

Tubbutec Modysix

MIDI RETROFIT AND FEATURE EXTENSION

Installation Manual for Poly61 v1.0

<http://tubbutec.de>

1 Installation

The Modysix is a drop in replacement for the "key assigner" IC and thus very easy to install. Just plug and play basically. Three holes for the midi sockets and optionally the sustain pedal jack have to be drilled in the back of the Poly61 and if you want to be able to control the filter via midi there is one cable to solder.

Important: Before doing any of the steps below unplug the Poly61's power chord!

1.1 Opening the Poly61

In order to open the Poly61 you have to take out the four screws in the corners of the front panel and four screws on the underside of the synth. You can then open the front panel.

1.2 Installing the connectors

Use the stencil provided to mark the location of the three holes for the midi connectors and the sustain jack. You can choose any location for these holes.

The DIN connector with three cables is for midi out, the one with two for midi in and the jack for the sustain pedal. A drill aid for the connectors and a sticker comes with the kit.

1.3 Installing the processor board

In order to install the processor board you have to remove the existing processor labeled "key assigner" and replace it with the Modysix board. You can use a small screw driver to carefully lift the processor out of its socket. When putting the Modysix board into the socket, mind the orientation (cables are on the right side) and be careful not to bend any pins.

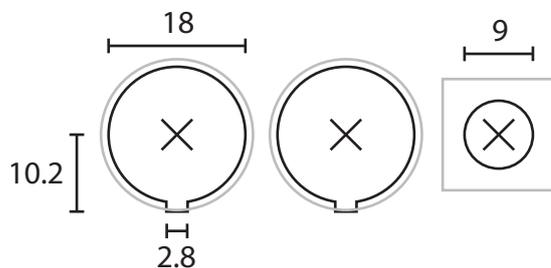


Figure 1: Drill aid for the connectors

1.4 Solder the filter cable

If you want to be able to control the filter via midi, you will have to solder one cable to the leg of a resistor as shown in figure 2. The cable is the orange wire coming from the Modysix board. If you don't know how to solder, you can find a lot of (video) tutorials in the internet.

There are two versions of the Poly-61 processor board with slightly different solder points for the filter cable: KLM-509 and KLM-475. Both versions are shown below.

1.5 Solder the pitch bend cable

The red wire is for controlling pitch bend and only available in recent versions of the Modysix. There will be a manual update shortly. If you don't use it, please insulate or cut it to avoid shorts.

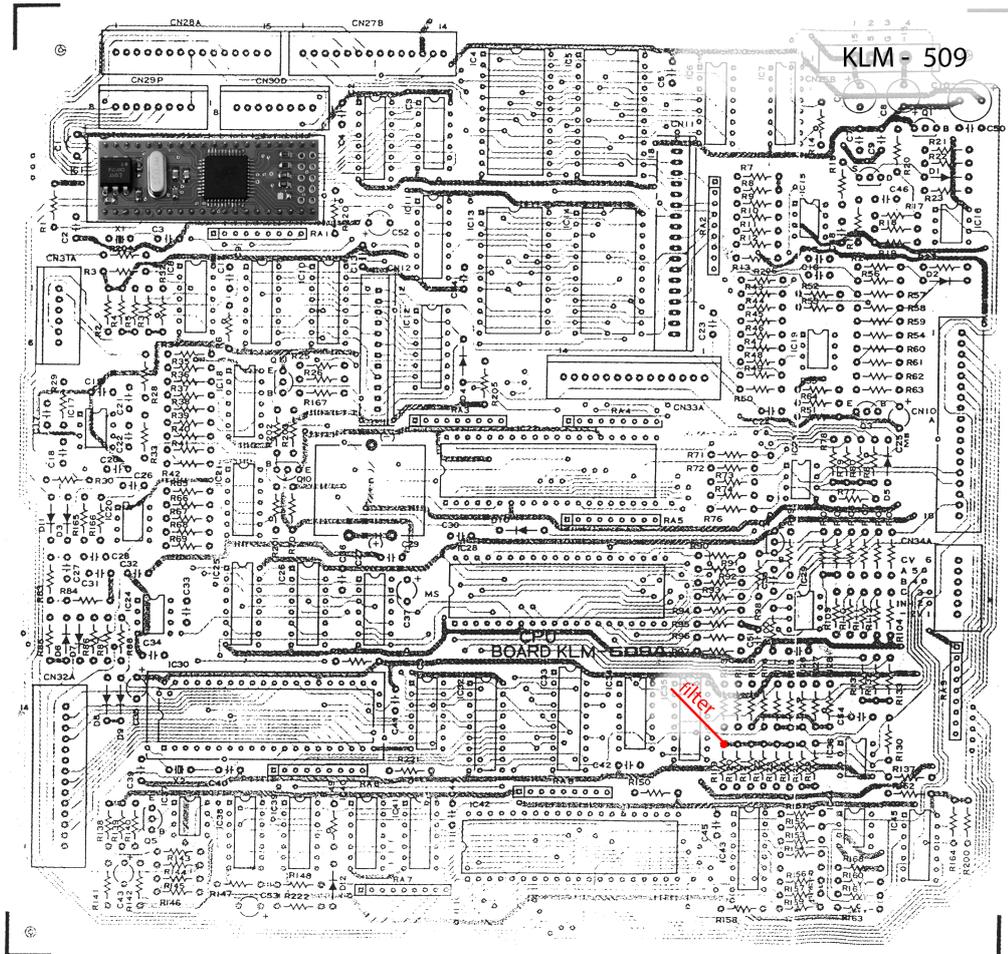


Figure 2: Placement of board in Poly61 and filter connection KLM-509

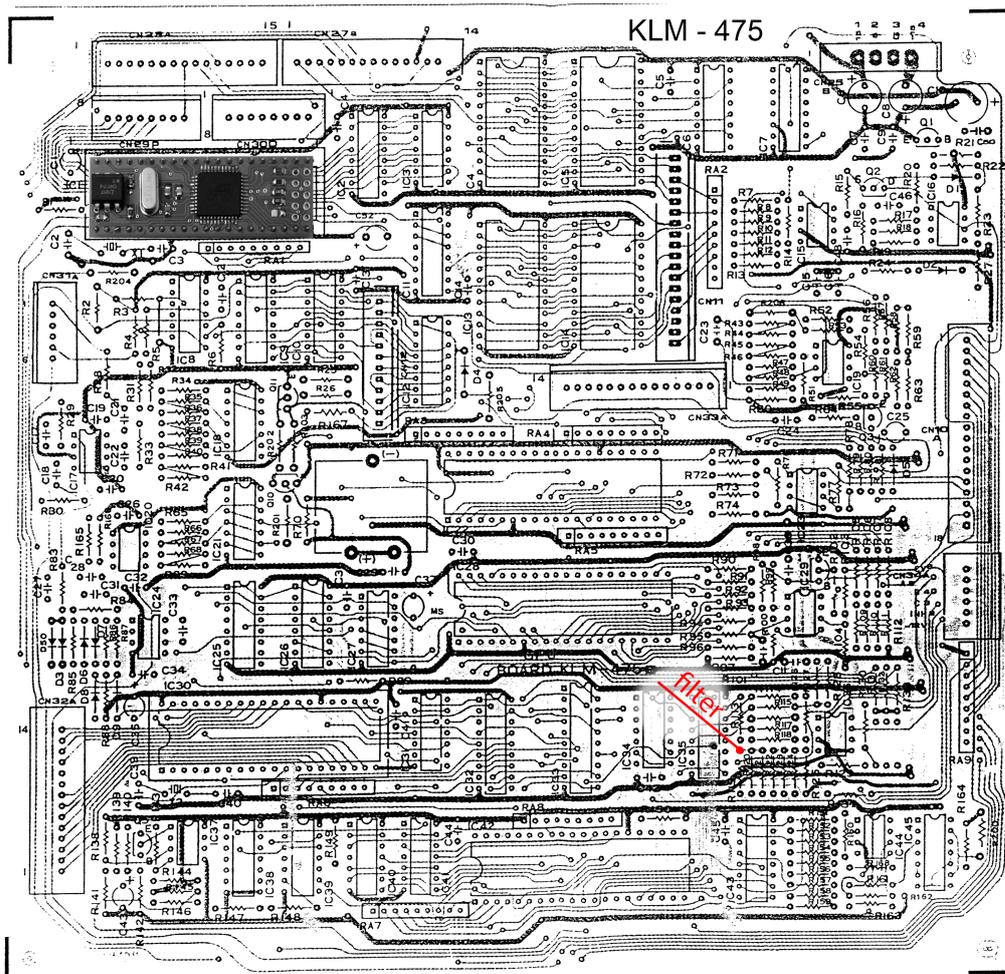


Figure 3: Placement of board in Poly61 and filter connection KLM-475