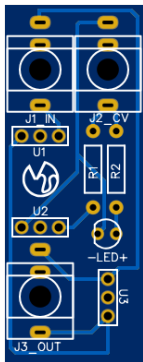
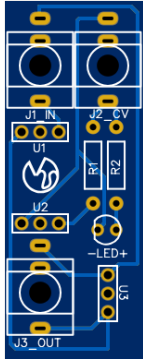
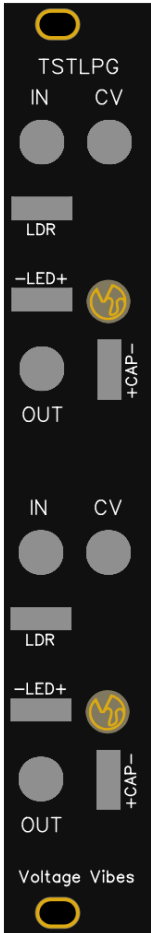


TSTLPG with holes BOM



2x vactrols of your choice



2x capacitors of your choice



2x LED's of your choice



4x 300 ohm resistors

!! Check the datasheets of vactrol and LED if you want to be sure 300 ohm will suffice in most cases



6x low profile 3pin headers

Mouser No 517-929870-01-03-RA
Digi-Key Part No 3M157231-ND



6x normal 3pin headers

Mouser No 200-SSW10301TS
Digi-Key Part No SAM1213-03-ND



6x thonkiconns

!! discard both the headers when building TSTLPG without holes

BUILDORDER

Step 1

Tin the outer legs of the normal pin headers ever so slightly. Stack the normal headers in the low profile headers. Make sure they fit. You can leave them stacked.



Step 2

Solder the resistors in place R1 + R2

Step 3

Place the LED correctly (mind polarity) and the thonkiconns. DO NOT SOLDER YET! Place the front and tighten the thonkiconns. Push the LED in position. Make sure every component is place.

Step 4

Solder the thonkiconns and solder 1 leg of the LED. Make sure it is in front of the logo. You can easily reposition the led with 1 soldered leg by reheating it, position it and when happy let the solder harden and solder second leg

Step 5

Push the stacked headers through the holes in the frontpanel. Make sure the lower profile headers are flat on the board. Solder the legs of the headers. Middle ones are not used in the schematic.

Step 6

Put the vactrol in it's correct position in the 2 3pin headers. Push the capacitor in place. You can shorten the leads of the components to make a thighter fit.

Step 7

Screw in the module and start testing out different vactrols !!! Don't forget to send us your favorite combo's of LDR/led/cap to facebook or instagram!!

!! when building TSTLPG without holes
Skip step 1 + 5
Step 6: Solder vactrol and cap in place

MODUS operandi

IN= audio input
CV= 0....10v of fun :) Negative voltages will have no effect
OUT= The result of the CV provided to the audio signal

Basic Patch
Connect the output of a vco to IN. Connect a gate signal to CV
Connect OUT to outbound audio interface and listen to the output :)

Testing Patch

Provide the same audio signal to both inputs with a mult
Connect an alternating gate signal with a clocking module like Pamela's New workout, a sequential switch or sequencer to the CV inputs

first test with only the vactrols in place. This wil make it respond like a vca.
Capacitors of different values will cut out the high frequencies.
The choice of capacitor is subjective to taste so play around with it to find your favorite

Hacker Patch

You can utilise the header outputs to accomplish different results. When you check the schematics you will notice that the LDR header will provide a serial "tap" and the capacitor a parallel "tap" to ground.

Voltagevibes will not be held accounted for any damage by utilising the pin headers in unintended ways.