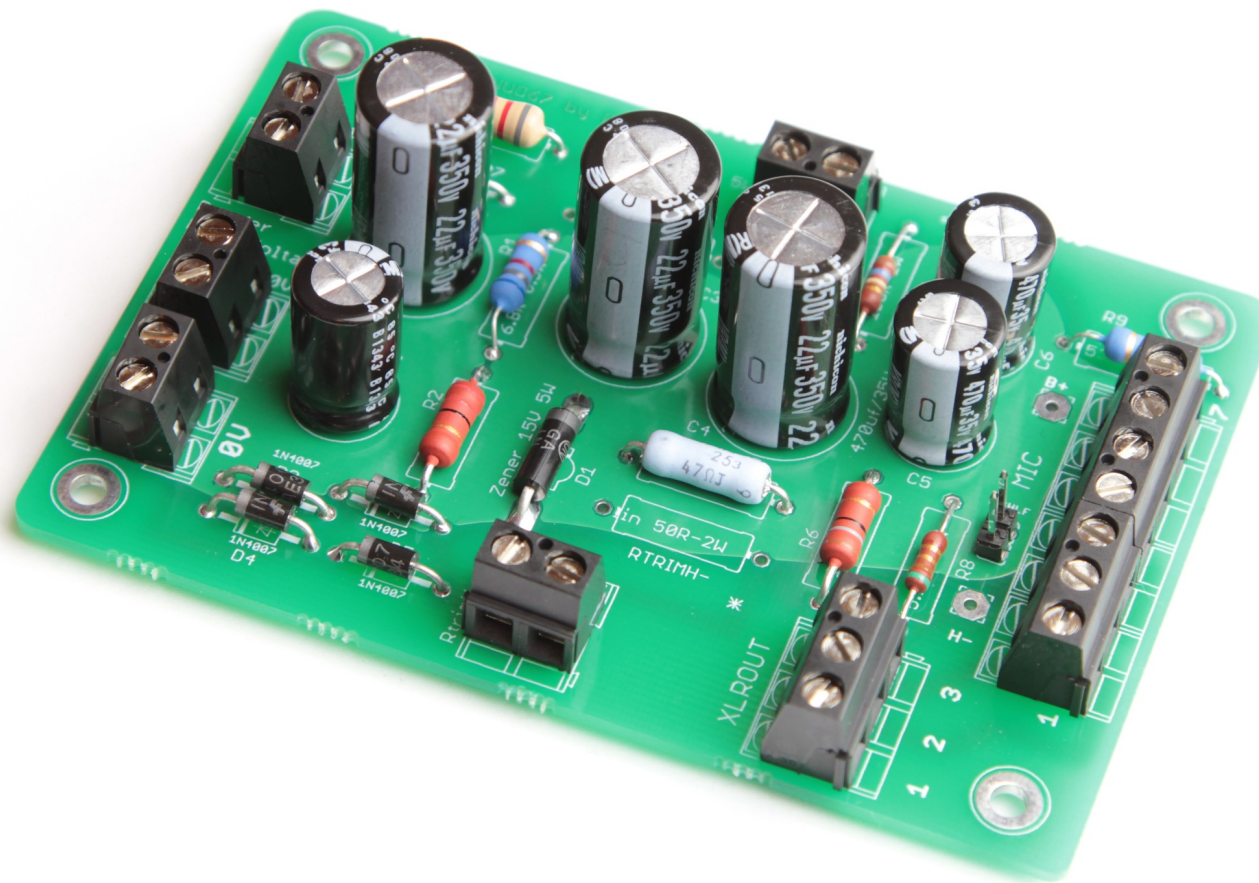
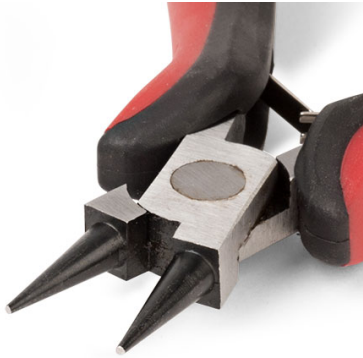
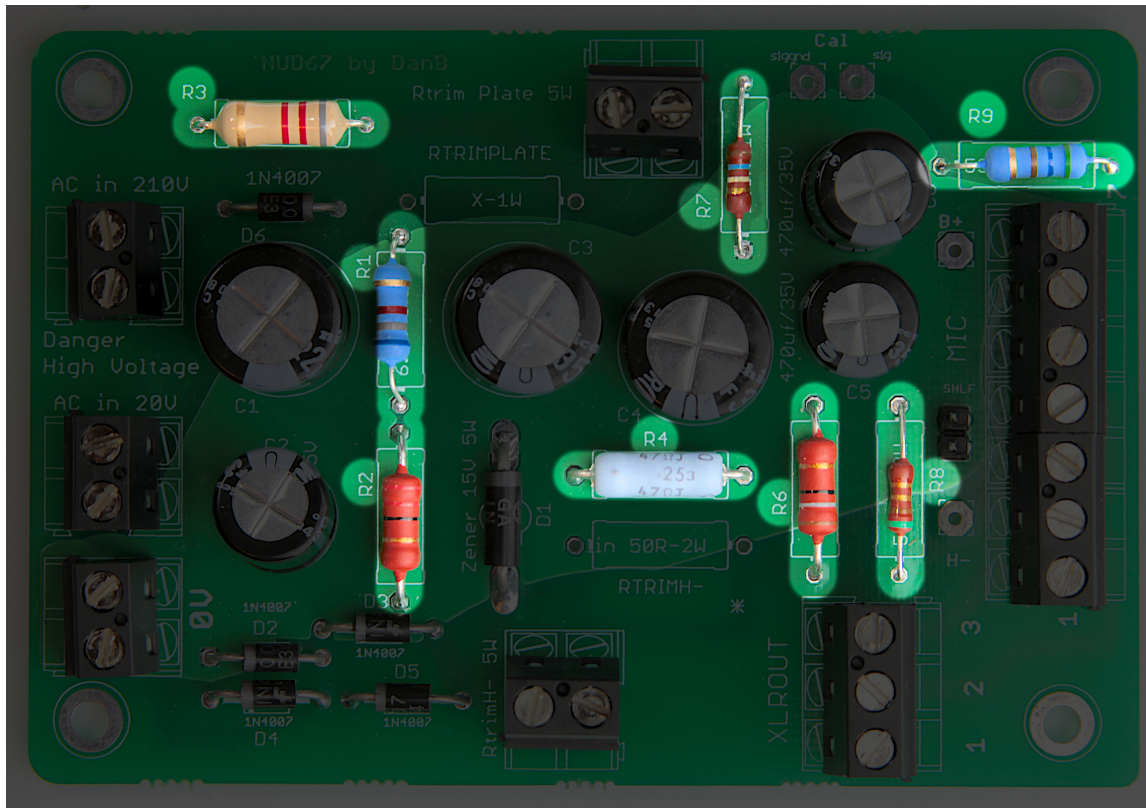


# D-U67 Tube Microphone



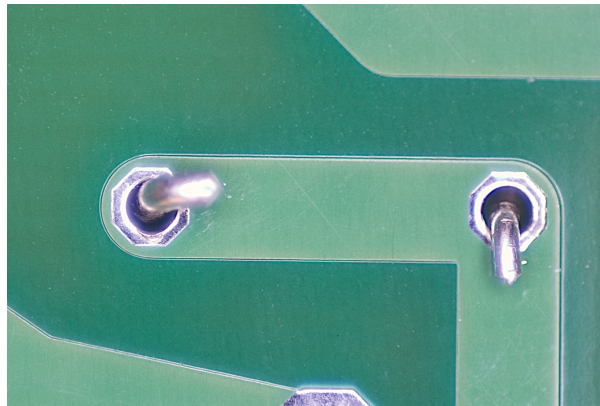
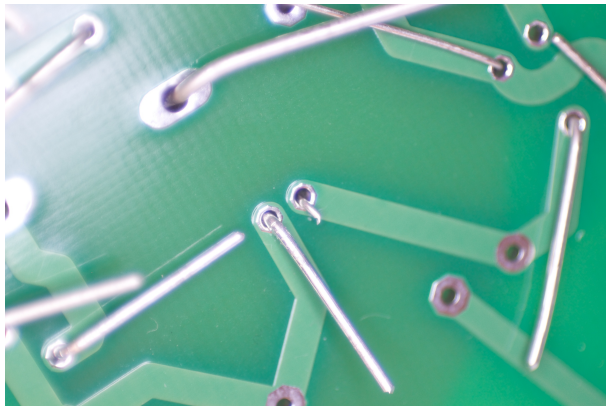


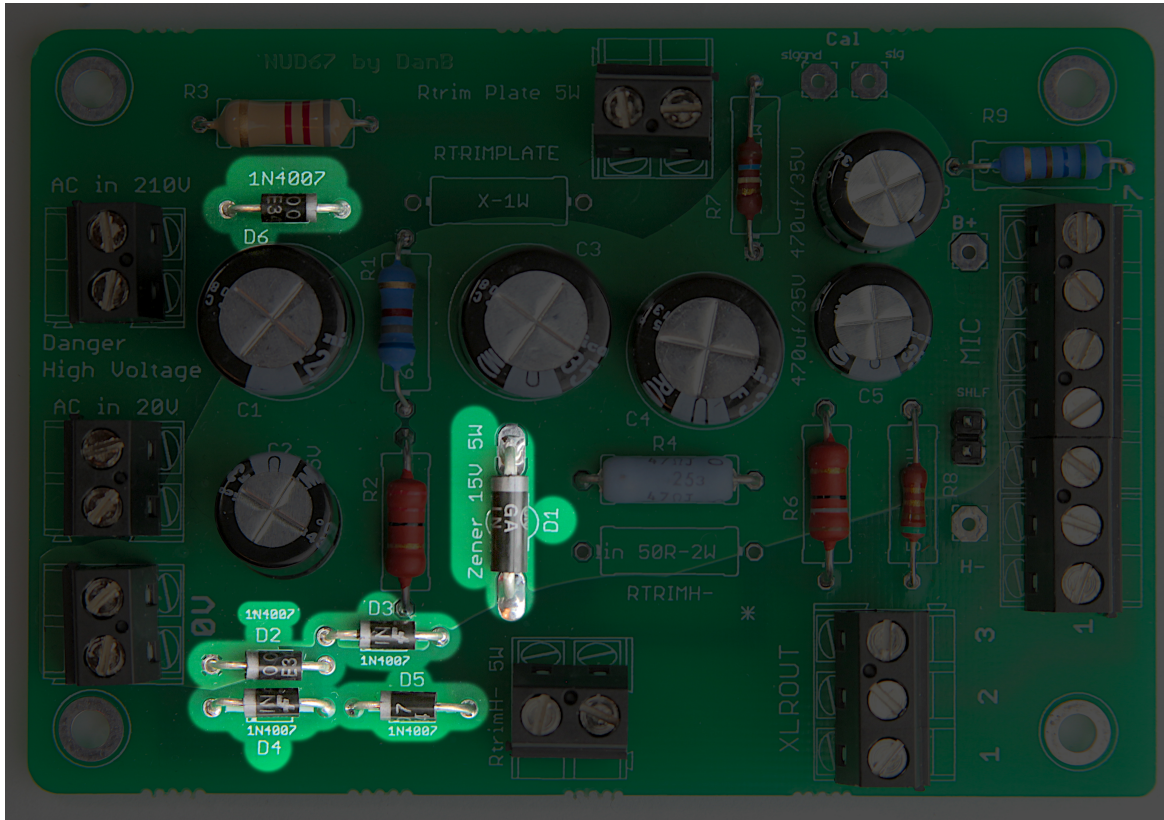


Let's start with the easiest part, the power supply.

Start By Installing the resistors. I like to stuff all the resistors, bending the leads in on the bottom such that they are not overlapping other traces to avoid any bridging.

Clip all of the leads of the installed parts, then solder.

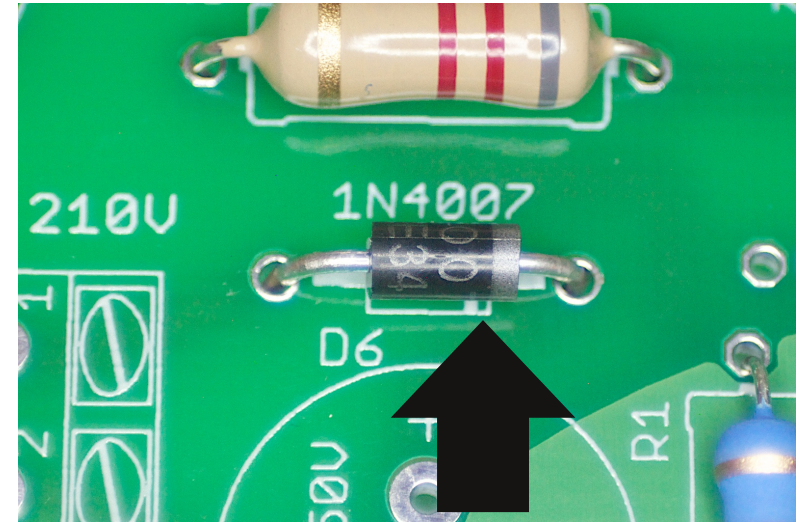


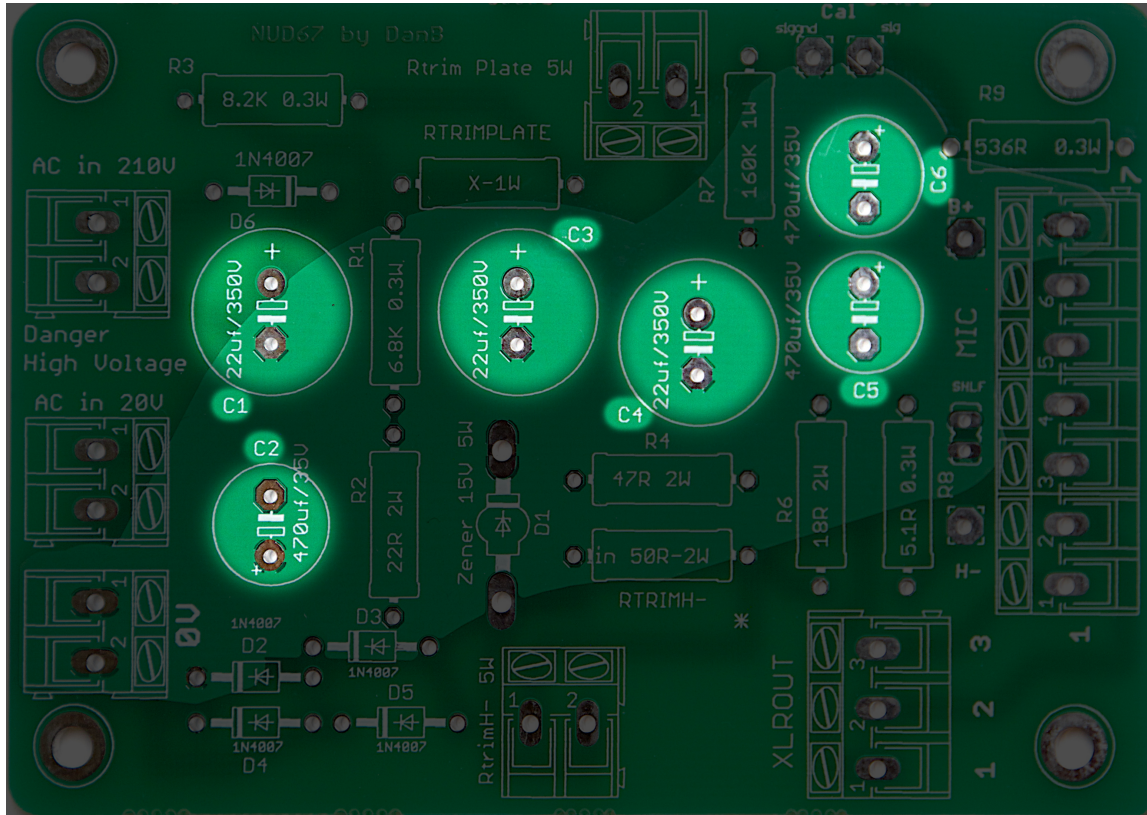


Now install the Diodes

Pay special attention to the polarity of the diodes.

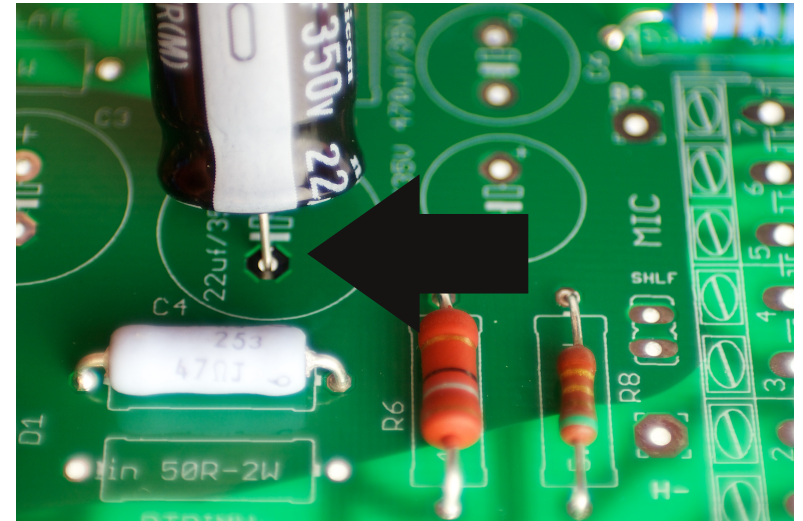
Align the mark on the diode with the line on the PCB as shown

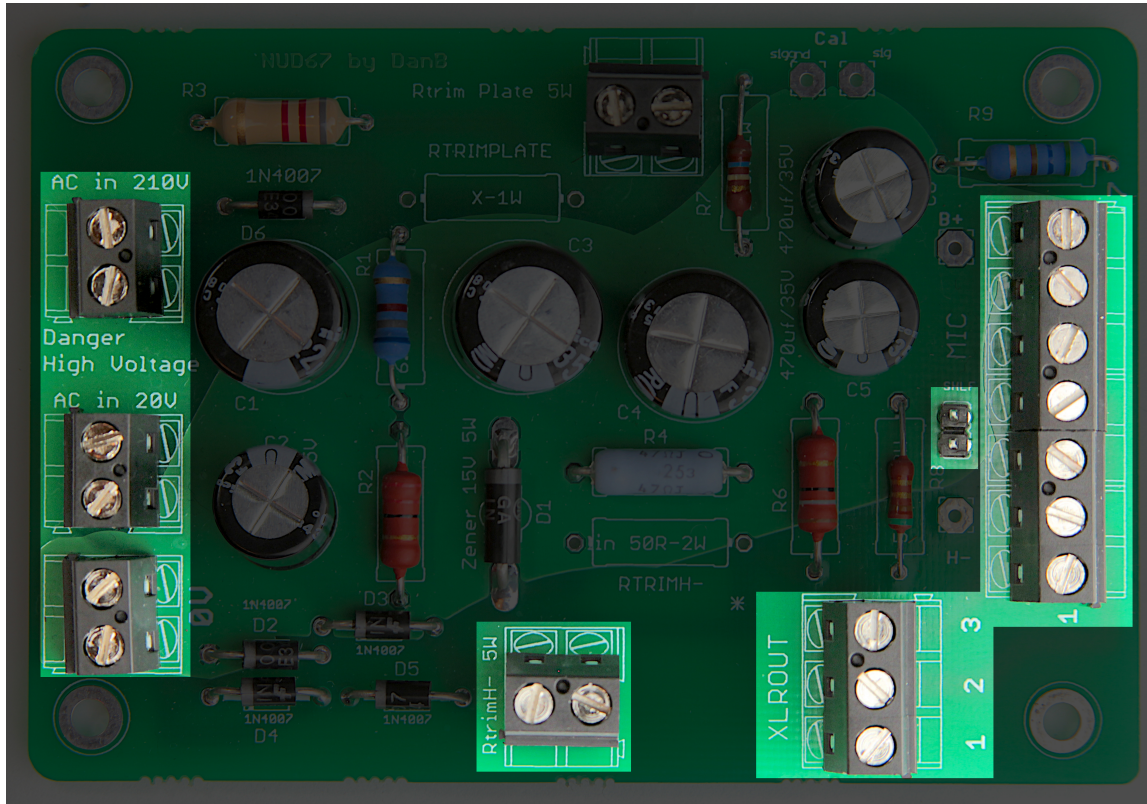




Install the Electrolytic Capacitors

Again, pay special attention to the polarity. Match the white stripe on the capacitor body with the white band on the PCB.

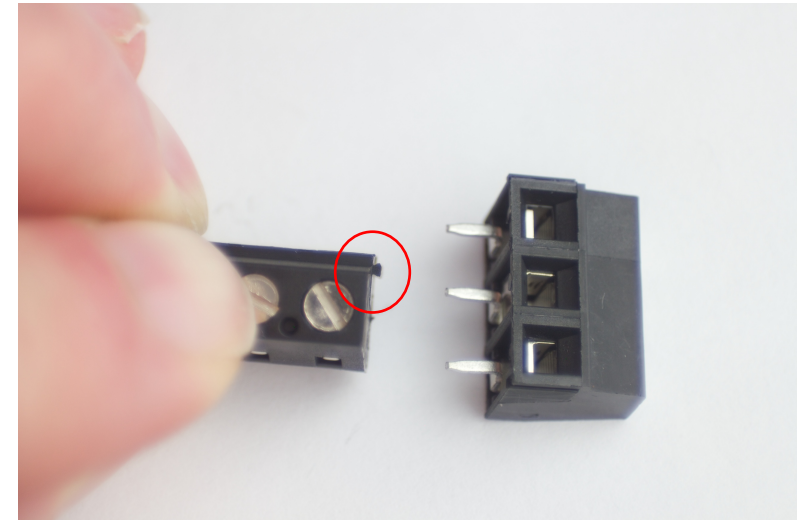




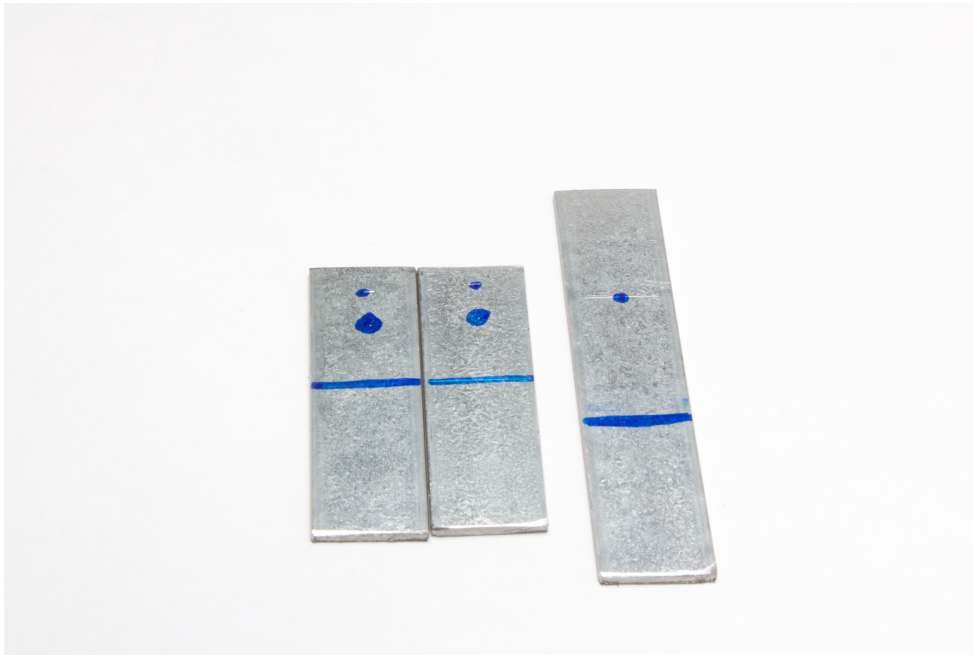
Install the Header and wire terminals

Interlock the 4 pin terminal to the 3 pin terminal. Notice the dovetail locking feature.

Solder one pin of each connector. Inspect and adjust as necessary. Once square and flush, continue soldering adjacent pins.







We need to make some barkets to mount the Torroid and the Pots in the PSU chassis.

I'm using 1" wide by 3/16" thick galvanized steel.

Cut two pieces at 3" long for the pots.

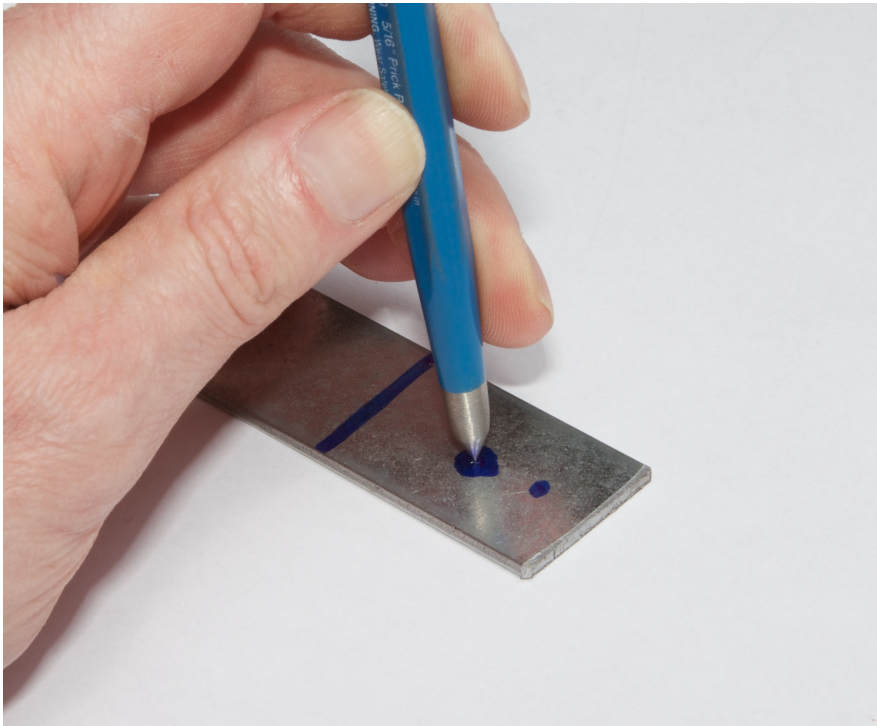
Cut one at 5" long for the transformer.

Mark the locations for the holes and the bend line.

Use a center punch to make an indentation in the steel.

Drill the holes

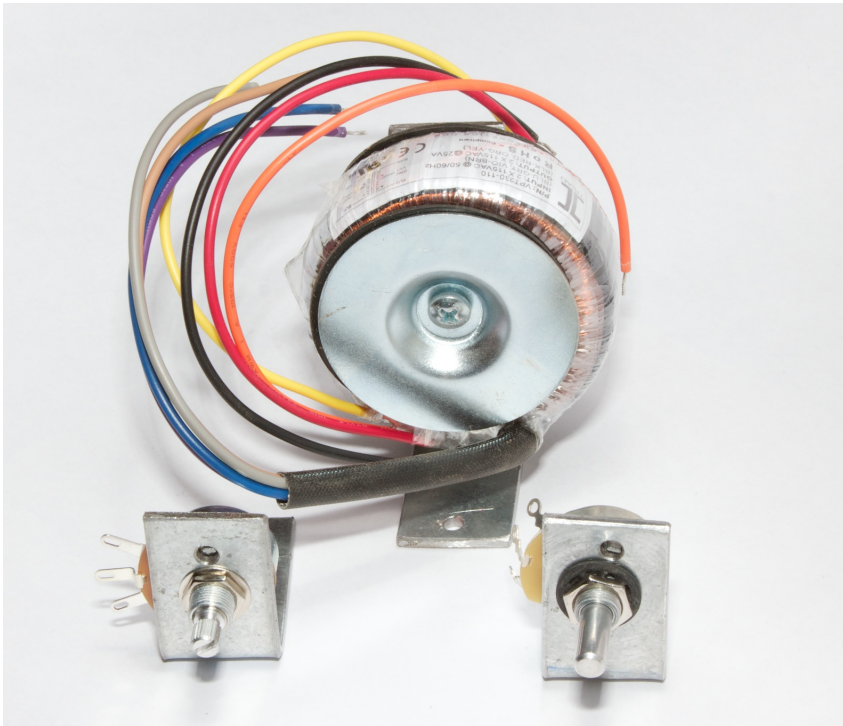
Use a bench vise and a hammer to make the bends.







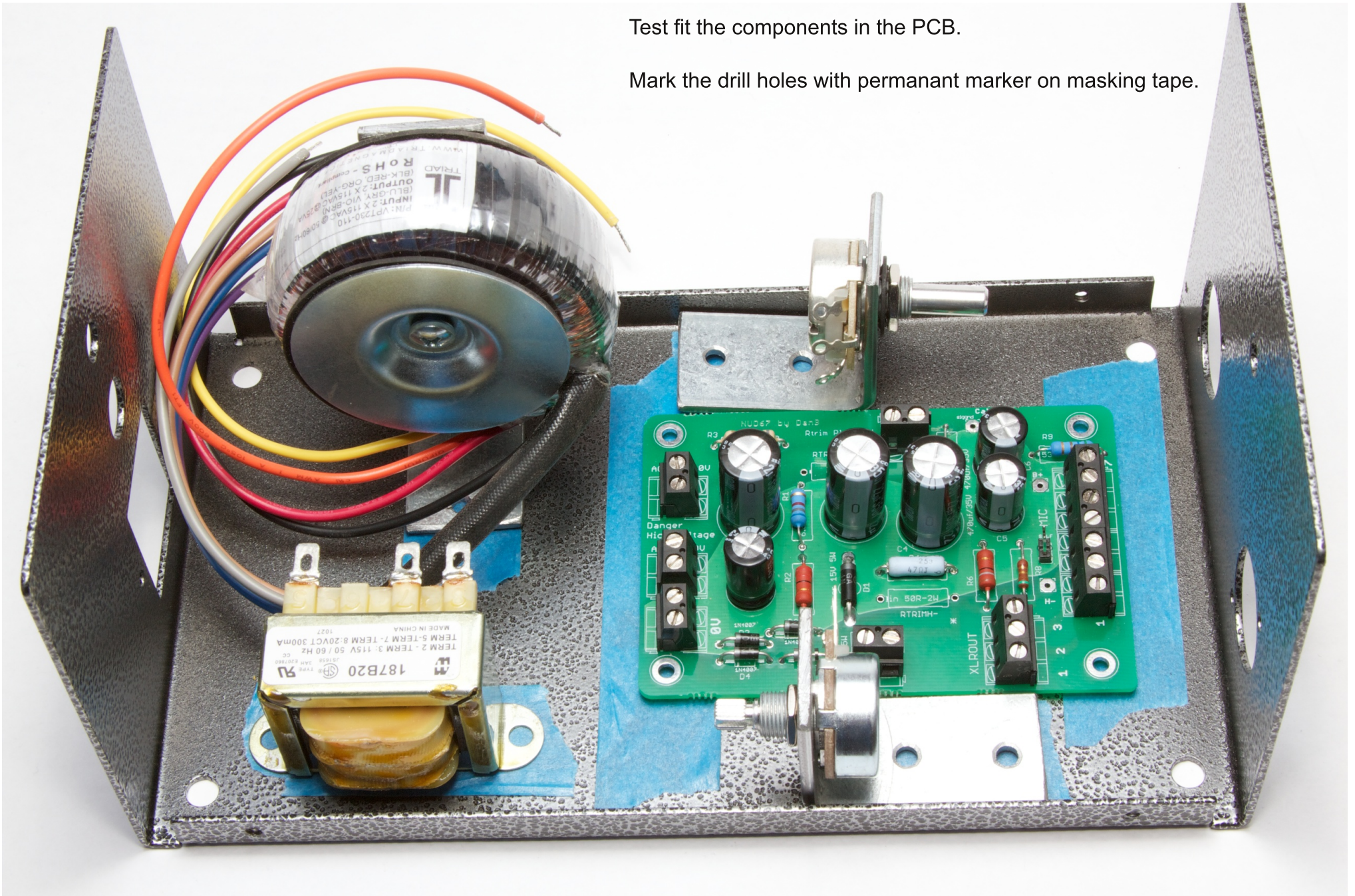
The meatal working should look something llike this



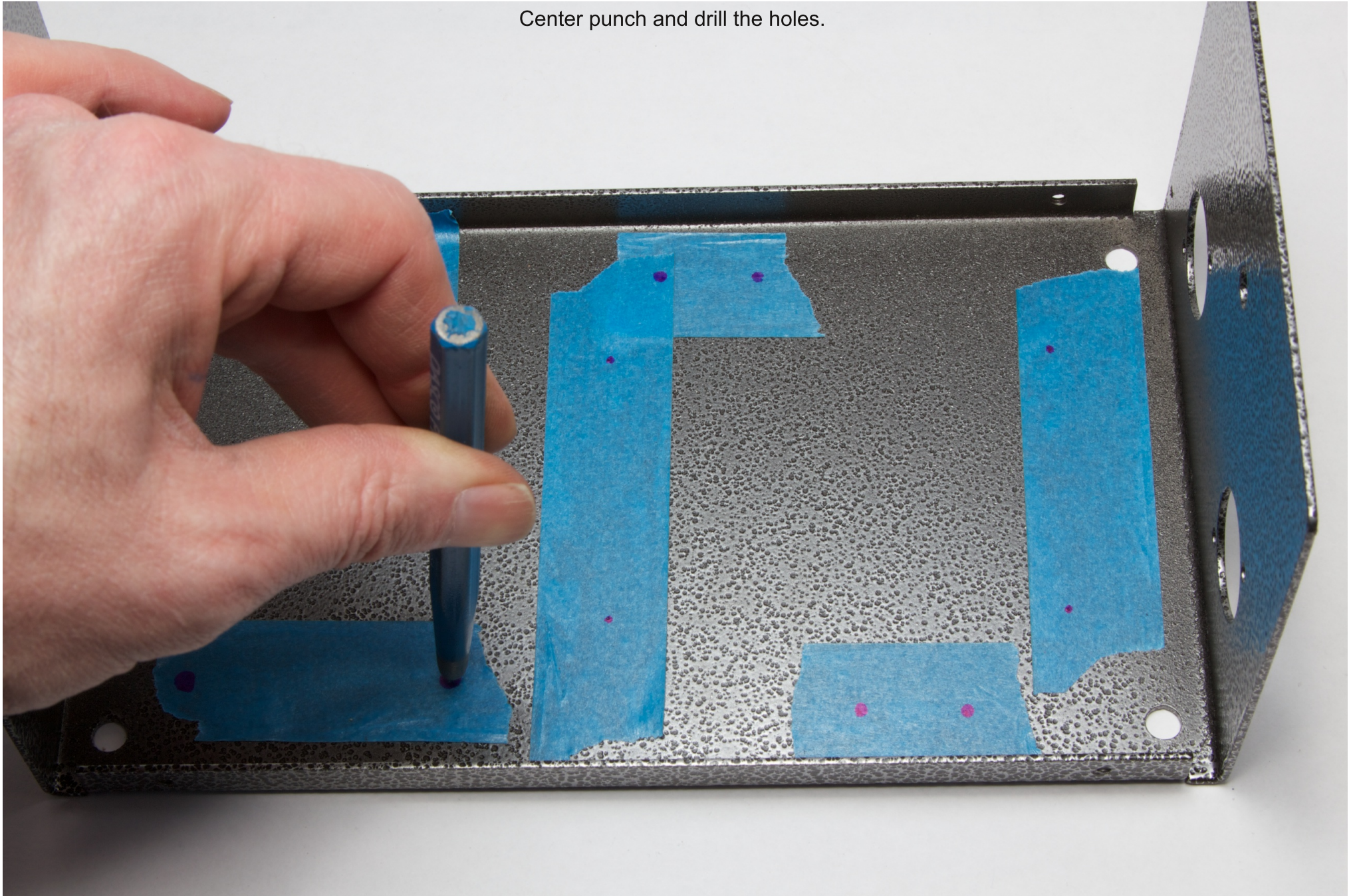
Mount the components to the metalwork

Test fit the components in the PCB.

Mark the drill holes with permanent marker on masking tape.



Center punch and drill the holes.



# For 120V Mains

Wire the PSU  
as shown

25K Ohm

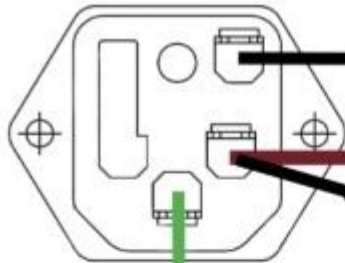


56K  
1 Watt

SOLDER  
RED AND ORANGE



LINE



GND

NEUTRAL



AC in 210V

RTRIM PLATE

AC in 20V

PSU PCB

0V

RTRIM H-

100 Ohm

