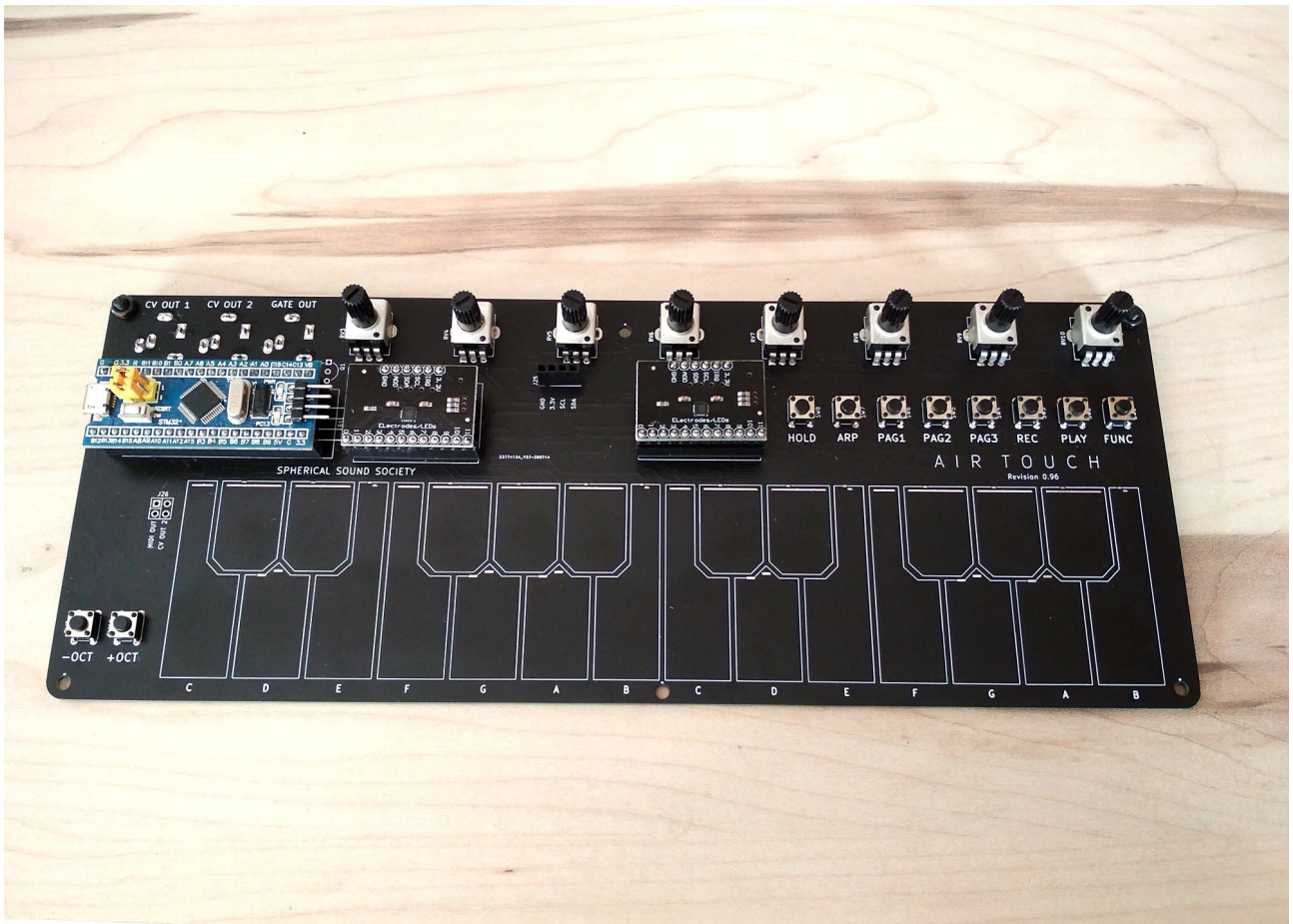# AIR TOUCHS BUILD GUIDE Rev 0.96

BOM and Build Guide

BOM Hardware Rev 0.96

Semiconductors

MPR121   x2   U1, U2 (Touch sensitive board)

BLUEPILL1 x1   BLUEPILL (Programmed bluepill)

Misc

10 x   2x4 Momentary push switches
2 x   1x12 Female sockets (for the MPR121)
2 x   1x6 Female sockets (for the MPR121)
2 x   1x20 Female sockets (for the BLUEPILL)
8 x   B10k Vertical Linear pots (any linear pot will work. 10K recommended.)
8 x   Knobs

Start soldering all the switches.

It´s important to use sockets both for the Bluepill and for the MPR121 boards.
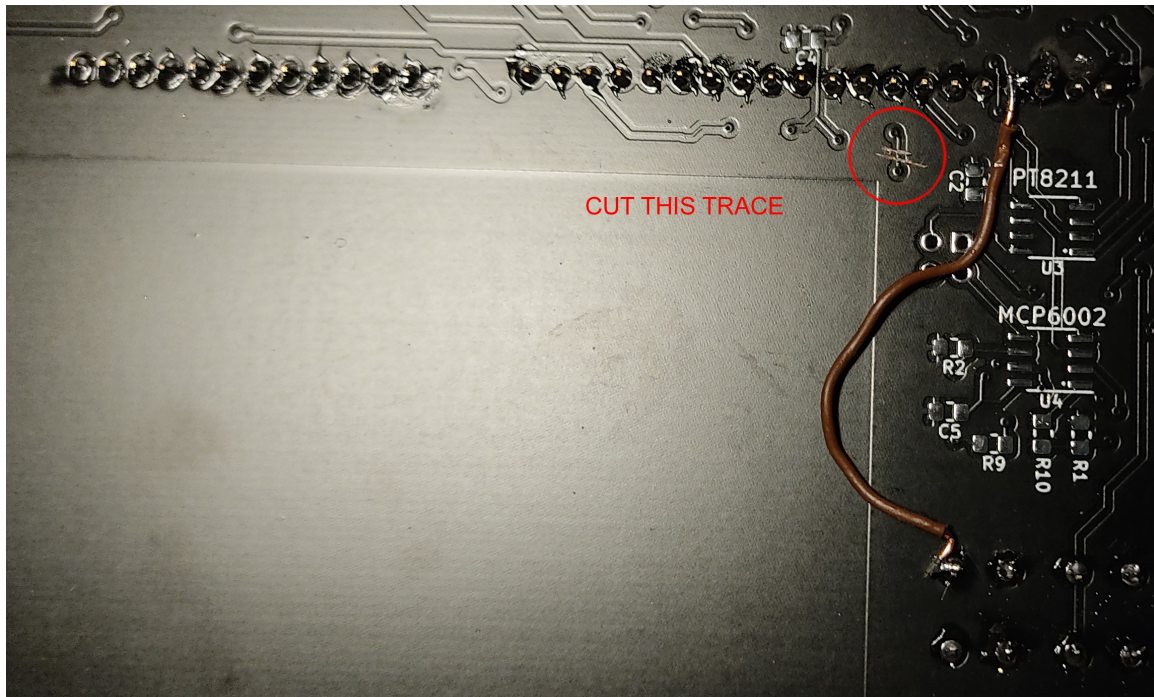
Left U1 as it is, but U2 needs you to cut the track marked as "ADD" as in the photo.
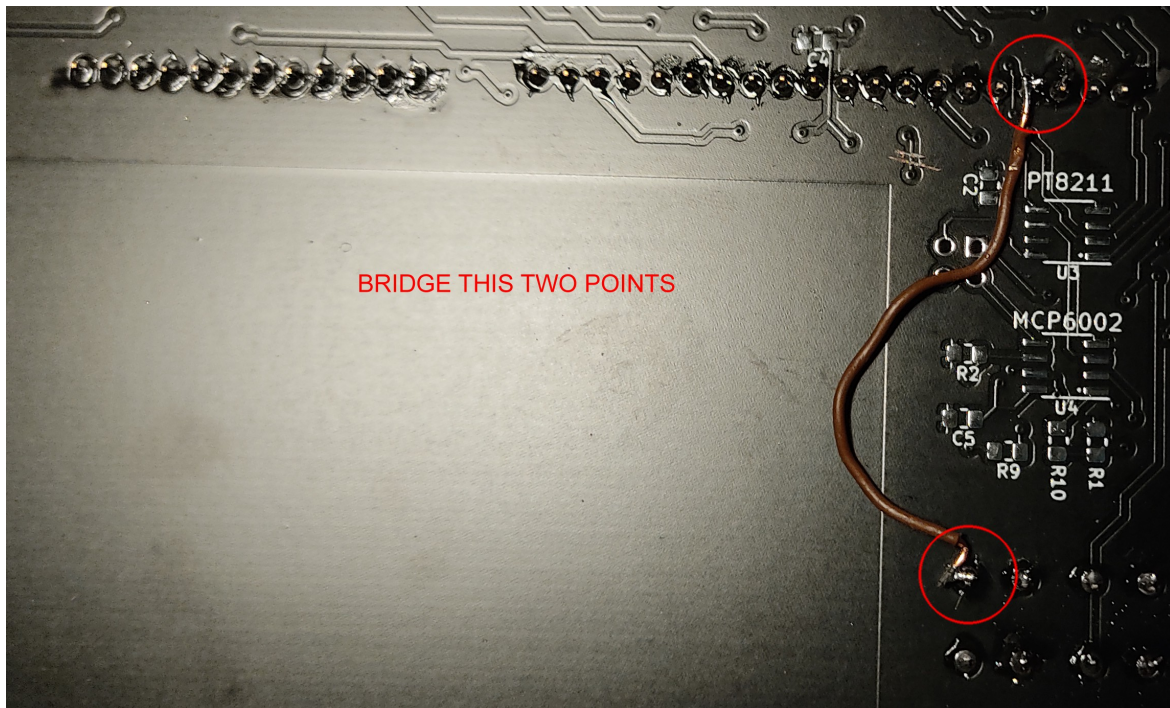

Then solder the sockets for the MPR121 touch sensors and both MPR121 boards.

Now put the bluepill in the socket and solder all directly in the PCB to get a better 90º soldering work

Revision 0.96 needs you to cut a trace:

Also if you have rev 0.96, you need to bridge this two points

Solder all the pots and the hardware part is finished, insert your programmed bluepill and its ready!.

To use it connect AIRTOUCHS to your computer via USB. Now your computer should recognize it as a midi devide (named "MAPLE"). It´s plug and play, no instal nor drivers needed.

ENJOY YOUR NEW AIRTOUCHS!