

# DK-Technologies

## Field Modification Kit

The modification kit demonstrates how to replace the tube on PPM type 477 and 478 with serial number lower than #90.000.

The kit includes:

- 1 x tube
- 1 x resistor 0 Ohm
- 1 x resistor 473 or 500kOhm
- 1 tape

Disconnect audio cables and power

### ***Disassembling the meter***

Place the meter in horizontal position.



Loosen the 4 lower screws.

Remove the 4 upper screws

Remove the top plate



Remove the scale



Remove the display driver board from the mother board

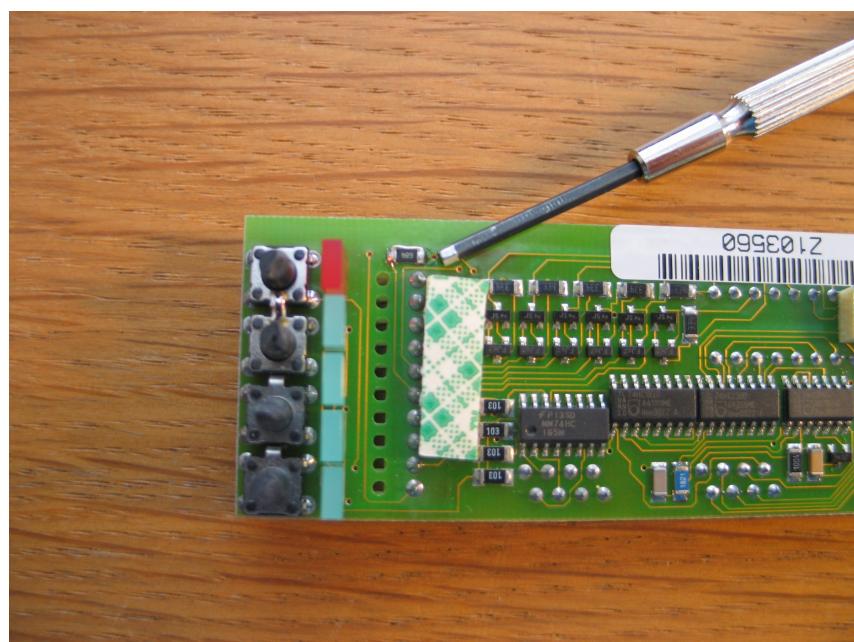


Gently remove the tube. It is fitted with tape.

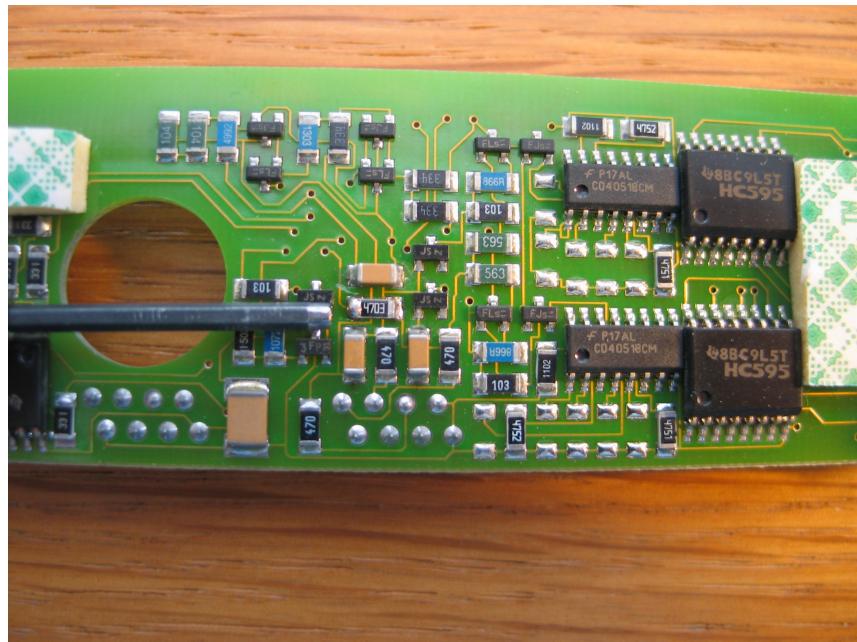
Gently remove the remaining tape on the PCB

## ***Performing the modification.***

Remove resistor R68 and replace it with 0Ohm

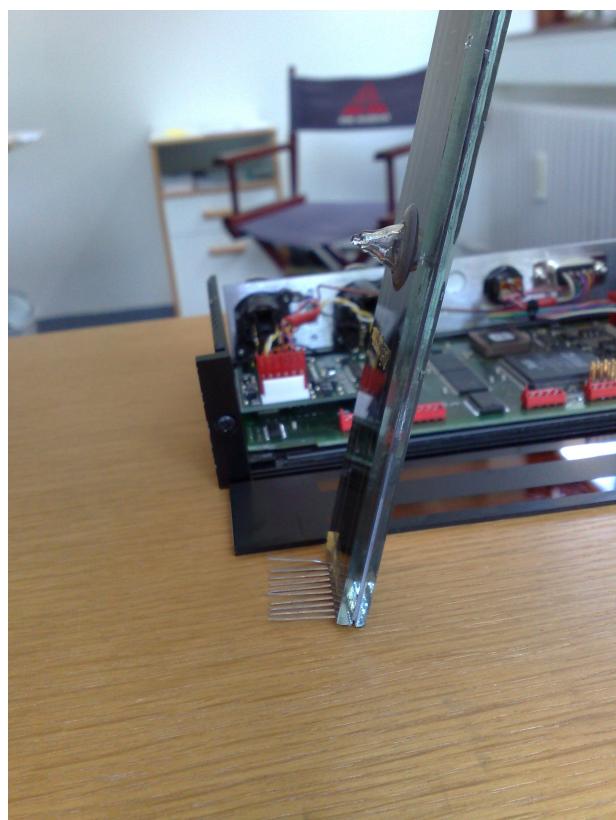


Remove resistor R21 and replace it with 473kOhm



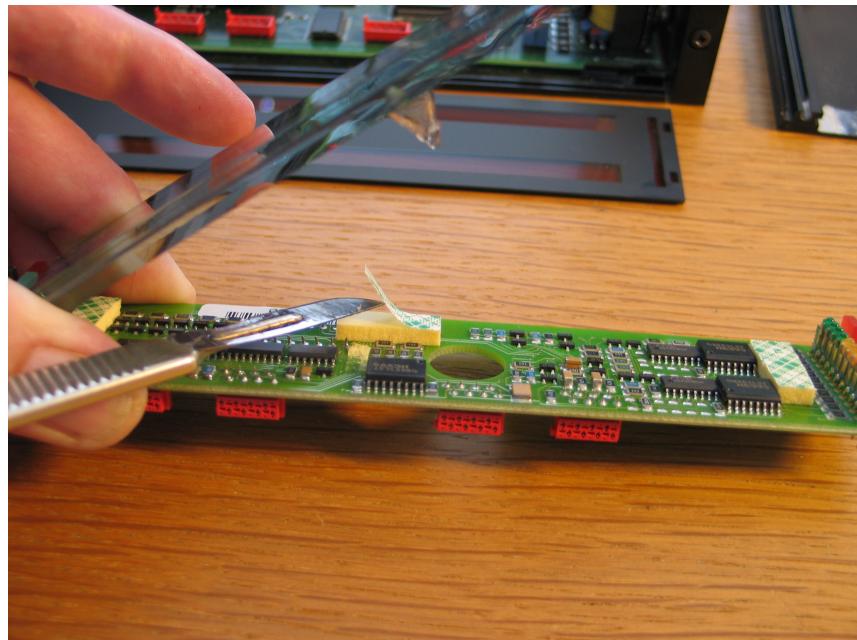
Mount 3 x tapes.

Bent the pins of the tube so they are apprx. 80 degrees

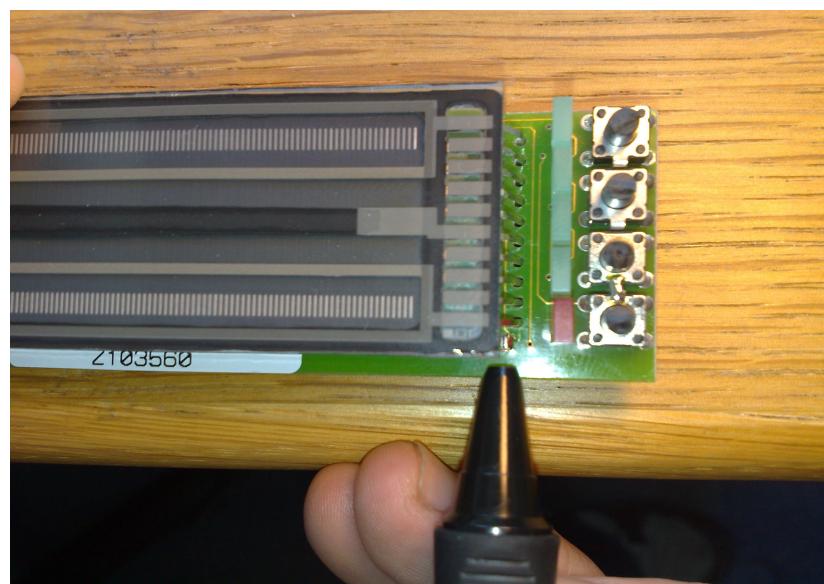


Gently insert the bargraph tube into the socket

Remove the protection on the tape



Stick the tube to the tape so that the top solder joint of the “0” Ohm resistor is visible viewed from the front



## ***Assembling the Meter***

Connect the display driver board to the motherboard.

Mount the scale

Mount the top plate. Make sure that back panel, the Display board and the scales fits into the slides of the top plate.



Mount and fix all screws.