

Repair monitors: Philips CM 8832-2 & 8833-2

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Warning:

Working on a monitor can be life-threatening. Voltages of up to 25.000 Volts are present. Provide proper tools, think about your own safety and that of others.

There are many different types of color monitors for the MSX computer. In general, the repair is similar. Many brands have made color monitors, such as Philips, Ancona, Commodore, Atari, Grundig, Slipstream, and so on.



Philips CM 8833-2 color monitor.

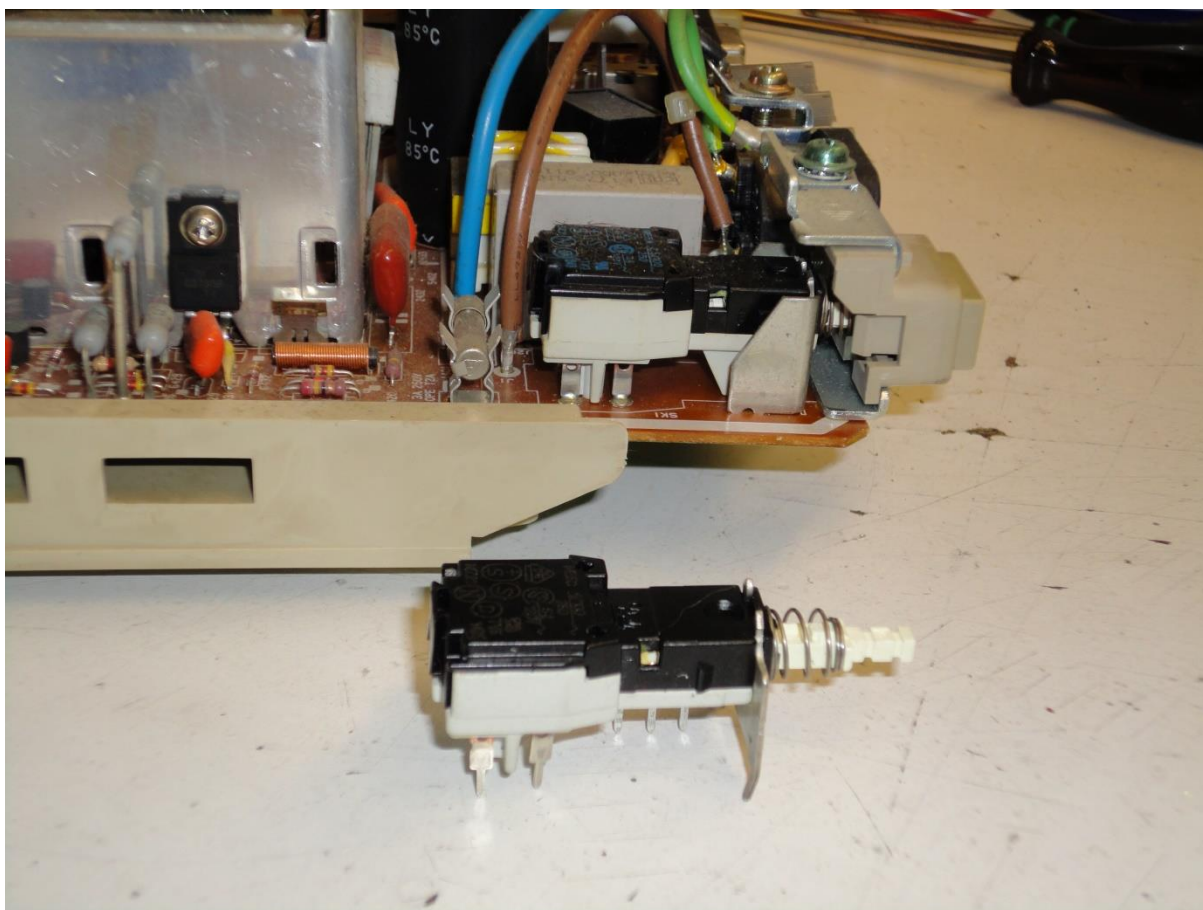
The description below is based on the Philips CM 8833-2. The description below does not provide the correct information for the Philips VS 0080 and the Philips CM 8833-2, among others. Other guides have been made for this.



Philips CM 8833-2 rear side.

Faulty on/off switch

- Remove the switch by cutting it loose and removing the remnants.
- Solder the new switch to the vacant position.

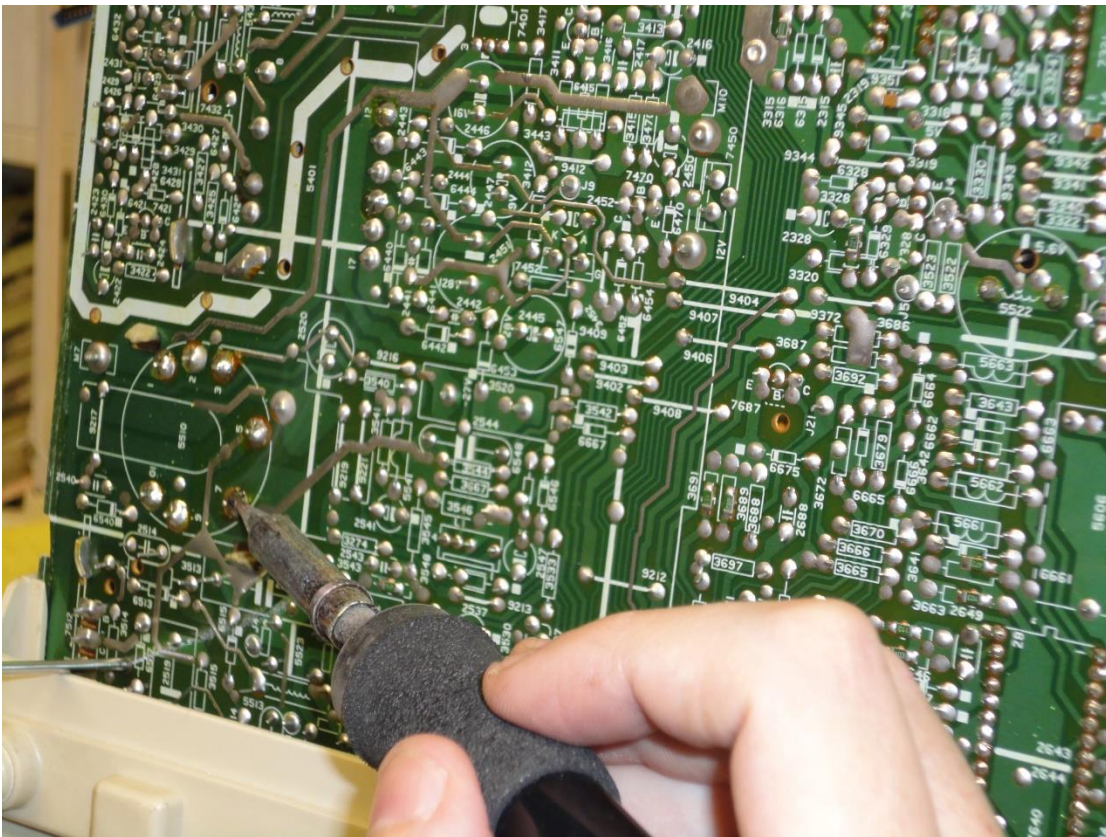


Defective switch connected to the power supply PCB and a loose new switch.

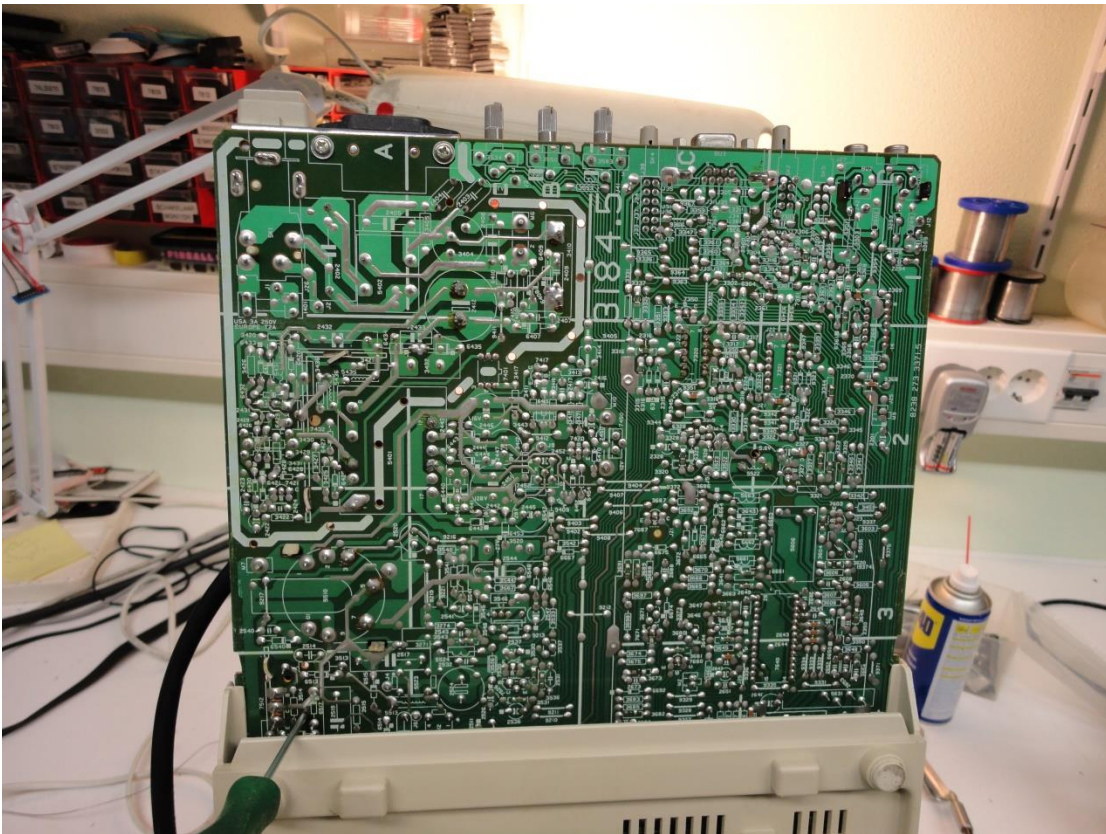
Various problems

Another problem with the monitor is that after prolonged use, a prolonged standstill, a lot of changing cables or being transported a lot, various parts become loose. This will result in the monitor becoming unstable. Print spot fractures are often invisible to the naked eye, so it is wise to re-solder several parts. In order to be able to reach everything, the main board has to be removed. The metal shielding plate also has to be removed (not for all types). The solution to this is to re-solder several parts:

- 5401 (power supply transformer)
- 5510 (high voltage transformer)
- RGB-connector
- Audio/Video-connectors
- 7270
- 7290
- 7295
- 7320
- 7321
- 7366
- 7610
- 7640

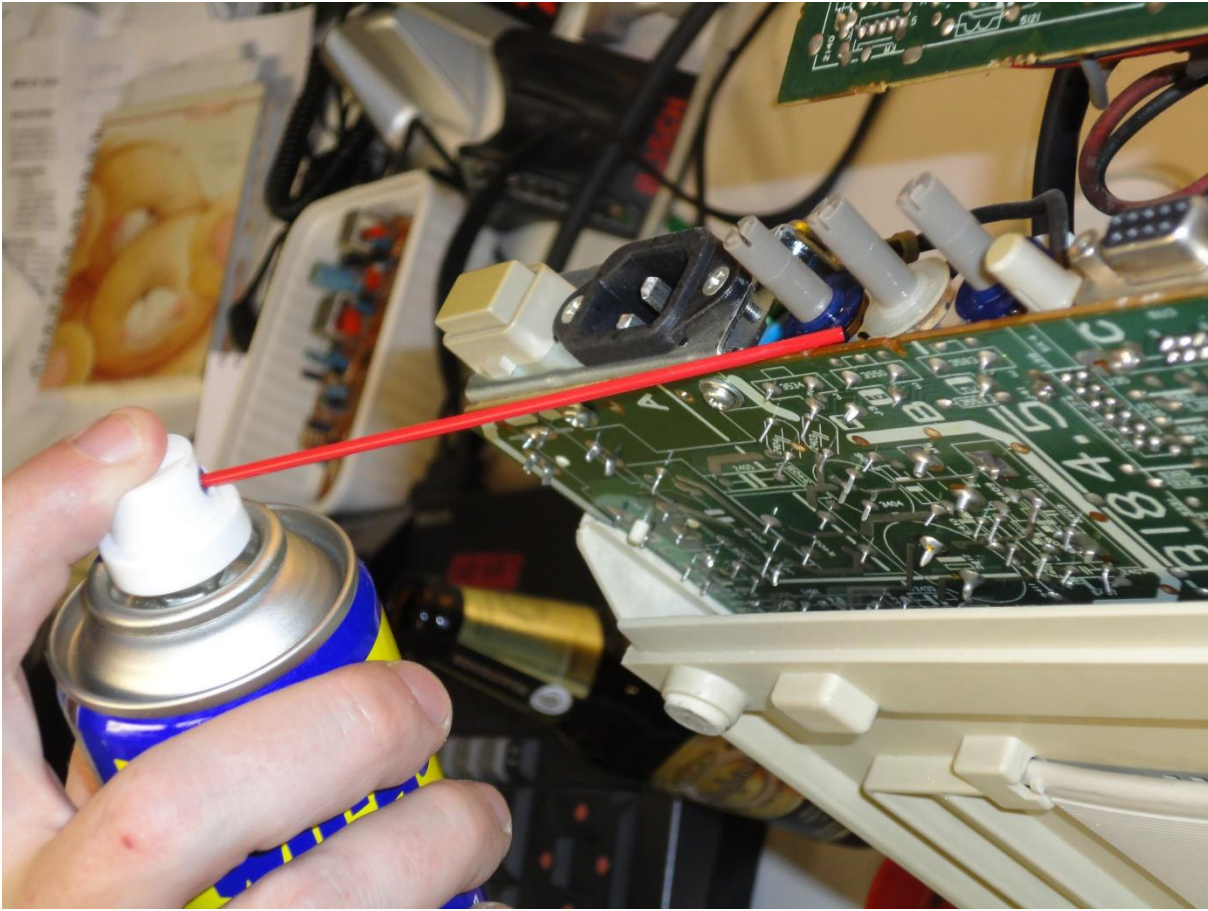


Soldering using proper tools.



The solder side of the main PCB.

Use contact spray to properly spray all potentiometers (regulators) on the front and rear, so that oxidation disappears. Wipe off any excess contact spray with a cloth.



Inject contact spray into all potentiometers.