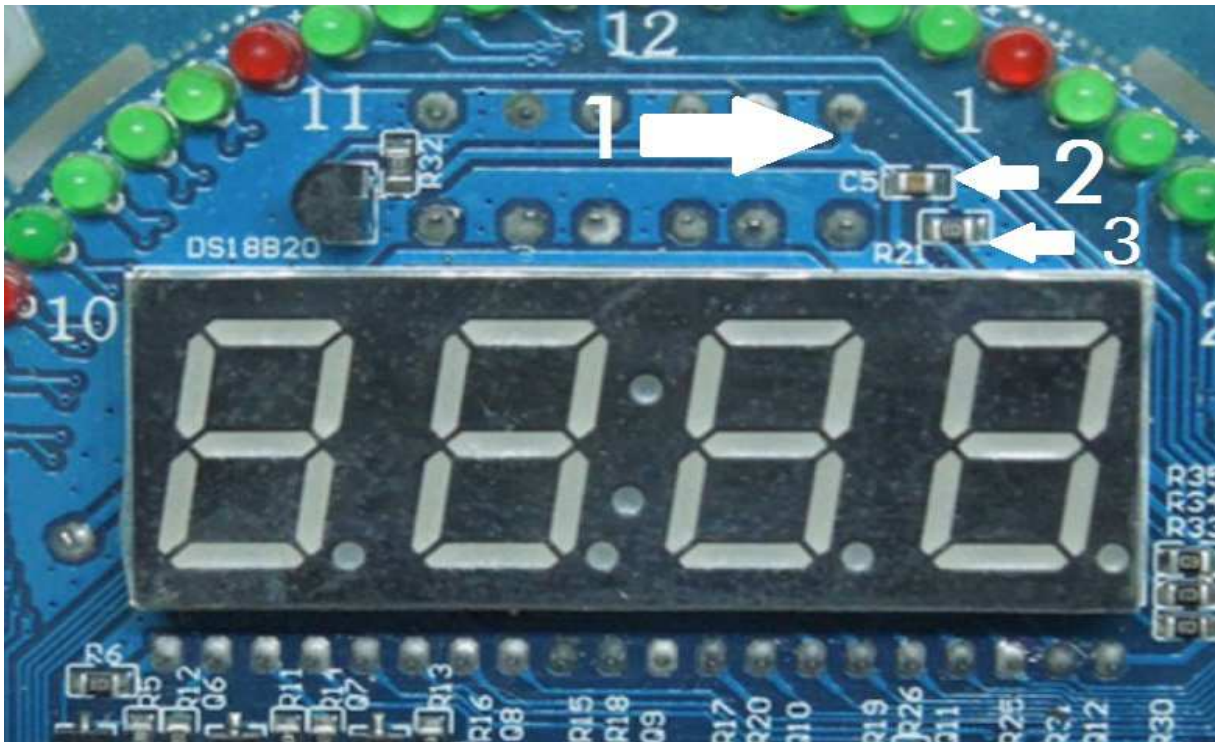
Modifications of the EC1204B board to use with an Atmel ATmega8515 or ATmega162:

Many, many thanks to Cristian Copcea , who described the necessary hardware changes in his blog. (http://blog.copcea.ro/?p=1252)

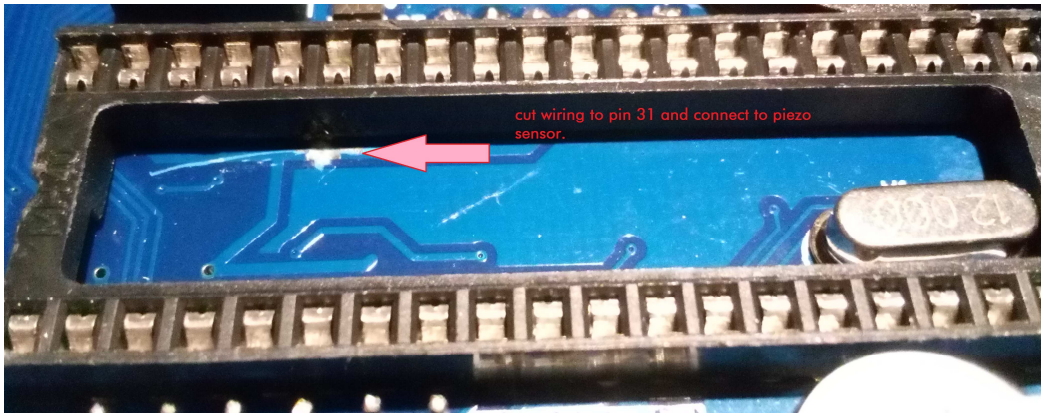


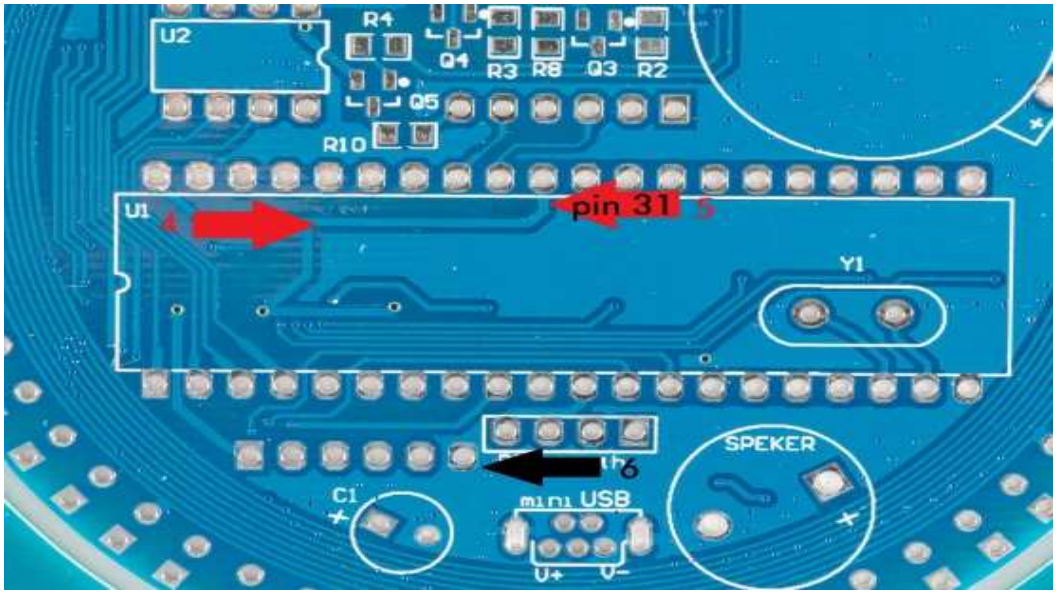
1)
   a) Cut wiring on PCB, removing the link from the reset switch to VCC.
   b) Solder a piece of wire linking the reset switch to GND.

2) Desolder C5.
3) Desolder R21. Solder R21 at the place of C5, building a pull-up resistor for the reset pin.

IMORTANT: Do not solder anything at the place of R21. A capacitor on the reset pin will make the processor unprogrammable through ISP (in-system programming), since the RST signal is handled by the programmer.

Modifications of the EC1204B board to use INT2 (pin31 of ATmega8515) as input for the nerf gun target detection:





4) Cut wiring on PCB, removing the link from VCC to Pin 31 of µC.
5) Solder the positive wire of the piezo stuff to Pin 31 of µC.
6) Solder GND of piezo stuff to GND of PCB.

Piezo schematic: