

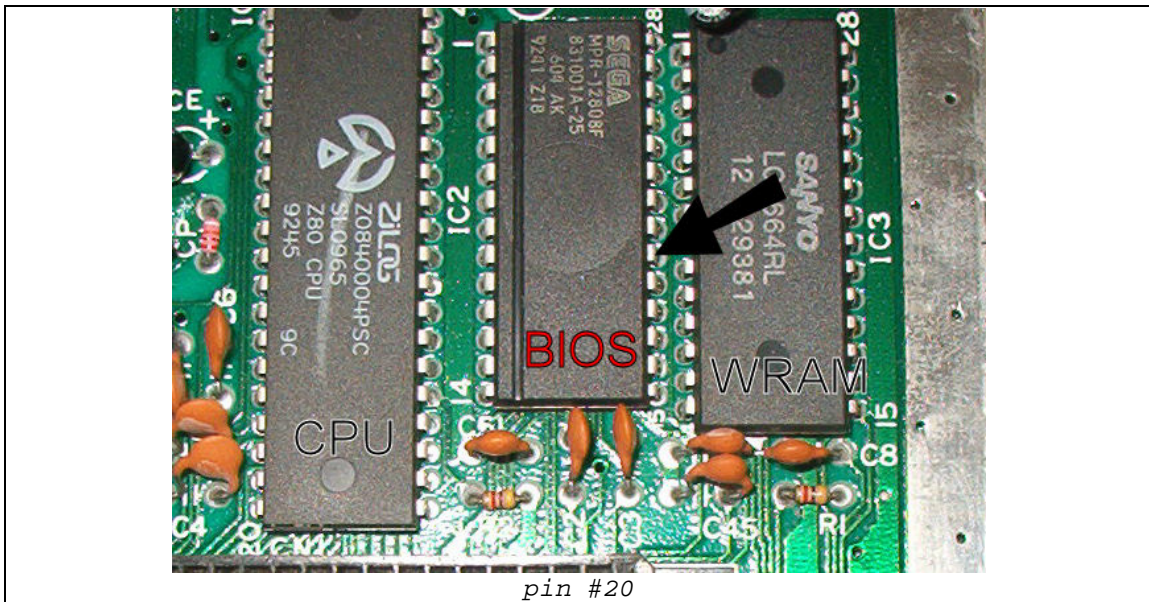
**TUTORIAL Master System:
Disable BIOS**
By David Senabre, February 2006

This document is based on an original written in Spanish.
It is a very brief translation for people who don't speak Spanish.

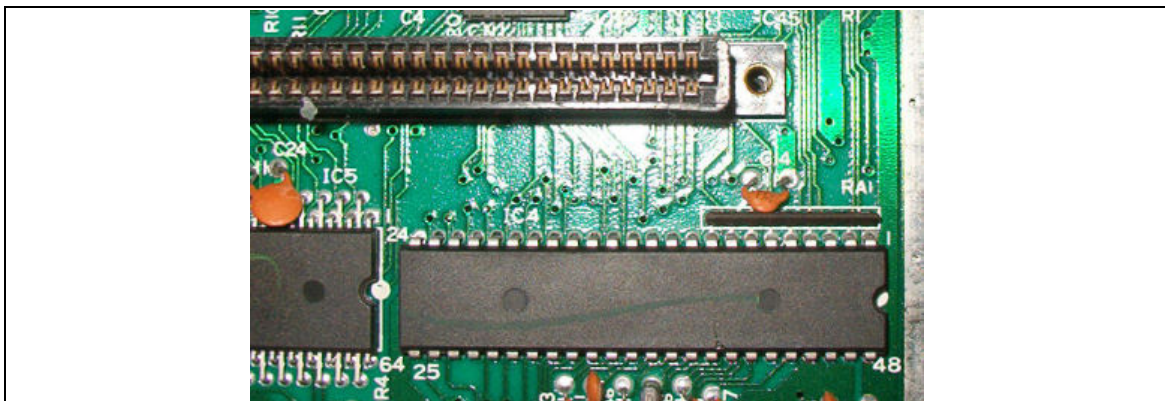
MASTER SYSTEM II

The BIOS is connected to a high priority enable signal, that makes it load at power up. BIOS checks weather there's a game in cartridge, card or expansion port, and loads it if checksum is correct.

In Master System II, BIOS is next to z80 CPU. The high priority signal is conected to pin #20 of BIOS chip. If you only want to disable BIOS, just disconnect it. Cut the track, cut the pin... whatever you like. Maybe just disconect it from 5V or GND.

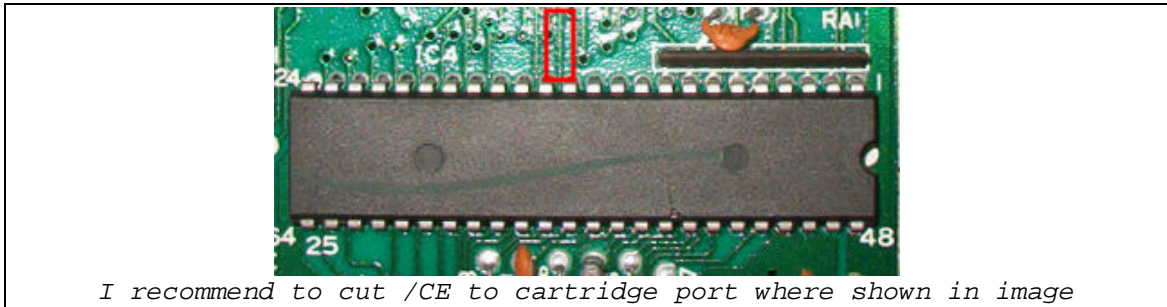


Then you will have to take /CE0 (high priority signal), that you just disconnected, to cartridge port. So replace its /CE signal with /CE0, and that way cartridge will load at power up.

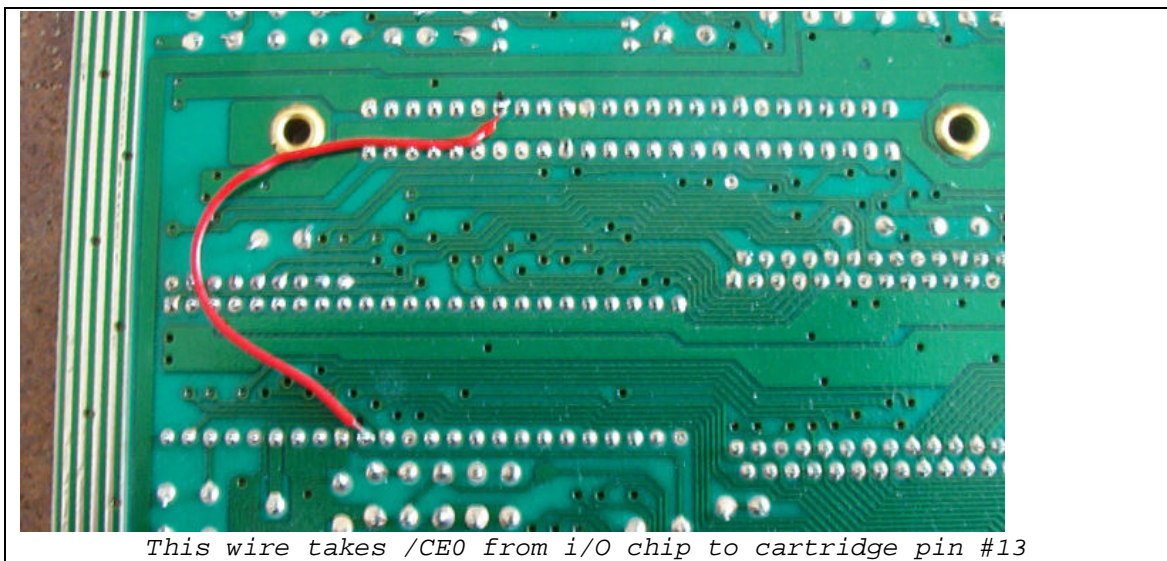


/CE0 is generated by I/O chip, 315-5237 (see above).

Just solder a wire from pin #39 (/CE0) of I/O chip, to pin #13 (/CE) on cartridge port. Then cut the track that goes to pin #13, otherwise both /CE and /CE0 would be connected to same point.



Now you just disabled BIOS and enabled cartridge port.



MASTER SYSTEM I

In Master System I you can enable card and expansion port too, connecting /CE0 to them too. But be careful to not use more than one at a time.

The board is different, so are some chips, but the only difference is that /CE0 signal now comes out of pin #1 of 315-5216.