

NOH



CENTRAL - Build Guide

V1.0

Introduction-

This build document aims to help you with the assembly of the module. It is of an intermediate difficulty and is not recommended as a very first build.

It is highly recommended that you read through the entire guide once before starting with the assembly.

Soldering a module together is always a relaxing and gratifying moment when done properly, don't hesitate to take breaks when you feel you need to and double-check steps before progressing in your assembly.

Requirements-

To complete this build you need:

- A Soldering Iron and Solder
- Pliers and Side Cutters
- A Multimeter (optional but **extremely** recommended for testing continuity)
- Safety Glasses for assembly

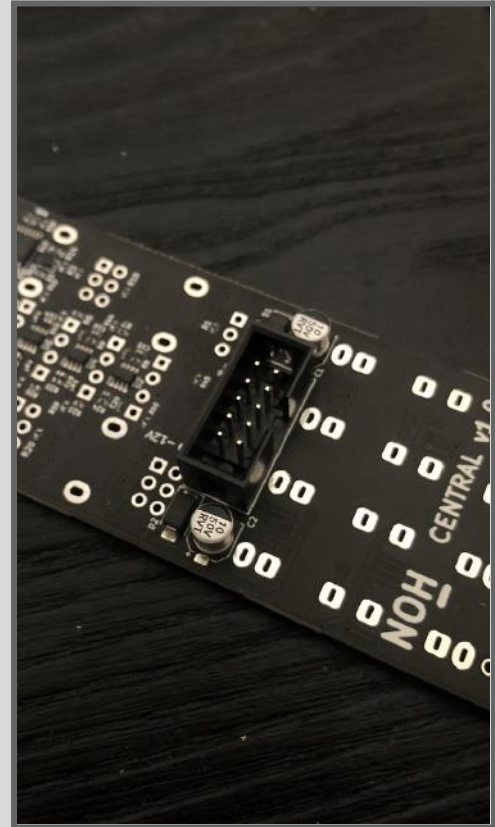
Make sure you also take a look at the Bill of Material (BOM) to check whether you have all the required components to complete the build.

Printer Friendly Version-

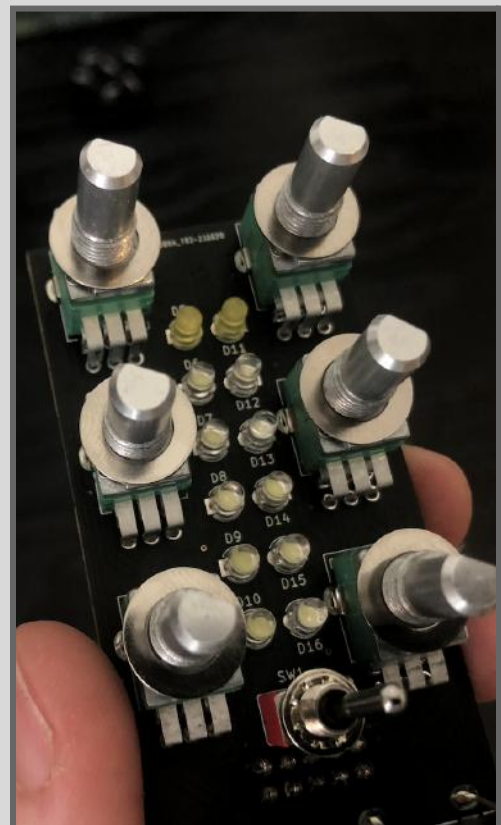
To print this document on paper, the grey background might not be a good thing for the printer.

You can download and print [THIS VERSION](#) instead.

- Start by placing the keyed header, be mindful of its orientation and match it with the indication on the PCB.
- You can solder a pin on each side, check whether it sits flat on the PCB and solder the rest of the pins if it does.
- **NB** - Putting the header now will make the assembly faster but soldering next to it will be finicky. You can solder the keyed header at the very end of the build instead.



- Turn the PCB and mount the potentiometers, the LEDs, and the switch but **DO NOT SOLDER ANYTHING**. Simply mount them on the PCB.
- the two different LEDs (the yellow ones in the picture) go at the top. **The shorter leg of the LEDs go in the square pads.**
- If the potentiometers struggle to fit, you can flatten the mounting pins with pliers.



- Mount the jack sockets, the stereo jack sockets go on each bottom corner (see picture for reference). Again:

DO NOT SOLDER ANYTHING YET.

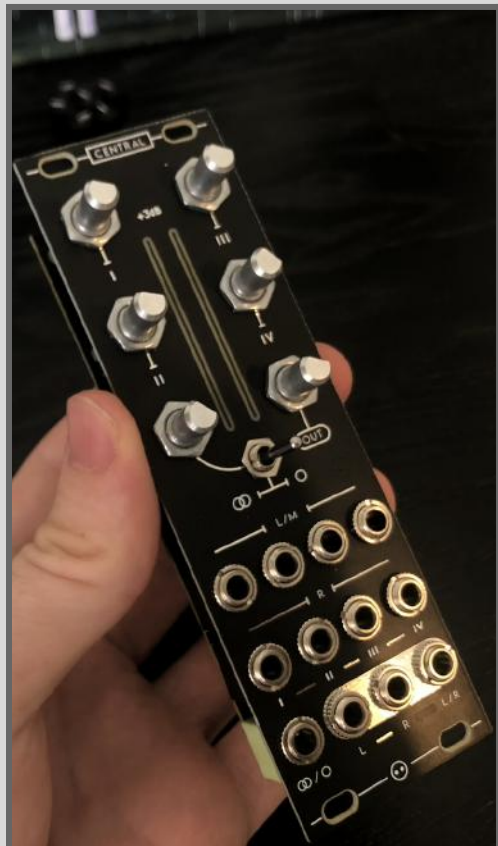
- **NB** - the two rows of sockets on the bottom share the same ground pin, as shown in the picture (circled in pink).



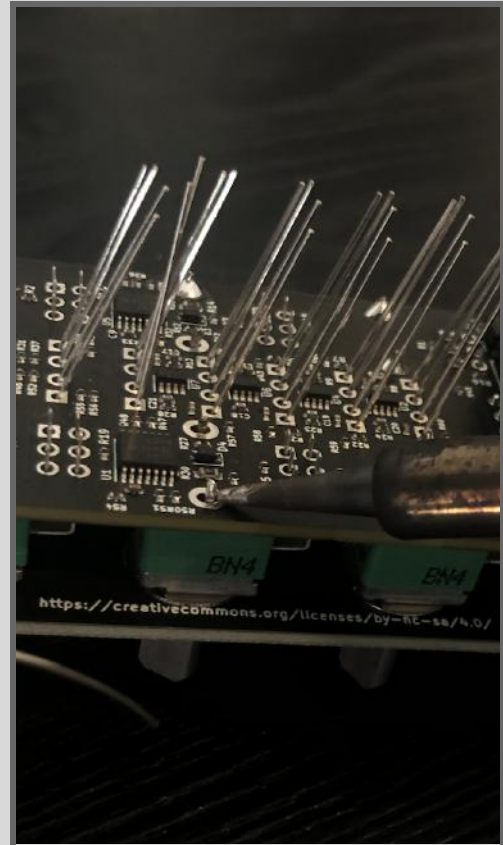
- Put the spacers on each component (pots and switch) before putting the front panel if you haven't already.

- Put the front panel and hand-tighten the nuts for each part. Be mindful that nothing has been soldered yet so components might disconnect or go out of place.

DO NOT SOLDER ANYTHING YET.



- Once you have verified that all the components sit flat on the PCB, you can solder them. Clip the leads when your LEDs are soldered.
- **NB** - the LEDs can either sit flat on the PCB or be pushed towards the front panel before soldering. However, the diffused light and the 3D printed guide will work best if they sit flat.
- Always be **extremely** careful of where your soldering iron is when you solder, it should always be oriented as far as possible from components on the board.



- Once everything is soldered and thoroughly checked, untighten the front panel and insert the 3D printed LED guide. This will prevent one channel bleeding to the other channel's display.
- **NB** - This is the point where you can solder the keyed header if you didn't do it at the start. Again, be mindful of the header's polarity and where your soldering iron is to prevent damage.



- Once everything is in place, you can put the front panel back on and tighten the nuts.
- Put the knobs on the potentiometers to complete the assembly part of the build.



Inspection -

While the assembly might be finished, **it is not a good idea to plug power through before inspecting the module.**

- Start with a visual inspection, looking for any pins you forgot to solder, pins you soldered too much and shorted to other pins, or bad solder joints.
- Check the polarities of components where polarity matters (Power Header and LEDs).
- Look for any damage on the board, specifically whether tracks or components got damaged.
- Finally, using a Multimeter, check for shorts between the power pins (12V to GND, 12V to -12V, and GND to -12V).

Conclusion -

This guide went through the assembly process of the module and what to be careful of when building it. If you haven't already, you can read the user manual to know what the power requirements are and how to operate it.

You can find this build guide, and other important documents regarding this module and others on the [NOH-Modular website](#).

I hope you'll find good and interesting use out of this module.

