

FREQUENCY CENTRAL

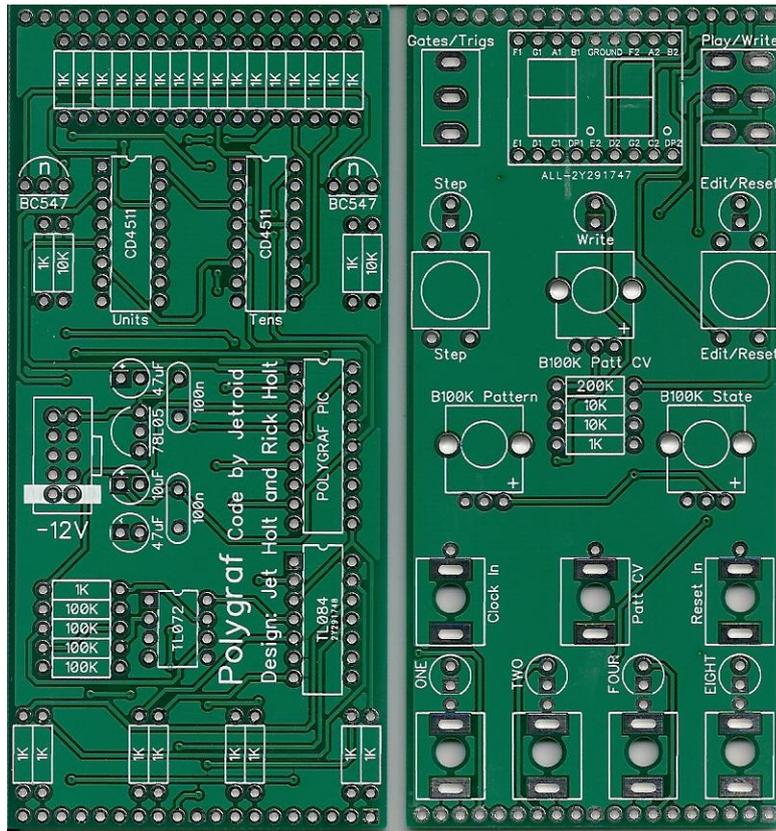
Build documentation for:

POLYGRAF

Featuring code by Jetroid

Main PCB

Pots 'n' sockets PCB

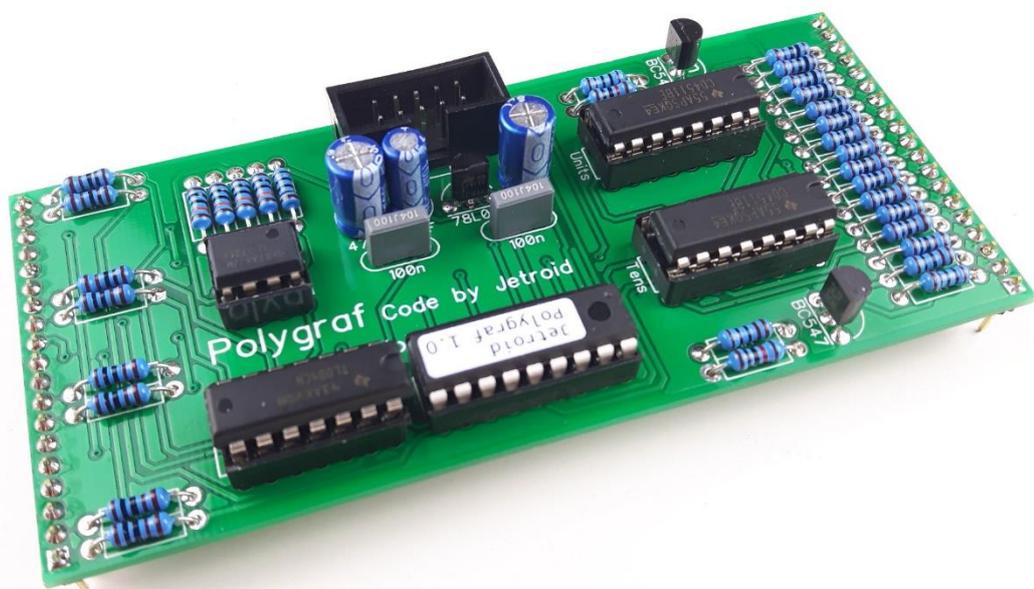


Bill of Materials

<p>1K x 27 10K x 4 100K x 4 200K x 1</p> <p><u>All resistors ¼ watt metal film.</u></p>	<p><u>100nF x 2</u> <u>10uF x 1</u> <u>47uF x 2</u></p>	<p>POLYGRAF PIC</p> <p><u>CD4511 x 2</u> <u>TL084 x 41</u> <u>TL072 x 1</u></p> <p><u>BC547 x 2</u> <u>78L05 x 1</u></p> <p><u>2 digit LED display, common cathode, 0.56"</u></p> <p><u>3mm red LED x 6</u> <u>3mm green LED x 1</u></p> <p><u>18 pin IC socket x 1</u> <u>16 pin IC socket x 2</u> <u>14 pin IC socket x 1</u> <u>8 pin IC socket x 1</u></p>	<p><u>B100K x 2</u></p> <p><u>B100K x 1 (or this)*</u></p> <p><u>3.5mm socket x 7</u></p> <p><u>SPDT on/off/on x 1</u> <u>DPDT on/on x 1</u></p> <p><u>Tactile switch x 2</u></p> <p><u>Male header x 1</u> (cut to size) <u>Female header x 1</u> (cut to size) <u>Power header x 1</u></p>
<p>* I prefer the Song Heui tall trimmers because they have a longer shaft and a white notch.</p>			

Main PCB assembly

1. Solder all resistors
2. Solder all five IC sockets
3. Solder the non electrolytic capacitors
4. Solder the 2 x BC547 and the 78L05 – watch the polarity!
5. Solder the box power header. Make sure the notch lines up with the screenprint legend. If in doubt, have a look at a power cable, and make sure when inserted into the header the red stripe lines up with the -12V screenprint.
6. Solder all electrolytic capacitors
7. Cut male headers to size and solder them into place. Make sure that they stick out of the bottom of the PCB.



All done! Now [RTFM!](#)

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