



← Top PCB

1) Solder the resistors according to their value. Identify the resistors by their colour code or using a multimeter.

5	1k	R3, R14, R15, R16, R19	Brown black black brown brown
2	10M	R5, R8	Brown black black green brown
3	10k	R1, R2, R4	Brown black black red brown
2	100k	R9, R11	Brown black black orange brown
1	22k	R6	Red red black red brown
1	2k	R13	Red black black brown brown
2	3k	R17, R18	Orange black black brown brown
2	47k	R7, R12	Yellow violet black red brown
1	68k	R10	Blue grey black red brown

2) Now with the capacitors

1	1n	C7	102
1	1u	C8	105
1	10n	C3	103
2	100n	C5, C6	104
1	470n*	C4	Yellow .47k100 *

*470n capacitor on bottom pcb for this version (v02)

3) Solder the Zener diodes: **D3, D4, D5, D6** labelled with 4V7 or 230B. *(foto polaridad)*

4) Now the Transistors, **T1 = 2N3904** and **Q1, Q2 = 2N3819** *(foto polaridad)*

Bottom PCB →

5) Solder the diodes **D1, D2 = 1N5817** and ferrites **F1+, F2-** using a cut leg of the diodes. *(foto polaridad)*



6) Now 2x5 **power pins and sockets**

7) Insert the ICs: TL072 and TL074 in their sockets. *(foto polaridad)*

8) Place the potentiometers:

RATE = 100k (104)

SKEW = 1M (105)

jacks, switch and the **led** (long leg to +) **without soldering**. Place the panel and screw the potentiometers, jacks, switch and put the led in his place, now it is time to solder all.

9) knobs and Ready!

10) Thank you and enjoy it!

