



Kit1 300B

2014 Edition

Single Ended Triode 8 Watt

Construction Manual & User Guide
Volume One

ANKITS

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Getting started!

When you first receive your kit plan we recommend having a session checking over all the parts bag and organizing all your inventory.

Each Kit is made up of the chassis, transformers, faceplates and various kit bags. Each kit bag will have a parts list inside the bag. Go through the bags to ensure all the parts are supplied.

If there is a problem please email us at: support@ankaudiokits.com to report any missing parts. We will then send them out to you ASAP.

We recommend having a read of the instructions or at least an overview of the kit to get a good feel of what is expected. It's probably a good idea to break up your build sessions into manageable chunks. Try not to do too much in one sitting as it's easy to get tired. Instead of rushing on to the next session, take some extra time to check over the work just performed.

Some of the skills you need to build the kit:

- Operating a soldering iron
- Using a Volt/Ohm meter to measure voltages and resistance.
- Tinning wires & surfaces– stripping the insulation and then applying solder to the exposed wire or surface.

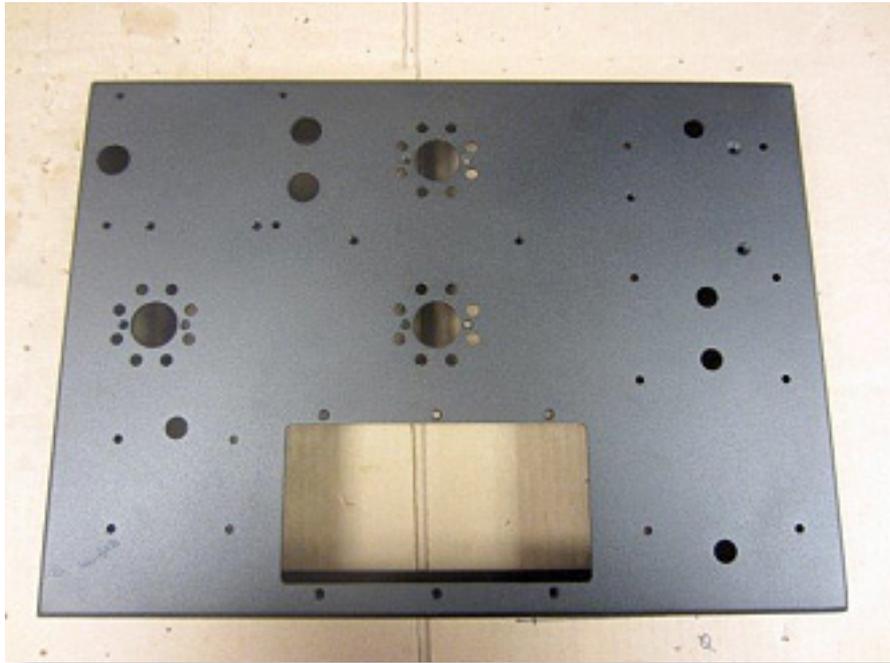
Mechanical assembly: using M3, M4 & M5 metric hardware

Every Kit starts with a mechanical component – this is where you will prepare the chassis with the mechanical mounting of Chassis fittings and transformers etc.etc... Some kits we will tell you to do things in particular order that we recommend.

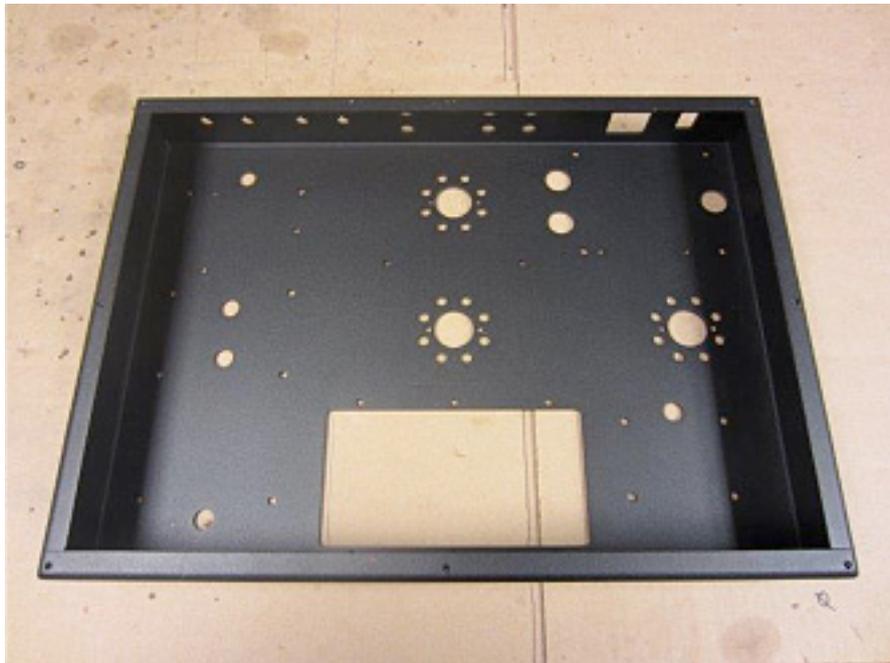
Don't be in too big of a hurry to finish the kit, savor the build experience. Spend a little extra time before jumping into action and think about the best way to implement a wire (for example). Stay calm and have some fun!

We are here to support you, so email us at: support@ankaudiokits.com if you need any assistance, guidance or general help!

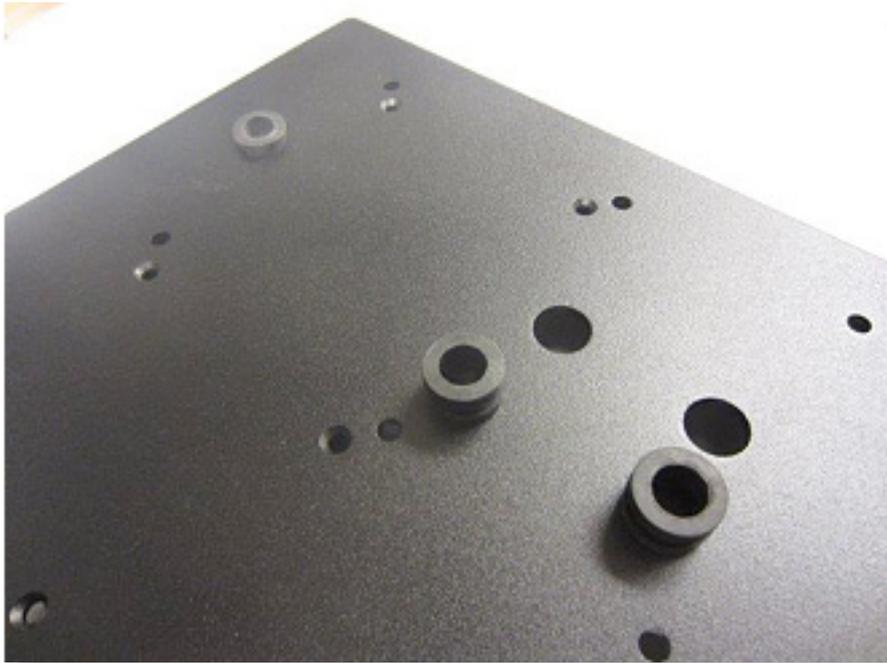
Brian Smith



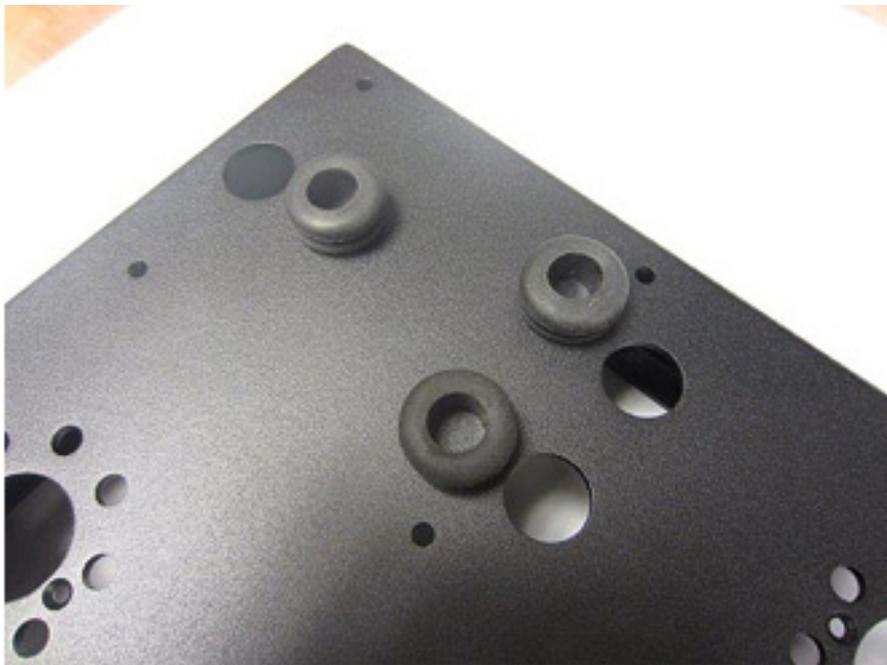
Here is the latest version of the Kit1 300B Single Ended Chassis – It is made of 3mm aluminum which has been powder coated black – the chassis is ultra sturdy and aluminum is an ideal material for audio – If you ever need to drill the chassis – its easy to drill through!



Here you can see the underside of the chassis – and this is the position you will be working on the kit most of the time!

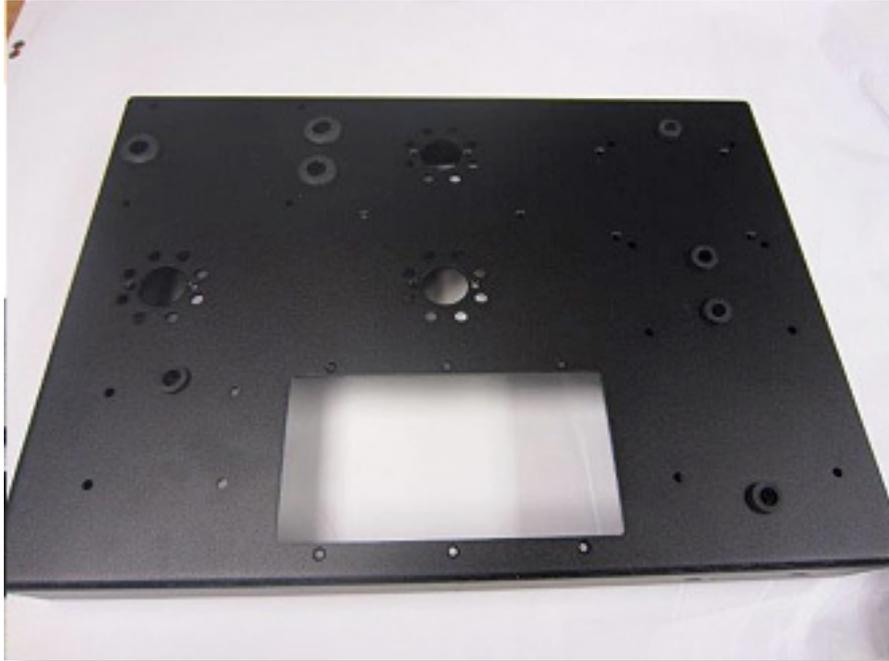


Grommet Installation : Install the 5 smaller grommets in the 5 holes that are ½" wide.

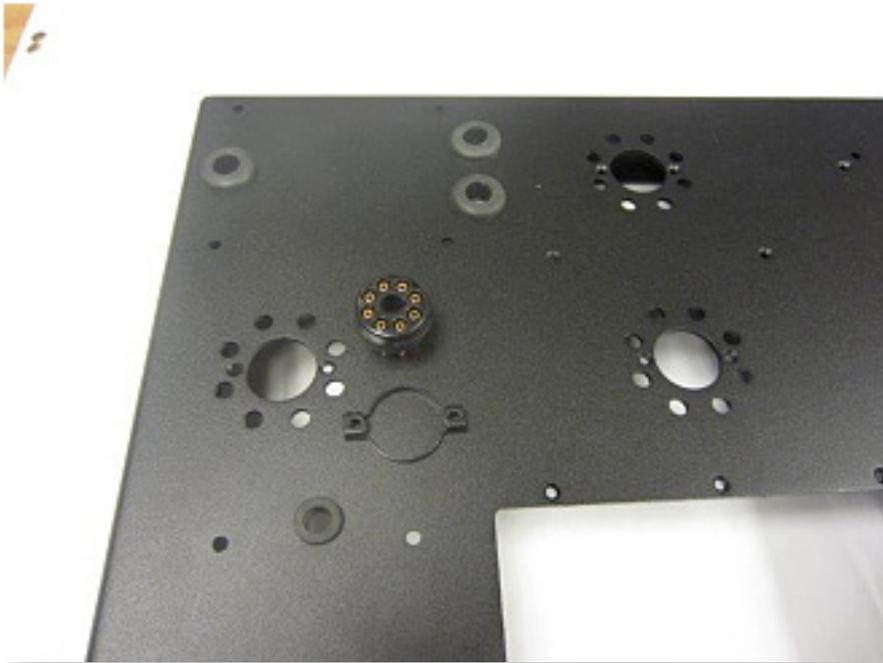


Install the three larger grommets into the 3 larger holes.

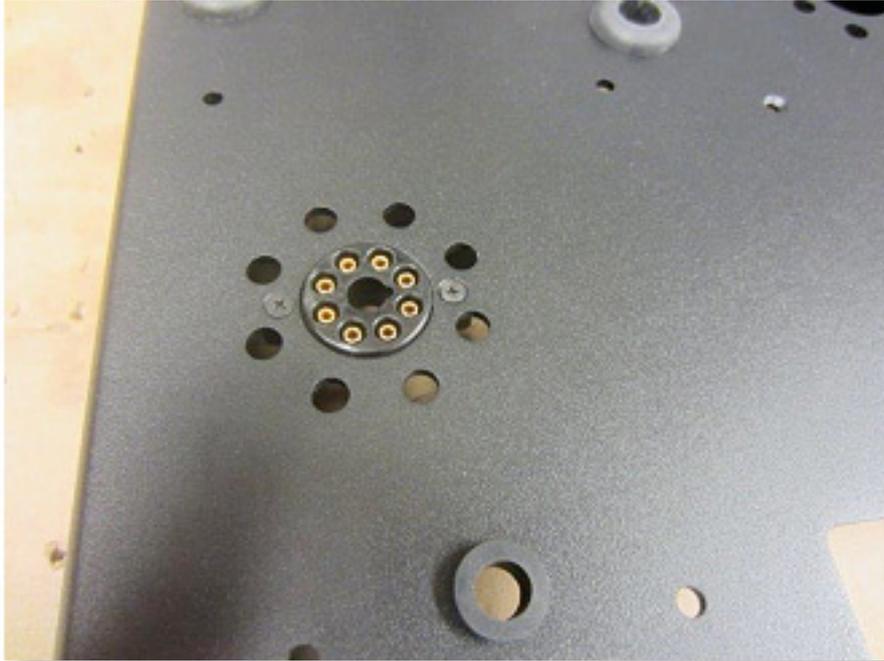
2

Mechanical section: *preparation*

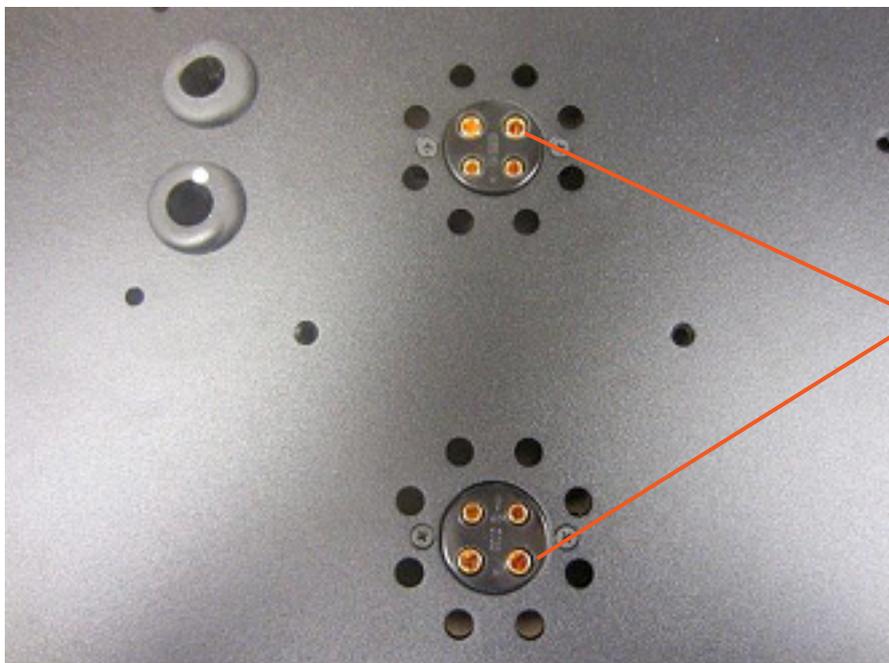
8 grommets installed correctly in chassis!



Lets install the 8 pin rectifier valve base. Find the KEY between pins 1 & 8 and make sure this points to the center of chassis – Feed the valve base in from under the chassis and secure with the mounting bracket and 2 black M3 10mm countersunk screws.

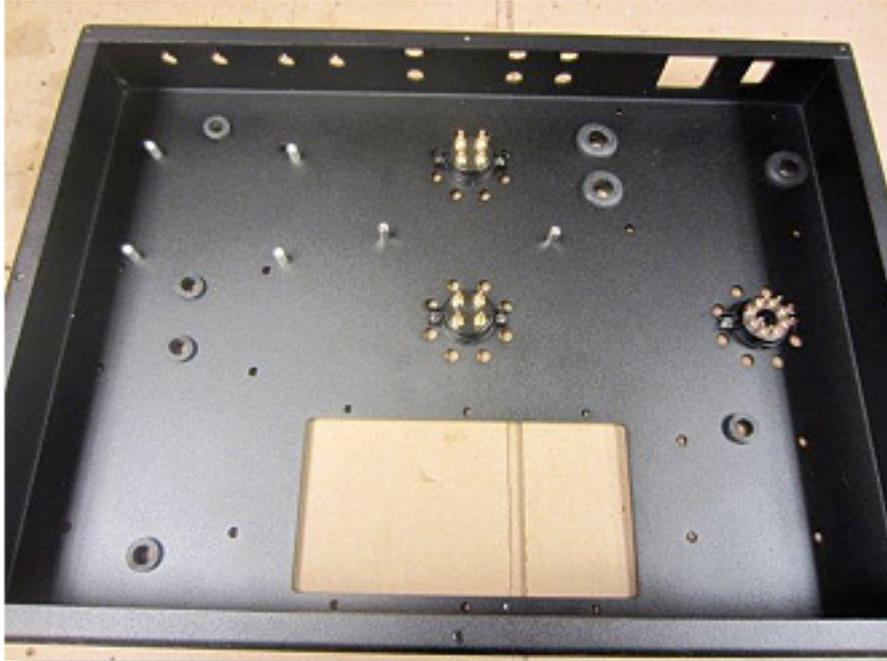


Note the orientation of the KEY on the 8 pin valve base.
Well done, the 8 pin base is installed.



Filament
pins

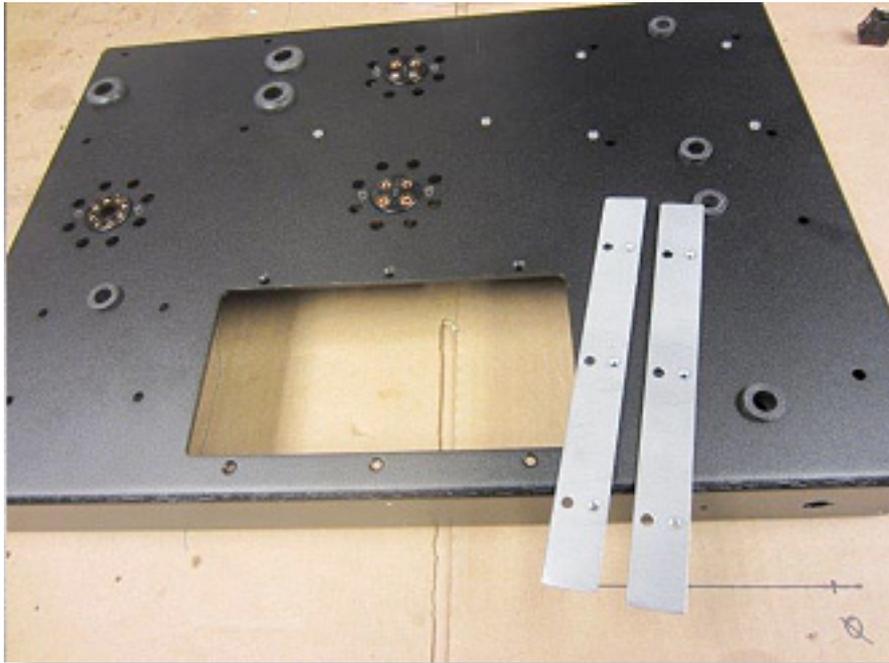
Now lets install the 4 Pin valve bases in the center of the chassis.
IMPORTANT: Note that each 4 pin valve base has two small holes and 2 larger holes
– the larger holes are for the FILAMENT Pins – make sure these are on the OUTSIDE!



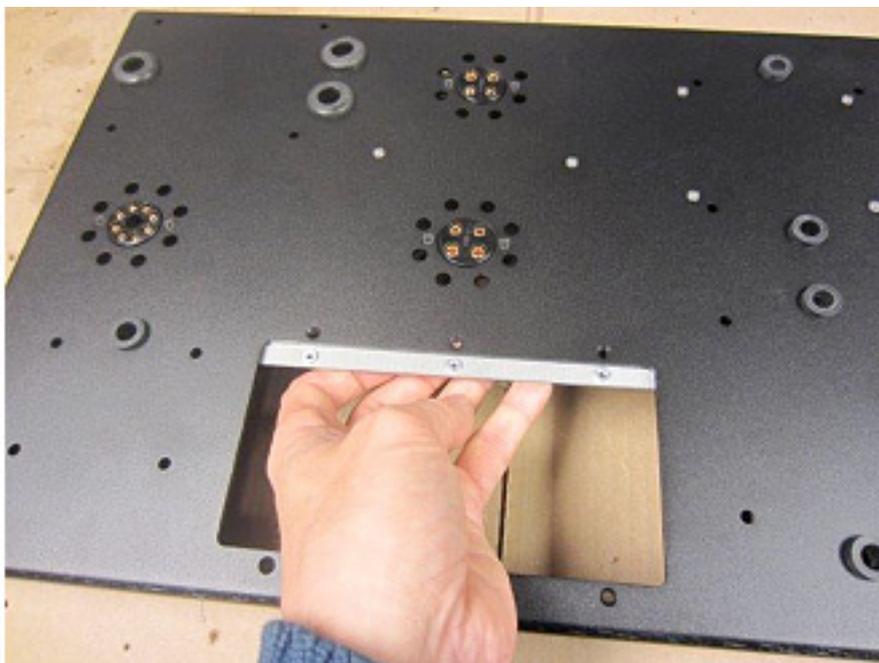
The next step after the valve bases have been installed is to install the two 10mm hex standoffs in the center of the underside of the chassis as shown in the above pic.

This is the mounting for the tag strip that we will install later for all the hardwiring. Use the 2 x M3 10mm hex standoffs and 2 M3 6mm countersunk screws that screw in from the top side of the chassis.

2

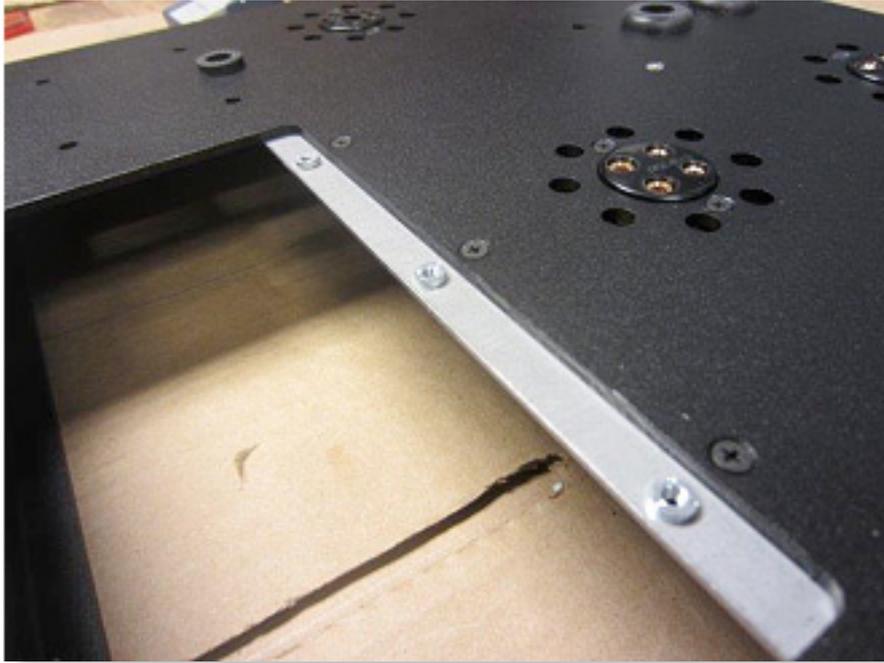
Mechanical section: *tang strips*

The next task is to install the TANG strips. These strips are used to support the front insert plate. The two tang strips will require 3 M3 x 10mm black counter-sunk screws and 3 M3 nuts to secure into position.

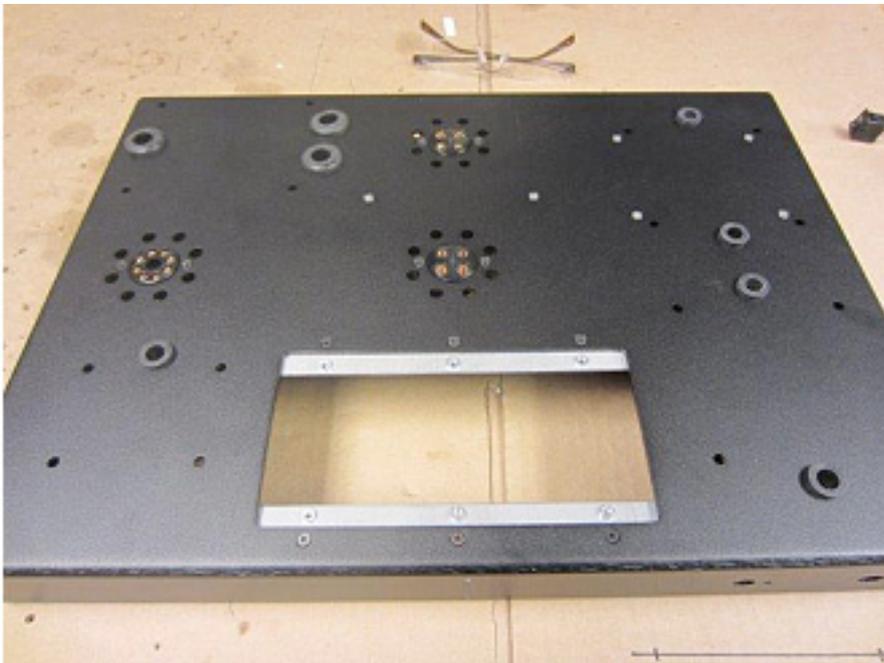


Position the TANG strip in the chassis as shown and then secure one of the 3 holes from the chassis with the tang strip.

2

Mechanical section: *tang strips*

Position the Insert plate in the chassis as shown with the PEMS faced up.

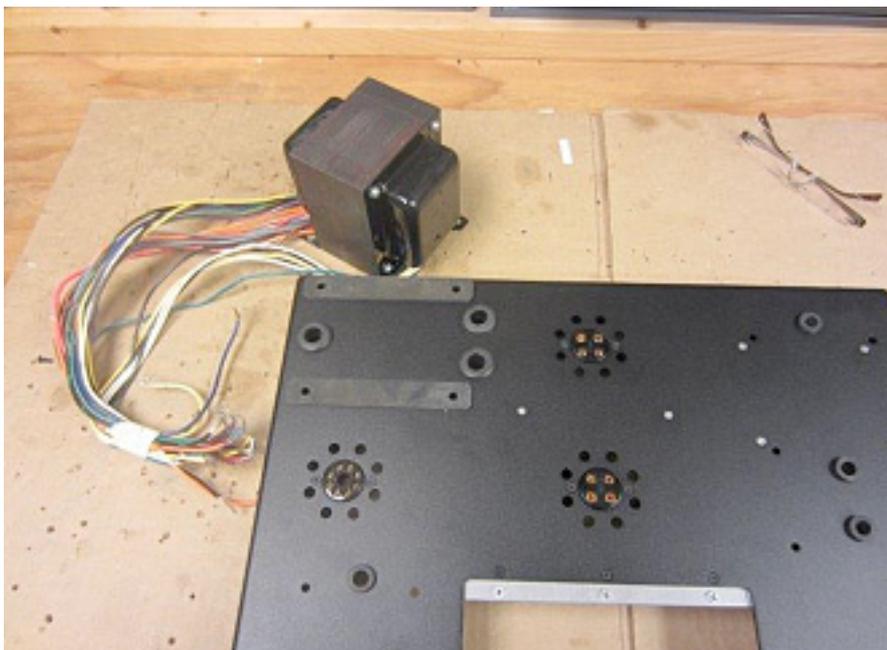


Using black M3 Counter Sunk screws and an M3 Nut to secure. Do not tighten them, keep them loose for now so they have some play. We will tighten them later once the insert plate is installed.

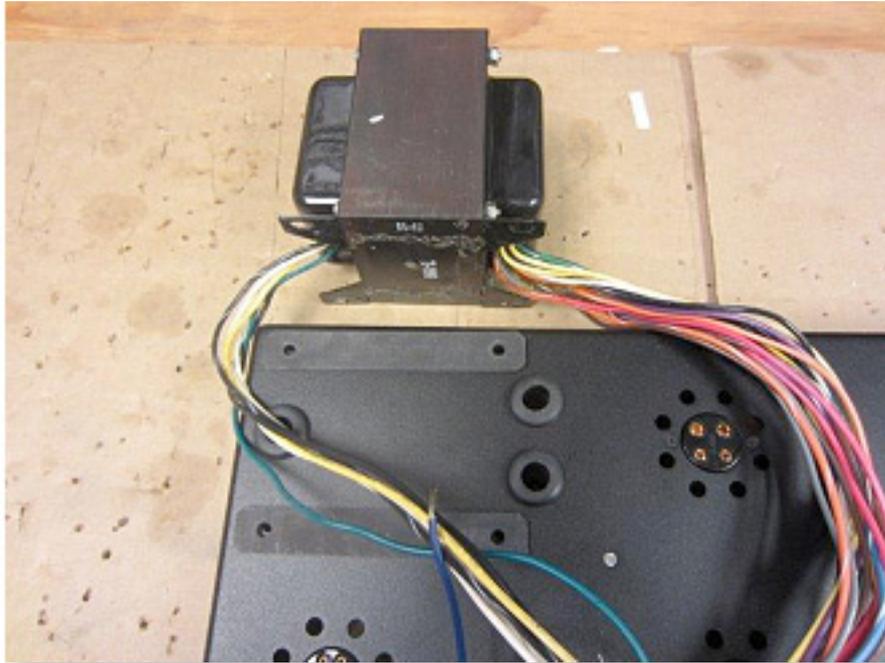


This section of the manual is a little tricky and requires a little patience – an extra set of hands would be useful although you can do it on your own if you follow the guidelines!! It's a good idea to read through the next few pages a couple of times so you understand the process.

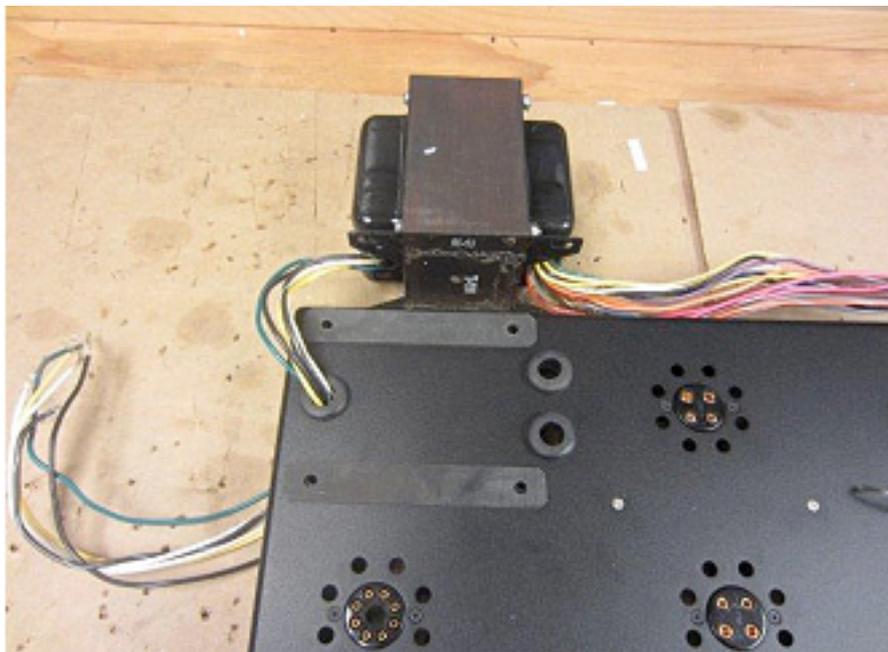
Get the rubber strips out of Chassis Kit Bag and position on the Chassis as shown above.



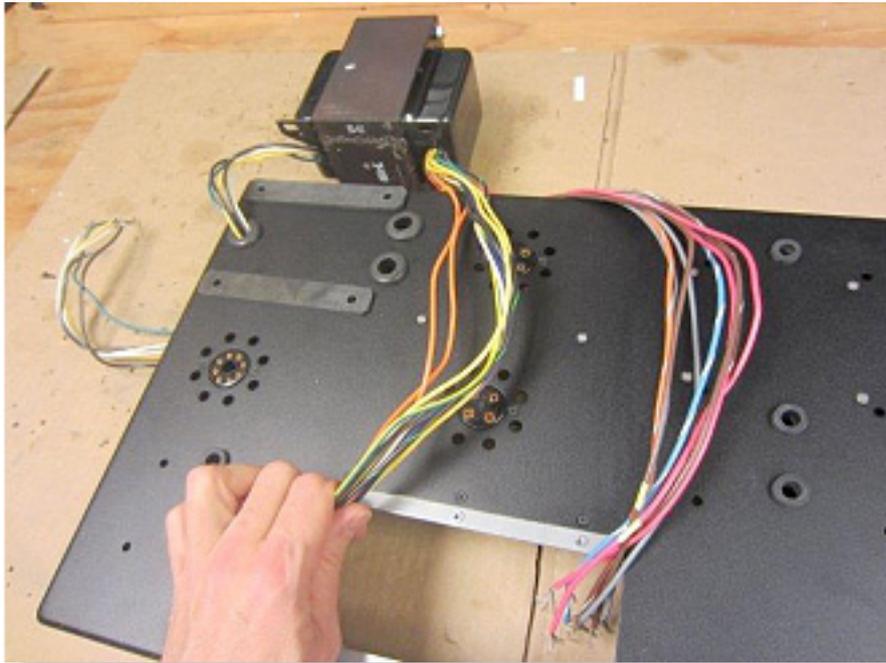
Here you can see the Mains transformer T-199 ready!



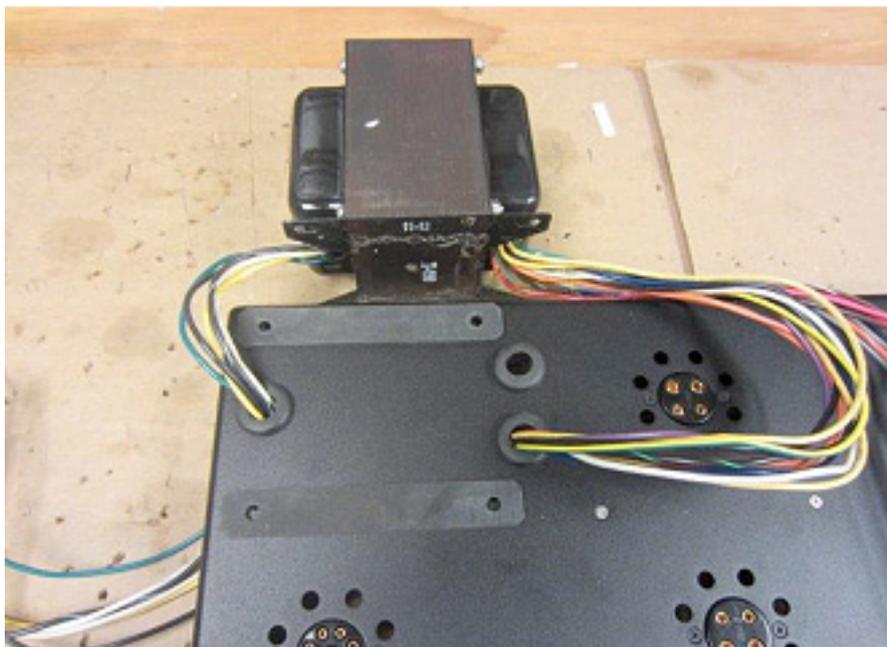
Now the Mains transformer, look for the T-199 code on the bottom of the transformer and position beside chassis as shown.
Position the Transformer on its side with the small set of wires (Primary) on the LEFT.



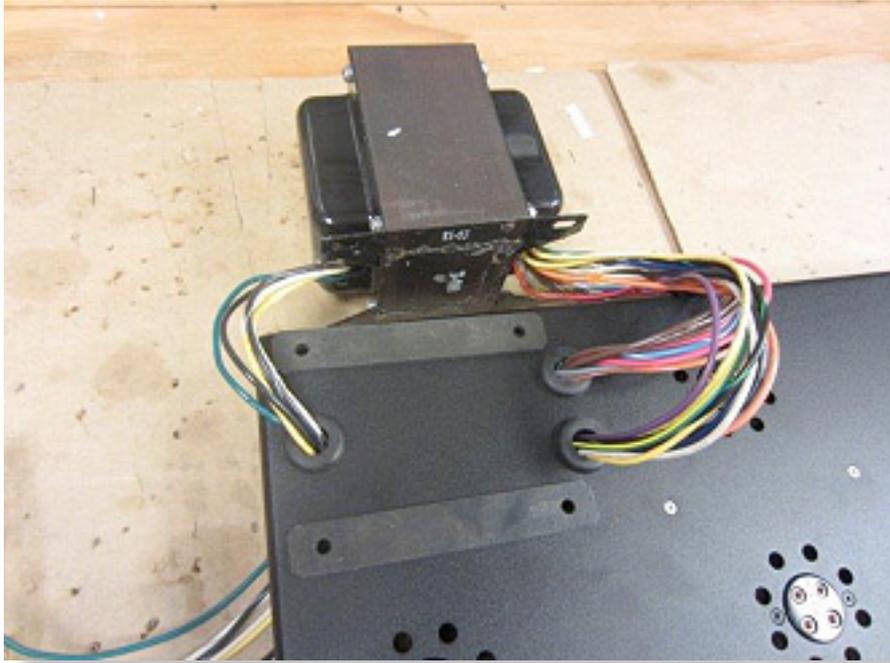
Now put the wires through the first grommet.



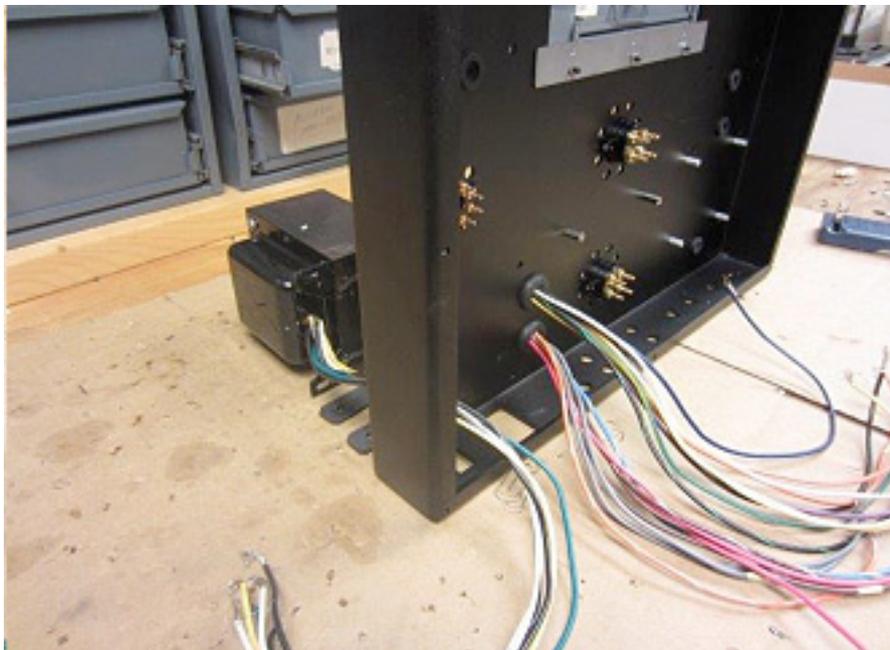
Now on the secondary divide the wires up into two sets – each set being approximately 9 or 10 wires on each side – divide them equally.



Wire the first set through the grommet shown.



Wire the second set through the next grommet as shown.

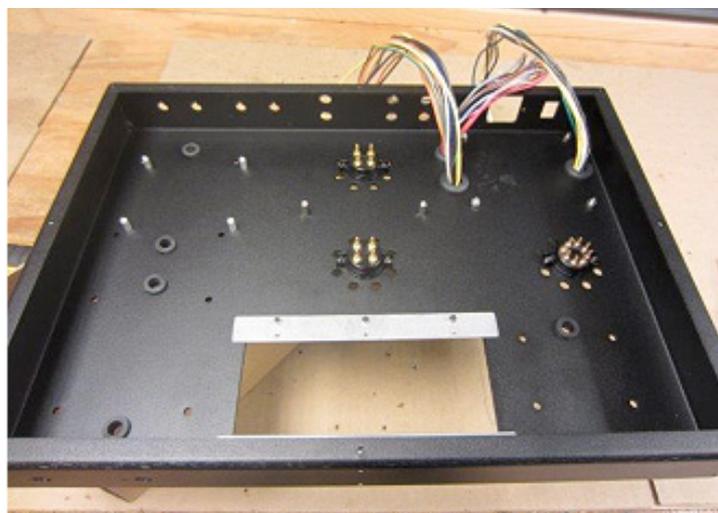


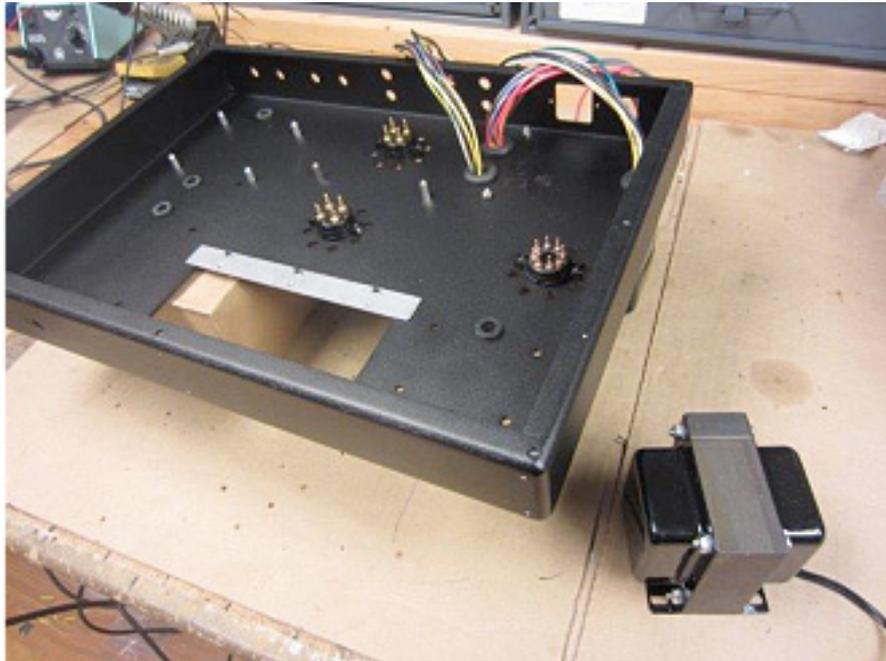
Now stand up the chassis and continue pulling the wires through the grommet holes. This might be a good time to have a second set of hands.



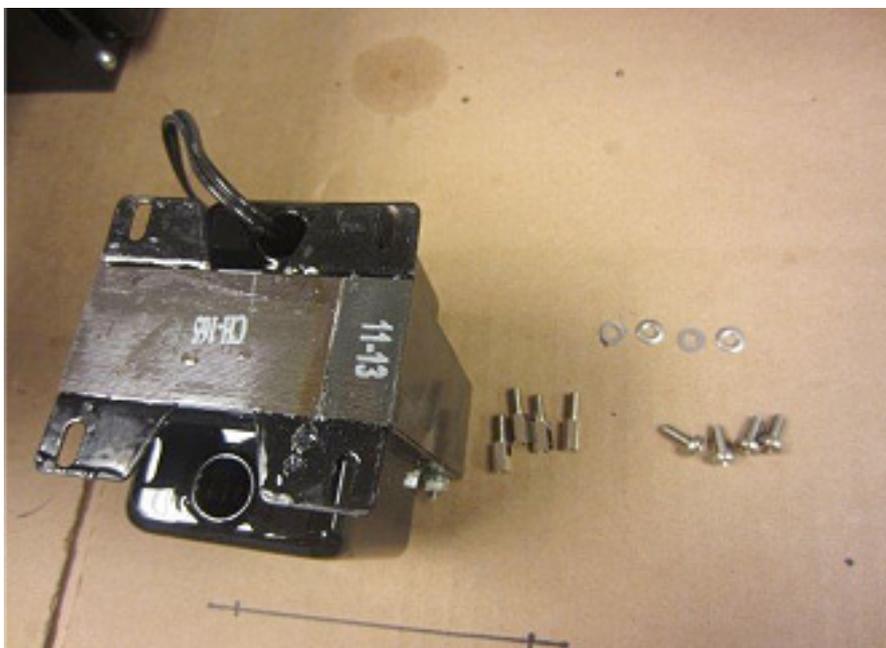
Once the transformer is CLOSE to the chassis, insert the rubber strips or at least one of them back into position and see if you can get a screw into position to start securing the mains.

Use the M4 Fender washer and screw on the top of the transformer and the serrated washer and nut on the bottom of the chassis. A good tip is to just get the nut on for now and later when the chassis is upside down with the Mains in position you can remove the nut and add the serrated washer. It's quite tricky with just two hands to install the serrated washer and nut while screwing from the top side. Congratulations! You have the mains transformer installed.

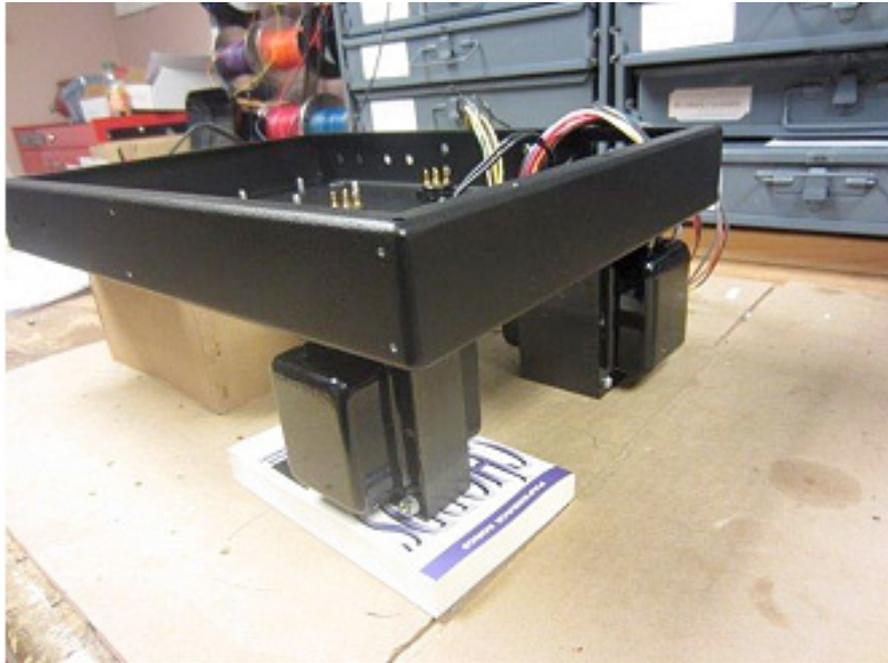




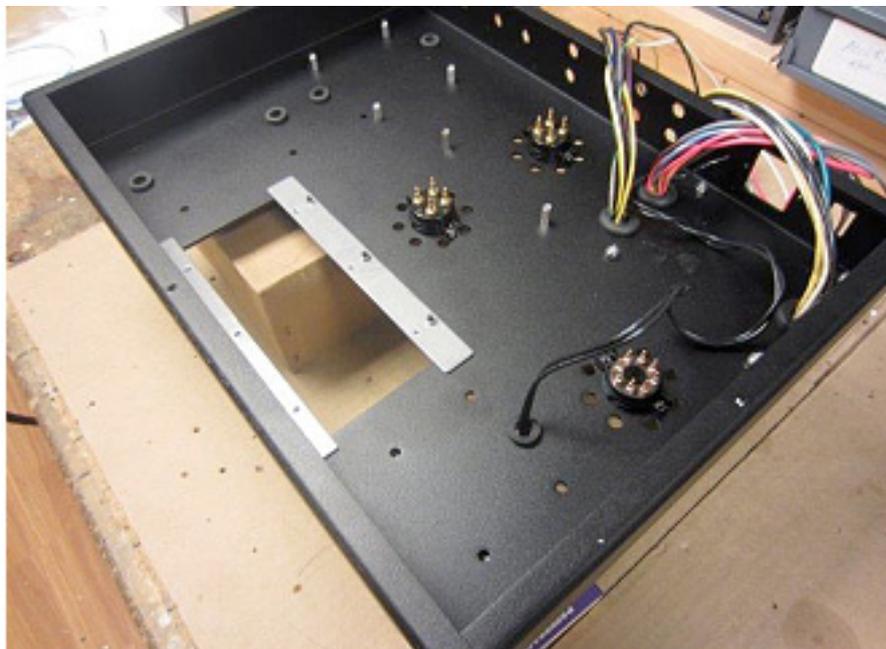
In this section we will be installing the CHOKE transformer which is labelled CH-165 on the bottom. Here you can see the CH-165 (bottom right in the pic above).



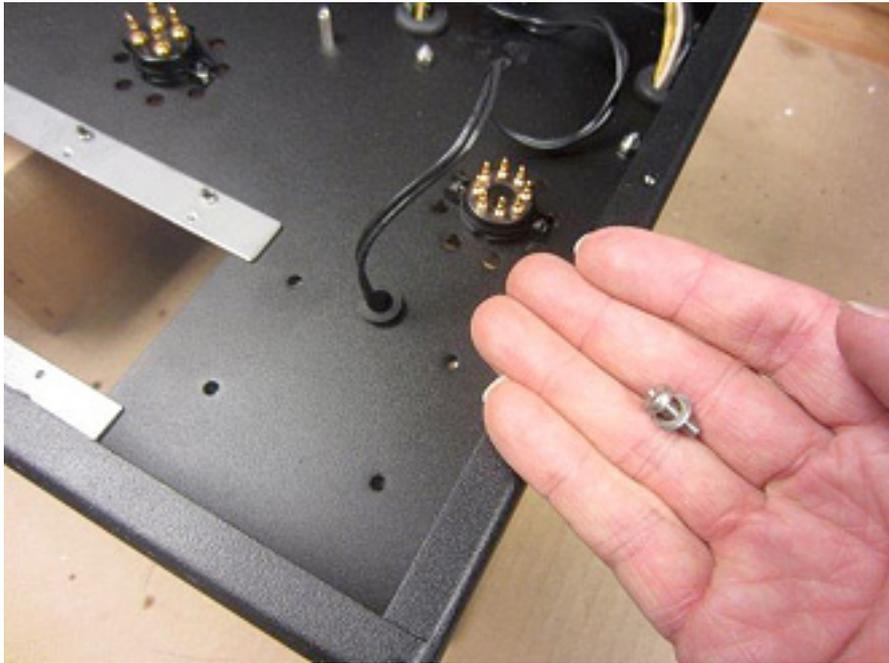
In the Choke hardware bag you will find M4 10mm PAN screws along with M4 Standoffs and M4 washers.



Prop up the chassis with some books to hold up the LEFT side of the chassis and then get a book to support the CHOKE in position as shown.



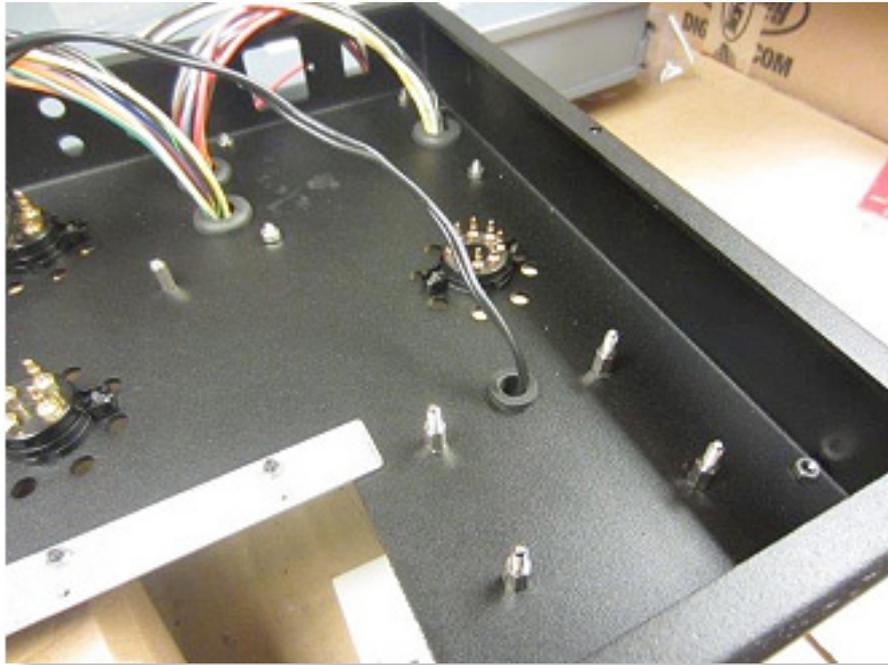
With the choke in position feed the 2 choke wires through the grommet as shown.



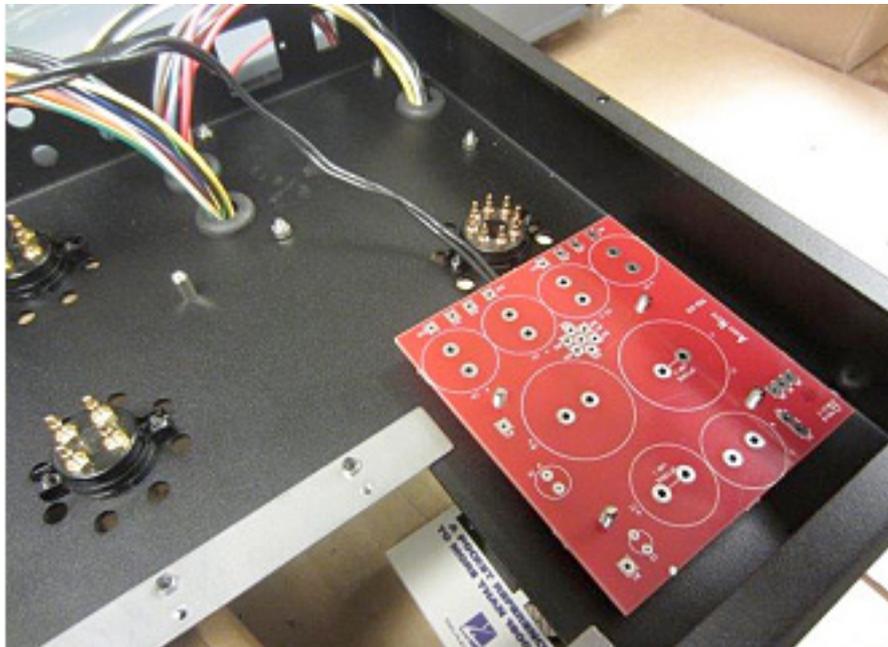
Now take the M4 10mm screw and washer and insert through the top of the choke – through the chassis.



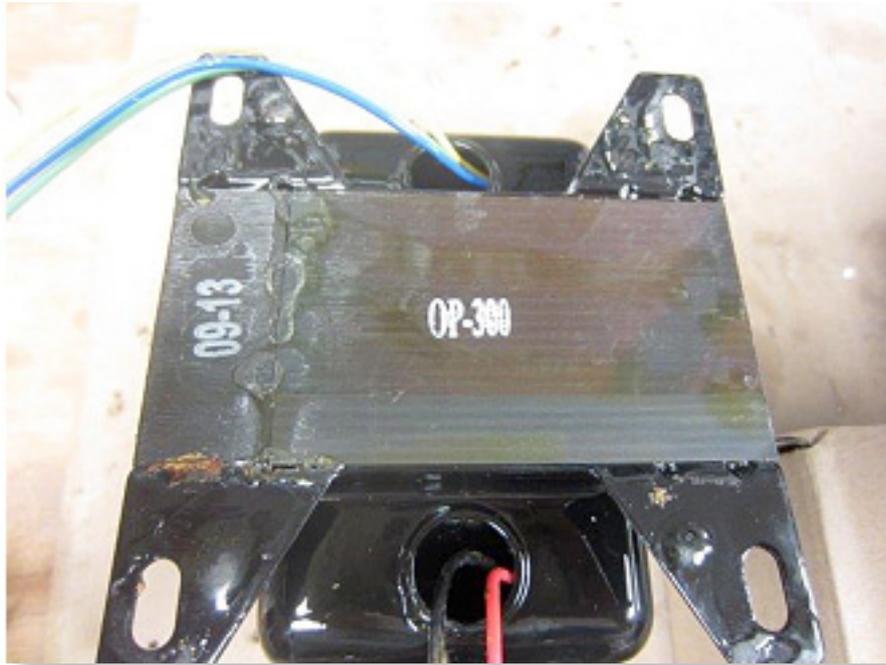
Now on the inside of the chassis in view above use the M4 standoff to screw down onto the M4 screw that is protruding through.
See next page for a clearer view.



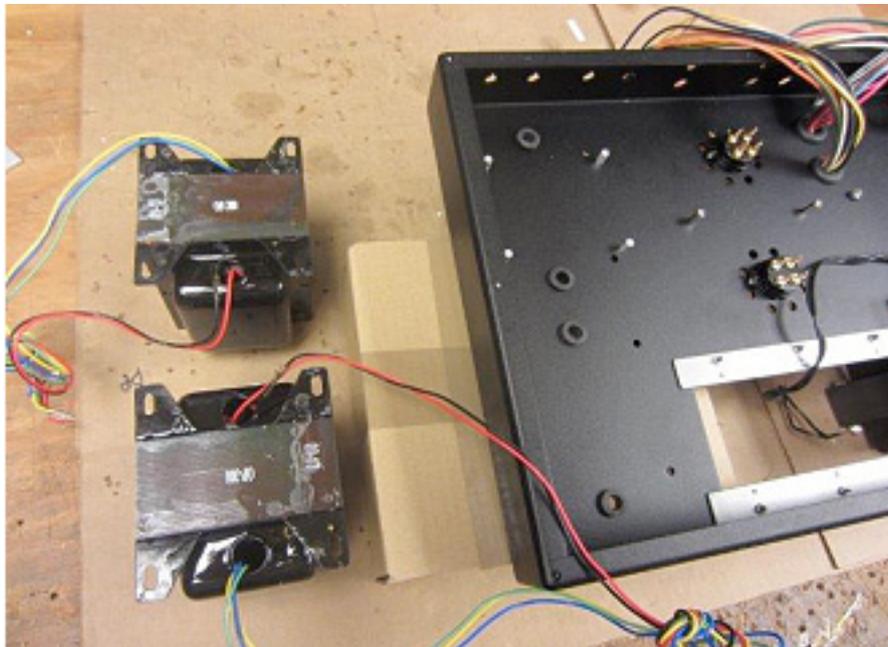
Here you can see the 4 Hex standoffs are securing the CHOKE transformer to the chassis.



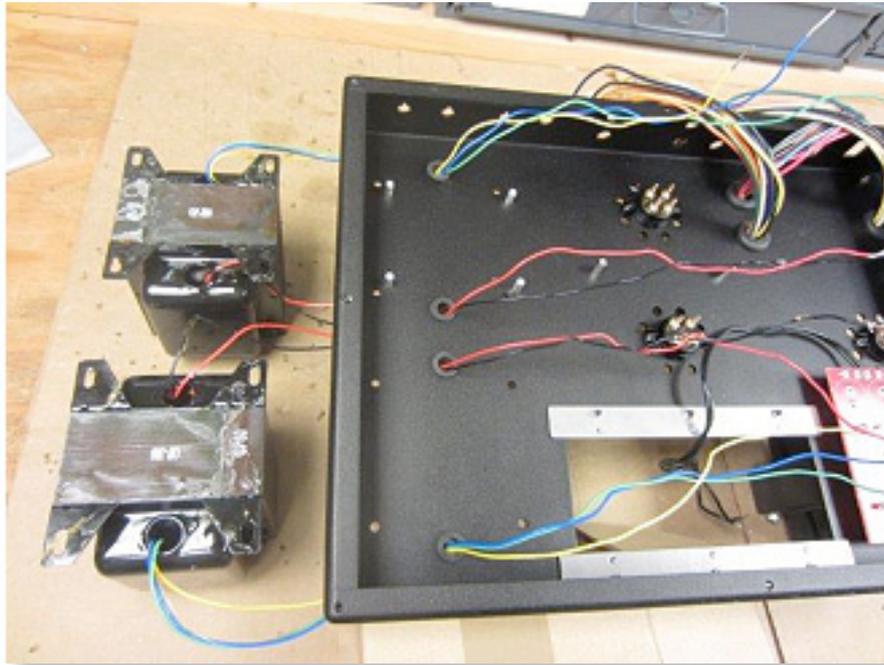
Just to make sure that the screws are positioned correctly you can place the Power supply board over the screws temporarily to check that all is well.
Well done, the CHOKE is now installed.



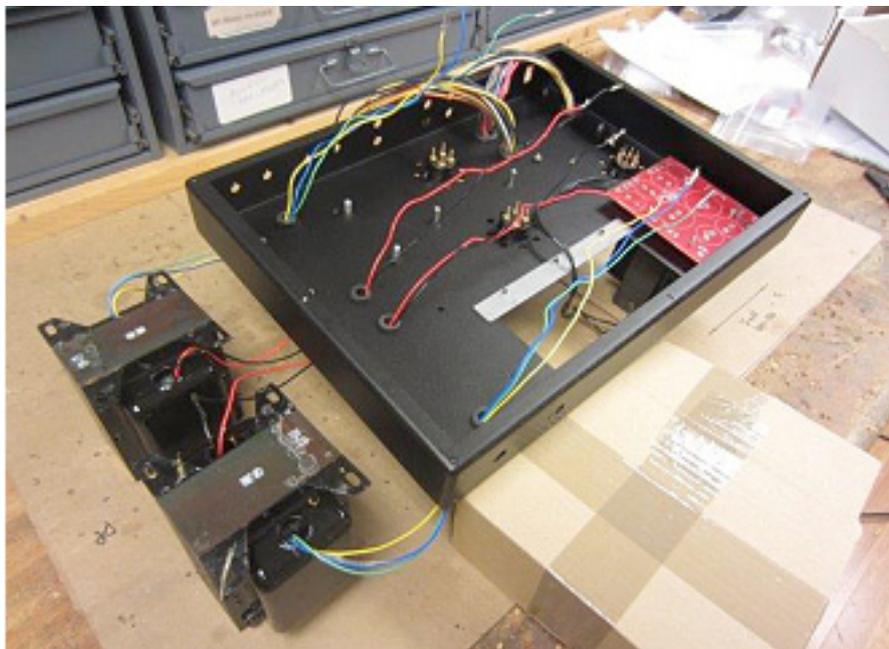
In the final section of the mechanical install we will add the two output transformers. They can be identified by the OP-300 designation on the bottom.



Position them beside the chassis below and note the wires – red and black facing each other.



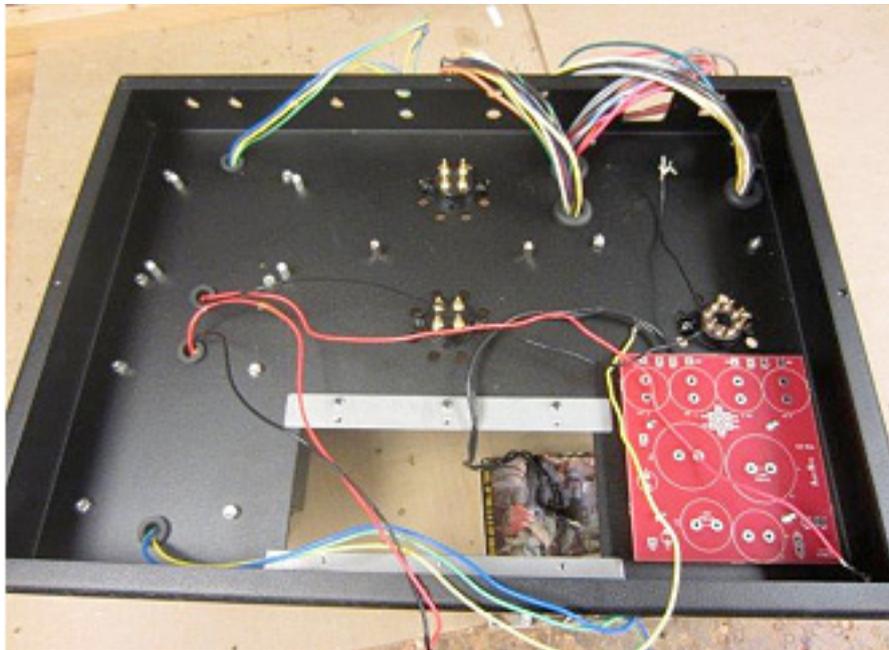
Now thread the wires through the grommets as shown above and below.



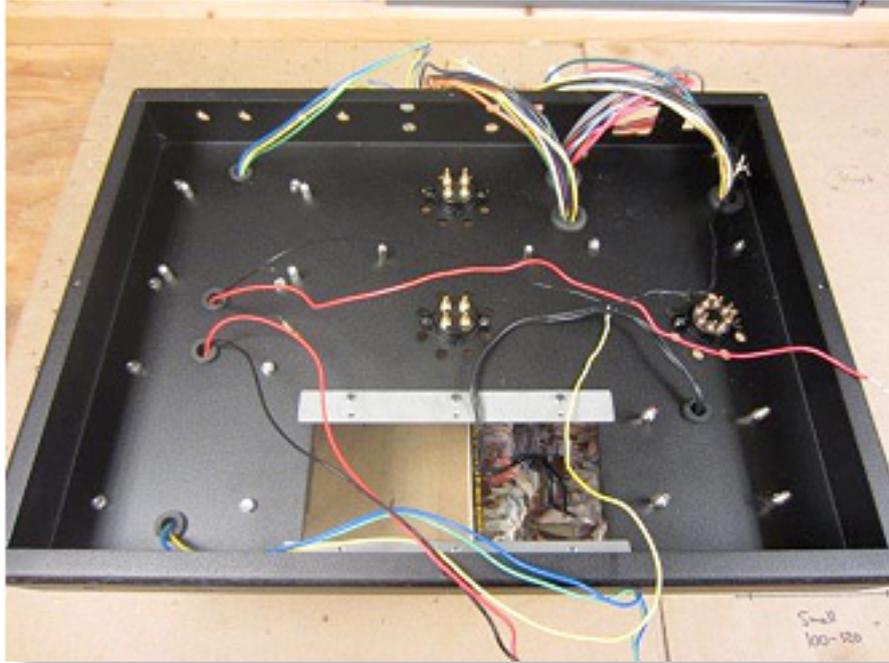
2

Mechanical section: *output transformers*

Get the M4 10mm hardware along with nuts , washers and serrated's in order to install the output transformers.

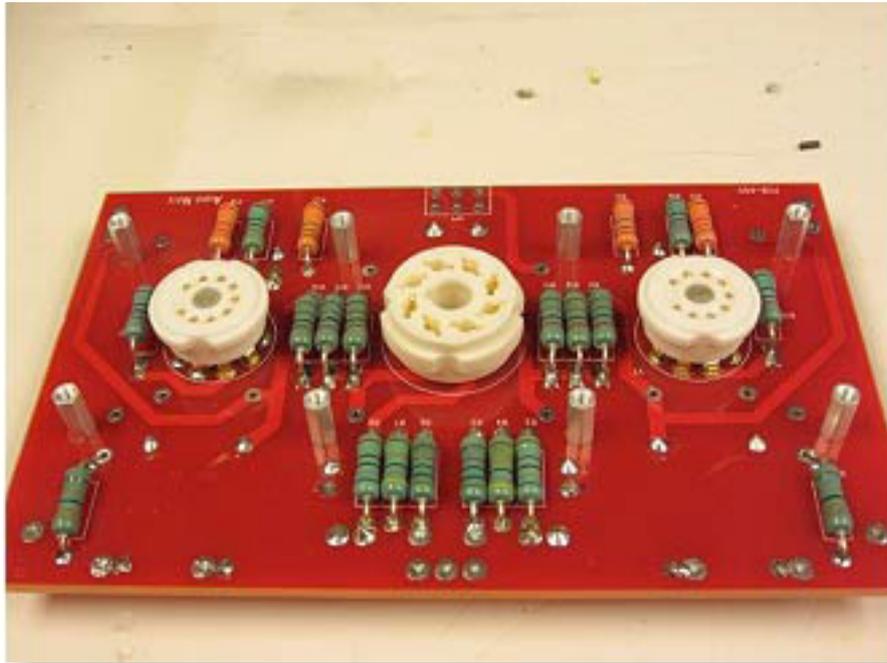


Feed the 10mm pan screw and flat washer through the transformer and into the chassis and then secure with serrated washer and M4 nut on the underside of the chassis (facing you). Transformers are now installed.

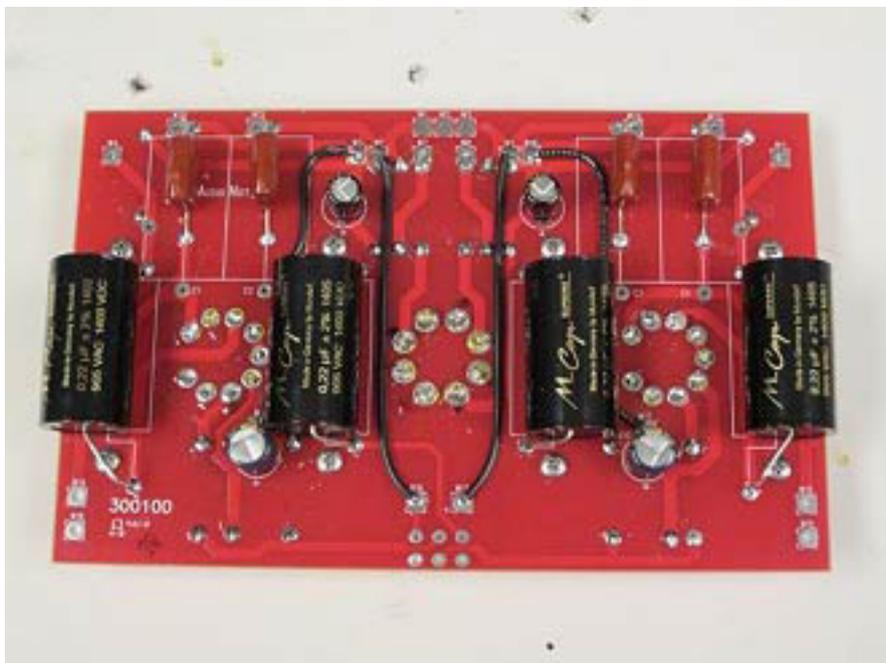


Now all the transformers are installed we can start working on the circuit boards, hardwiring of the 300B section, the filament board and the IEC rocker section.

Let start with the IEC rocker section where we will use the primary windings of the Mains transformer.



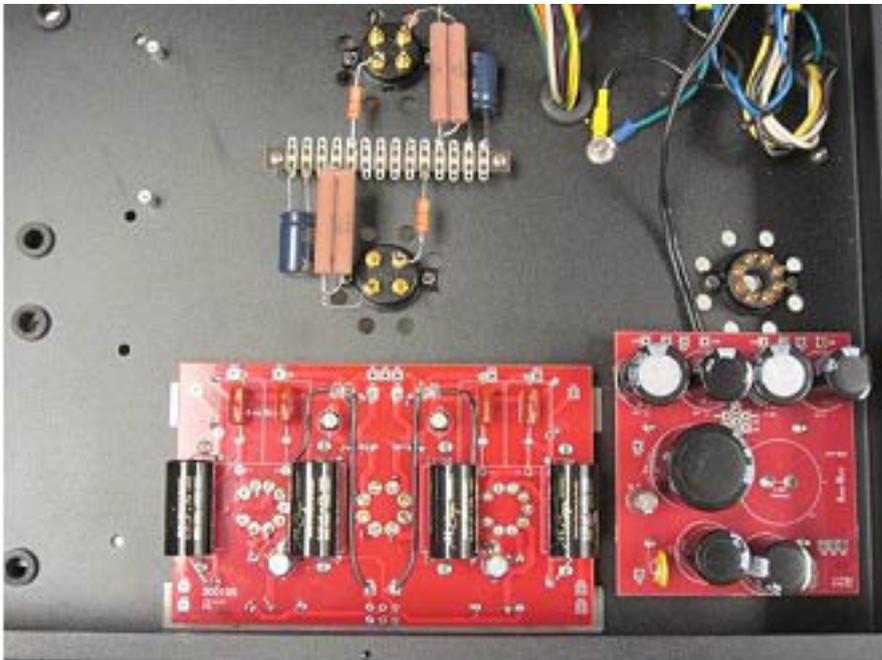
In this section we will build up the main driver board which house three tubes. This is the pre-amplifier and 300B driver circuitry. Above is the top view of the completed board.



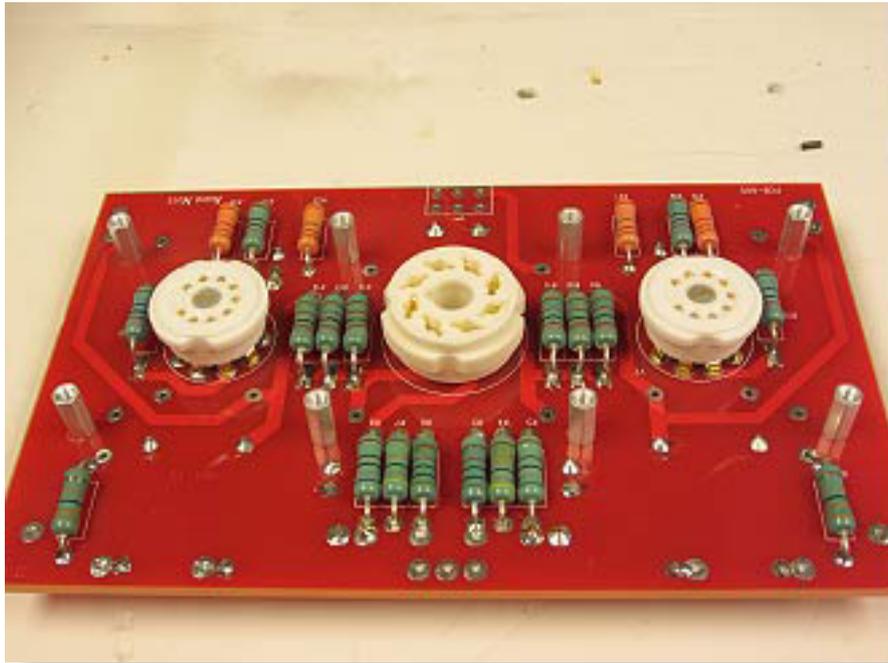
The undersides of the completed driver board showing the 4 capacitors.



When the driver board is installed in the chassis you will see this side with the 4 capacitors.

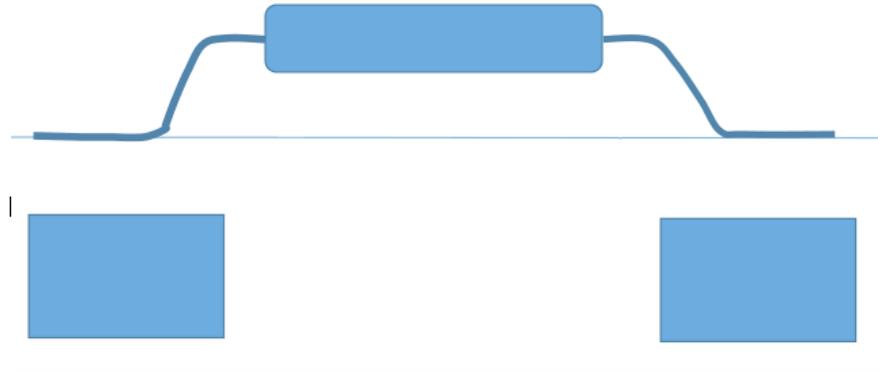


The driver board positioned in the chassis.



Lets get started with Resistor Installation as shown on the pic above.

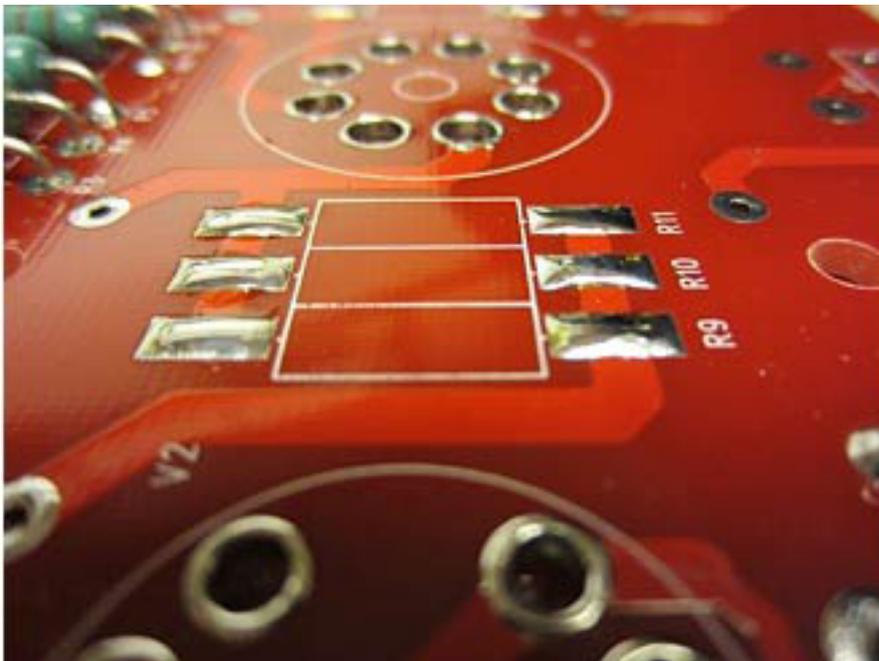
Quantity	Type	Make	Position	Value
2	RESISTOR	TAKMAN	R1 R2	330K 1Watt
2	RESISTOR	TAKMAN	R3 R8	680R 1Watt
2	RESISTOR	TAKMAN	R4 R7	470K 1Watt
2	RESISTOR	TAKMAN	R5 R6	10K 1 Watt
6	RESISTOR	TAKMAN	R9 R10 R11 12 13 14	82K 1 Watt
2	RESISTOR	TAKMAN	R15 R18	1K 1 Watt
4	RESISTOR	TAKMAN	R16 R17 R19 R20	820R 1 Watt
2	RESISTOR	TAKMAN	R21 R22	1M 1Watt

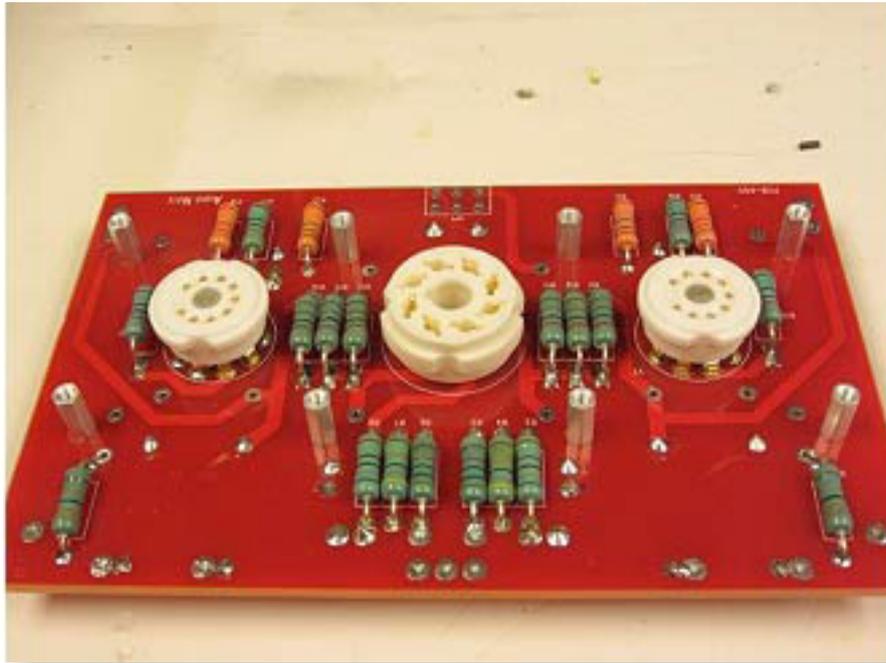


Here you can see how we need to bend the resistor to position over the solder pad. We suggest that you TIN the solder pads on the pcb.

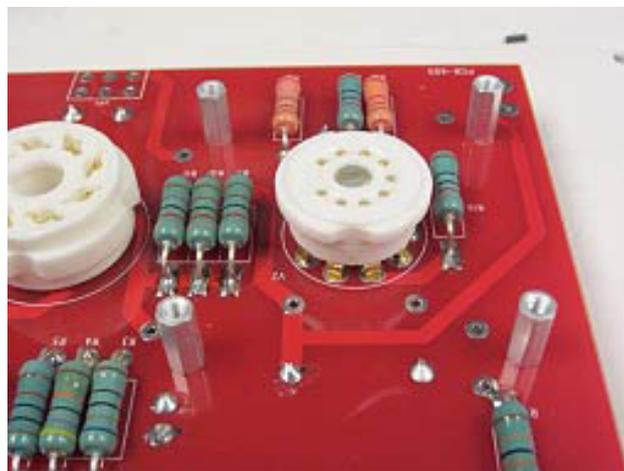
Then you can add some solder to the resistor lead that will be in contact with the PAD. Use a pair of pliers in one hand to hold the resistor body while you solder the resistor to the pad. With both the lead and the pad tinned you won't need to add any additional solder, just bring the resistor lead to touch the pad and you will just have to use your soldering iron to add a little heat.

You probably won't need to add any extra solder at this point.



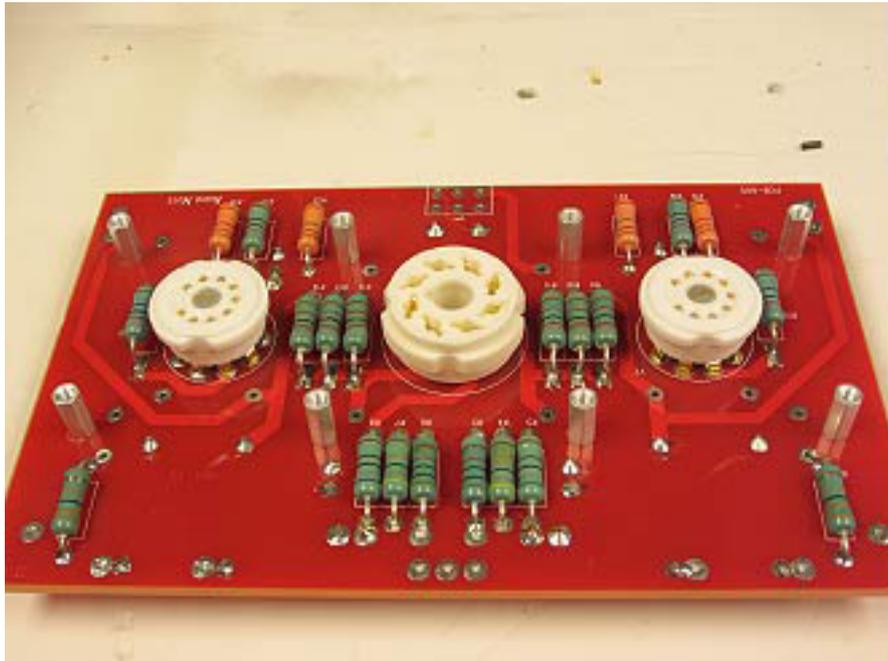


Here we can see the resistors installed on the solder pads. Once the resistors are installed you can install the Valve bases. There is one 8 pin valve base and 2 x 9 pin valve bases.



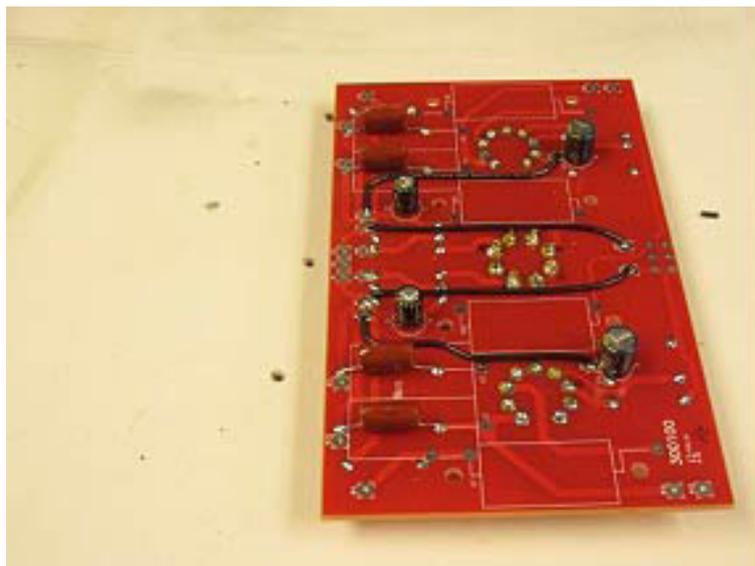
The 9 pins only go in one way – just let them rest naturally in position on the board as above. Solder one pin in position on one side and then a pin on the other side of the valve base so that the valve base will be LEVEL. Once it looks level you can solder the rest of the pins from the bottom.

HINT : Use some tape to hold the valve base in position while you solder on the underside of board.

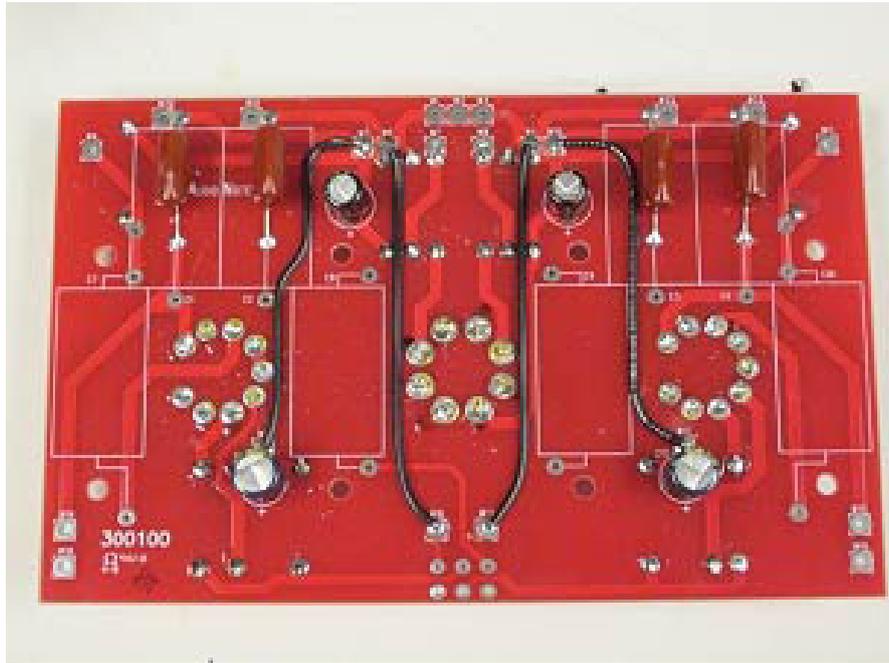


IMPORTANT: The 8 position valve base has a notch in the center of it – you can see it in the pic above. Also note on the PCB you will see a notch that would be pointing to the LEFT when you look at the board in the way it is positioned above.

Once the RESISTOR / VALVE base side of the board is completed you can turn it over and work on the capacitor side.

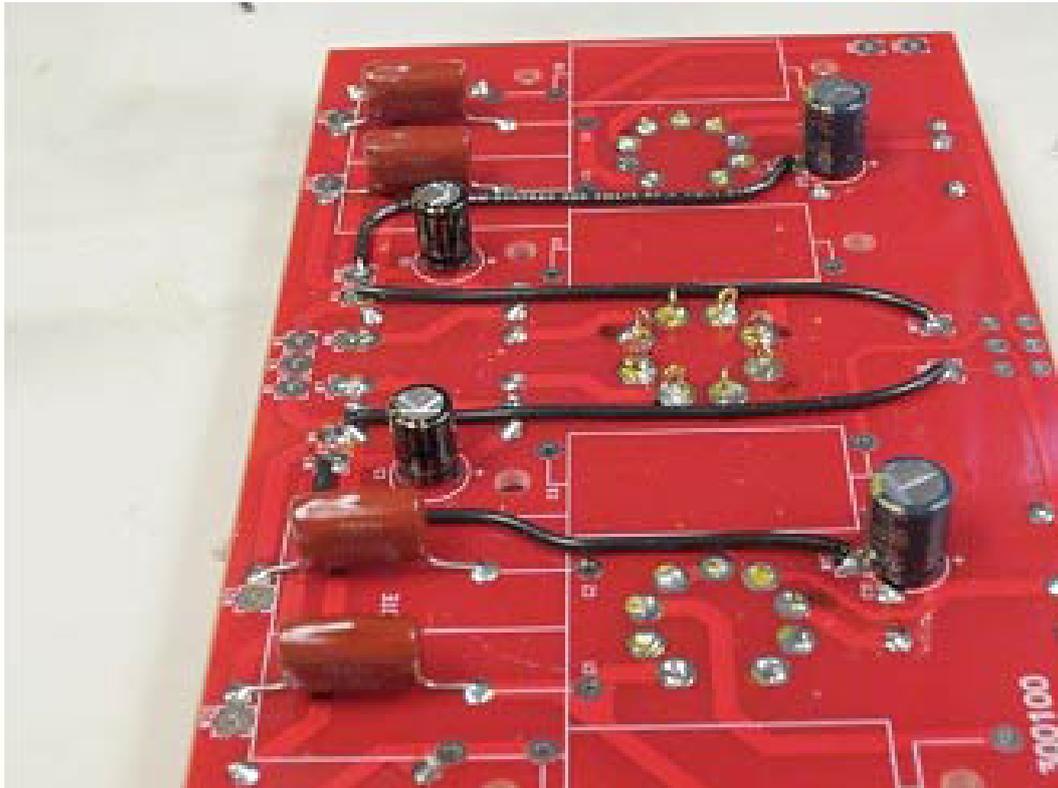


Next install the 4 GROUND wires.



Connect with black wire 18g.
Strip the wire and insert the bare wire through the W hole.

- W12 to W5
- W6 to W16
- W17 to W9
- W10 to W13



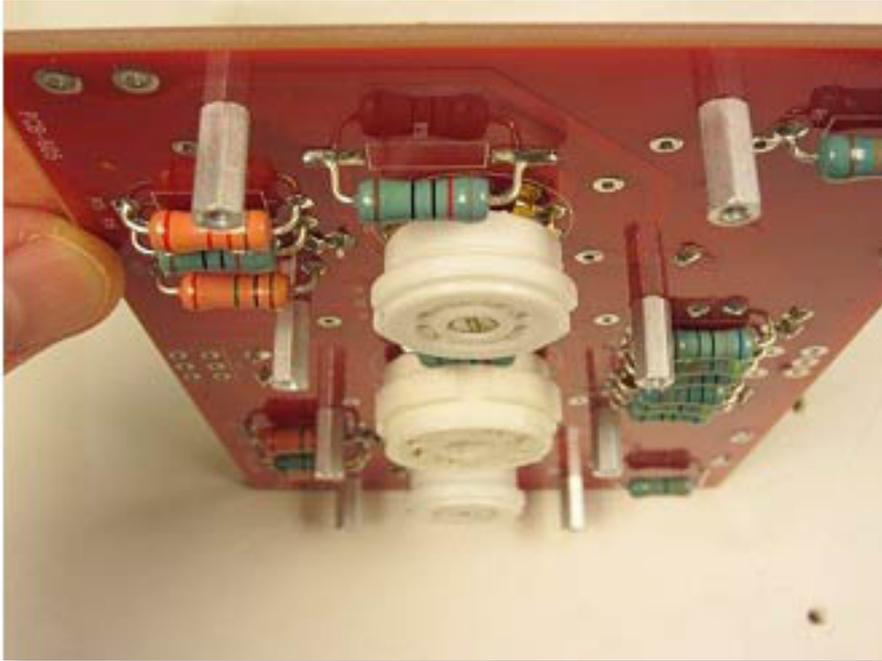
Now lets install the 2 x 470uf 16v capacitors in positions C11 & C12. These capacitors are polarized so be aware of the + located on the PCB. On the capacitor you will see a stripe down one side, this is the negative side.

Next install the 2 x 100uf 6.3V capacitors into positions C5 & C6 (also polarized) and be sure the stripe is on the opposite side to the + on the pcb. The 4 capacitors installed here are all cathode capacitors for the 6SN7 and 5687 tubes.

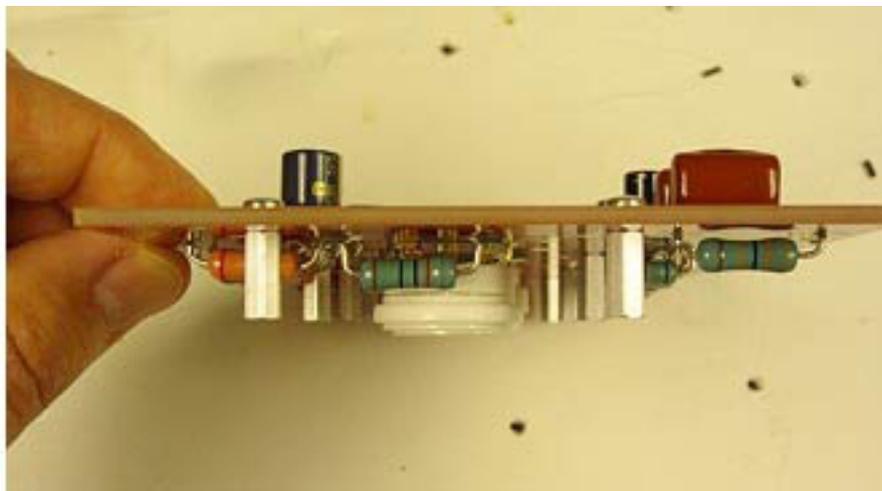
Prior to installing the 4 x .22 film caps at in C1 C2 C3 C4, we are going to do some critical wiring which is easier to do without the film caps in position, so lets install those later on in the manual.

During the Interwiring section of the kit (refer to your wiring guide) we will be wiring some transformer wires to the valve base pins. It's easier to do this without the caps are not installed. We will also give you some other tips on the film caps at that time.

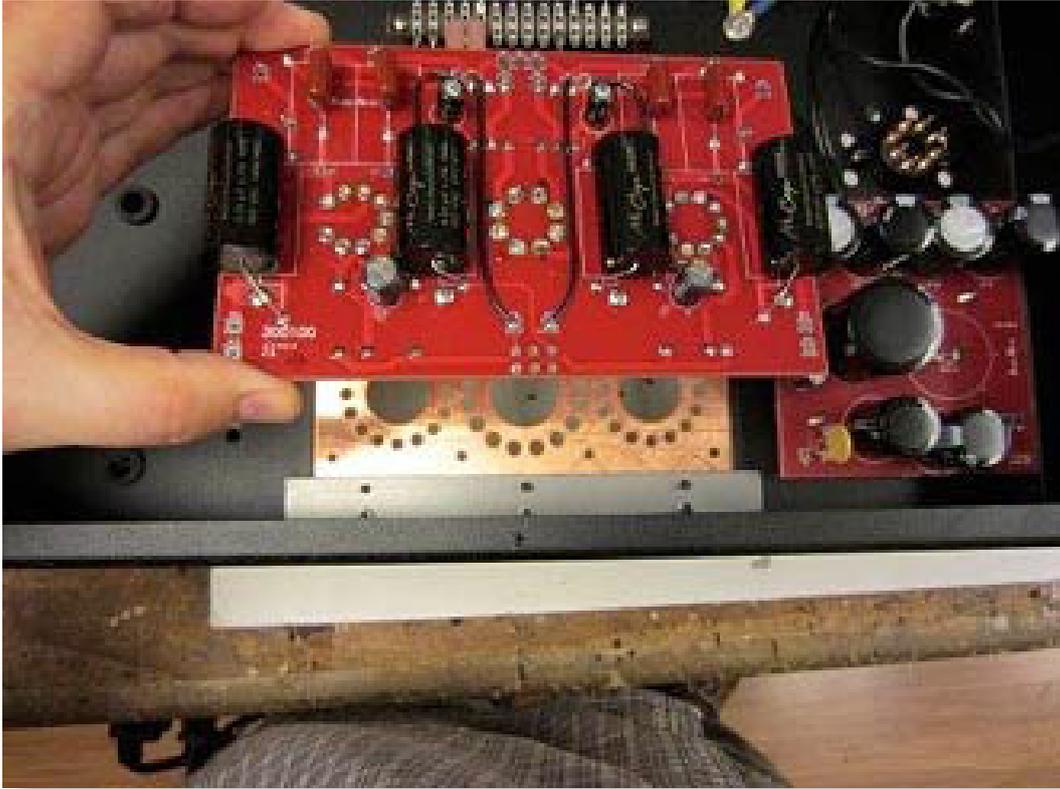
That completes the components on the Driver Board for now!



Now lets add the hardware to complete the board – you will use 8 x 12mm M3 hex standoffs that will be installed on the RESISTOR side of the board. Secure with M3 Pan head screws.



You can install the front insert plate onto the TANG strips which are attached to the chassis . The tang strips are on the underside of the chassis but the insert plate will be installed on the top side of the chassis. You can secure it into position with the 6 black M3 10mm screws so that you can rest the completed driver board on it for the rest of the build.



We have a lot of wiring to do to this board during the rest of the kit so leave it "free" for now so we can pick the board up etc.

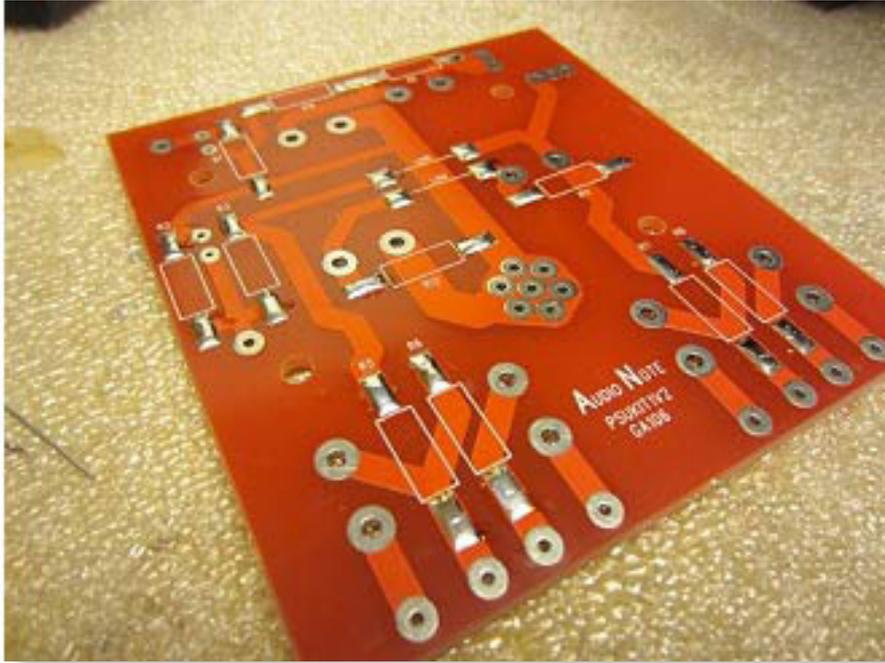
This completes the driver board.

Note: board is shown with 4 film caps installed but we have asked you to wait till the end to ease the interwiring.



In this section we will build the Power Supply board.
Below is the Power Supply PCB Parts list that you will find in the PS kit bag.

Quantity	Position	Item	Value
1	C8	CAPACITOR +/-	450v 220uF
2	C12 C14	CAPACITOR +/-	450v 100uF
2	C11 C13	CAPACITOR +/-	450v 68uF
2	C1 C2	CAPACITOR +/-	400v 47uF
1	C9	CAPACITOR +/-	160v 10u
1	C4	CAPACITOR	.001uF KV
2	R5 R7	RESISTOR	2K2
1	R2	RESISTOR	82K
1	R1	RESISTOR	100R
2	R9 R10	RESISTOR	220K
1	R3	RESISTOR	330K
2	R6 R8	RESISTOR	2K7
1		Power Supply PCB	



Lets start by installing the resistors to the underside of the PCB.

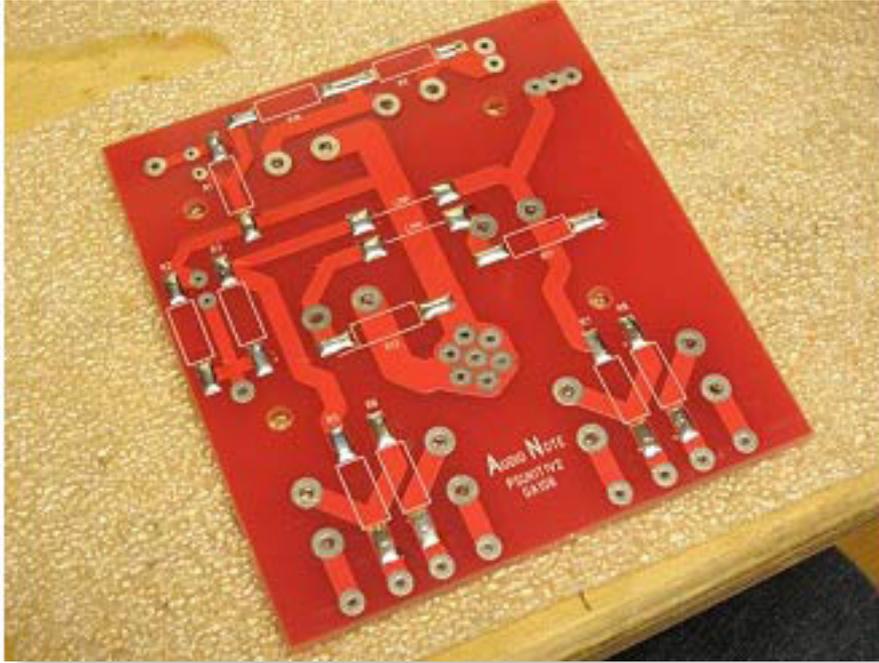
Quantity	Position	Item	Value
2	R5 R7	RESISTOR	2K2
1	R2	RESISTOR	82K
1	R1	RESISTOR	100R
2	R9 R10	RESISTOR	220K
1	R3	RESISTOR	330K
2	R6 R8	RESISTOR	2K7

You will be installing the resistors in the following fashion.

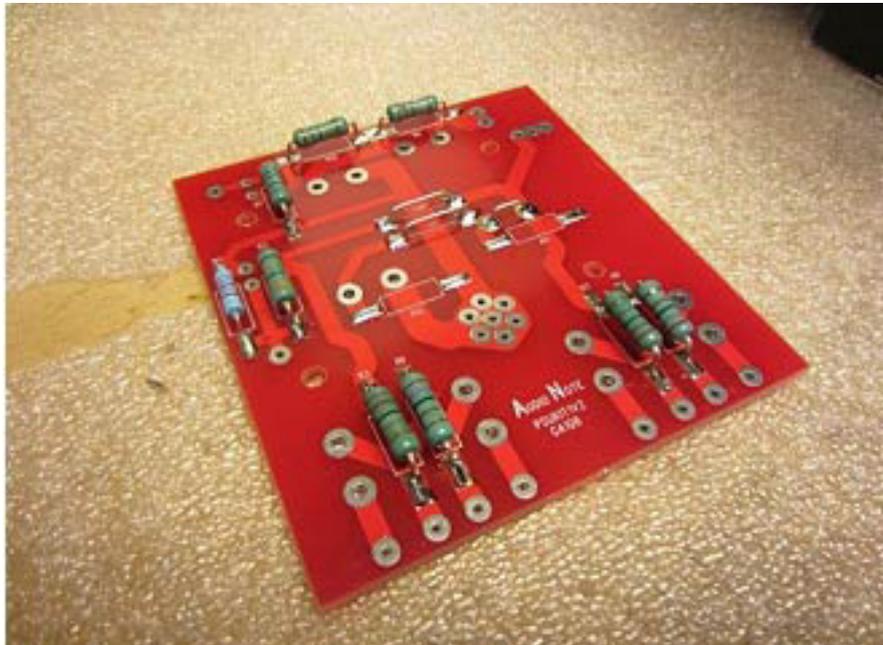


You will need to bend the resistors as above. Then tin all the PCB pads at the positions noted in the chart above, and solder each resistor in position. See the next page for more pics.

4

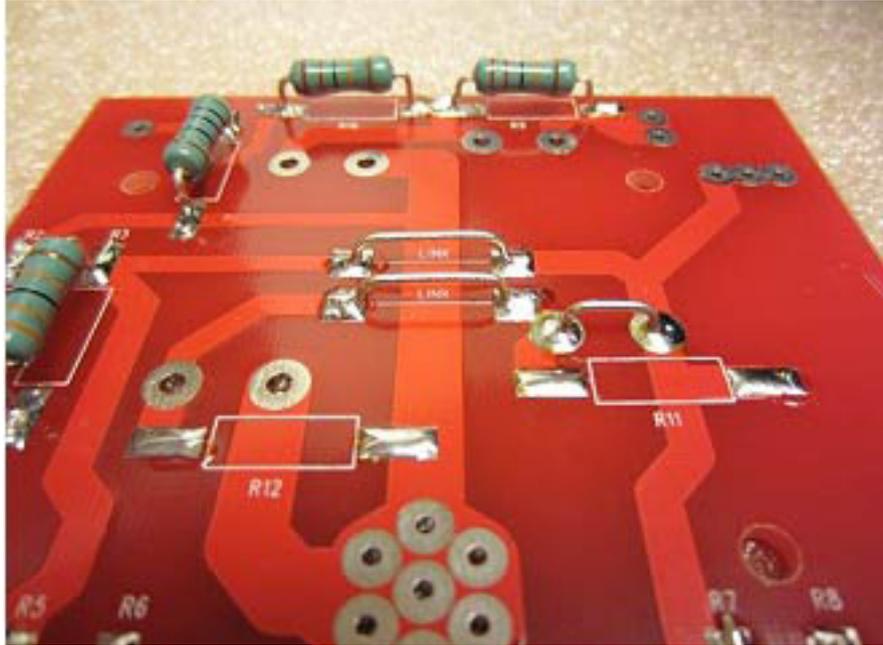
Power Supply: *installing the resistors*

The pads ready tinned / loaded with solder.

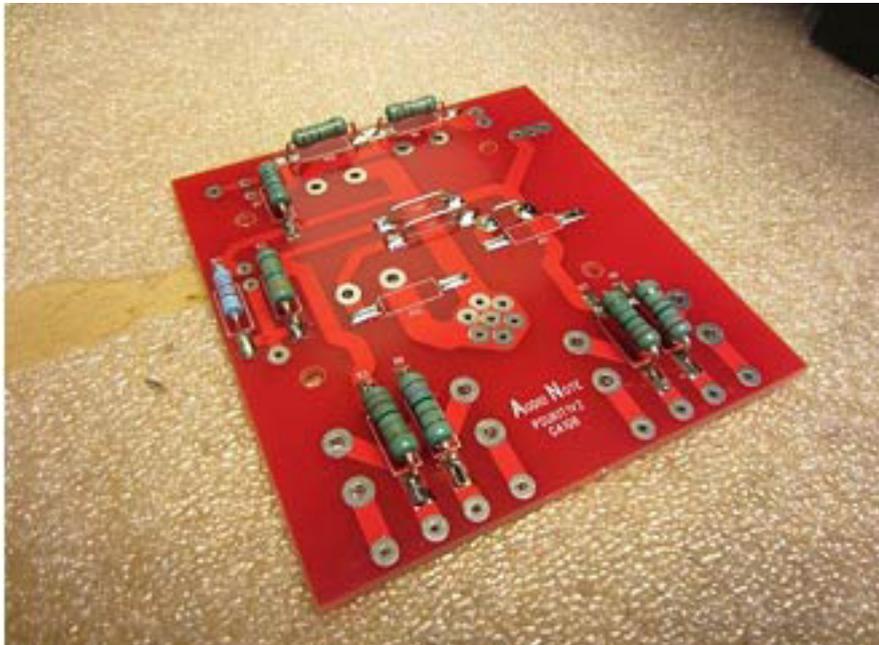


The resistors solders in position.
NOTE: R11 and R12 are empty.

4

Power Supply: *installing the resistors*

Now install the 3 Links as shown above.
NOTE: R11 and R12 are empty.



Here is a view of the completed Power Supply Board.

4

Power Supply: *installing the capacitors*

Now lets build the Power Supply Capacitor PCB.
Above you can see the completed board (except C4 disk).

Quantity	Position	Item	Value
1	C8	CAPACITOR +/-	450v 220uF
2	C12 C14	CAPACITOR +/-	450v 100uF
2	C11 C13	CAPACITOR +/-	450v 68uF
2	C1 C2	CAPACITOR +/-	400v 47uF
1	C9	CAPACITOR +/-	160v 10u
1	C4	CAPACITOR	.001uF KV

Note that the Electrolytic capacitors (all caps except C4) are polarized. The capacitors have a positive and negative side. The negative side has a STRIPE on it. You can see the stripes in the above pics.

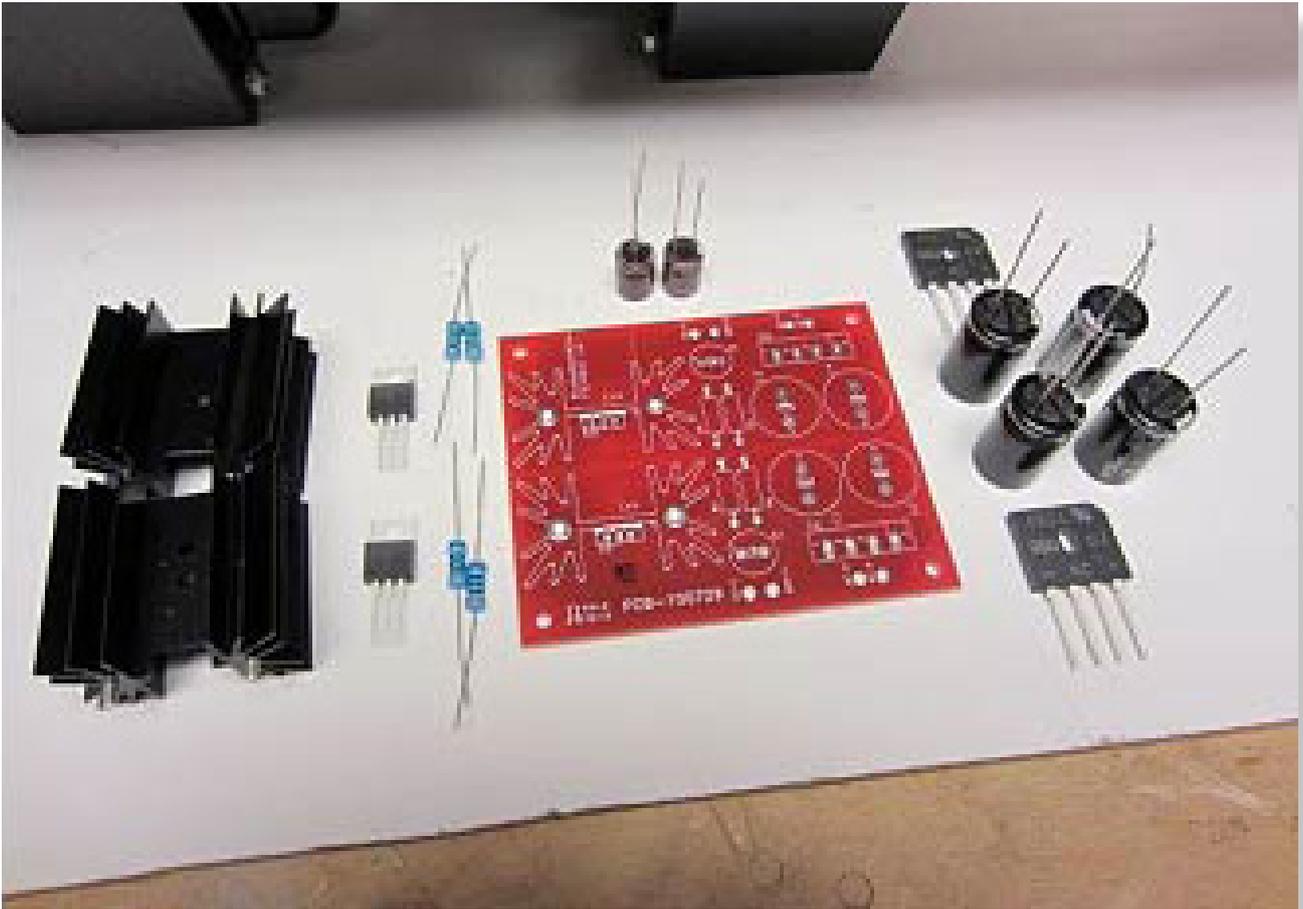
You will see the + on the PCB and you can orient with the stripe on the opposite side to the +

4

Power Supply: *installing the capacitors*

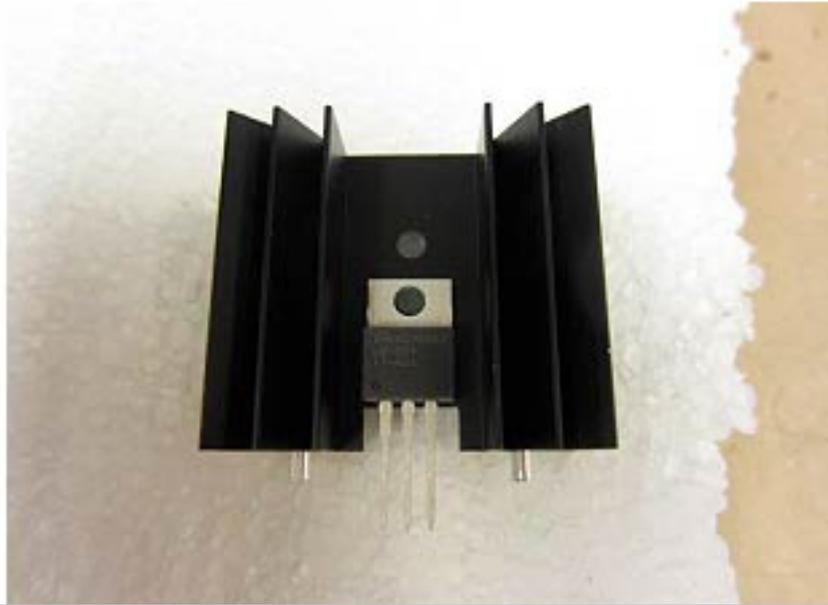
You can now 'position' the board on the screws! Don't screw it down yet as we will be doing some interwiring later.

This complete the power supply PCB build section. Well done!

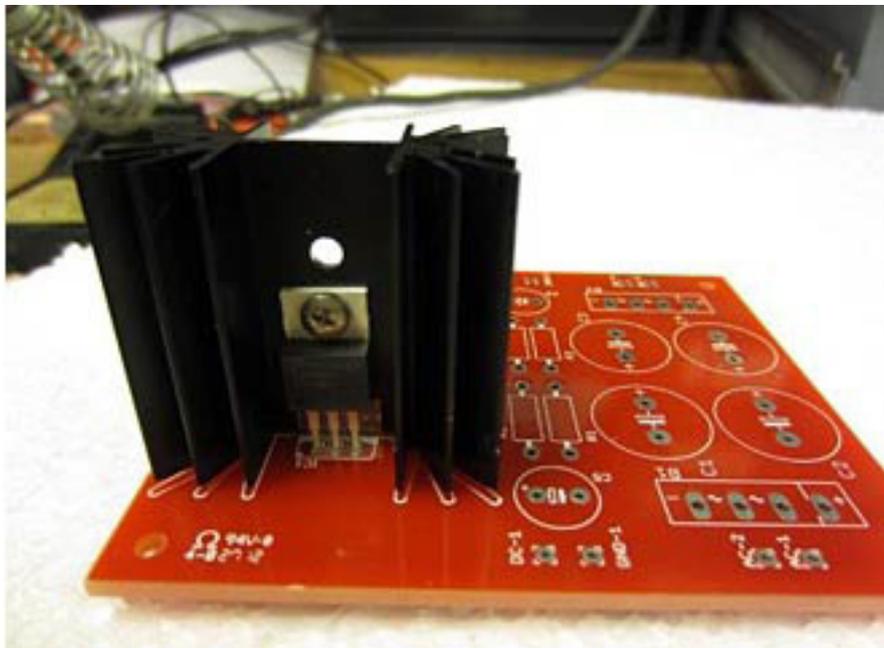


Above you can see the parts laid out for the FILAMENT PCB and below the parts list.
Note: The Heat Sinks on this board are mounted right onto the PCB and do not come in contact with the chassis.

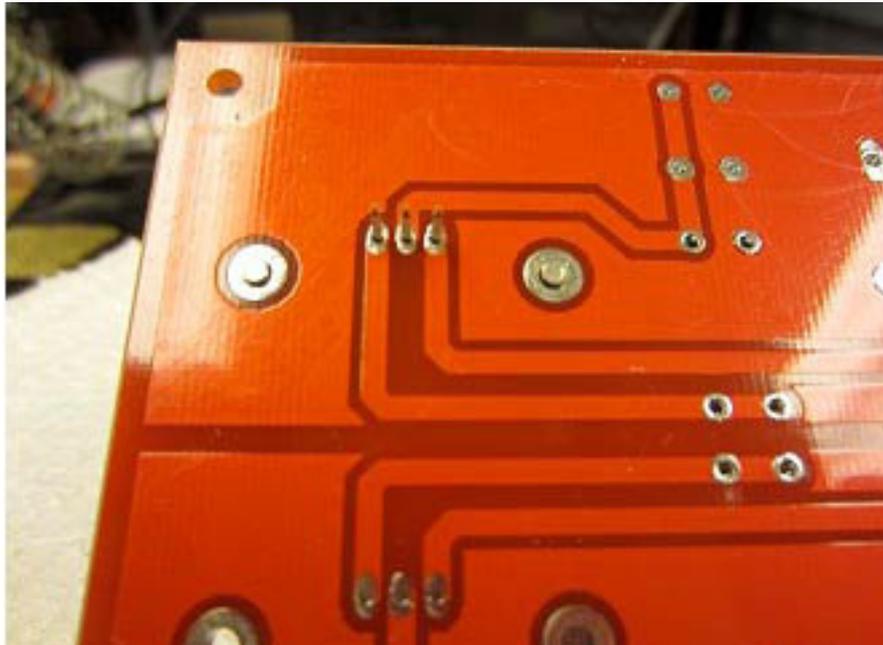
Quantity	Item	
1	New Filament PCB	
2	Black Heat Sink	
4	CAPACITOR	4700uF 16V
2	Bridge Rectifier	KBU6J
2	5V ADJ Regulator	LM1084 ADJ
2	300R	R1 R3
2	100R	R2 R4
2	470uf 16v	C5 C6



You can add heat sink compound if you wish on the regulator but it is not necessary.



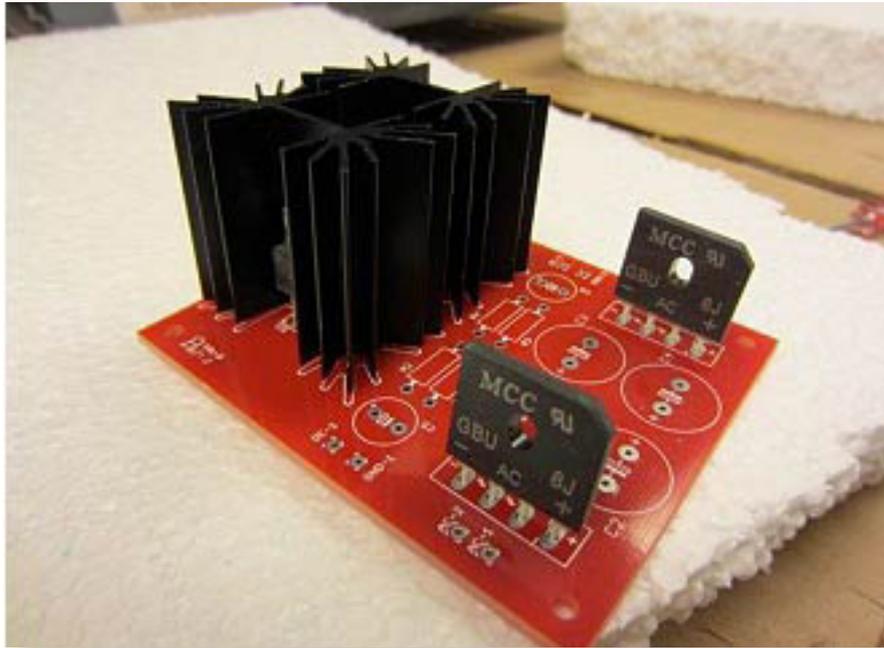
Loosely position the M3 screw into the heat sink such that you can get a screw driver on to it later when it is positioned on the board.



Once the heat sinks are mounted and you are able to get a screw to gently tighten the regulator chip to the heat sink, then you can solder the pins on the under side of the board. You will notice these pins are quite close together so be very careful to only use a tiny bit of solder to connect the pin to the board to ensure the pins do not contact each other.

HINT: You have three pins quite close together. Put your solder iron on the outer edge of one of the edge pins and add a little solder so you can solder this pin to PCB. Then do the same on the other pin on the other side. Now you have the two outside pins soldered correctly, for the middle pin we suggest you bring your soldering iron directly towards these center pins and add some solder from above. Your goal is to ensure the three pins are not in any way connected!

To be extra careful when you are finished soldering you can use an ohmmeter to measure that there is a resistance between the 3 pins. You will notice two large round soldered circles. You can touch some solder here or you can leave it unsoldered for now in case you need to change out the regulator. My suggestion would be to leave this unsoldered until the kit is working properly and then you can secure this later but its not mandatory.



The pic above shows the 2 Bridge rectifiers mounted correctly. Note the “cut-off” edge on the front of the Bridge which represents the + side of the bridge. You will notice the + on the PCB. Place the bridge rectifiers into position and then solder from the underside of the board.

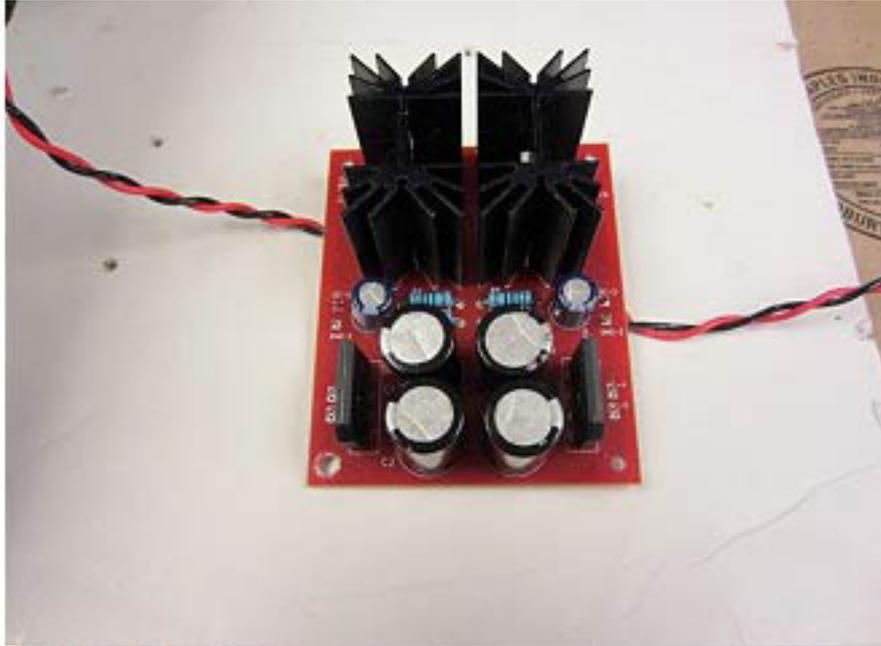
Next step to install the resistors!

2	100R	R2 R4
2	470uf 16v	C5 C6

The function of the resistors is each regulator needs a pair of resistors to set the output voltage at a ratio of 3:1 which sets the voltage to 5V DC

This is required to feed the 300B tube filaments.

Last thing to install are the two 470uf 16v caps located C5 C6.

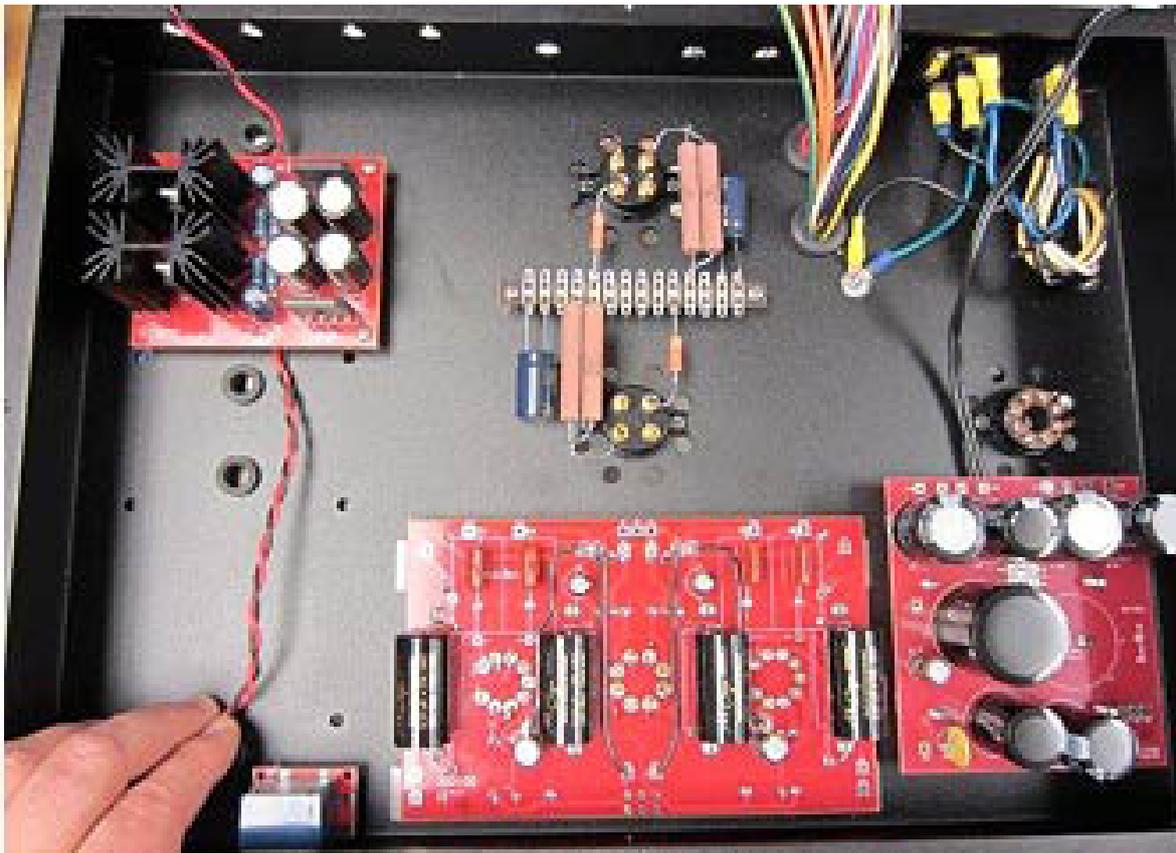
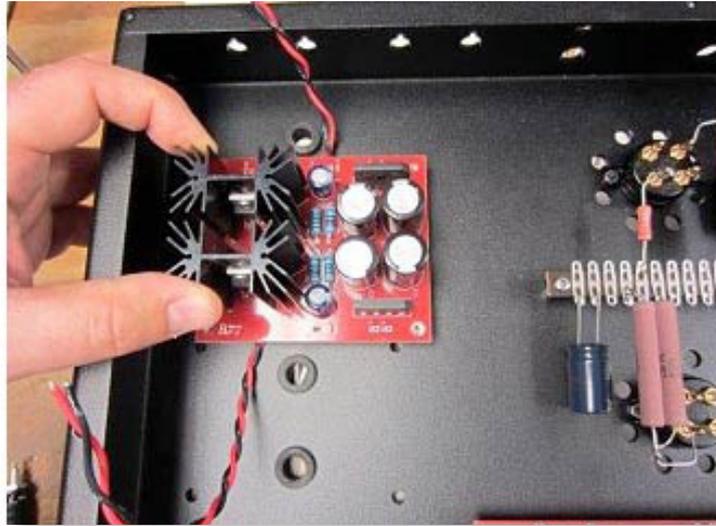


Once the resistors are installed then you can then install the 4 capacitors as shown here. Note the Negative stripe on the side of each cap and to orientate these correctly to the marking on the PCB.

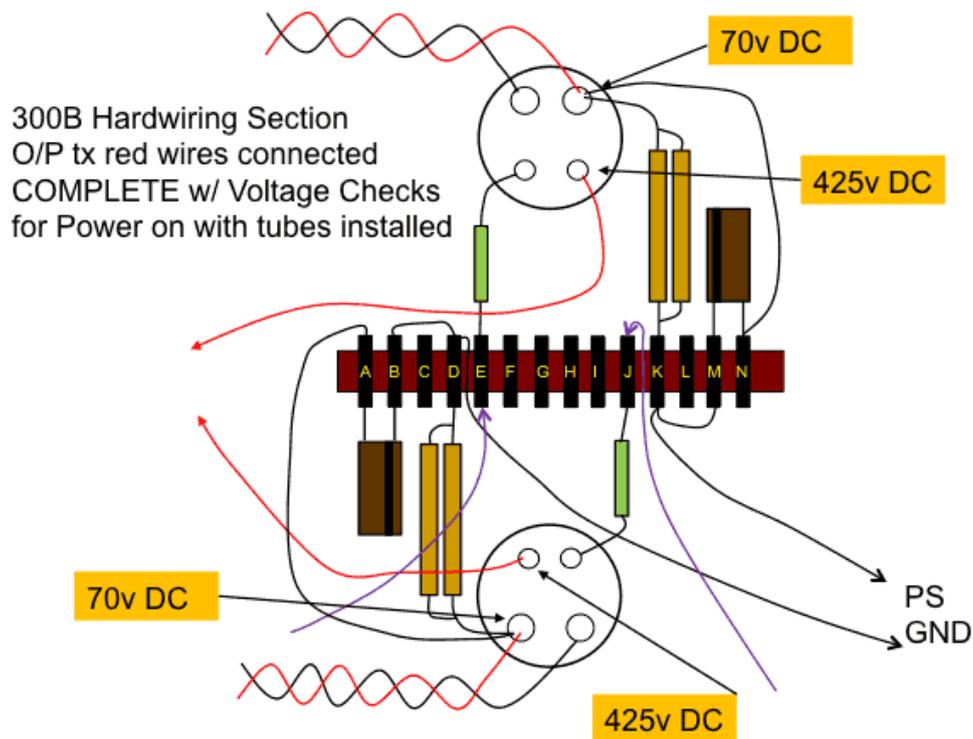
This pic does not show the completed board but adding the resistors and small caps will take care of that. Next install the two 10uf 160v caps located at C5 C6.

Position the Filament board onto the chassis - again you will not want to screw it down yet.

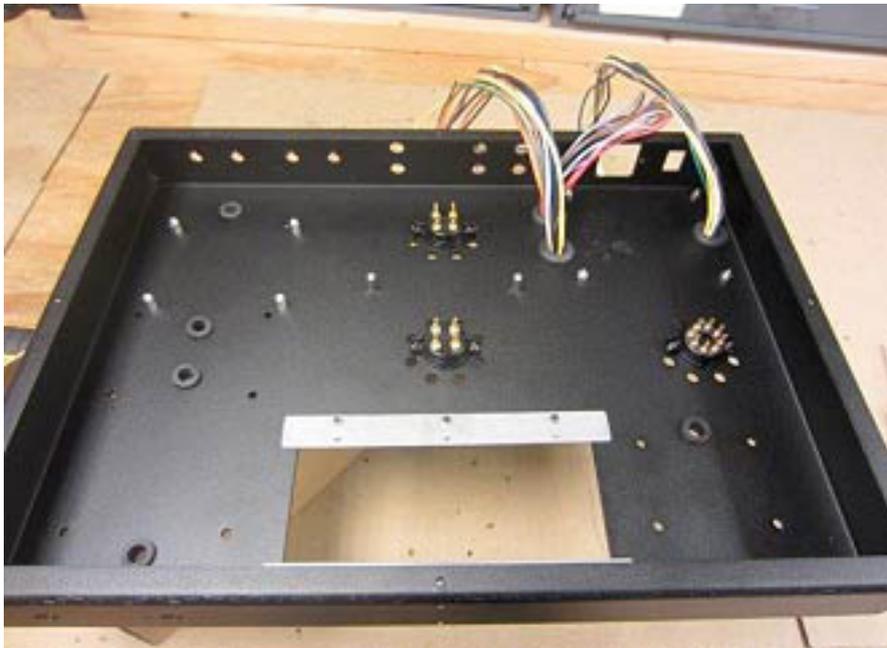
5

Filament section: *board placement*

Here's a look at the layout of the Kit1.
We have not started on the 300B section yet, that is next!



In this section we will perform the hard wiring around the 300B valve bases. The diagram above shows the overall operation we are going to perform.

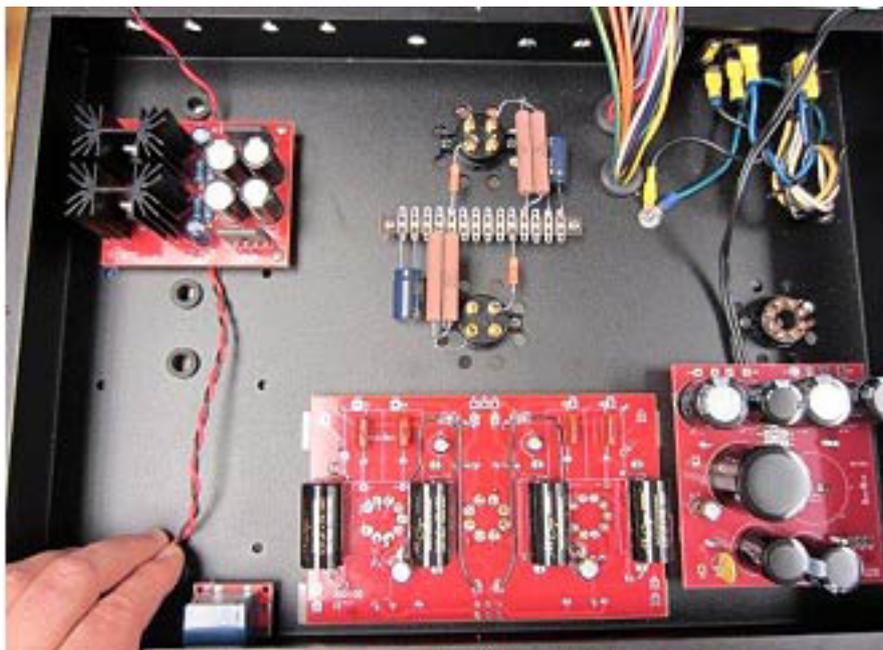


Here is the starting point of our chassis to perform the hardwiring job.

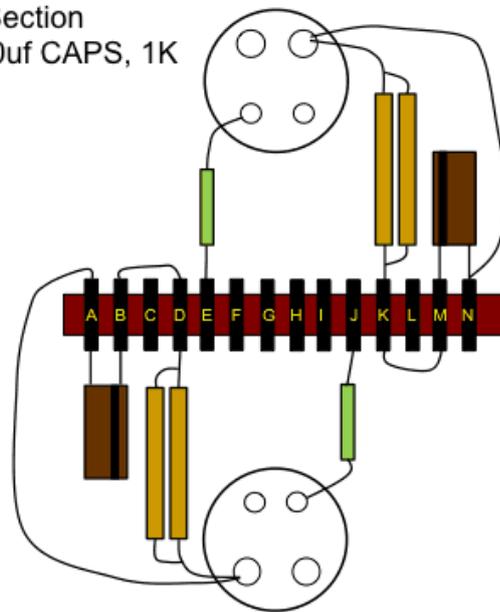


Just to double check. From the mechanical section that you completed earlier you installed the 300B valve bases. Verify that your bases look like the pic above with the larger pins closer to the edge of chassis and the small pins facing each other. Next step will be to install the tag strip between the two valve bases.

The pic below shows the completed section.



300B Hardwiring Section
 1K8 Resistors, 220uf CAPS, 1K
 Grid resistors



To aid building your Kit1 we have also included copies of all the interwiring graphics to a bigger size in our pdf document: [Kit1-8 Interwiring Manual](#). You can download it on the [Kit1 product page](#).

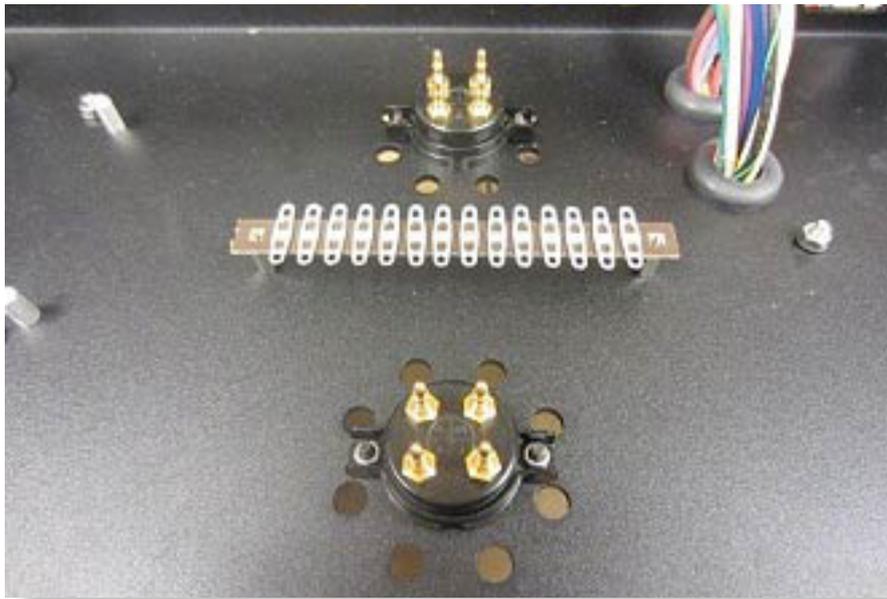
Above you can see the first graphic of the hardwiring section.

Notice there are 14 pins on the tag strip. You will want to take the provided tag strip and cut it such that there are 14 sections and then 1 on each end to secure to the chassis.

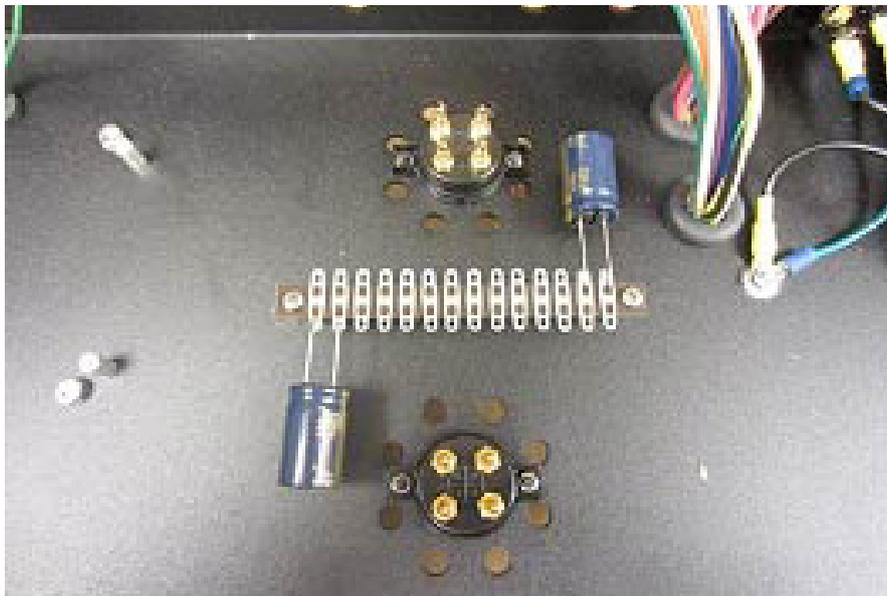
Be careful that the empty slots on the end where the M3 screw is attached to the hex valve base do not touch A or N.

The components required for this section are:
 2 x 3K3 1W grid resistors (green in pic).
 4 x 1K8 10W wirewound resistors (brown in pic).
 2 x 220uf 100v electrolytic capacitors.

Now lets go through it step by step!

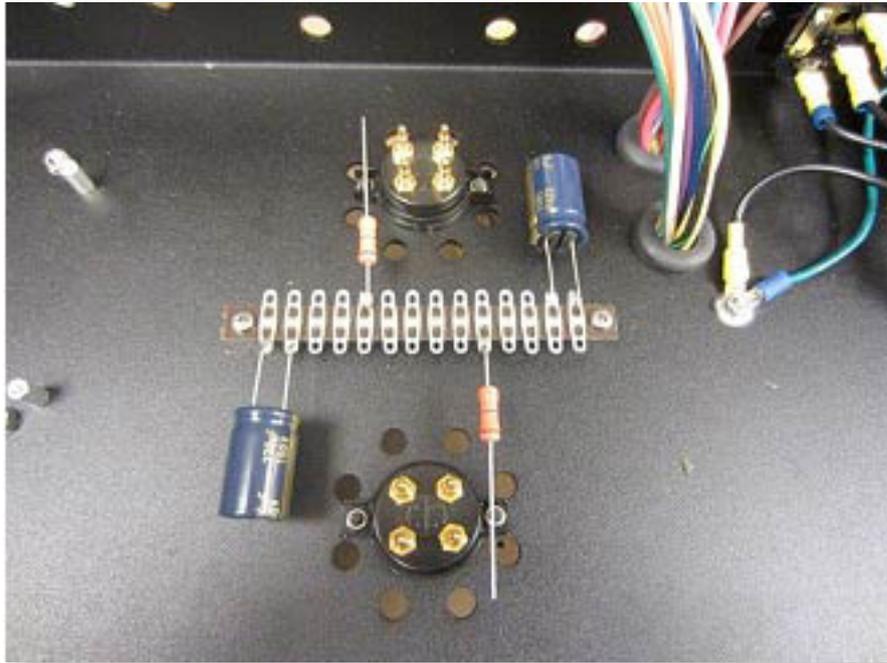


Take the Tag strip supplied and position over the hex standoffs as shown using an M3 6mm pan screw – secure the tag strip down to the stand off.

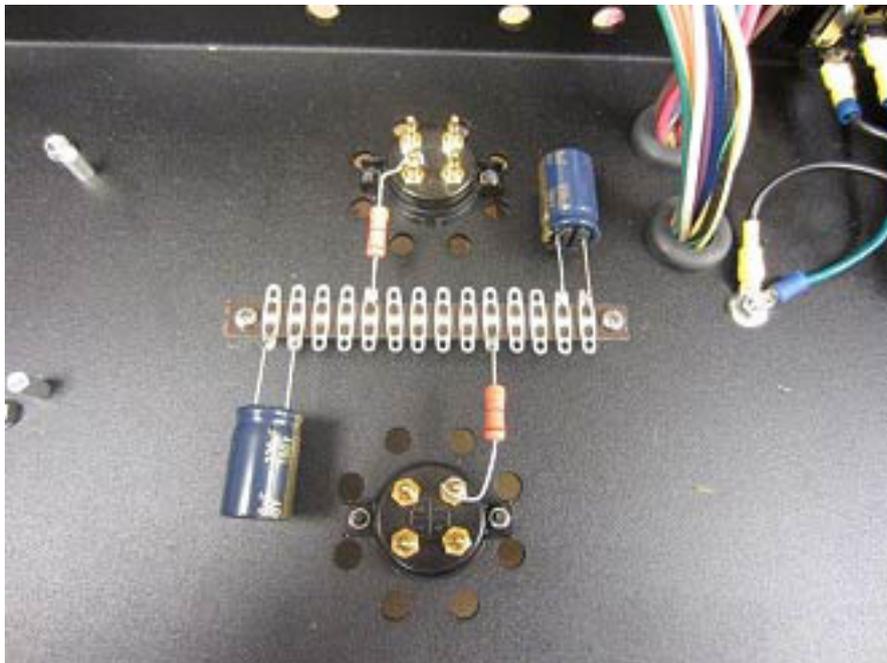


Refer to the graphic on the previous page to ensure that you are positioning the components as shown. The first step will be to solder the 2 x 220uf 100v electrolytic capacitors to the Tag strip.

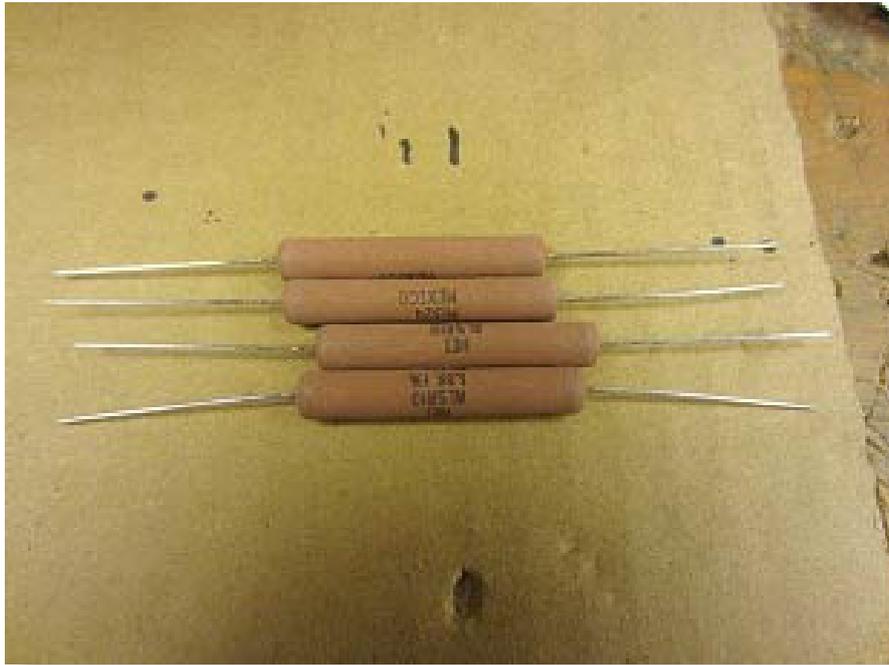
Note the positive side of the capacitor and the negative side with the STRIPE so that these caps are oriented correctly. You can see the stripes or negative side are the second tag in on the right and left.



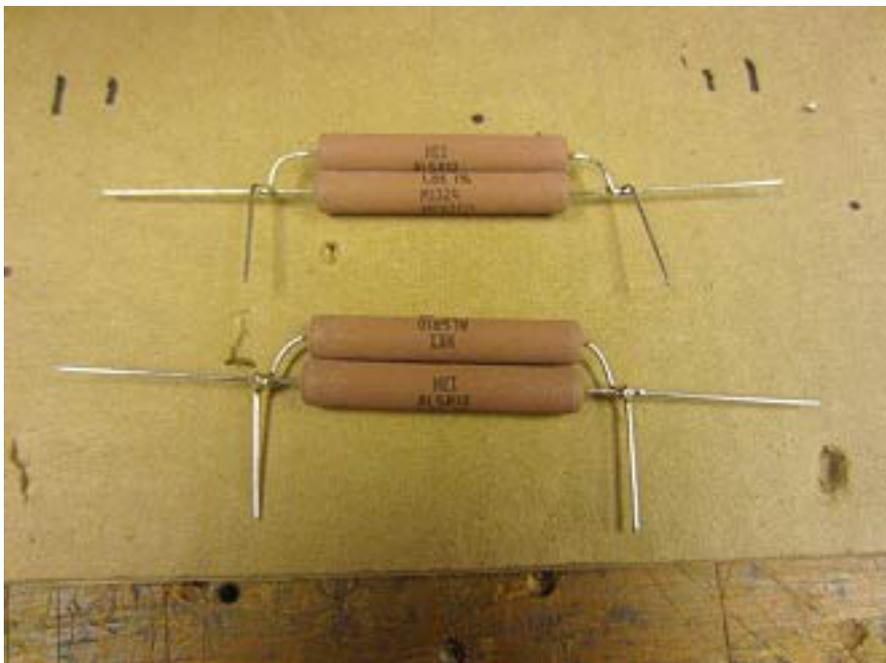
Now install the 3K3 resistors. These are connected to the fourth tags in from the right and the left. At this point use a small wrench to ensure all the nuts on the valve bases are tight. They should be already but just in case one should come loose.



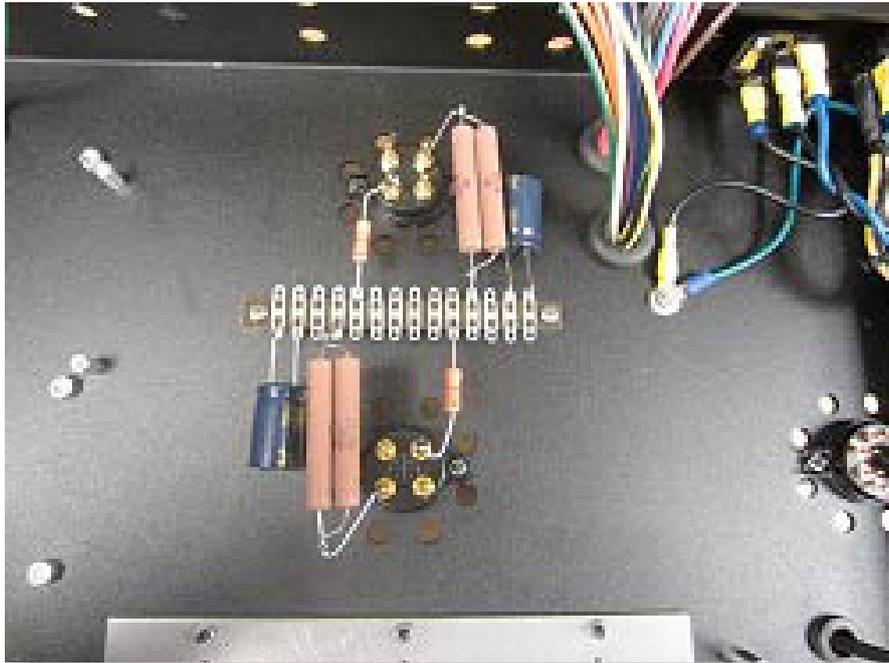
Next connect the resistors to the Grid pin of the 300B. You can curl the pin around the valve base and then applying solder to ensure the connection.



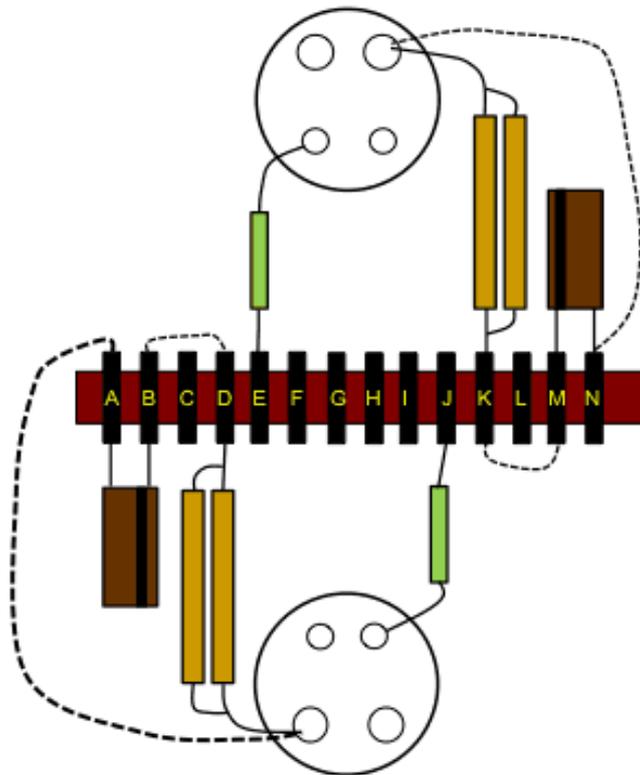
In this section we are going to take our 4 x 1K8 resistors and prepare them for installation on the tag strip. See above and below!



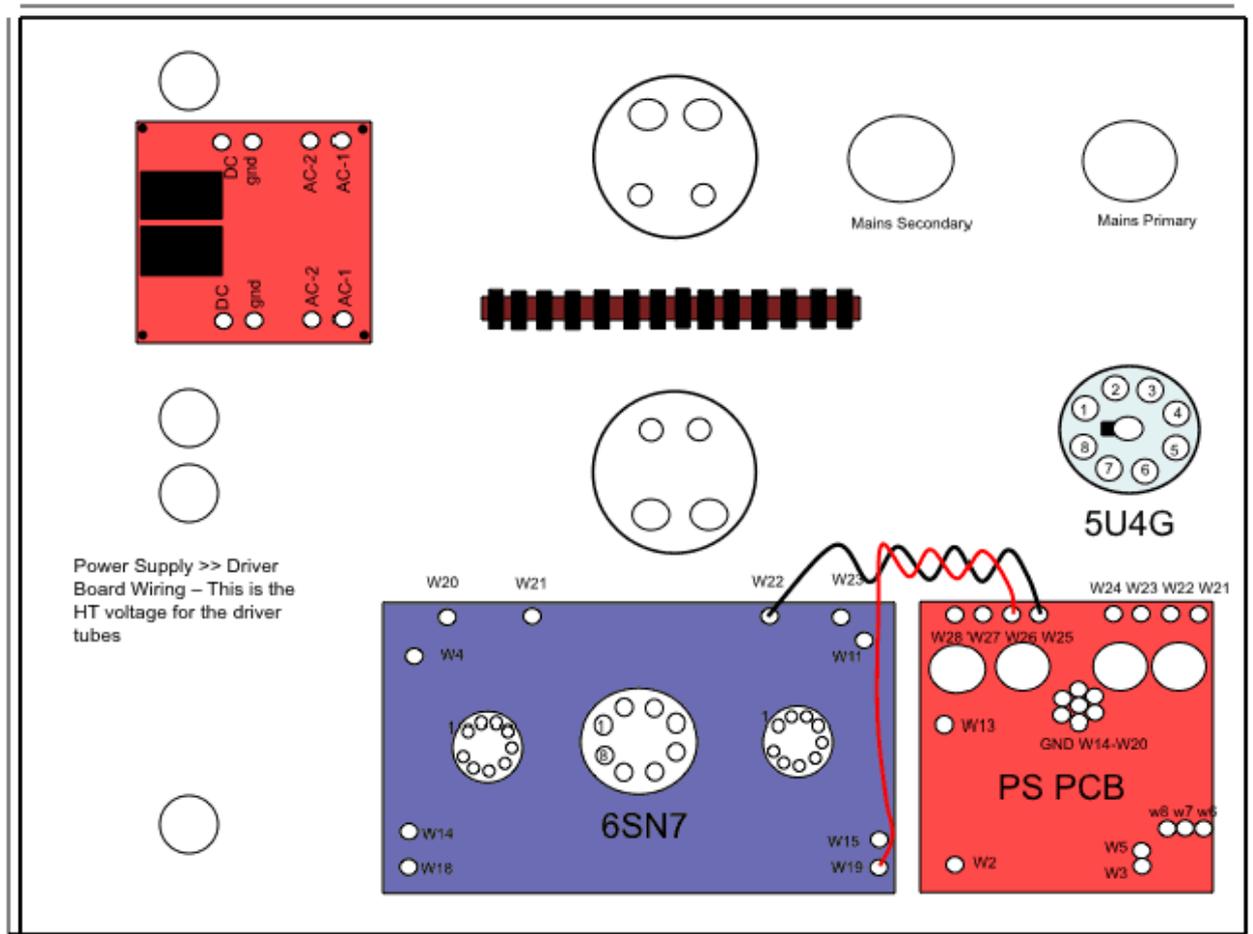
Wrap one resistor around the other as shown above and then apply some solder to connect the pair. Then clip off the leads of the unused leads.



Here you can see the resistors now soldered to the cathodes of the valve bases!. The next step is to add the wiring.



You need to add the dotted wires as indicated to complete the hardwiring section connection.



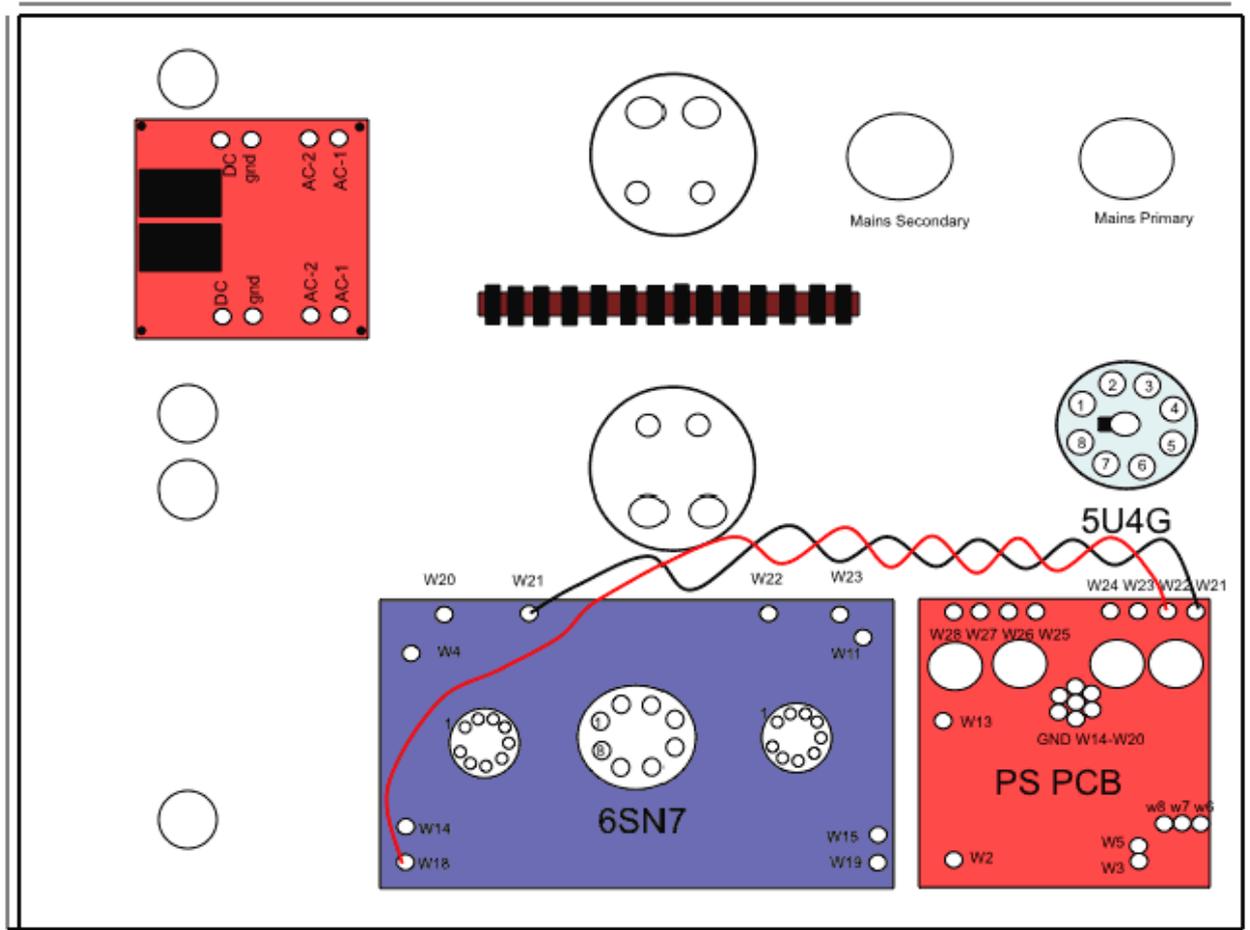
In this section we will be adding all the interwiring to the kit.
Follow through this section for step by step explanations!

To aid building your Kit1 we have also included copies of all the interwiring graphics to a bigger size in our pdf document: Kit1-8 Interwiring Manual. You can download it on the Kit1 product page.

The above diagram shows the view of the chassis as we are working on it.

6

Interwiring section

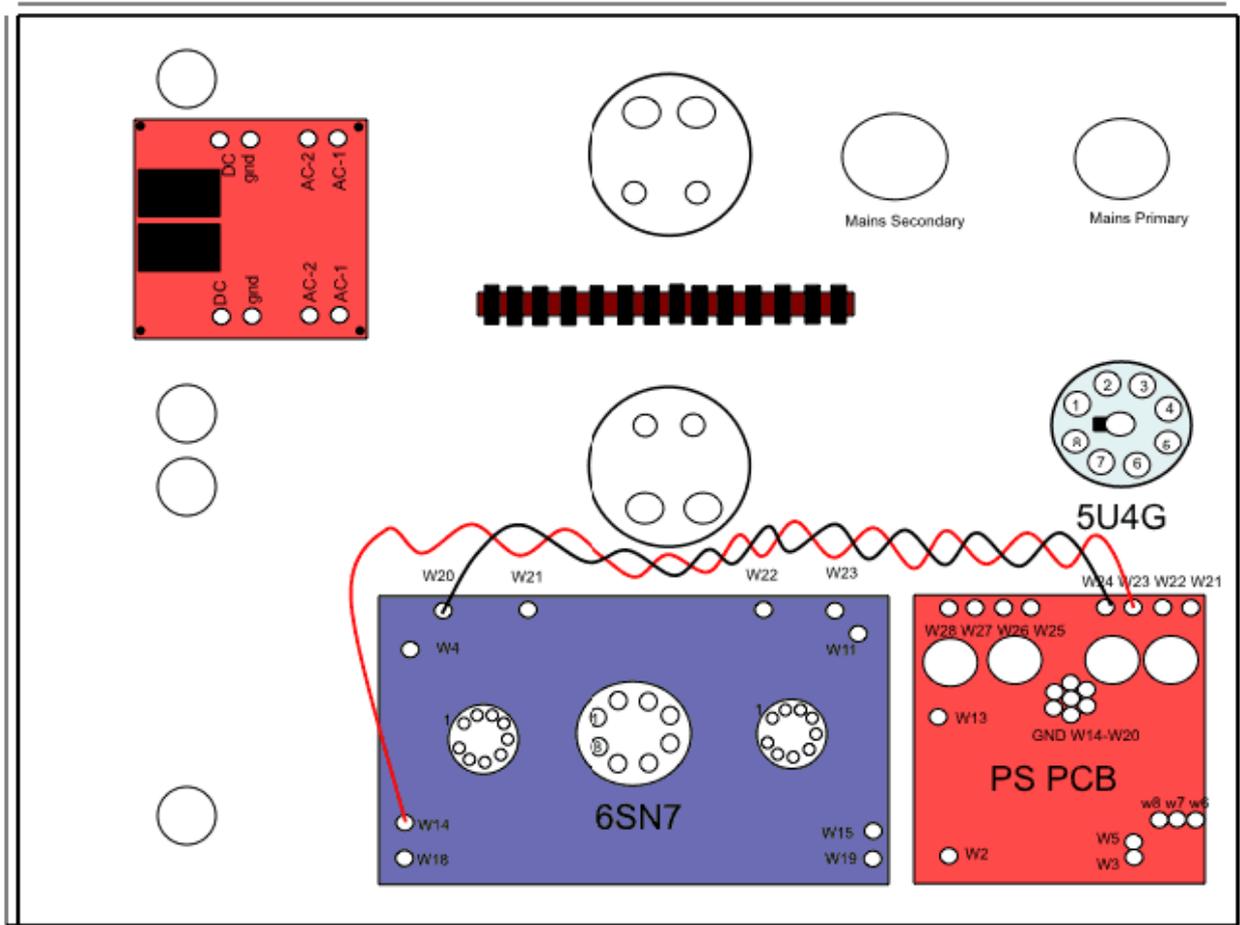


Take some of the 18g black and red Teflon twisted wire and connect from the power supply board to the Driver board.

Black wire W25 Power Supply Board >> W22 Driver Board
 Red Wire W26 Power Supply Board >> W19 Driver Board

6

Interwiring section

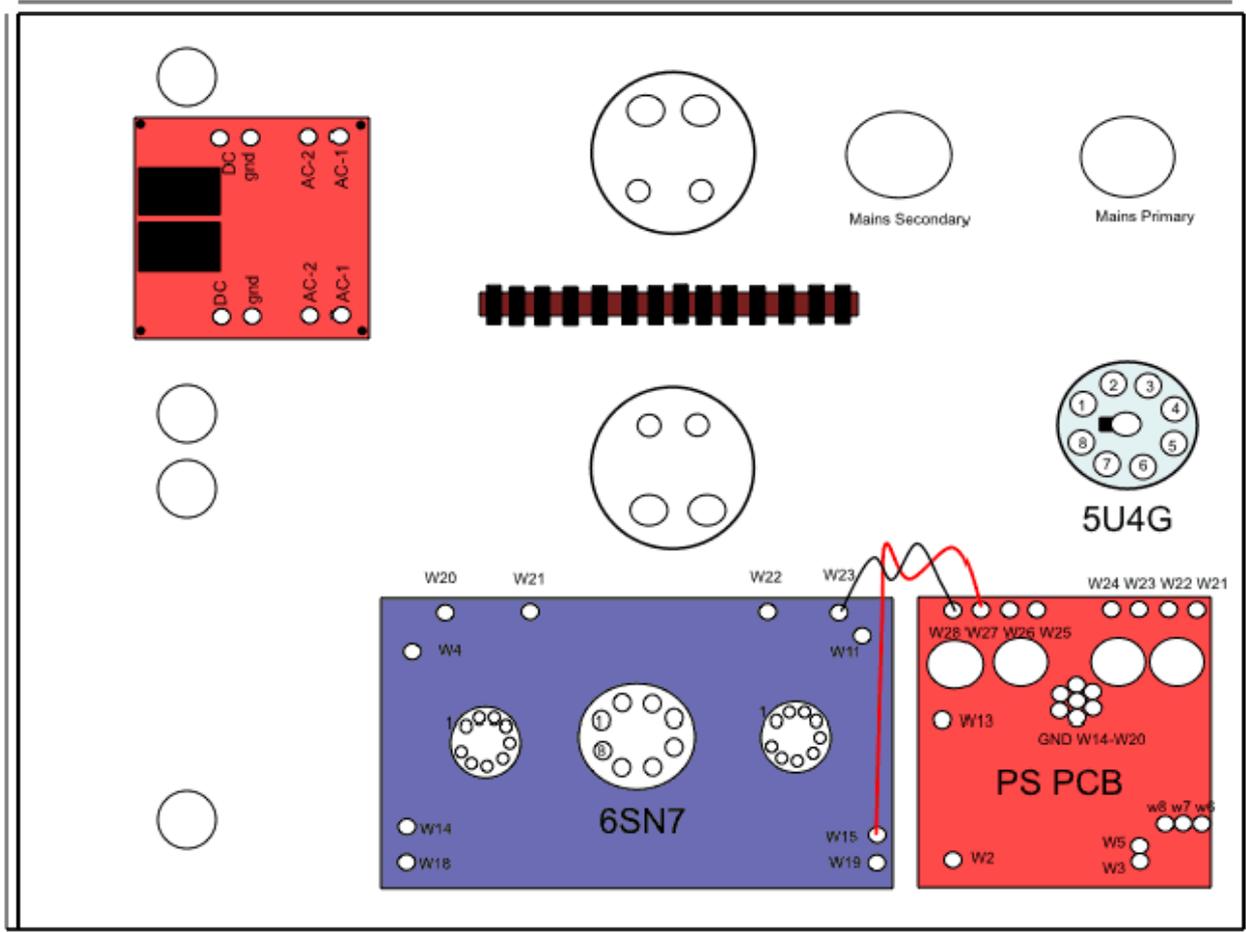


Take some of the 18g black and red Teflon twisted wire and connect from the power supply board to the Driver board.

Black wire W21 Power Supply Board >> W21 Driver Board
 Red Wire W22 Power Supply Board >> W18 Driver Board

6

Interwiring section

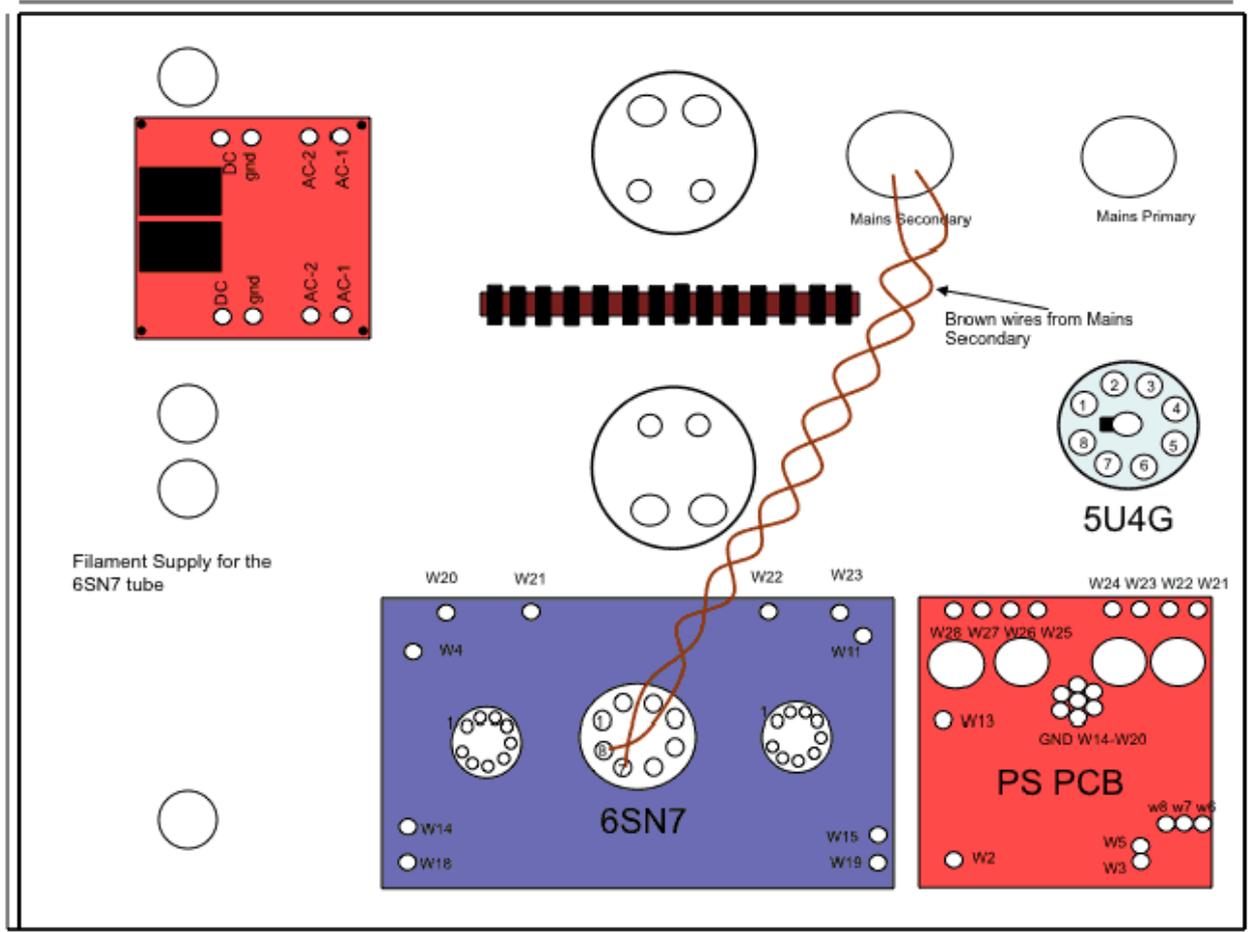


Take some of the 18g black and red Teflon twisted wire and connect from the power supply board to the Driver board.

Black wire W24 Power Supply Board >> W20 Driver Board
 Red Wire W23 Power Supply Board >> W14 Driver Board

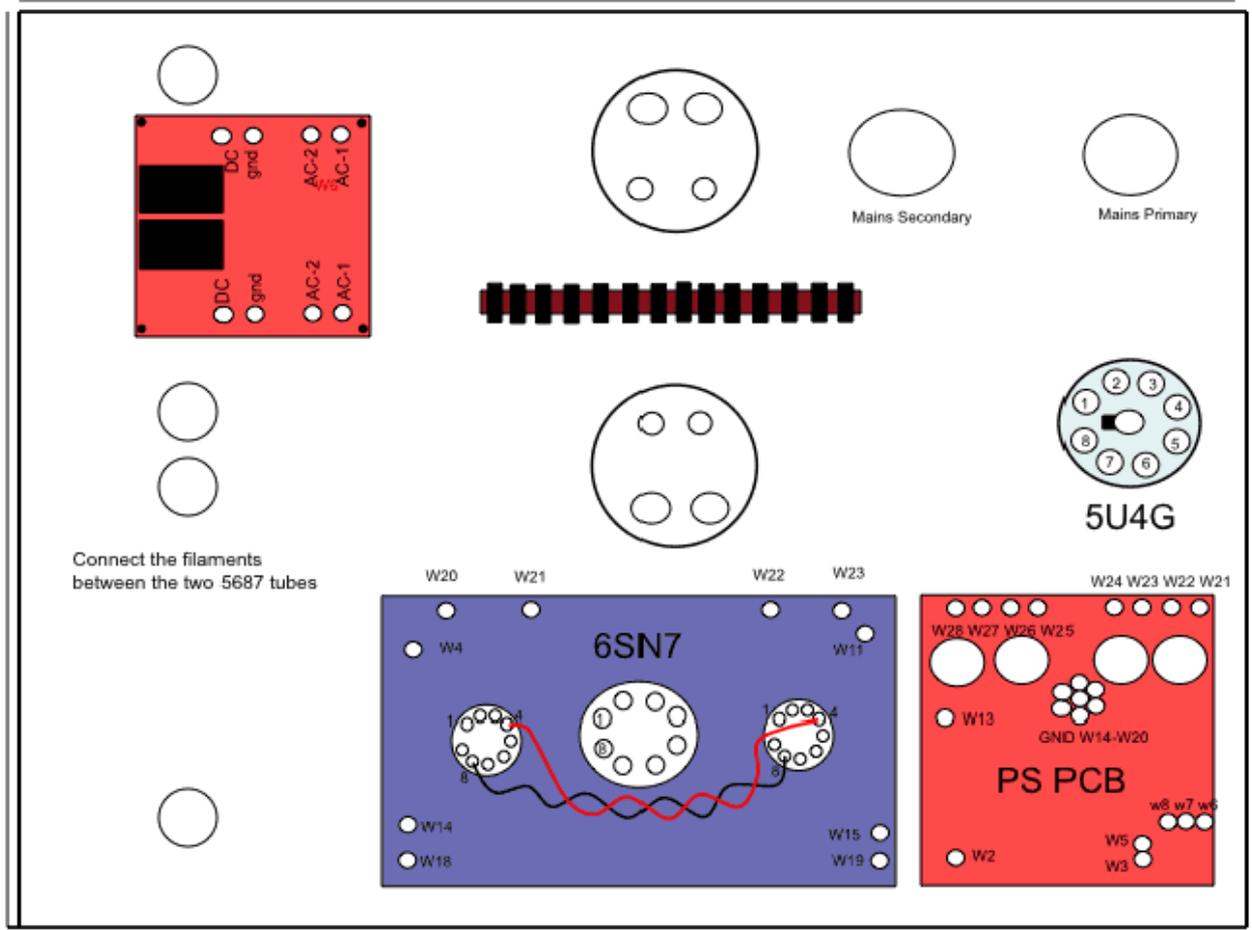
6

Interwiring section

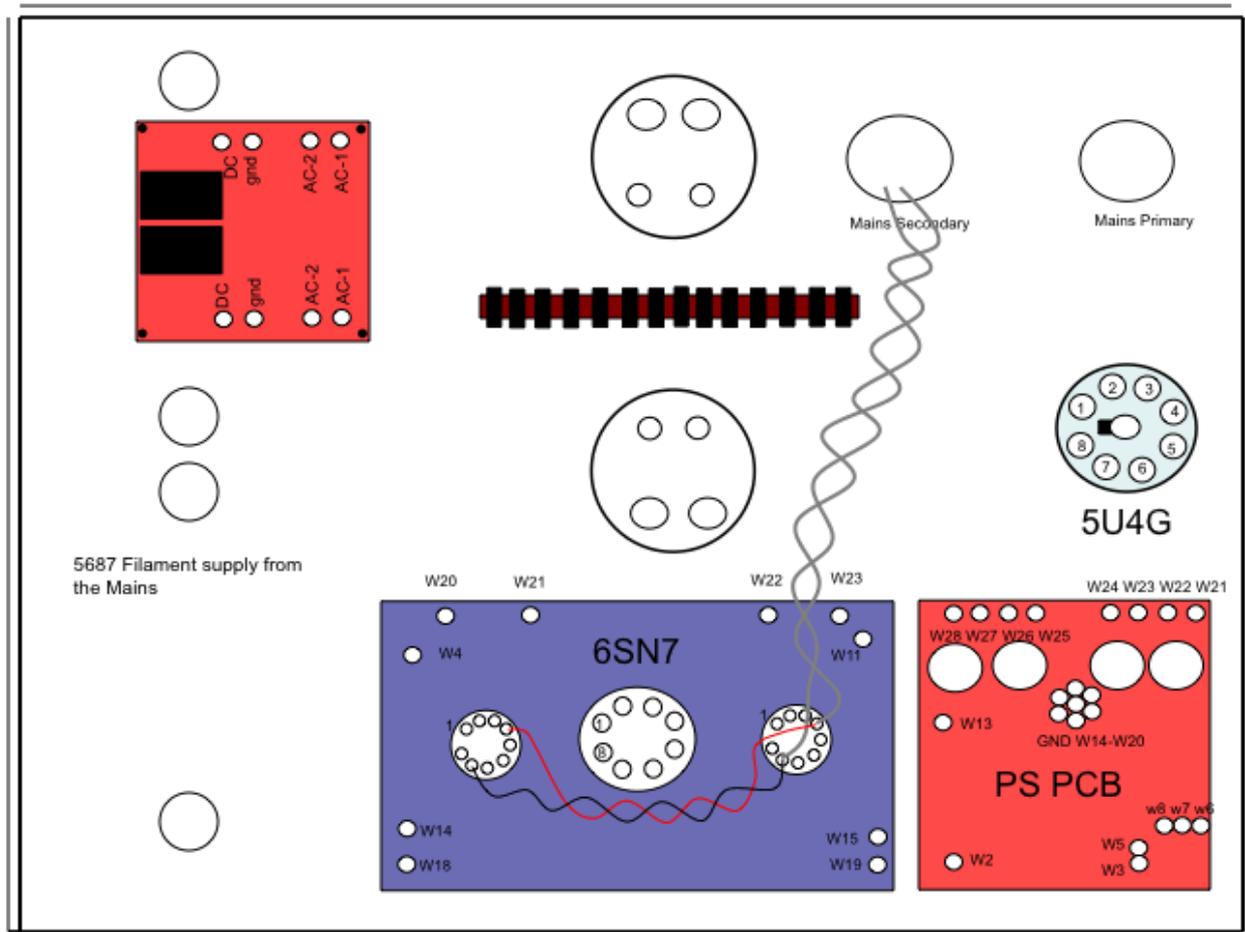


Take some of the 18g black and red Teflon twisted wire and connect from the power supply board to the Driver board.

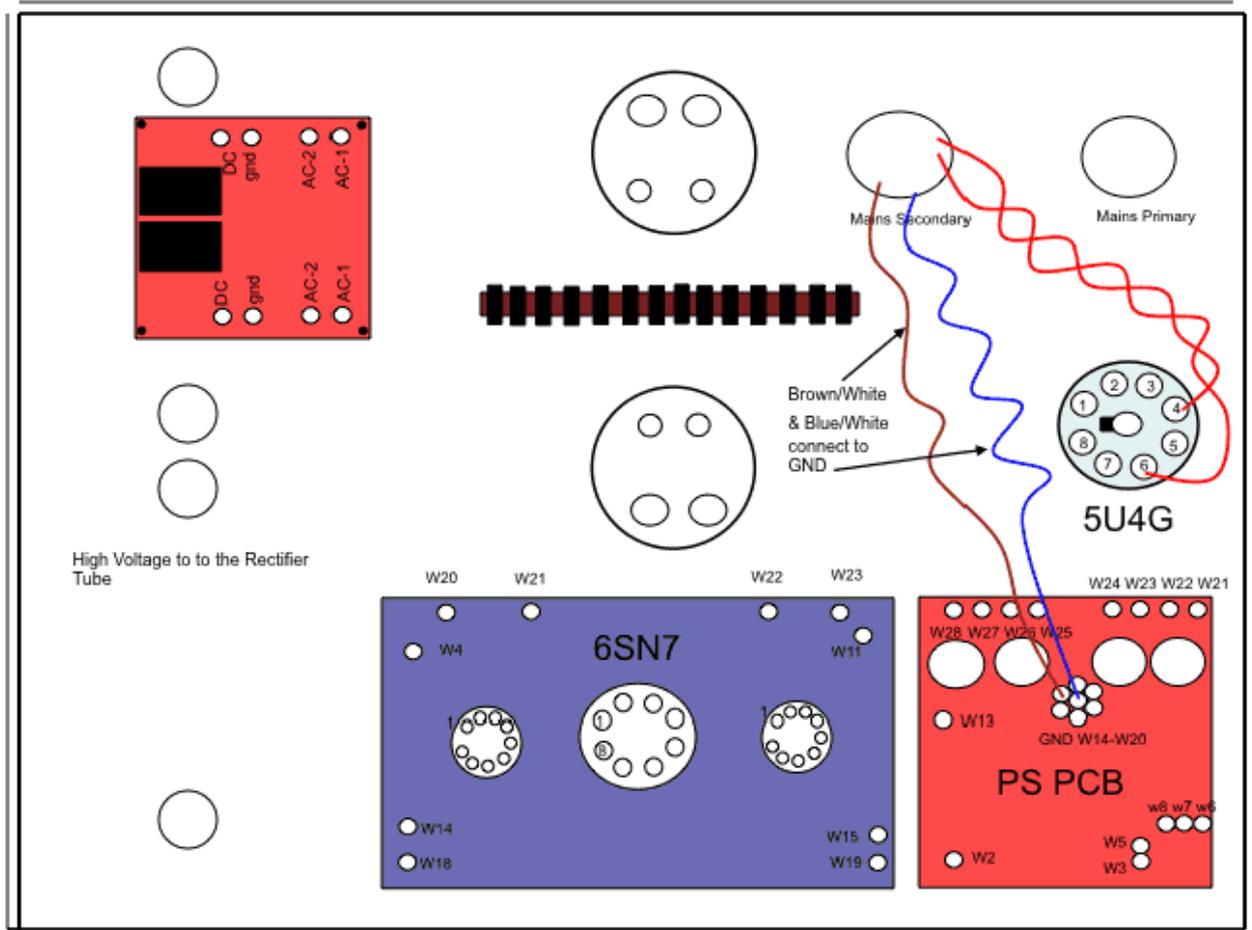
Black wire W28 Power Supply Board >> W23 Driver Board
 Red Wire W27 Power Supply Board >> W15 Driver Board



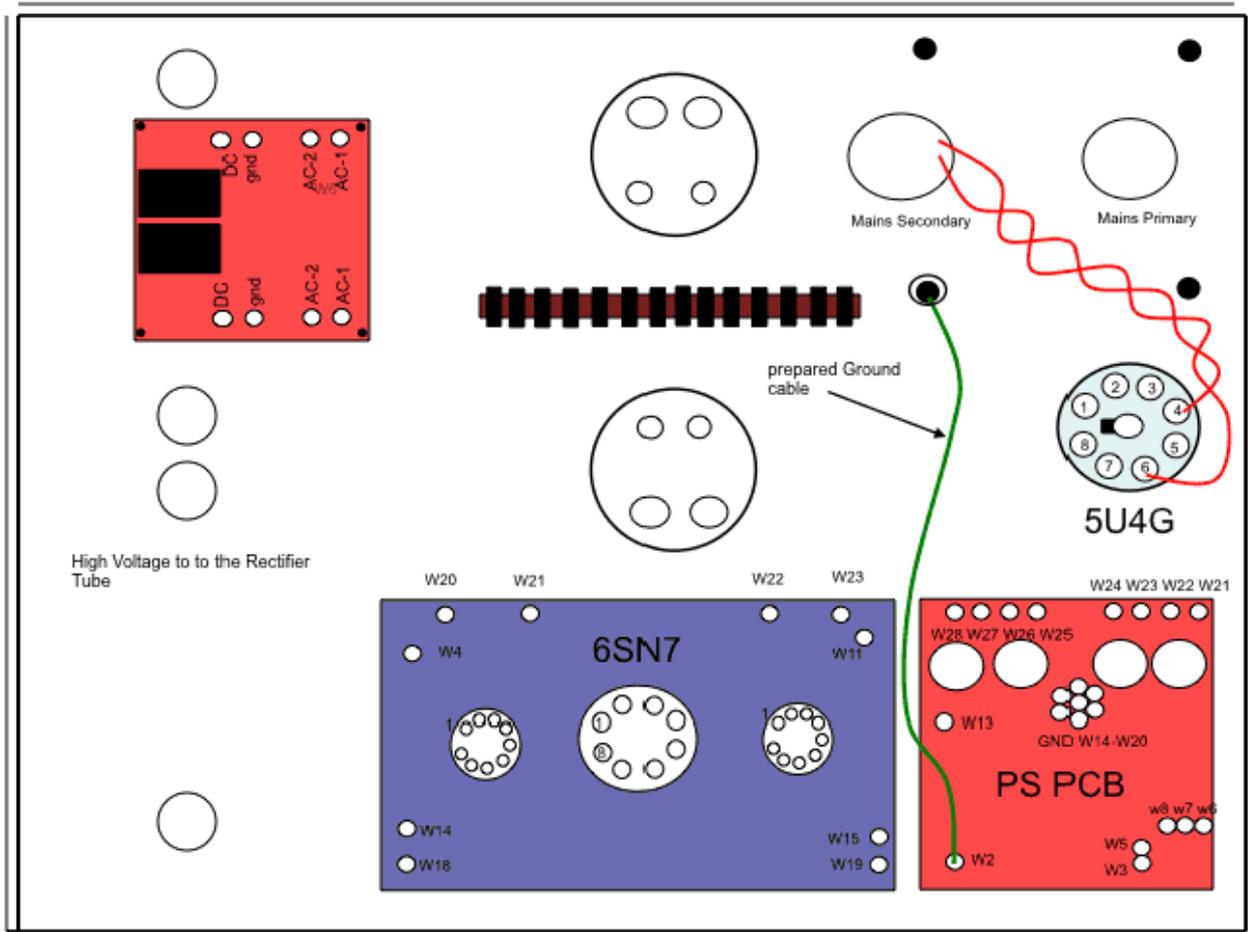
Connect the filament wires between the two 8 pin valve bases as shown.
So pins 4 & 8 connect to the other pins 4 & 8.



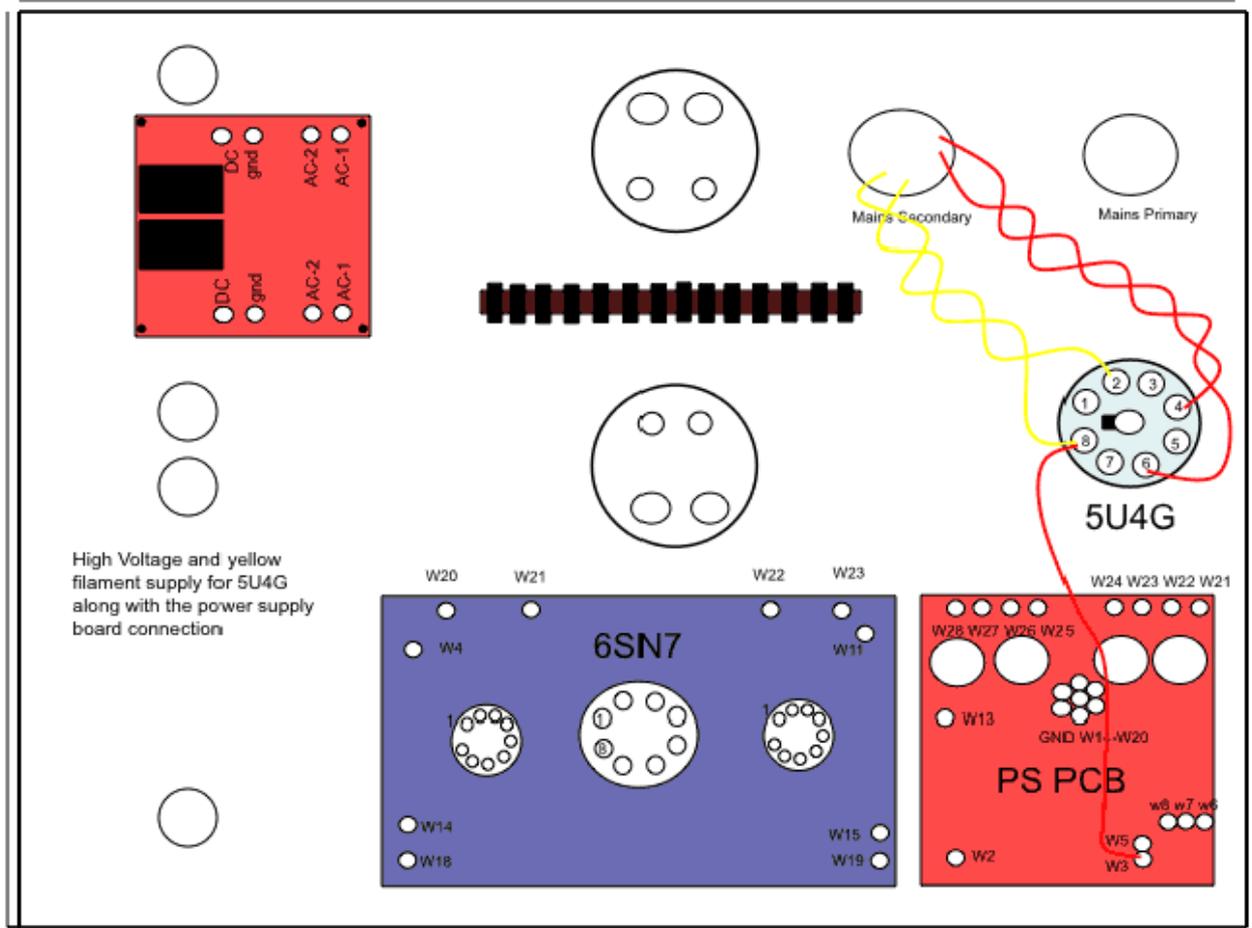
Now connect the grey wires from the Mains transformer secondary over to pins 4 & 8 of one of the 8 pin valve bases.



Connect the Brown wire from the Mains transformer and the Blue wire to any of the holes on the 7 hole GROUND pad in the center of the Power supply board.

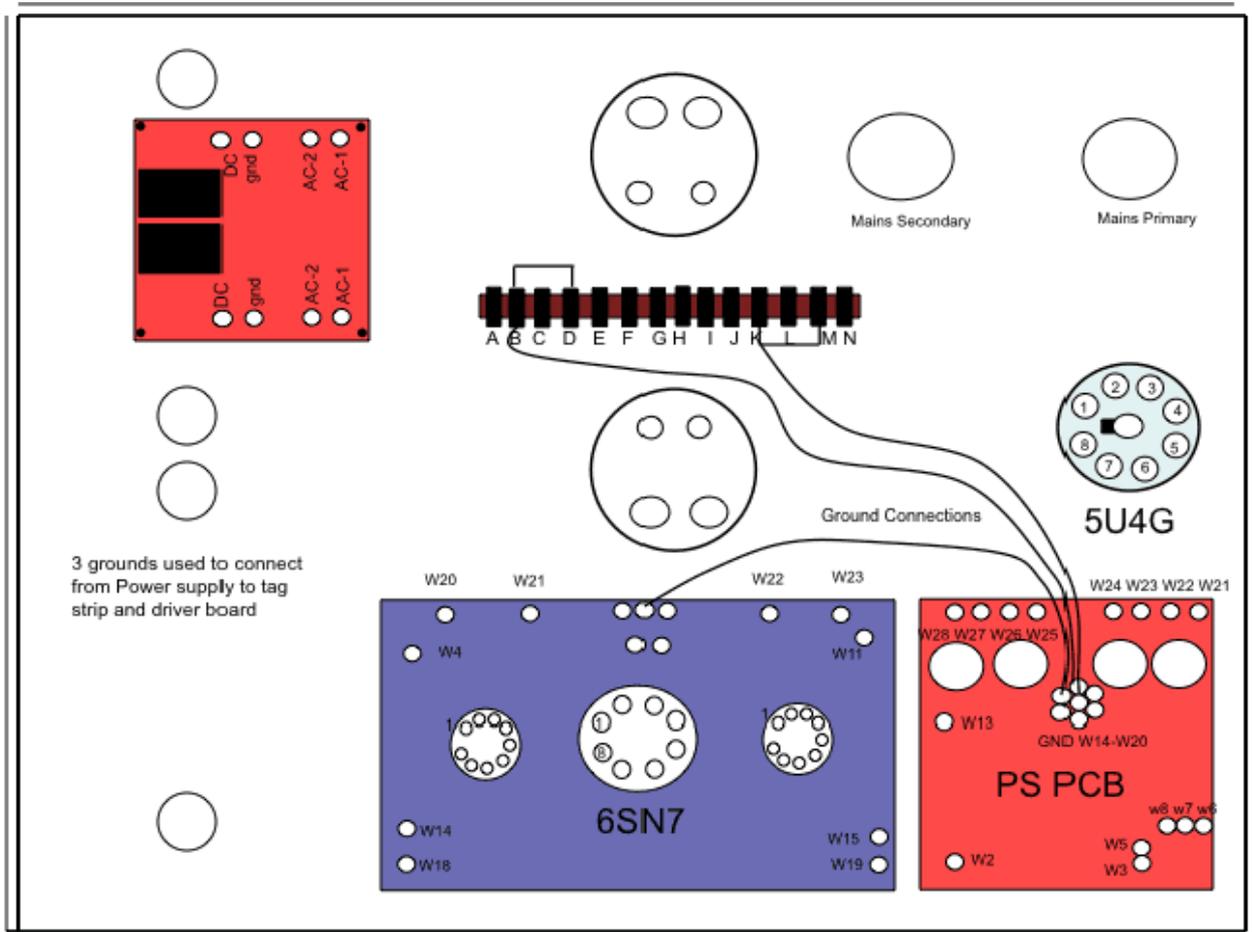


Take the prepared cable with the GND lug on it and connect between the Chassis ground screw and W2 on the power supply board.



Connect the yellow wires from the Mains secondary over to pins 2 & 8 of the 5U4G.

Also connect a wire from pin 8 to W3 on the Power supply board.

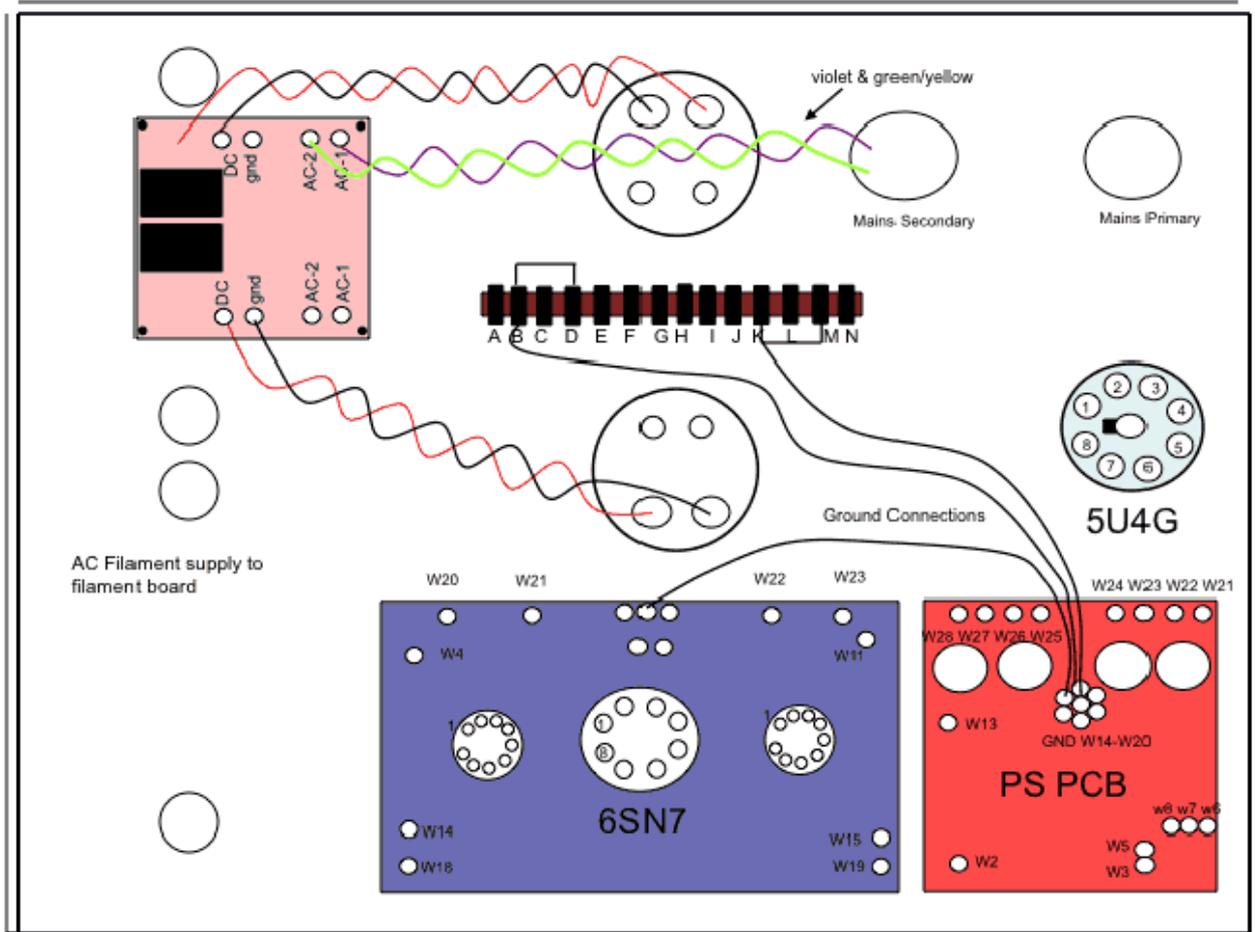


Now we are going to make the ground connections from the Power Supply Board to the 300B Hardwiring TAG strip section.
Take some black 18G wire and connect from the GROUND PAD in the center of the power supply board.

1. Connect from the ground pad on PS PCB to the DRIVER BOARD W2 (w1 w2 w3 are all connected and are all grounds).
2. Connect from the ground pad on PS PCB to "B" on the tag strip and also ensure the B > D are connected.
3. Connect from the ground pad on PS PCB to "K" on the tag strip and also ensure K > M are connected.

6

Interwiring section



Now lets connect the violet and green/yellow wire from the Mains transformer over to the FILAMENT Board. The filament board is divided into two identical halves both performing the identical function of taking 7v AC from the Mains transformer secondaries and converting to 5V DC.

Violet Wire >> AC-1

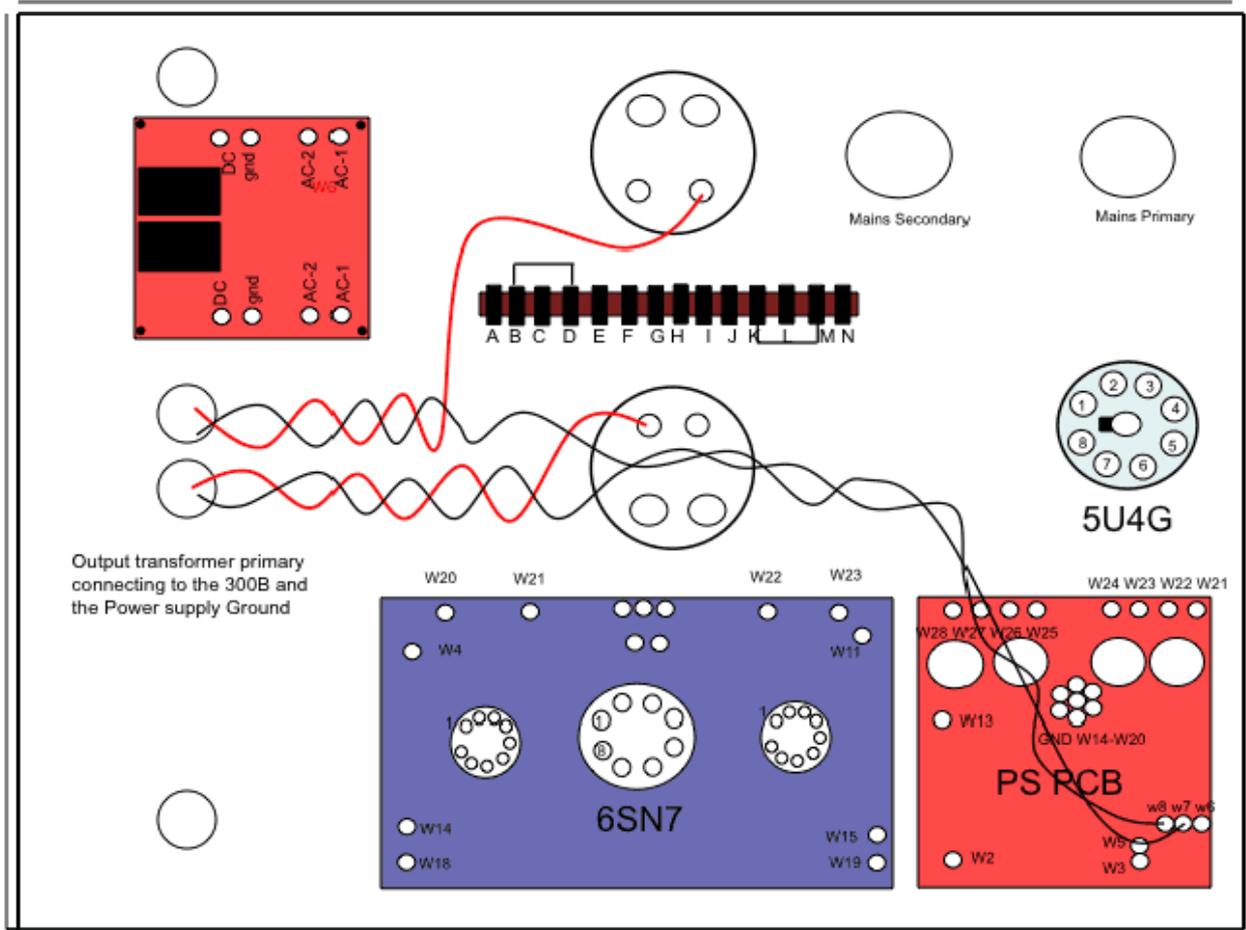
Green/Yellow Wire >> AC-2

It's on the next page but lets also connect:

Blue Wire >> AC-1

Black Wire >> AC-2

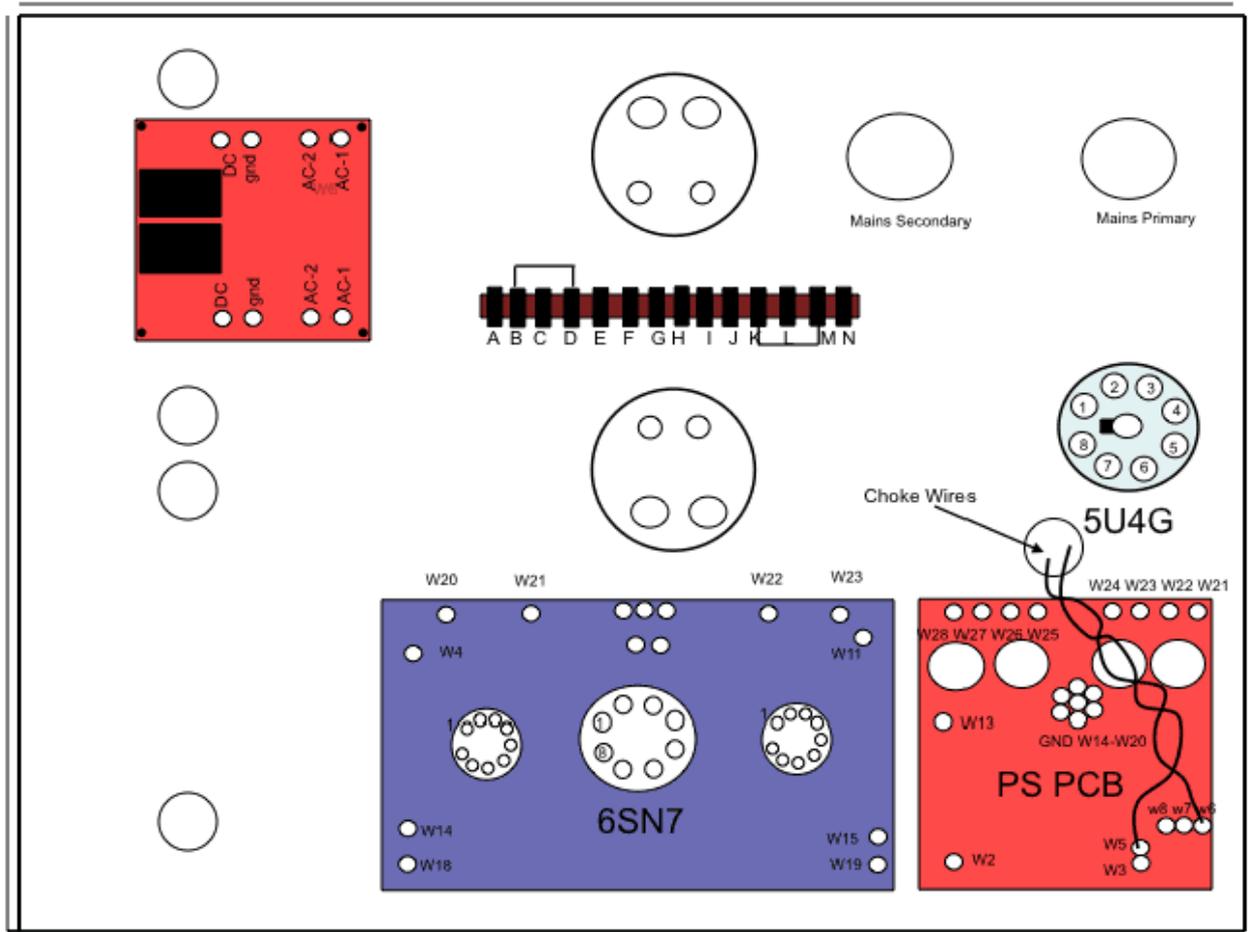
With that completed let's move on to the outputs of the Filament board. And you can see from this slide you want to take the red 18g twisted wire from DC on the filament board and connect to the correct Filament pin on the 4 pin 300B valve base. Then do the same for the Black wire from GND on the filament board.



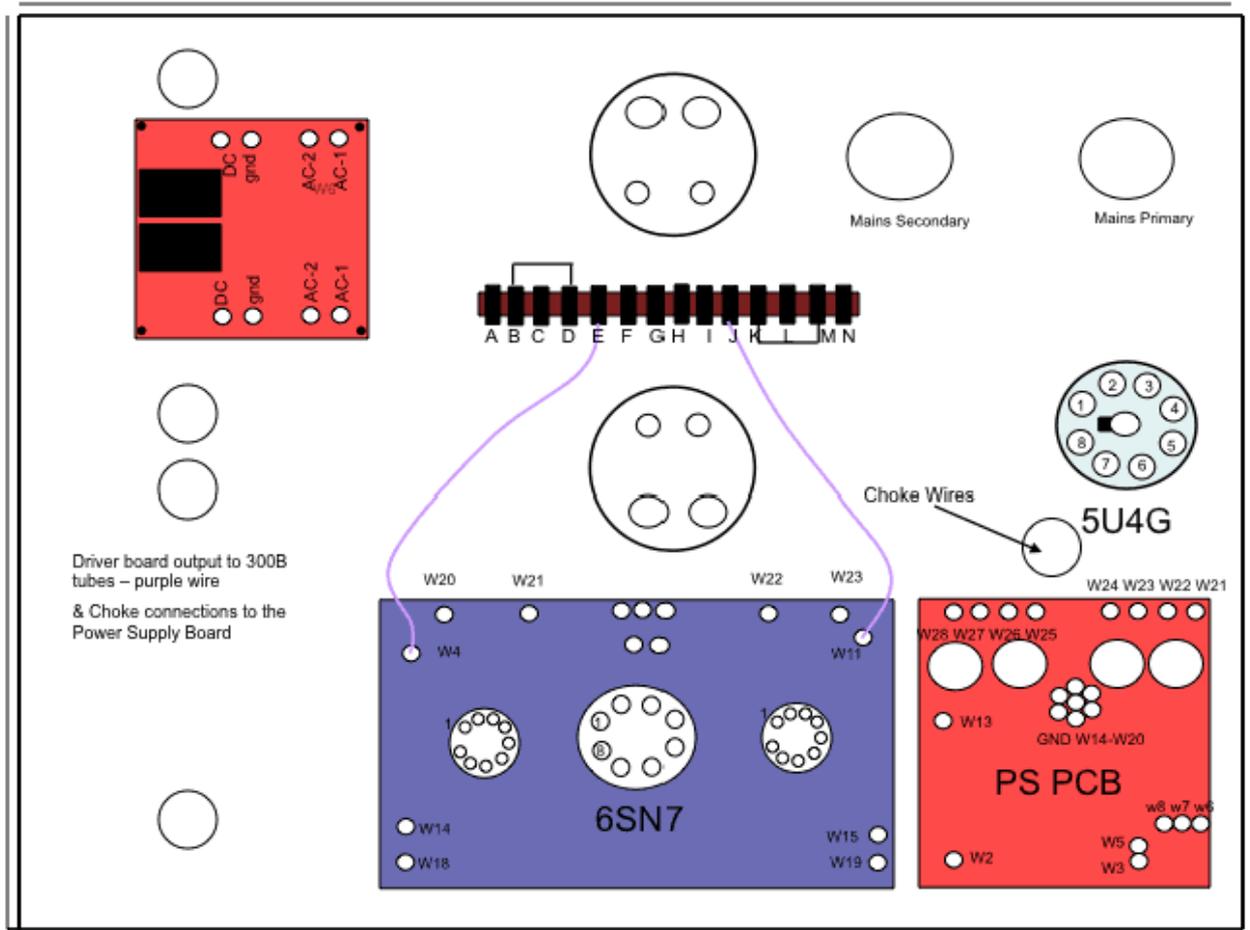
With the inputs and outputs of the filament board completed then lets move on to the output transformers.

The secondaries of both output transformers will be used in this section. Take the red wires and connect to the 4 pin valve bases as shown in the above graphic.

Now take the black wires and if you can stretch them over to connect to pins W7 & W8 you are all set. If you need to extend these wires you can do that but it may not be necessary.



Now connect up the CHOKE. Take the two black wires – you don't actually need to twist these (in fact I would leave them untwisted) and connect these to W5 and W6. It does not matter which black wire goes to which.



Now connect the output signal from the Driver board to the 300B tag section.
We can use the purple 22G PTFE wire.

W11 on driver board connects to J
W4 on driver board connects to E



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