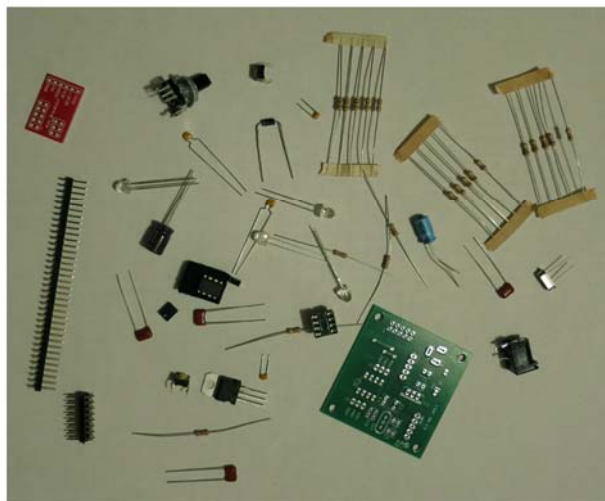


ATtiny45 Board Assembly Instructions

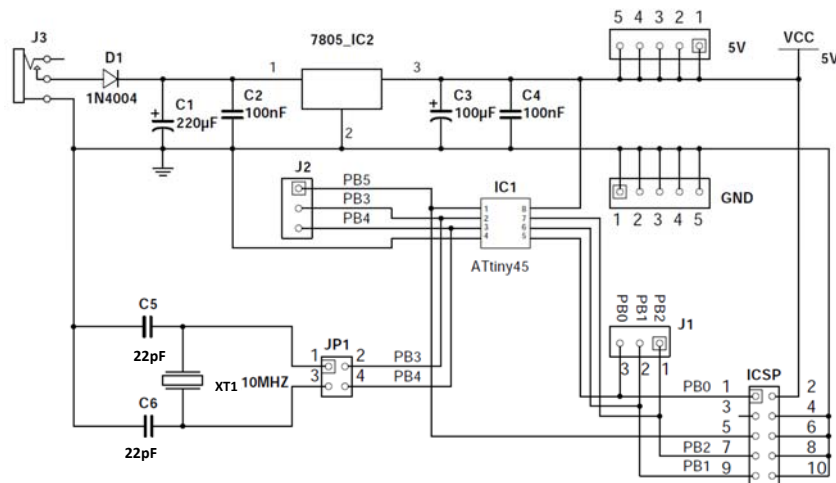
Embedded Systems – Spring 2014

Some of Kit_A's Components



... assembly (soldering, etc.) is required to build the Attiny45 μ C board!

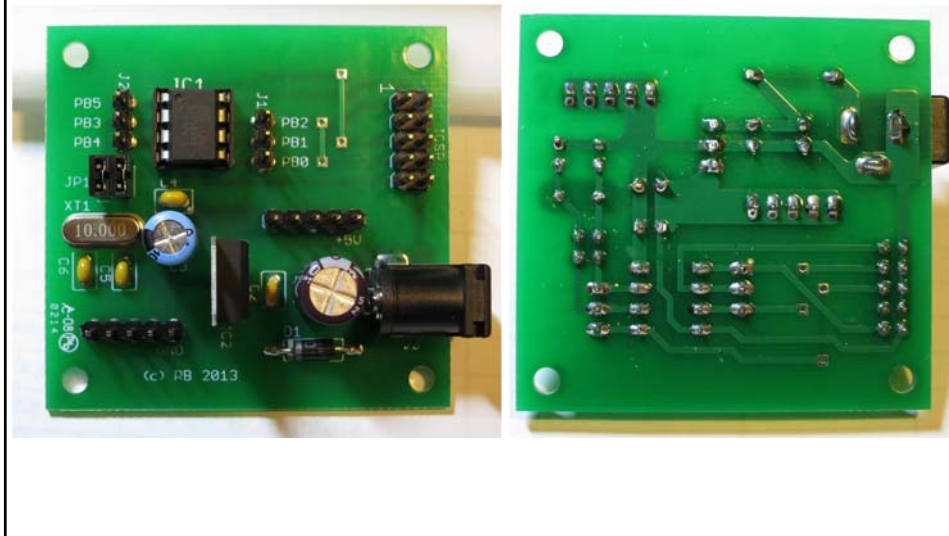
ATtiny45 Board Schematic



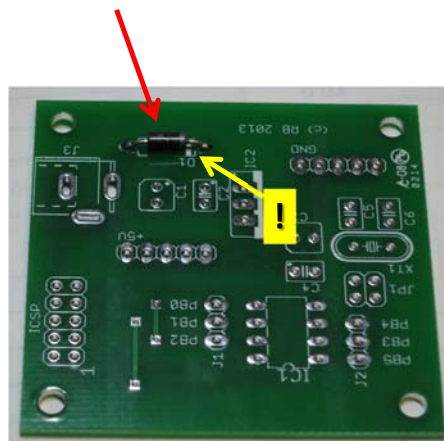
Main Components of the ATtiny45 Board

- D1 ... 1N4004 diode
- IC1 ... ATtiny45-20PU microcontroller
- IC2 ... LM7805 lin. voltage regulator (+5V)
- C1 ... electrolytic capacitor 220 μ F/25V
- C2, C4 ... ceramic capacitor 100 nF/50V
- C3 ... electrolytic capacitor 100 μ F/16V
- C5, C6 ... ceramic 22 pF/200V
- XT1 ... 10 MHz Crystal

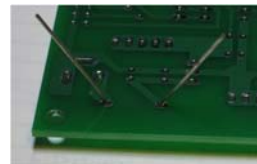
Assembled ATtiny45 Board



1) Install D1

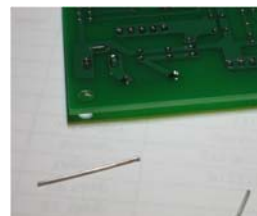


Note: slightly bending the wires of D1 - as shown below - helps do keep D1 in place during soldering.

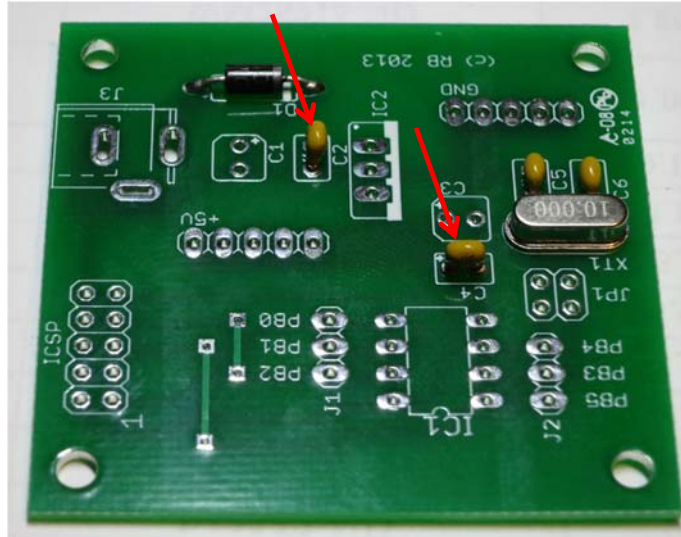


Trim the wires after soldering.

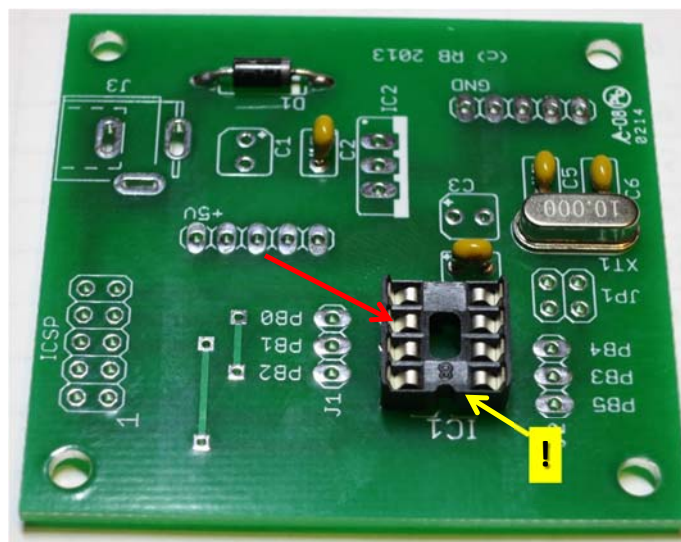
Wear safety glasses!



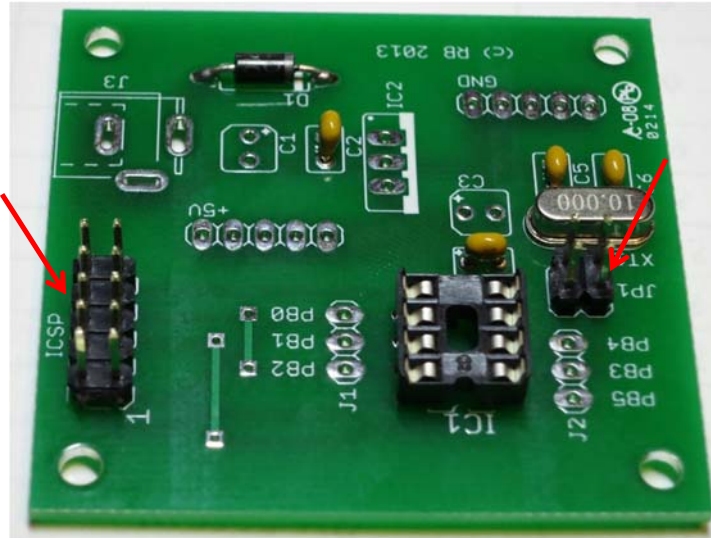
4) Install C2 and C4



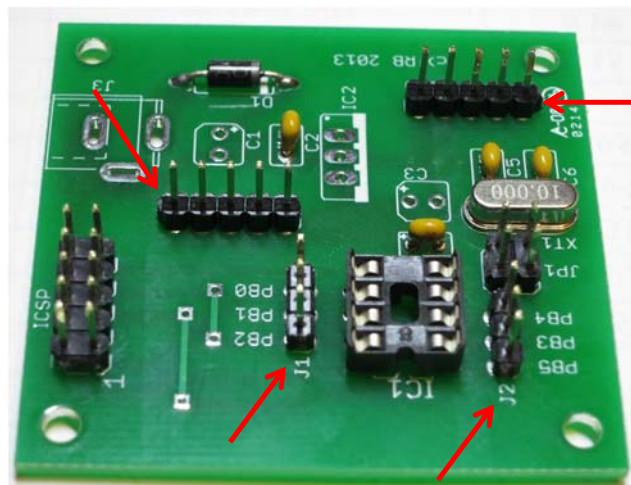
5) Install the DIL8 Socket



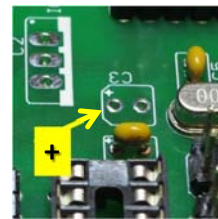
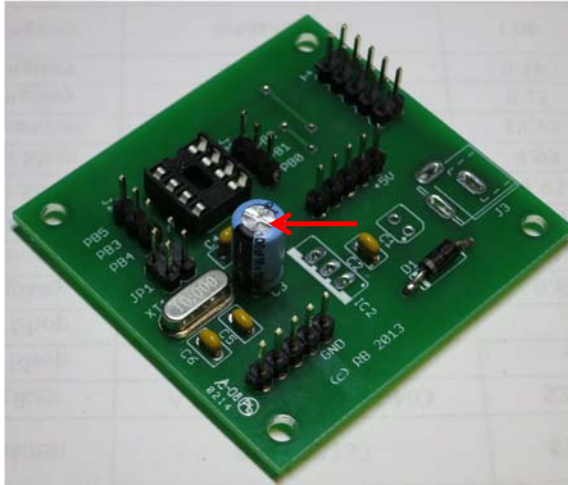
6) Install the Double-Row Headers ICSP & JP1



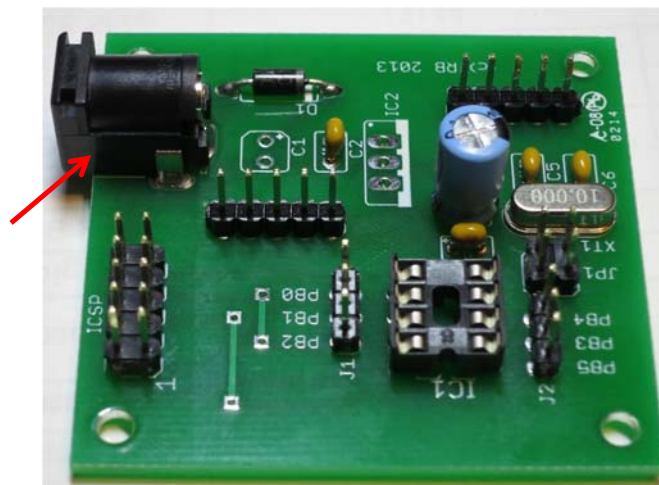
7) Install the Single-Row Headers +5V, GND, J1 & J2



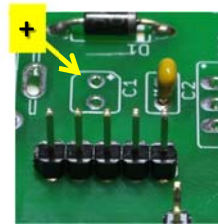
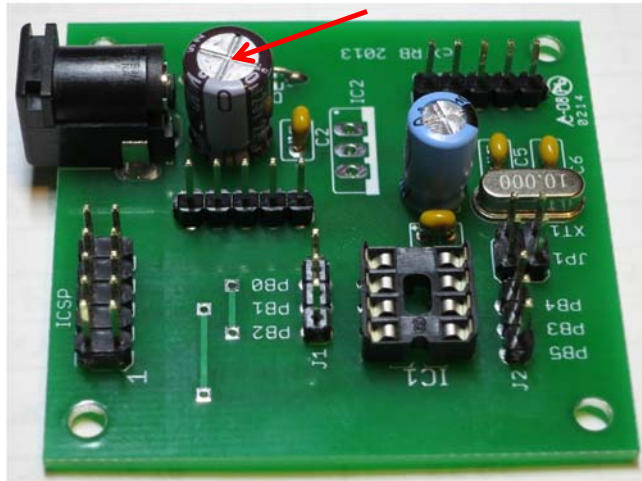
8) Install C3



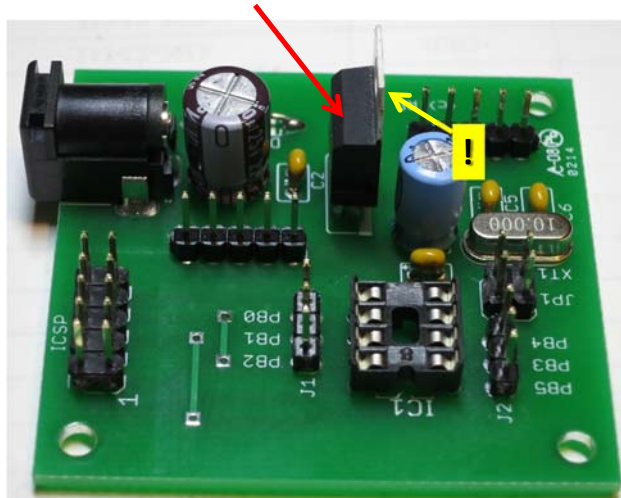
9) Install J3



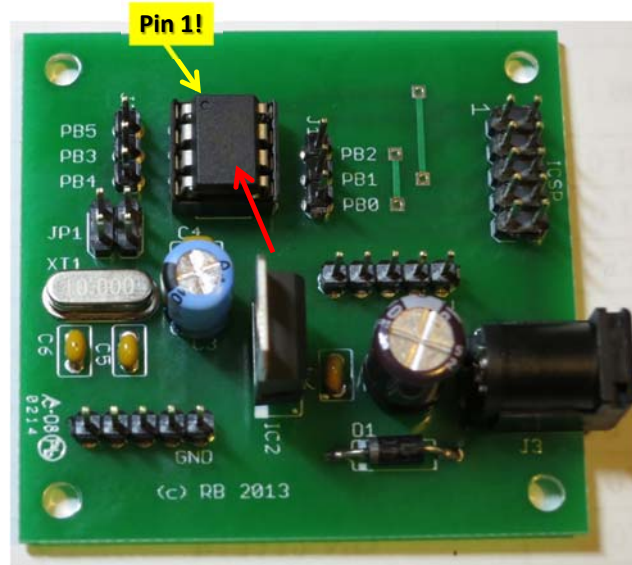
10) Install C1



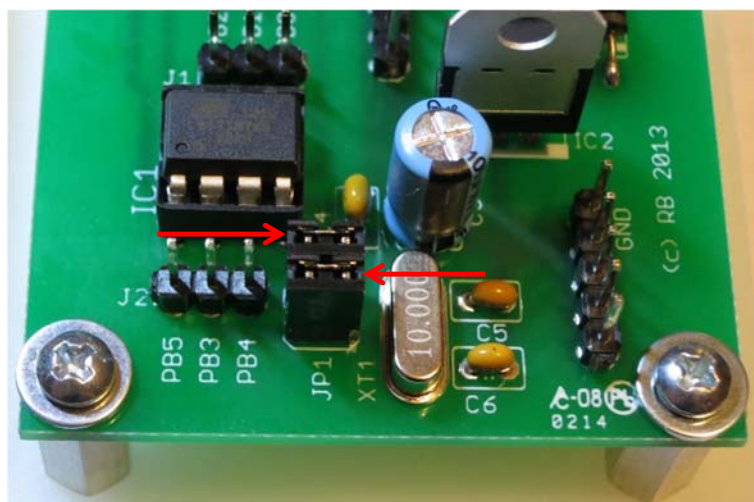
11) Install the LM7805



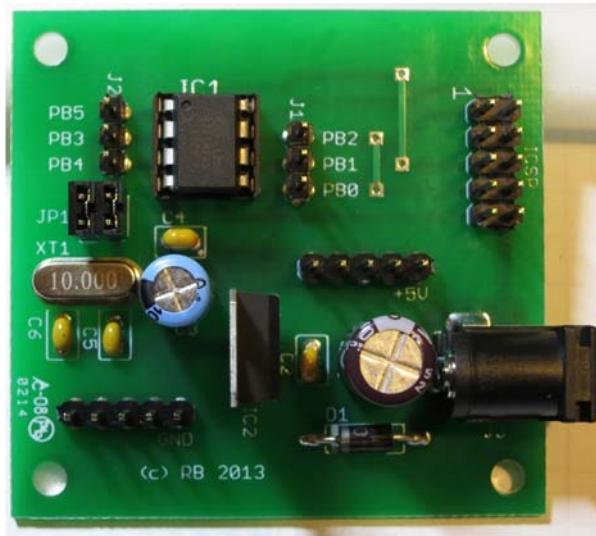
12) Put the ATtiny45 in it's Socket



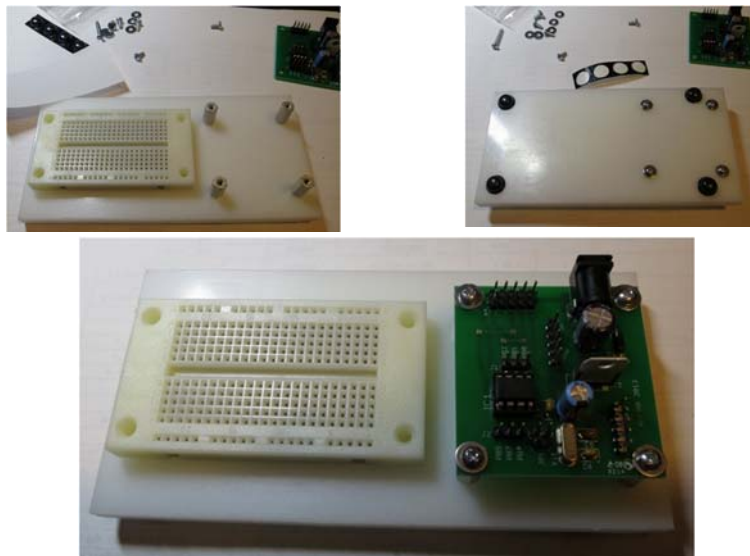
13) Install the Jumpers



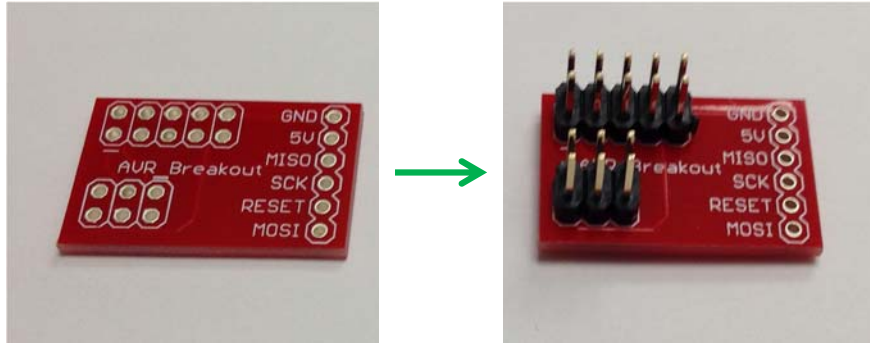
14) Double-Check and Test The Board!



15) Mount the Bread- and ATtiny45-Board to the Baseplate



16) Assemble the Programming Adapter



17) Enjoy 😊