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Patching Panda Particles Eurorack Trigger Modulation

Specifications

- Pre-assembled electronic components
- Delicate high-tech electronics
- Includes male pin headers, metal spacers, mini PCB, and jack connectors
- Electrostatic Discharge (ESD) protection
- 23 illuminated push buttons

DIFFICULT GRADE

- To assemble your new module, follow the steps provided on the next few pages. While all electronic components are pre-assembled, you will need to install and secure the hardware components.
- It’s crucial to verify that all mechanical parts are properly aligned and placed correctly before soldering. Be sure to double-check the orientation of each component to ensure everything is installed correctly.
- Follow each step in order, and handle the components with care, as they are delicate high-tech electronics.

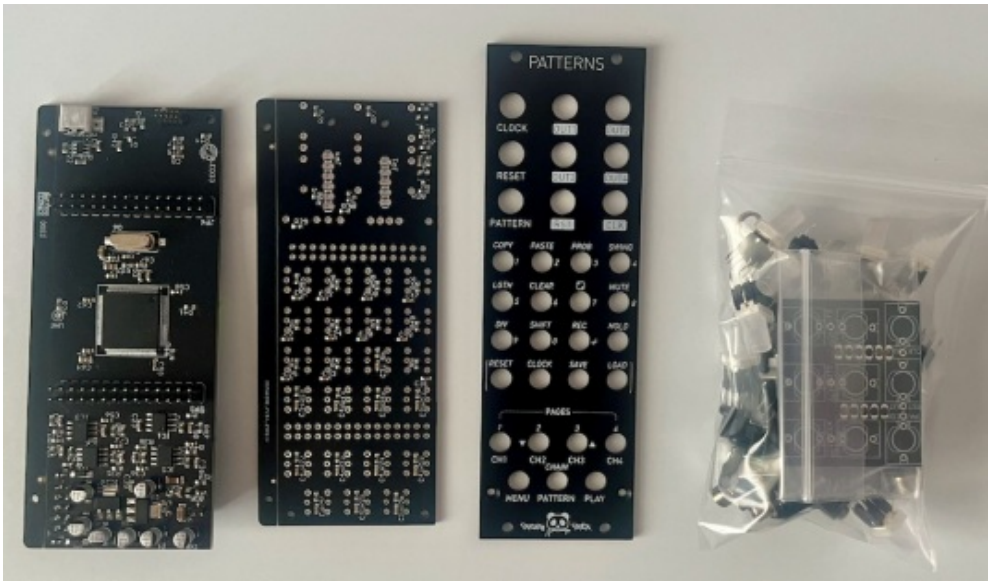
A Note on Electrostatic Discharge (ESD)

Electrostatic discharge (ESD) occurs when static electricity builds up and discharges, such as the small shock you might feel when touching a metal doorknob. ESD can damage sensitive electronic components. To protect your module circuitry during assembly:

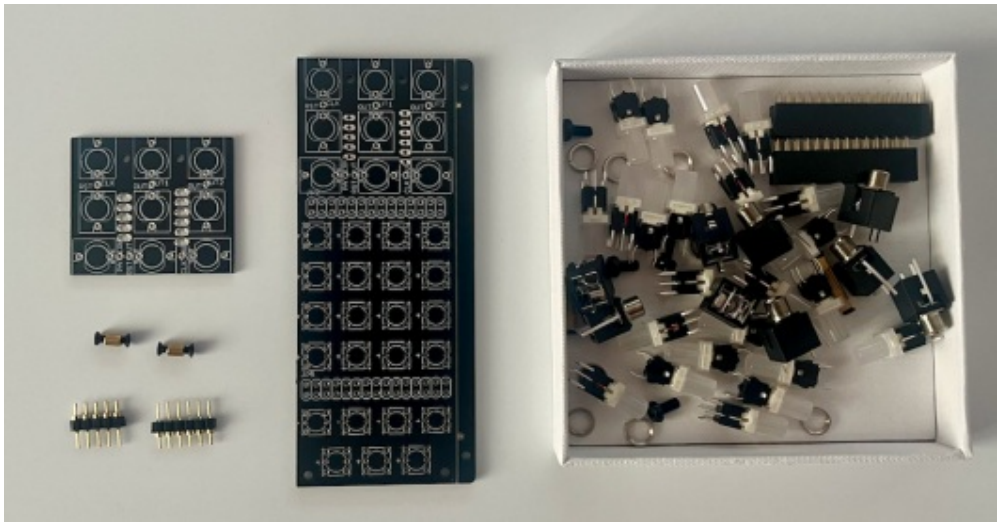
- Ground yourself by touching a metal surface or a grounded object before handling the circuit board.

FOLLOW THESE STEPS FOR BUILDING THIS KIT

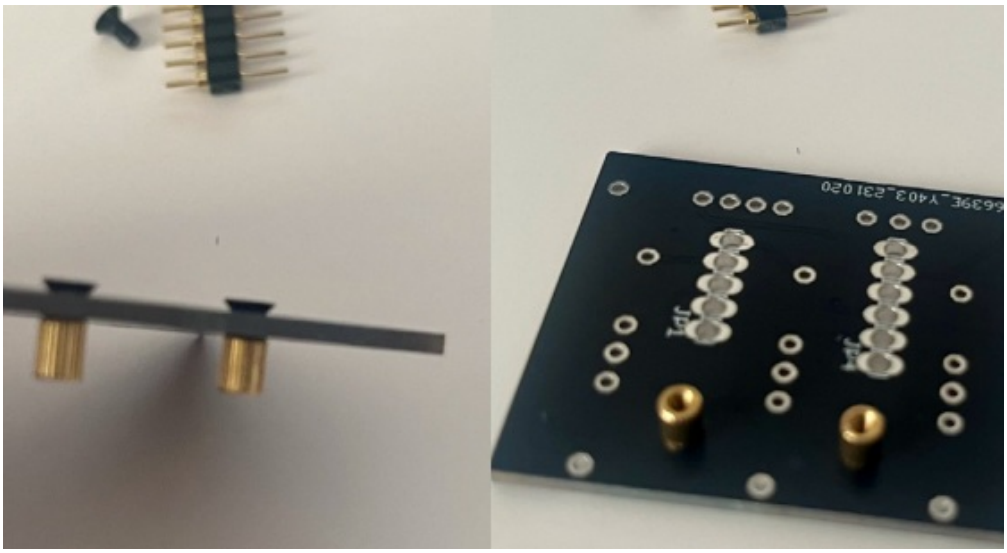
1. Prepare the parts to begin the assembly process.



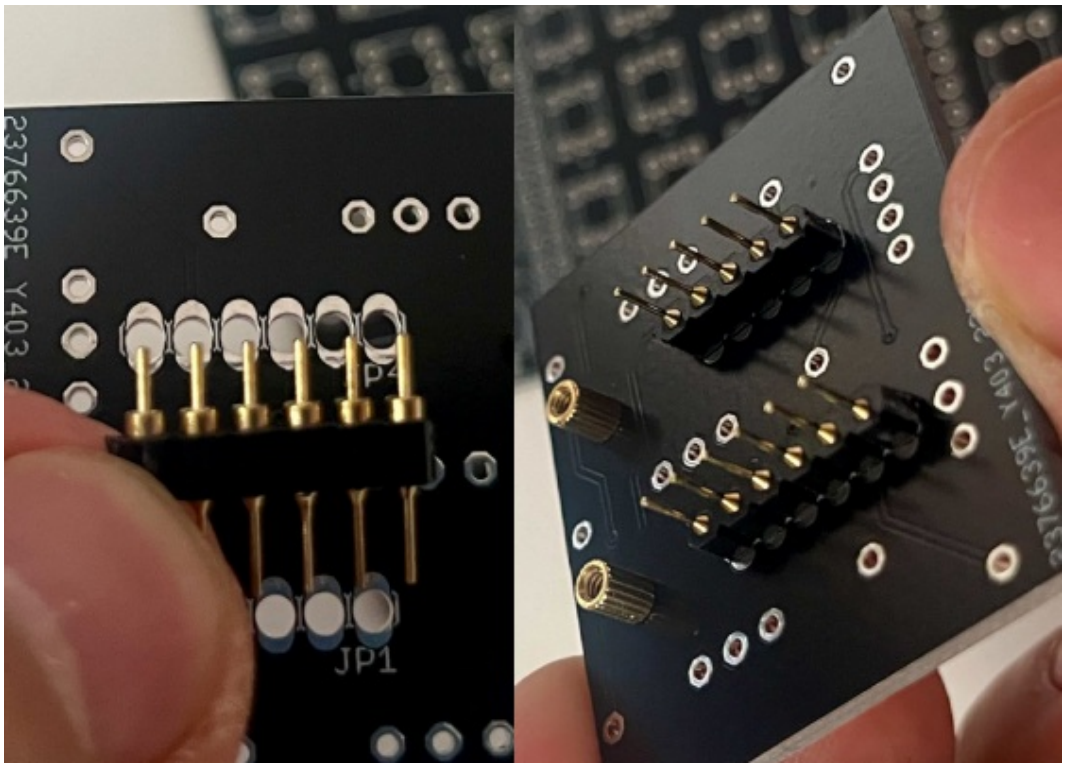
2. Locate the two metal spacers, 2x4mm, 1 mini PCB for the jack connectors and 2 male pin headers:
    - one with 5 pins (1×5) and one with 6 pins (1×6)



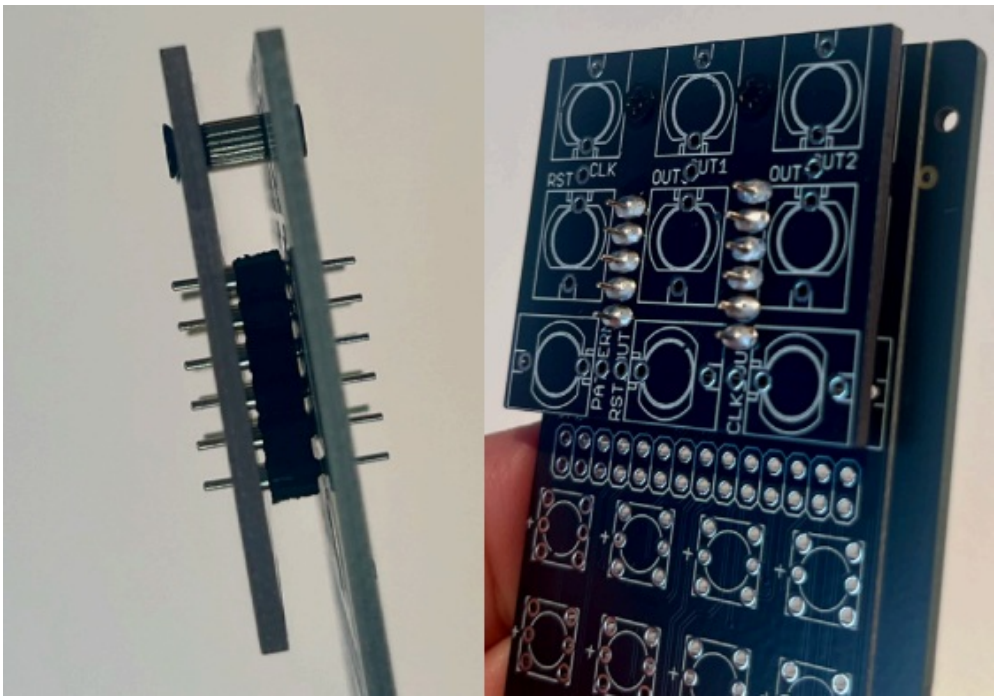
3. Place and screw the spacers on the PCB as shown in the image.



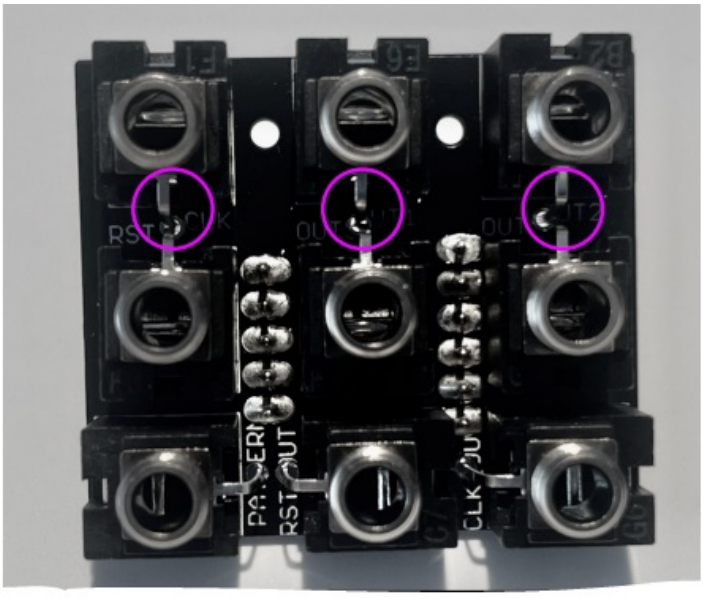
4. Insert the 1×5 and 1×6 male pin headers the mini jack PCB. Ensure the thicker (wider) side of the pins is inserted into the mini PCB holes. This ensures a proper fit and electrical connection.



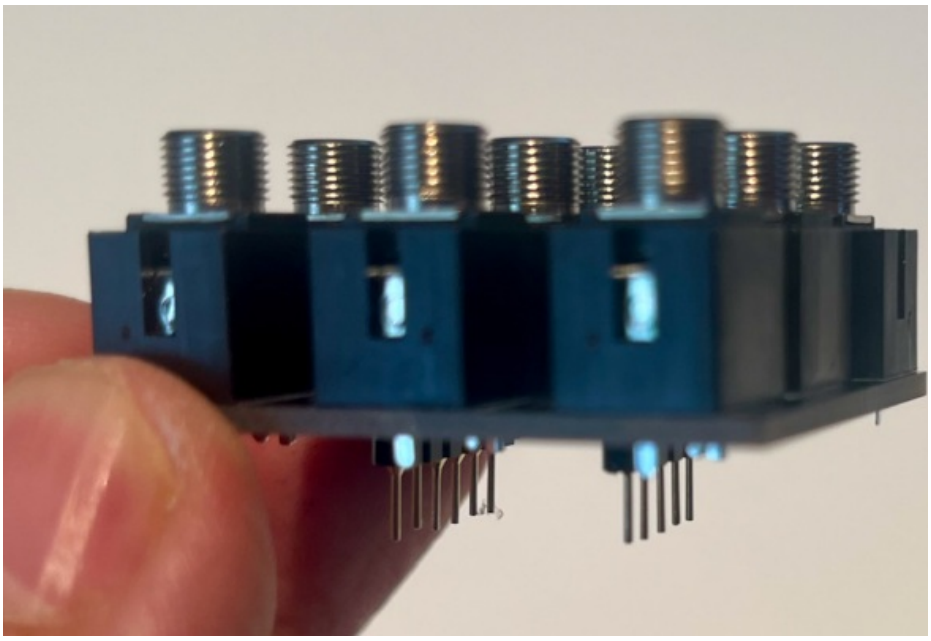
5. Insert the exposed ends of the two pin headers into the holes on the control PCB. Align both PCBs, use the 2 metal spacers to screw them together. Only solder the pin headers on the mini PCB side. Do not solder the pins on the control PCB.



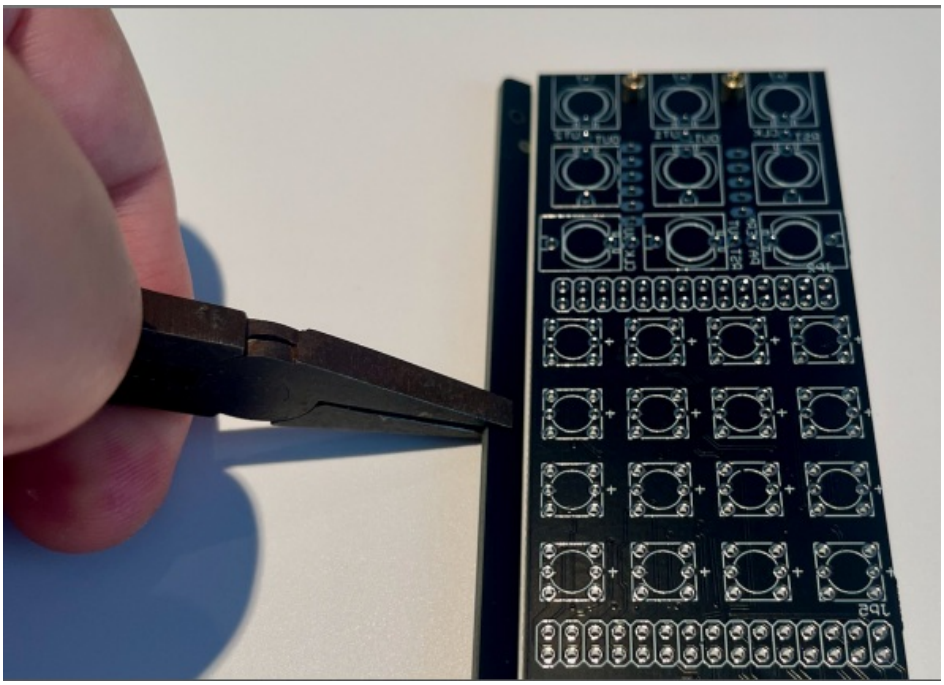
6. Separate the mini PCB from the CTRL PCB. Insert all the audio jacks into their positions on the mini PCB. Take special note of the ground pin holes; the circled jack ground pins share the same hole.



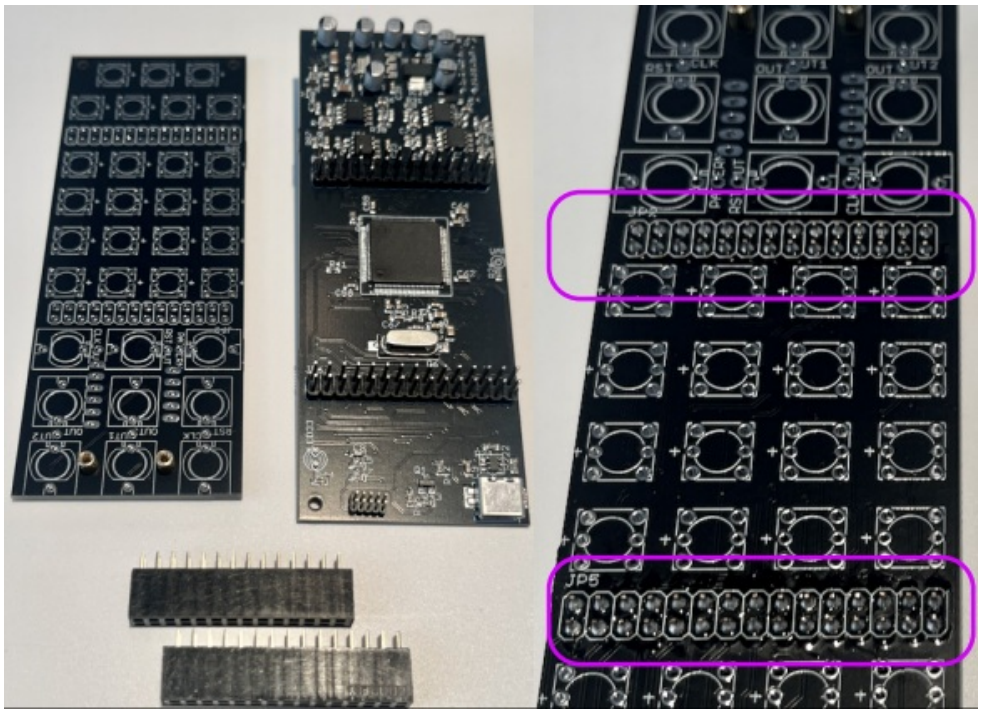
7. Ensure all jacks are fully seated and aligned and proceed to solder them.



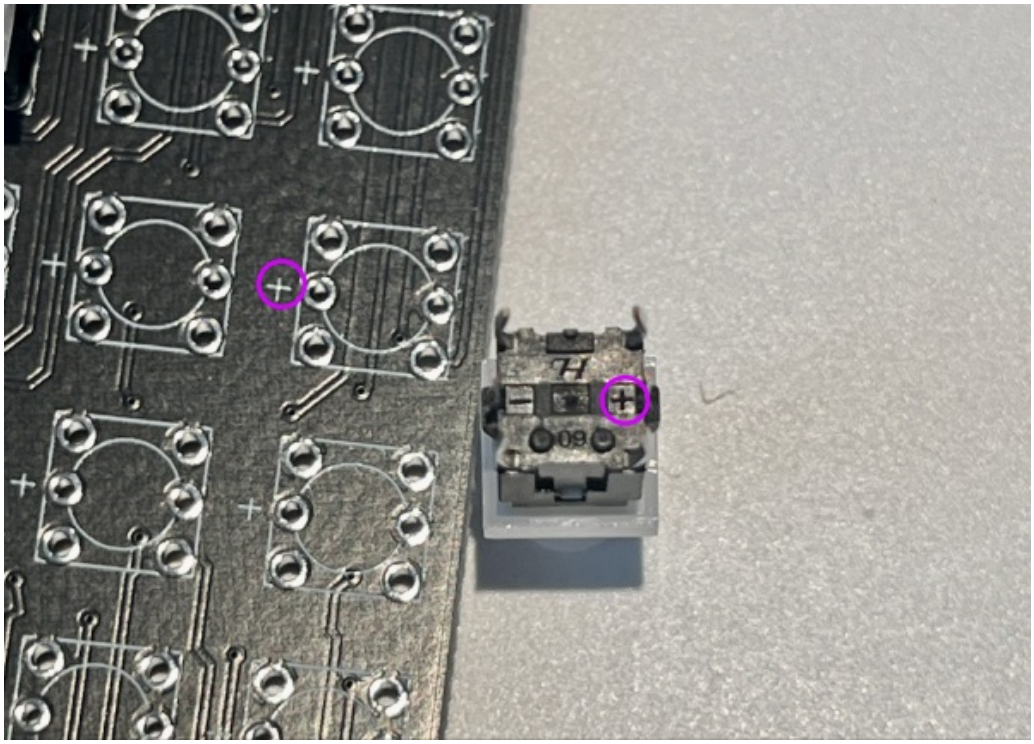
8. Using a pair of pliers, carefully snap off the side section of the PCBs. Apply gentle but firm pressure, avoid twisting the board to prevent damaging.



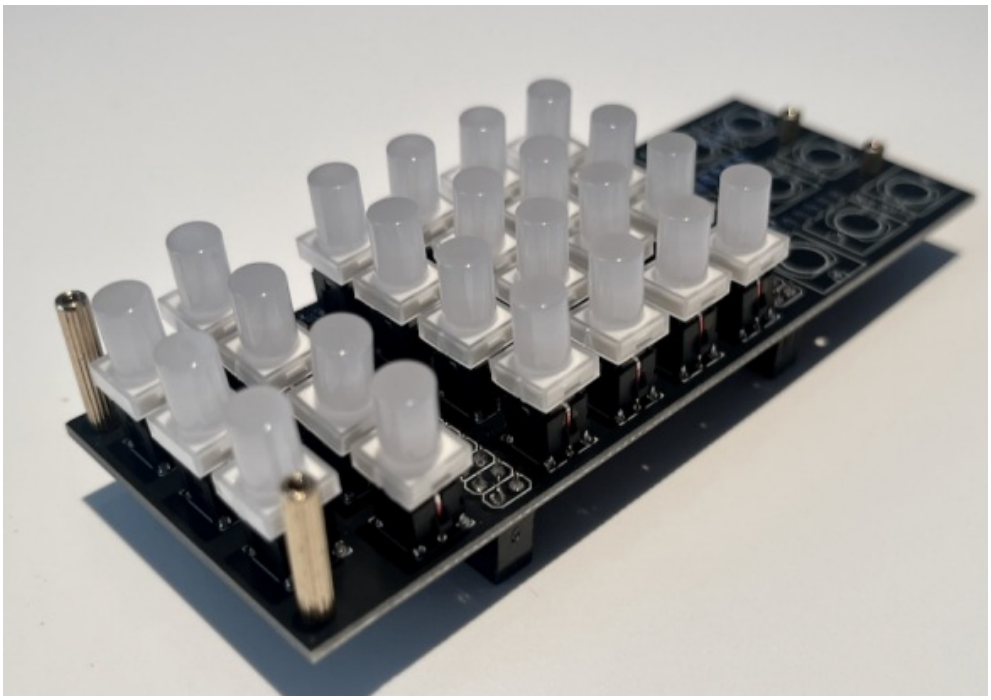
9. Carefully align and attach the PCBs by fitting it onto the female headers. Once the boards are properly aligned and seated, solder the header pins on the control PCB side.



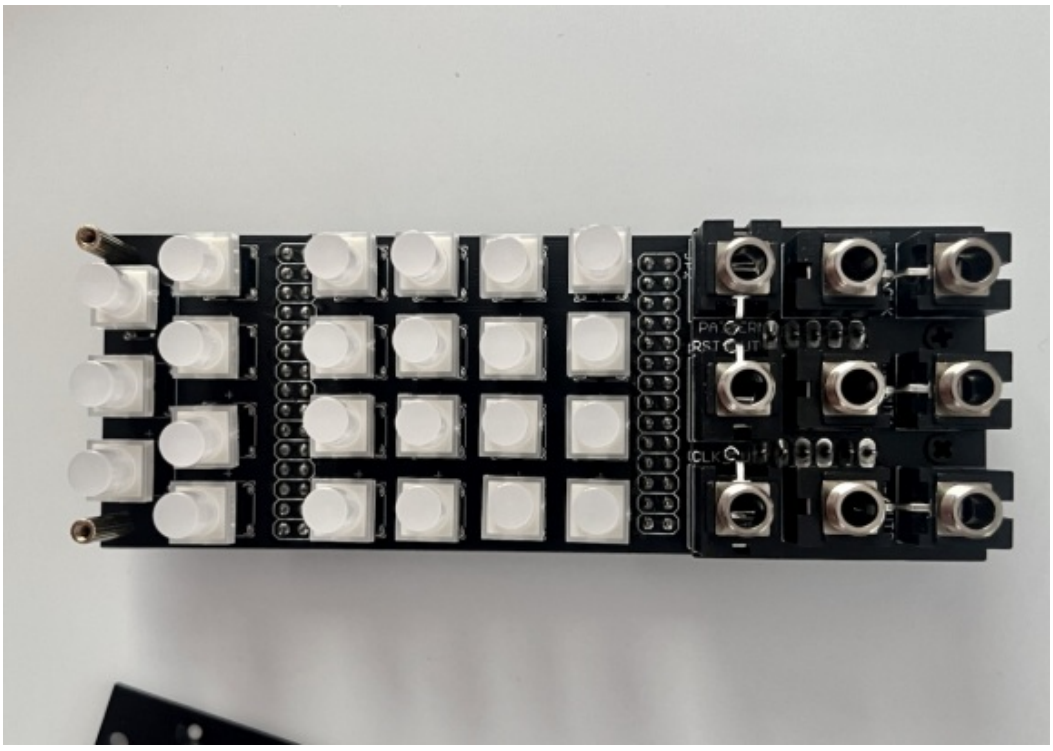
10. Locate all 23 illuminated push buttons. Pay close attention to polarity: on the bottom of each button, you'll see+ and – symbols. Align the + pin on each button with the + marking on the PCB.



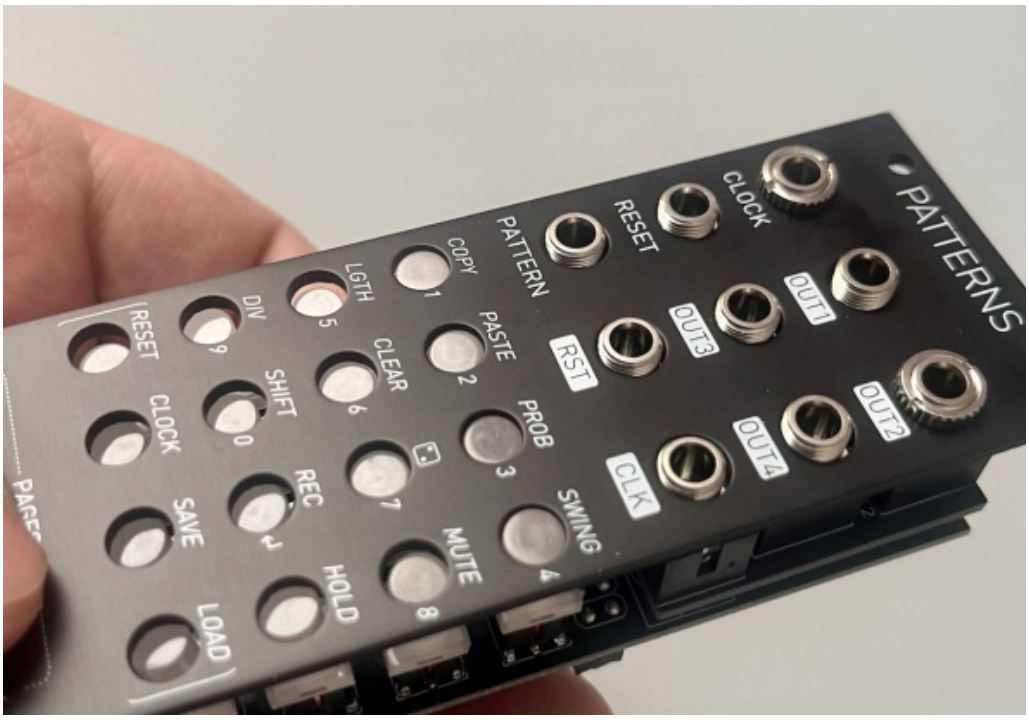
11. Insert all 23 illuminated push buttons & metal spacers into their designated positions on the control PCB. Pay close attention to the polarity of the buttons. Incorrect orientation be very difficult to fix after soldering.



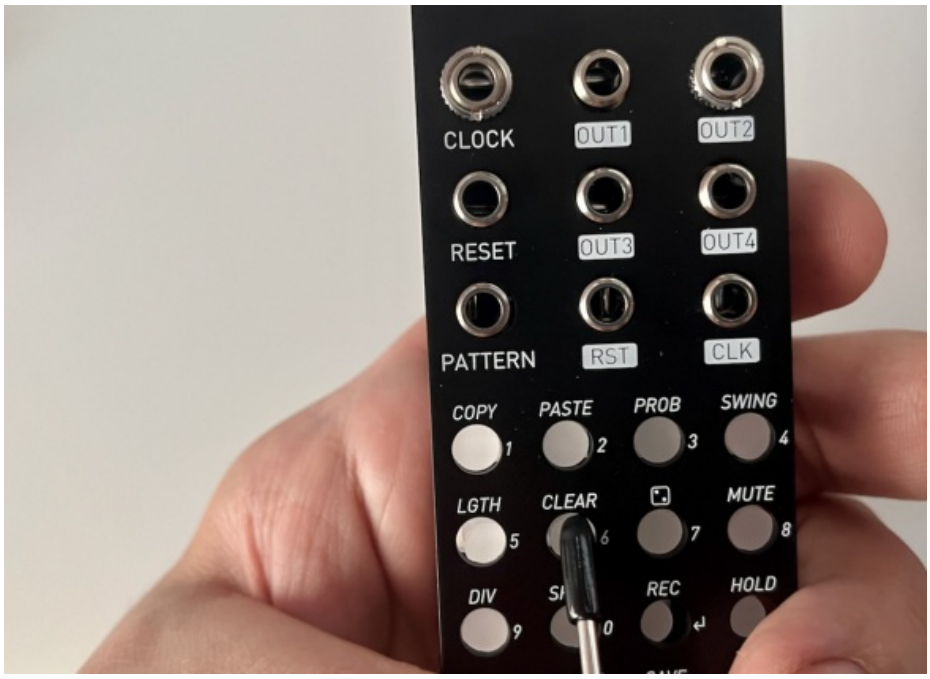
12. Carefully insert the mini jack PCB back into the control PCB. Screw both PCBs together using the metal spacers. Do not solder the pin headers at this stage



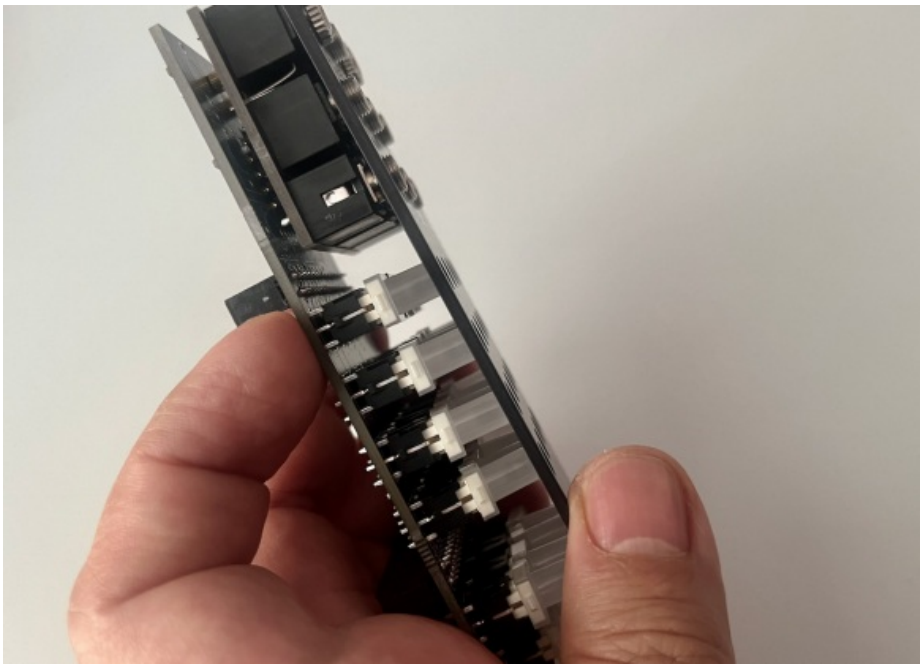
13. Carefully place the front panel onto the assembled PCBs. Secure the panel by tightening 2 jack nuts on opposite corners to hold it in place.



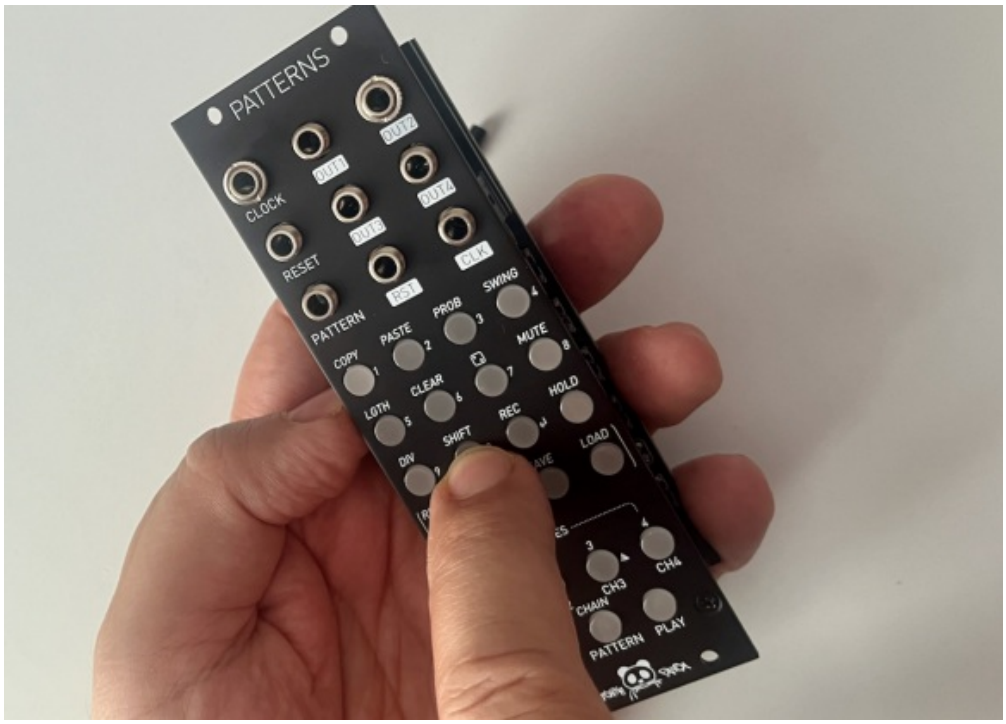
14. Use a pointed tool with a rubber tip to avoid scratching the button caps and gently align each button with its hole in the panel, starting with the top row of 4 buttons and working your way down.



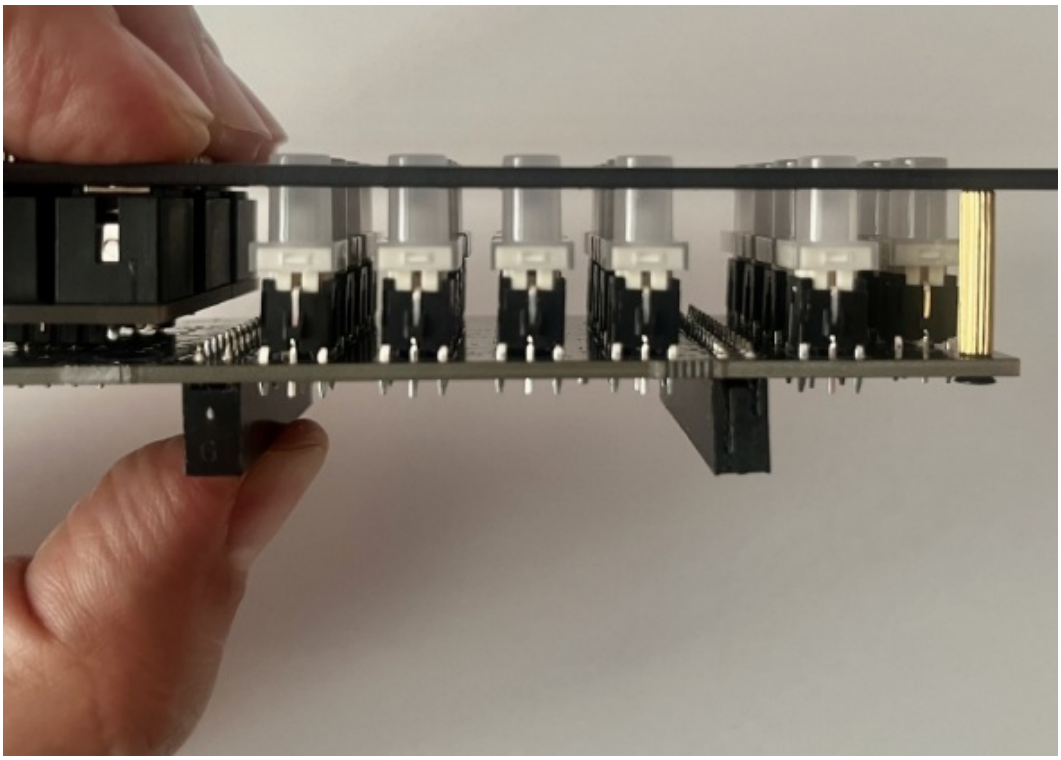
15. Once a button is properly aligned, use your finger to lightly press it from behind the PCB so it clicks into place and sits flush against the panel. Do not press too hard; excess force can dislodge the button.



16. Once the last button is aligned, the front panel should sit correctly on the metal spacers. Screw the front panel to the PCB using the remaining screws. Gently press each button to ensure they are fully seated.



17. Carefully inspect the alignment of the buttons. From behind the PCB, look carefully for any empty holes with no pins inserted. Correcting soldering mistakes at this point will be extremely difficult. Once confirmed, proceed to solder.



18. Carefully connect the control PCB to the main PCB by inserting the male pin headers into the female headers.
    - **Double-check the alignment:** make sure that each pin lines up correctly with its corresponding socket. Congratulations, you are done!

FAQ

Q: How do I protect the module circuitry during assembly?

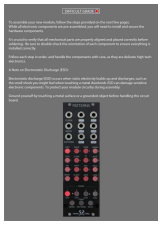
A: Ground yourself before handling the circuit board by touching a metal surface or a grounded object to prevent Electrostatic Discharge (ESD).

Q: What should I do if a component is not aligned correctly?

A: Double-check the orientation of each component before soldering to ensure

proper alignment. Re-align as needed before proceeding with soldering.

Documents / Resources

	Patching Panda Particles Eurorack Trigger Modulation [pdf] Installation Guide Particles Eurorack Trigger Modulation, Eurorack Trigger Modulation, Trigger Modulation, Modulation

References

- User Manual

PATCHING PANDA

Eurorack Trigger Modulation, Modulation, Particles Eurorack Trigger Modulation, PATCHING PANDA, Trigger Modulation

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