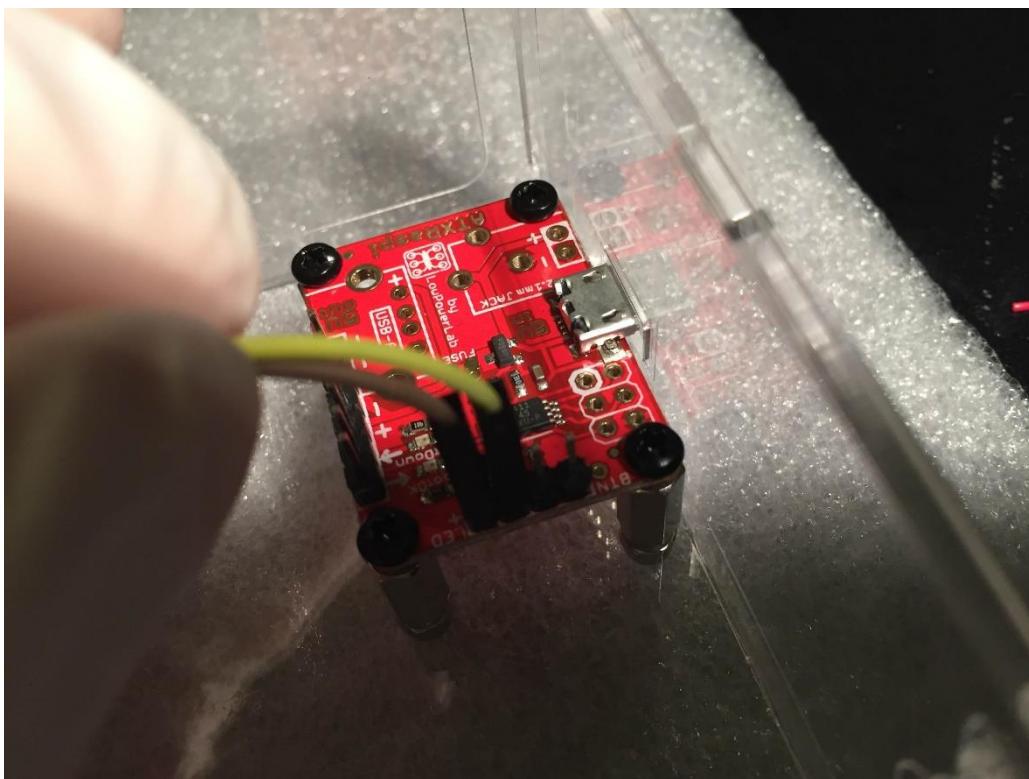
Retighten the ring



Left to right: GROUND / SIGNAL / SIGNAL / 5V



Attach the 5V wire to the + pin on the ATX RASPI as shown



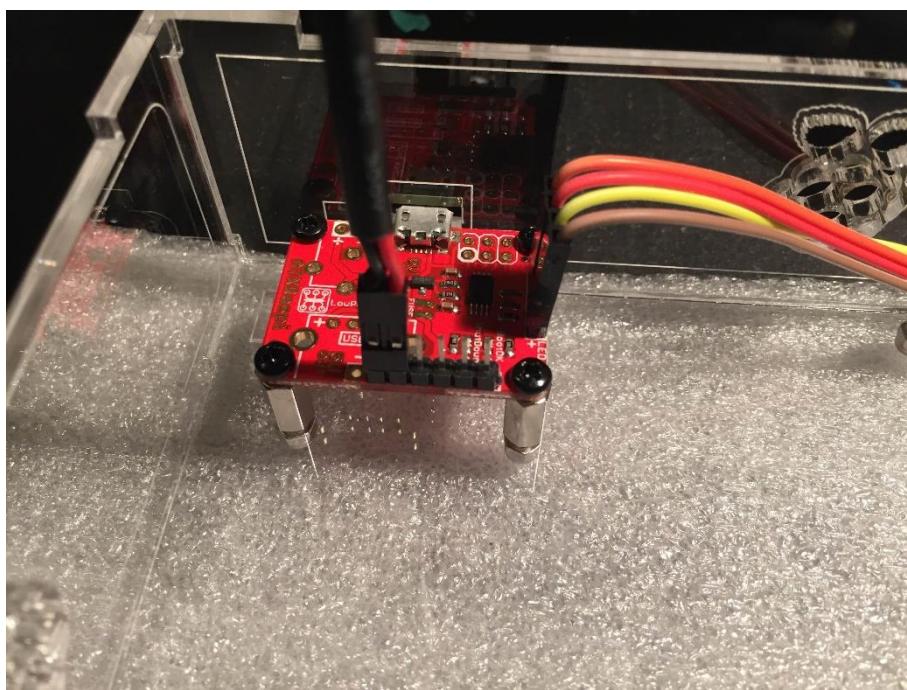
Note: DOUBLE check that you connect the positive and negative(ground) correctly

STEP 5: Install the power cable to the USB hub and ATX RASPI

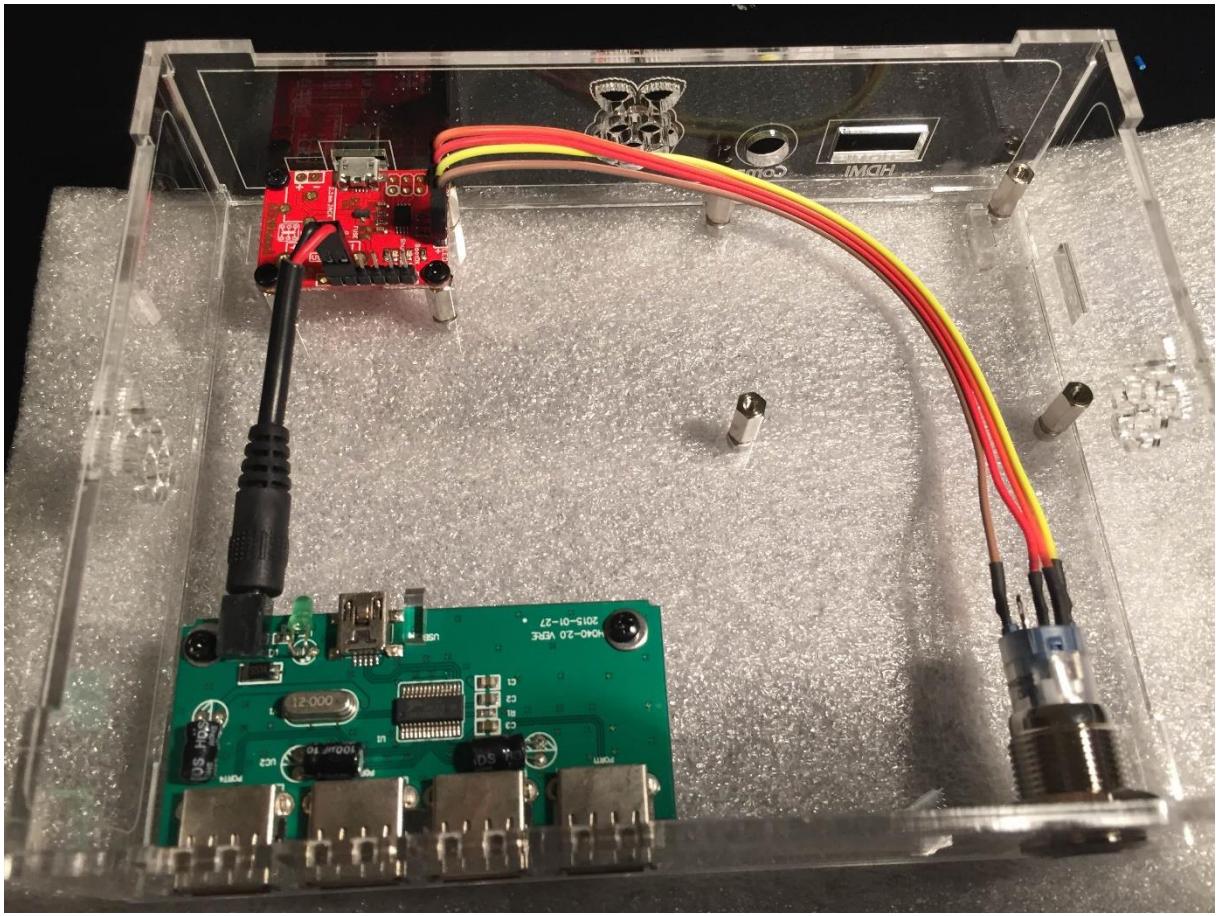
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Red is (of course) POSITIVE, black is ground

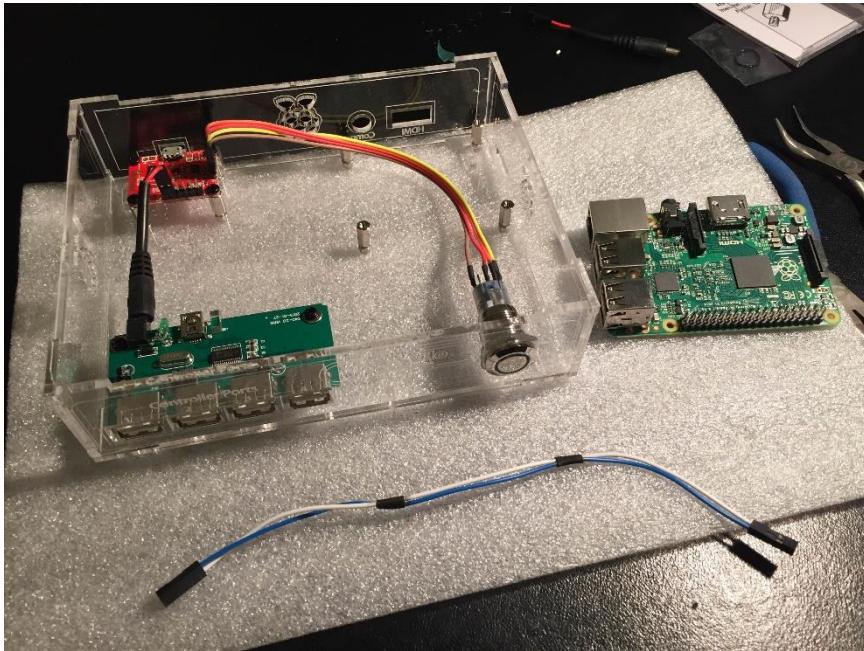


Connect to the ATX RASPI board like this

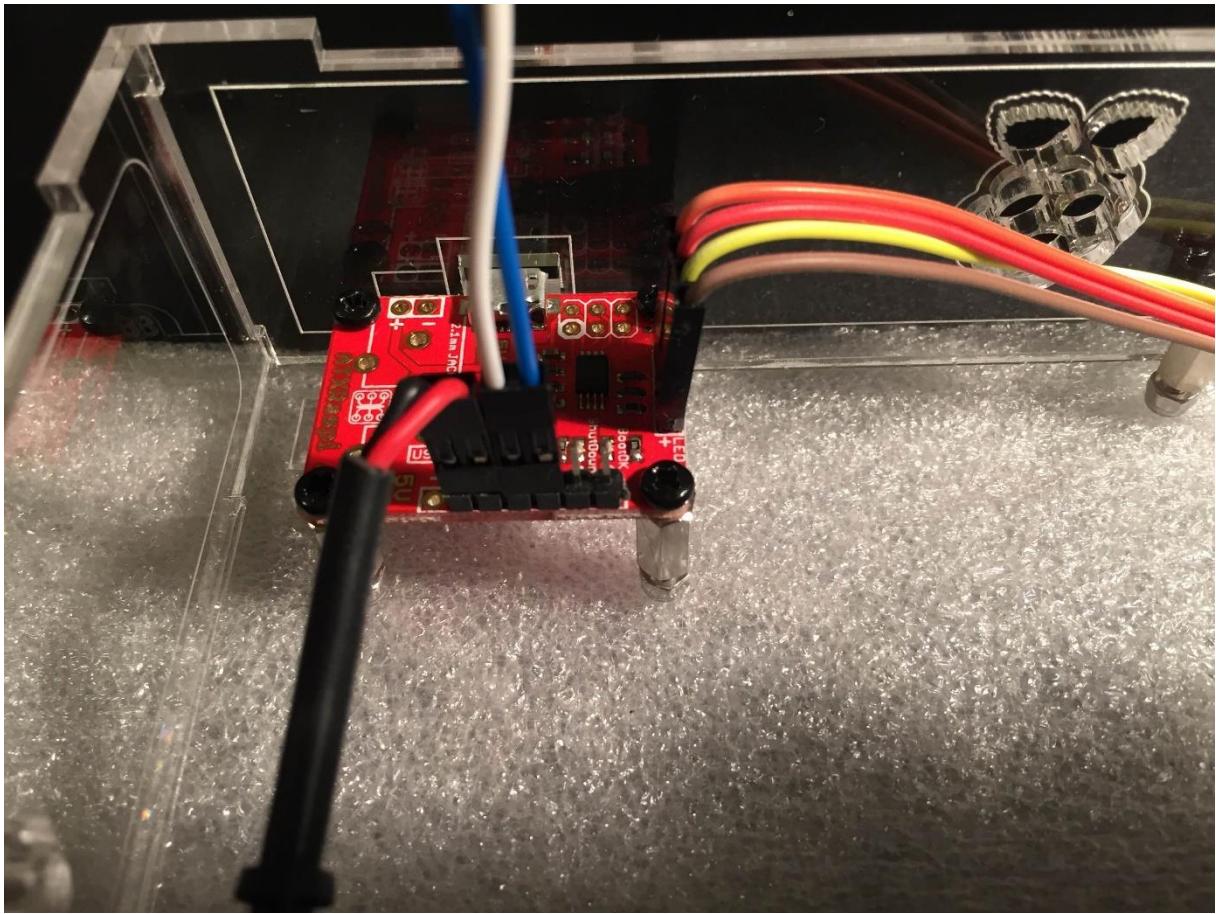


Connect to the USB HUB

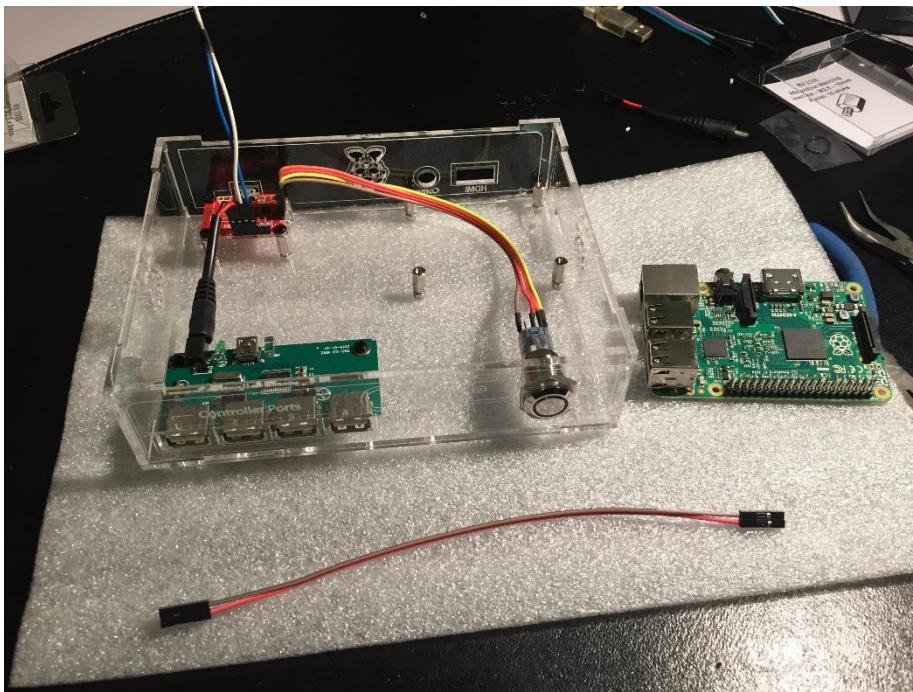
[STEP 6: Install the custom jumper-wire and signal wire and Pi](#)



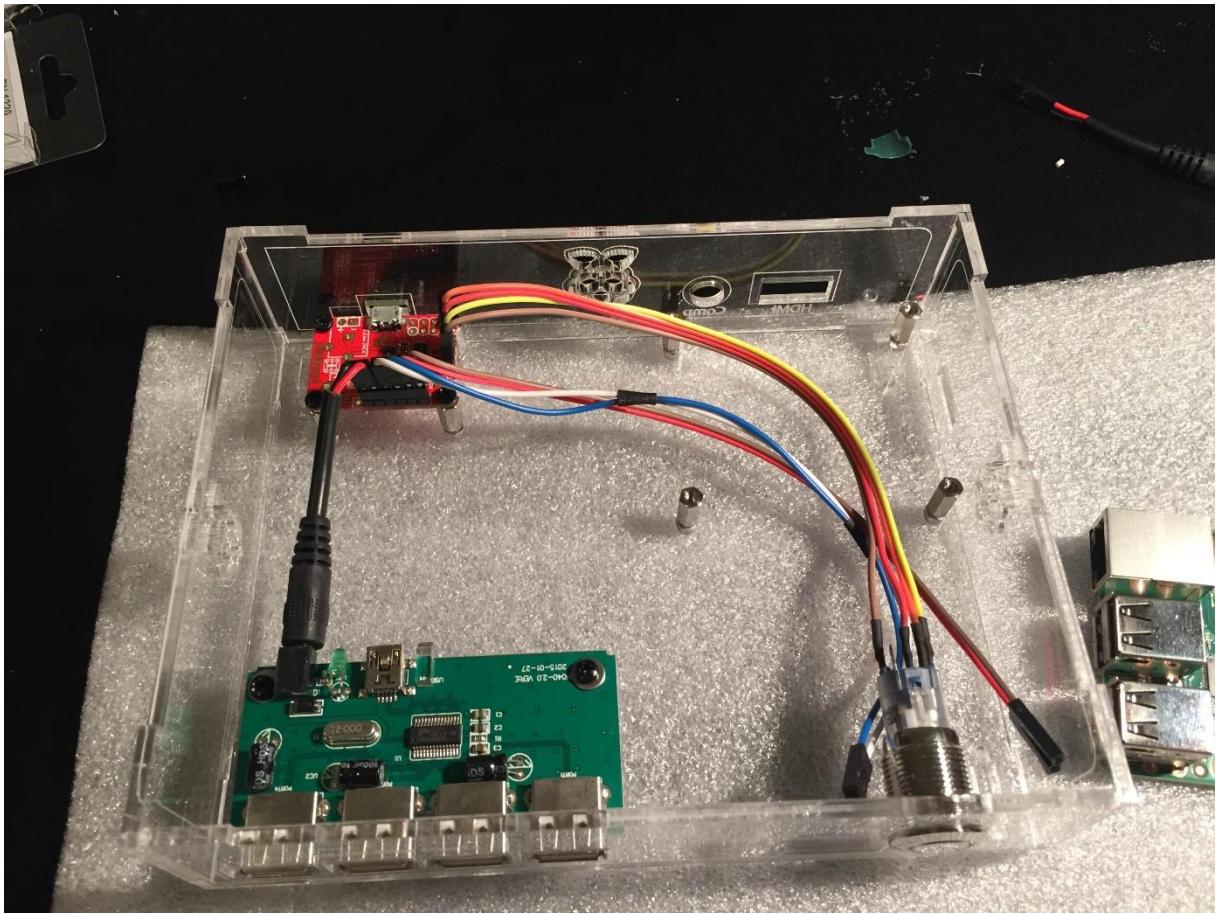
Note: The blue and white wires (power to the Pi) are custom built for optimal performance color may change but you can feel that these are a bit thicker than the other 2 jumper-cables



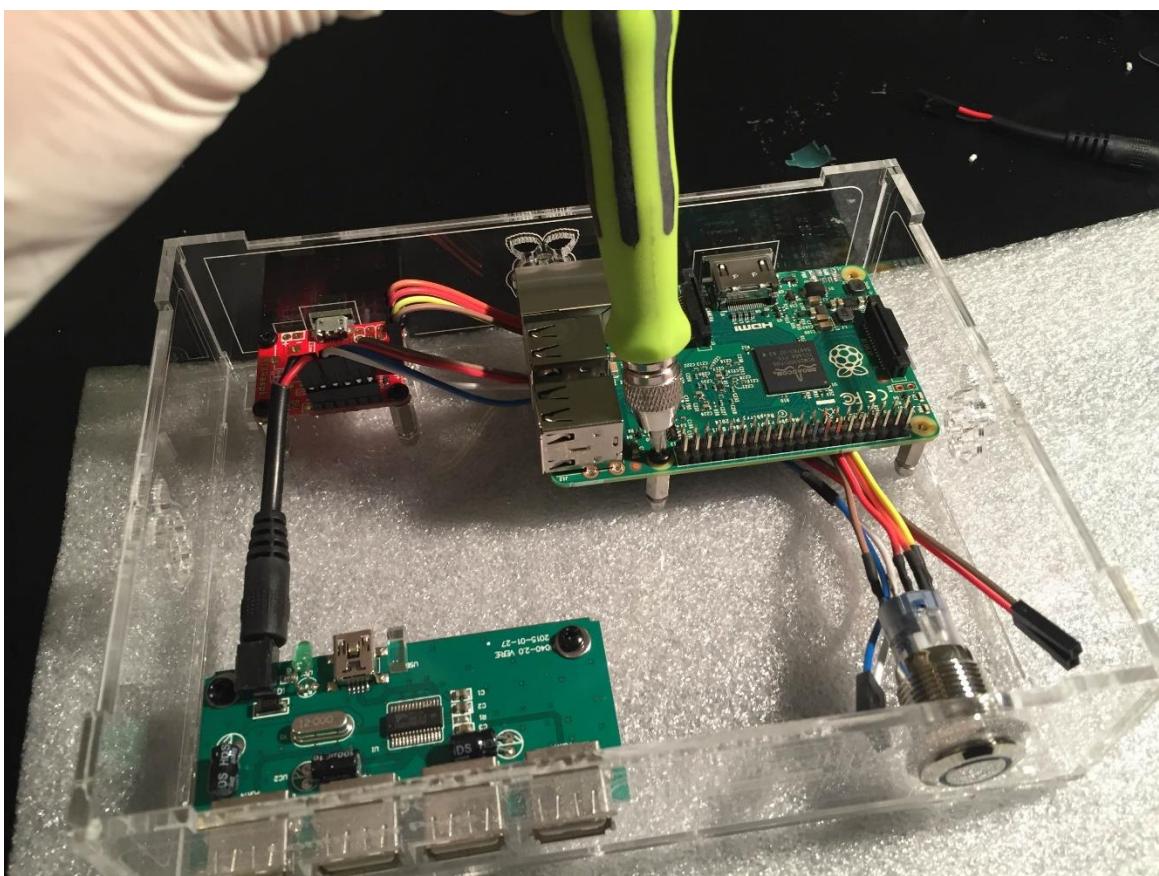
Connect the wire like this BE VERY CAREFUL TO MAKE SURE THAT THE BLUE WIRE GOES OVER THE POSITIVE (+) PIN (right pin). Making a mistake here can damage your Pi!



Get the other jumper-wire (signal to Pi) and connect it next to the Power Jumper-Wire

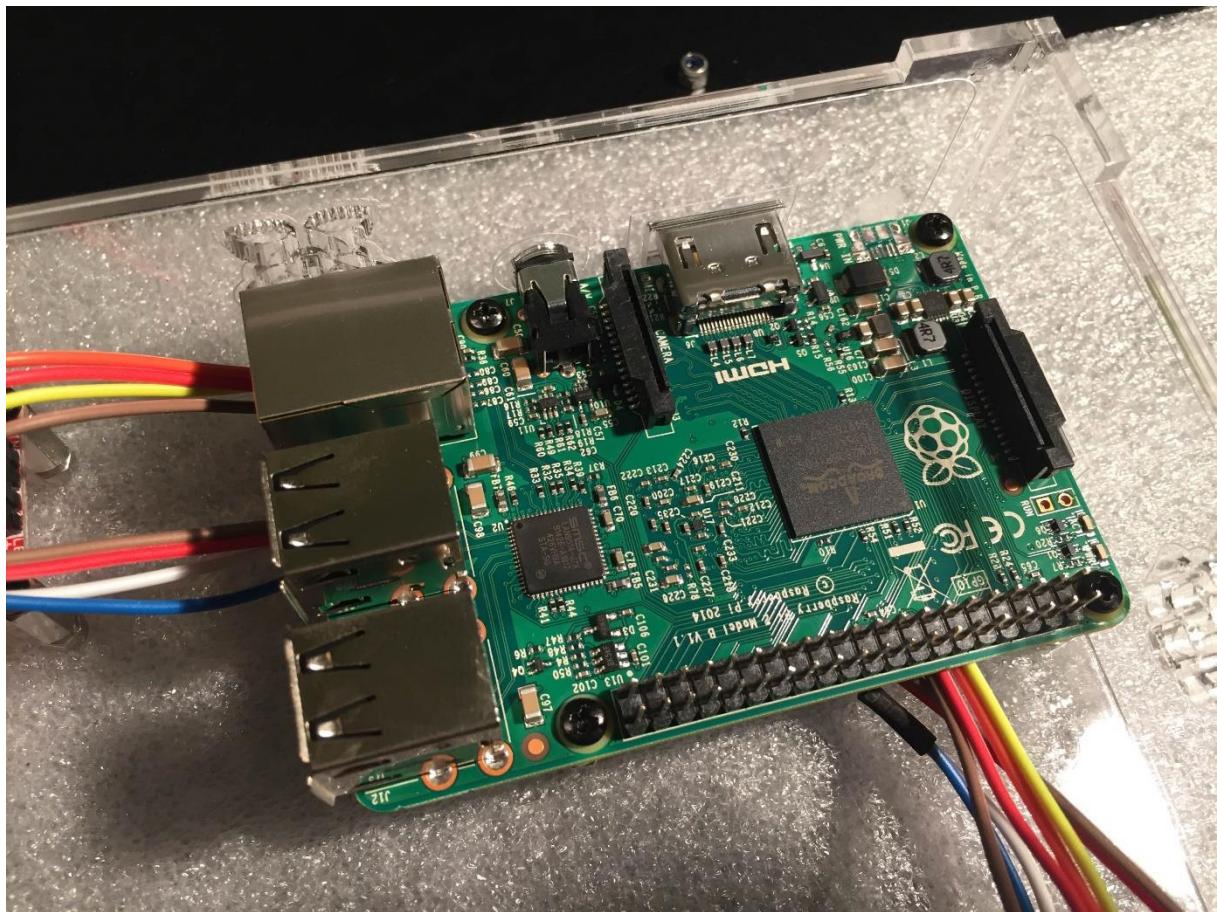


Flatten the cables a bit and place them in between the stand offs as shown on picture.



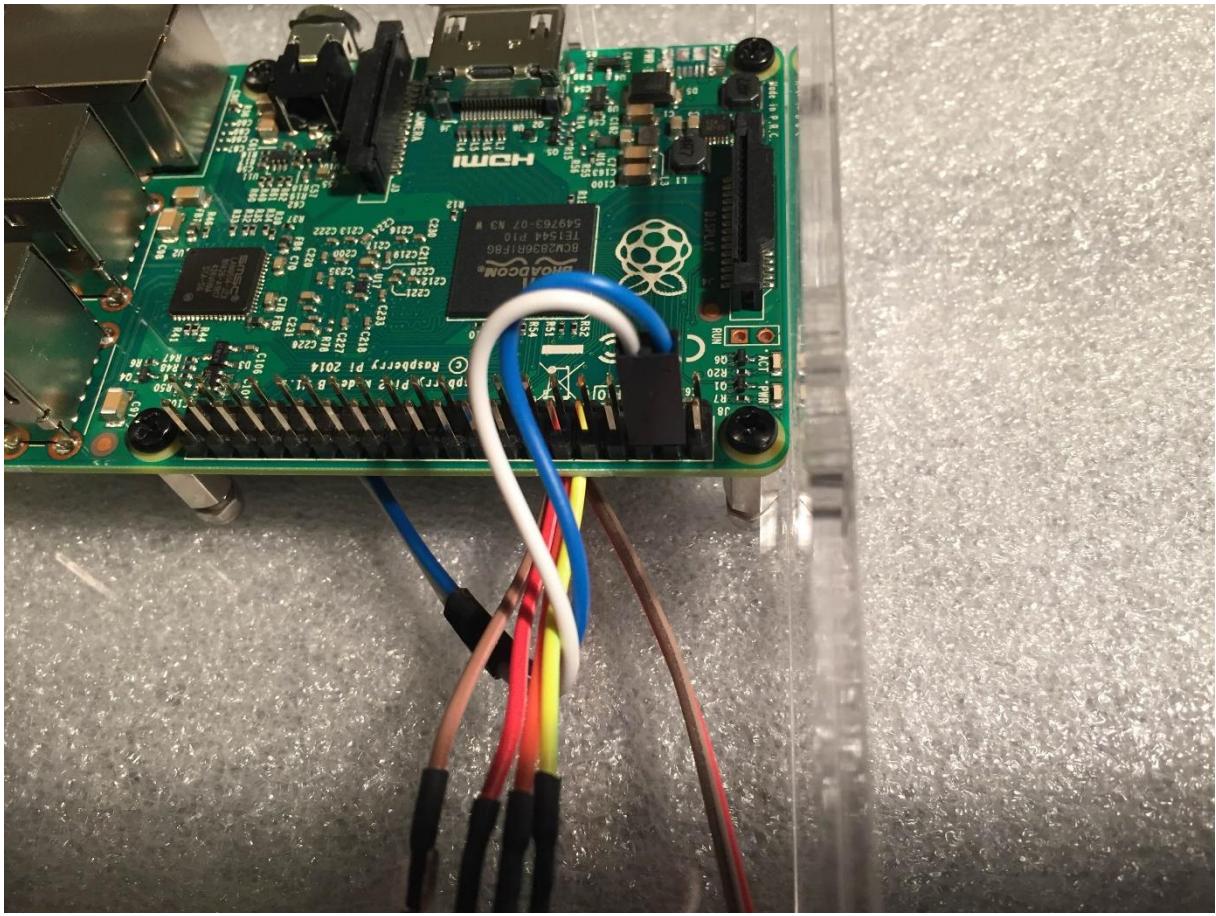
Yes(!) now we can install the modified Raspberry Pi

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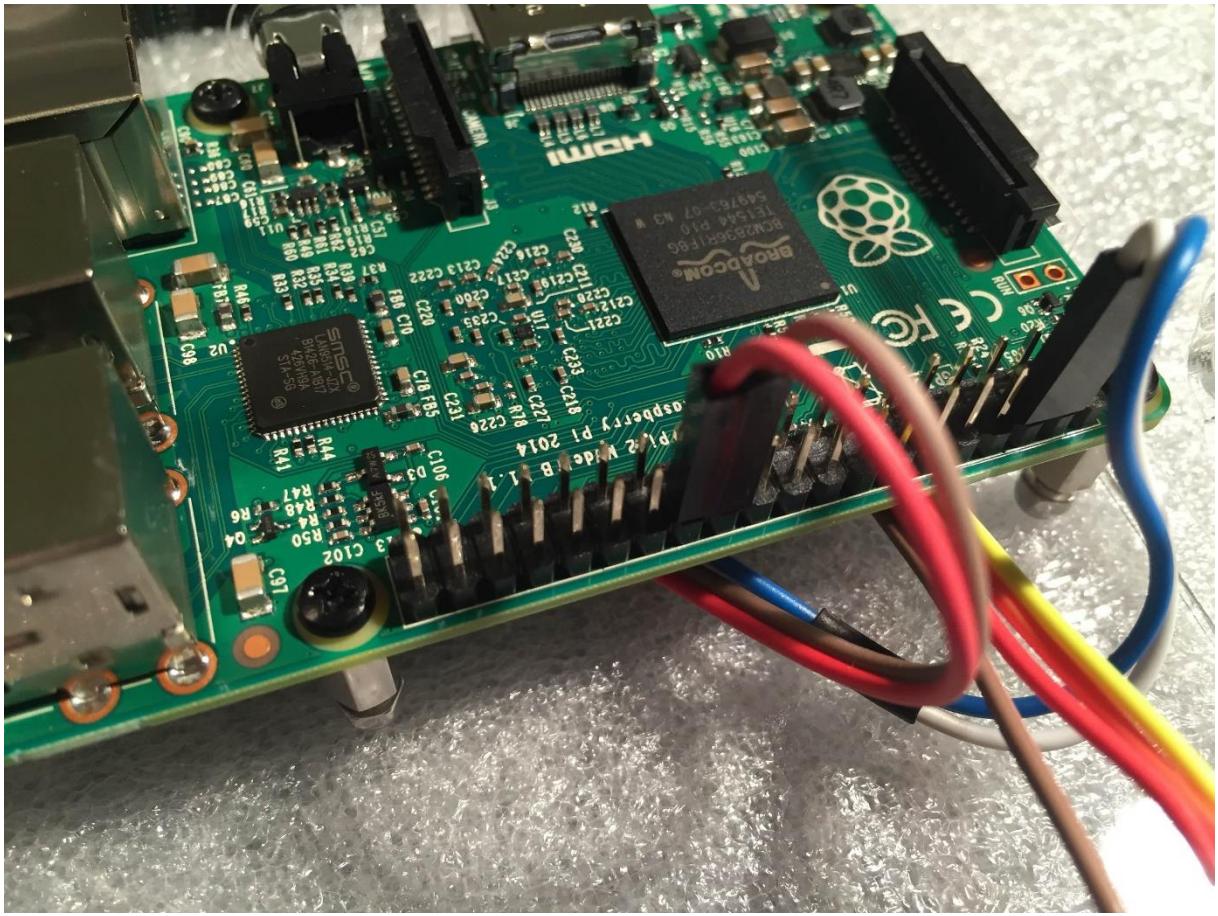


Note: The micro usb port NEEDS TO BE REMOVED (already done for you with the supplied Pi) if you install a NEW Pi in this case.

This is necessary to get the Pi flat against the side panel in order to be able to insert the HDMI or composite video cable. Also you can't power the Pi directly if you have the ATX-RASPI board operating it anyway.



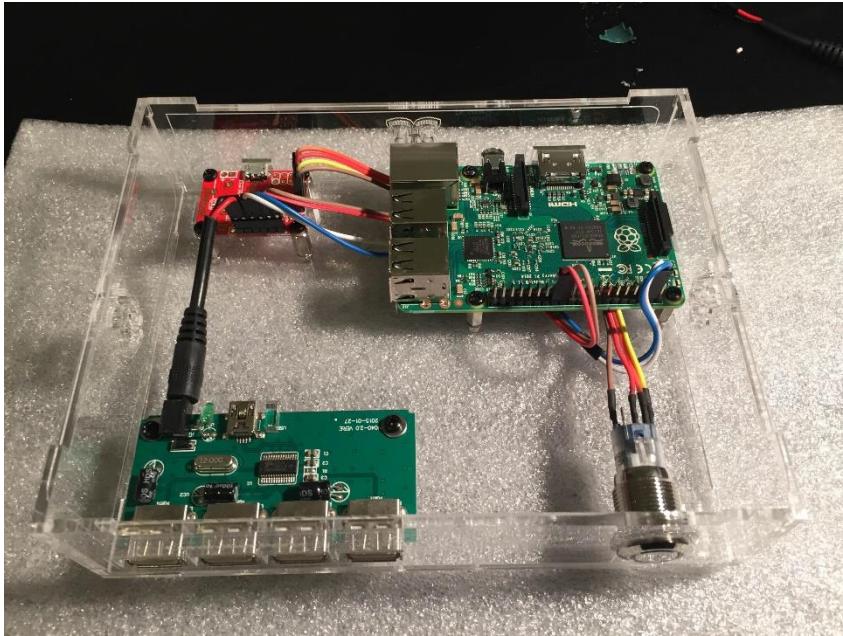
Now attach the POWER jumper wires (Blue = 5v White = ground) to PIN 4 (5v) and PIN 6 (ground)  
BE CAREFUL NOT TO ATTACH THE WIRES TO OTHER PINS AS THIS WILL DAMAGE BOTH THE PI AND  
THE ATX RASPI BOARD



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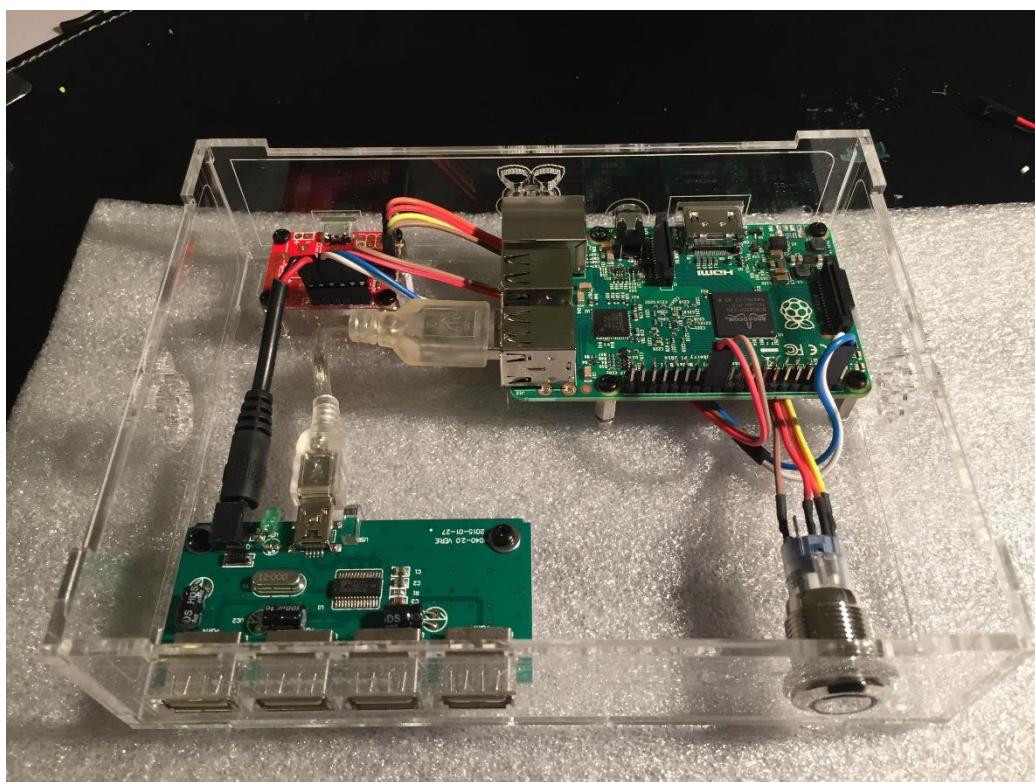
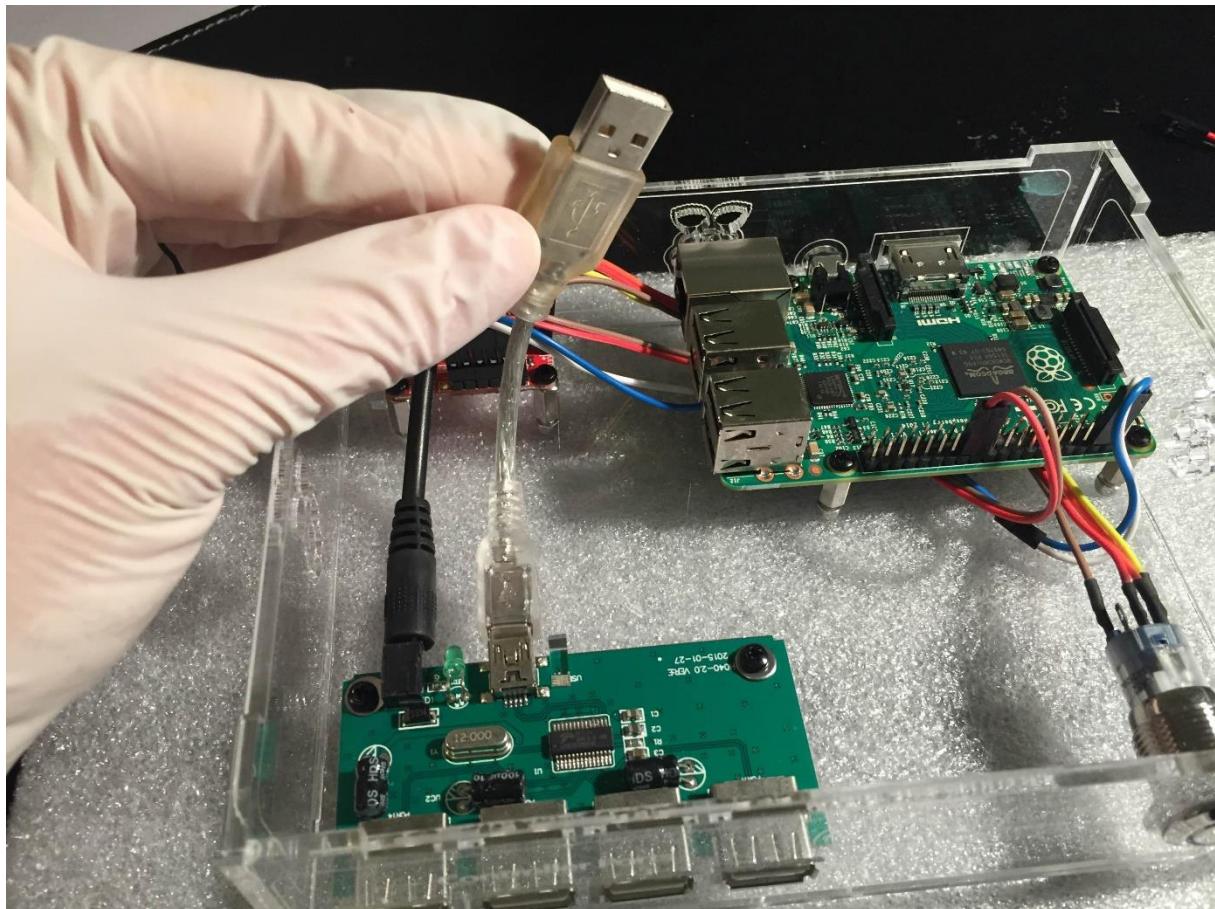
Now attach the jumper (signal) wires to PIN 26 and 24 as shown on picture.

Note: THE OUTGOING ARROW ON THE ATX BOARD NEEDS TO BE CONNECTED TO PIN 26 (red wire on picture but color may vary)



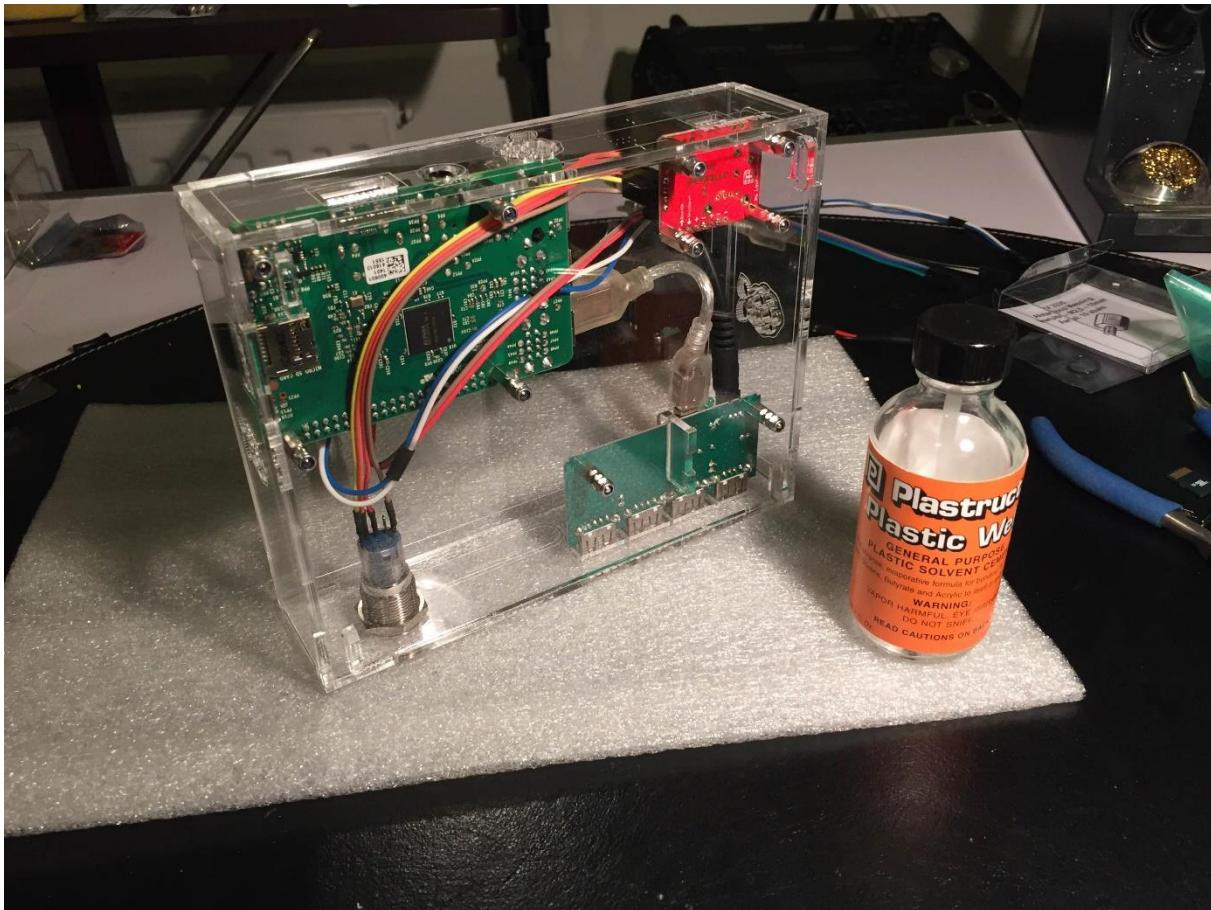
Take a break... and double check that your built looks like this

STEP 7: connect the mini USB cable to the Pi and USB HUB

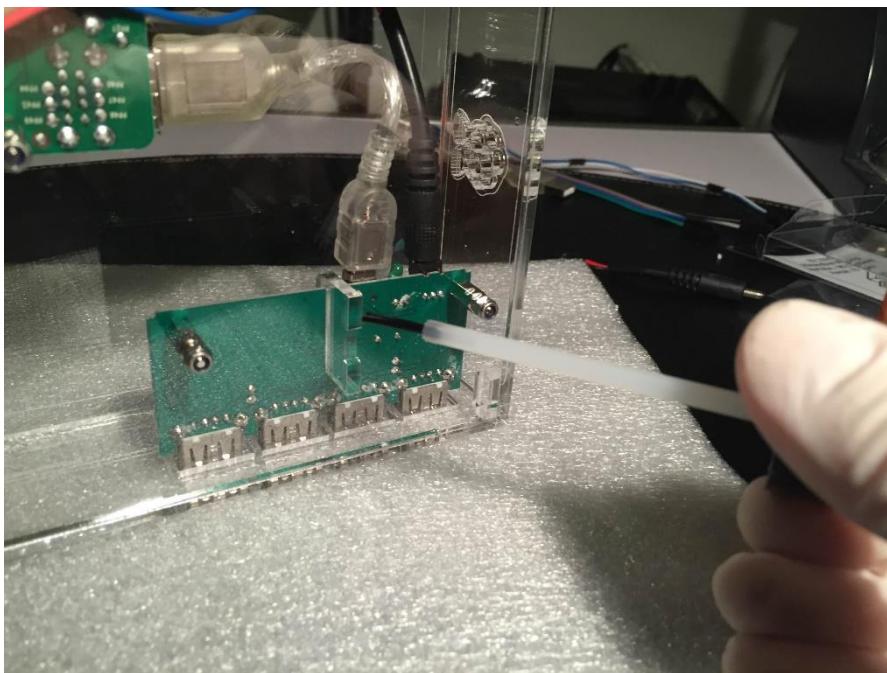


## STEP 8: GLUE THE ACRYLIC USB HUB HOLDER IN PLACE

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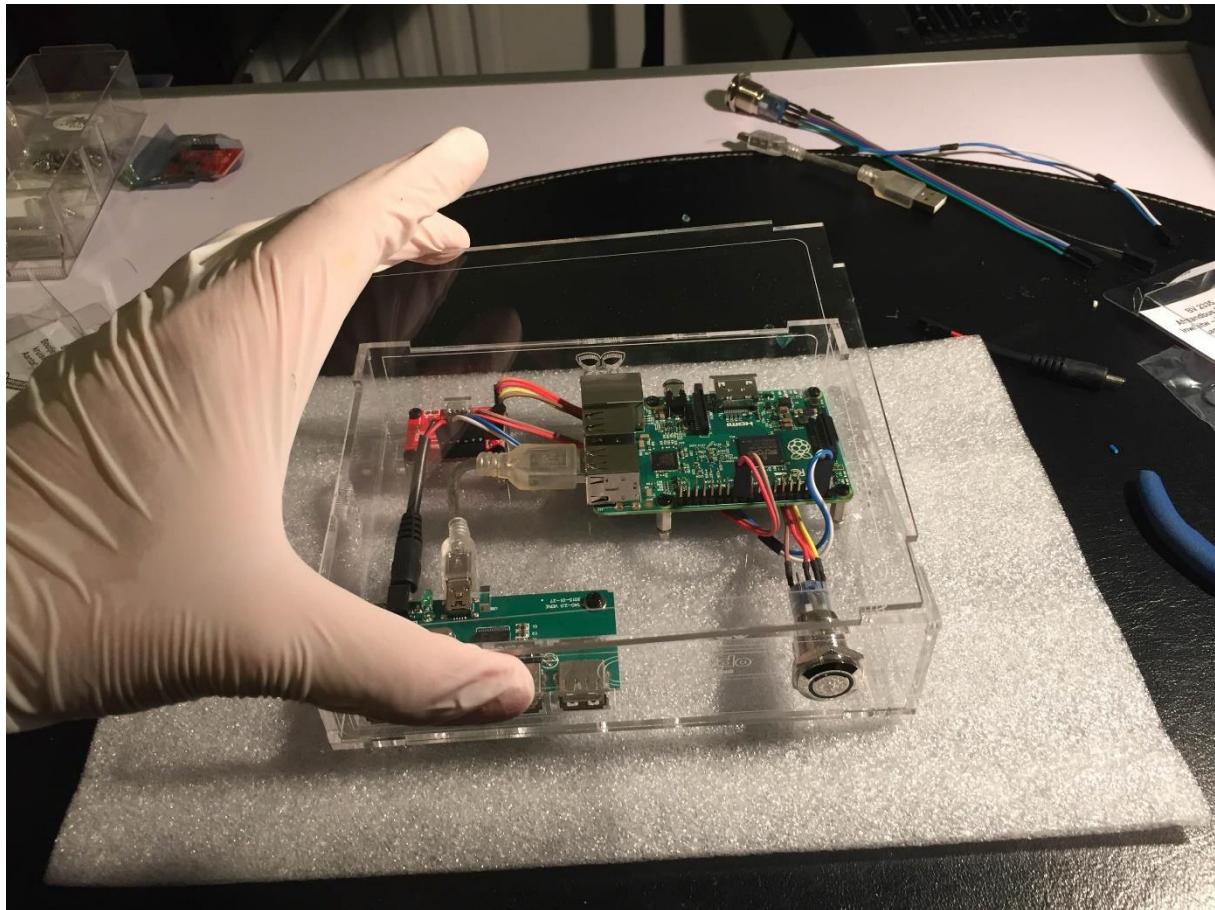
Not necessary but a nice thing to do... The USB HUB is only connected with two small stand-offs so the Acrylic holder is pretty handy.

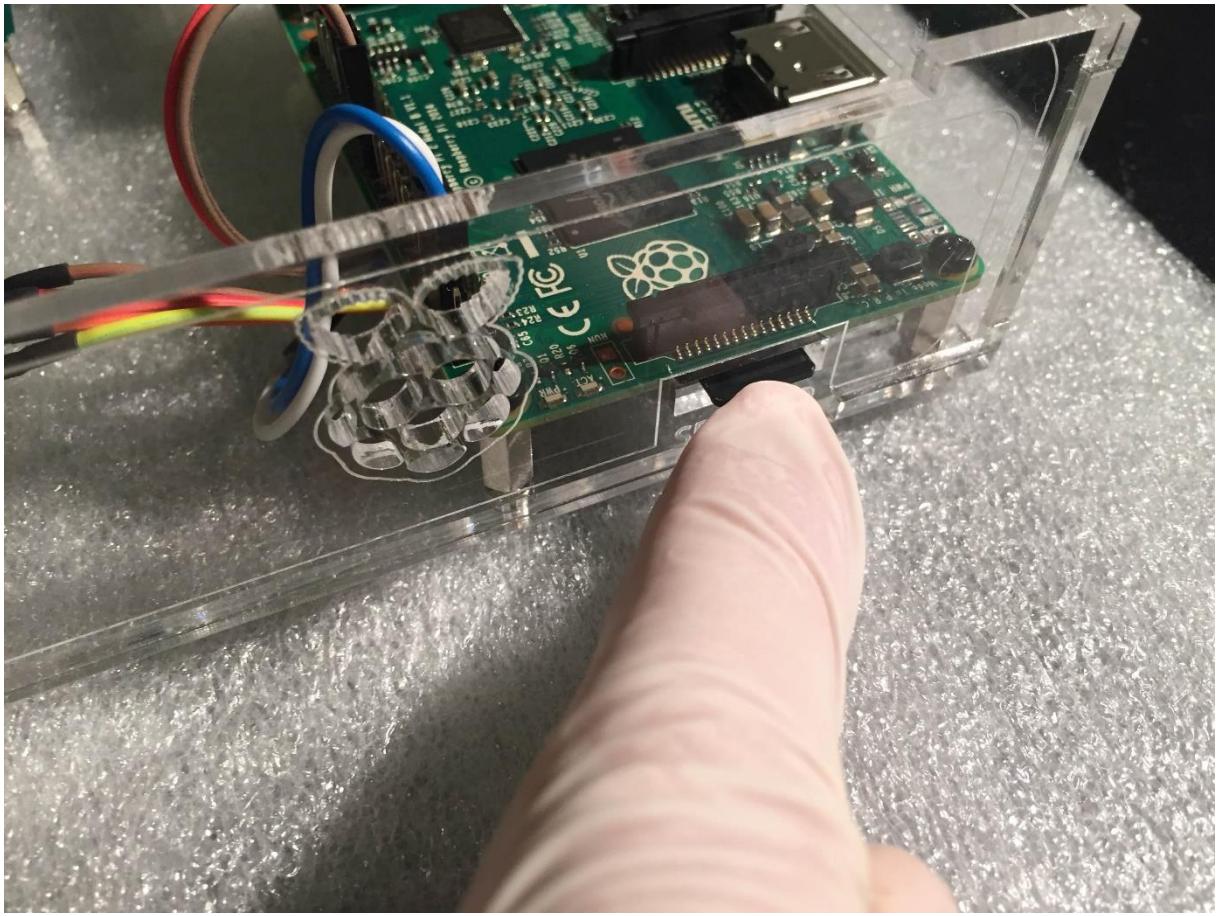


Apply glue as shown on picture

STEP 9: Mount (not glue) the top in place and insert you pre-installed micro SD card

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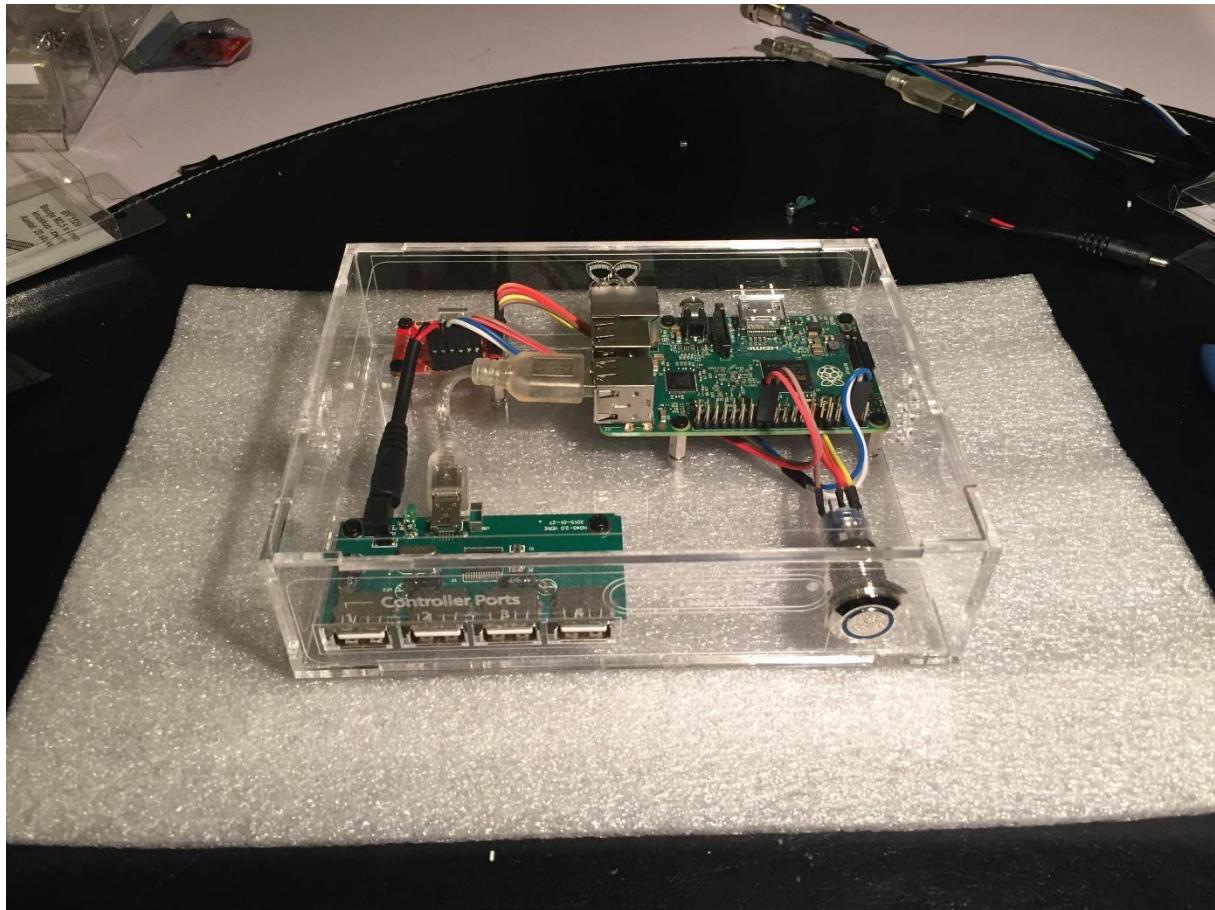


Press till it 'snaps' in place COPPER SIDE FACING UP

Note: press again to remove the micro SD card – DON'T PULL the card out with force as this will damage your Pi

FINISHED

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Connect your hand built Pi with a HDMI cable to your monitor or TV and connect a good 5V power supply to the Nin10do console (3A is suggested)

For operation of the Nin10do please check the Operational manual



Need help?

[Info@nin10dosshop.com](mailto:Info@nin10dosshop.com)

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