Circuit bending orchestra project
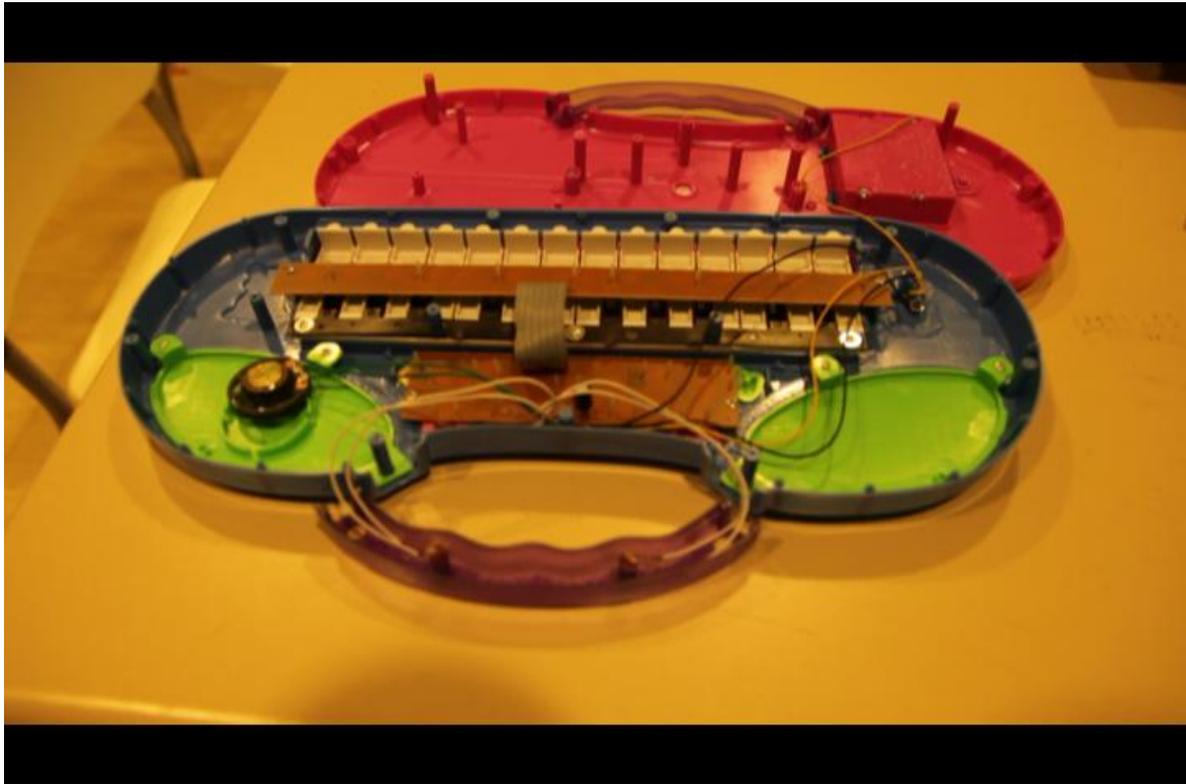
After first 3 unsuccesful tries with toys, I bought a small toy, to play with it's circuits and create a new musical instrument .There were piano sounds of an octave and some animal noises in it. My puspose was to find the resistor and manupilate the sound.
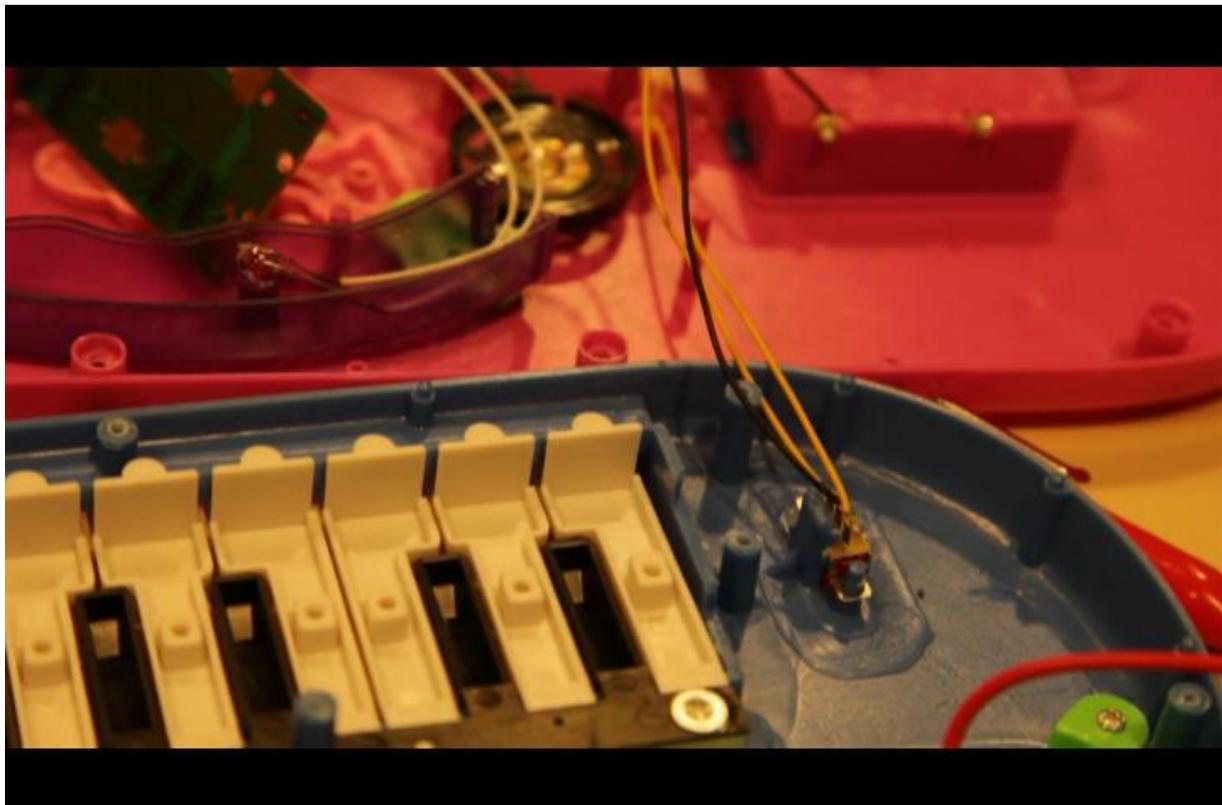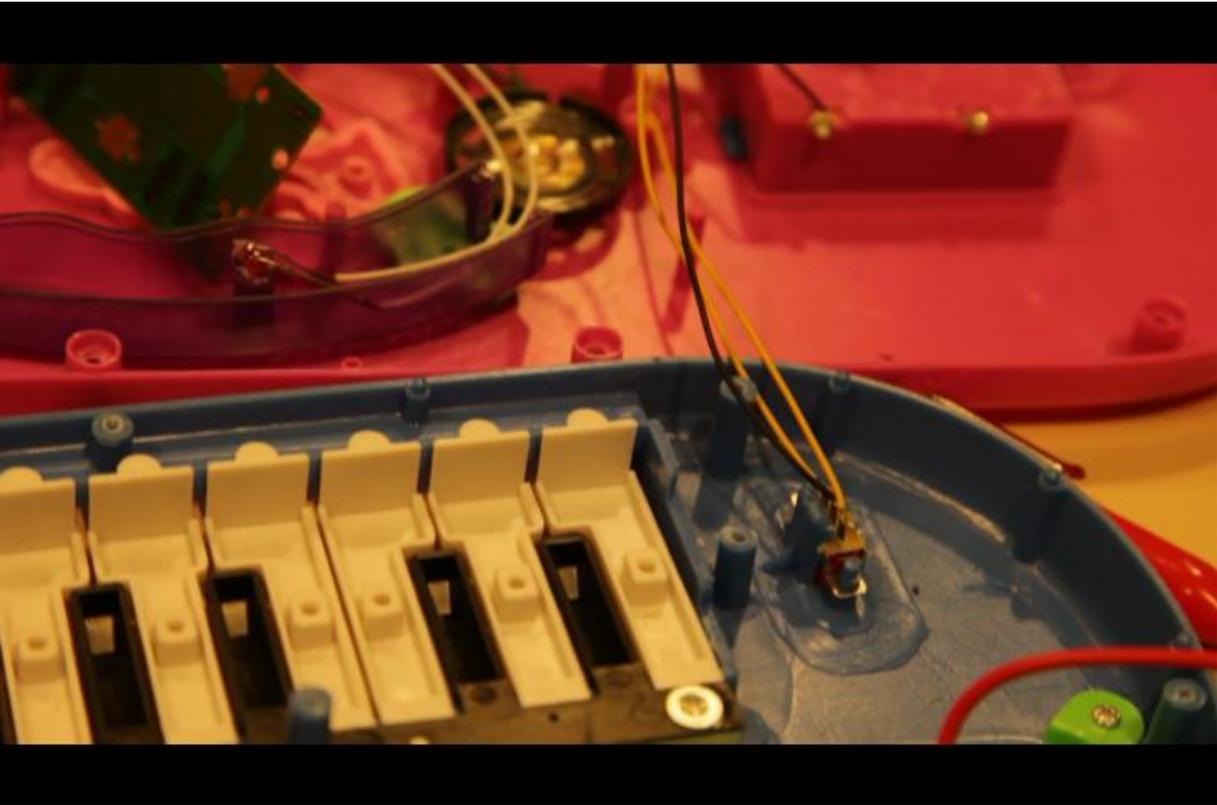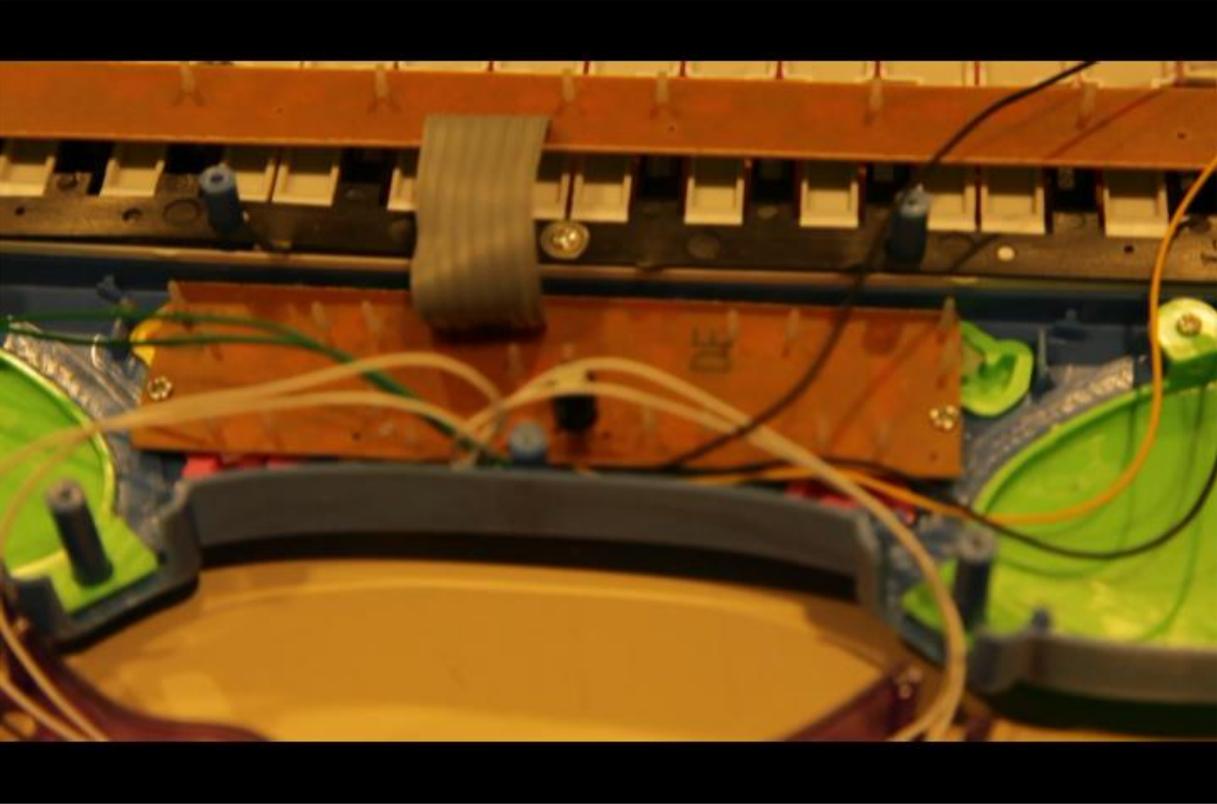

I teared the toy apart.

There were 2 batteries, plastic speakers and two pieces of circit boards inside,animals sounds were attached to the main board and piano sounds were attached tot he extra part which was actually an extention of the main board.
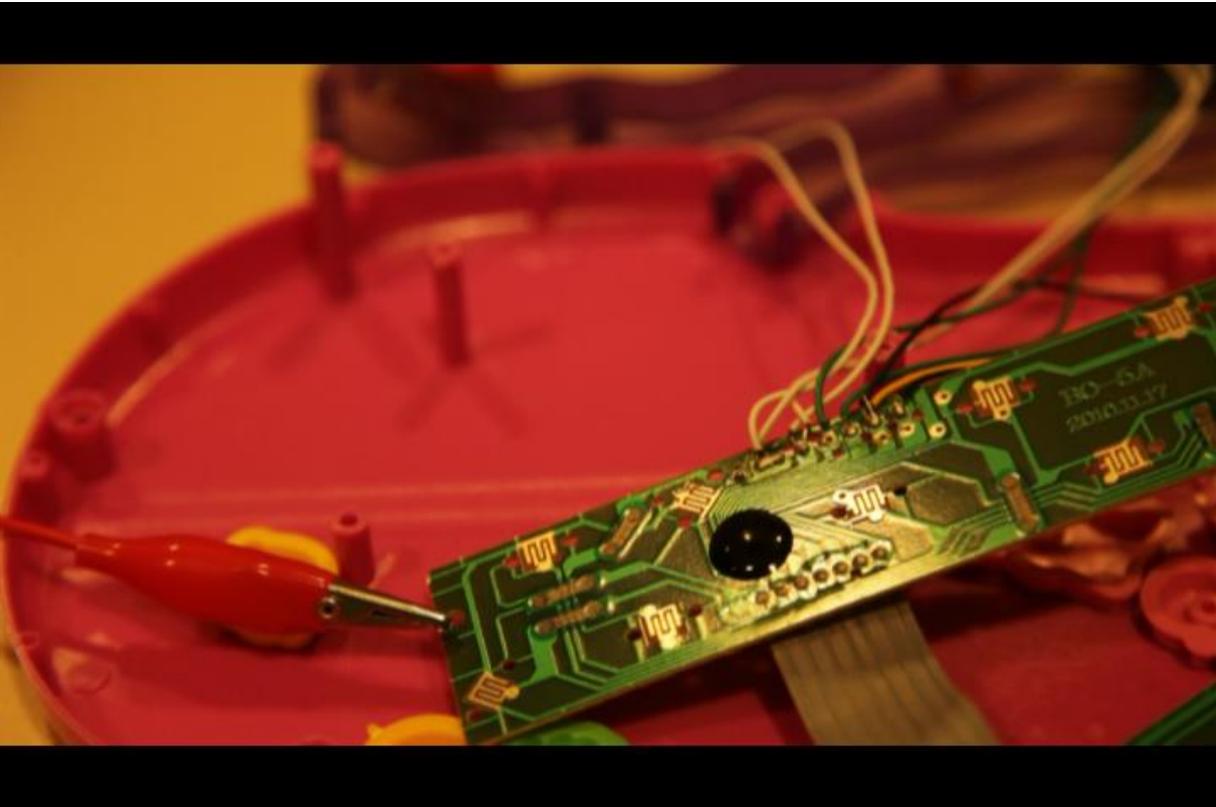

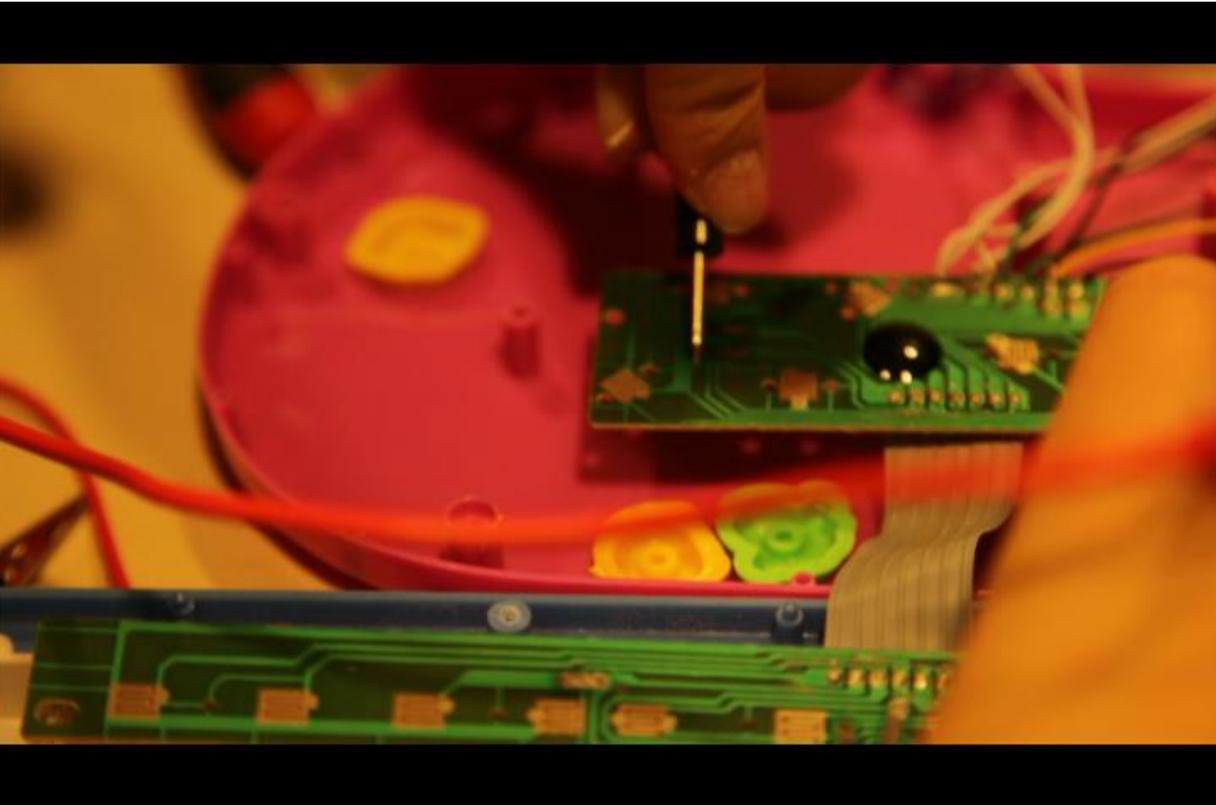There were also an open/close switch which I reduced some cables by wiring it directly to the batteries.

I have searched for resistor for very long time but again the toy had a closed(sealed) resitor which I wasnt able to remove without giving harm to it so I decided to search for interesting combinations between circuits.
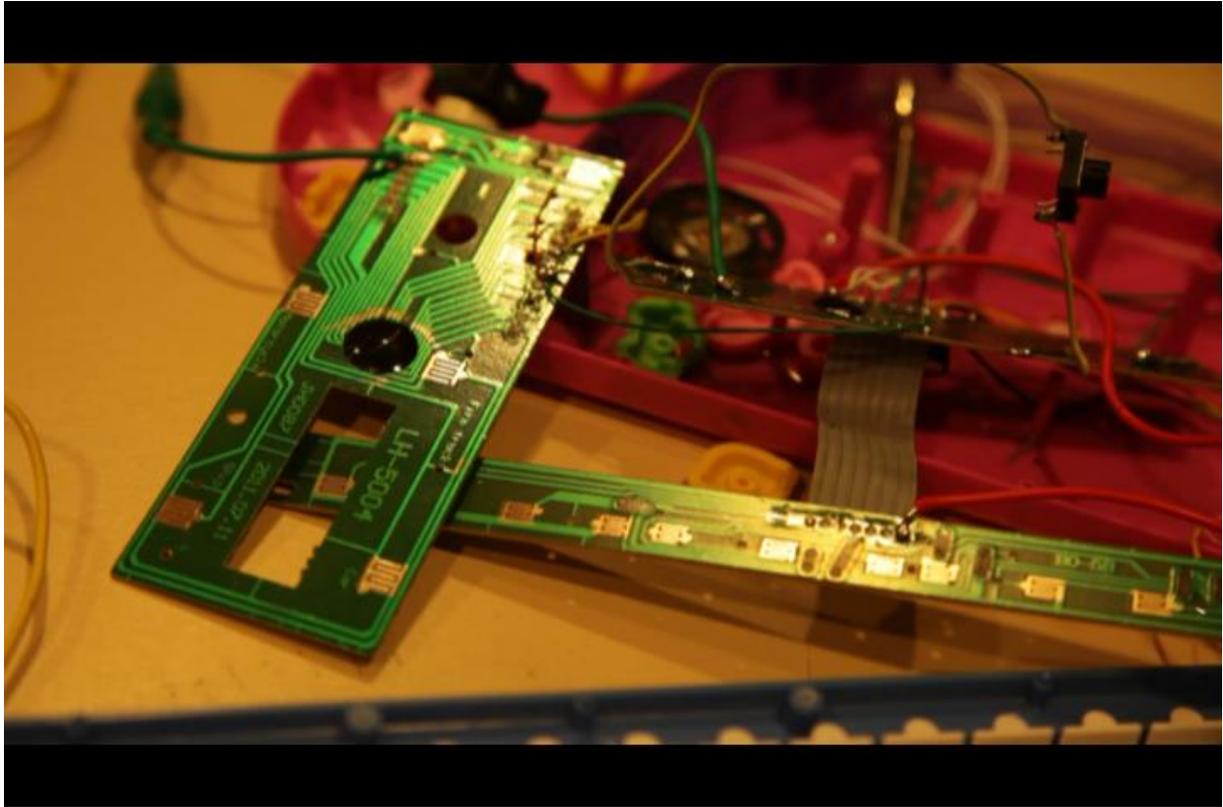
I have found the specific point when I do short circuits and they triggered some sounds, such as I marked one in here with crocodil. İn order to solder it later with a cable to its to be connection.
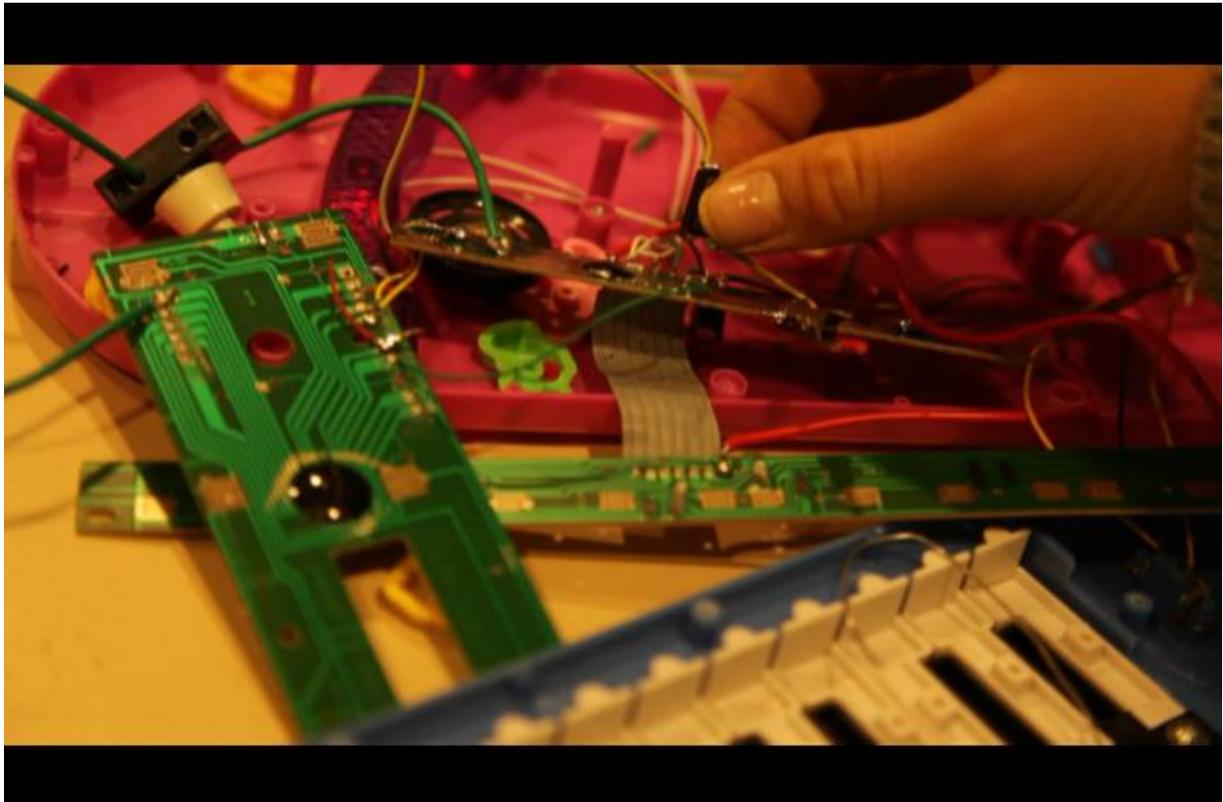

Here I am trying short circuits for interesting sound combinations.

After I found them I have started soldering the connections. In one point I have decided to add the main board of the broken toys I had used befor and processed some of the signals through that board which made it possible for me to use their both sounds(as long as you dont forget to pass the power through it)

But in my case it turned to be a distroted, interesting sound, which in finale made it possible for me to get 2 different frog sounds and one froggy bird sound.

I kept on soldering and started playing with my buttons here we can see both my boards. You had to make an input and output to a connection or a button, It was a serial wiring, had to follow the signal flow.

After I'm finished wiring,and soldering I opened holes in my plastic board with dremel tools and placed my buttons.

I cut the wires from the plastic speaker and wired them to a jag, to be able to listen it through ts cable through computer speakers.

I wrapped everythign up and had a frog orchestra.