ASCOLTA

build guide
difficulty: ☆[1]

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Hi fellow!
Just a quick intro before starting,

what to have on hand

1. Soldering Iron - better with temperature control
2. Solder wire
3. A pair of tweezers
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[2] 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 fine also offline.
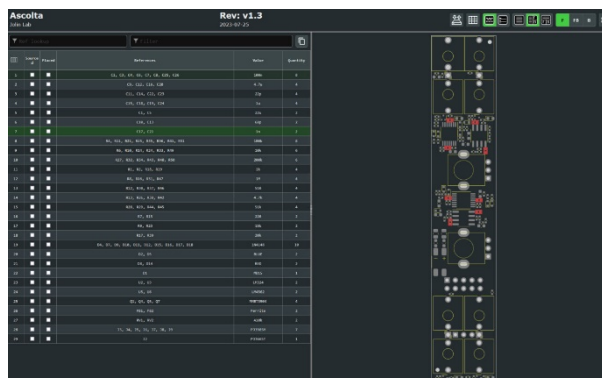
Here are listed all the ASCOLTA components; most of them are already pre-soldered on the surface of the board (SMD).
We just need to solder the through hole ones (THT).

BE CAREFUL NOT TO TOUCH THE SMD COMPONENTS WHILE SOLDERING THE THT ONES.
It's really easy to lose a tiny SMD resistor or capacitor. Pay attention when soldering parts that are close to others already in place.

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[1] 1/5-star modules are a good choice for a beginner. Even as first ever DIY.
[2] https://www.youtube.com/watch?v=VxMV6wGS3NY

now let's begin starting from the bottom layer – the back of the module.

eurorack power header + 1x3 pin header

Place the socket and the header matching the drawing on the PCB. Longer
pins needs to point outside.

> *tip: solder one pin and check. If the socked is aligned with the PCB
> solder all the other pins.*

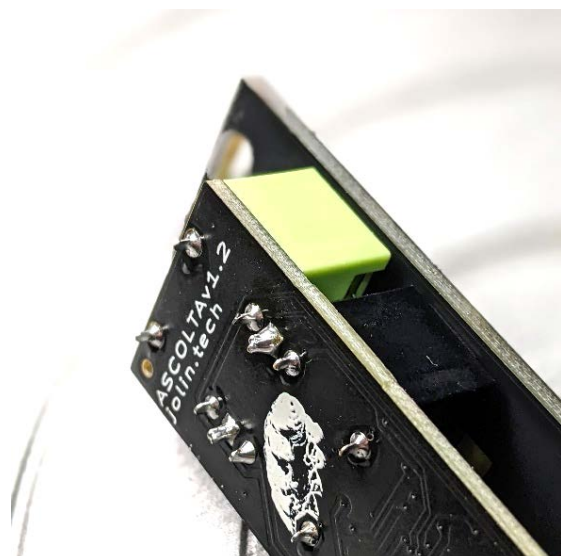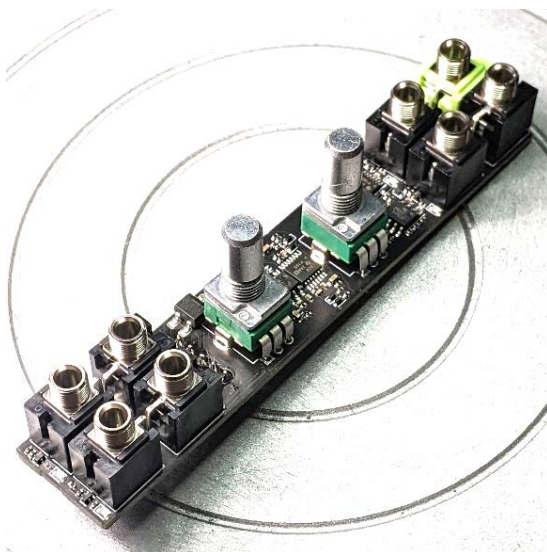| 1	J1	Conn_02x05_2.54mm
1	J10	Conn_01x3
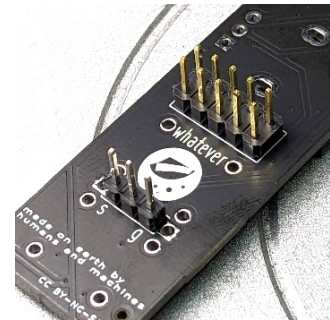
now flip the board (front layer):

jack sockets, stereo socket, potentiometers

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

> *be careful on the position of the green socket. Follow the pictures.*

2	RV1, RV2	A10k - potentiometers
1	J2	PJ366ST – *green socket*
7	J3, J4, J5, J6, J7, J8, J9	PJ398SM aka *"Thonkiconn"*

Position the **jumper** - the squared black piece of plastic - on the three pins header.
Refer to the *manual* to choose where depending on your normalization needs.

front panel

At last, put the panel on - <u>check its direction</u> - and tighten the nuts.
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.
Place the knobs, tighten the screws and we are officially done!

> *An easy one this time.*

before powering it up

- Check the power header for shorts with a multimeter.
  > *tip: follow <u>this tutorial</u>[3] by Quincas Moreira - aka SynthDiyGuy if you have any doubts on how to perform this procedure.*
- *Mind the polarity on the header socket of your PSU, remember that red line is -12v*

done! enjoy your new
ASCOLTA

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[3] https://www.youtube.com/watch?v=qS0SoIiiQCo