

Jerkoff module - <http://www.sdiy.org/pinky/data/single%20JERKOFF.pdf>

This circuit is based on a Jerk chaos design by J. Sprott and modified for practical use as a synth module.

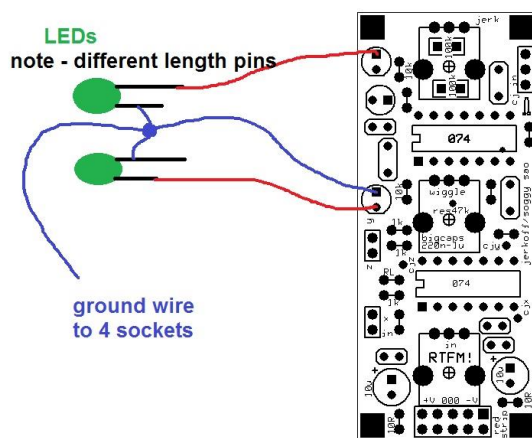
It is easiest to install components from lowest to highest, so sockets first, then resistors, then capacitors, finally all the extra bits.

- install the two 14 pin sockets, make sure the notches on the sockets match the image on the PCB
- install the two 10R resistors (near the bottom of the PCB)
- install the three 1k resistors. There are also two places marked “10k”, install 1k resistors in those two places.
- install the five unmarked resistors, these can be 51k or 47k
- install resistor RL, this controls the brightness of the LEDs. For regular LEDs use 470R, for superbrights, use 6k8 – 10k.
- install the four small capacitors, these are marked by small rectangles with rounded edges. Install 47n or 100n caps here (the little orange ones). *These capacitors do not like much heat, so work quickly and let them cool down before soldering the 2nd pin.*
- install the three larger capacitors. These are 1uF, marked by large rectangles with rounded edges.
- install the two 10uF caps, it is important the long pin of the cap goes in the square hole.
- install one small red LED. You can see spaces for three LEDs on the upper left side of the PCB. The one nearest the corner and the one with a “y” next to it go on the panel and are connected by wires. The middle one is for the small red LED, longer pin goes in the square hole.
- install the power connector pins.

You do not need to install the surface mount resistors, and nothing to the “CJ in” section, these are for the quad version.

At this point, your PCB is done, check to make everything is in place and nicely soldered.

- Grab your panel and install the 4 sockets and the two LED with their holders, solder a piece of bare wire to connect the ground tabs of the four sockets and the ground pins of the two LEDs (see example)
- Attach *but do not solder* the pots to the PCB, just get them sitting in place. Attach the PCB to the panel and screw on the nuts.
- Once everything is attached and nicely lined up, solder the pots to the PCB, the three main pins and the two side tabs.
- There are seven wires to solder from the PCB to the panel components. Measure out 7 pieces, strip and tin the ends.
- Solder wire from the holes on the PCB marked “in, x, y, z” to the corresponding sockets.
- soldering the wires for the two LEDs is a little tricky. Notice the pins of the LEDs are different lengths, check the diagram below for how to connect them and ask if not sure.



DONE!