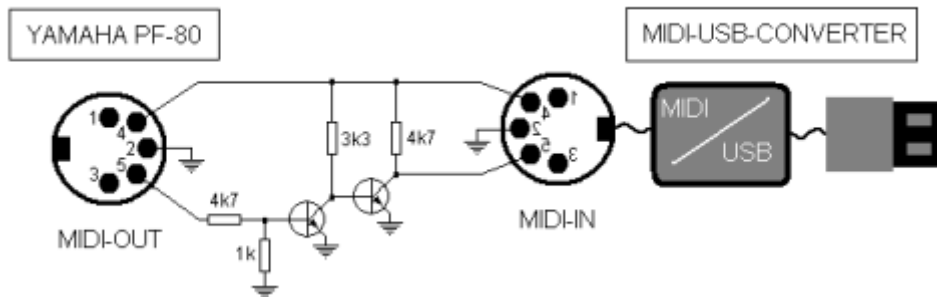


## MIDI – Interfacing

Connecting a YAMAHA PF80 keyboard to a standard USB-connection doesn't work out of the box. Though the [MIDI standard](#) is worldwide accessible there are some hardware incompatibilities between older and newer instruments. One of the central recommendations in MIDI hardware design is to decouple the groundline between the devices. In newer equipment, especially cheap MIDI USB Converters, this idea doesn't seem to play a role anymore.



It took me some time to find out what was going wrong. One way (possibly the only one) to make a YAMAHA PF80 run over an USB connection is to connect it with a homebrew interface to a cheap MIDI USB Cable (note that ground connection must be accessible on both MIDI-connectors).

[Arvydas](#) describes his modification at the same converter. Instead of some external parts he adds a missing opto-coupler inside the converter to meet the MIDI standards.