ANTUMBRA

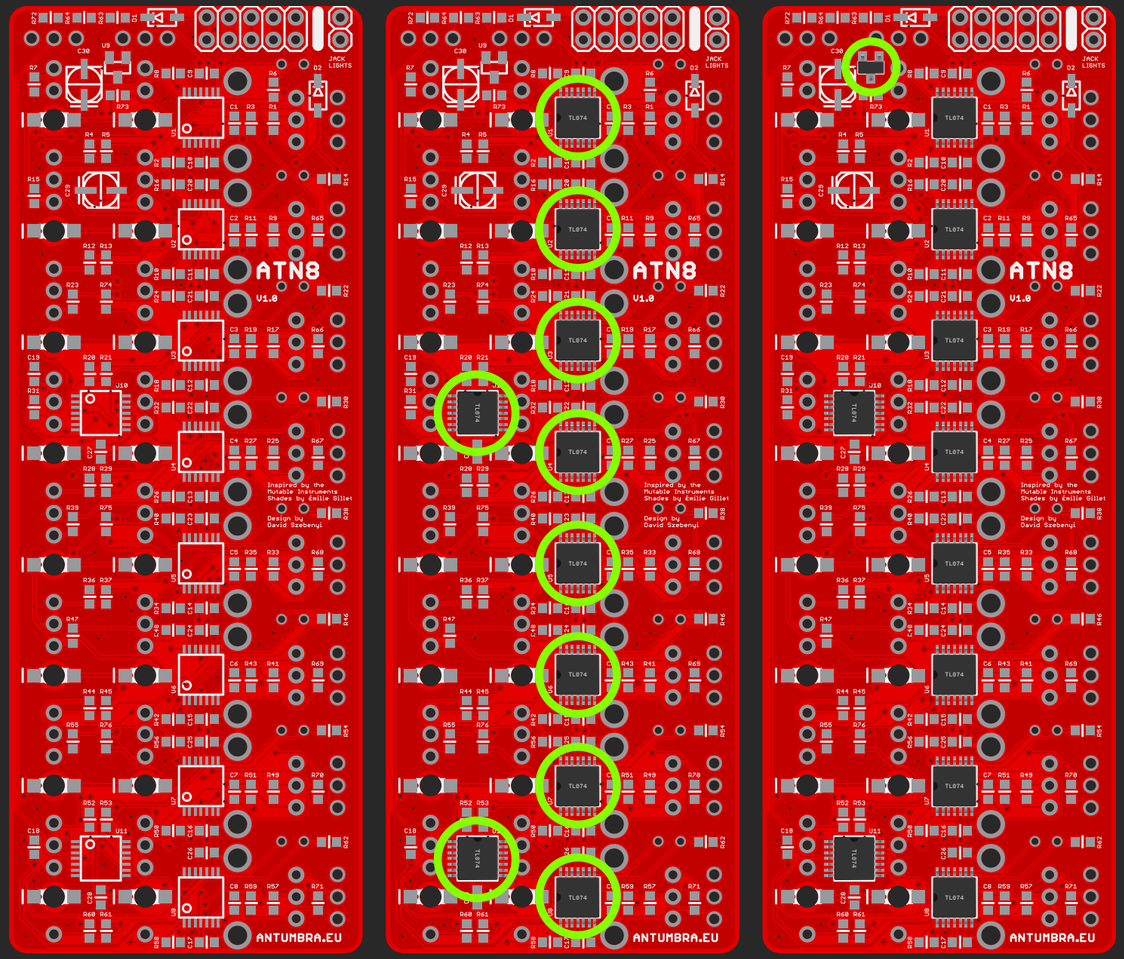
ATN8

BUILDING INSTRUCTIONS

PCB V1.0

01. BUILD NOTES

Before you start building look through the build manual so that you'll be familiar with the building process and you won't run into any surprises! :)



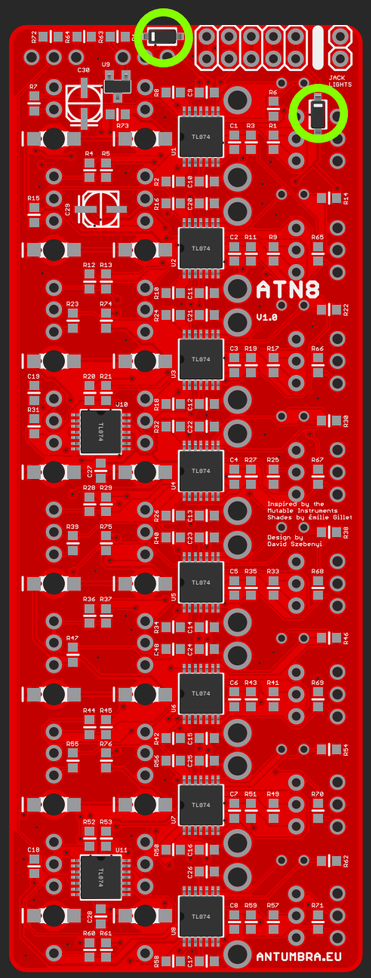
00 01 02

02. BUILD

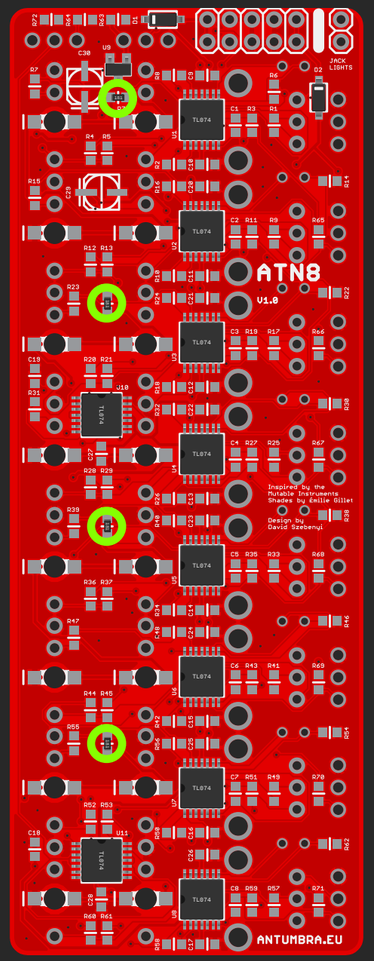
00. Orient the PCB as seen on the left

01. Solder the ten TL074 opamps
    You can also use LME49743 for better audio quality

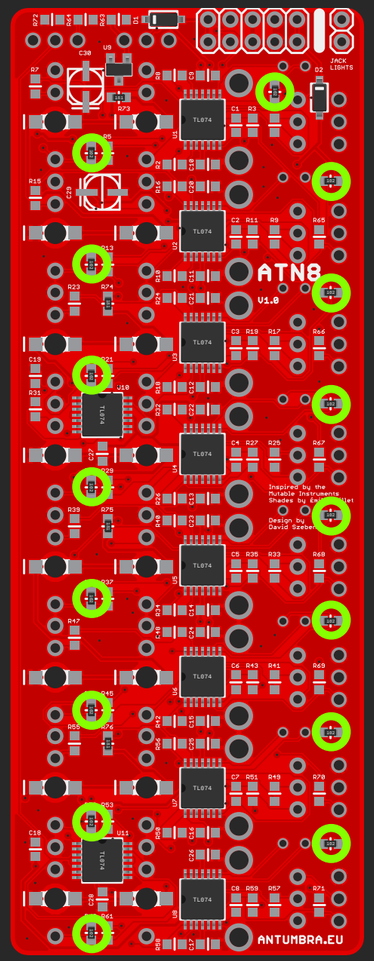
02. Solder the LM4040 10V IC



03



04



05

02. BUILD

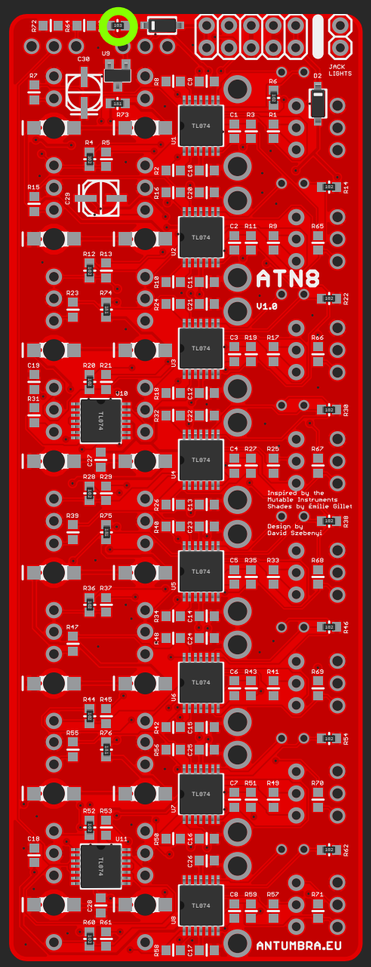
03. Solder the two 1n5819 diodes

    NOTE: Watch out for their orientation

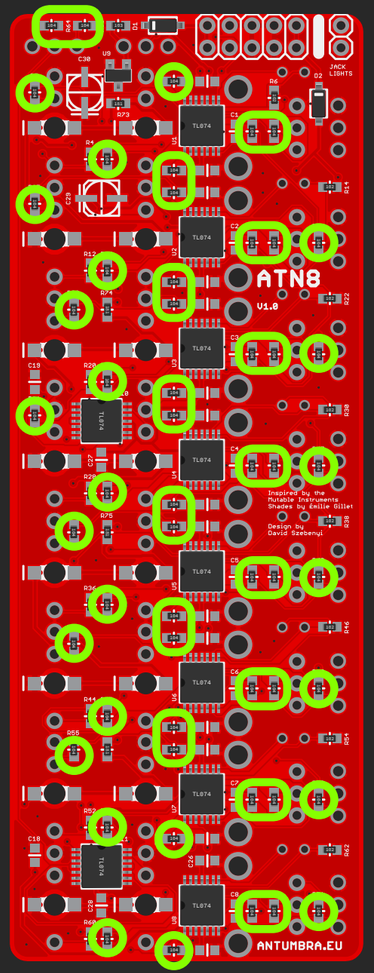
04. Solder the four 180r resistors

    These are for the jack LEDs so they are optional

05. Solder the sixteen 1k resistors



06



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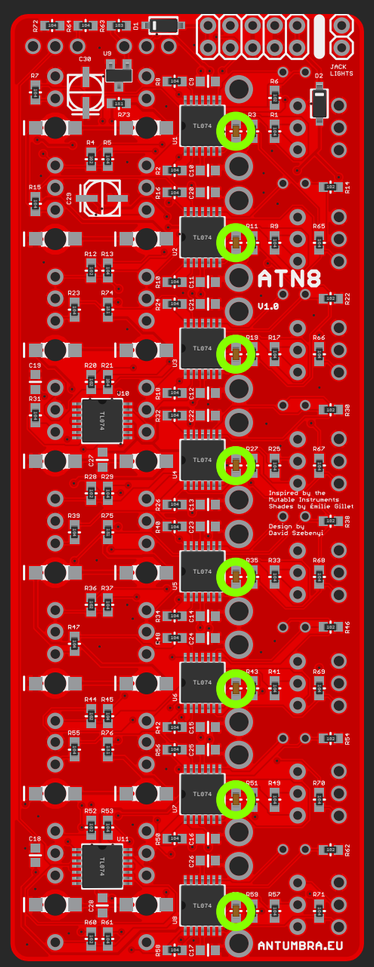


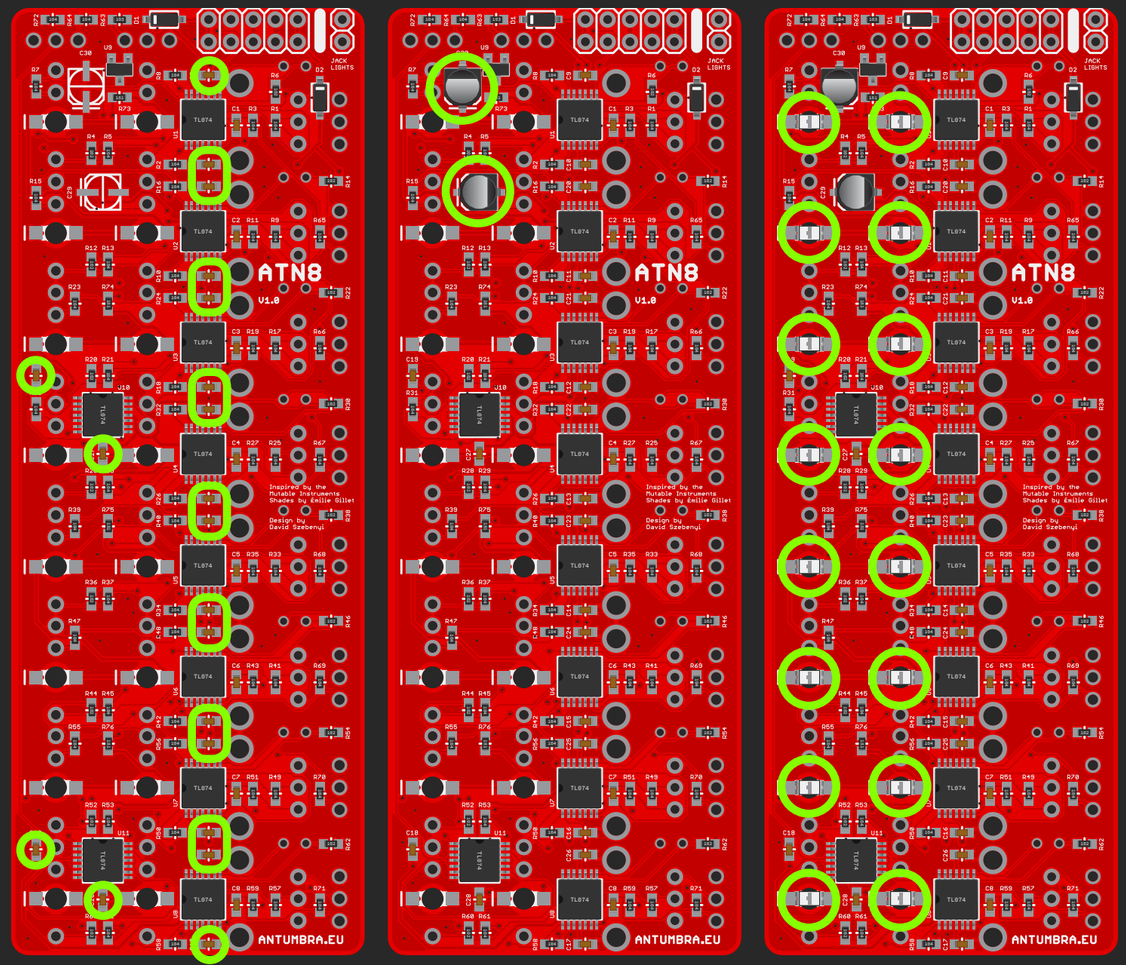
08

02. BUILD

06. Solder the single 10k resistor

07. Solder the single 55 × 100k resistors
    They should be 0.1% (or less) for best berformance.

08. Solder the eight 22pF capacitors



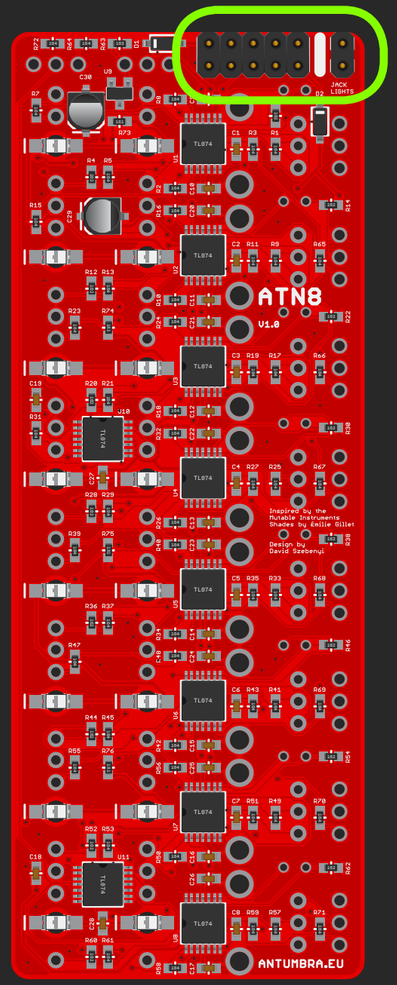
09 10 11

02. BUILD

09. Solder the 20 × 100nF capacitors

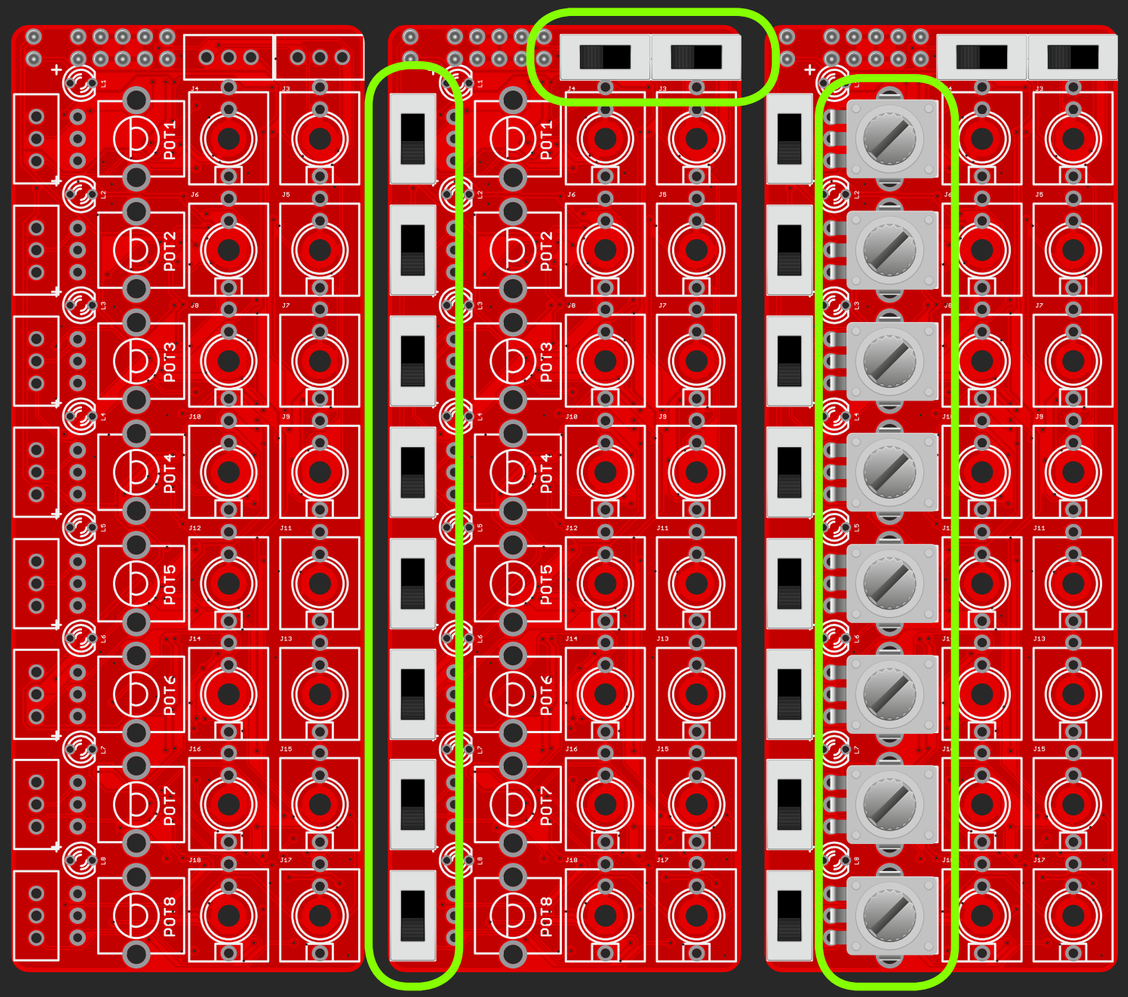
10. Solder the two 10uF capacitors
    NOTE: watch out for their orientation!
    Match their shape with the PCB drawing.

11. Solder the 16 × SMD LEDs
    NOTE: the little T markings on it should face the line on the PCB silkscreen.
    These are optional for the jack lights.
    They draw a considerable amount of current on the +12V rail. (About 90mA)



02. BUILD

12. Solder the 2x5 pin power header and the 1x2 header for the jack lights.
    The 1x2 header is optional



13 14 15

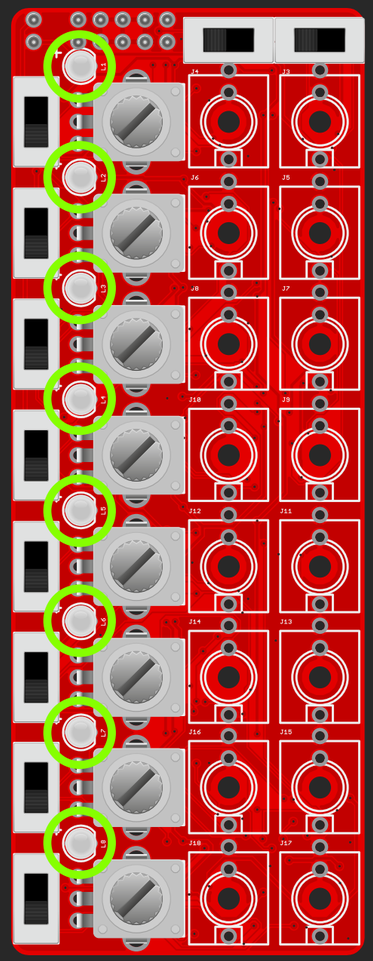
02. BUILD

13. Flip the board and orient it as on the picture.

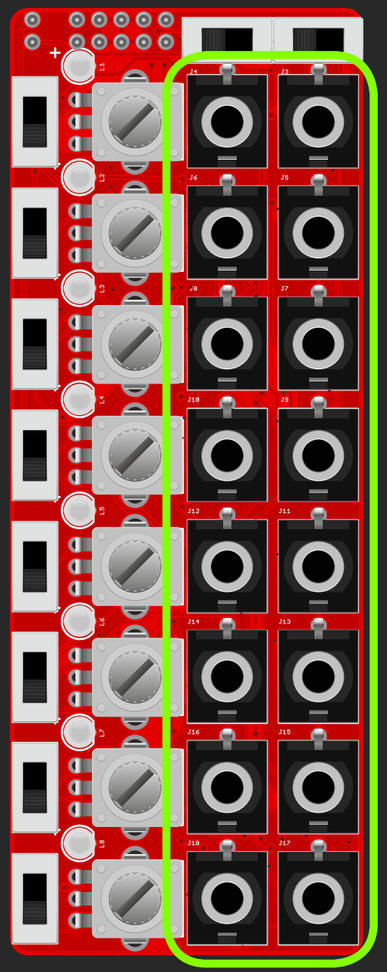
DO NOT SOLDER YET!

14. Place the 10 mini switches

15. Place the eight 10kB potentiometers.
    They should be the T18 shaft type so that the knobs can be oriented properly.



16



17

02. BUILD

16. Place the 8 bicolor LEDs
    Long leg goes into the hole marked with +.

17. Place the 16 jacks.

Now place the front panel on top, put the nuts on the jacks and pots, align everything nicely. If you like how it looks, solder everything on the other side!

You are done with building! Congratulations! ☺

ATN8 is designed by David Szebenyi under Antumbra.
Inspired by the Mutable Instruments Shades
by Émilie Gillet.

www.antumbra.eu

Manual by David Szebenyi (www.aman.hu)