



TROUBLESHOOTING D.I.Y HEKATE MANUAL

Hekate is a diy stereo audio or CV mixer Eurorack module. It is a very useful, simple, diyer friendly project for starters but also for pro's. The only components you have to place are the passives. The active SMD components are already soldered on the board by one of our androids, to make your life easier.

What's inside the package

Inside the package you will find a PCB board, resistors, capacitors, potentiometers, audio 3.5mm sockets, power socket, the front panel and a power cable.

DETAILED:

- **2x** 10 Ω Resistors
- **6x** 1k Ω Resistors
- **8x** 4.7k Ω Resistors
- **8x** 10k Ω Resistors
- **2x** 0.1 μ F Ceramic Cap's
- **4x** 0.33 μ F Ceramic Cap's
- **4x** 10 μ F Electrolytic Cap's (Note!) Those capacitors they have polarity -+)
- **6x** 100k Ω Pot's
- **4x** 10k Ω Balance Pot's
- **6x** Mono audio 3.5mm Sockets
- **1x** Stereo audio 3.5mm
- **1x** Power Socket 10pin
- **1x** Power ribbon cable

Any missing part of the list can be claimed via email:
info@hexdevices.com

WHAT YOU NEED TO START:

To start building the Hekate Stereo mixer you need some tools such as:

1. Soldering iron
2. Solder alloy preferable (60/40)
3. Solder wick or pump
4. Plier, Side Cutting Plier
5. Multimeter
6. Plenty of love

Troubleshooting

My module doesn't make any sound what is going on?

1. Be sure that you didn't make any short circuits

while soldering. If yes try to fix it with your soldering iron by heating it up and remove the solder. Or better with your pump or wick and then resolder it.

2. Check if you placed the power connector with the right orientation as it shown on the board.

If not, try to fix it by heating a bit the back side, remove the plastic part and revert it. Or, if its difficult to do the previous process, take it completely out. But carefully! Because its easy to break circuit connections, then place a new one.

3. Check your board voltage.

Turn your multimeter in the DC voltage measurement position. Place the ground prob at any ground place (its easier between the ground pin and the plastic part of any of your input/output connectors) then check your power connector carefully and steady to avoid any short circuits with your prob. If everything is correct there the multimeter suppose to show around +-12V. If not, do the step 1,2 of the troubleshooting and then check your power cable or the main Eurorack power supply.

4. Check if the opamps are powerd.

The heart of the mixer are those two opamp ICs. Turn you multimeter in the DC voltage measurement position. Place the ground

prob at any ground place (its easier between the ground pin and the plastic part of any of your input/output connctors) and measure the pins of the opamp. At Pin 8 the multimeter suppose to show around +11 to +12V and at pin 4 around -11 to -12V.

If the opamps have no power at all but you measure the right voltage on the power connector then measure if the voltage can pass resistors R37, R36.

If you measure voltage from one pin of the resistor but in the other you get zero, just remove them and place a jumper or use another one same value from your bech. In case they work fine, follow the voltage path till you find the component that blocks it and replace it.

5. Send us an email.

If you tried everything of the steps above carefully, more than one time but nothing happens, feel free to contact us.

Use the mixer as a CV mixer

Your Hekate stereo mixer is perfect for mixing your audio signals but there's a very simple way to use it as a Contol Voltage mixer instead of audio. This can happens if you dont place the resistors R28, R30 and the capacitors C1...C6. But NOTE! If you use it this way is only for mixing your CVs and contolling other modules with CV. DO NOT! plug any speakers on the output (they don't like DC).

Enjoy and have fun with your new and powerful mixer!