

Sheet1

Falafular Clawbell BOM

brainboard

100k	5
120k	1
150k*	3
47k	4
100r	2
470k	4
22k	1
10k	4
2k2	1
1k	2
270k	1
150r	1
4k7	1
2m2	1
330k	1
18k	1
15k	1
27k	1
680k	1
ferrite bead or 20r	2
5n6	1
100n	4
2n2	3
1n	3
10n	1
3n3	1
27n**	2
100p***	1
470p	2
10uF	4
0,47uF	1
1uF	3
cd4011	1
tl072	1
lm358****	1
1n4148	3
78l05	1
bc547	5
10 pin "eurorack" power header	1

panelboard

100k	10
33n*****	4
1n4148	4
100k 9mm pot plastic shaft	2
3,5mm phone Socket *****	3
GO button *****	2



a 33n is bent flat against the board to make room for the electrolytic capacitor that looms over it

* these have an effect on the overall frequencies of the two

Sheet1

oscillators in the cowbell. Up the value for lower frequency

** lowering the value of the 27n near the power header affects the sound of the clave.

2n7 makes it very short and bright. 27N for a more "woody" sound

*** this one isn't really necessary

**** you can also use lm358 here

***** on version 1.0 one of these is on the backside of the board. Solder it on loosely so it can be bent flat against board or it will be in the way of an electro on the other board like in the picture above

***** Kobiconn 16pj138 or Thonkiconn (Thonkiconns don't fit Perspex panel)

***** E-switch 320.02e11.08

Order from Digikey <http://www.digikey.nl/product-search/en?vendor=0&keywords=320.02E11.08>



This is what it is supposed to look like in the end. Don't forget to solder pieces of resistor clipping in to ground the phono connectors.