

Additional 555-VCO BUILD NOTES

1)

in the original schematic of the VCO from thomas henry we three times a resistor R26, whereas R25 is missing completely.

so here are the values corresponding to the PCB labeling that are not covered correctly by the schematic/parts list:

R25 - 300k

R26 - 39k

R55 - 5.6k

2)

when powering from 12V:

R13 = 2k

R27 = 22k

R33 = 137k

3)

when you have a hard time finding a precision trimmer with 25k, just use 20k. should do the job as well.

4)

Try several LM13700 for best sine. the amplitude might differ quite a bit!

5)

C4 is the timing cap. use a nice COG/NP0 or a polysterene for better stability.

6)

Parts for the Control PCB

for the pots any vertical mounted 3-pin 9mm pot should do, i used alpha and alps (for the values needed refer to thomas' schematic).

for the jacks i used the PJ301-BM. there is a new high quality version available with berillium copper from

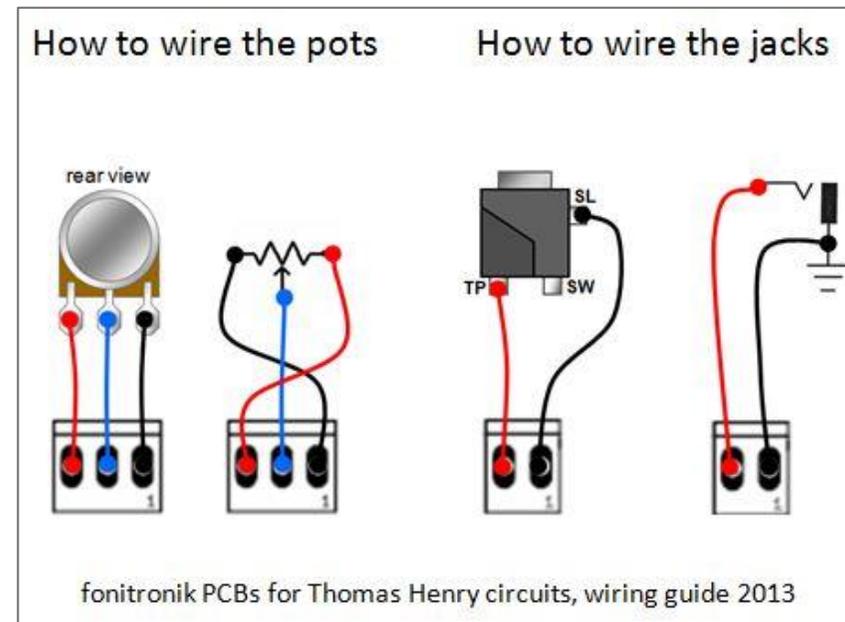
[THONK \(Europe\)](#)

or

[ERTHENVAR \(USA\)](#)

to connect the control board to the circuit board you will need single row headers and receptables.

if you build the VCO w/o the eurorack frontpanel components PCB you will have to manually wiring it up, which is a very reliable and easy to service solution IMHO. here is a diagram showing how the MTA-100 headers refer to the components:



Link to original Documentation

<http://electro-music.com/forum/topic-54623.html>

