

**NOISE BOM V8, 2020****Noise PCB & Panel****Resistors**

R1, R10, R11, R12	4	100R	
R2, R3, R4, R9, R13, R16, R17, R18, R20, R21, R22, R24	12	1K	
R5, R6, R7, R8	4	1M	Alt: 1.2M
F1	1	10R	Alt: ferrite bead

**Diodes**

D1, D2, D3, D4	4	Zener 9.1v	ALT: DNP
D6	1	1N4001	

**IC's**

IC1	1	CD4040 + 16 PIN socket	
IC2	1	CD4093 + 14 PIN socket	

**Capacitors**

C1, C2	2	100NF	2.5mm ceramic
C3	1	470PF	2.5mm ceramic
C4	1	330NF	2.5mm
C5	1	470NF	5mm film
C6, C7, C12	3	10UF	Electrolythic
C8, C9, C10, C13	4	4.7UF	Electrolythic
C11	1	220UF	Electrolythic

**Transistors**

T1, T2, T3, T4	4	2N3904	
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**Power header**

SV1	1	10 pin shrouded	
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**Headers**

Z1, Z2	2	1X2 pin	Dupont male
PATCH	1	2X6 pin	Dupont male
FEMALE DUPONT CABLE	4		
JUMPERS	2		

**Jacks / Pots**

CV1, CV2, CV3, CV4	4	Thonkiconn	
OUT1, OUT2, OUT3, OUT4	4	Thonkiconn	
FREQ1, FREQ2, FREQ3, FREQ4	4	B10K vertical 9mm	Alpha
Knobs	4		

**Screws**

4	6mm M3	
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**Patchbay**

There are 8 outputs and 4 inputs on the patchbay.

## Blad1

The 8 outputs are connected to the CD4040 Divider, each is a lower division of the main output frequency.

Patch 1 or 2 female Dupont cables from the 8 outputs to input "3" or (inversed) "4"

These signals are mixed together to get new combinations of noise!

Position 3 = output 3

Position 4 (inverted symbol) = output 4

### **MODS**

J1 and J2 determine the range of OSC1 and OSC2.

Place a jumper there to lower the frequencies.

Capacitor C11 determines the alternative frequency for OSC1,

C12 determines the alternative frequency for OSC2.

The patchheader sets the output patch of OUT1 and OUT2.

There are 8 possible frequency divisions.

Instead of patching these with female Dupont cables, you could make a expander panel.

Idea's: touchplates, banana patchbay, automatic switching with a CD4066 or CD4053