

Power Switch PCB Assembly

Wall of Sound.ca DIY all tube phono preamp project

Tools required:

A selection of screw drivers and pliers

A small vise, though not necessary, will help.

A felt tipped marker or two

Alcohol (methyl hydrate)

Some Q-Tips and paper towels

A few tooth picks

Wire strippers, the ones shown below that I got on Amazon work OK



A soldering iron, preferably temperature controlled. The Hako knock-off from Parts Connexion seems to work OK and is not expensive.



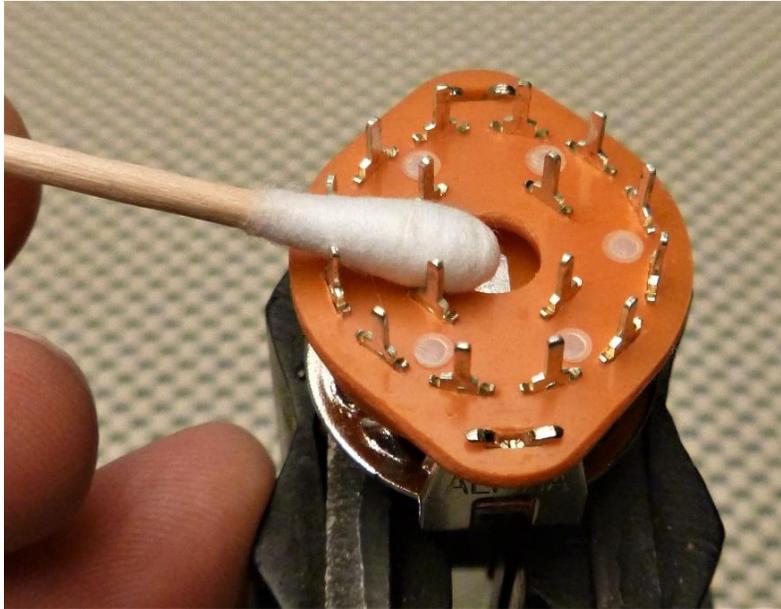
A digital multimeter. An expensive Fluke or similar is not necessary. Something for about 20 to 40 bucks from a hardware or automotive supply store should suffice.



Power supply board assembly:

Wipe both sides of the board with an alcohol moistened piece of paper towel.

Moisten a Q-Tip with alcohol and wipe the pins of the switch.



Position the board so that the switch side designation is seen, see below. Also note the "TANG" marking on the board.



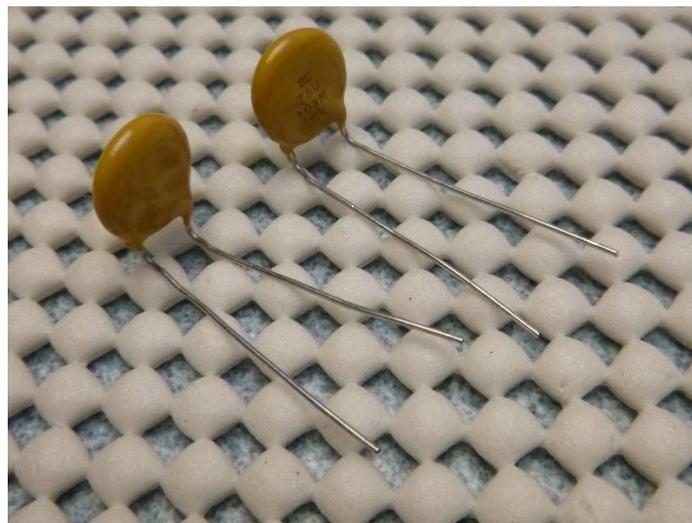
Assemble the switch to the board with the locating "TANG" on the switch positioned as shown.



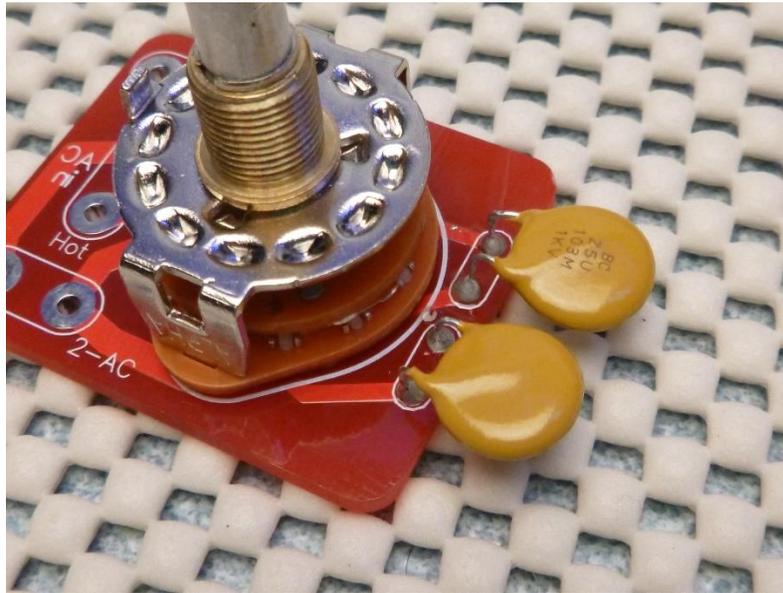
Solder the switch to the board. All of the holes on the Tubecad boards are plated through. Meaning, that if there are traces or pads on both sides (there usually is) there is copper connecting them through the holes. But very occasionally the plating through will be missed.

What I like to do, as much as possible, is to solder every component on both sides of the board. With the switch it's not possible so apply lots of solder and heat to the side you can and watch it wick through before the solder solidifies.

Prep the leads of the two capacitors in the kit as shown below.



Insert them through the switch side of the board and solder both sides as shown below.
Trim the leads.



That completes the switch assembly. Set it aside and continue with the amplifier board.