

Assembling the PCBSNR kit

First, a list of components. They are listed in the suggested assembly order.

Begin from the top, and check boxes as you go along. I suggest you watch some soldering tutorials before you begin if this is your first DIY project ever.

One note about the PCBSNR—it's modelled after a strip-board synth, so it has a lot of extra holes that you can mistakenly put the components in. Make extra sure you've put the component in correctly before soldering. The holes for components have a bigger silver ring than the other ones. Double check!

The extra holes mean that the SNR is easy to modify. See website below for tips.

- 1x** socket, 8-pin DIP
- 3x** resistors, all 10KOhm (blue with stripes: brown black black red brown)
- 2x** electrolytic capacitors, both 47uF 16V—**note orientation**, long leg = +!
- 2x** ceramic capacitors, 47nF (brown with marking: 473)
- 1x** 78L05 voltage regulator (black, three legs)—**note orientation!**
- 1x** momentary push-button changes the program—**note orientation!**
- 1x** slide switch
- 1x** led, red and rectangular—**note orientation**, long leg = +, to the left!
- 1x** mini jack, audio output
- 1x** 3-pole pin header, for mono sum.
- 1x** 2-pole pin header or female header. For patching or dc coupling output.
- 2x** potentiometers, 100k linear. Insert firmly and check before soldering!
- 2x** 3-pole pin header or female header, underneath the potentiometers. For patching (middle pin is CV input (0-5V), the outer pins are GND).
- 1x** PIC12F1840, or **Radical Chip**. Carefully place over the socket, with the little U-shape (notch) facing right and gently push down. The legs are pre-bent so it should fit fine on the first try. **Note the orientation**: notch right.
- 1x** battery lead—note the two holes for strain relief. Run the wires through these before you solder them on. If you don't the wires/joints will quickly wear down. It's the weakest point on any PCB synth. **Note orientation**: positive (red) to the right, negative (black) to the left.

If you want to, you can avoid batteries by soldering on a DC barrel jack socket, e.g. Boss standard (centre negative) instead of the battery clip.

The diagonal screw holes (M3) are useful if you want to attach the SNR onto something. Distance is: vertical: 38.1mm horizontal: 54.24mm diagonal: 65.55mm.

For more information and mods: www.noise.technology/diypcbsnr.html

