

PCLONE2

Thank you for buying this kit! PCLONE2 is an analog percussion synthesizer based closely on the original schematics of the Boss PC-2 (which was also sold as Amdek PCK100).

PCLONE2 is a treasure trove of analog bleeps and bloops, and is designed to be easily modified with three sockets ready for CV inputs (a set of easy mods are documented online)

This kit is of medium complexity. While this sheet contains all the information needed to know which component goes where, I really recommend that you follow the expanded online instructions, complete with build photographs, that you can find at <https://six4pix.com/product/pclone2>

I hope you have fun building and using this kit. If you have any problems, you can email me at sixtyfourpixels@gmail.com and I will try to assist.

Cheers
Jason

Component Designators

R37	330r Resistor
R6, R7, R17, R21	1k Resistor
R14, R20, R22, R44	4k7 Resistor
R15	10k Resistor
R13, R26, R27, R39, R43	22k Resistor
R8, R19	33k Resistor
R1, R2, R4, R5, R23, R28, R29, R33, R34, R38, R41, R42	47k Resistor
R18	56k Resistor
R9, R11, R12, R24, R25, R30, R31, R35, R36, R40	100k Resistor
R32	220k Resistor
R10	1M Resistor
R16	4M7 Resistor
(pre-soldered surface mount)	470R Resistor
R45	10k Trimmer Pot
D1	1N5817 Schottky Rectifier Diode
D2, D3, D4	1N4148 Small Signal Diode
C1, C2, C6	47nF Polyester Box Capacitor
C13	22nF Polyester Box Capacitor
C16	3.3nF Polyester Box Capacitor
C4, C5, C7, C15	1nF Polyester Box Capacitor
C3, C11, C12	1uF/50V Electrolytic Capacitor
C8	2.2uF/50V Electrolytic Capacitor
C9	10uF/16V Electrolytic Capacitor
C10, C14	100uF/16V Electrolytic Capacitor
PWR	3mm LED
Q1, Q2	2SC945P NPN Transistor
Q3, Q4	2N3906 PNP Transistor
Q5, Q6	2N3904 NPN Transistor
IC1 .	RC4558 Dual Op-Amp DIP8 + Socket

IC3, IC4, IC5	LM2904 Dual Op-Amp DIP8 + Socket
IC6	BA6110 Single Op-Amp SIP9
HEADER 1	Six pin female single-in-line 2.54mm pitch
HEADER 2	23 pin female single-in-line 2.54mm pitch
SENSIVITY, PITCH, RATE, DEPTH	100K Logarithmic Potentiometer + Knob
DECAY	1M Logarithmic Potentiometer + Knob
SWEEP	470R Linear Potentiometer + Knob
CLICK, VCO WAVE, MOD WAVE	SPDT Toggle Switch
SWEEP DIR	DPDT Toggle Switch
TRIG. CV1*, CV2*, CV3*, OUT	Panel Mount 3.5mm Switched Mono Jack Socket (* unconnected, ready for mods)
9VDC IN	2.1mm Power Socket
PIEZO DISC	With adhesive foam pads
HOOKUP WIRE	Insulated wire Uninsulated tinned copper wire
ACRYLIC CASE PANELS	Top panel Bottom Panel 1 x 3mm front panel 1 x 3mm rear panel with hole for power socket 2 x 3mm side panels 2 x 5mm side panels Etched face plate
CASE FIXINGS	4 x 11mm M3 standoff 6 x 8mm M3 hex head machine screw 4 x 12mm M3 hex head machine screw 4 x M3 pozi head machine screw. 4 x M3 washer 4 x M3 flanged nut, 2 x M3 hex nut, 4 x self adhesive rubber feet
MAIN PCB	
PANEL PCB	With attached surface mount headers



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Handmade in Brighton, UK