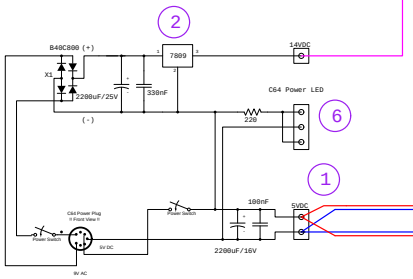
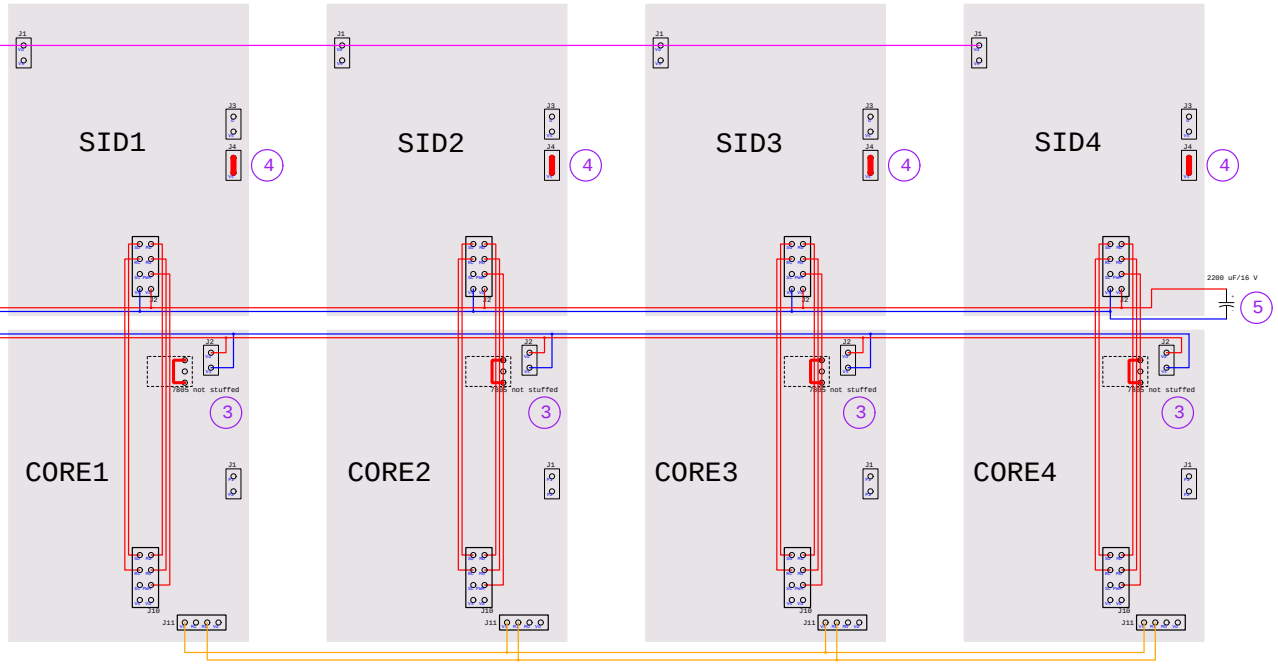
Only valid for MIDIbox SID V1 !!!

Wiring of MIDIbox SID V2: see mbhp_8xsid_c64_psu_optimized.pdf





- the PSU circuit has been optimized for best signal/noise ratio of course, other variants are possible, but I cannot affirm if it works as good as this solution or not!

(1) the +5V/Ground supply lines for the core/SID module have been separated to avoid ground loops

(2) a 7809 removes the AC part of the SID module supply voltage. Without this additional voltage regulator you may hear a 50/60 Hz humming sound at the SID output
Note: the smaller 78L09 can also be used!

(3) the 7805 regulators of the core modules have been removed. The Input/Output line of this IC has been shortened so that C5 of the core module (ca. 1000 uF is ok) is directly connected to the +5V input

(4) the unused Audio Input of the SID module is connected to ground

(5) the additional cap at the last SID module reduces high frequency digital noise

(6) the C64 power LED can be connected to this socket

Results: no heat source within the case (since the +5V are regulated by the external PSU)
6581: -76 dB signal/noise ratio !!!
8580: -90 dB signal/noise ratio !!!!!

Reusing the Power Supply Unit
of a C64 for MIDIbox SID
(C) T. Klose 2003-06-22