



**Noise Complaint!** Quad Normalized Attenuator Assembly Instructions -  
Eurorack 1U  
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Hello and thank you for building the Noise Complaint! Quad Normalized Attenuator for Eurorack modular. We hope you will find it to be good for attenuating stuff!

### Technical Specifications (Intellijel 1U)

Width: 22 hp

Depth: 25 mm

Peak Current Draw: 0 mA (Passive)

### Assembly Instructions:

1. If you want any or all channels of the Noise Complaint! to have an Audio (Logarithmic)-style taper, solder resistors into the corresponding positions marked "RTaper1-4", using either hot air or a soldering iron. The value of these resistors should be approximately 15% of the value of each potentiometer, e.g. 15k for B100k pots or 7.5k for B50k pots (6.8k will work for B50k too, changing the taper slightly). It's probably a good idea to use four of the same value of potentiometer for this module, rather than mixing B50k and B100k.
2. Prep the three Mute switches. Thread one nut onto each switch and set the other three aside.
3. Place all hardware into the corresponding footprints on the side of the PCB that says "HARDWARE GOES ON THIS SIDE." It's probably easiest to place Pots first, then Thonkiconn jacks, and finally the three SPDT On-On Mute switches. **Do not solder these parts yet!**
4. Place metal washers over each of the four Potentiometers while they are sitting on the PCB.
5. Fit the Noise Complaint! panel over all the hardware, making sure that nothing slips out of place.
6. While holding the PCB securely against the panel with hardware sandwiched in between, hand-tighten nuts around the 4 Pots, 3 Mute switches, and 8 Thonkiconn jacks so that they do not rotate easily and the hardware is all snug against the panel.
7. With the PCB facing up and panel facing down, double check that all hardware is properly seated in the appropriate PCB holes. If it is, solder all the parts, making sure to hold the panel and PCB together until enough joints are soldered that the hardware holds the panel in place.
8. Double check your work. Make sure every single leg of every single component is soldered in place. For some reason it's easy to miss an unsoldered SPDT switch, so these might be worth *triple*-checking.
9. Test each channel's functionality. Feed a control voltage to the Input of Channel A and patch that channel's Output to the CV In of another module you are familiar with, and monitor the behavior. The corresponding Channel Mute should interrupt this Control Voltage and cause the channel to output a flat 0V instead when in the Down position. Do this with each channel, and test the Input Normalization as well.
10. Once everything is confirmed working, place Brass Potentiometer Adapters (if included) and Knobs over each Potentiometer, and use a tool if you have one to tighten the nuts around each Thonkiconn jack, and mount the Noise Complaint in your case. You are ready to rock!

*Enjoy your Noise Complaint!*