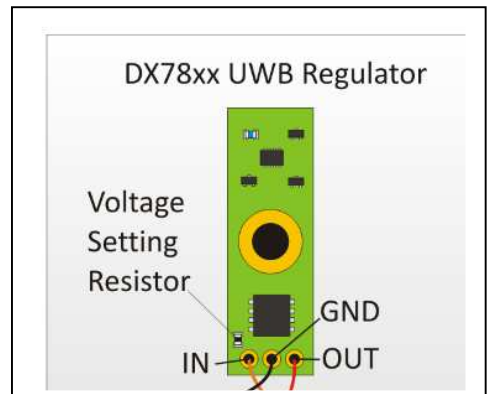
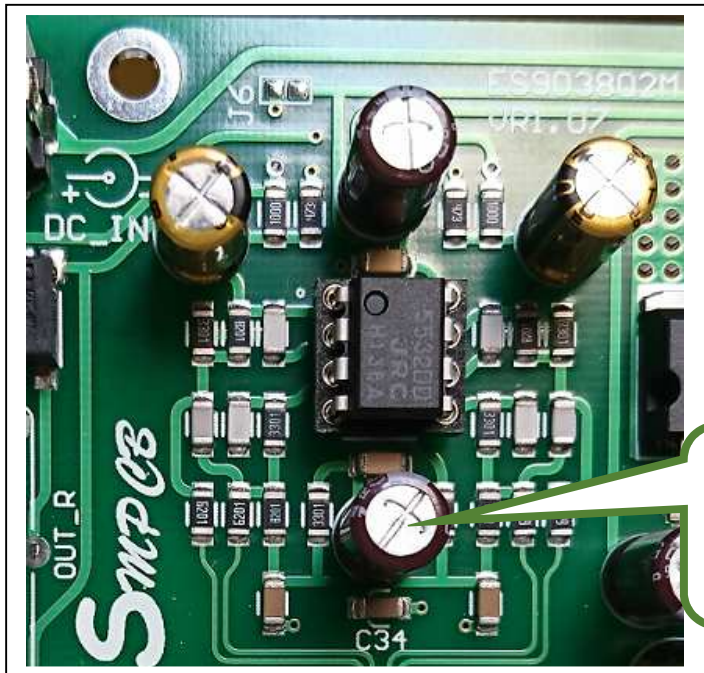
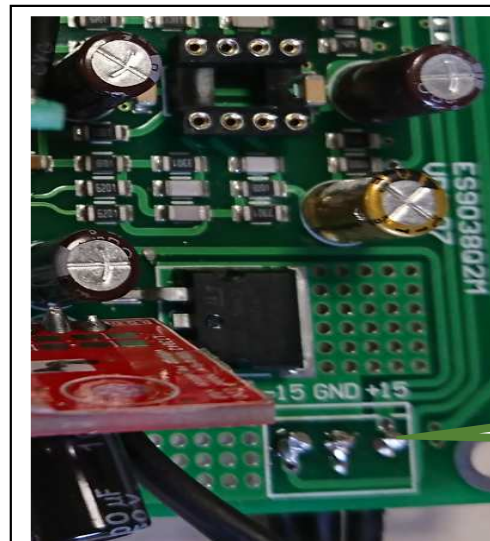


+15v / -15v mods

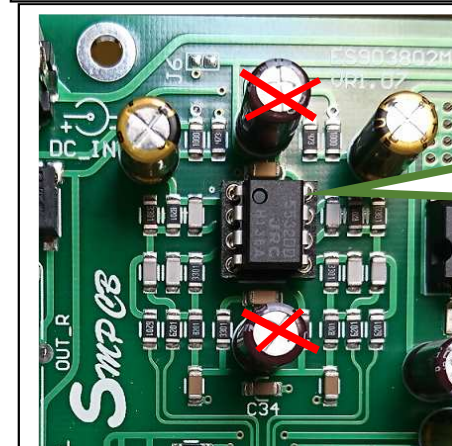


First I wanted to put the regs in place of the capa.

Not easy , not enough space



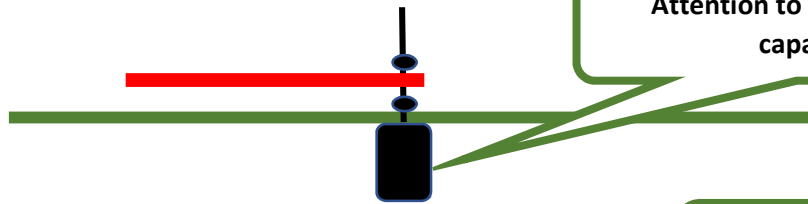
A simple solution is to put directly the regs on the -15v GND +15v inputs.....



Finally, I decided to solder the regs in place the capa .

So first I removed the two capas and I soldered two others capas under the PCB and used the leads to solder the regs.

+15v / -15v mods Not done

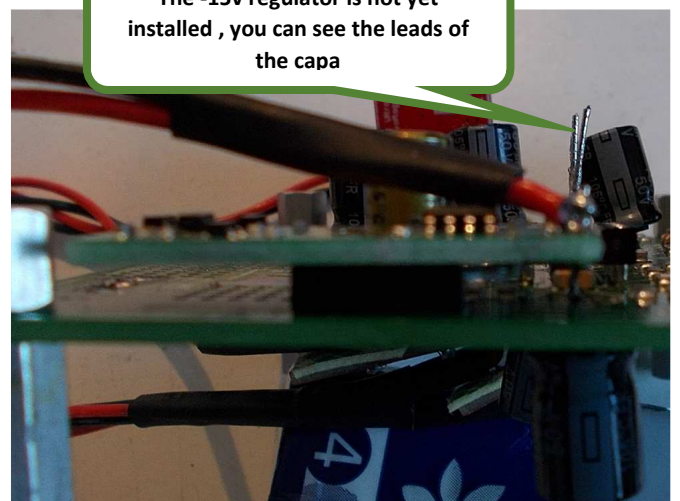


Attention to the polarity of the capacitors!!!!

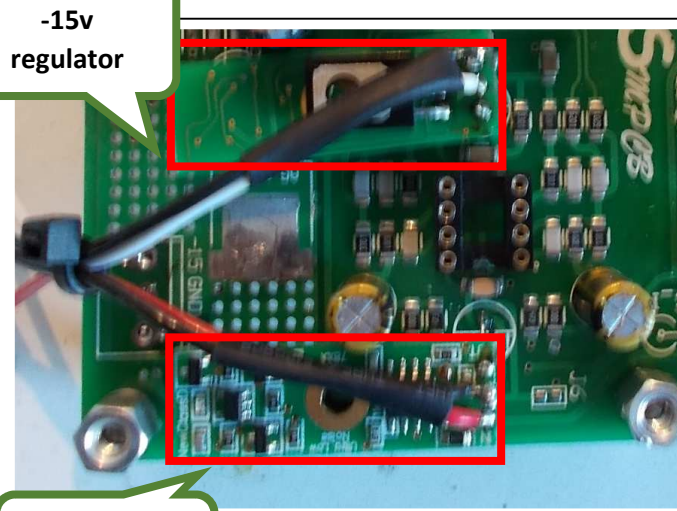


Short leads

Capa under the PCB

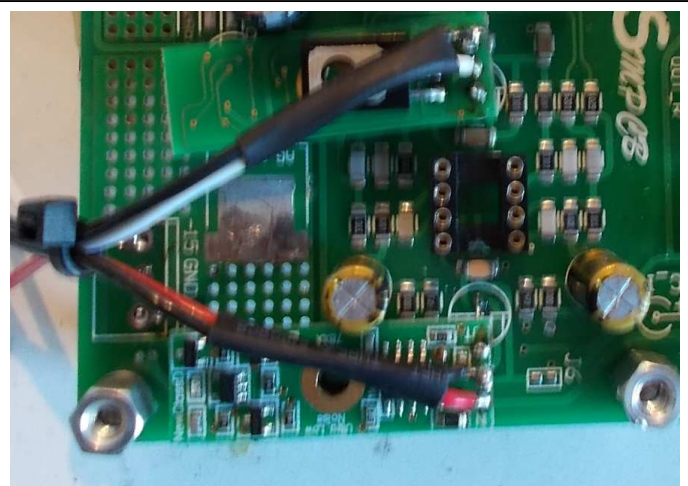


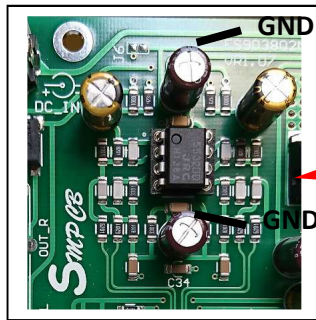
The -15v regulator is not yet installed , you can see the leads of the capa



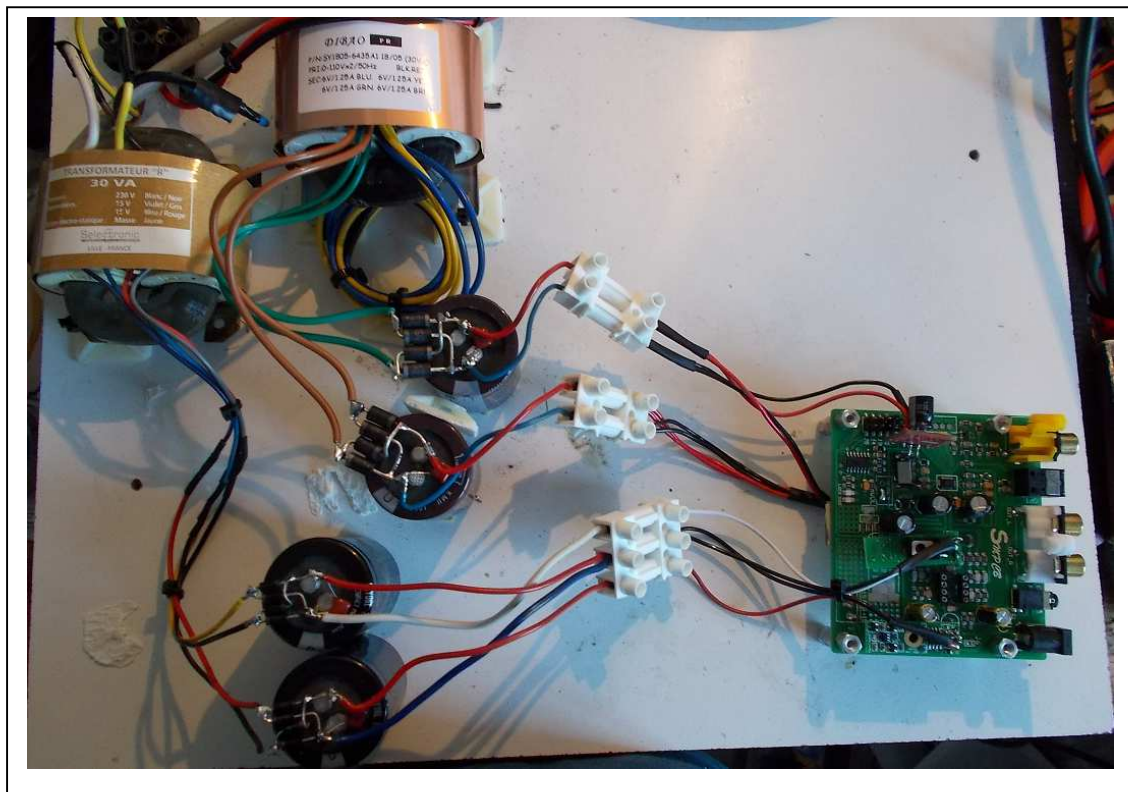
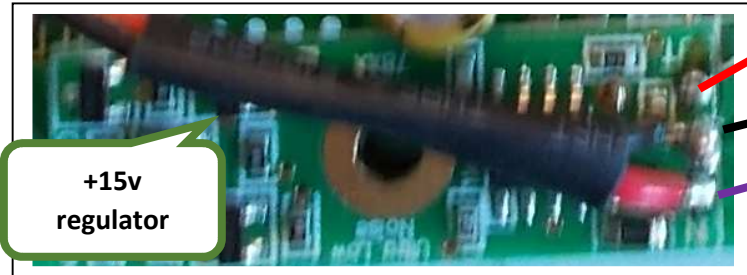
-15v
regulator

+15v
regulator





Don't forget the capa
polarity , when you replace
them under the PCB



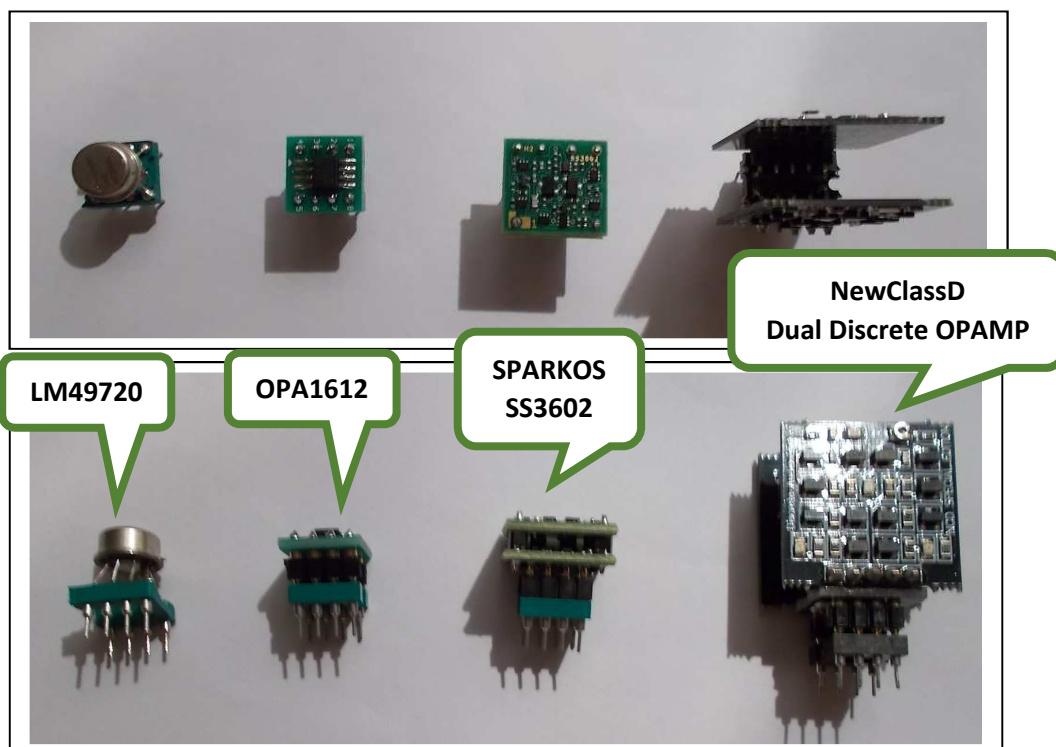
Op AMP

MARANTZ CD 5004 (modified in transport without DAC)

Woo audio wa6 (5U4G /7N7)

Sennheiser HD650

*To compare the Op AMP, I just disconnect the + 15v / -15v and change Op AMP.
The DAC, the Marantz and the Woo audio wa6 are still powered (same volume).*



<http://www.newclassd.com/index.php?page=122>

<https://sparkoslabs.com/discrete-op-amps/>

**Above all, these conclusions are mine, they only commit me.
The listening is made in particular conditions with precise material.**

For me there are two categories:

Discrete OPAMP : SPARKOS and NewClassD

Both are very good but the SPARKOS is above

Others: LM49720 and OPA1612

It's hard to say which is the best between the LM49720 and OPA1612

The **Discrete OPAMP** are more dynamic, the listening is wider, the instruments better separated.

Definitely for this DAC with the original output stage, I keep and advise the SPARKOS SS3602.

There are other ops but they are expensive so I'll stay there

I hope this document has helped some of you.

If you have any questions do not hesitate to contact me.

Serge