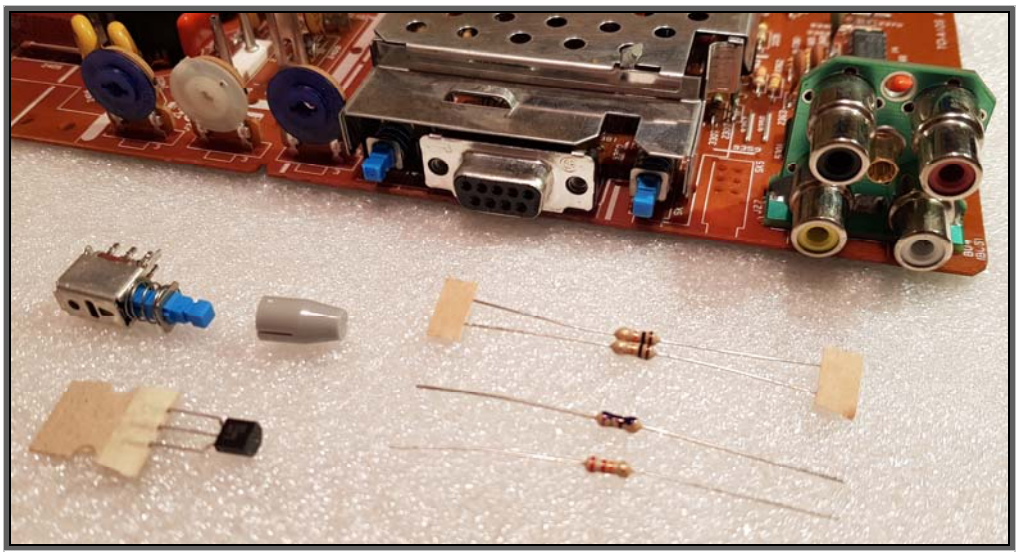
Philips CM8833-II s-video modding kit howto

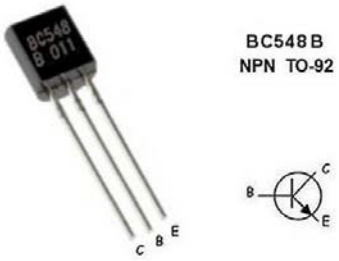
V1.1



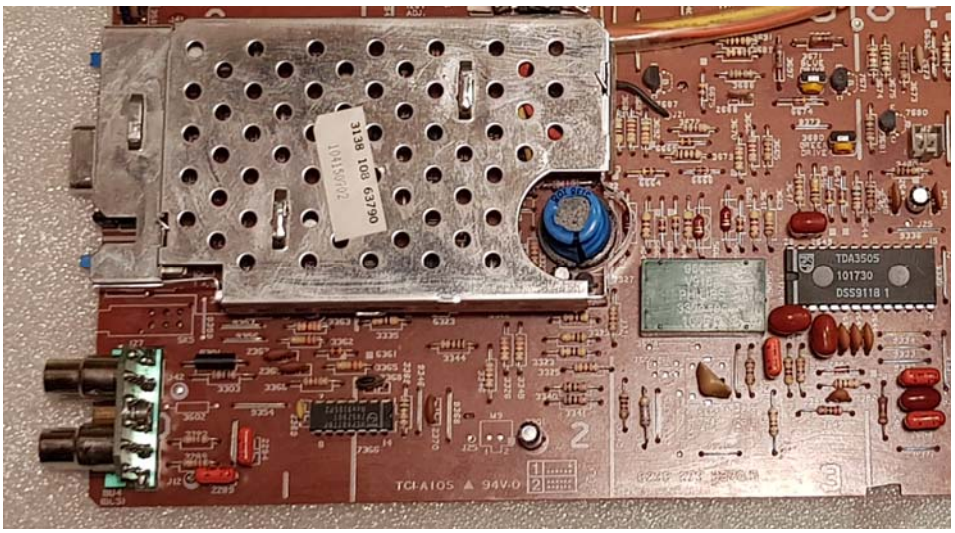
Kit includes the following parts:

- 1× 75Ω resistor (color code: violet / green / black / gold)
- 1× 22kΩ resistor (color code: red / red / orange / gold)
- 2× 10kΩ resistor (color code: brown / black / orange / gold)
- 1× BC548B transistor NPN
- 1× DPDT switch
- 1× cap for the switch

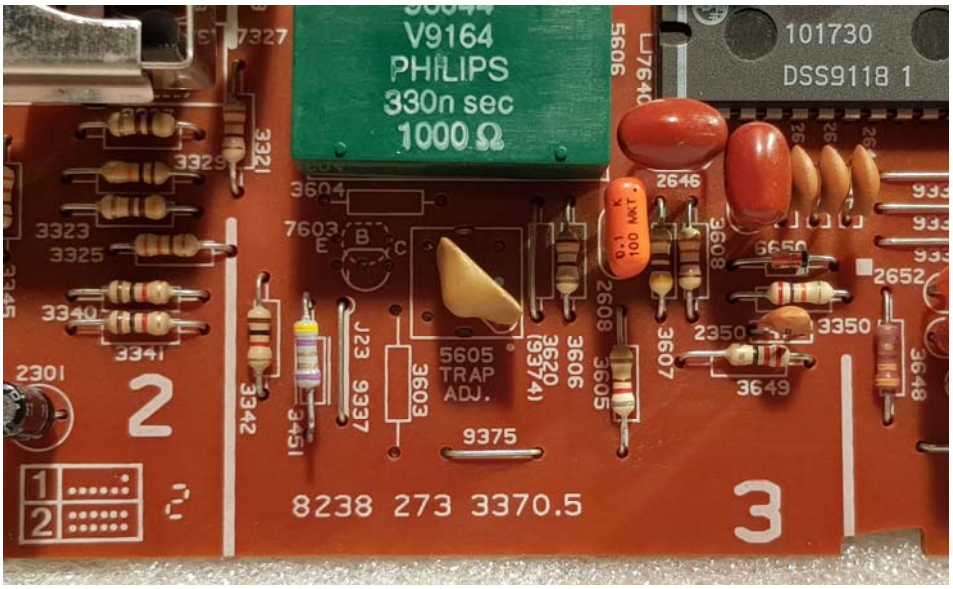
This is the transistor pinout:



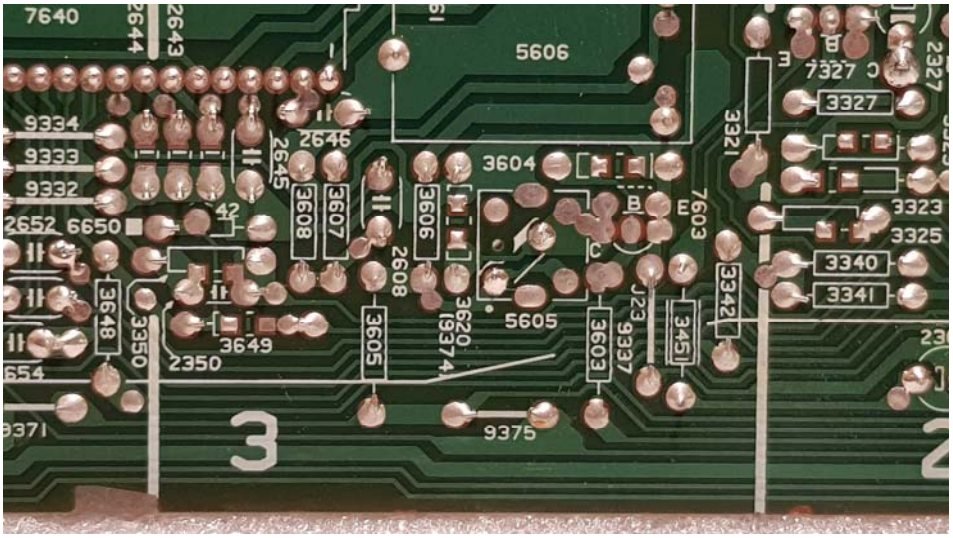
STEP01 – Prepare the mainboard and narrow this place.



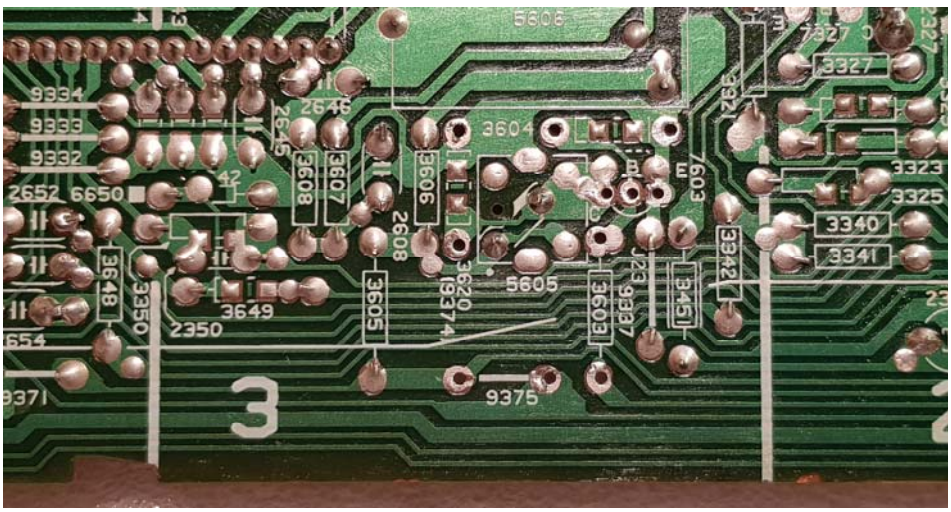
STEP02 – Locate these positions: *3603*, *3604*, *7603*, *9374 (3620)*, *9375*.



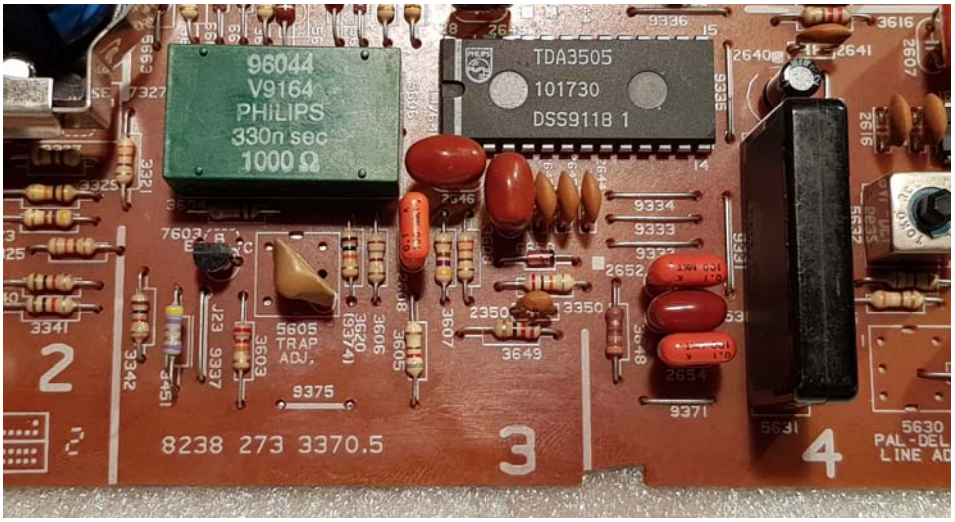
STEP03 – Turn it on!



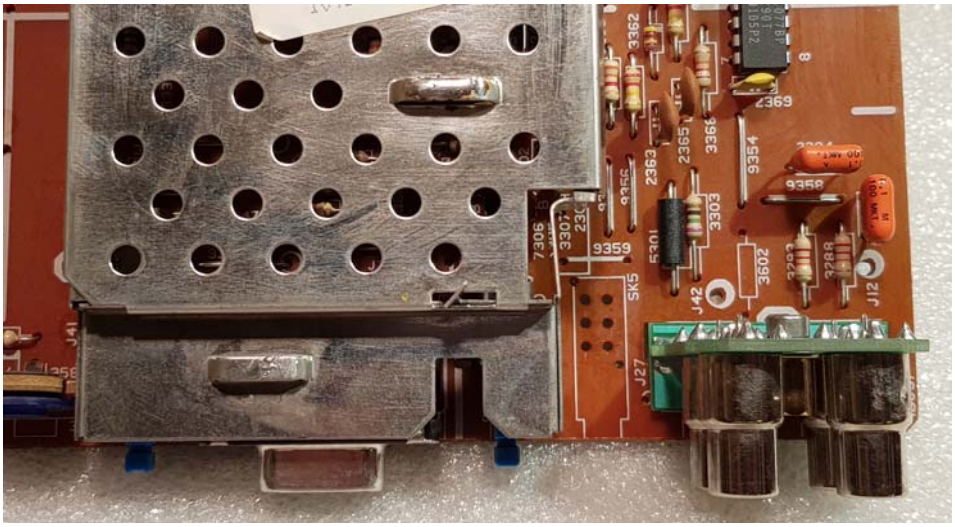
STEP04 – With a desoldering braid remove the tin solder from the holes (*3603*, *3604*, *9374 (3620)*, *9375*, *7603*). It's easy cause the pcb has only one side copper. Remove the wires from *9374 (3620)* and *9375*. One wire kept for later!



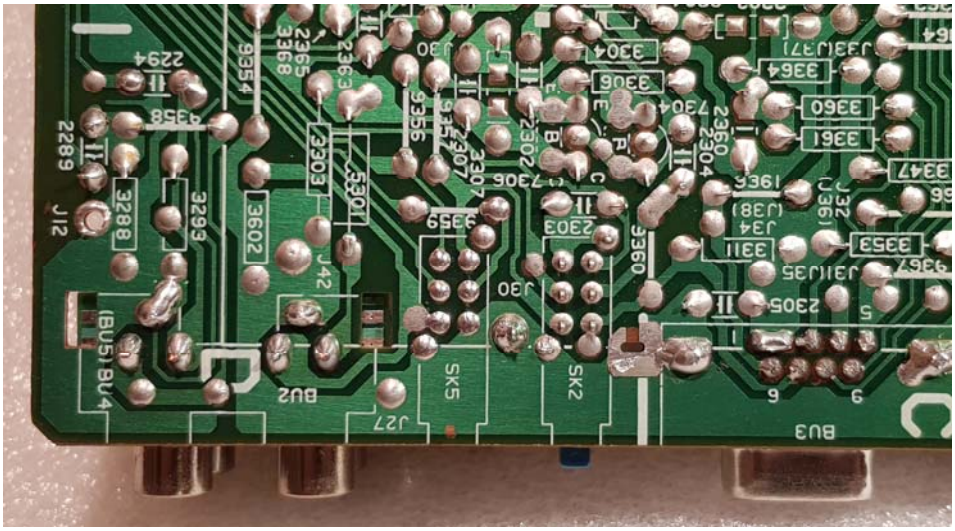
STEP05 – Solder iron the corresponding parts to the right places: 22kΩ resistor to *3603*, 10kΩ resistor to *3604*, 10kΩ resistor to *9374 (3620)*, BC548B transistor to *7603*. Pay attention to the transistor polarity!



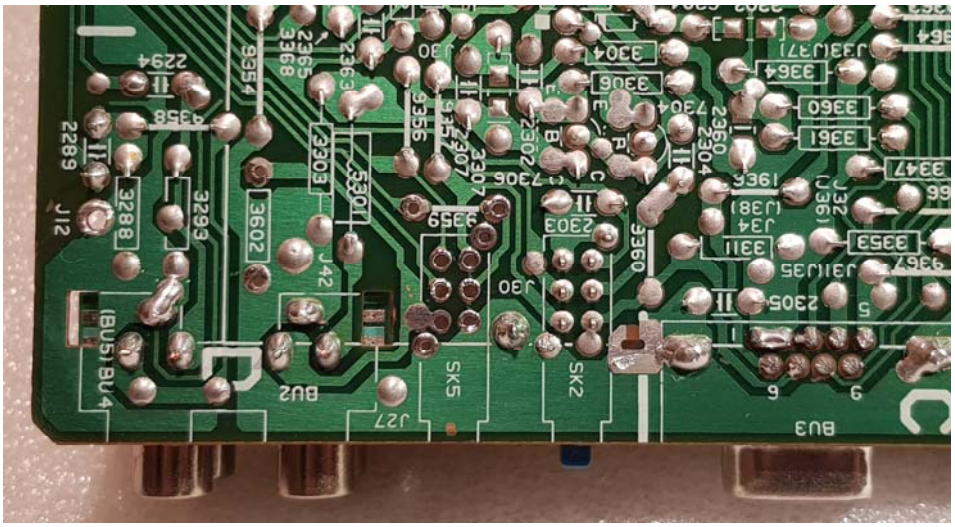
STEP06 – Narrow this next place on the mainboard.



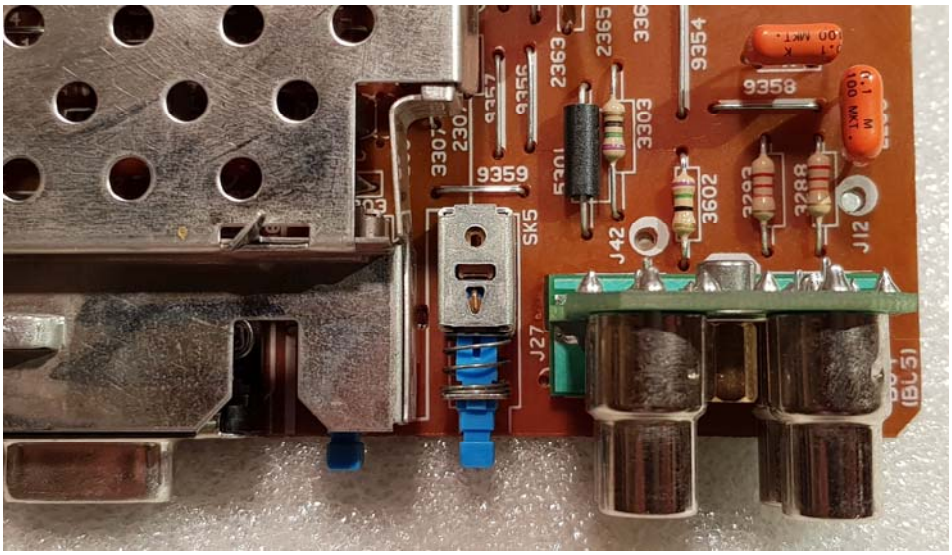
STEP07 – Turn it on again!



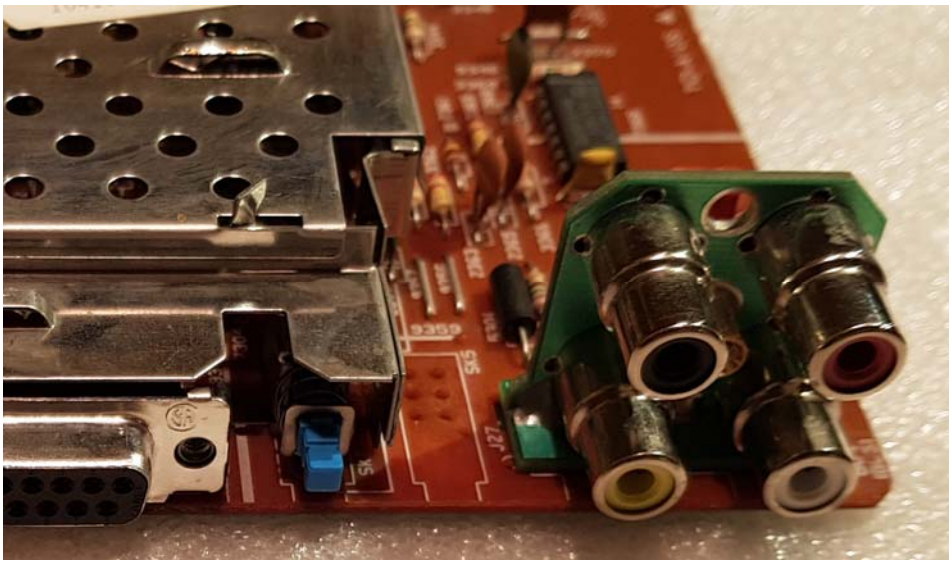
STEP08 – Remove the tin solder from the holes (*3602*, *9359*, *SK5*).



STEP09 – Solder iron the rest parts to the right places: 75Ω resistor to *3602*, the separated jumper to *9359*, switch to *SK5*.

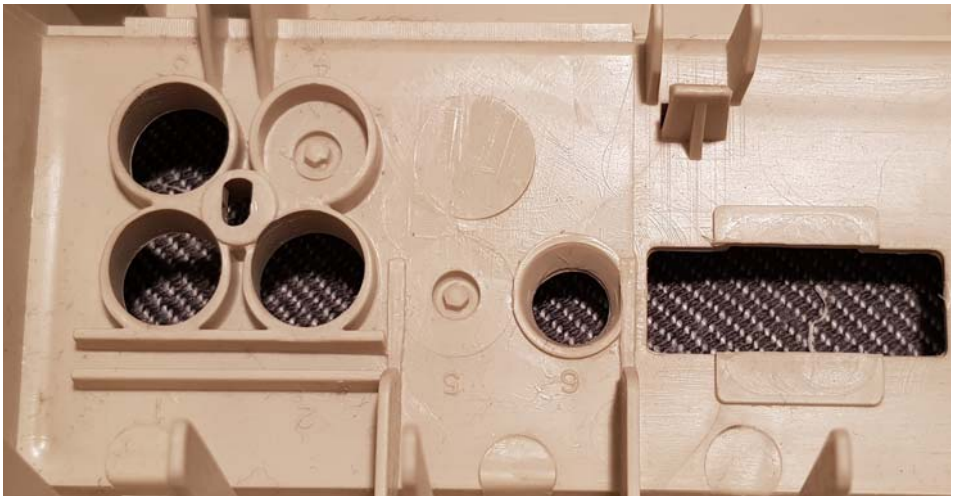


STEP10 – Dont forget the 4×RCA connector panel to get working the luma+chroma line on the monitor (already installed on the pics - available at idoregesz.hu)



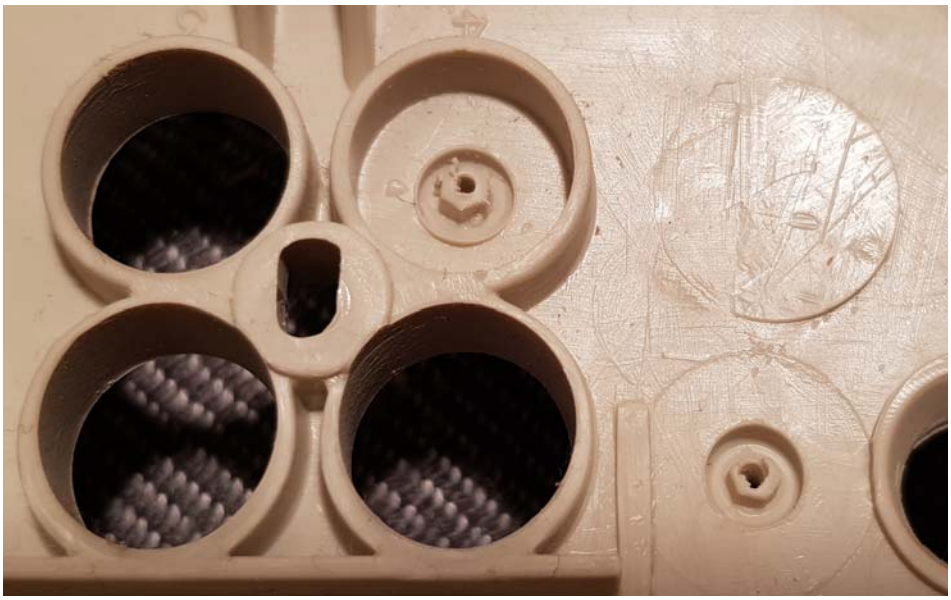
STEP11 – The next steps are the fabricating of the plastic housing.

STEP12 – Turn on and narrow this place inside.



STEP13 – Drill two small holes carefully to the center of these places using a ~0,8 – 1,0 mm drill bit.

STEP14 – The results are looks like this.



STEP15 – Turn it on the housing.

STEP16 – Use a step cone drill tool to increase the holes size. Drill the fourth RCA hole very slowly and with carefully until ~10-11mm diameter.

STEP17 – Do the **STEP16** to the second hole (CVBS/LGA). Drill up with carefully to ~7-8mm.

STEP18 – Use a needle half-round file tool to increase the holes size. The fourth RCA hole up to 12mm.

STEP19 – Same with second hole, this is the CVBS/LGA switch, up to 9mm!

STEP20 – How it should looks like finally. That's all!

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