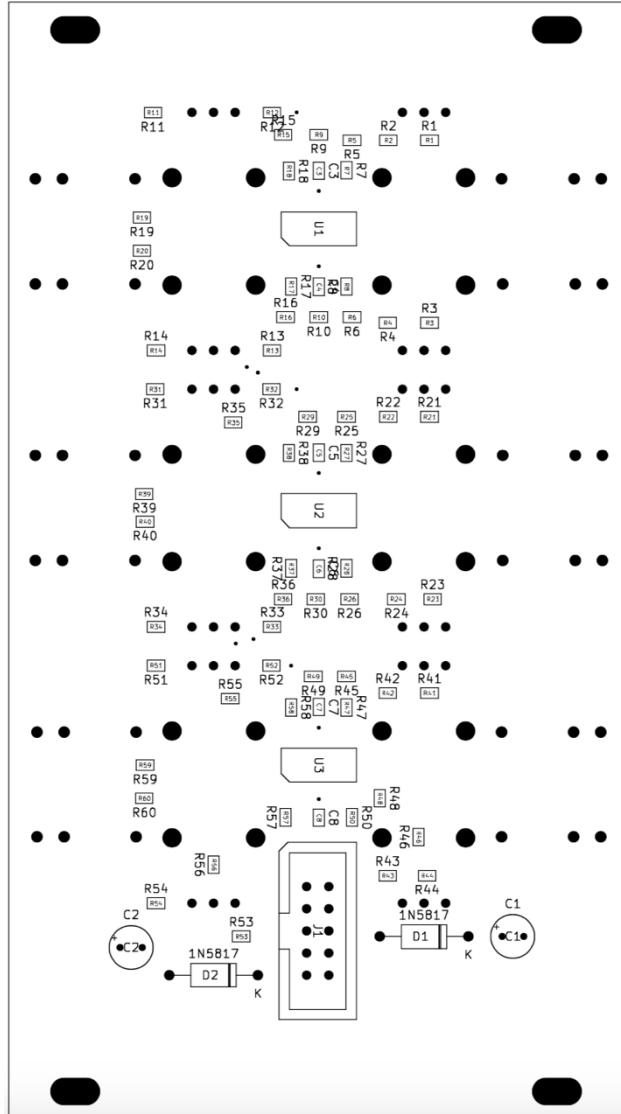


'FLIP' Attenuverter / Bias : Build Guide

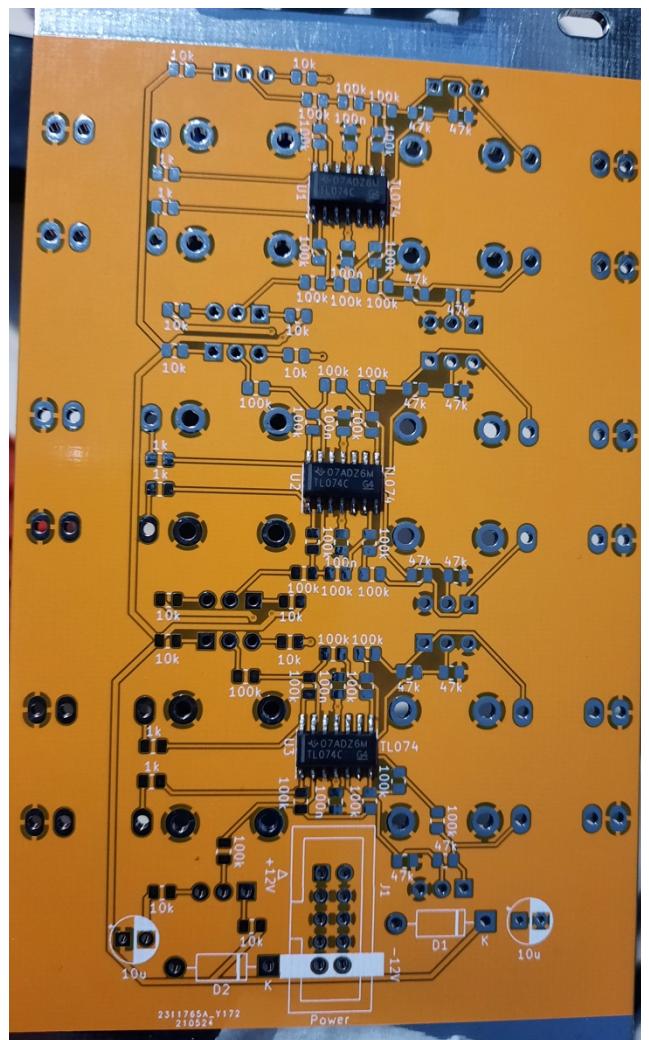
SMD Guide

If SMD parts are already soldered, skip forwards to Through-Hole Guide

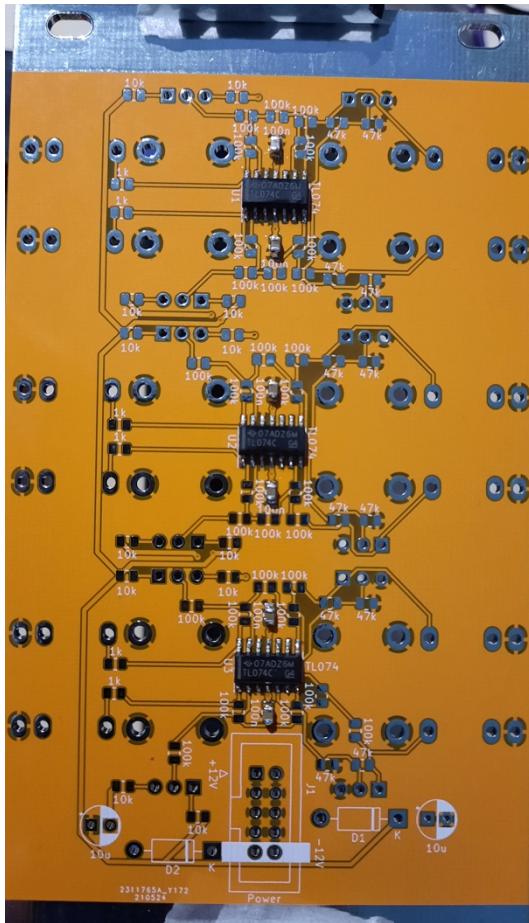
1) TL074 integrated circuits



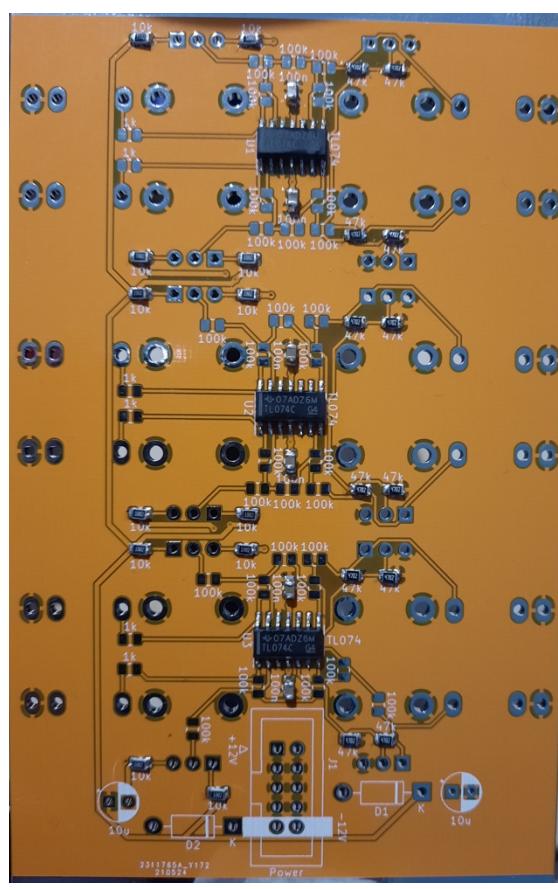
Before soldering the TL074 integrated circuits, see the diagram to the left. Pin 1 of the ICs needs to match up with the position of the 'notched' corner of the rectangles marked U1, U2 and U3. Pin 1 on the ICs is usually marked with a notch or circle in the black plastic.



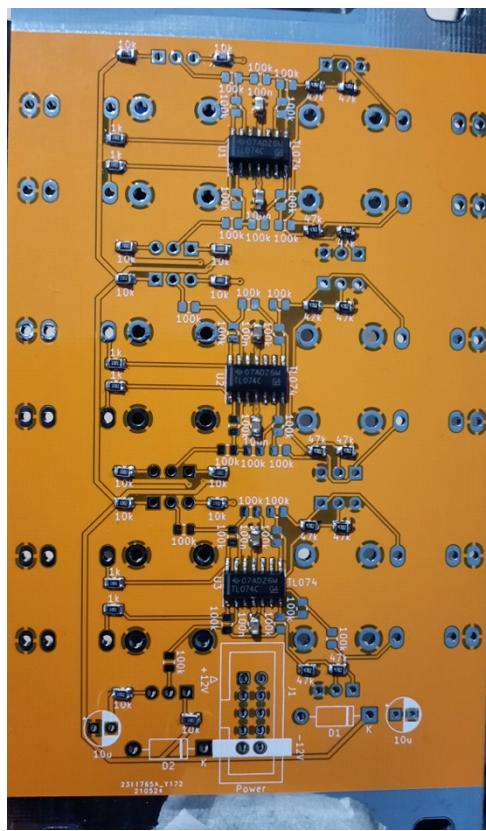
2) 100n capacitors



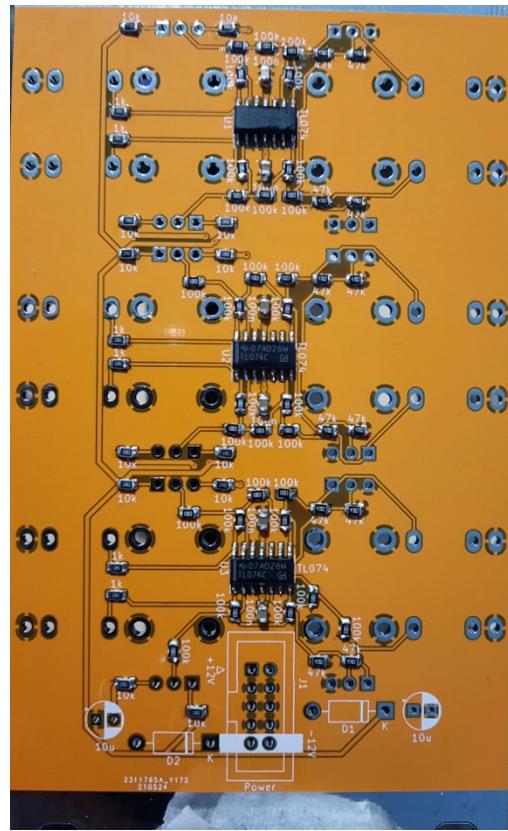
3) 10k and 47k resistors



4) 1k resistors

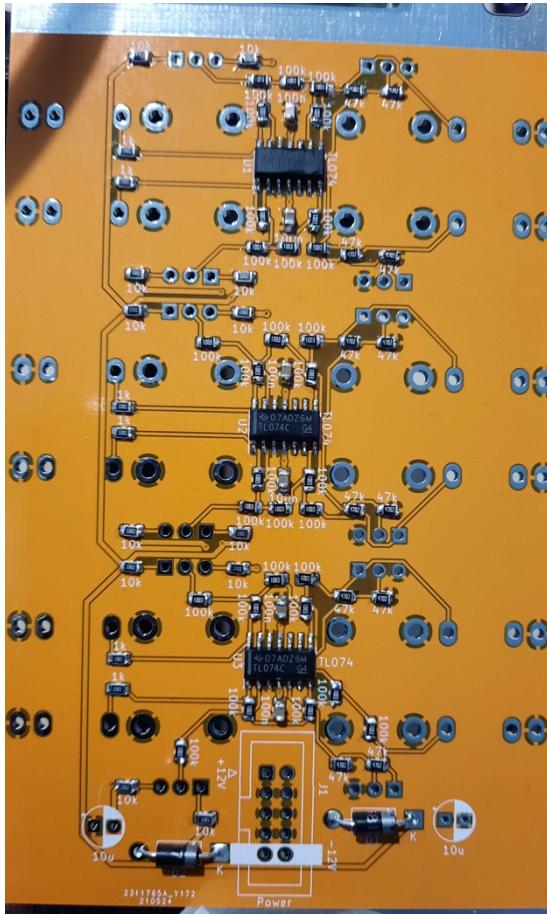


5) 100k resistors

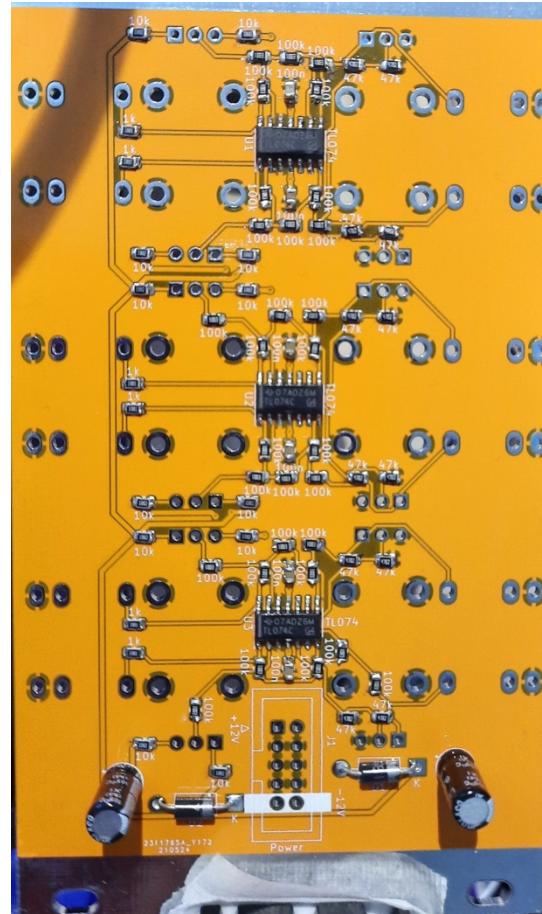


Through-Hole Guide

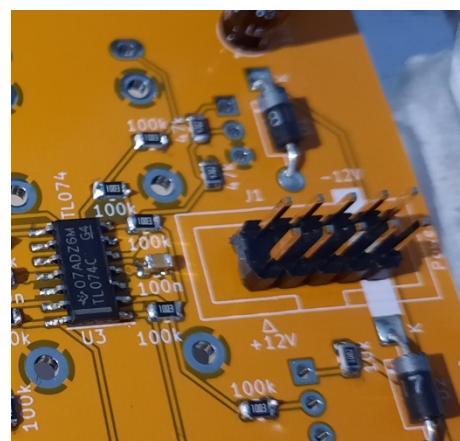
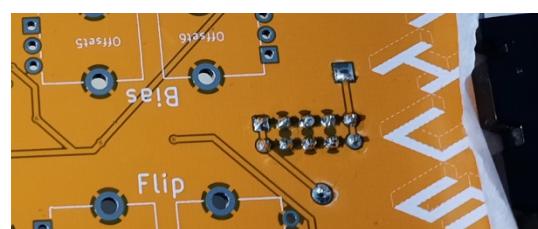
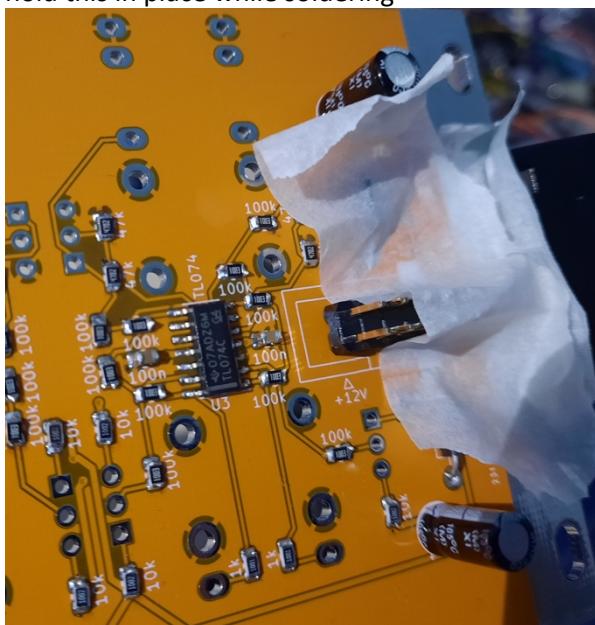
1) Diodes: the silver line should face the line drawn across the rectangle on the PCB



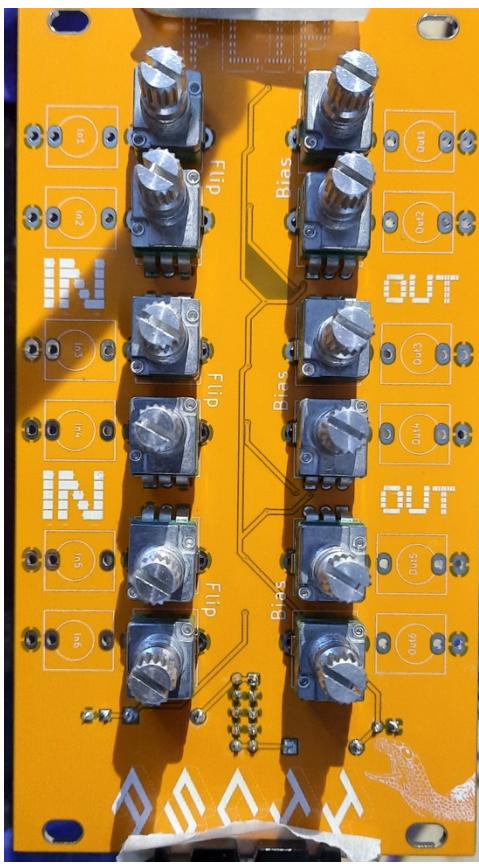
2) Capacitors: The white line on the capacitor should be above the white half-circle on the PCB



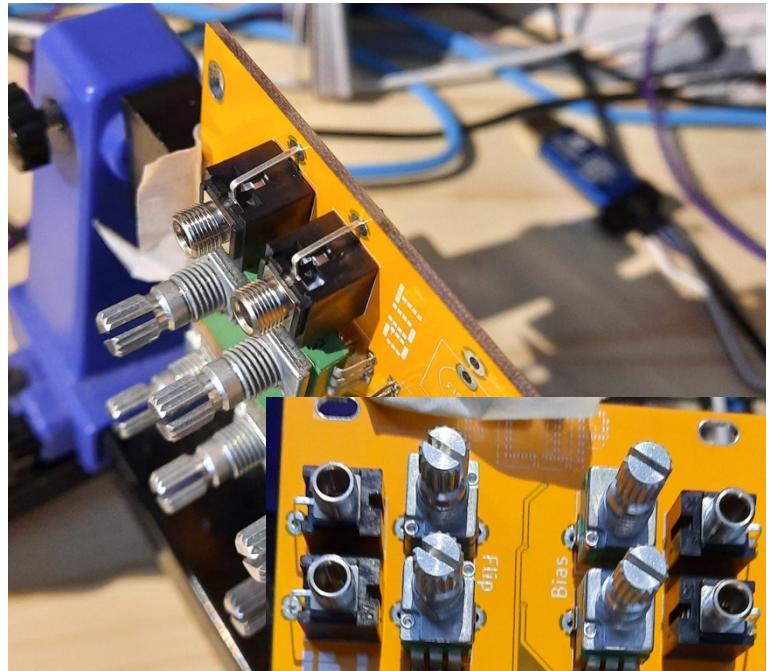
3) Power connector: masking tape can help to hold this in place while soldering



4) Potentiometers



5) Jacks (align by hand while soldering)



6) Potentiometer knobs
(not applicable if using blue/black trimpots):

Turn all potentiometers as far left as possible, then push on the knobs with the white spot pointing to about 7 o'clock

