



# ASHIKO

build guide (≥1.2)



Hi fellow!

Just a quick intro before starting,

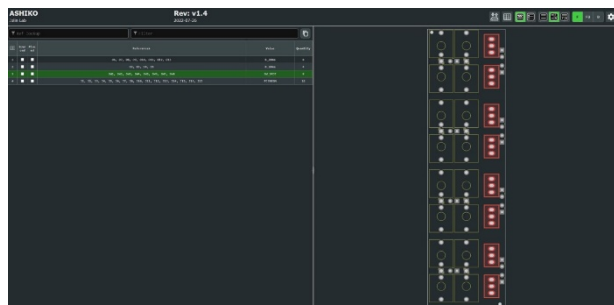
## what to have on hand

1. Soldering Iron - better if with temperature control
2. Solder wire
3. Cutter
4. Multimeter (optional)
5. Solder sucker / wick (optional)
6. Silicone soldering mat (optional)
7. Helping hands (optional)
8. Flux (optional)

If you want to refresh yourself a bit about soldering stuff you can watch [this video](#)<sup>1</sup> by GreatScott!

A tool that can help you checking the components on the board is the interactive bill of materials.

Download the .html *ibom* file and open it with a browser. You can use it to check where a component is located on the board. Once downloaded it works also offline.



Here are listed all the ASHIKO components, most of them are already pre-soldered on the board. We just need to solder the through hole ones (THT).

### **BE CAREFULL NOT TO TOUCH THE SMD COMPONENTS WHILE SOLDERING THE THT ONES.**

It's really easy to lose a tiny resistor or capacitor. Be careful when soldering parts that are close to others already in place.

now let's begin!

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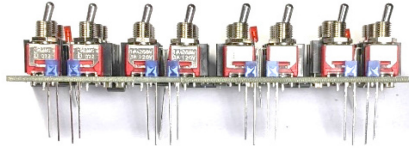
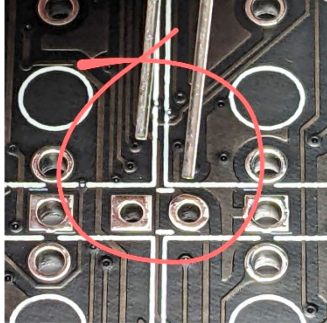
<sup>1</sup> <https://www.youtube.com/watch?v=VxMV6wGS3NY>

## LEDs, jack sockets, toggle switches

Wait to solder them: just place all of them in the right place and move to the next step.

LEDs: MIND THE POLARITY! Short leg goes into the square pin.

Switches: to reduce clearance tighten one nuts to the lever till the end.



8	D6, D7, D8, D9, D10, D11, D12, D13	Blue_20ma_squared_3mm
4	D2, D3, D4, D5	Red_20ma_squared_3mm
16	J1, J2, J3, J4, J5, J6, J7, J8, J10, J11, J12, J13, J14, J15, J16, J17	PJ398SM
8	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8	DWLP1_Sub_Miniature_ON-ON

do not solder yet

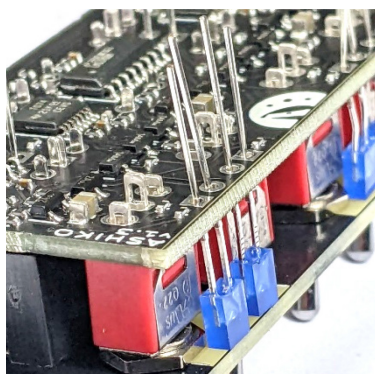
## front panel

At last, put the panel on and tighten the nuts.

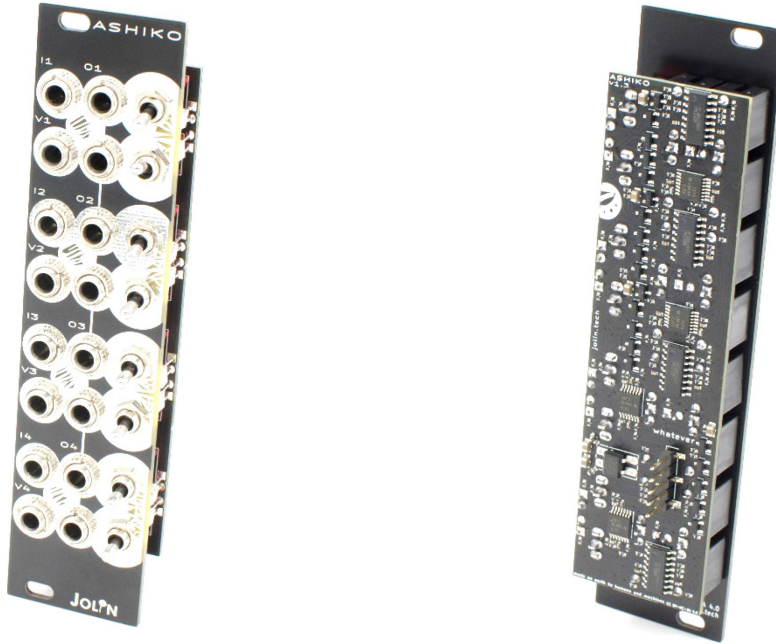
The LEDs should rest as close as possible to the panel to provide max brightness.

**Now solder all the front panel components.**

*tip: we are soldering them now to ensure that all the mechanical parts are aligned with the panel. This reduces the stress to the components.*



check if everything is in place and properly soldered.



done! enjoy your new  
**ASHIKO**

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