

WAMOD: MIXER PLEASE READ EVERYTHING BEFORE STARTING

This is a simple 3 input DC mixer, DC means it can be used to mix CV signals as well as audio (probably not at the same time though). It has 2 outputs, one to a standard socket and one to a ¼" socket for connecting your synth to a mixer or amp. There is also separate headphone amplifier. If nothing is connected to the input, then the output of the DC mixer is routed to it.

The panels need 2 holes drilled and three holes widened, the drill press will be set up for this and a panel will be available to use as a template. It would be good if some people do this before soldering, so there is not a long wait at the end of the evening.

The ¼" socket needs its lugs cut off so that the panel will fit into a case, see the completed mixer to see how this done and where to solder the wires. When you cut off the lugs, please be careful as they are designed to fly off directly into people's eyes or any other available orifices.

Also, as my printer is dry, I cannot make nice pages with all the parts nicely labelled, so everything is chucked in a bag and mixed carefully. Please take a minute to sort the components before starting, there are not many. Use a multi-meter to check resistor values. If there is anything missing, just ask for it.

Parts

10R	2	
100R	2	
1k	3	
10k	4	
47k	2	marked Rg on the PCB
100k	6	
22pF	2	these look like tiny green resistors
100nF	1	marked 104
10uF	3	be careful to insert +/- correctly
TL082	1	or TL072
NE5532	1	make sure this goes in the right socket
10 pin power connector	1	
8 pin socket	2	
100k pots	4	
3.5mm mono sockets	5	
3.5mm stereo socket	1	the black one
¼" socket	1	

1. Install 10 pin power connector and 8 pin sockets
2. sort out and install resistors
3. install capacitors
4. Place pots on the back of the PCB, but do not solder them yet.
5. Place sockets on the panel so that they line up with the holes on the PCB
6. Attach the PCB to the panel, make sure everything lines up nicely. Place on the nuts to hold it all firmly, then solder on the pots and sockets.
7. Remove the PCB from the panel and install wires to the ground tabs of the sockets, if you are not concerned you can skip this and just solder 1 or 2 ground wires to the easily accessible sockets.
8. Solder 2 wires to the ¼" socket, after cutting off the lugs.
9. Install chips, note they are different.
10. test!
11. voila!