

OPERA ROTAS QUICK BUILD GUIDE

(rev 0.8-0.85, july 2020)

(rev 0.9, march 2021, needs a bridge, explained at the end of the guide)

SOLDER by this order

1-Leds (check polarity)

2-Switch buttons

3-4067 breakout boards

Read this only if your 4067 breakout is of the incorrect size. If it is correct solder it and jump to point number 4.

You can find one problem building this: If your 4067 breakout board does not have the correct size. There's 2 sizes, the correct one and one 0.1 inch shorter. I'm sending the correct ones but if you happen to source one of the incorrect size, just do the hack of the photo below. It's basically the same hack as on how to solder the OPL2 board. So you solder the 16 pins normally to the PCB but the 8 pins side, you put resistors legs.

4-Pots

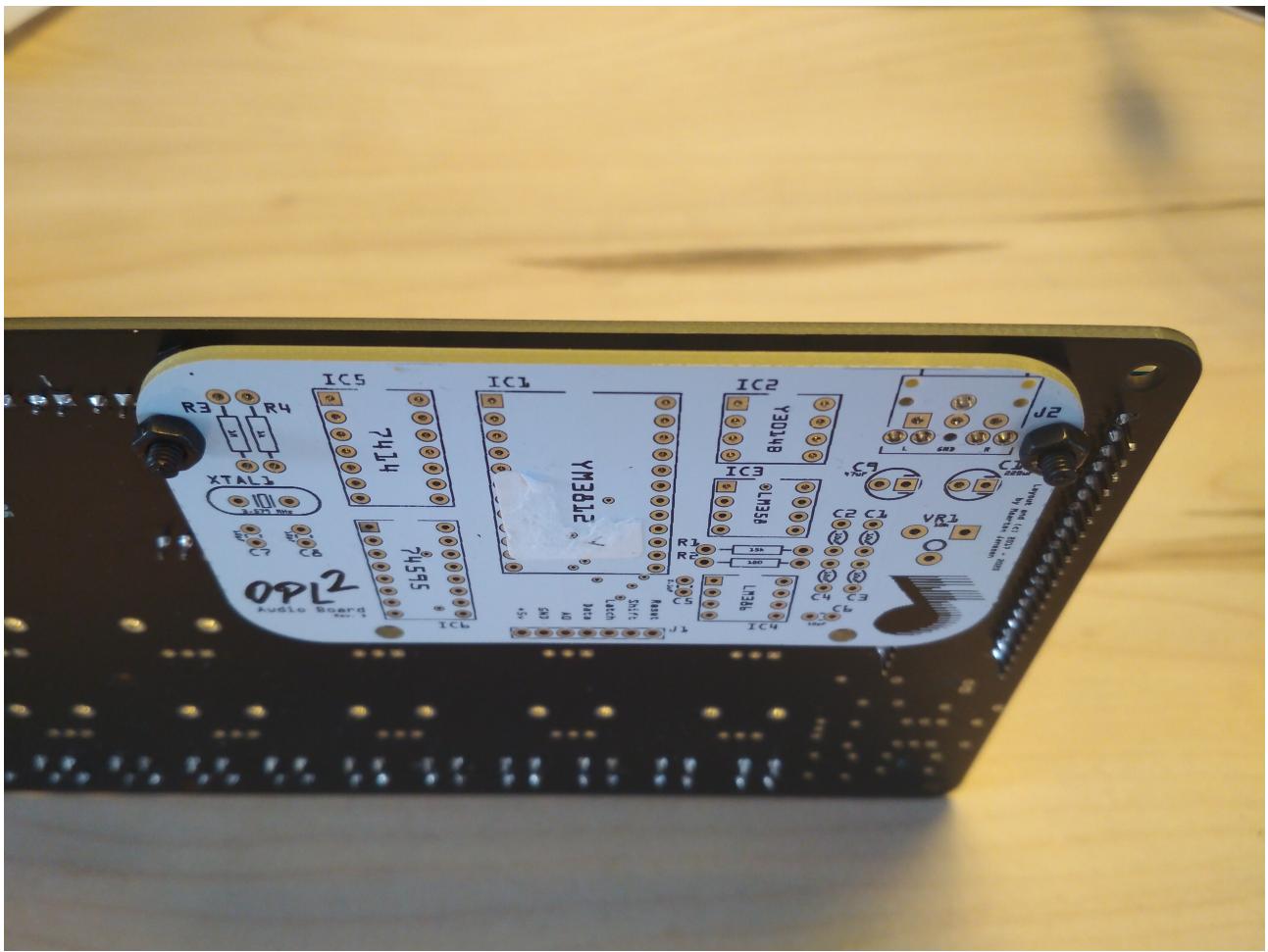
5-Resistors

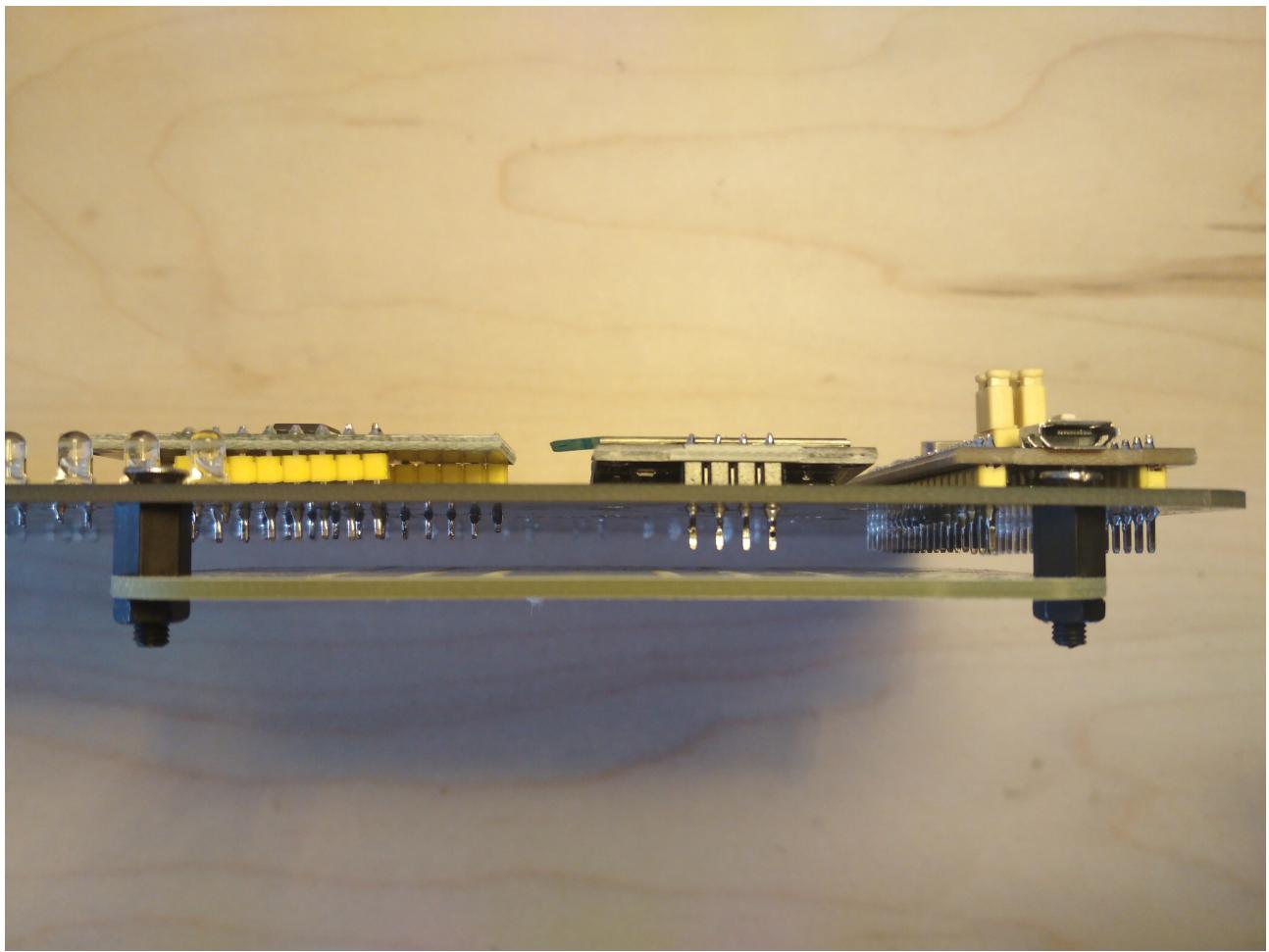
6-Bluepill board

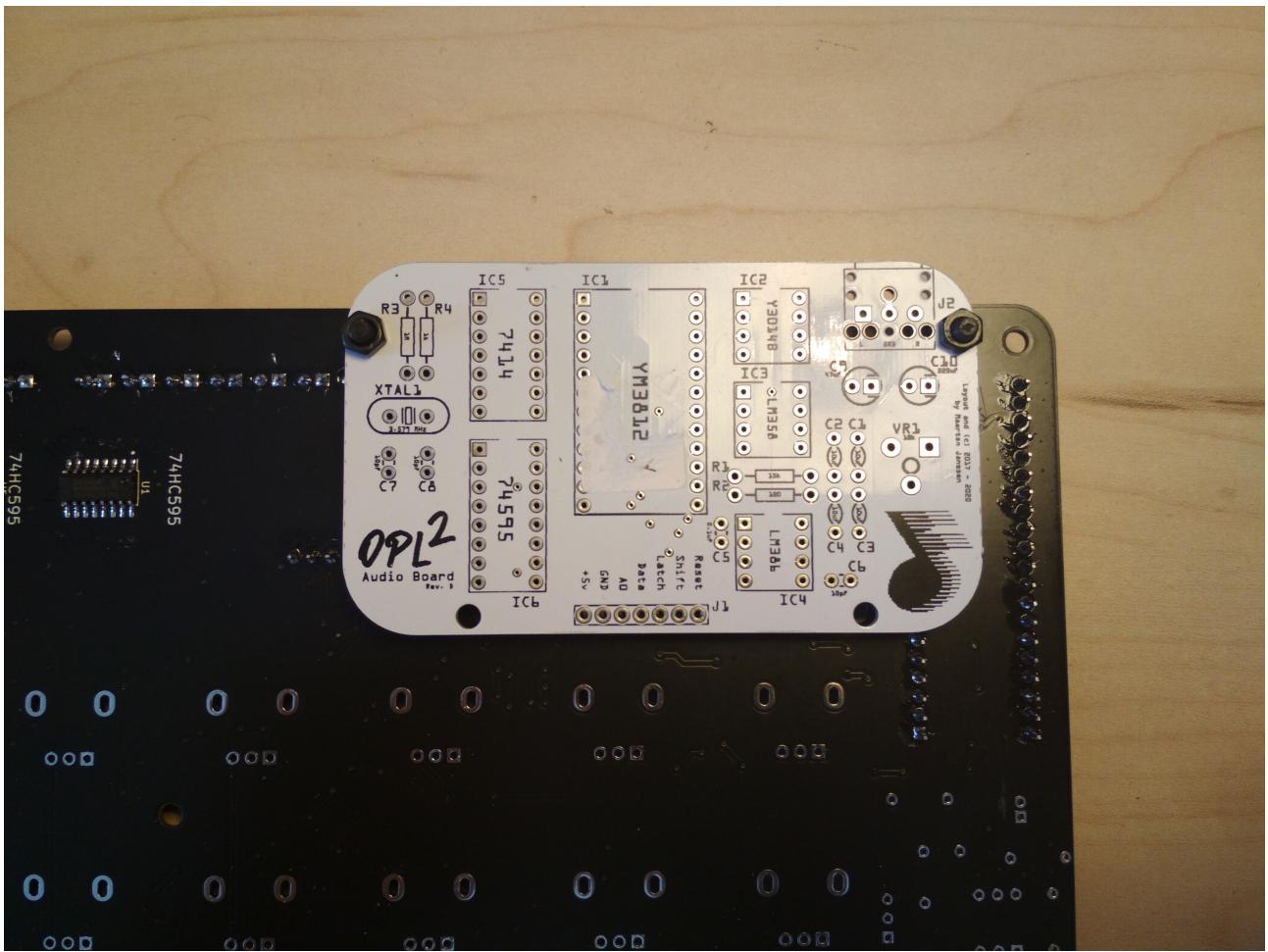
7-Screen

8-Rest (transistor, 4n35, diode)

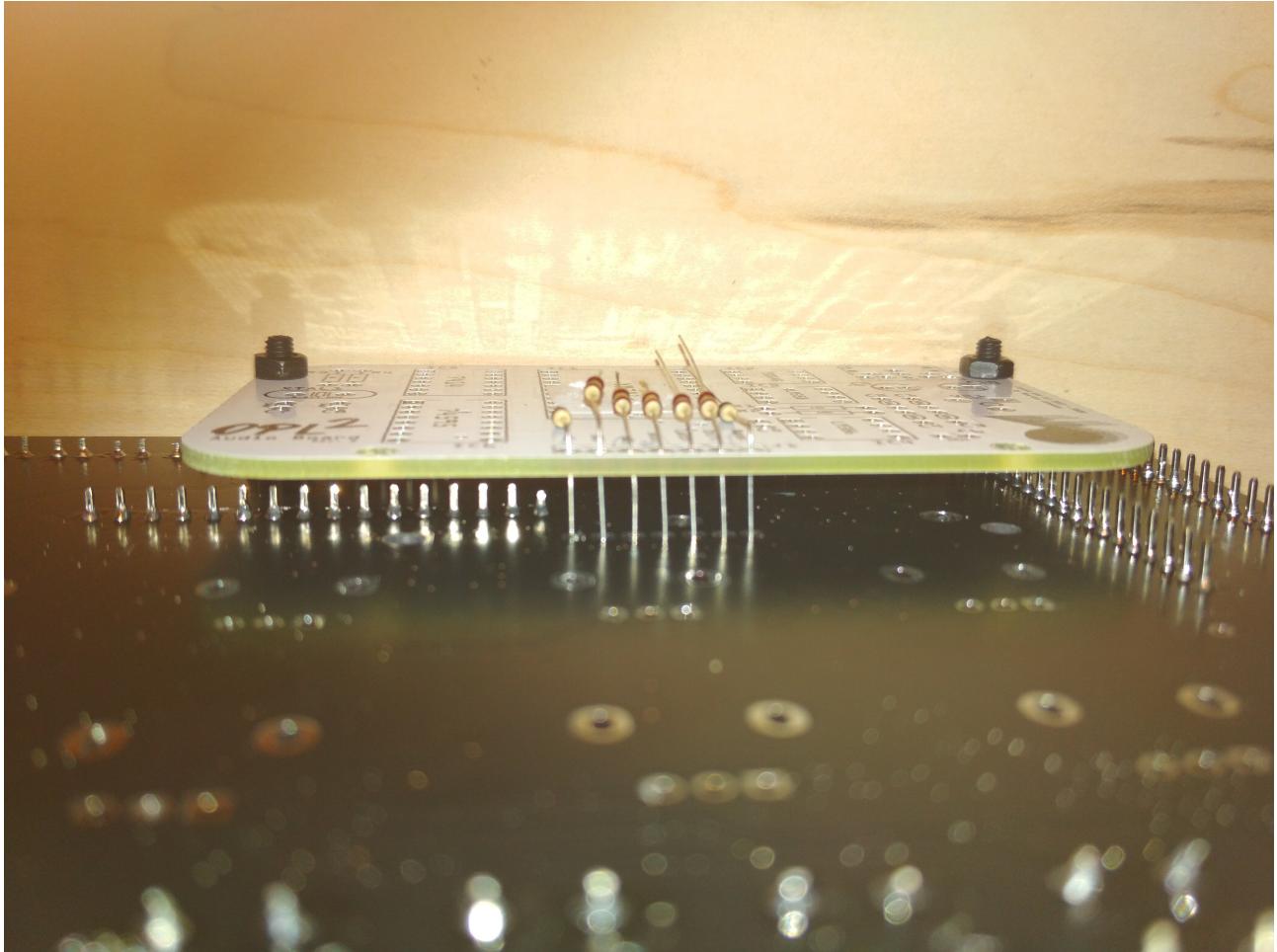
9-OPL2 Board. Build the Opl2 board first. Then screw the 2 spacers as shown in the photo. The OPL2 board needs to be in the same orientation as in the photo.







You can solder it with a standard 7 pins male header (which I dont recommend) or you can solder it using 7 resistors as show in the photo (recommended. It allows you to turn the OPL2 board in case you want to fix or hacking something. If you use the fix male header that is way more difficult in case you need to desolder it)



ONLY FOR REV 0.9 USERS

If you have a rev 0.9 PCB, you have to do a bridge as shown in the photo for the LEDs to work correctly.

