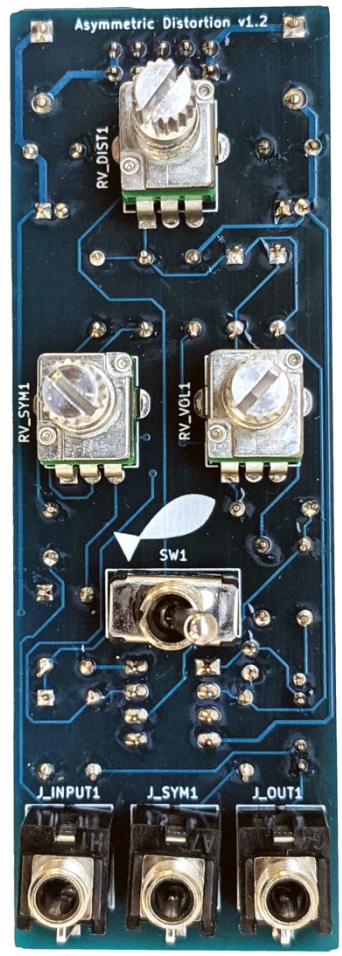
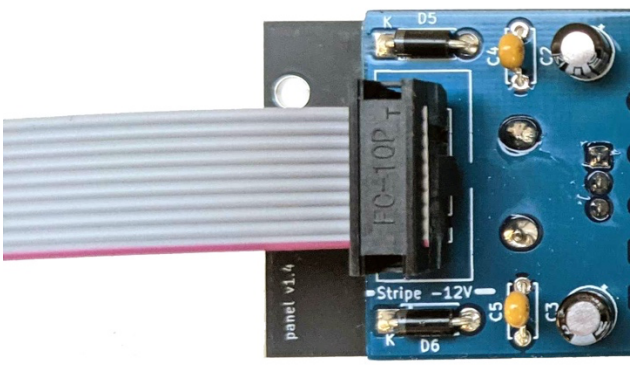
Little Fish Audio - Asymmetric Distortion Build Document v1

1. First solder all the resistors in place minding to fit them at the correct designators as indicated on the PCB silkscreen..
2. Next solder the 4 x 1N4148 diodes (orange & black). **NOTE:** orientation matters – the black line on the component should match the stripe on the PCB silkscreen as pictured.
3. Now solder in the 2 x black and silver diodes (either 1N5817 or 1N5819) **NOTE:** orientation matters again – the silver line on the component should match the stripe on the PCB silkscreen.
4. Next solder in the 8 pin IC socket at U1. The notch in the socket should match the notch on the PCB silkscreen.
5. Now solder the ceramic capacitors – 1 x 470pF (C6) and 2 x 100n (C4, C5).
6. Next solder the 10pin power header in place. The header should sit on the same side of the PCB as the resistors and other components. Solder a single pin at each end and then check the header is flush to the PCB before soldering the rest of the pins.
7. Next solder the 1uF film box capacitor at C1.
8. Now it's time to look at the electrolytic capacitors. Note that there are two different types of 10uf capacitor in the kit – Unipolar capacitors which go at C3 and C4, and bipolar (or non-polar) which go to C7 and C8. **NOTE:** orientation matters for the unipolar capacitors! – the longer leg should go to the pad with the plus symbol. The white stripe signifies the negative side. Place the capacitors a shown and solder in place.
9. Then solder the bipolar 10uF capacitors at C7 and C8, orientation does not matter for the bipolar capacitors
10. Now turn the PCB over and place but **DO NOT SOLDER YET** the pots, jacks, and switch. **NOTE:** there are 2 x pots labelled B10K and 1 x pot labelled A10K. The A10K pot should go to designator '**RV_DIST1**'.
11. Now attach the frontpanel and screw on the nuts and washers to hold everything in place as shown below. Now you can turn the module over and solder in the pots, jacks and switch.
12. Next you can fit the TL072 chip into its socket. **NOTE!** Orientation is vital. Make sure the black circle on the face of the IC is facing towards the notch in the IC socket as pictured.
13. Now attach the knobs and affix the power cable as shown below - the red stripe should always be facing the PCB text label '**Stripe -12V**'. The module is now complete.





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