Assemblies Manual MP36 mic preamp.

Hello DIY lovers!

Thanks for choosing AVDAUDIO.
We are proud to introduce you to our new microphone preamp model MP36.
This preamp was replicated from the vintage API style 528 (or 536) module.

Much time has been spent to create input and output transformers which possess the same sound and characteristics of the original API transformers. The AVD versions of these transformers are faithful reproductions and we think you will agree when you hear them.

And we are proud we can have did same best sound!

It is our hope that these pres and other DIY projects can help you to do your best recordings at all times!

We wish you good luck and please contact us at info@avdaudio.com if you have any questions.

Let's start this build!
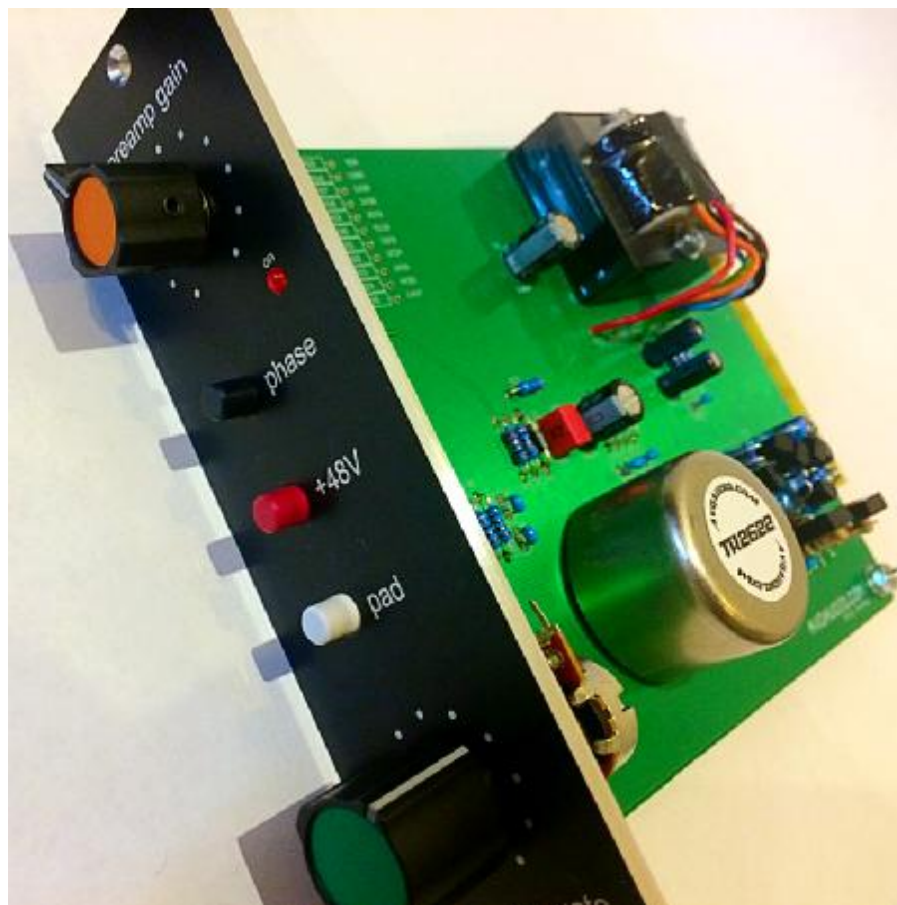
1. Descriptions and material for building

The DIY kit contains:

- PCB
- L-Bracket
- Face plate (with screws, bolts and standoffs)
- INPUT and OUT transformers (TR2622 and TR2623)
- DOA PCB (or full DOA DIY Kit)
- T-Pad 600ohm attenuator
- Two old style knobs (incl. 6 colored inserts) (in oldest versions)

All parts are marked on PCB. This includes two markings – NAME and VALUE..

These parts you can find in BOM here download MP36 BOM>>>

What you will need for build:

DIGITAL MULTIMETER

- soldering station
- basic understanding of components
- DIGITAL MULTIMETER to check VALUE of capacitors and resistors.
- You can also use a table with resistor color codes, which can be found here: resistor color code information>>>>

All capacitors (electrolytic, ceramic, film) are clearly labled, but you may also check these values with a digital MULTIMETER!

Electrolytic capacitor:
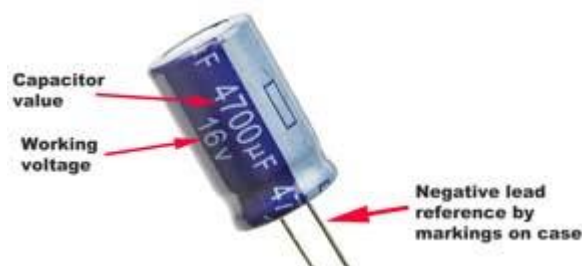
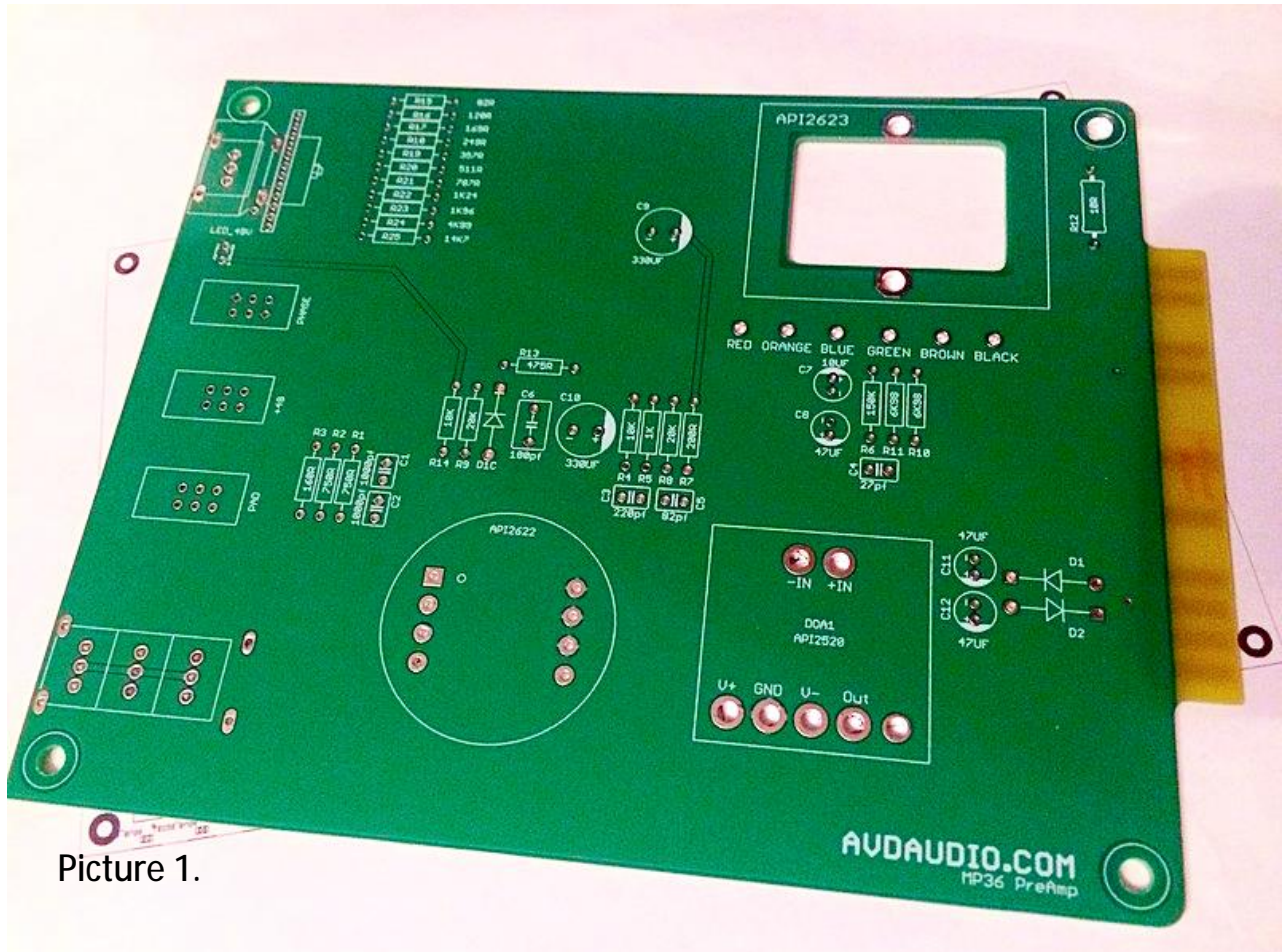Ceramic capacitor: Film capacitor:

2. Soldering resistors and diodes

The first step is to insert and solder all resistors and diodes.
Identify all values and double check before soldering.
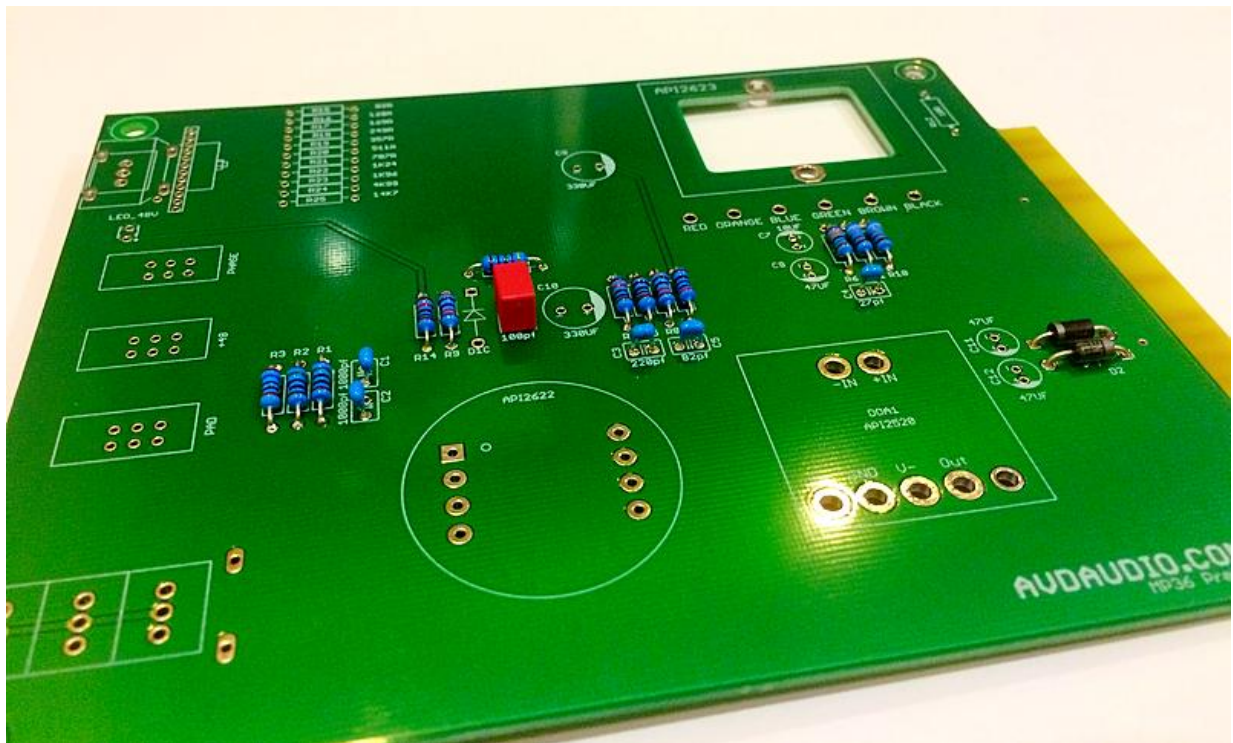

Picture 1.

IMPORTANT!

- Resistors are not polarized elements!

- All diodes are directional! Make sure you insert them in the correct direction!
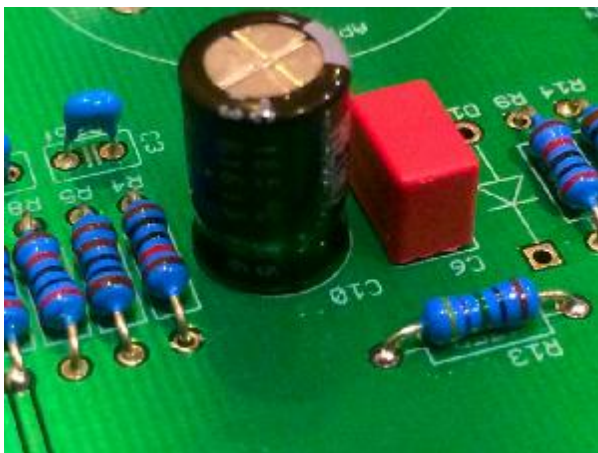
3. Soldering capacitors.

Solder all CERAMIC capacitors first followed by FILM capacitors.
Solder electrolytic capacitors last.

IMPORTANT!
Electrolytic capacitors are polarized. Check that they are inserted correctly before soldering!
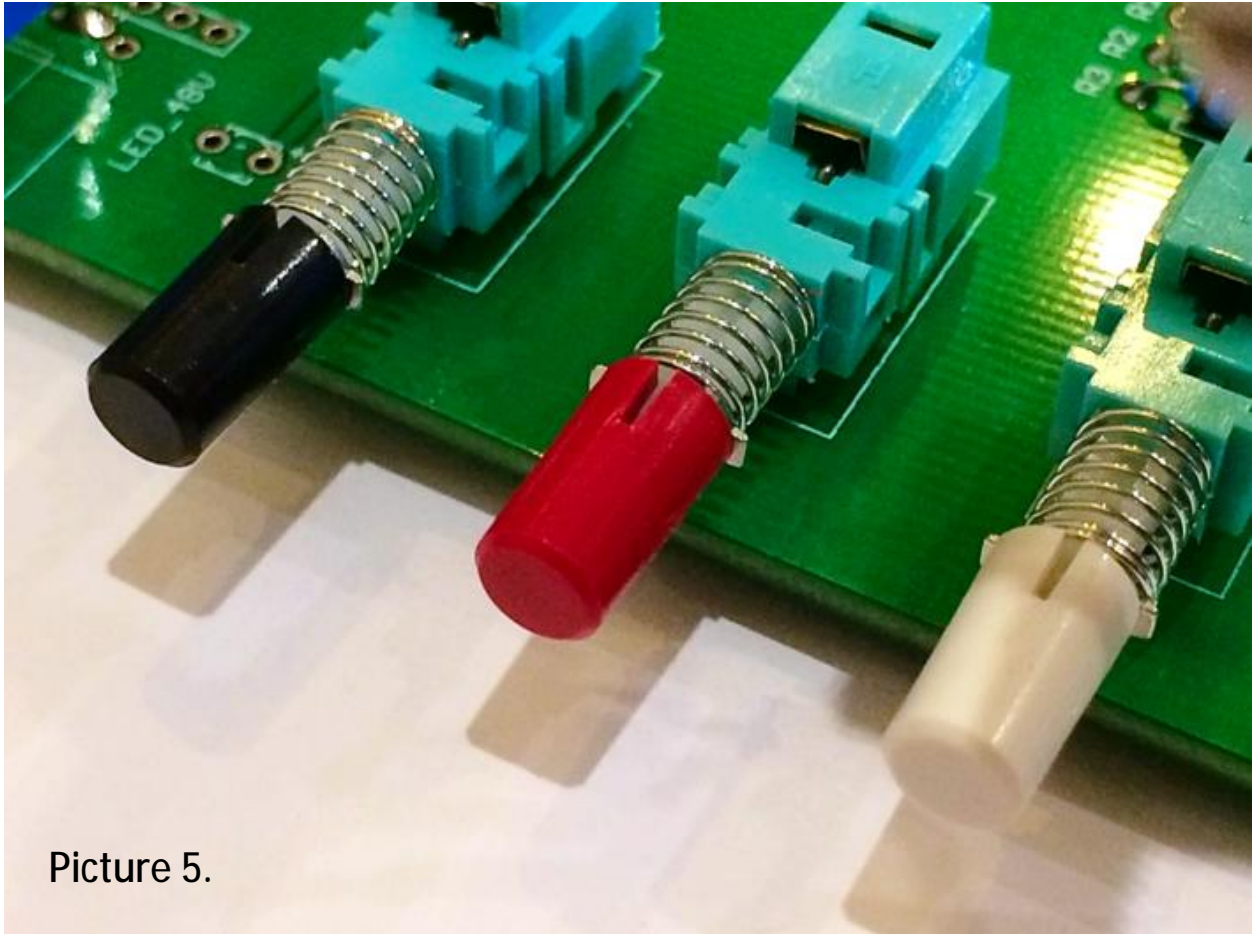

Picture 2.

Picture 3.

Picture 4.

4. Soldering pushbutton switches and gain resistor

Insert all pushbutton switches into PCB and solder them.
Then put on colored cups on each of them. Use colors in whichever order you prefer!

Picture 5.

Next step: Soldering gain (variable) resistor.
Install standoffs on L-bracket as shown in the picture. This is done to help install the main PCB into place. Gain resistor must already be installed on the PCB at this point. After installing the main PCB, tighten all screws with spring washers. Gain resistor must be installed in the hole on the L-bracket.
We recommend soldering only the last two legs of Gain resistor. For best results we recommend to install the face plate with T-Pad resistor! See picture 9,10 and 11. You can see this step in the picture 8 bellow.
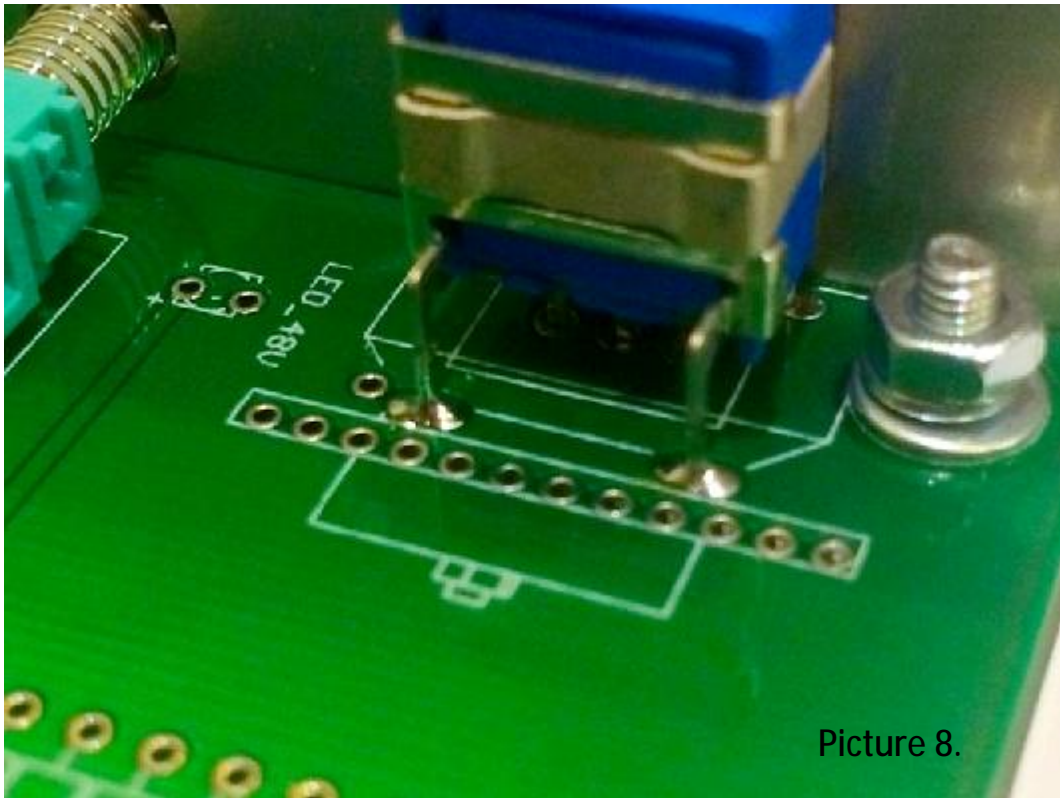Then carefully remove PCB and solder all other pins of the Gain resistor.
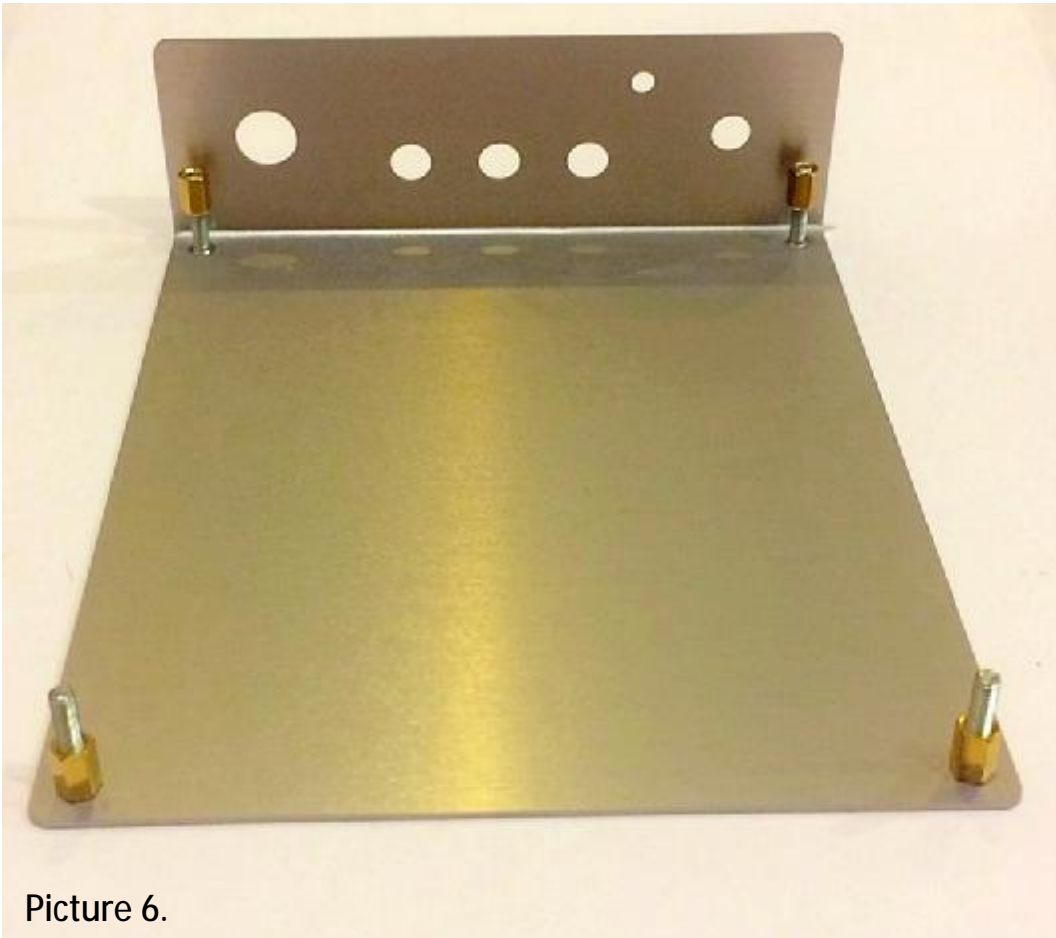
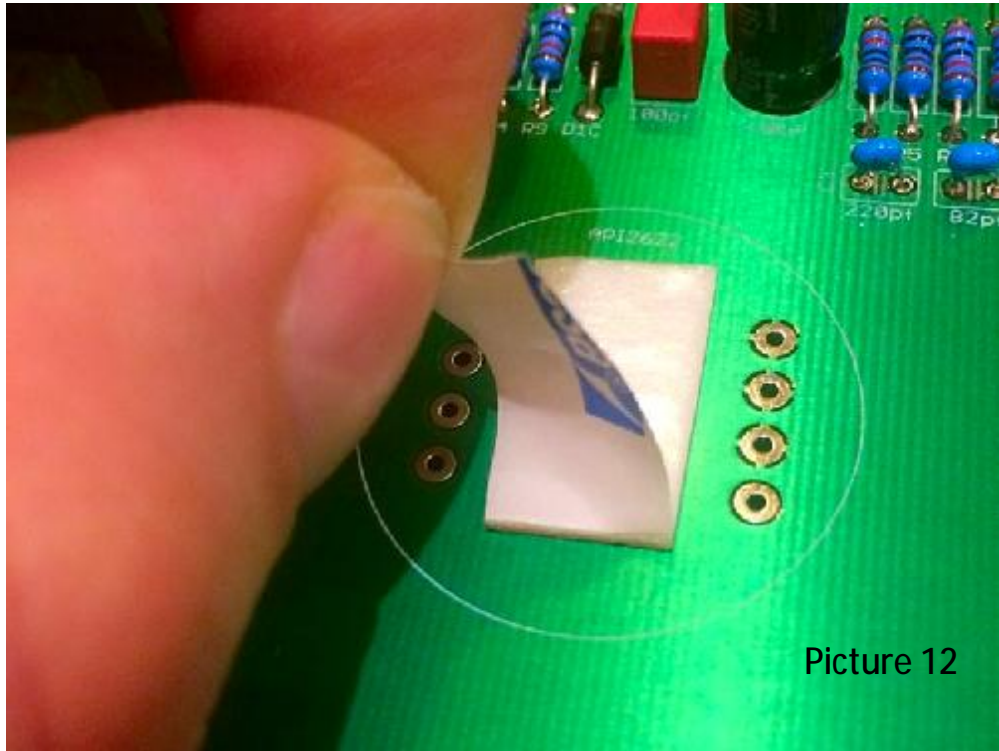Picture 6.
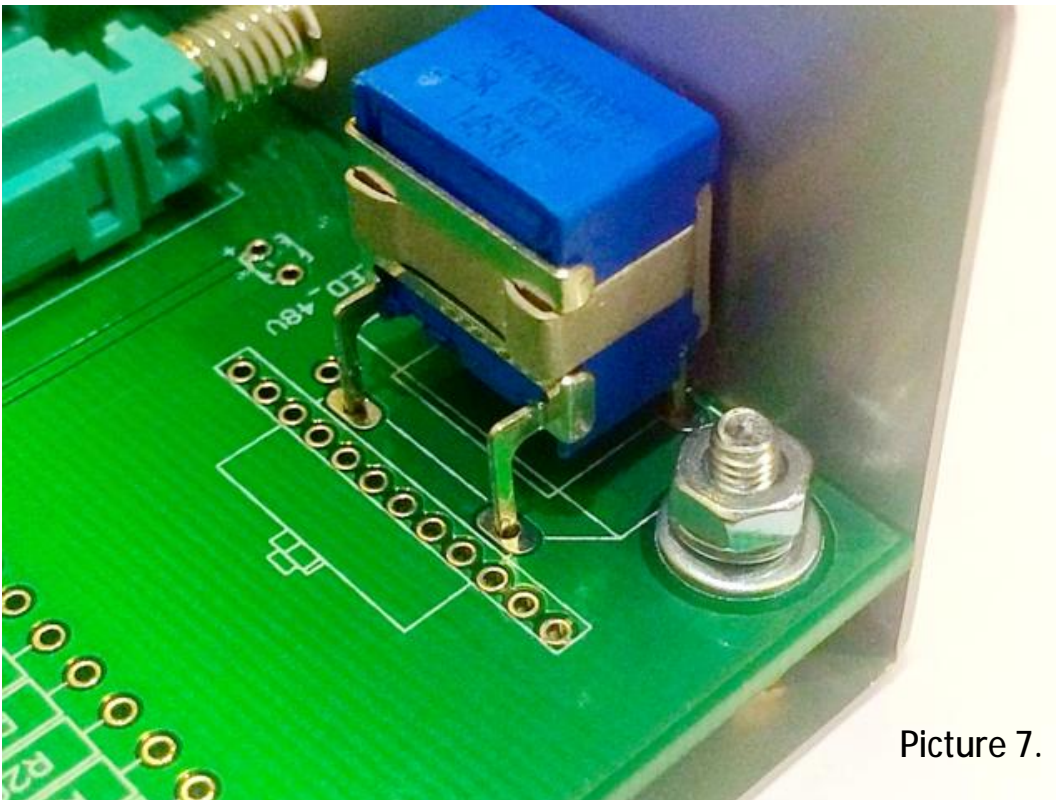
Picture 7.

Picture 8.
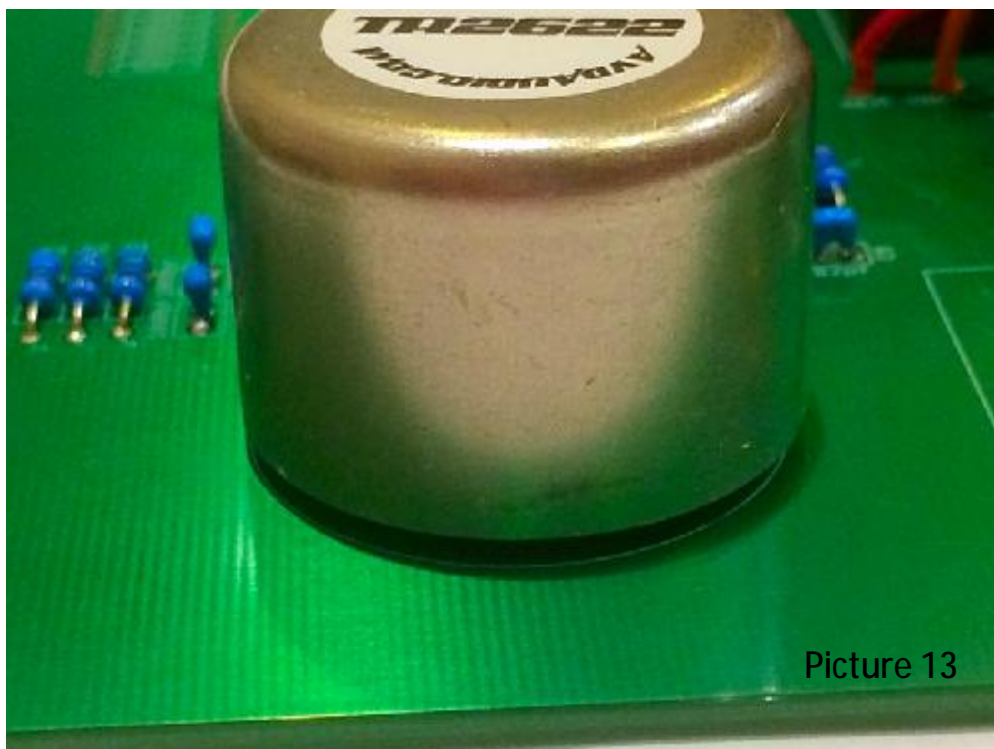

Picture 9

Picture 10

Picture 11

5. Soldering Input and Output transformer.

For input transformer we recommend using double-sided tape. Input transformer should NOT be directly touching the PCB. See pictures 12 and 13 bellow.
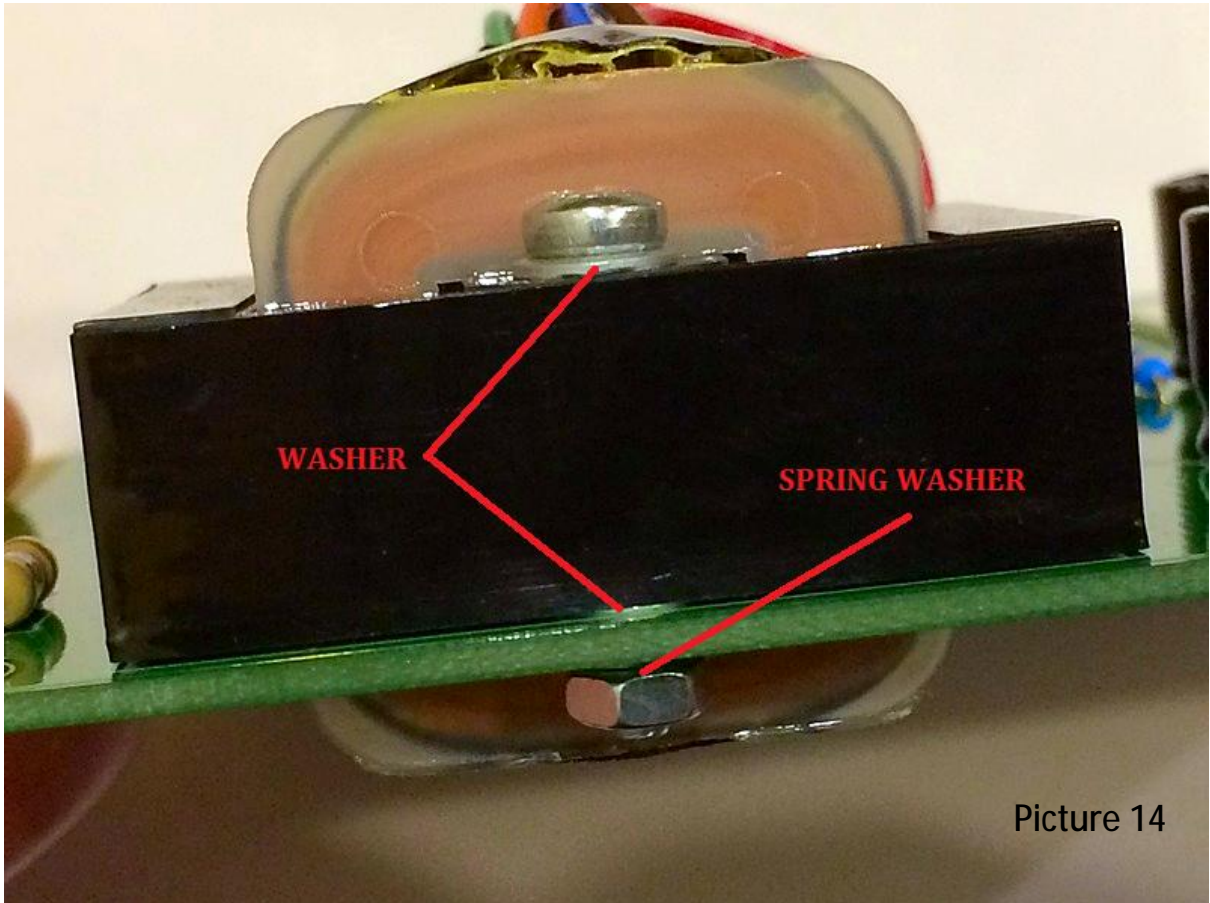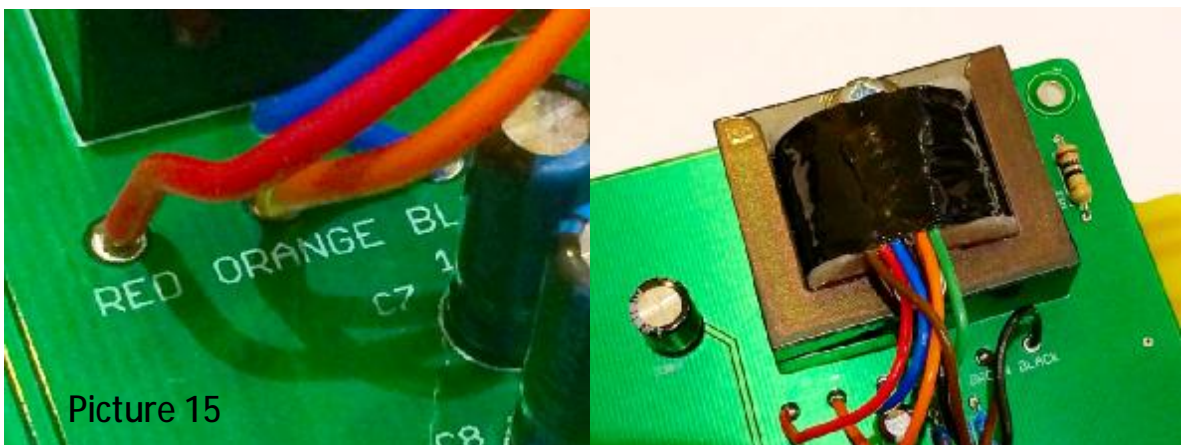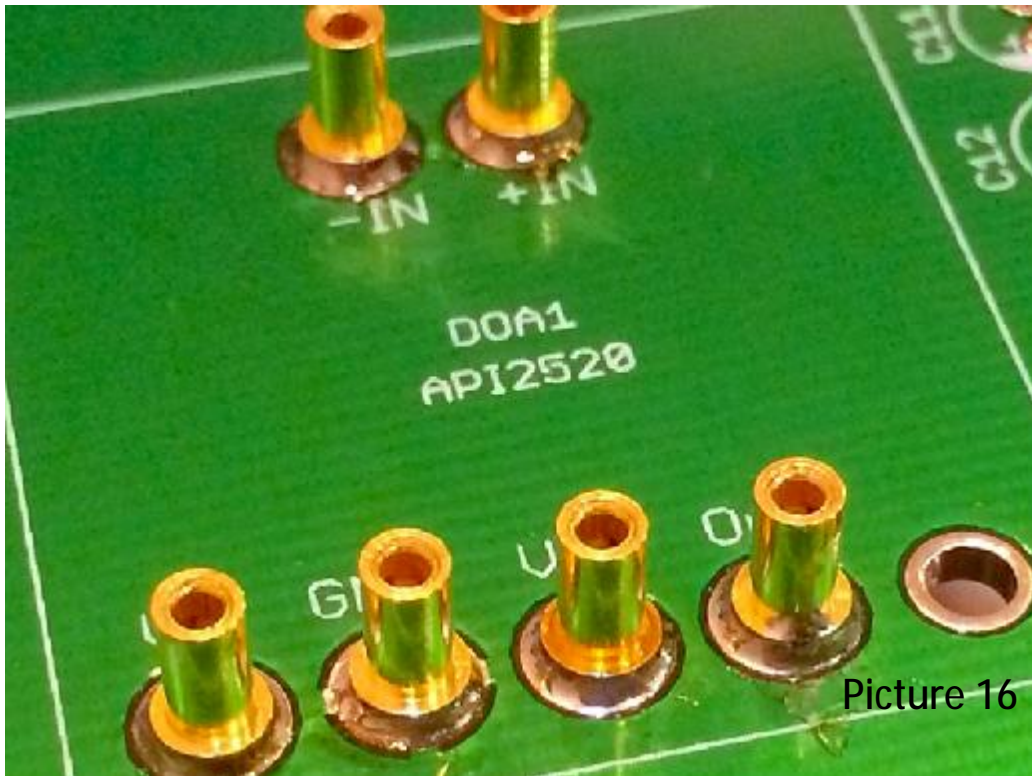

Picture 12

Picture 13

For installing the Output transformer, we recommend using 3 types of washers. Two washers must be installed on the top side out transformer and also between the transformer and the PCB. The third spring washer is installed on the bottom side of PCB bellow nut. See picture 14.
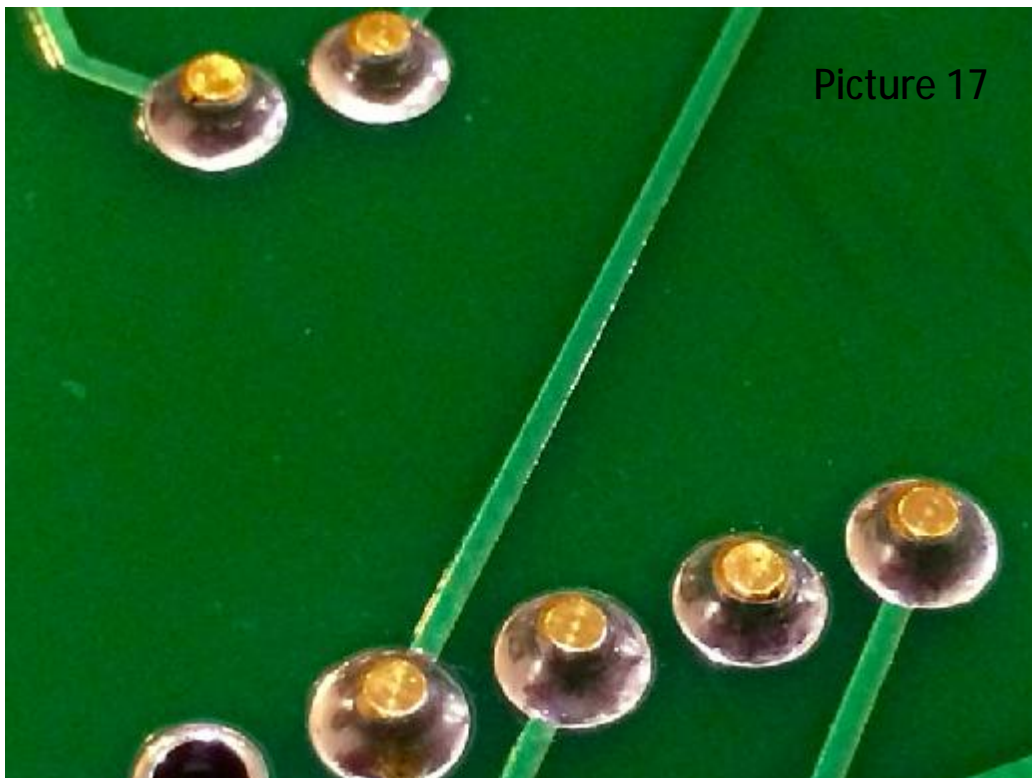

WASHER

SPRING WASHER

Picture 14

After this we can solder all the transformer wires.
Each connection is labeled by color code! See picture 15 bellow.

Picture 15
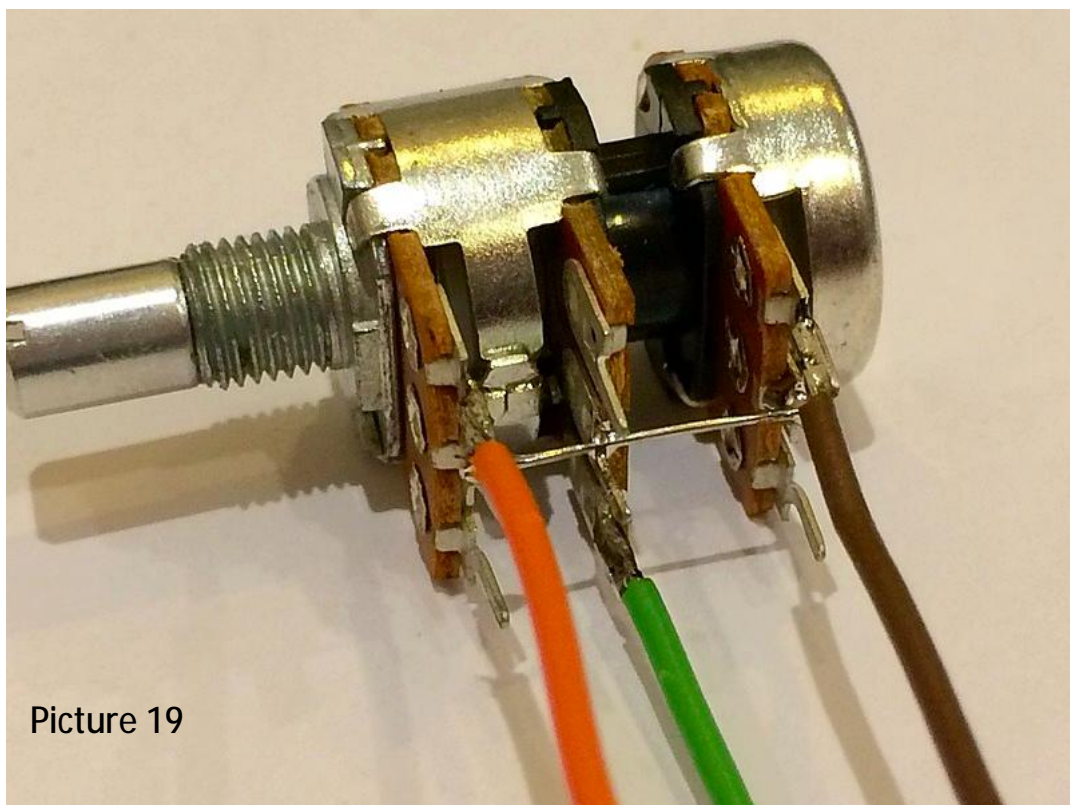
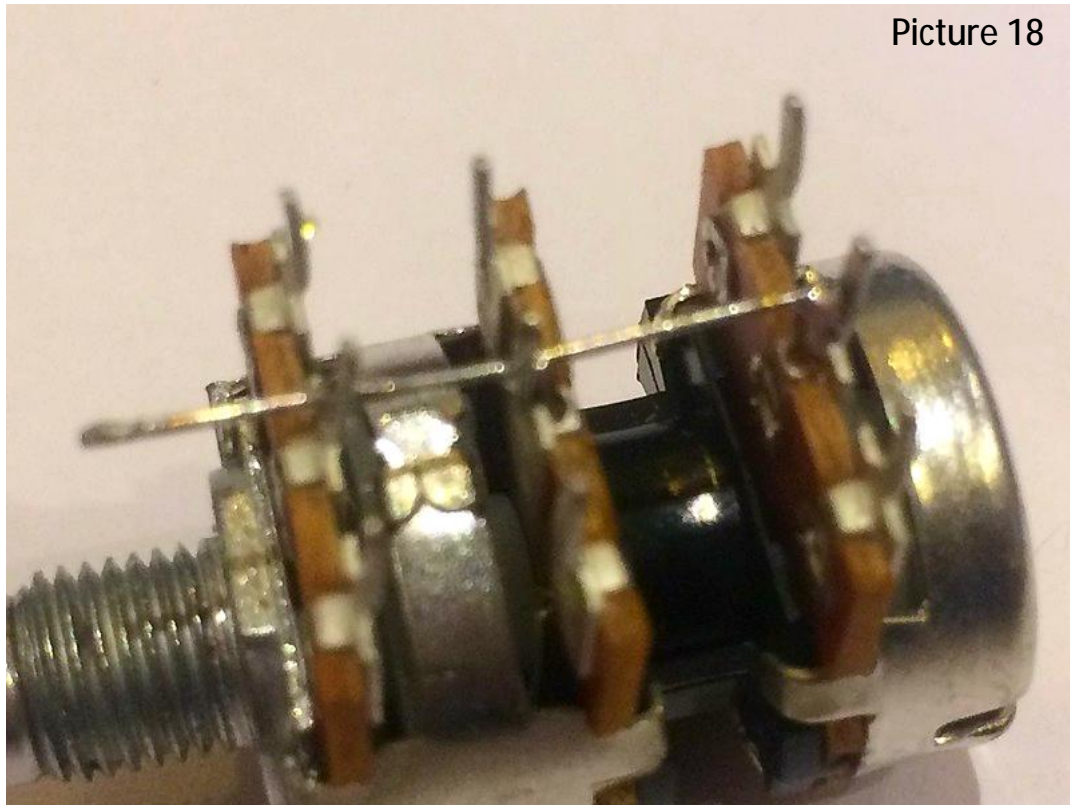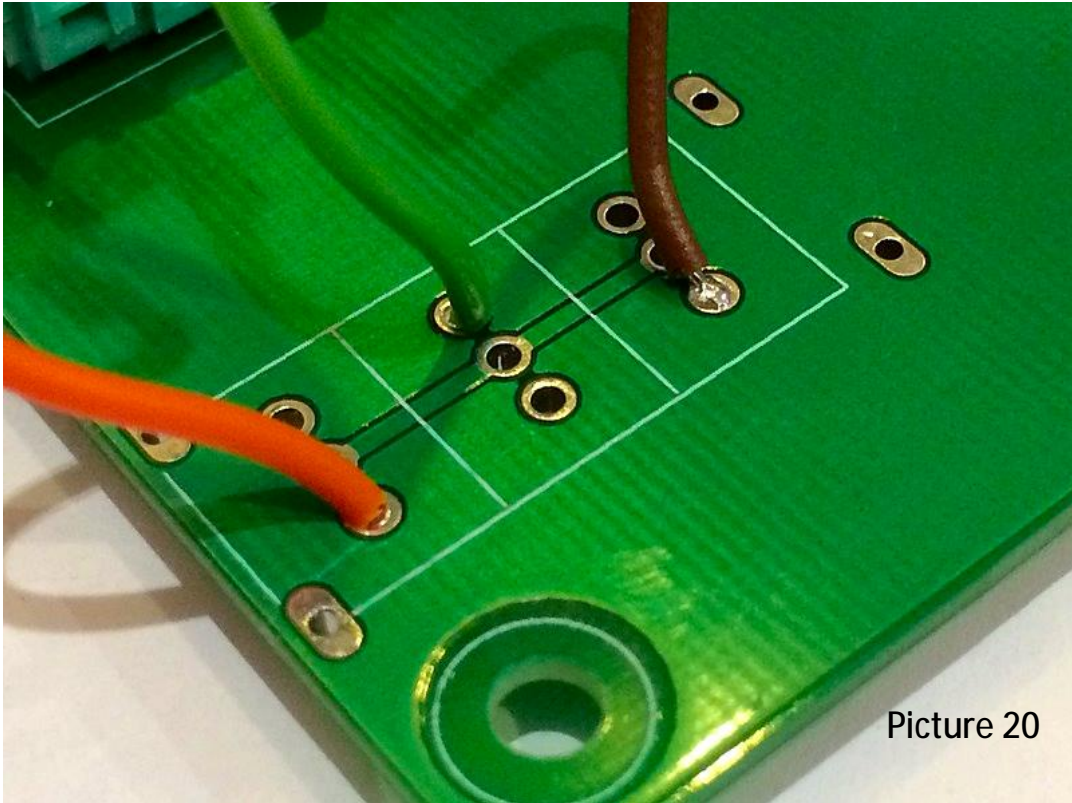6. Soldering DOA PCB sockets.

Picture 16

Picture 17

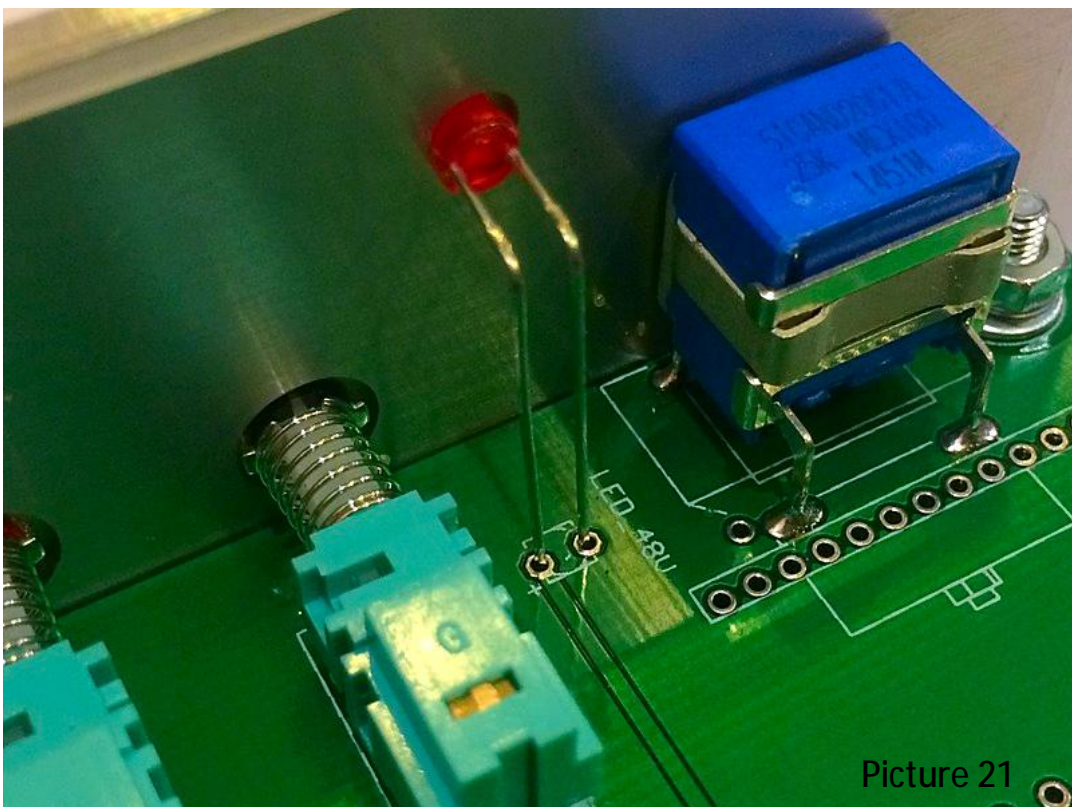AVDAUDIO.COM

7. Soldering T-Pad attenuator.

Connect by soldering all center legs (picture 18)..
Connect other legs as show in the picture 19 by wires. And then connect these
wires with PCB (picture 20).

Picture 18

Picture 19

Picture 20

Picture 21

And again attach the PCB to L-bracket.

Next install the face plate. Attach T-Pad and then install knobs with colored inserts of your choice.

The preamp is now complete!

For comments or recommendations send mail please to: *info@avdaudio.com*