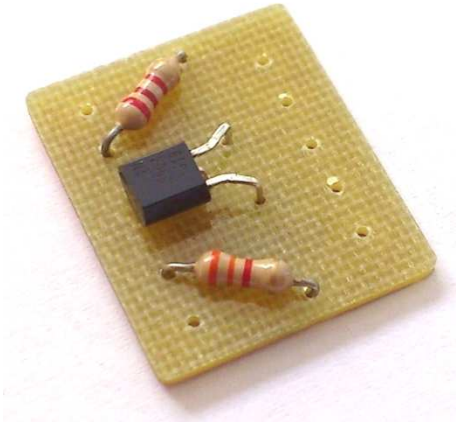
Atari 2600 A/V Mod

Installation Guide



This document will guide you through installing your Atari 2600 A/V Mod Kit to your Atari 2600 (4-Switch, 6-Switch, and Junior NTSC-PAL) game consoles.
Installation is basically the same with varying models.

Step-by-step guide will show you the detailed instructions; please carefully follow them.

Important Note!

These old consoles do have large capacitors inside and they need to be discharged before doing any job with the electronics of them. Otherwise, you may get shocked by accidentally or unintentionally touching them. To avoid such a situation, please leave your Atari 2600 game system's On/Off switch at the **ON** position for at least 5 minutes with the power plug off the electricity source. Please do not skip this stage!

Disclaimer:

Though this job is a pretty easy task, it requires that you do some soldering of some wires and connections. If you are not skilled with a soldering iron, please have this installed by someone experienced! I cannot be held responsible for any harm you do to yourself or to your Atari 2600 game console.

Tools Needed

- Soldering iron, solder, and solder braid
- X-Acto knife
- Drill with 1/4" drill bit
- Needle-nose pliers
- Philips-head and flat-head screwdrivers
- Hot glue gun and hot glue stick(optional)

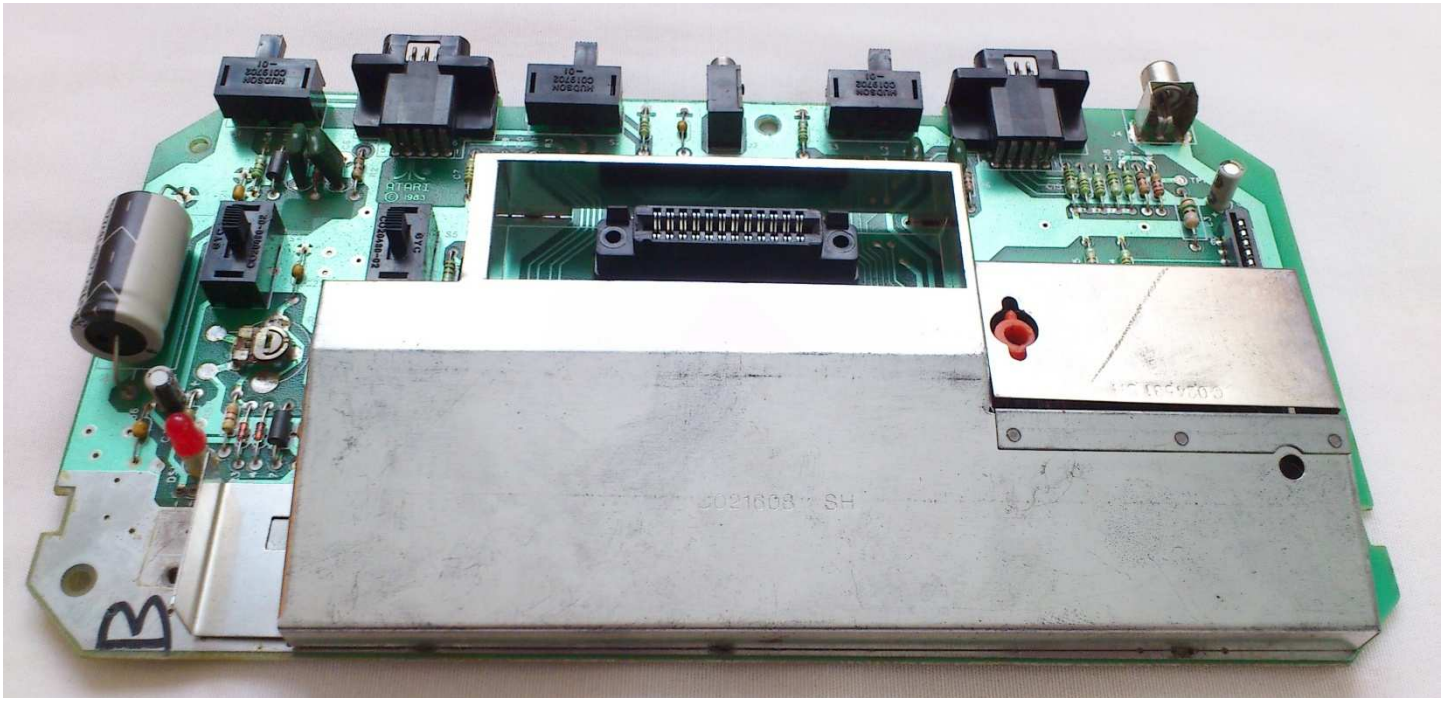
Junior Model Installation - NTSC

Step 1:

Open your Atari 2600 Jr. by unscrewing five screws at the bottom. Then, you need to bend the three tabs shown below with a flat-headed object.

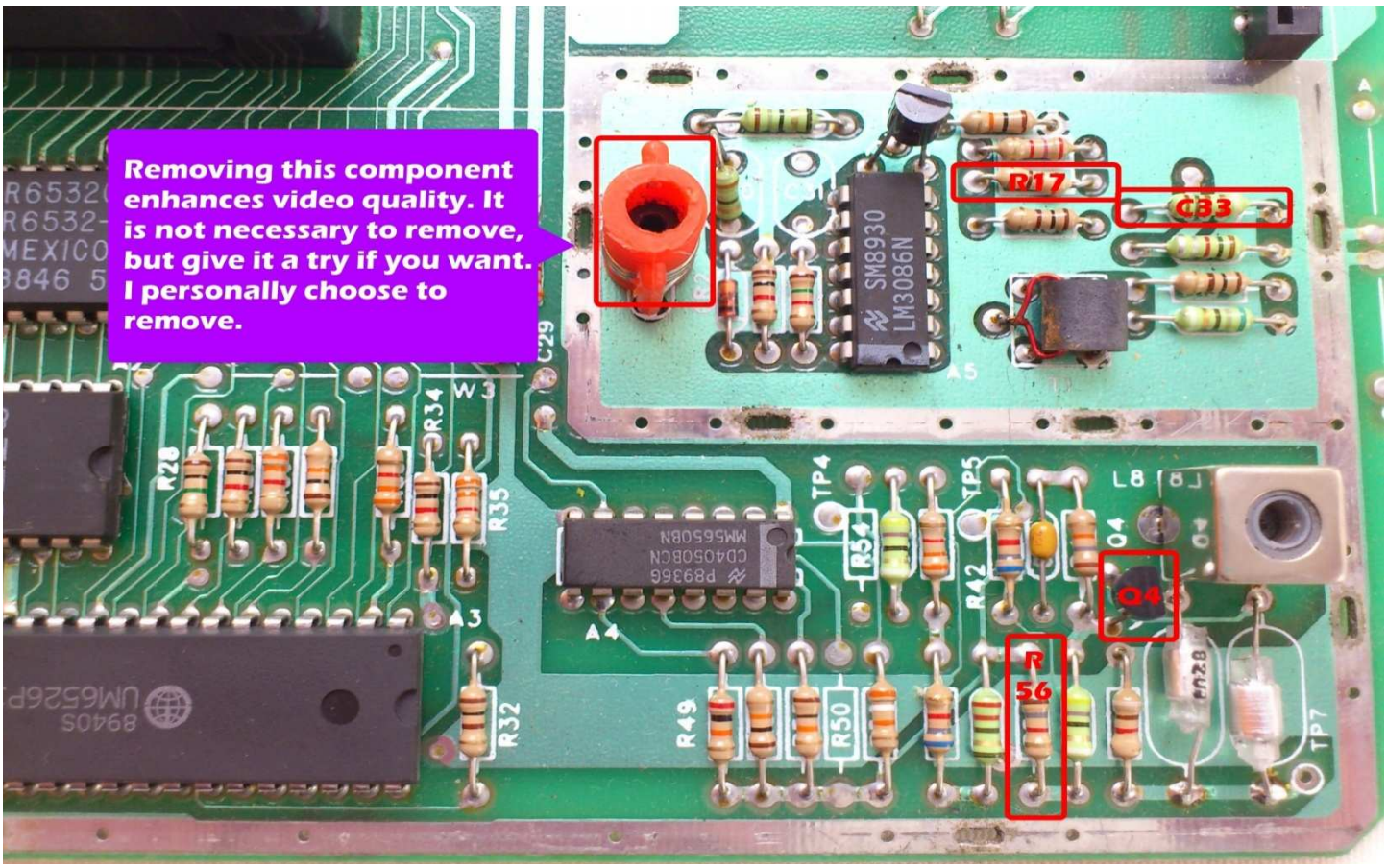
Step 2:

Remove the metal shield parts from the front and bottom of the motherboard. Needle-nose pliers will help you bend the tabs holding the shield in place. They are not necessary anymore; you can throw them away.



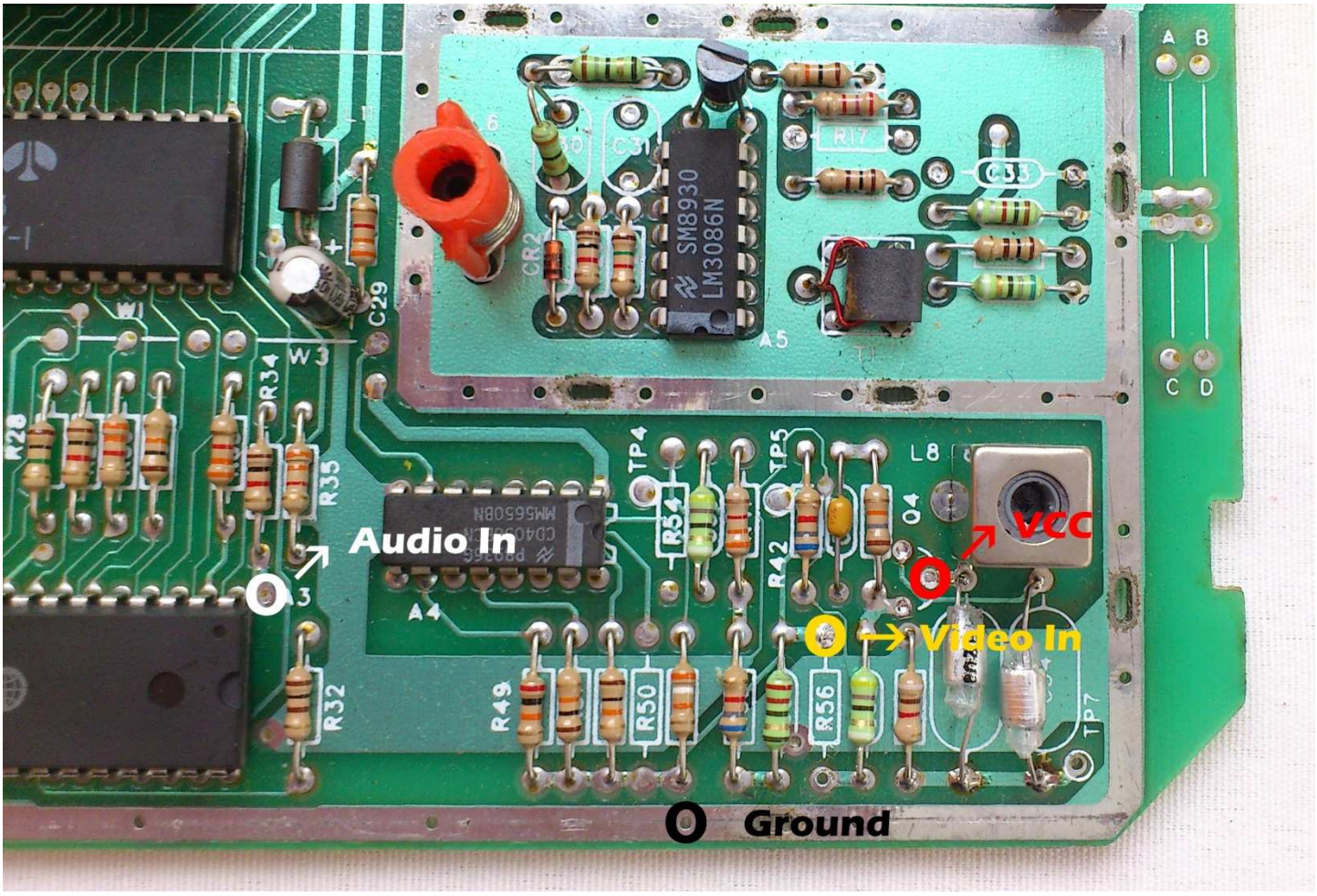
Step 3:

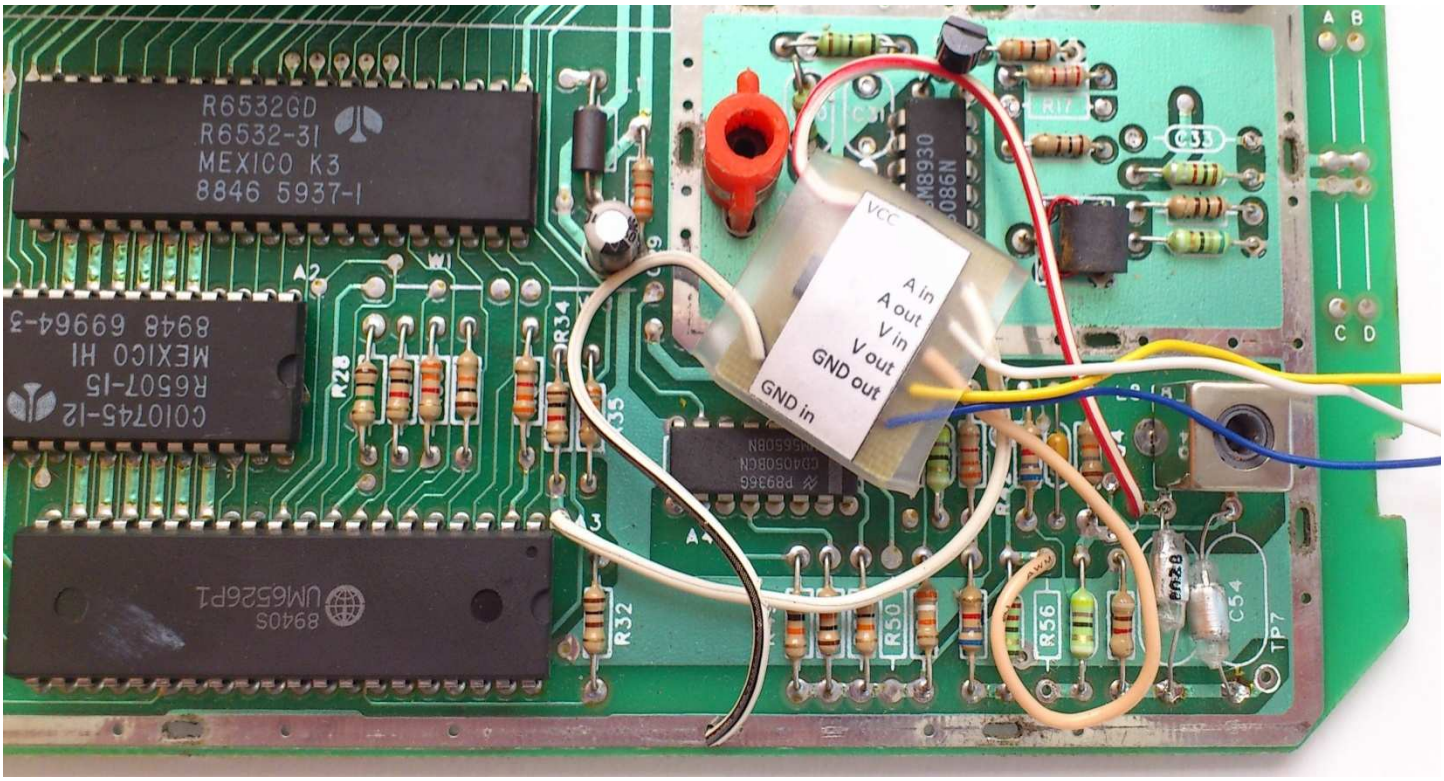
Remove the components from the motherboards as shown below:



Step 4:

Now, solder wires from your A/V board to the spots shown below. Push the wire through the hole while heating it at the back with your soldering iron. The wires to be soldered on the spots are labelled the same as the spots. Just match them:





Step 5:

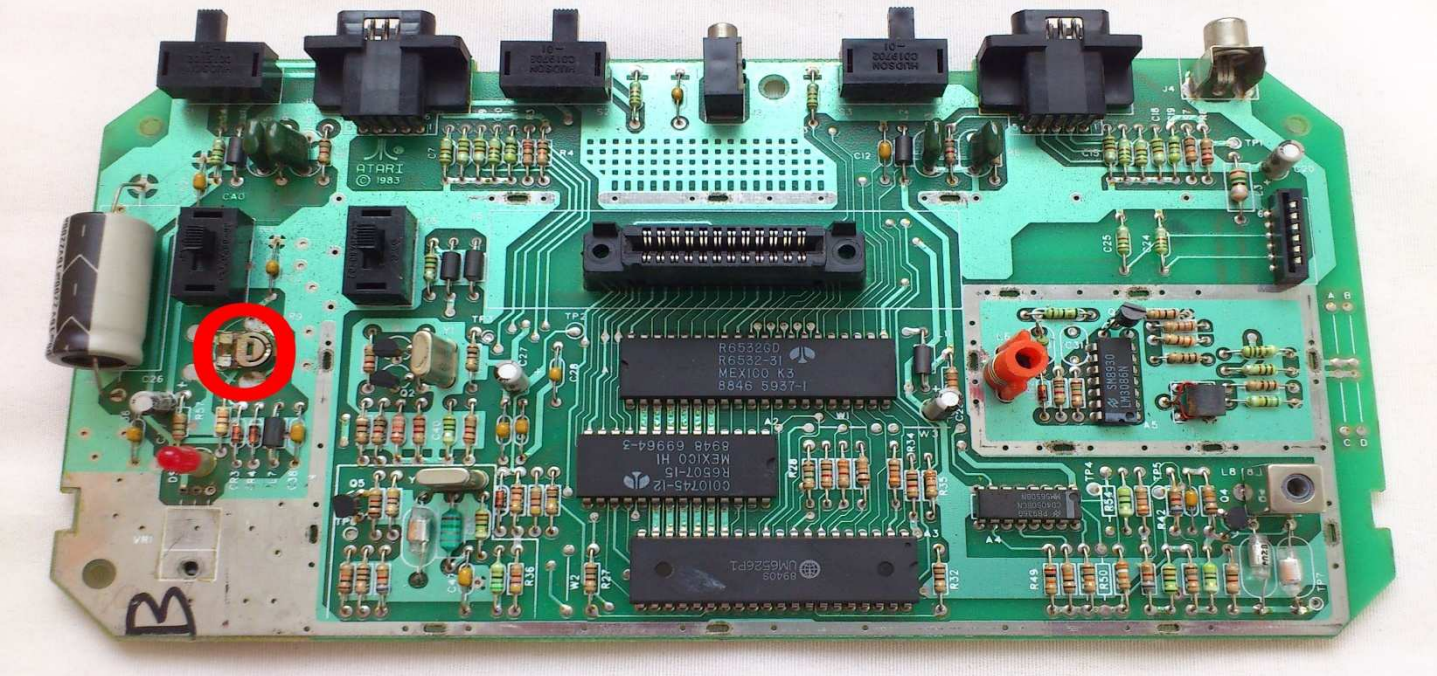
Open two ¼" holes at the side of your case as shown below. Be careful not to break any plastic while drilling.

Step 6:

Mount the A/V jacks and thighten the nuts with your needle-nose pliers. Then, solder the **V out** wire to the center pin of yellow jack, **A out** wire to the center pin of the white jack(this jack may be supplied as red, also). Solder the **GND out** wire to the outer terminals of both jacks.

Step 7:

Now, it is the time to test and adjust the mod before putting the console together. Put in a game cartridge. Hook up your system to your Tv and turn on your system. If the colors look right, go on and re-assemble the console. If colors look weird, take a flat-head screw-driver and adjust the color to your taste by turning the pot shown below clock-wise or vice versa.



Final Step:

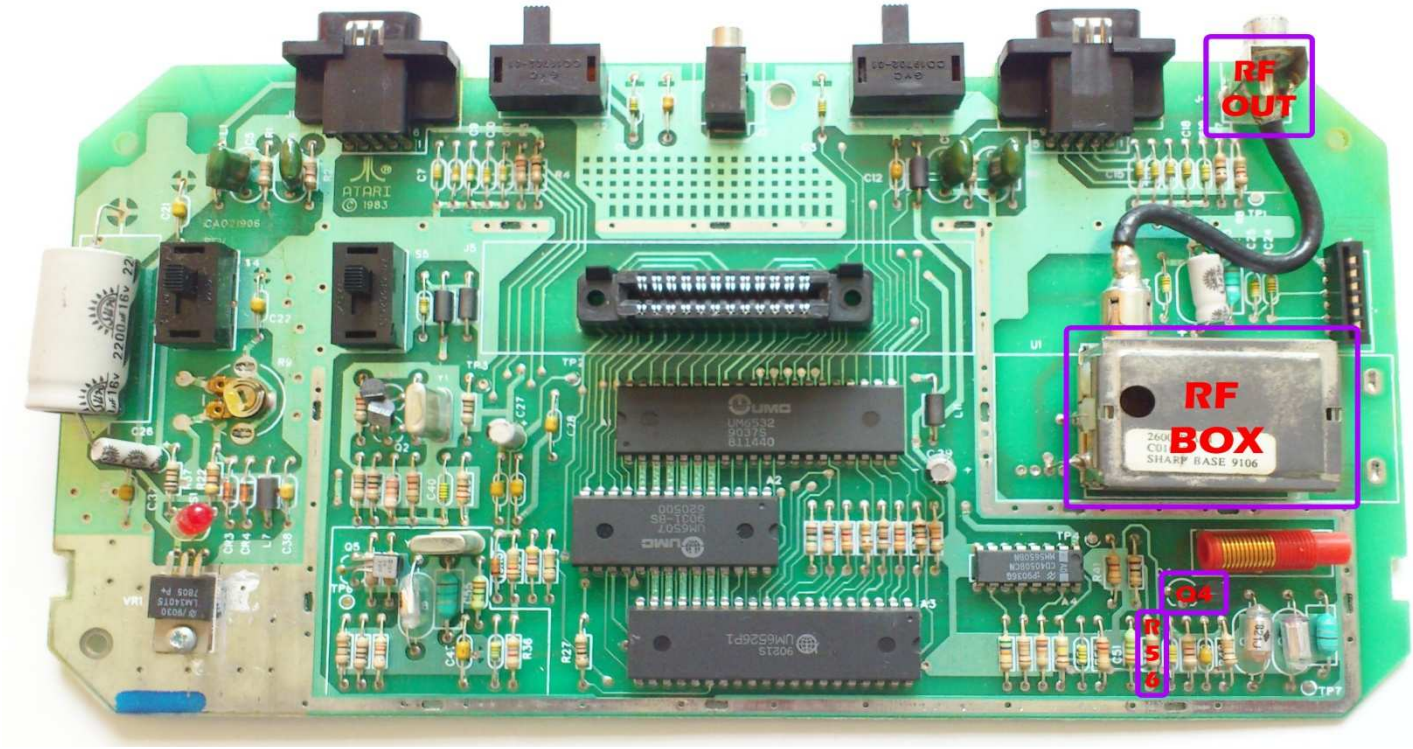
When all is done, simply re-assemble your console and enjoy your upgraded Atari 2600 Jr.

Junior Model Installation – PAL

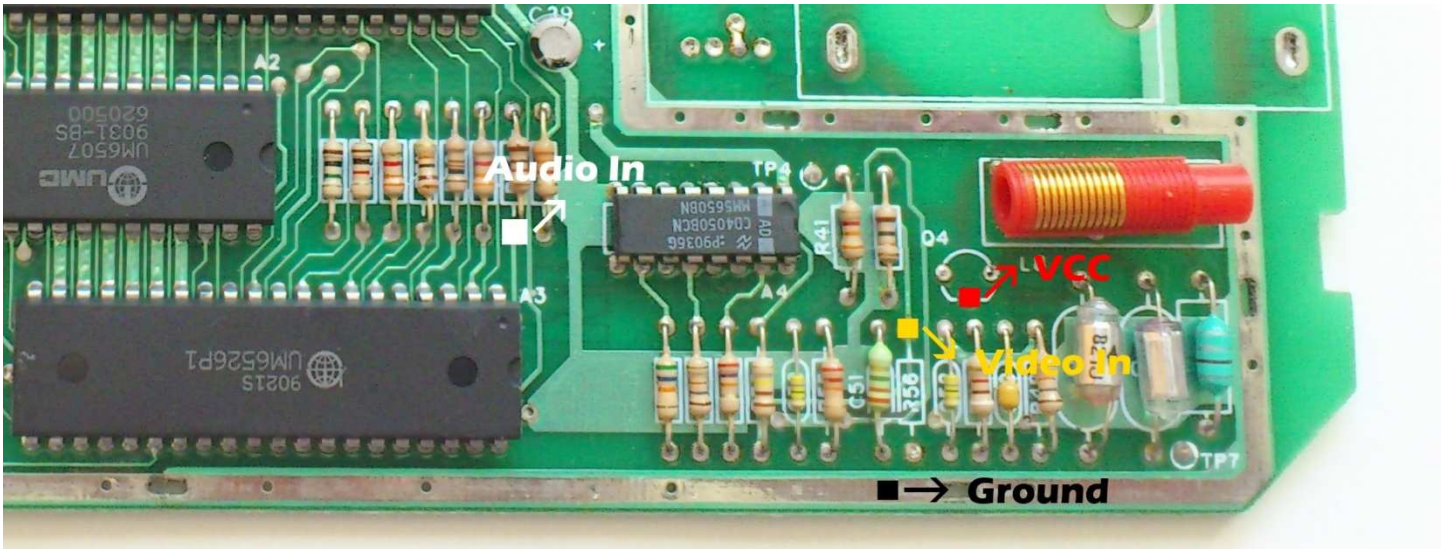
This installation is the same as NTSC model. Just follow it. There are some rare variants of Jr model. Components on them may be located on different places but the labellings are the same. So, follow the labellings during installation.

Junior Model Installation – PAL(UK)

Remove the components shown on the photo:



Take the signals from the spots below:



4-Switch Model Installation – NTSC

Step 1:

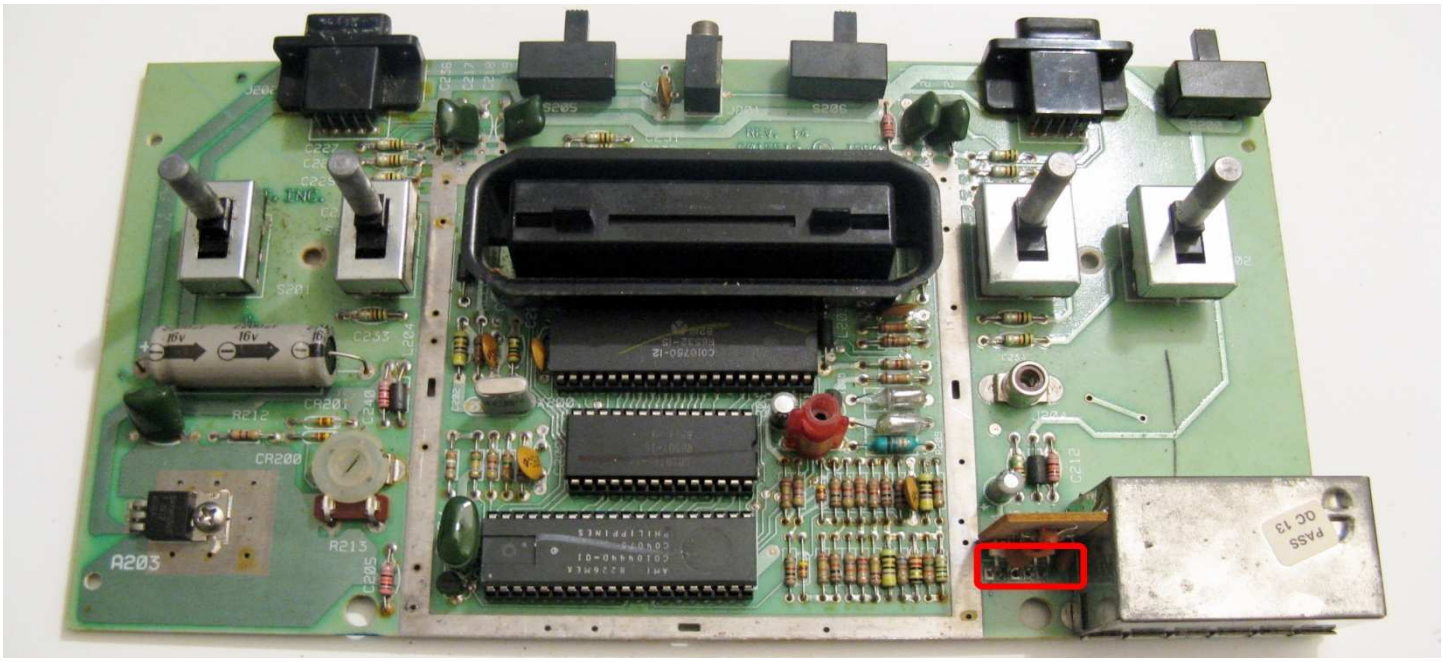
Open your Atari 2600 4-Switch by unscrewing four screws at the bottom using your Philips-head screw-driver.

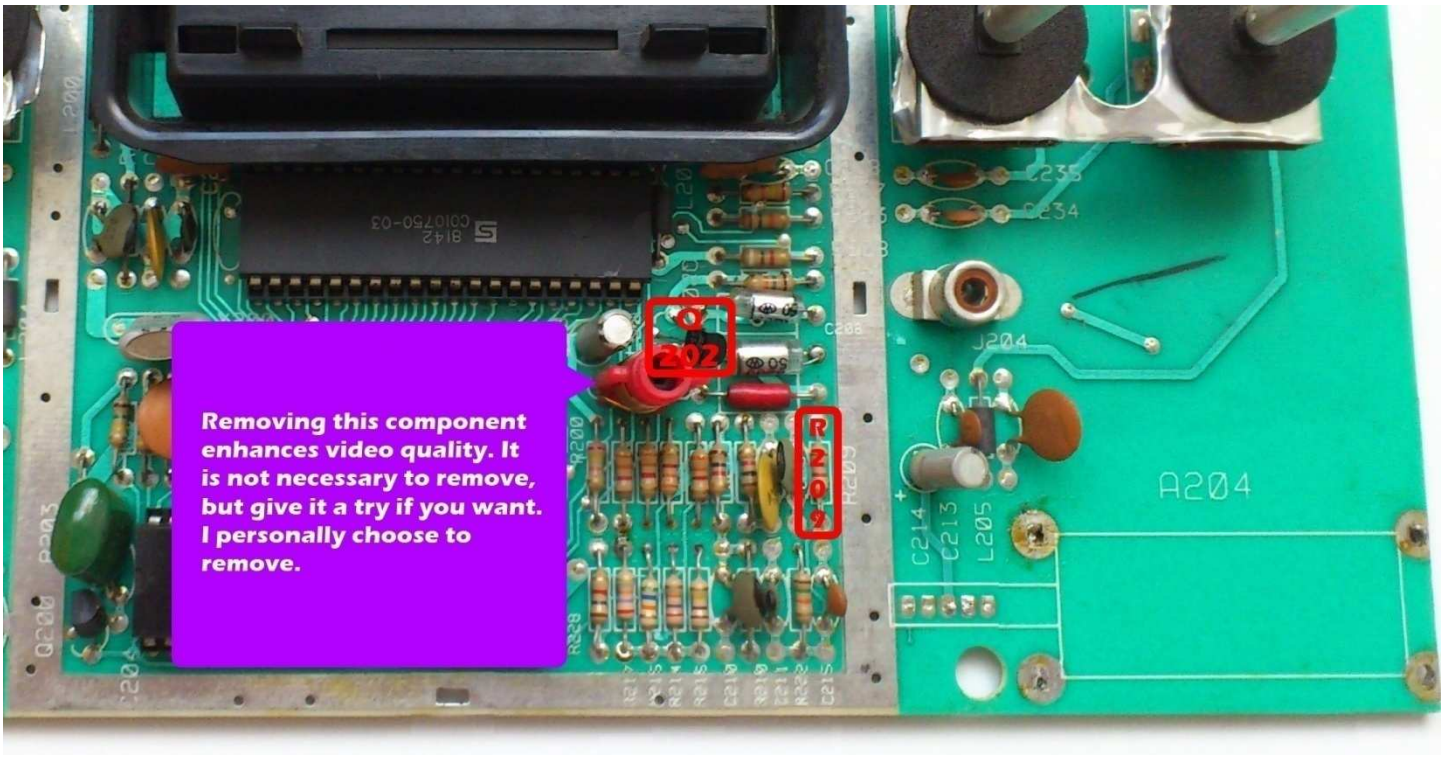
Step 2:

Remove the metal shield parts from the front and bottom of the motherboard. Needle-nose pliers will help you bend the tabs holding the shield in place. They are not necessary anymore; you can throw them away.

Step 3:

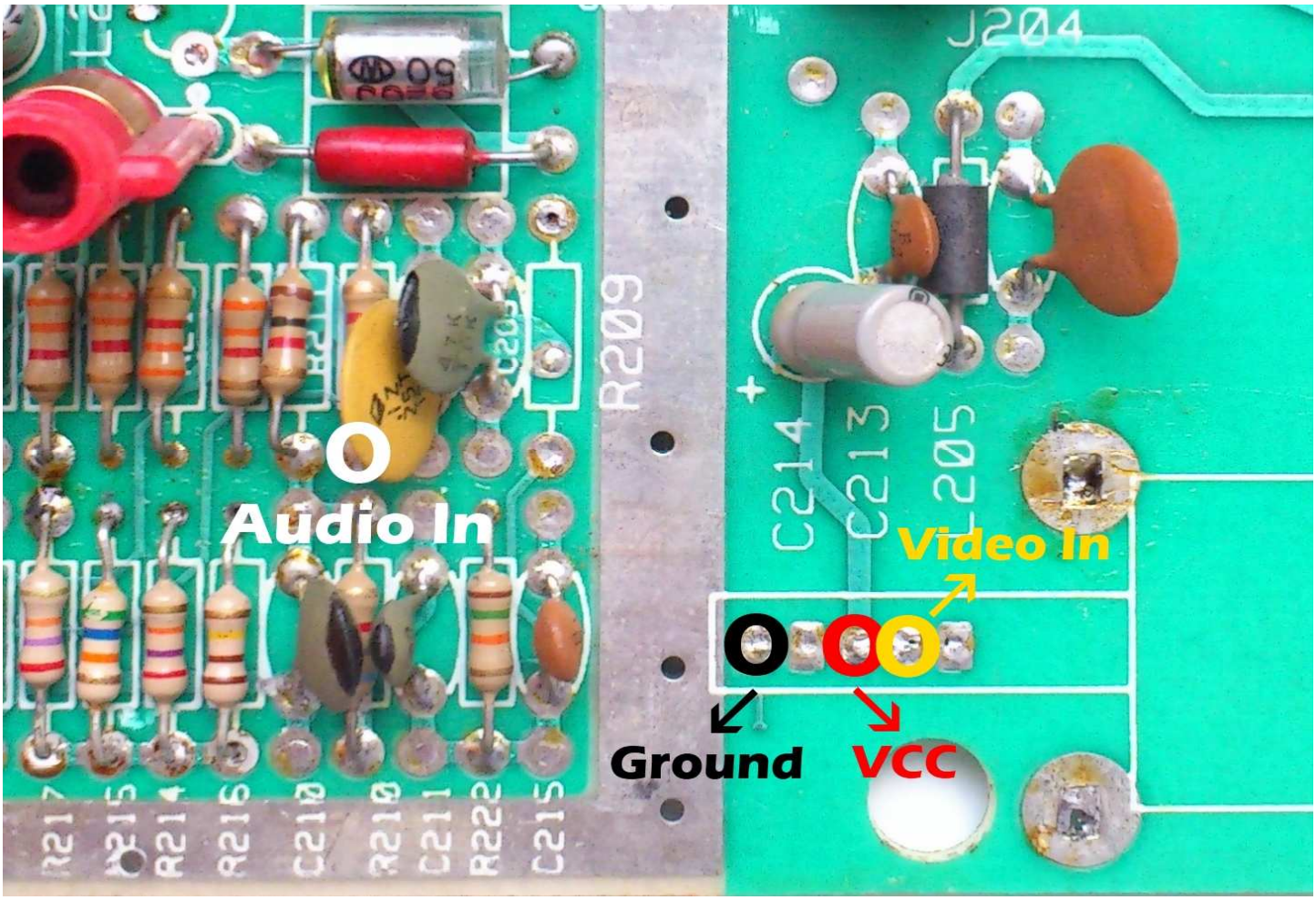
Cut the five pins shown and remove the RF box entirely. Removing it entirely will prevent any possible interference. Then, remove the components shown.

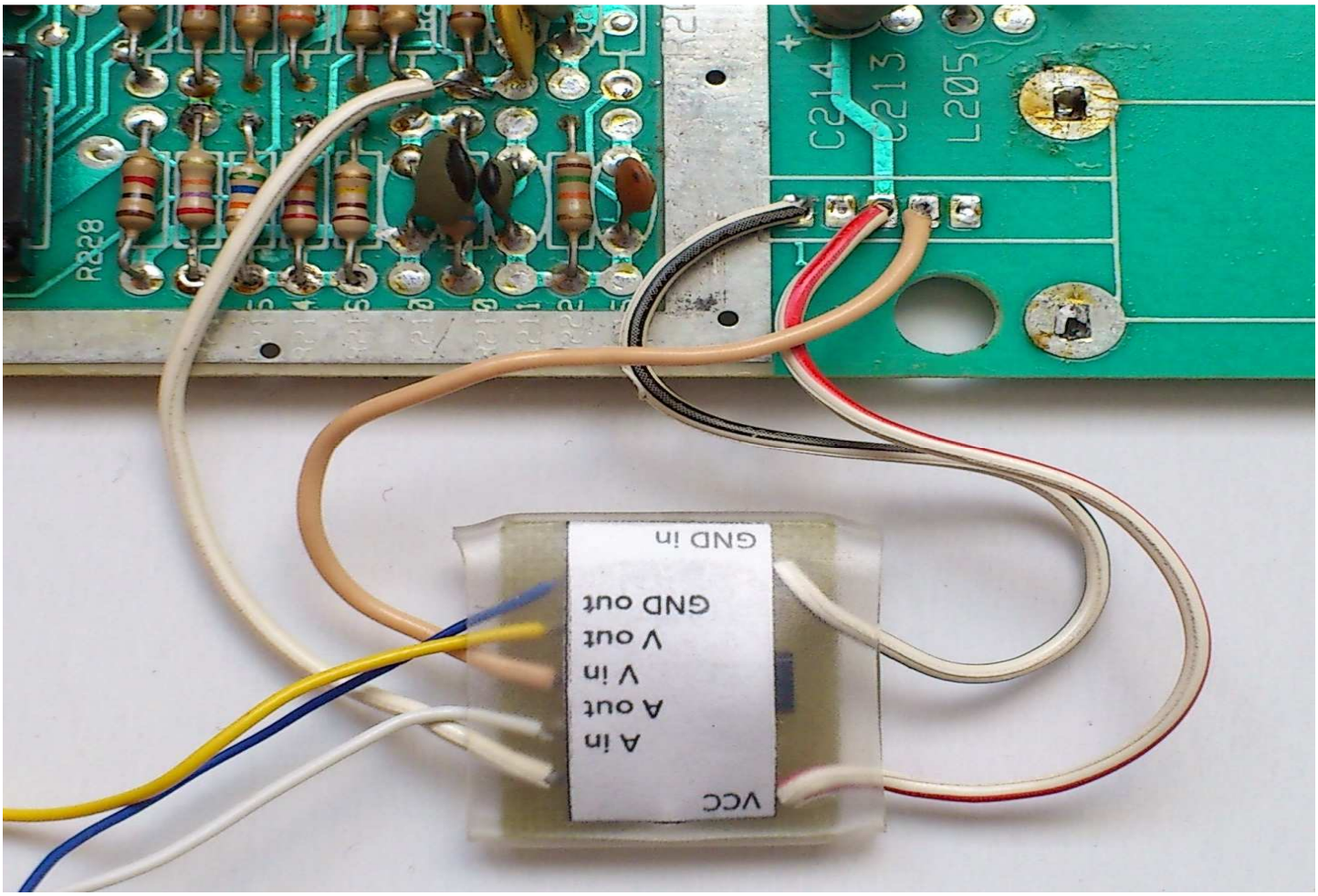


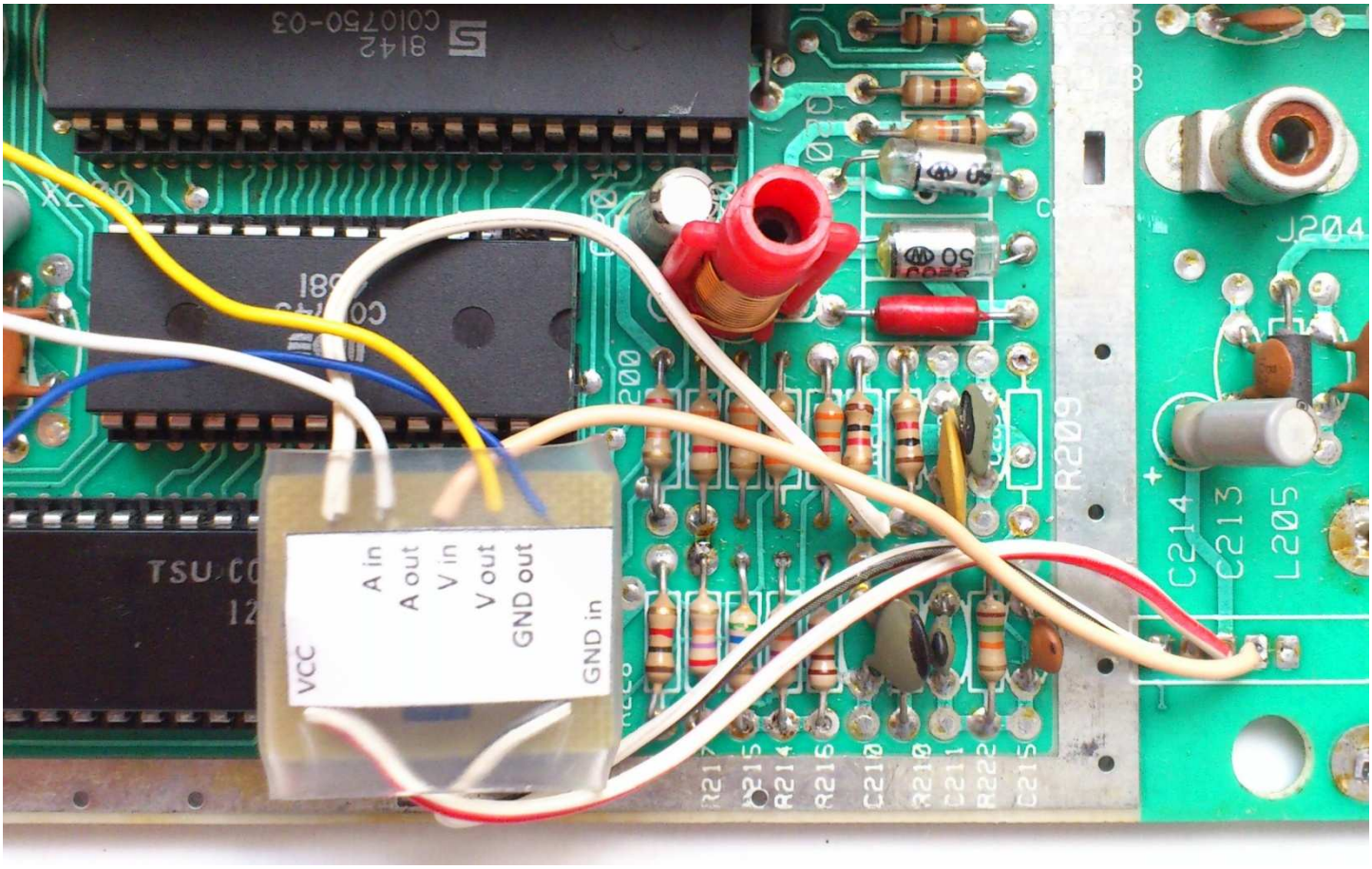


Step 4:

Now, solder wires from your A/V board to the spots shown below. Push the wire through the hole while heating it at the back with your soldering iron. There is not a hole for A in; just solder on resistor end. The wires to be soldered on the spots are labelled the same as the spots. Just match them:




R228
C214
C213
L205
GND in
GND out
V out
V in
A out
A in
VCC

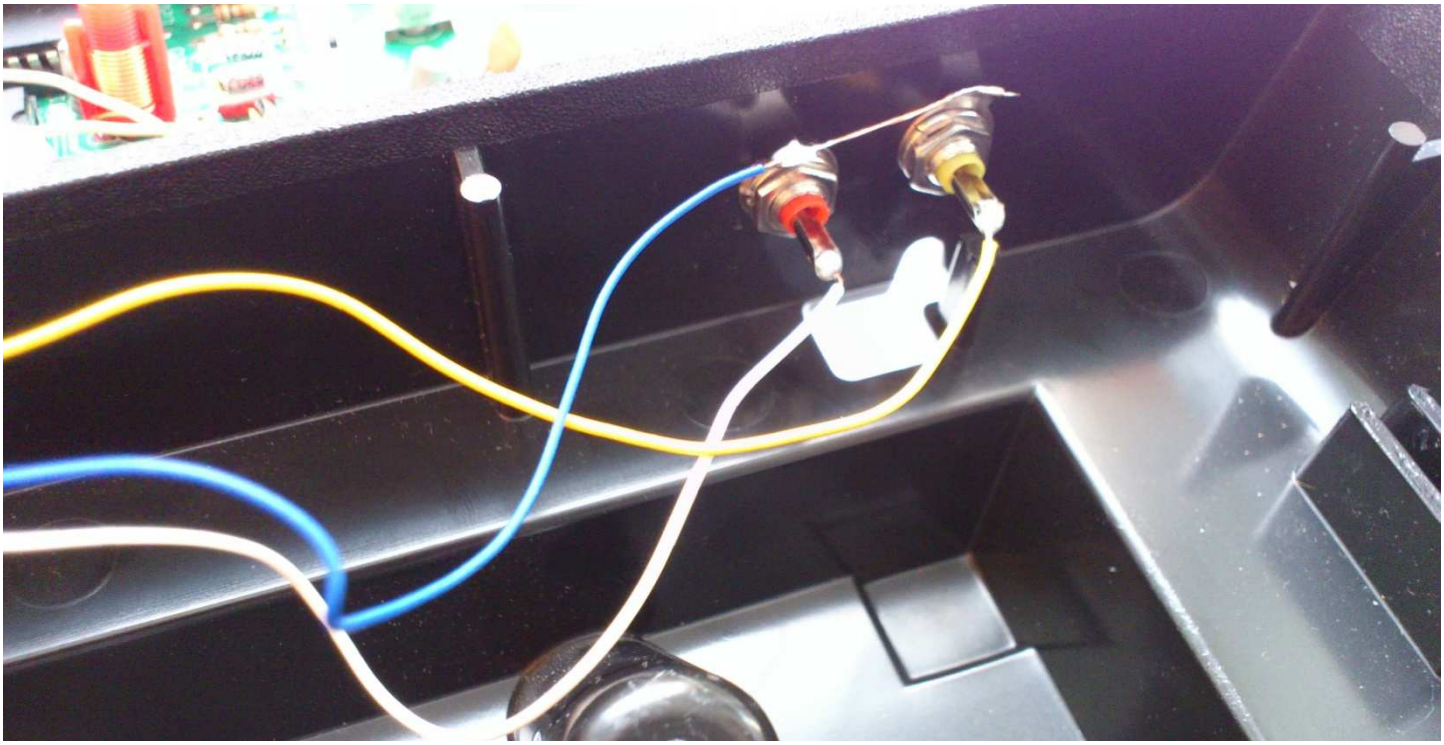

J204
R209
C214
C213
L205
VCC
A in
A out
V in
V out
GND out
GND in

Step 5:

Open two ¼" holes at the back of your case. Mount the A/V jacks and thighten the nuts with your needle-nose pliers.

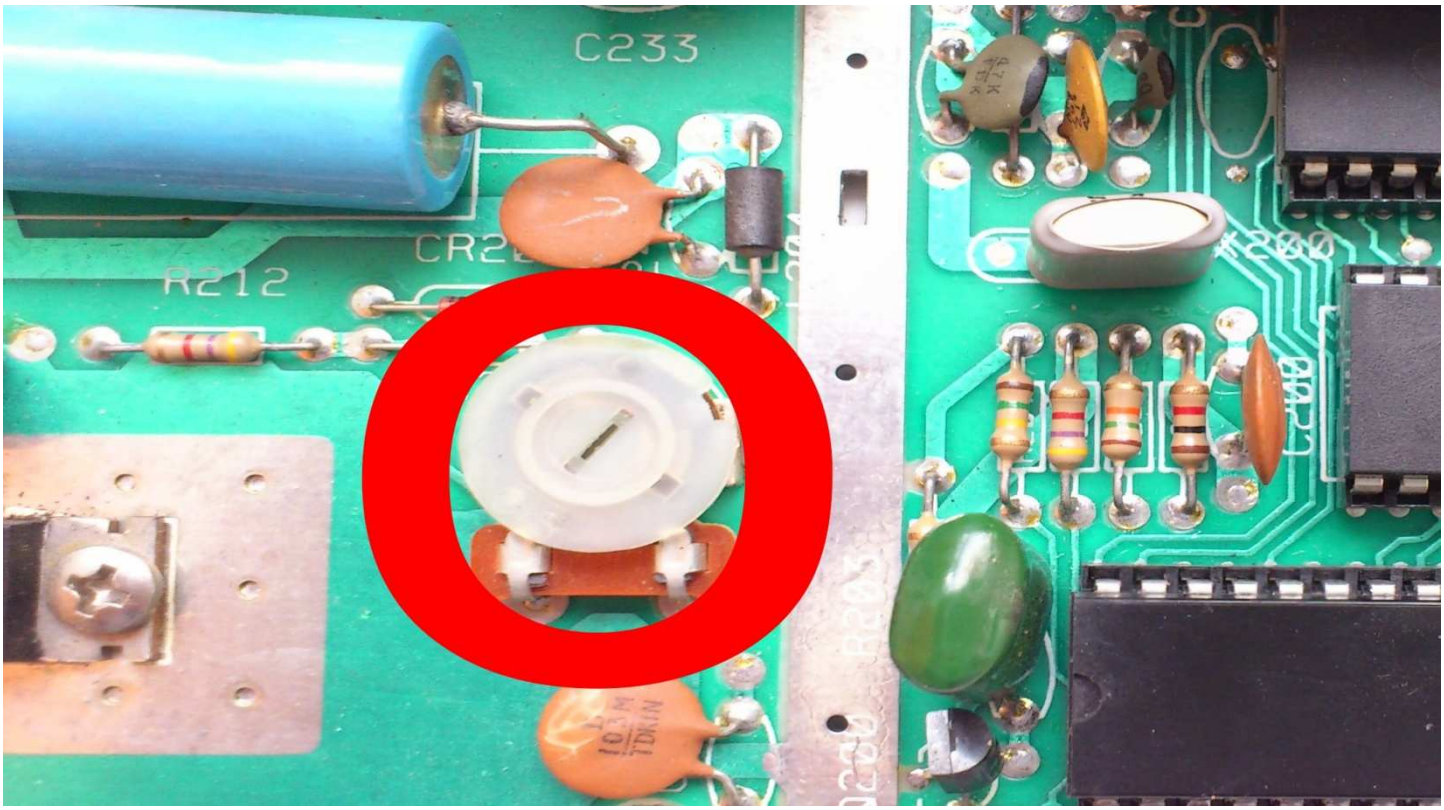
Step 6:

Now, solder the **V out** wire to the center pin of yellow jack, **A out** wire to the center pin of the red jack(this jack may be supplied as white, also). Solder the **GND out** wire to the outer terminals of both jacks.



Step 7:

Now, it is the time to test and adjust the mod before putting the console together. Put in a game cartridge. Hook up your system to your Tv and turn on your system. If the colors look right, go on and re-assemble the console. If colors look weird, take a flat-head screw-driver and adjust the color to your taste by turning the pot shown below clock-wise or vice versa.

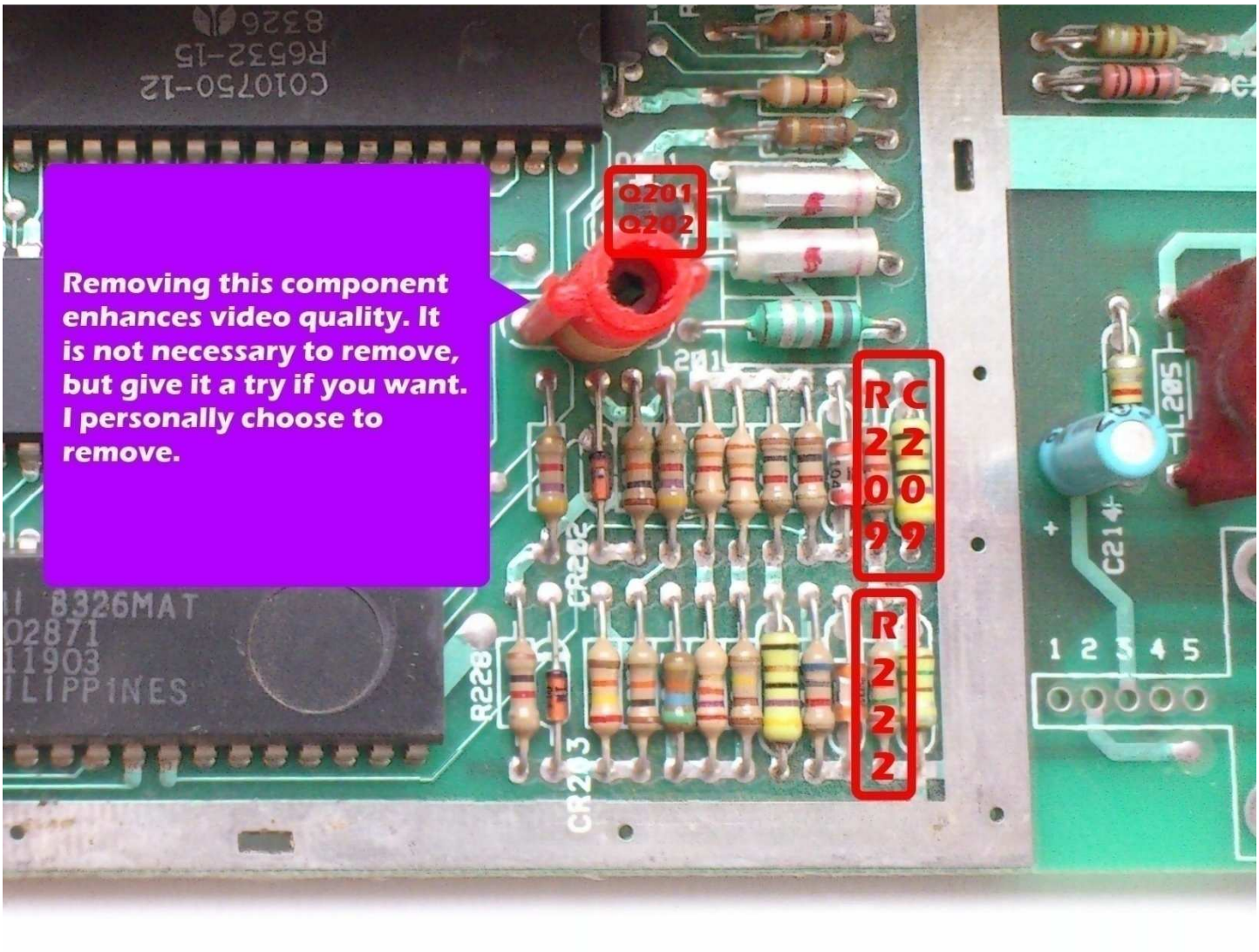


Final Step:

When all is done, simply re-assemble your console and enjoy your upgraded Atari 2600.

4-Switch Model Installation – PAL

Remove the components shown below. Transistor to be removed may be labelled as Q201 or Q202. Remaining installation is the same as NTSC model. Just follow it.



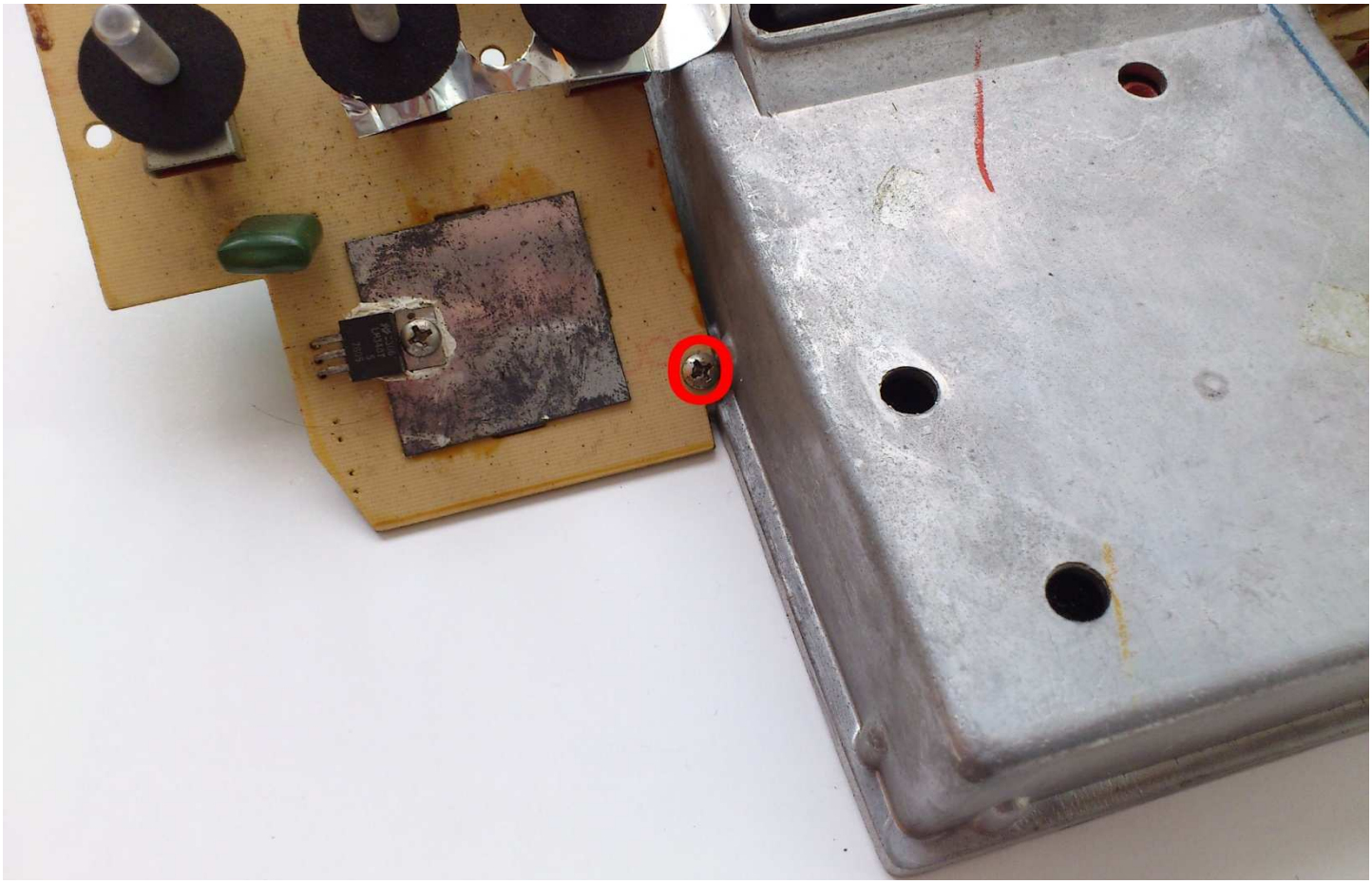
6-Switch Model Installation – NTSC

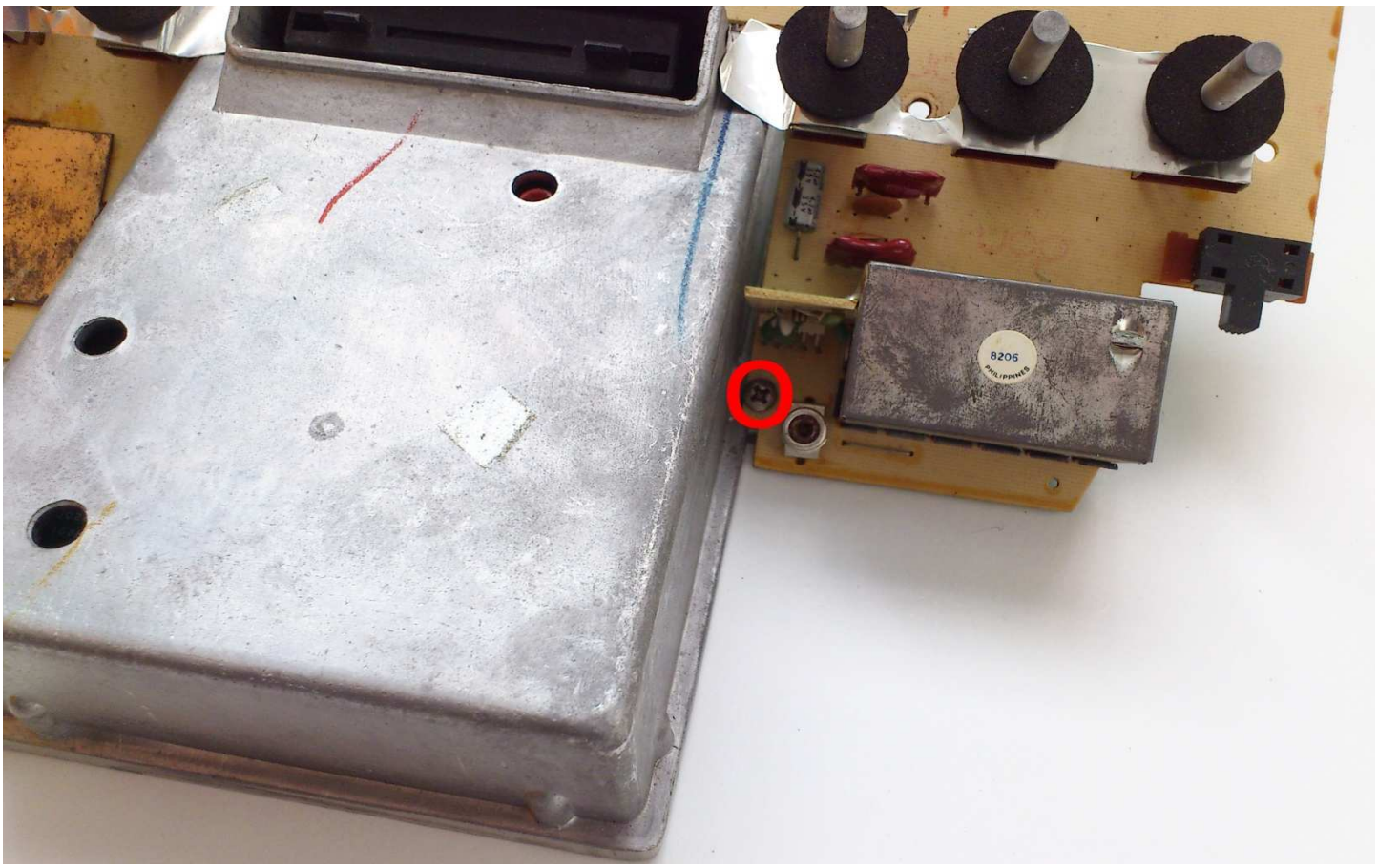
Step 1:

Open your Atari 2600 4-Switch by unscrewing eight screws at the bottom using your Philips-head screw-driver.

Step 2:

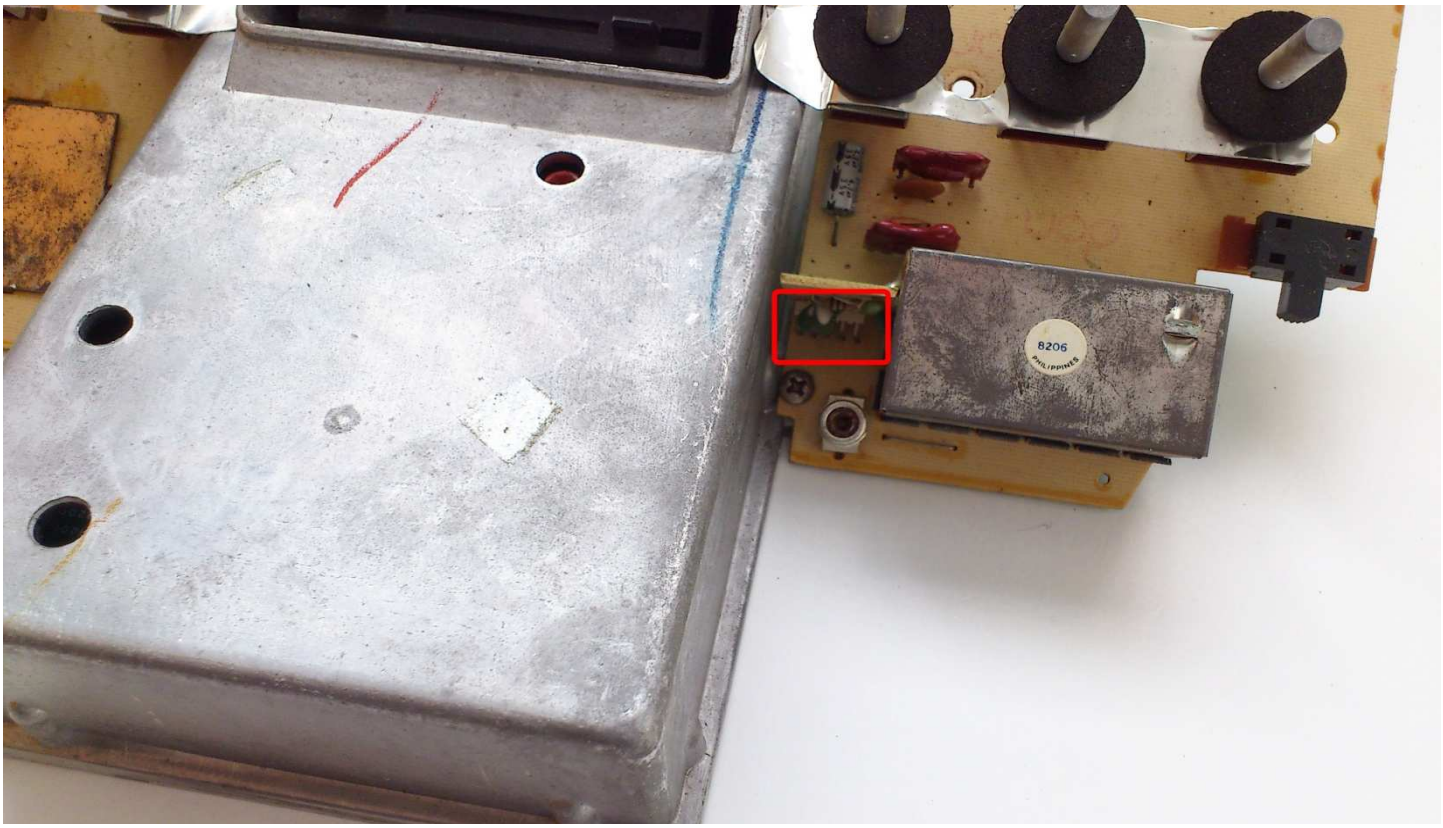
Remove the two screws to seperate the mainboard from the switchboard.





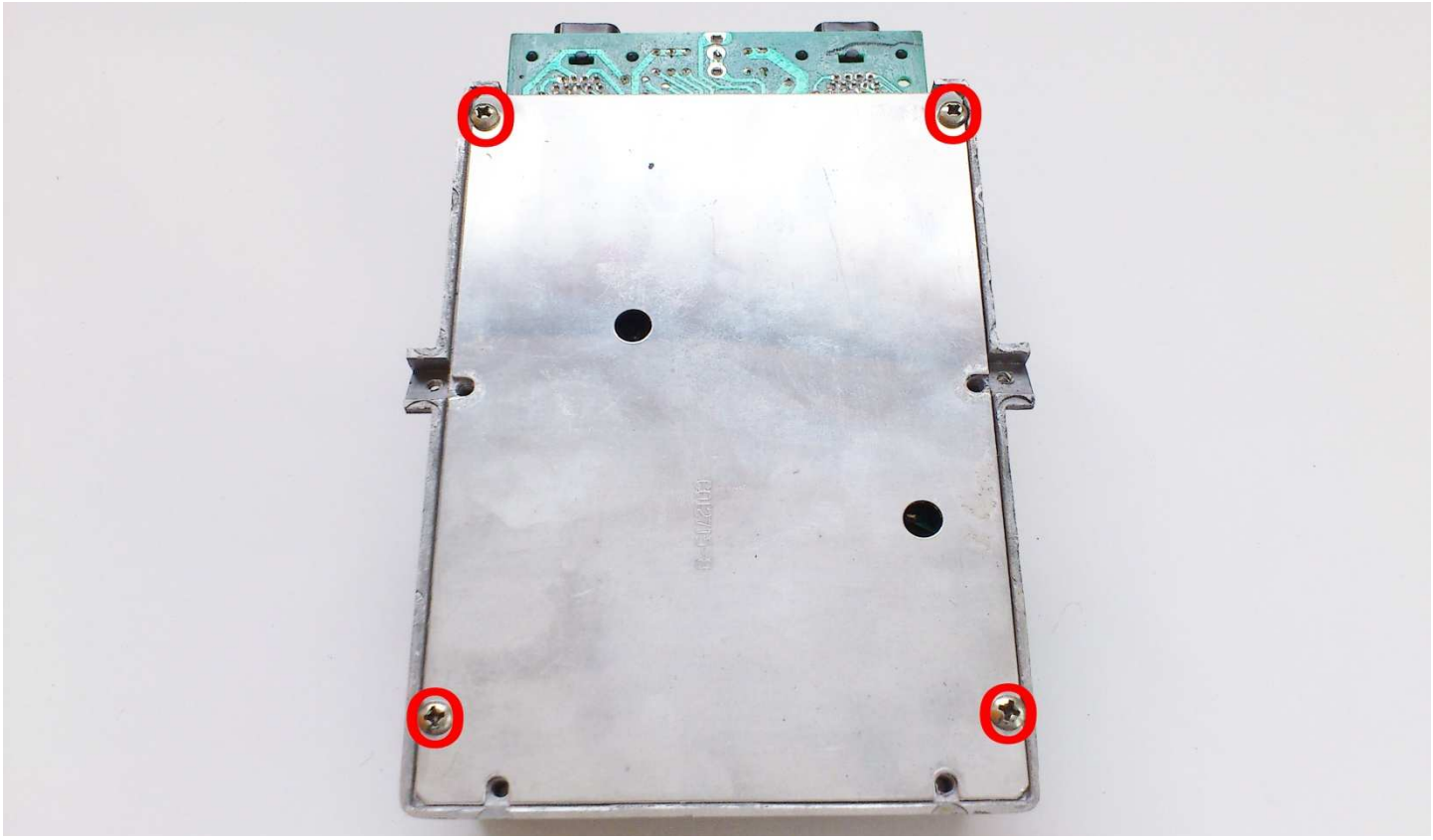
Step 3:

Cut the five pins shown and remove the RF box entirely. Removing it entirely will prevent any possible interference.



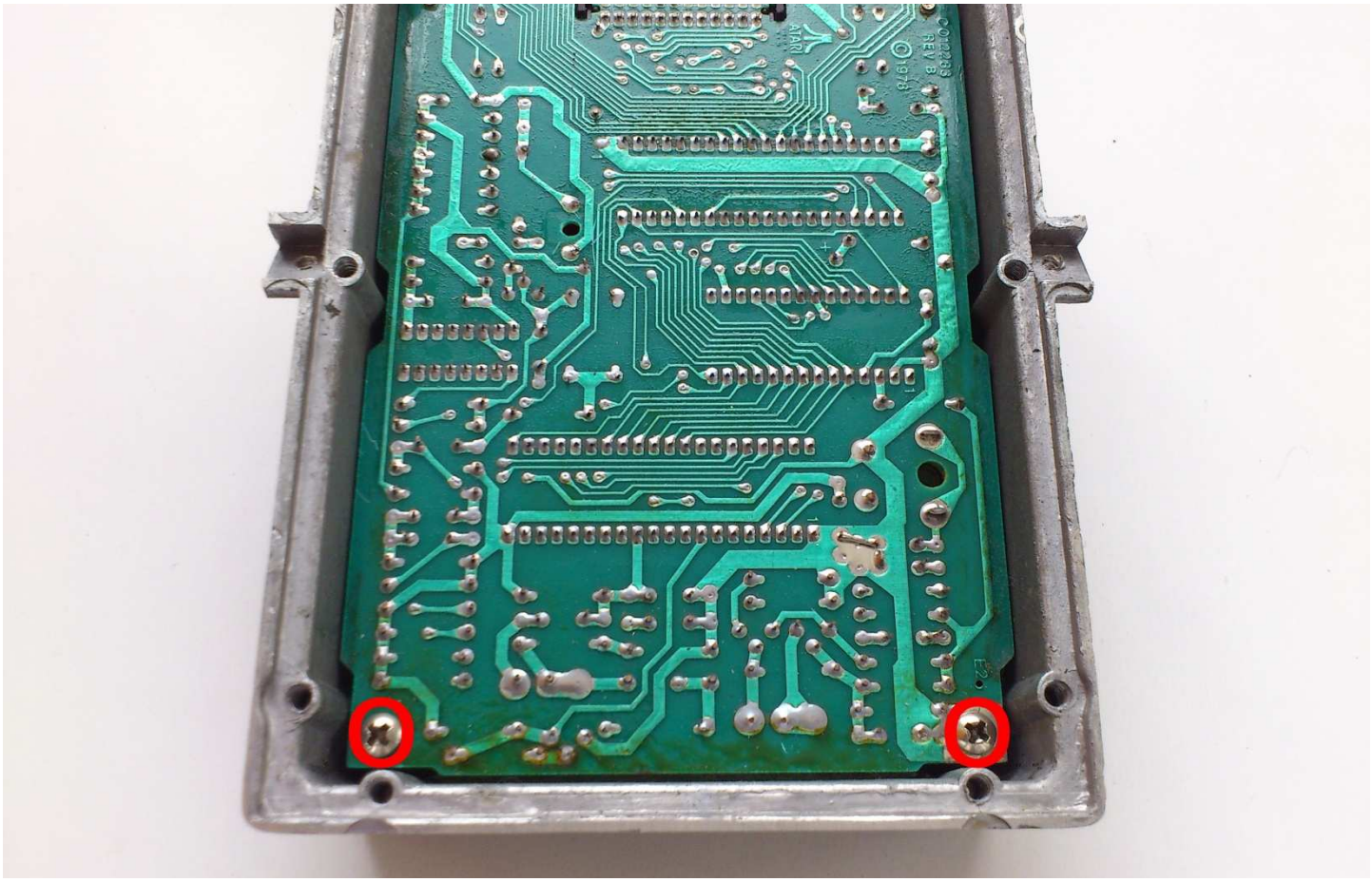
Step 4:

Now, you need to unscrew four screws at the back of the mainboard to remove the metal shielding.



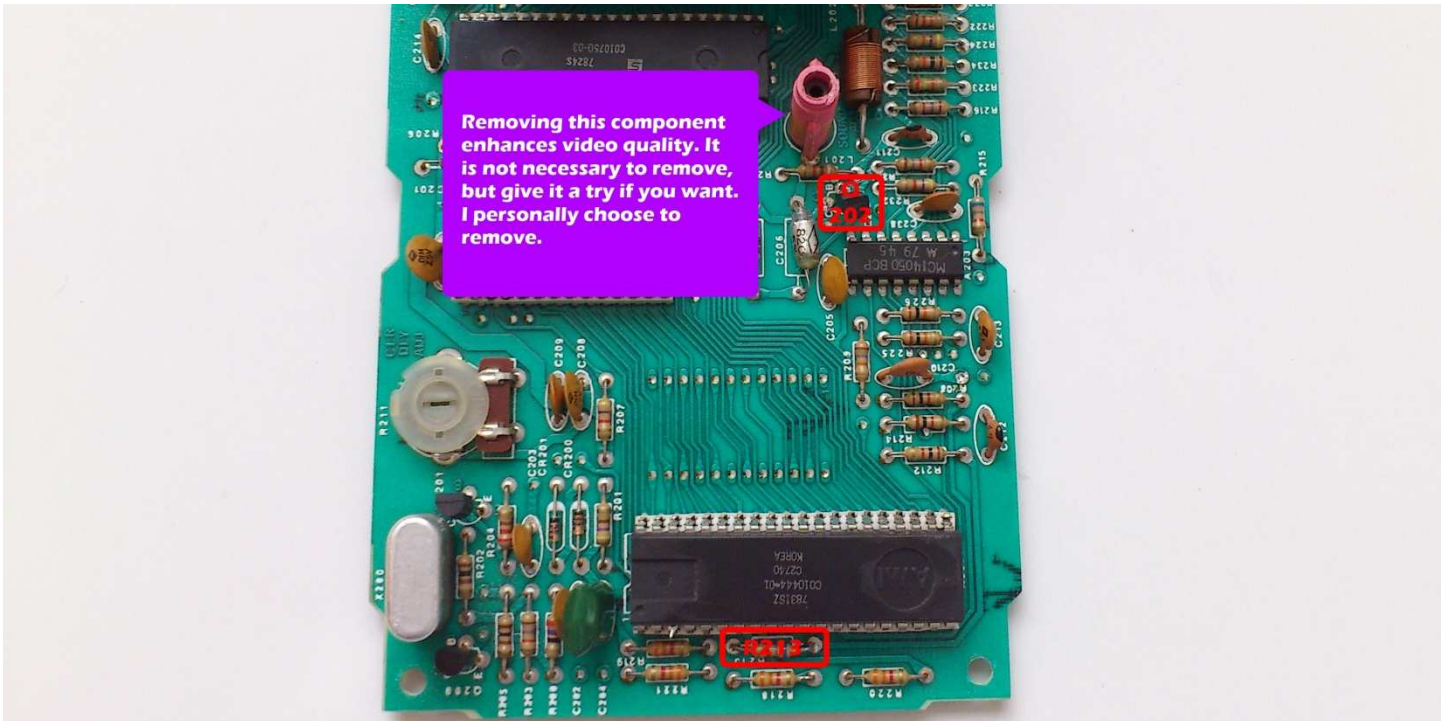
Step 5:

Remove the last two screws to seperate the shielding from the mainboard.



Step 6:

Remove the components shown below.



Step 7:

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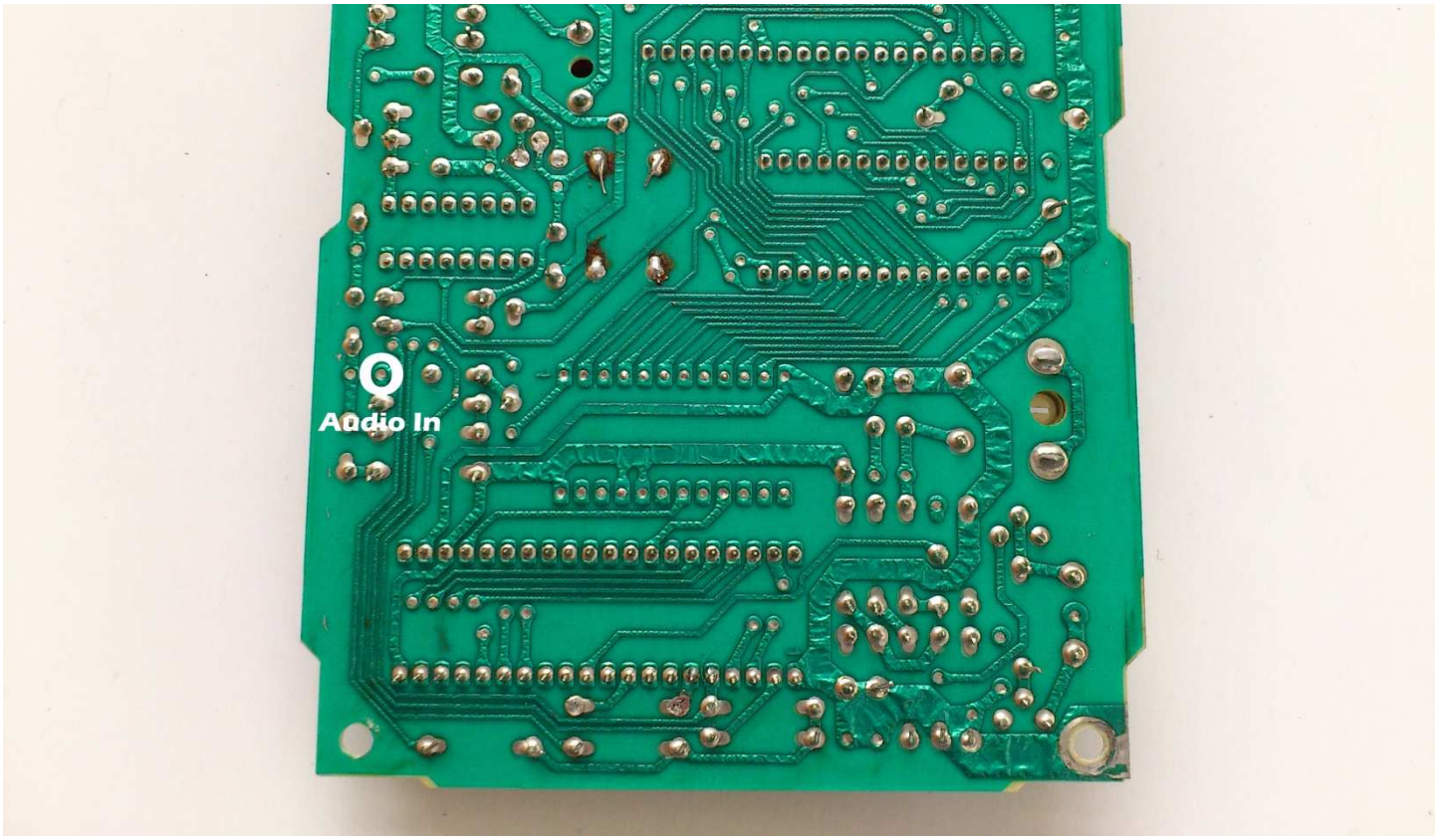
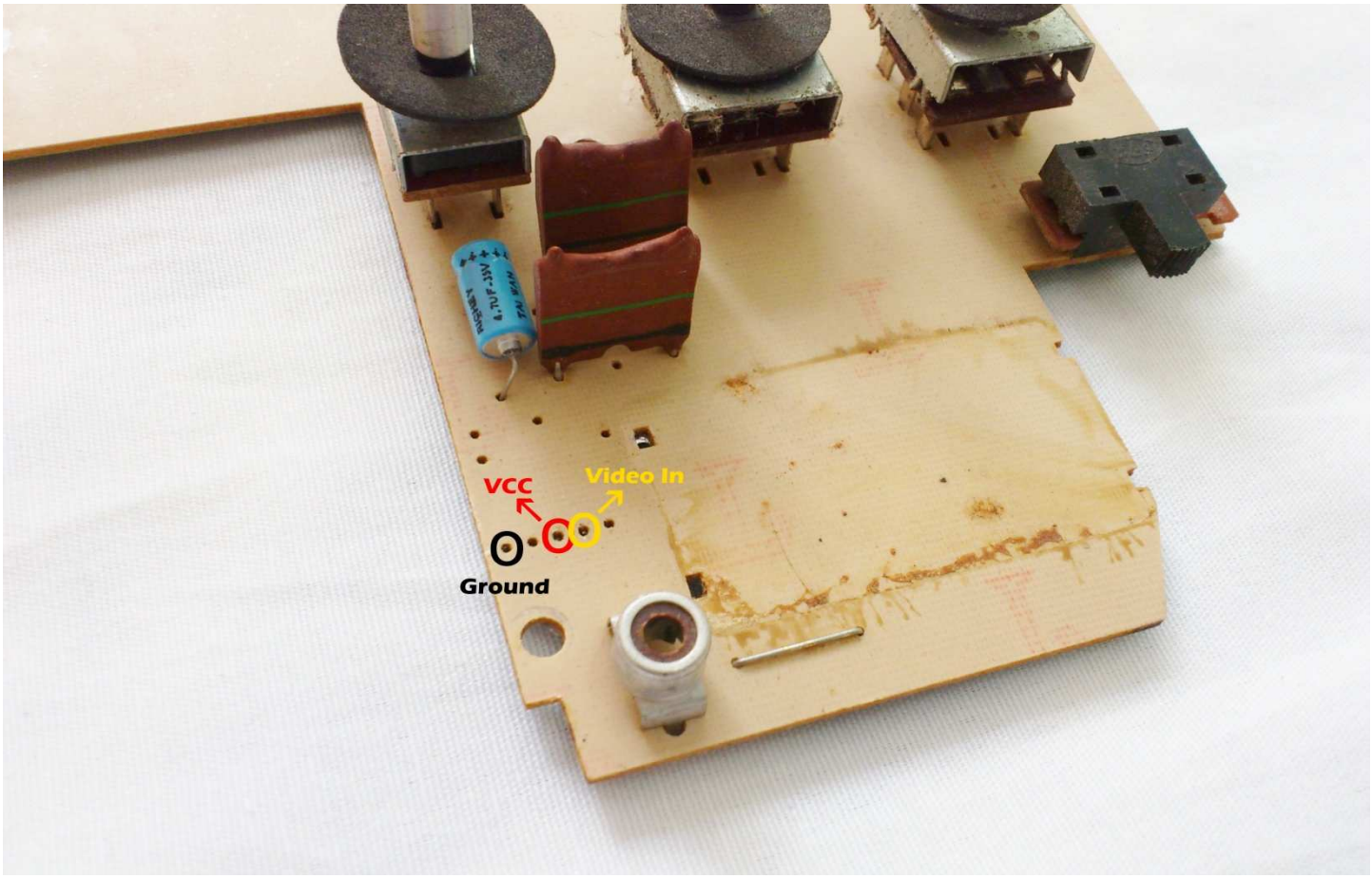
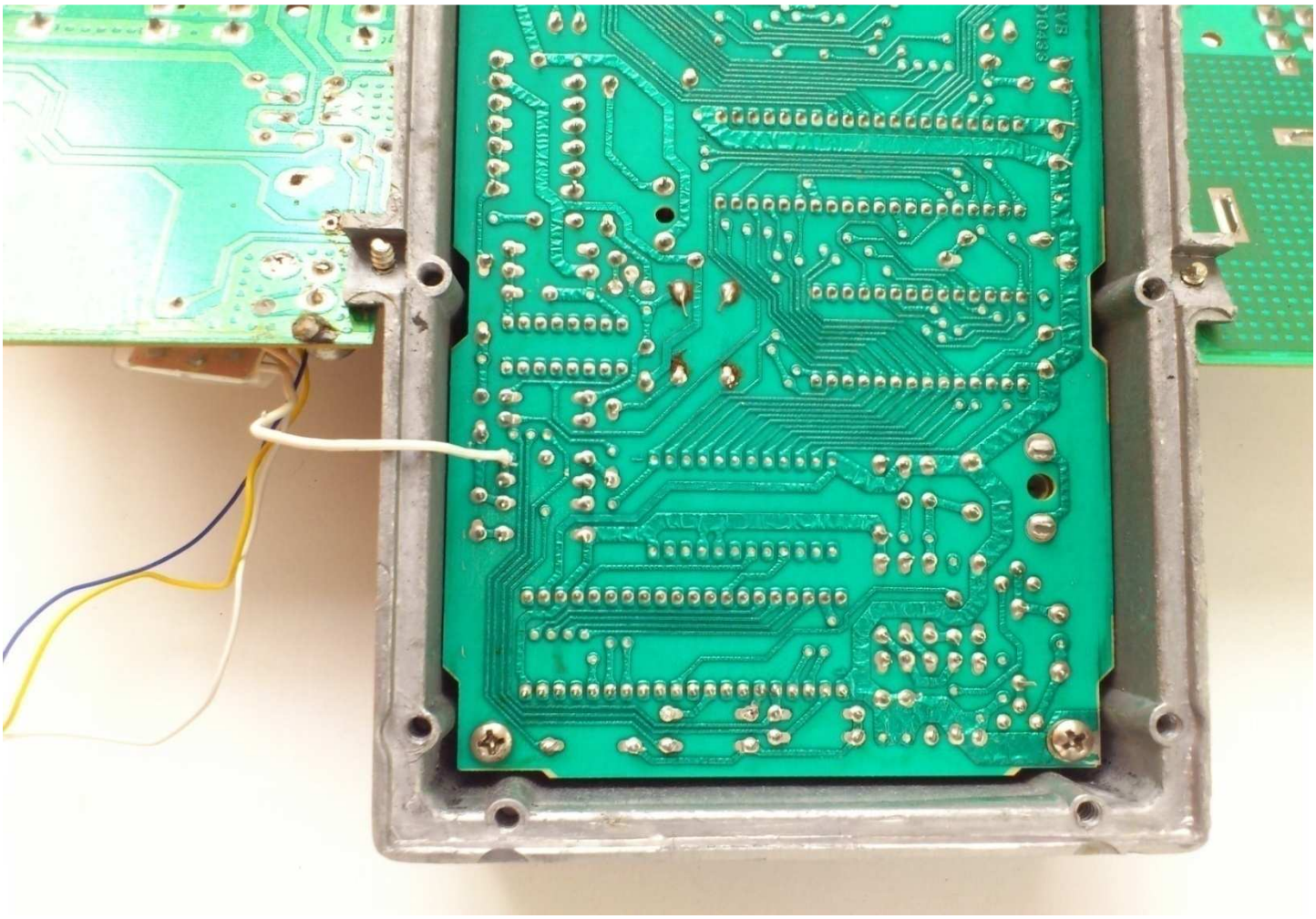
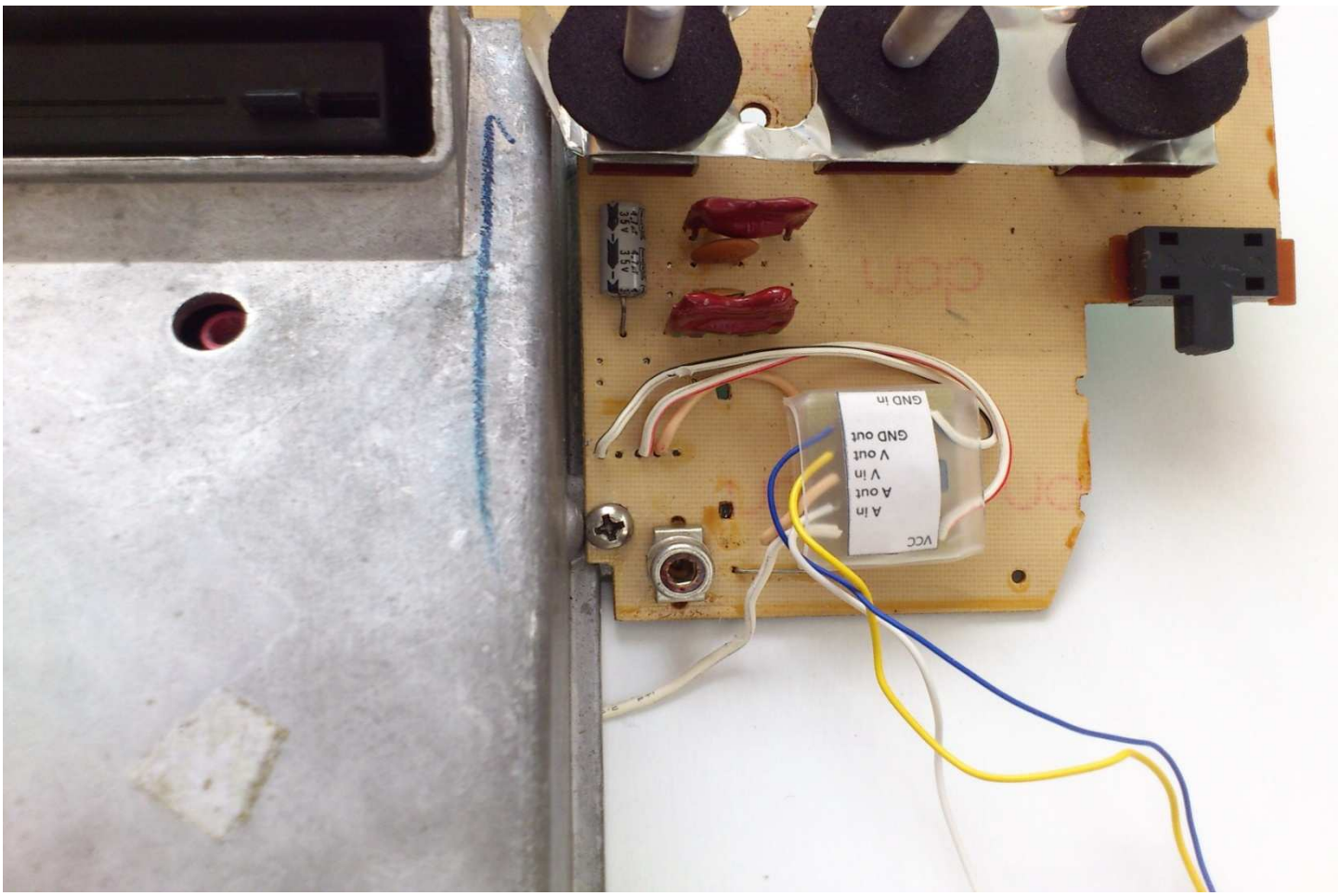






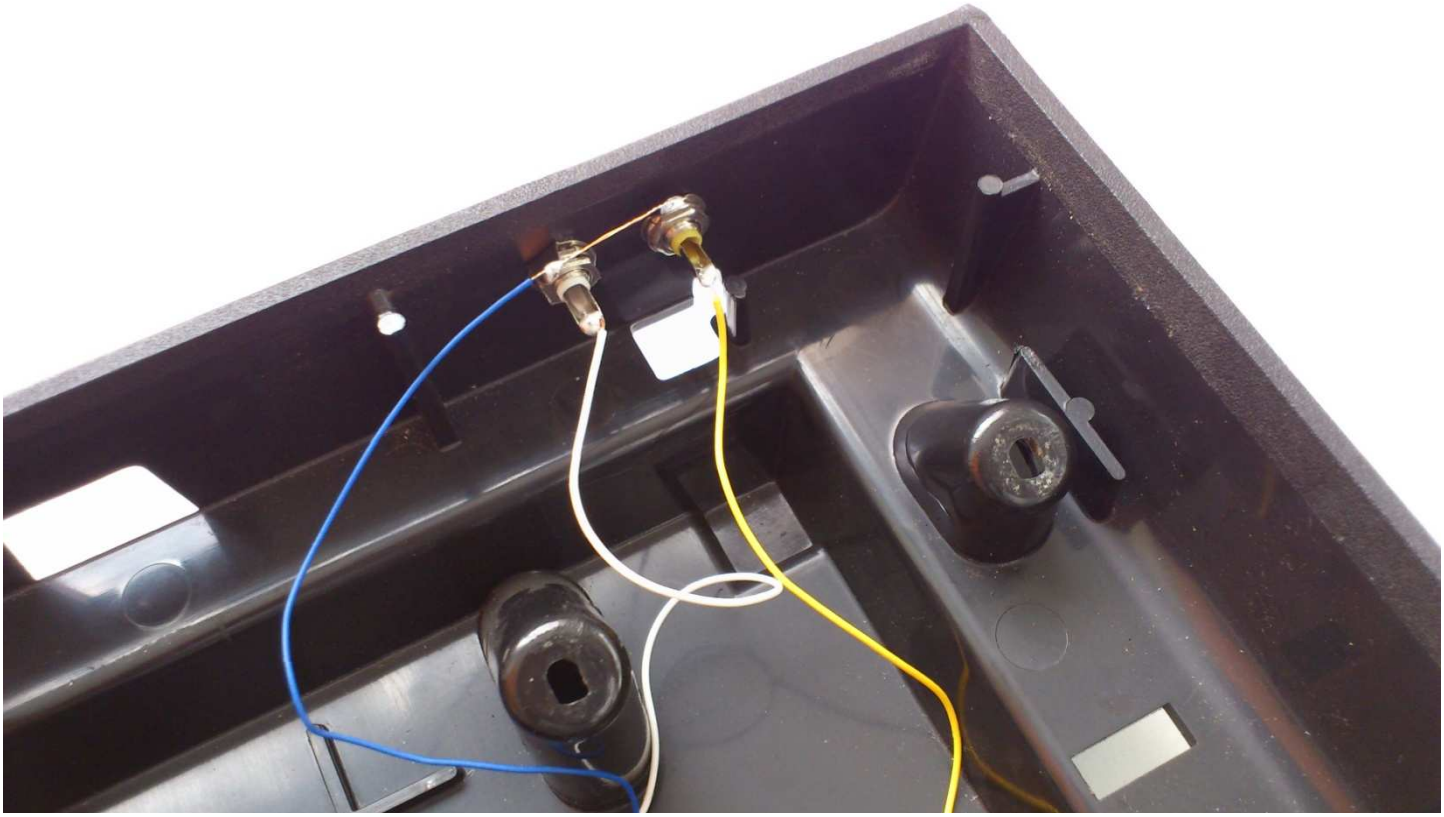

VCC
A in
A out
V in
V out
GND out
GND in

Step 5:

Open two ¼" holes at the back of your case. Mount the A/V jacks and thighten the nuts with your needle-nose pliers.

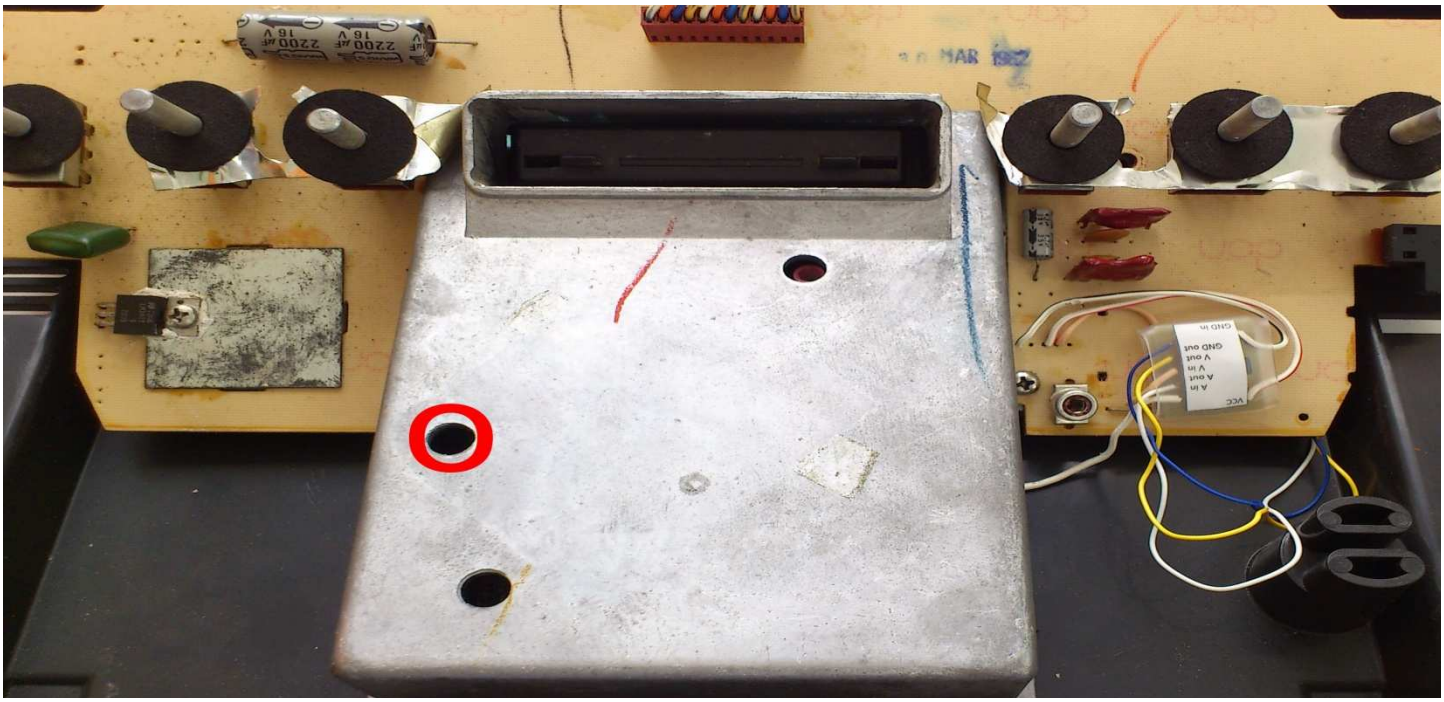
Step 6:

Now, solder the **V out** wire to the center pin of yellow jack, **A out** wire to the center pin of the white jack(this jack may be supplied as red, also). Solder the **GND out** wire to the outer terminals of both jacks.



Step 7:

Now, it is the time to test and adjust the mod before putting the console together. Put in a game cartridge. Hook up your system to your Tv and turn on your system. If the colors look right, go on and re-assemble the console. If colors look weird, take a flat-head screw-driver and adjust the color to your taste by turning the pot shown below clock-wise or vice versa.

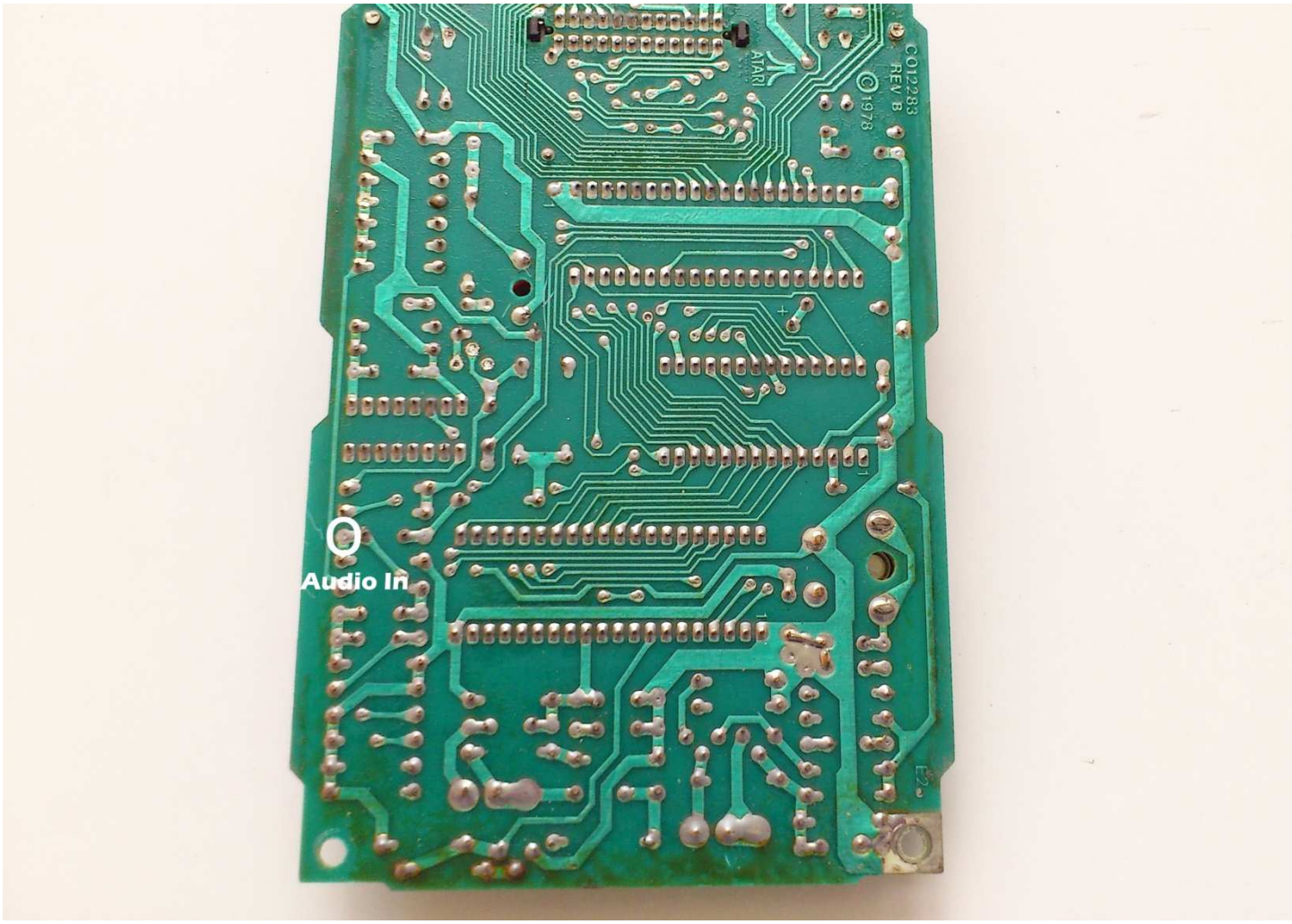


Final Step:

When all is done, simply re-assemble your console and enjoy your upgraded Atari 2600.

6-Switch Model Installation – PAL

PAL installation is very similar to NTSC. Remove the Q202 and R213 if there is one on the board. Audio In should be taken from the spot shown below. For the rest, follow the NTSC guide.



Have Good Gaming Sessions!

Please do not hesitate to contact if you have anything to share or a question to ask via
m_jonturkk@hotmail.com