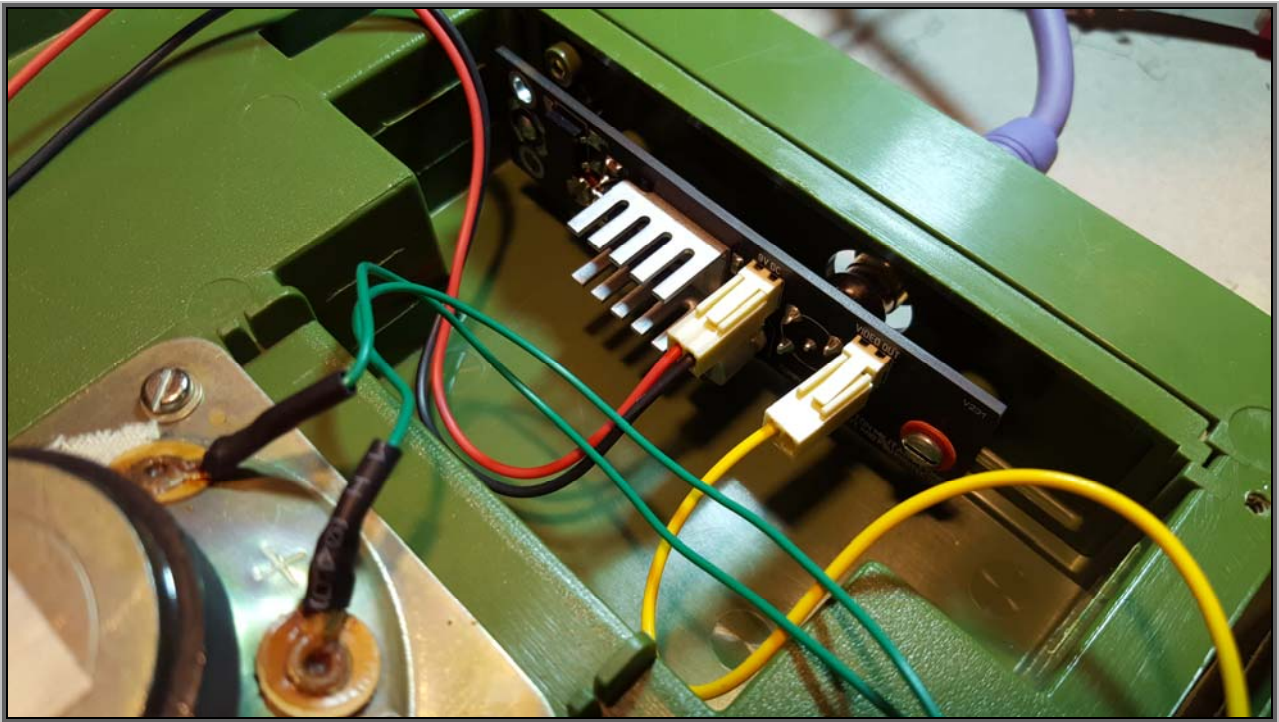


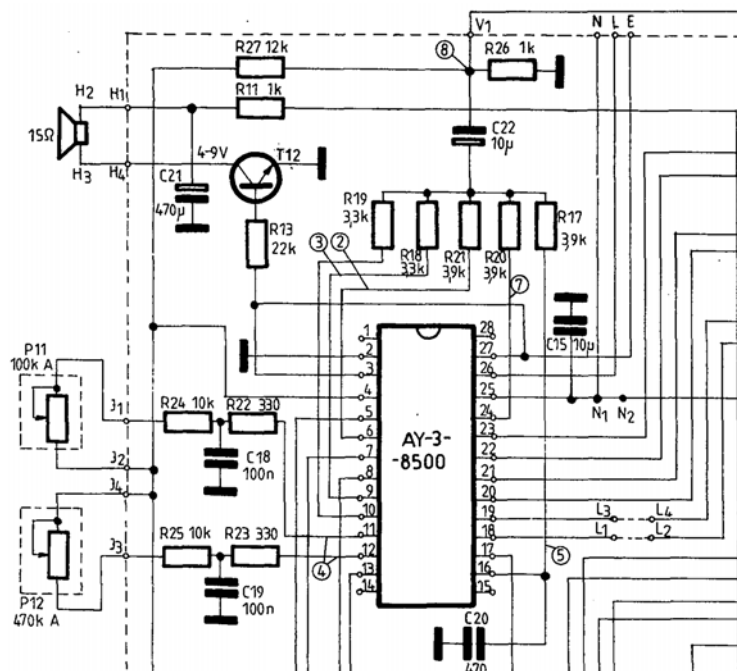
Videoton Military Pong Composite Modding kit howto

V3.1



Kit includes the following parts:

- 1× pcb board with soldered parts
- 4× KF2510 pins
- 2× KF2510 pin housings
- 4× 1N4148 diodes
- 1× 2kΩ trimmer potentiometer
- 2× power connector: with 2,1 and 2,5 mm center



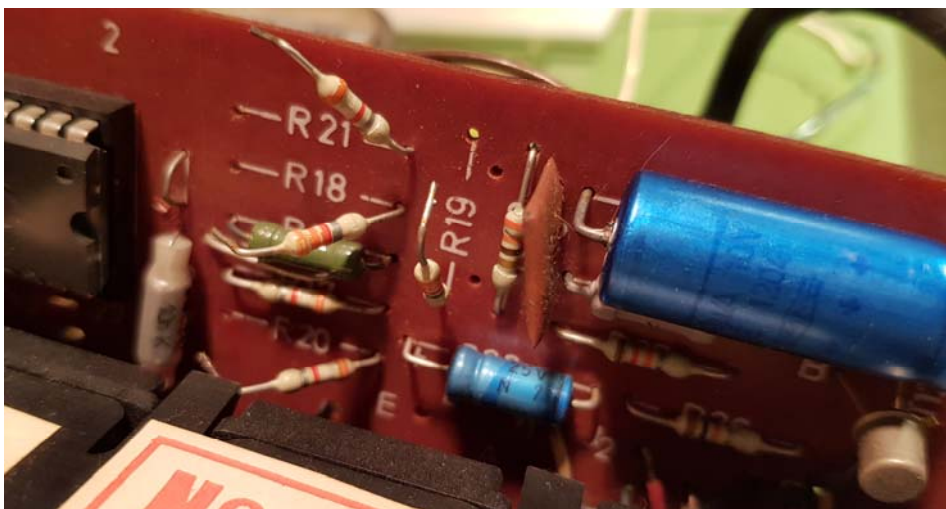
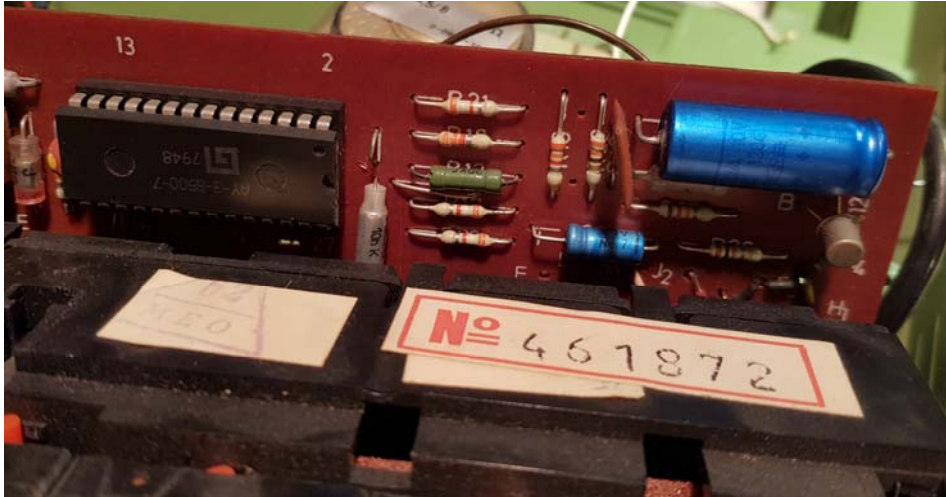
STEP01 – Disassembly the pong housing. There are some screws at the bottom (4+2 screws) and under the battery lid (2 screws). Remove the top plastic housing part. Loosen the mainboard and after narrow this place. Cut the wires from the old RF box.



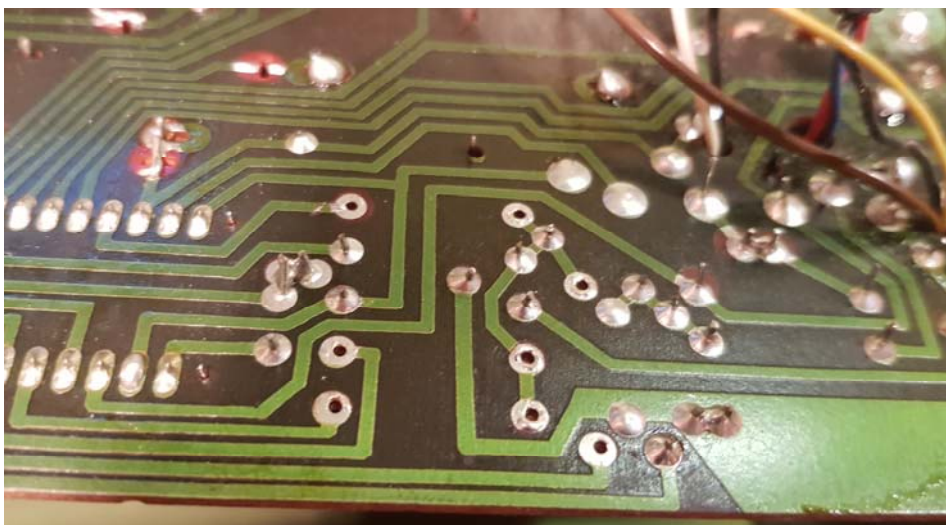
STEP02 – Remove the RF box from the housing and unscrew from the panel.



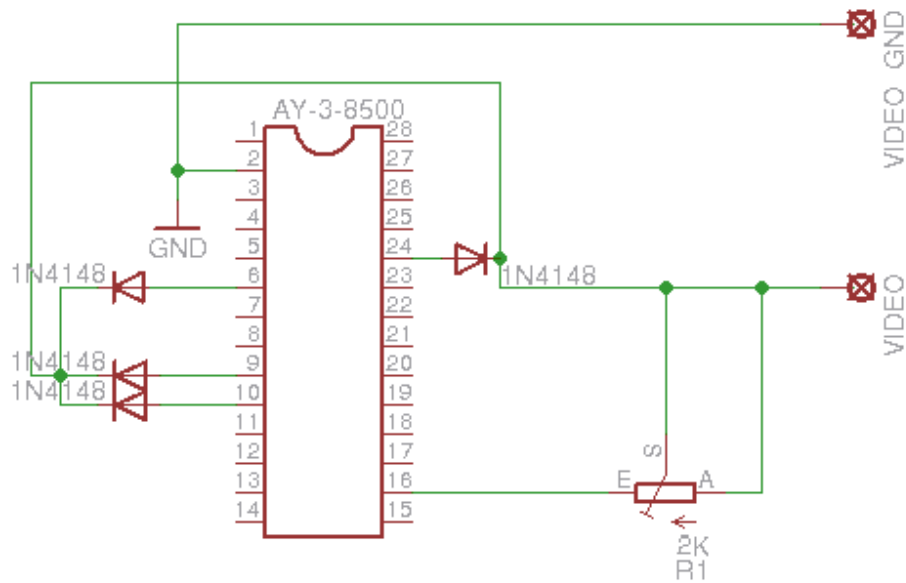
STEP03 – Narrow the mainboard top side. Locate the R18, R19, R20, R21 resistors. Remove these parts from the mainboard.



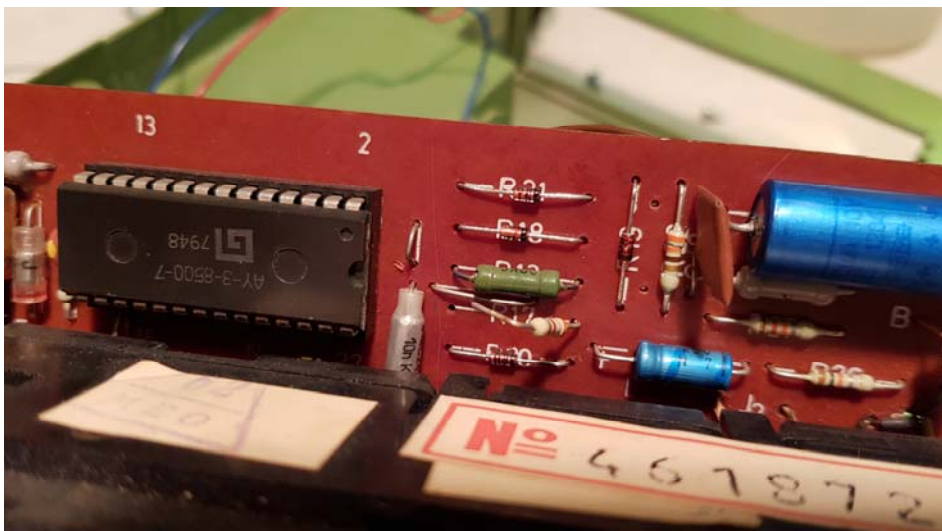
STEP04 – Turn it on the mainboard! With a desoldering braid carefully remove the tin solder from the holes. One by one. It's easy cause the pcb has one copper side only.



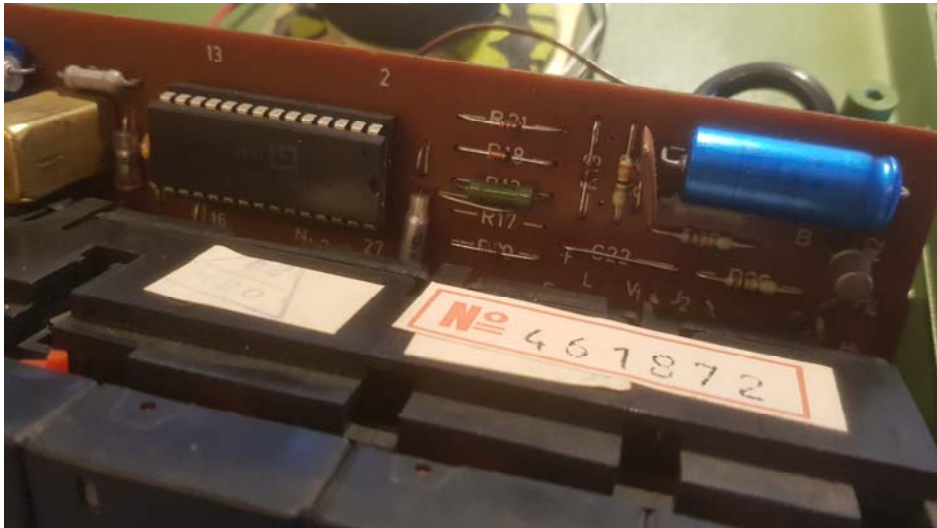
STEP05 – Solder iron the kit included four diodes. Pay attention to the polarity! The next figure will help you.



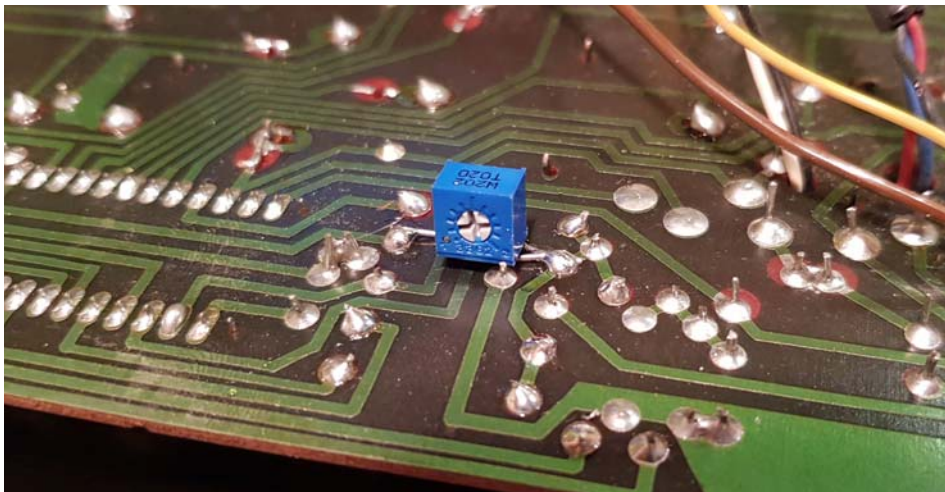
STEP06 – Narrow and remove the next parts from the mainboard: the R17 resistor and C22 electrolytic capacitor.



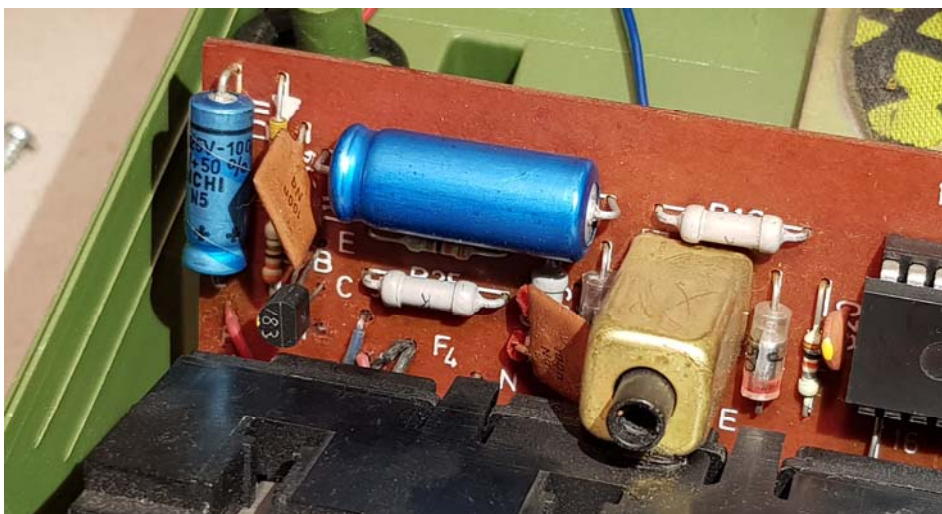
STEP07 – With a small wire or a resistor/diode leg, short out the C22 capacitor.



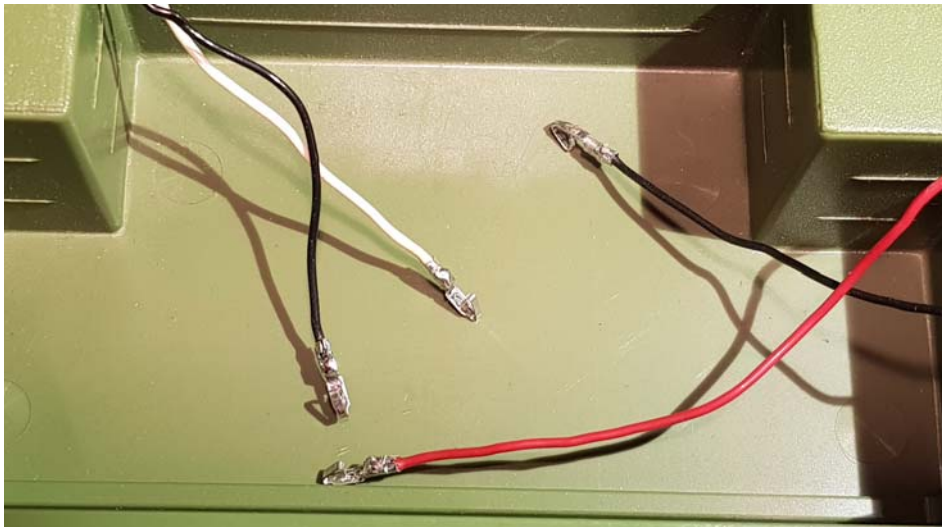
STEP08 – Turn on the mainboard. Insert the small trimmer potentiometer to the R17 resistor place and solder iron to the vias. Use again the schematics if needed from STEP05.



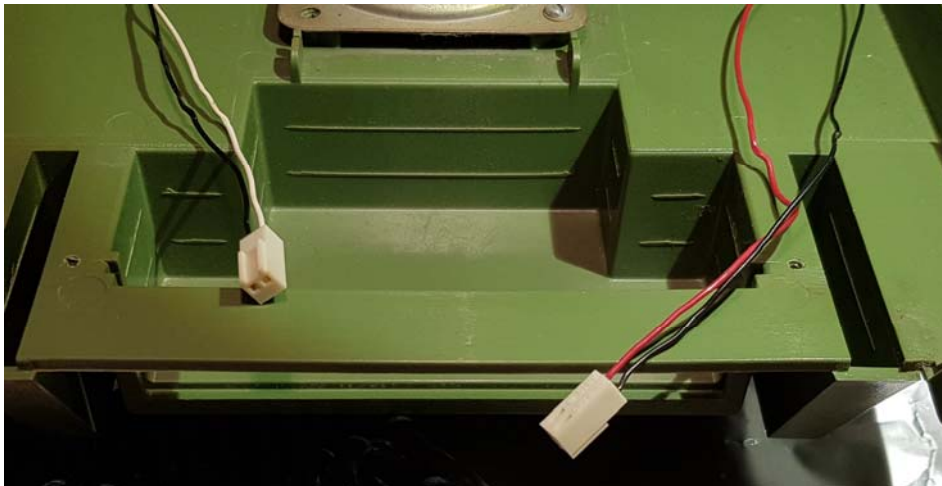
STEP09 – Narrow the next place. Remove the blue wire from the mainboard, labeled S1.



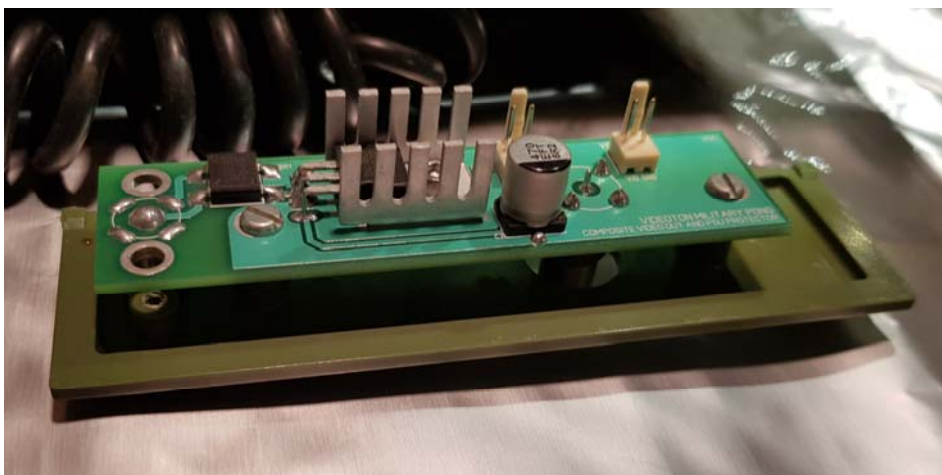
STEP10 – Solder iron the pins to the remaining wires. Its red, white and 2x black. The red is the 9V (P3), the white is the composite video out (V1), and the blacks are the grounds (F3 and F4).



STEP11 – Attach the pin housings. Pay attention to the polarity!

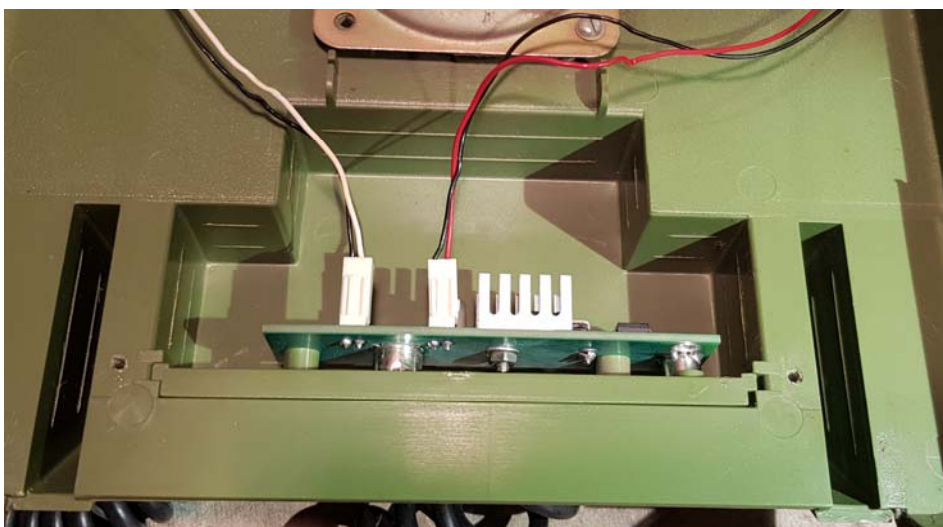
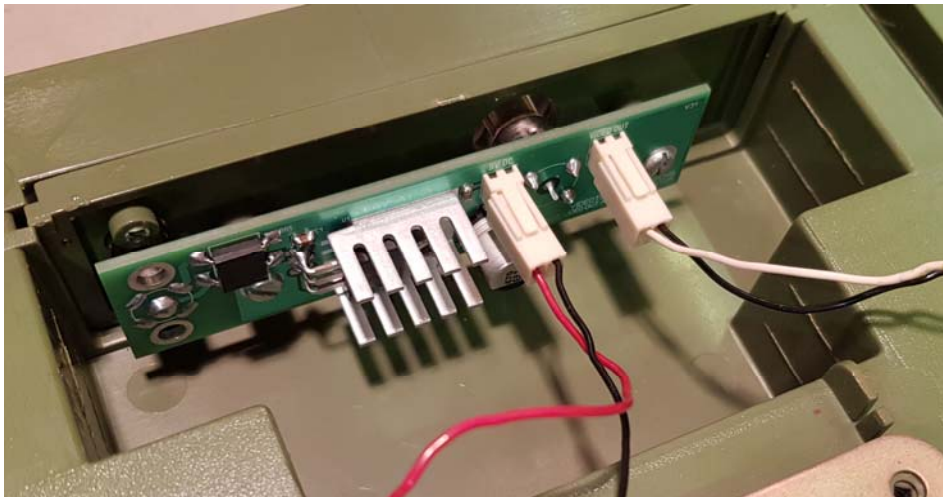


STEP12 – The kit included two power connectors: with 2,1mm and 2,5mm center pin. Plug in to your PSU both one and select which will fit better. Solder the selected connector to the pcb. Use the screws to fix it to the tiny green panel.





STEP13 – Install the pcb with the tiny panel to the pong. Be carefully cause no more enough space here. A good trick about loosen the screw or screws between the pcb and the tiny panel until not slide to the right place.



STEP14 – Verify everything one more time, and power up the pong. Set the trimmer potentiometer until you got the best composite picture!



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