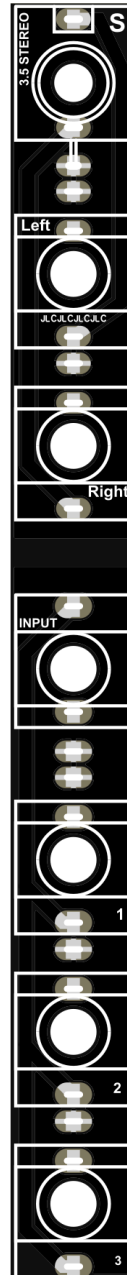


SPLIT & MULT BUILD GUIDE AND MANUAL



Hello fellow DIYer!

Thank you for purchasing the SPLiT & MULT D.I.Y. kit. This is a simple useful passive module for your Eurorack system.

The module once built contains two separate sections.

Top half is a stereo splitter which allows you to either input stereo devices into your eurorack or vice versa. Please be aware that as this is passive and will not boost or reduce input/output audio levels so you would need to attenuate/amplify signals using modules such as the Music Thing Modular-Mikrophonie(amplify) or the AT-AT-AT Attenuator(reduce) from Thonk(or similar devices).

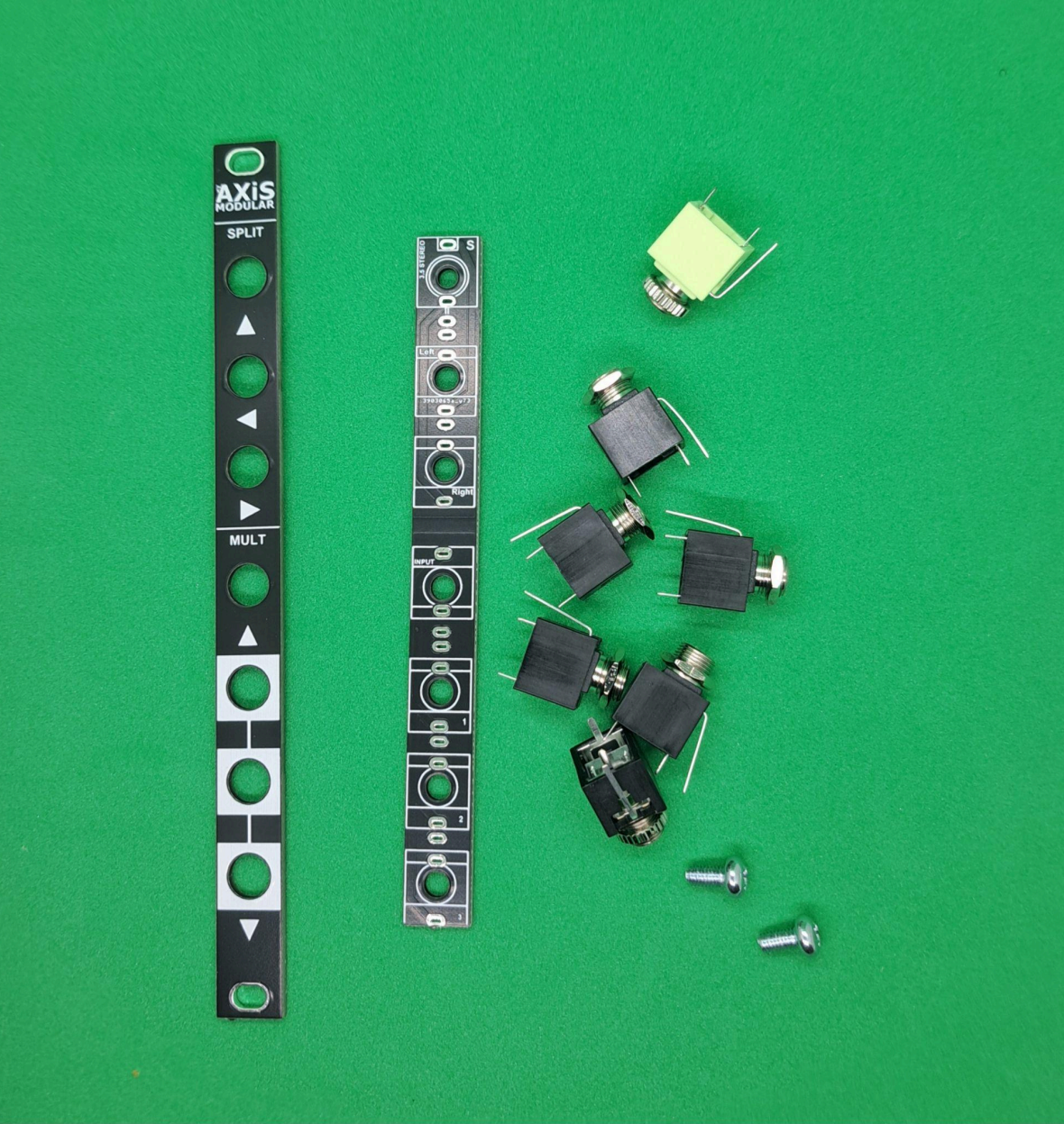
The bottom half is a multiple. You will find one input and three outputs(or you could use it as a passive mixer of course). The input essentially splits to all the outs. As mentioned, this is passive so expect a signal drop when using the outputs.

This is an ideal first time DIY soldering project for you as there are very few parts and it has been designed carefully so that it should be easy to build first time. It is passive so it takes no power from your system and is only 2 HP in size.

If this is your first time soldering please check out this useful guide [here](#).

By undertaking the construction and soldering yourself you agree that it is your responsibility to complete the final build safely and confidently.

This kit is sold exclusively through Thonk and you can find full terms and conditions [here](#).



Bill Of Materials

PART	DESIGNATOR	
1 x Stereo Thonkiconn (Green)	S	

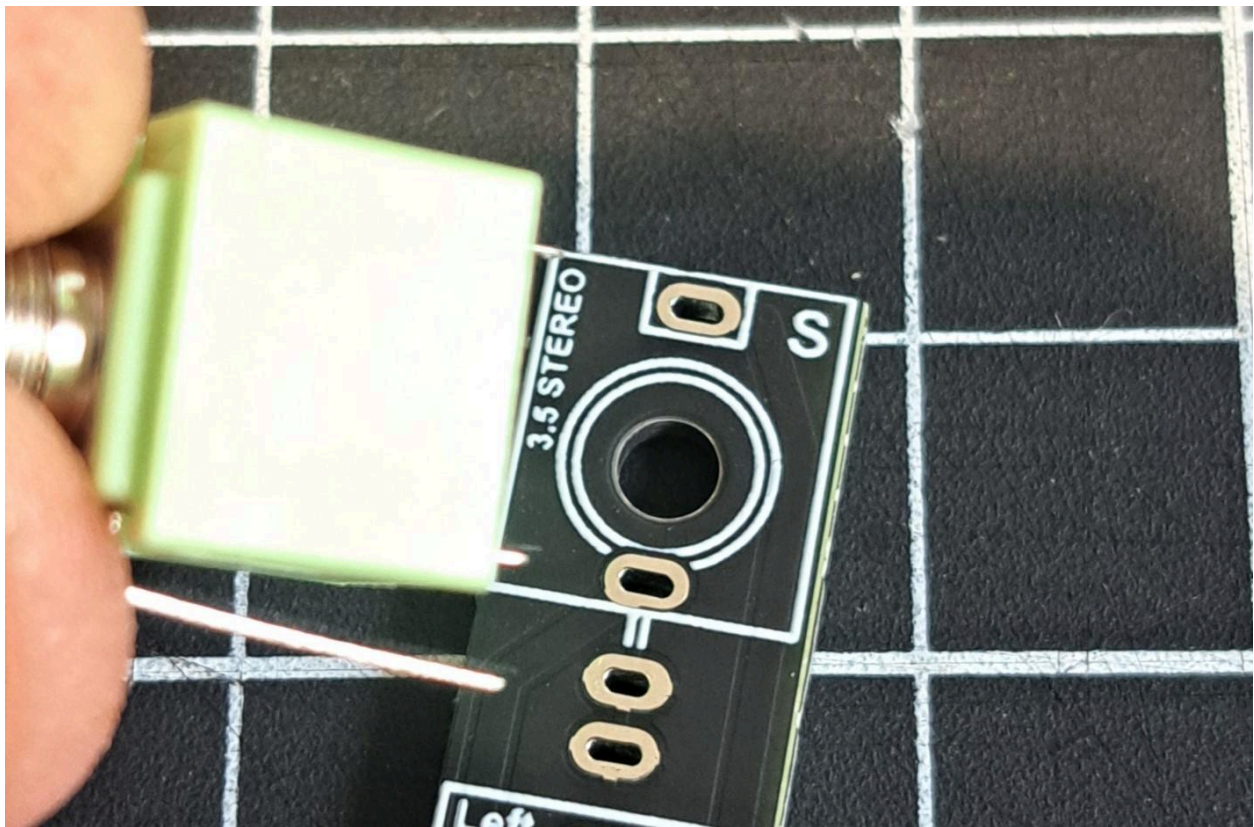
6 x Mono Thonkiconn (Black)	Left, Right, Input, 1, 2, 3	
7 x Nuts		
1 x SPLIT & MULT Front Panel		
1 x SPLIT & MULT pcb		

BUILD PROCESS

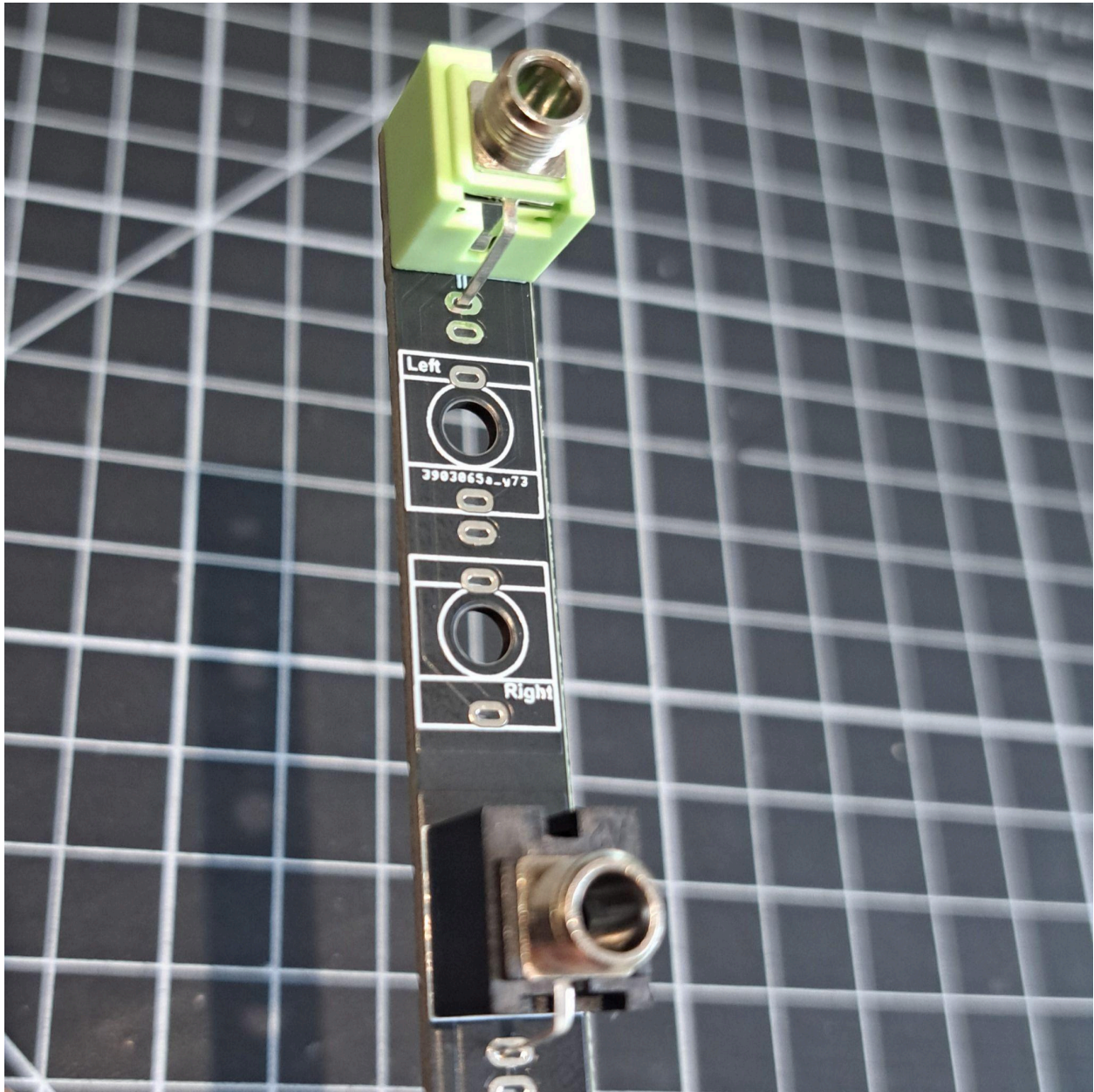
First, grab the green stereo jack and the PCB. Place the Jacks where the silkscreen



displays the 'S' (S is for Stereo).

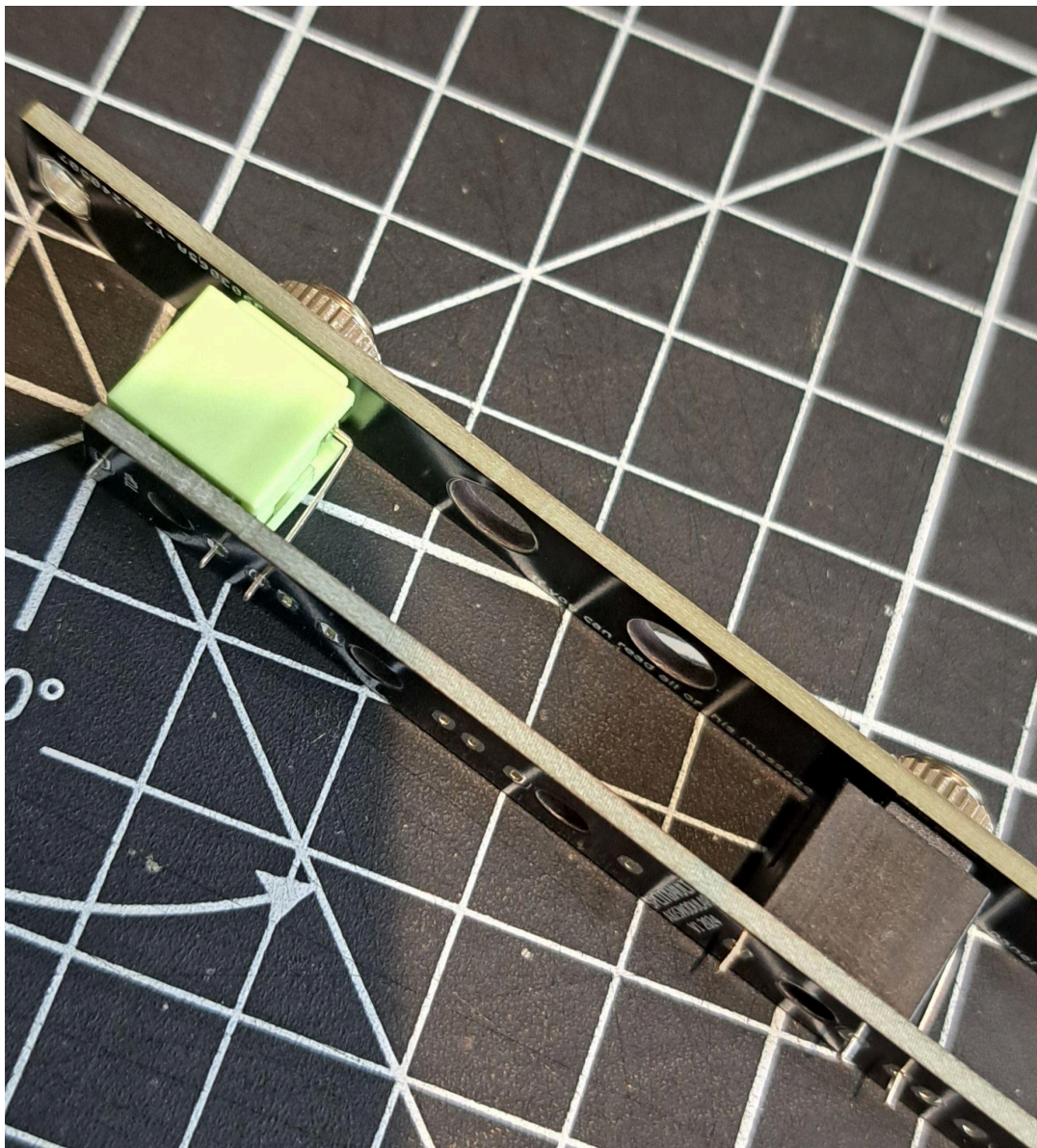


Then grab one mono black jack socket and insert where it says INPUT just below the right channel silkscreen.



Next, grab the front panel and place over and onto the jacks and finger tighten the two round knurled nuts. Remember to keep hold of the panel and PCB(or use an elastic band or masking tape wrapped around to hold them in position).

Note: Make sure the jacks are in the correct position when in the panel as shown.



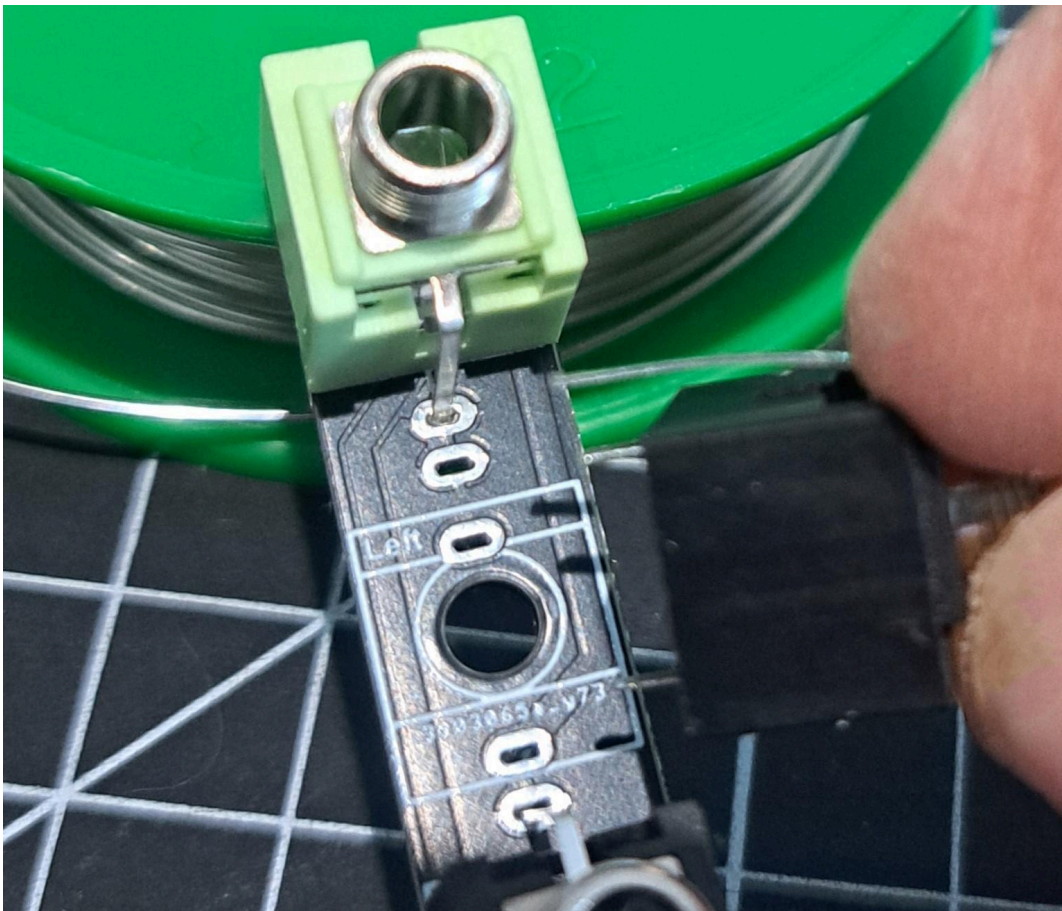
Now, turn over the panel and PCB and solder the jacks into place.

Tip: Solder one leg first and make sure the jack is straight before soldering the other two. If it needs adjusting then simply reheat the leg and carefully straighten the jack before attempting the other connections.

Now that the first two jacks are done, untighten the nuts and remove the front panel.

Place the rest of the mono jack sockets onto the PCB. Be careful of orientation. They should all go round the opposite way to the stereo and input jack.

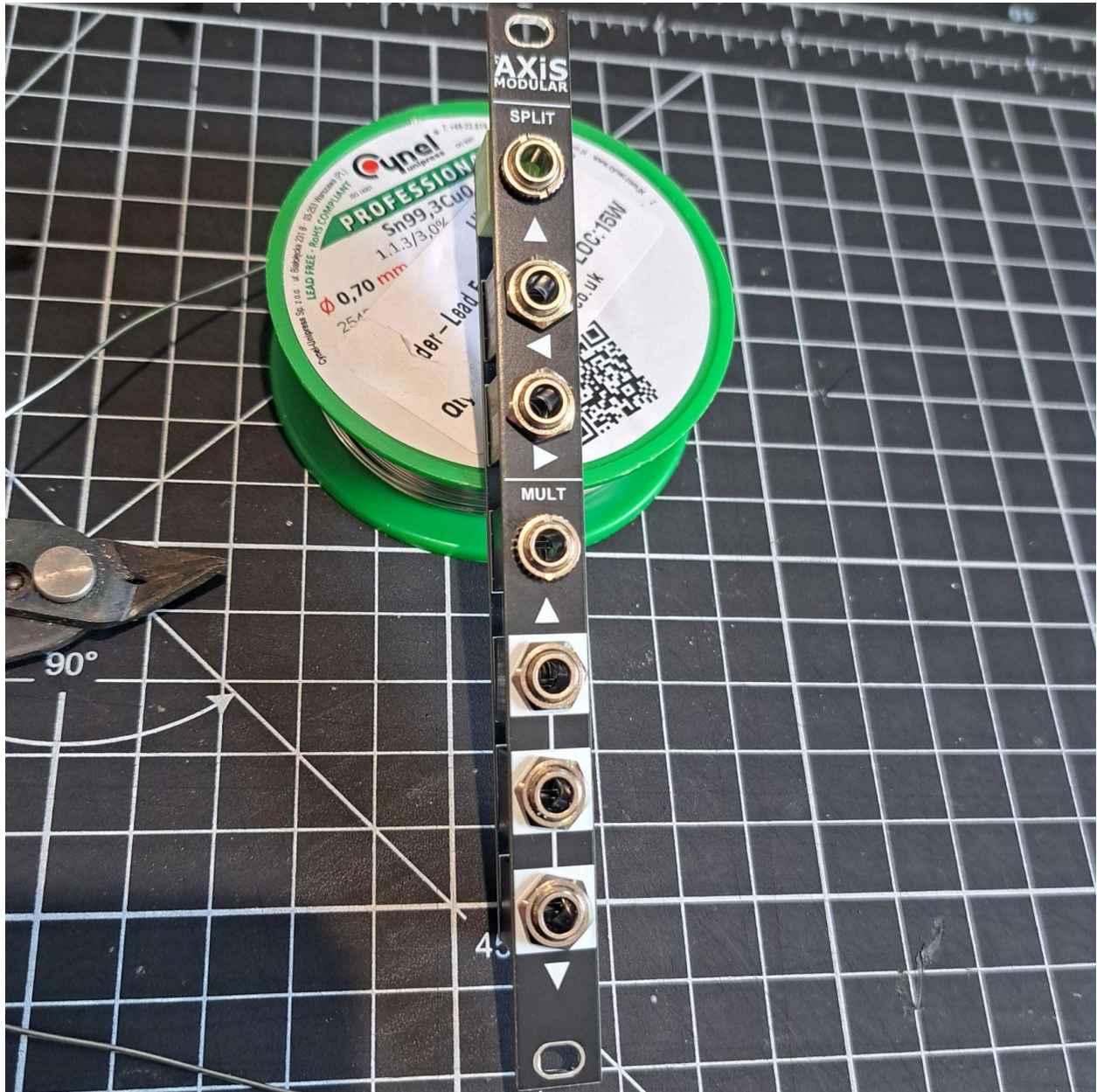
Place the panel back on and put the knurled nuts back onto the already soldered jacks. Now you can place and finger tighten all the other jack nuts.



Make sure the jacks are straight and sitting nicely and that the panel is laying flat, turn over and solder all of the mono jacks in place.



Once soldering is done you can either trim the legs of the jacks or keep them as is (they don't stick out too far).
Check all your solder joints for any bridging or cracks and reflow as needed, then clean the PCB using a Flux cleaner.
Now you should be good to go!



SPLiT and MULT usage and tips and tricks

Now that the module is part of your system what can be done with a seemingly simple little 2 HP utility??

Here are some ideas and uses:

- Plug in an iPad/iPhone and split out left and right channels to route into your system. You'll probably need to boost the signal on each channel after. How about using the 2XiNPUT module for this job??
- Use a pocket Operator connected with a stereo cable to use its sync output and audio with your Eurorack system.
- Connect your Korg Volcas.
- Output your favourite eurorack module into a Korg NTS-1 or MiniKP for audio FX processing and back into your Eurorack for further patching.
- Send a clock out to 3 devices using the Multiple section.
- Send LFO cv signals out to multiple modules and so on.

Warning note: *Please do not use the module as a headphone output. You may damage your headphones due to the extremely high output from Eurorack systems. Always use the correct equipment such as a purpose made headphone output module. I will not be held responsible for any damages.*

Thank you and go make some noise.



SPLIT



< Stereo input/output



< Left output/input



< Right output/input



MULT



< Input/output



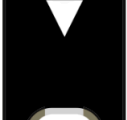
< Output 1/input



< Output 2/input



<Output 3/input



TECH SPECS

Width: 2HP

100% authentic analogue.

Module Depth: Teeny

Power consumption: Zero

High quality parts sourced from UK suppliers excluding PCB's.

Panel and PCB: FR4 Lead Free

Packaging recyclable where possible.

SPLIT & MULT Manual v1.0 May 2024