

--=|||[[[SEEDS]]]|||=--

It is easy... so, let's start building!

First of all get your desk ready and make sure you have the necessary tools:

- soldering iron
- soldering tin
- cutter (the ones like in the picture are the best but a small nail clipper will do the job too)



Follow the next steps in the order it is written down.

After each step flip the board and clip off the wires.

Diodes 1

D1/D2/D3/D4/D5/D6 BAT43 (Blue with black stripe)

Make sure you solder them in the right direction! There is a black marker on one side which should correspond with the marker on the PCB **like on the drawing.**



Resistors

R1/R2/R12 1K (brown – black – red or blue resistors)
R3/R4/R5 3K6 (orange – blue – red)
R11 150R (brown – green – brown)
R6/R8/R9/R10 10K (brown – black – orange)
R7 100K (brown – black – yellow)

Diodes 2

D7/D8 1N4001 (black with white stripe) **Mind direction!**

Capacitors

C2/C3/C6 104 (100nF)
C4/C5/C7-C11 103 (10nF)
C1 330nF (blue cap)
C12 100nF yellow poly cap
C13 1uF big red WIMA
C14/C15 860pF small red WIMA
C16/C17 10uF

Mind that cap C16 and C17 have two sides (a + and – side) so it is important to check the direction before you solder them! The – side is marked on the PCB with a small “–” and has a square pad.

LED

The clear LED should be soldered sitting flat on the board above the second jacksocket from the left. The LED has a short and a longer leg. The longer leg goes into the square pad and the shorter leg on the side marked with a little“-”.

Power regulator 78L05 (Don't mix it up with the transistor!!!!!!)

This is the black thing with 3 feet which looks like a transistor, there is 78L05 written on it. Mind the direction drawn on the PCB!

Transistor Q1 BC547 (Don't mix it up with the power regulator!!!!!!)

This is the black thing with 3 feet which looks the same as the 78L05, there is BC547 written on it. Mind the direction drawn on the PCB!

Opamp

The ic socket has a mark on one side, make sure this corresponds with the mark on the PCB. On the PCB the IC is marked as TL074. After soldering place the IC corresponding the mark.

Tall pushbutton

It should be placed on the square mark with the little cross in the middle. It fit only in one way. Press them fierly to make sure they sit nice flat on the board, you can use your thump nails on both side of the pushbutton and press till it sit flat on the board.

Potentiometer 1

This is the blue small potentiometer. This potentiometer should be placed under the 7 segment display on the left side of the board. Make 100% sure it is soldered straight vertical.

Arduino

In the kit there are two types of headers, the male headers in the package of the arduino and the two female headers. Place the male headers on the female headers and place them together on the arduino with the male headers facing the back of the arduino. Then solder the Arduino including the headers onto the back of the PCB.

Power header

placed on the back

Jack sockets, potentiometers and 7 segment display

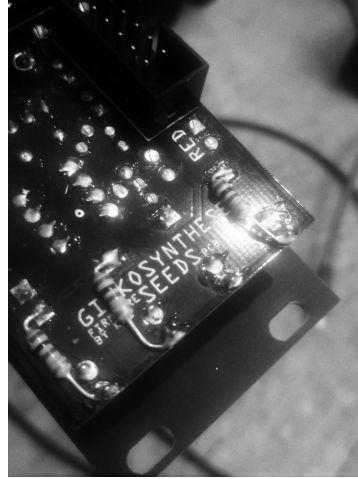
As you have soldered already one potentiometer and the tall switch you have two points fixed for the frontpanel. Now place all the other components and before you solder them put the frontpanel in place to line them all out.

Solder them after you placed and lined out the frontpanel!

The 7 segment display should fit tight against the back of the frontpanel. This way you can read the display through the little holes in the frontpanel.

Stabilization mod

3x 1M (brown – black – green) on the back of the following jack sockets between signal and GND: Pitch, Decay and Mod.



You are done **Enjoy!**