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# PC Keyboard to Amiga Adapter

hardware redesign by Martin Clausen (mc AT rotgradpsi DOT de), development featured by Rolands Amiga

**This is a adapter to connect a PC-keyboard to any Amiga. This is not programmed by me, I just made some modifications. Thanks to the authors who I do not know and I could not contact. It was freeware and it will stay freeware. I hope that is okay.**

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## Features

### Some strange key mapping

left windows	left Amiga
right windows	right Amiga
windows menu	left Amiga m (cycle screen)
right or left control	Control

the interface will send rawkey codes for these xtra keys as follow:

home	75
end	76
pageUp	77
pageDown	78
F11	79
F12	7a
printScreen	7b
scrollLock	7c

So you could use an external program to bother with these codes.

### Generation of a reset after a programmable delay

With this release the interface has the ability to perform a reset after a programmable delay. Why? For those who, have some hard drive spin up problem. The port P3 is a 8 bit register that define the duration of the delay.

Examples:

If you leave P3 unconnected nothing happens. If you tie low the P3.5 the delay before a reset will be 32 \* 70ms. All the pins of P3 at gnd and the delay will be 255 \* 70ms that's too much!

## Circuit Description

J2: solder the 5 lines of Amiga (kbClock, KbData, KbReset, 5 V, NC, GND) J1: wire a DIN 5 female to plug the PC-keyboard like this:

front view NOT solder view

```

/--v--\   1 = KBclk
|3   1|   2 = KBDat
| 5 4 |   3 = NC
|  2 |   4 = Gnd
\_____/   5 = +5v

```

At some A500 manuals pin 1 and 2 of the keyboard connector are swapped!! \*arrgrrrr\* In this case you will get a lot of "\*\*\*\*\*" even without a keyboard!

Keep in mind that the AT89C2051 has no pullups at P1.0 P1.1 so pull P1.0 and P1.1 to GND

Signals are available at:

Amiga Clock	P1.3
Amiga Data	P1.4
Amiga Reset	P1.5
Keyboard Clock	P1.6
Keyboard Data	P1.7

## Parts

Semiconductors:

- 1 programmed AT89C2051; see also [programming tips](#)

Capacitor:

- 2 33pF cer
- 1 100nF cer (for decoupling)
- 1 1µF (for RST pin)

Mechanic:

- 1 11,0592MHz crystal
- 1 pbc
- 1 some thin wire
- 1 socket 20 pin
- 1 105 AT style keyboard !!

## Download of Program and Circuit

- [amiga.zip](#) program and hex-file for MCU; see also [programming tips](#)
- [amiga.gif](#) circuit

The part description in schematics is read as follows:

part type + value in exponential form + package description + subpart number in package

for example: C1040805,1 means Capacitor, 100nF, package SMD 0805, first subpart in package

Disclaimer: No warranty at all!

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