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PATCHING PANDA BLAST DIY Module Instruction Manual

Contents

PATCHING PANDA BLAST DIY Module

Product Information

Specifications

- **Grade:** Medium
- **Components:** Pre-assembled electronic components, and hardware components require installation
- **Size:** Control PCB with spacers (2x11mm, 1x10mm)
- **Usage:** High-tech electronics assembly

Product Usage Instructions

- Separate the side stripe by twisting the outer connecting strips using pliers.
- Locate and place the metal spacers on the control PCB as instructed.
- Check alignment and solder the voltage regulator, power connector, and trimmers.
- Join both PCBs using female and male sockets, solder them, and add 2×13 female sockets.
- Trim the fader's leg to prevent contact with installed sockets.
- Cut the fader's side leg to avoid short circuits.
- Position and secure the button with the correct polarity alignment.
- Solder hardware, leaving one slider leg unsoldered for adjustments.
- Verify slider alignment before final soldering.
- Attach both PCBs, secure them with screws, and insert the mini-PCB.
- Refer to the user manual for calibration instructions.

FAQ

- **Q: How do I prevent damage from Electrostatic Discharge (ESD)?**
    - **A:** Ground yourself before handling the circuit board by touching a metal surface or a grounded object.
- **Q: Can I adjust the sliders after soldering?**
    - **A:** Leave one of the bottom legs of the sliders unsoldered initially to make adjustments easier before final soldering.

Introduction

MEDIUM GRADE

- To assemble your new module, follow the steps provided in the next few pages.
- Assembling your module is straightforward. 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.
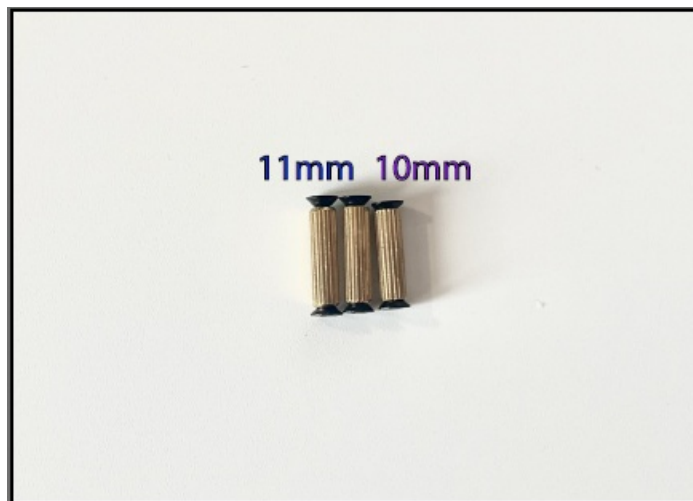
Preparing for Assembly

FOLLOW THIS STEPS FOR BUILDING THIS KIT

1. Prepare the parts to begin the assembly process, and gently separate the side stripe by twisting the outer connecting strips using a pair of pliers.
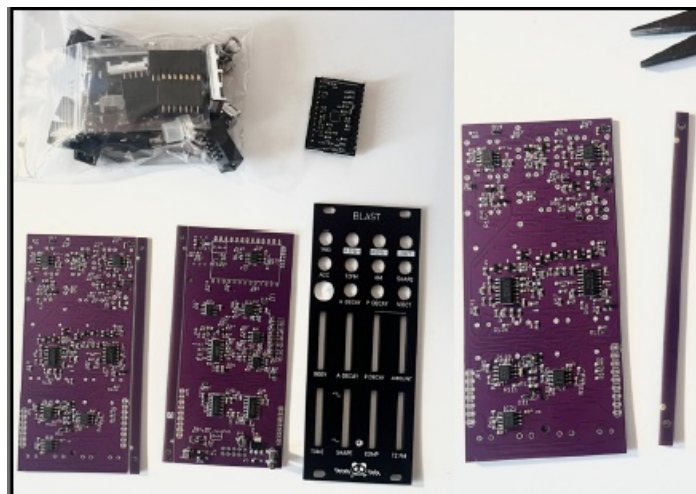

2. Locate the metal spacers: there are three in total—two measuring (2x11mm) and one measuring (1x10mm).

3. Place the spacers on the control PCB as shown in the image. Use the larger spacers (2x11mm) to connect both PCBs and the smaller spacer (1x11mm) as indicated in the image.
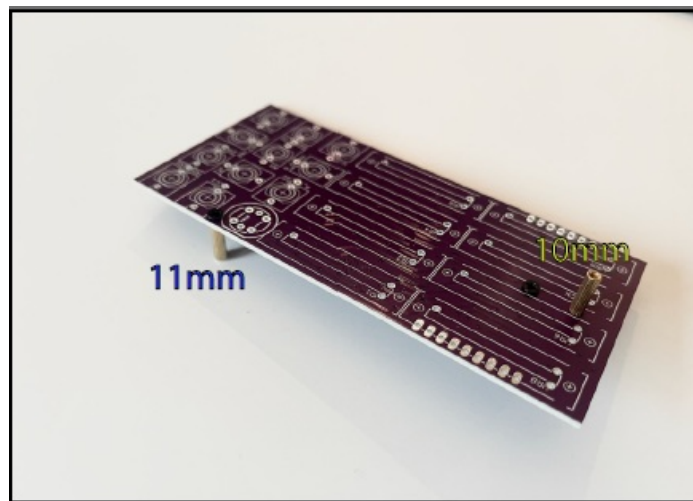

4. Check the drawing of the voltage regulator, the orientation of the power connector, and the trimmers. If everything is correct, proceed to solder them in place.
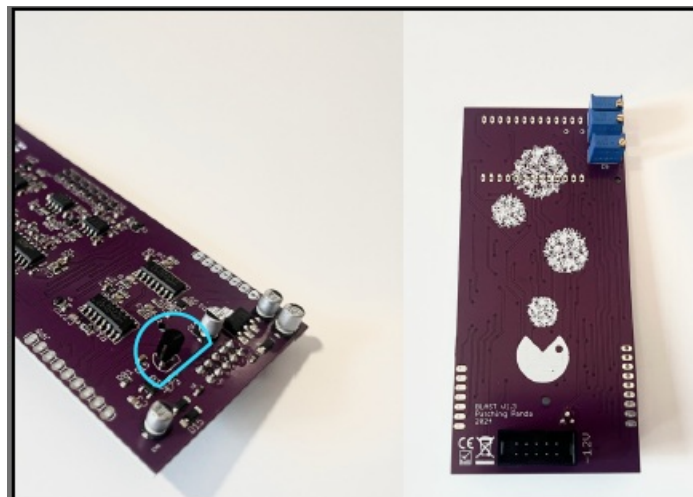

5. Join both PCBs using the female and male sockets, and solder them.
   Additionally, solder the 2×13 female sockets as shown in the image on the right.
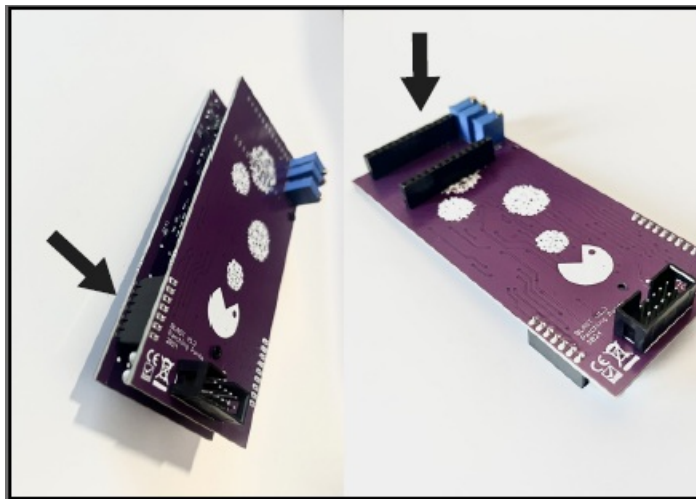
6. Trim the side leg of the fader that will be positioned next to the previously installed sockets to prevent contact and avoid a short circuit. Refer to the next image for guidance.
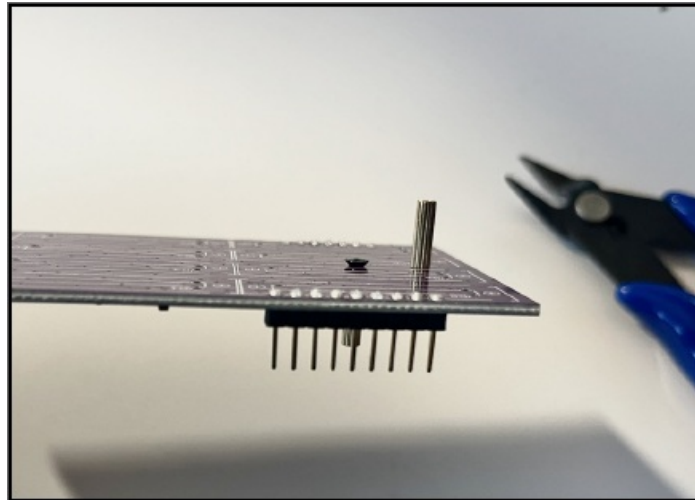
7. Cut the side leg of the fader that will be placed next to the previously soldered pins to prevent contact and avoid a short circuit. Refer to the next image for guidance.
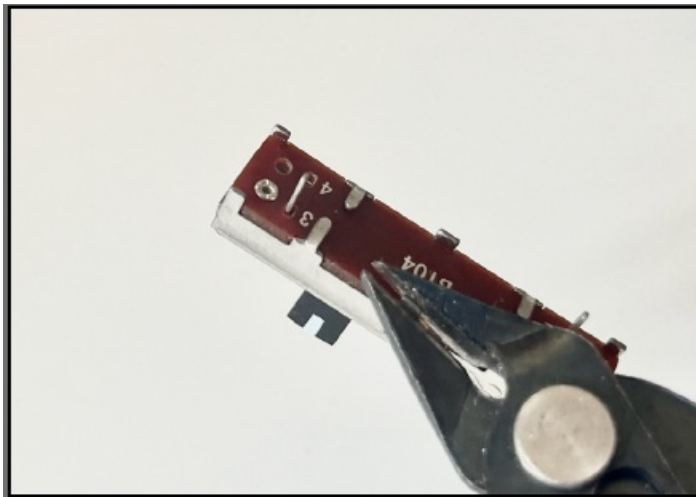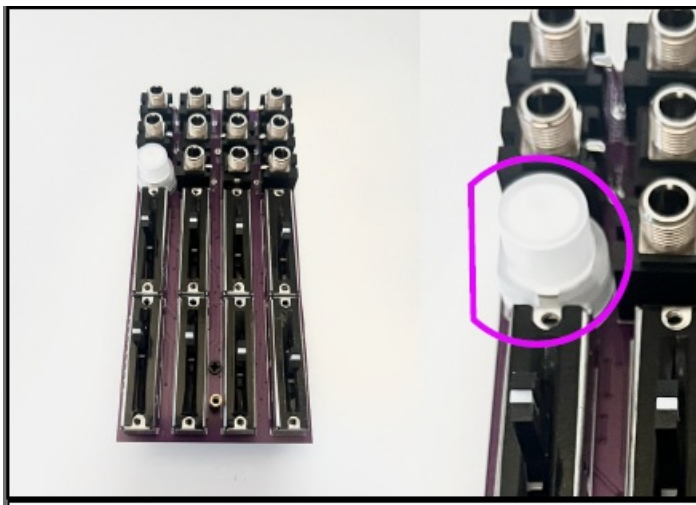

8. The image shows how the fader's side leg does not touch the soldered pads.
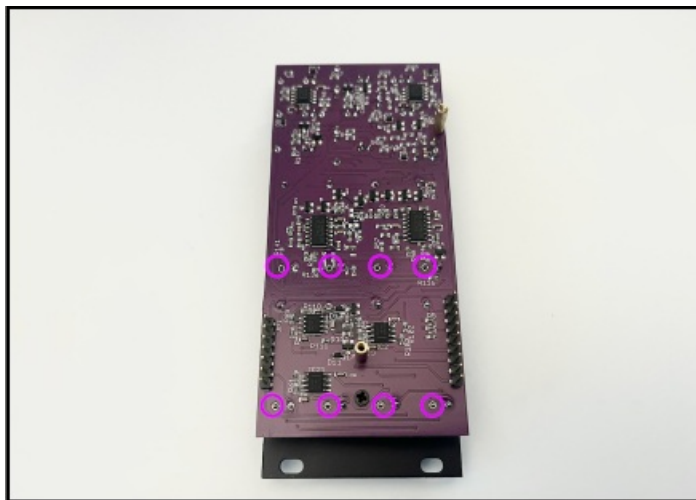
9. Position the button, ensuring the polarity is correct. Align the ! at the side of the button on the left with the on the side shown in the image.

   Install all hardware and secure the panel in place with screws, but do not solder yet.
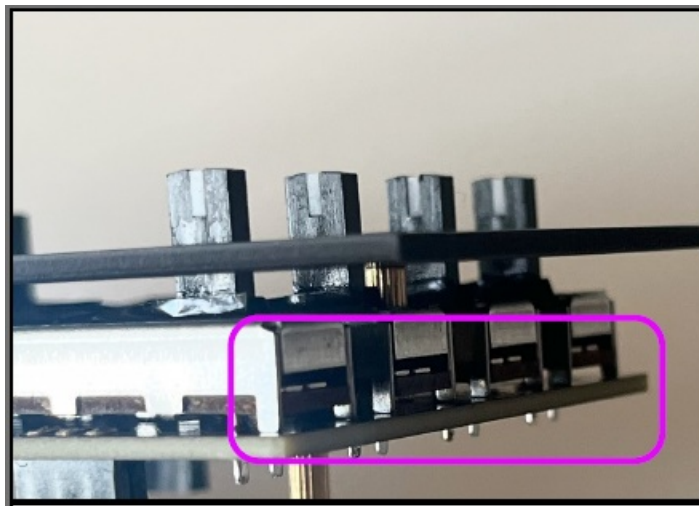

10. Solder the hardware, except for one of the bottom legs of the sliders.

   This will make it easier to adjust them if needed.

11. Verify that the sliders are correctly aligned and that their legs are properly touching the PCB before proceeding with soldering.

12. Attach both PCBs and secure them with screws. Insert the mini-PCB with the marked side facing left.

You are done, refer to the user manual to learn how to calibrate the module.

Documents / Resources
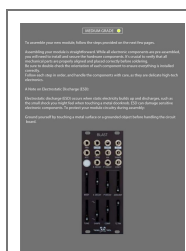
 PATCHING PANDA BLAST DIY Module [pdf] Instruction Manual
BLAST, BLAST DIY Module, DIY Module, Module

References

- **User Manual**