



THONK SYNTH τ02 DOA

DUAL OFFSET ATTENUVERTER

Eurorack DIY Kit Build Instructions

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OVERVIEW

For the most recent version of this document please visit http://thonk.co.uk/documents/springreverb/

This document should be used in conjunction with the relevant user manual.

All Thonk kits are sold under our standard Terms and Conditions - http://www.thonk.co.uk/fag/

DIY INSTRUCTIONS

This document gives detailed instructions that assume you have purchased a complete kit from www.thonk.co.uk. It also assumes no previous knowledge of electronics. To learn to solder try http://youtu.be/l_NU2ruzyc4 and the Adafruit guide to excellent soldering – http://bit.ly/1177tF4

Watch and understand that whole YouTube video! If you're not achieving the results shown in the video then you need to buy new tools or seek advice.

You will not end up with a working module otherwise.

TOOLS REQUIRED

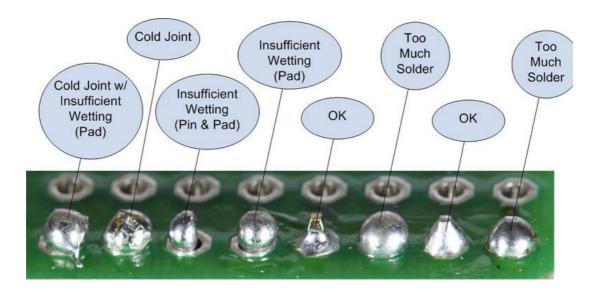
Soldering iron, snipe nose pliers, wire strippers, small flat head screwdriver and diagonal cutters AKA snips AKA side-cutters. A Digital Multimeter is always helpful for checking for bad solder joints and continuity. Thonk sell a range of inexpensive tools here - http://bit.ly/1jxqF3n



SOLDER JOINTS

Your solder joints should look like those shown as 'OK' below, they should have that neat conical shape on BOTH sides of the PCB. If they don't look the same on both sides then stop! Work out why from the soldering guides linked and don't continue until you are getting those results.

This isn't just OCD talking, you are very likely to end up with a destroyed, damaged or defective unit if you're not hitting that standard.



This photo is from the **Adafruit guide to excellent soldering** - http://bit.ly/1jxqF3n and is reproduced under an Attribution-Sharealike creative commons license - http://creativecommons.org/licenses/by-sa/3.0/



BUILD INSTRUCTIONS

1.

First take the main board and solder the 2x5 power header to the rear of the board (the side without the SMD components).

Check that this is soldered flush to the board by first soldering one pins and reflowing and adjusting where necessary.



2.

Take the PCB and after removing the jack nuts place all the Green pots, blue trimmers and thonkiconn jacks on the board.

DON'T SOLDER YET – follow the remaining steps before resuming soldering at step 9.

3.

Place three of the provided silver washers onto each of the green pots.

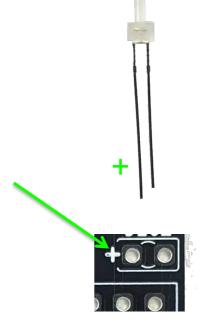
These will help keep the components level between the panel and PCB.



4.

Place the two clear bi colour LED's.

CHECK ORIENTATION – these components are polarized and must be placed as pictured with the long leg inserted into the pad marked with '+'.



5.

Place the panel and secure the pots and jacks with the remaining nuts, tighten firmly to hold all components in place but don't overtighten.

Use masking tape or similar placed over the LED holes to keep them flush against the panel whilst soldering.



6.

Solder all 36 pins on the control board checking that all components stay lined up between the panel and PCB during the process.

7.

Add the knobs with caps to the two pots labelled 'ATTEN'.

8.

Finally attach the power cable.

IMPORTANT

Be sure to follow the polarity by lining the red stripe on the cable up with the marking on the PCB. You will not end up with a working module if you fail to do so. Picture shown for reference.



9.

The module is now complete – follow the user manual and the link to the Thonk website for general module info.

https://www.thonk.co.uk/shop/thonksynth-t02-doa-kit/