

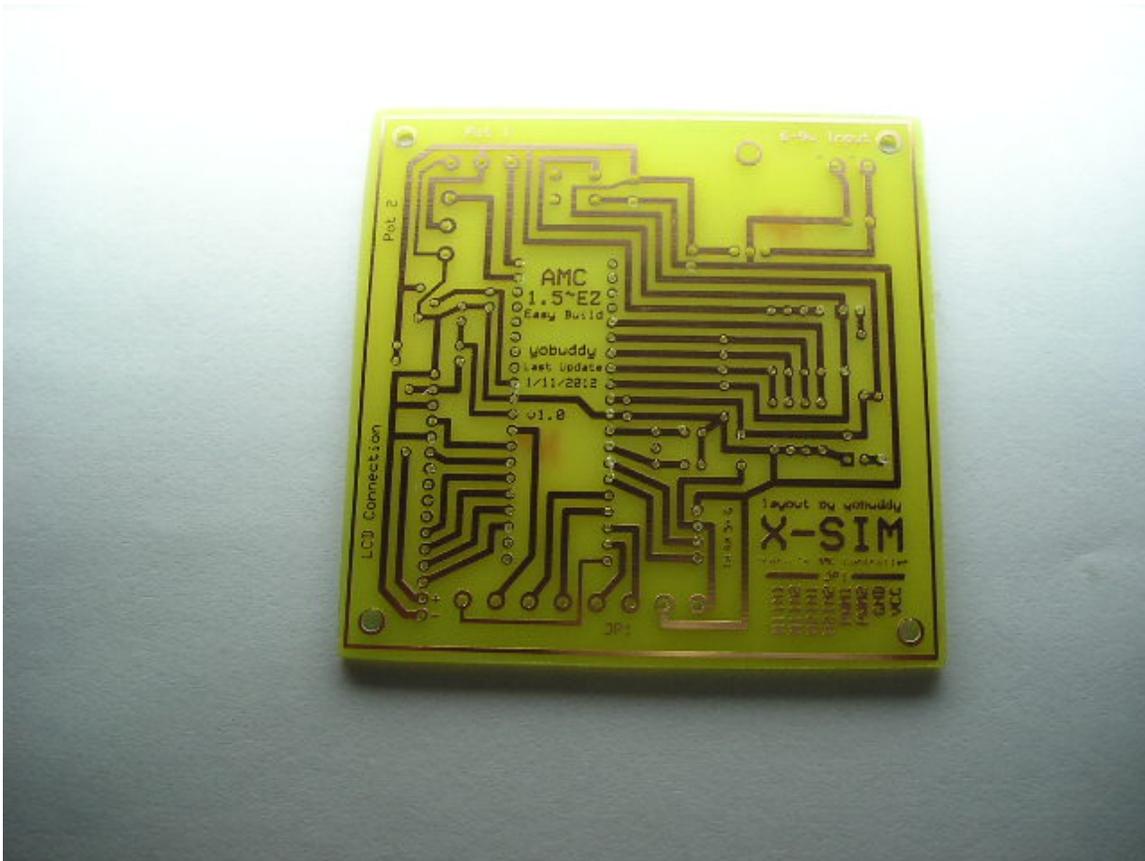
yobuddy
1/17/2012



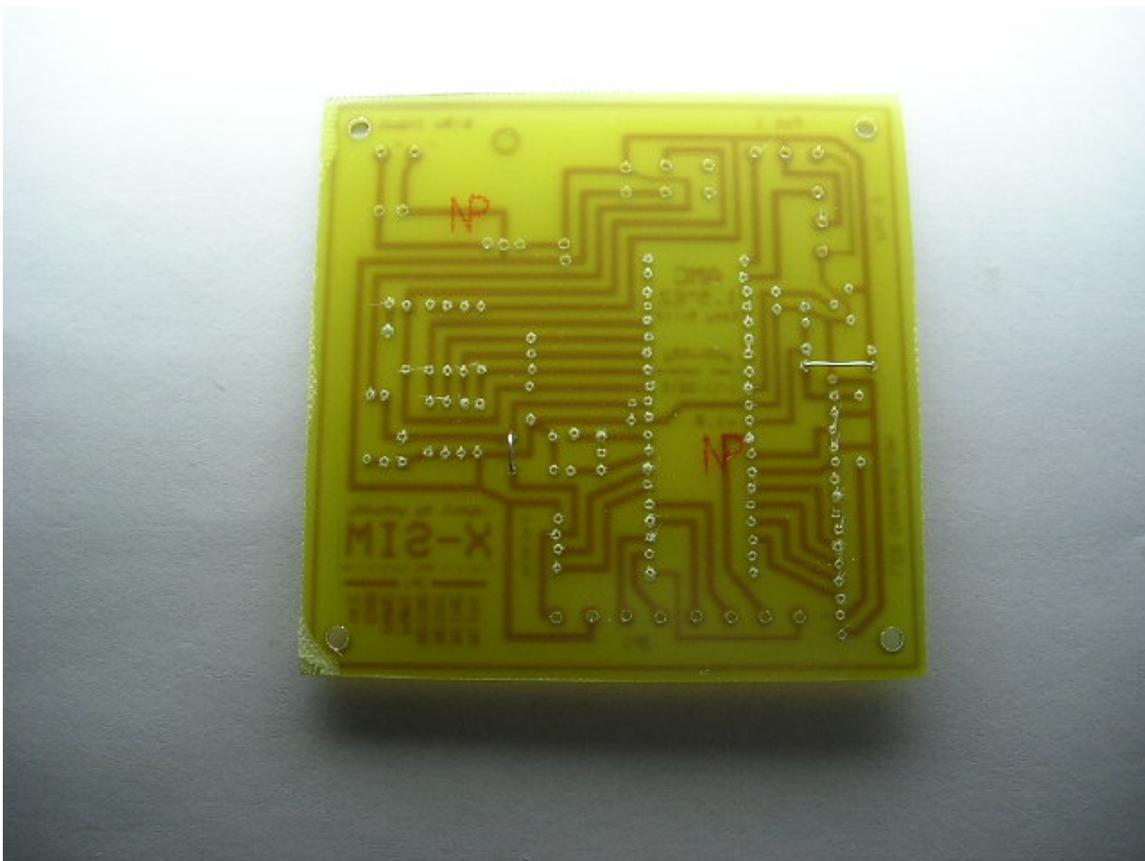
AMC 1.5~EZ Assembly Instructions

AMC 1.5 was originally created by | TronicGR
X-Sim is a Free Motion Simulator Software Written By Martin Wiedenbauer

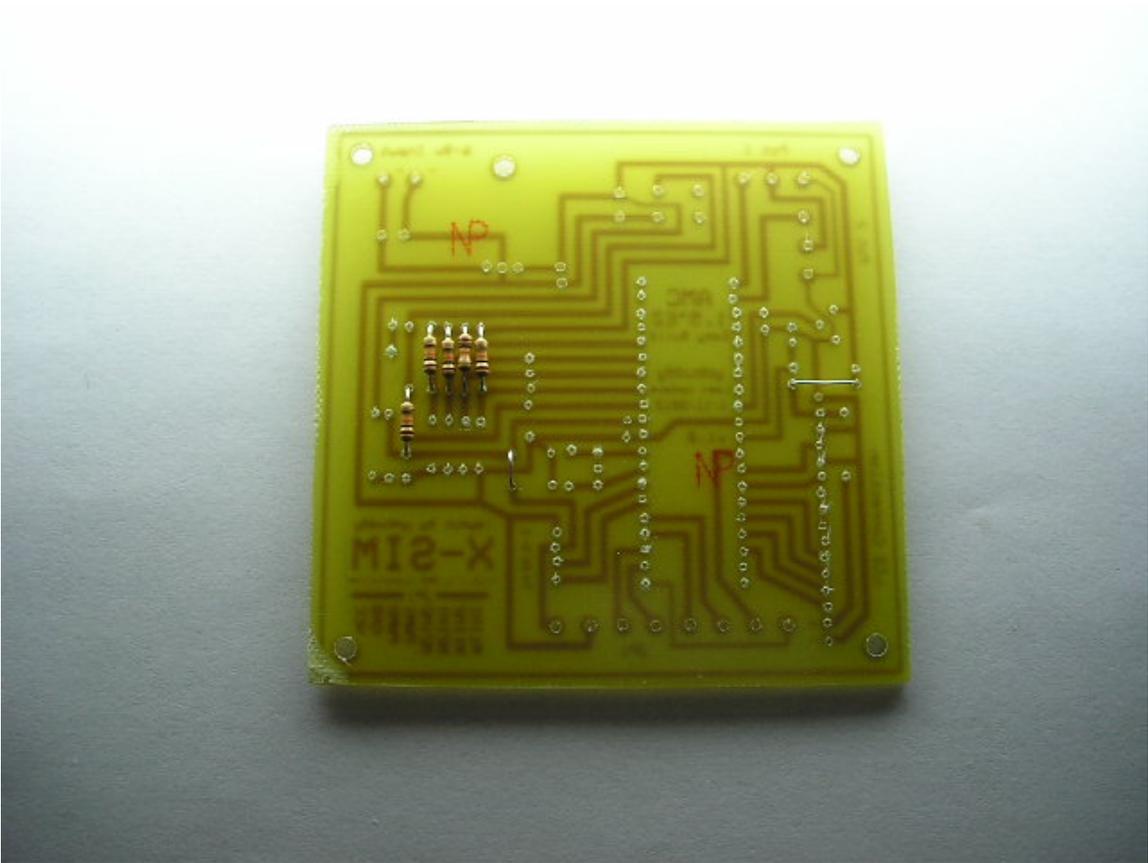
Step 1) Create a Circuit Board with the AMC 1.5~EZ PDF and drill out the holes.



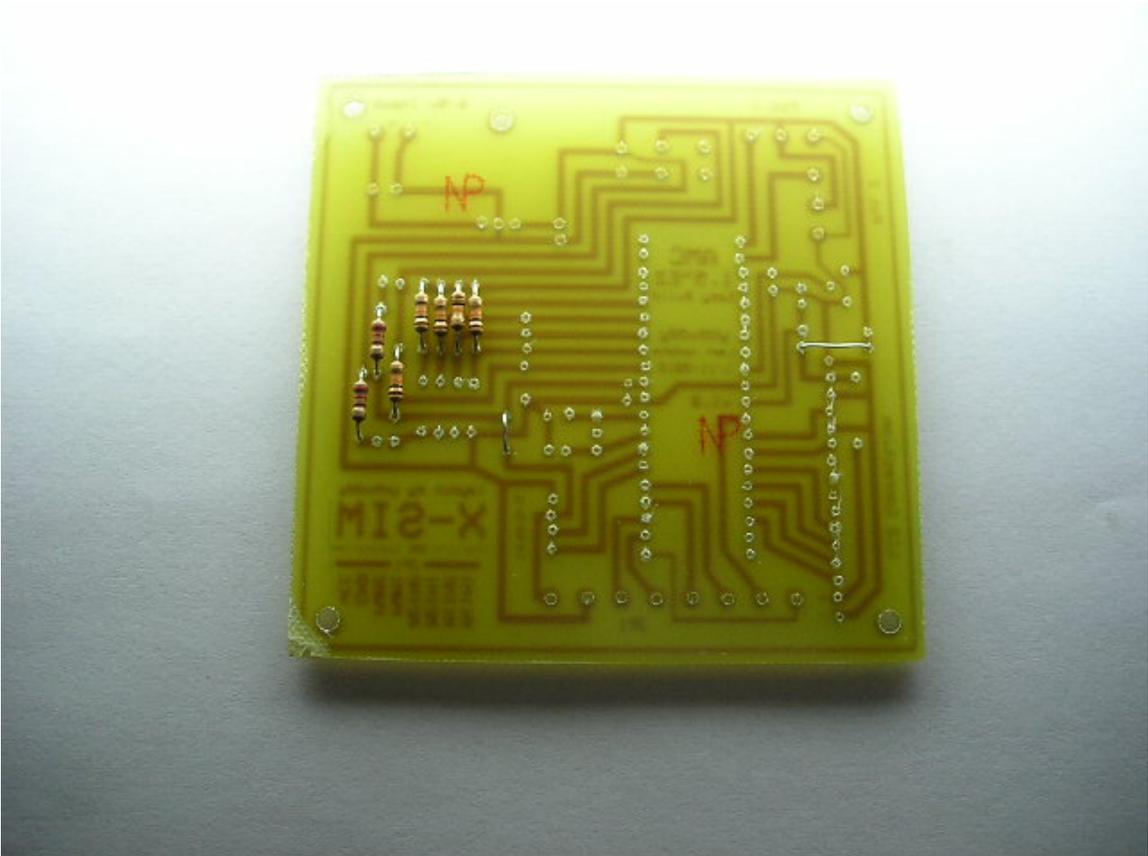
Step 2) Insert two jumpers (I used the old legs of a resistor).



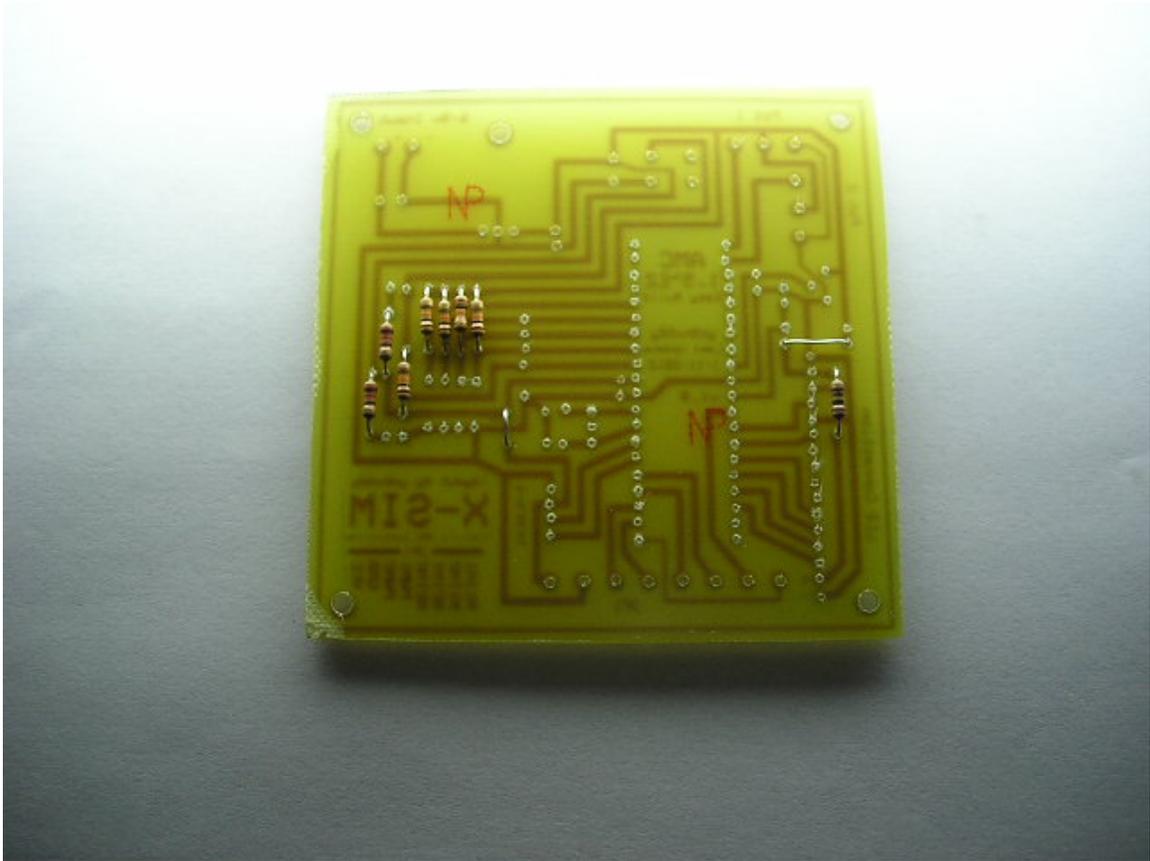
Step 3) Insert (5) 10k ohm resistors.



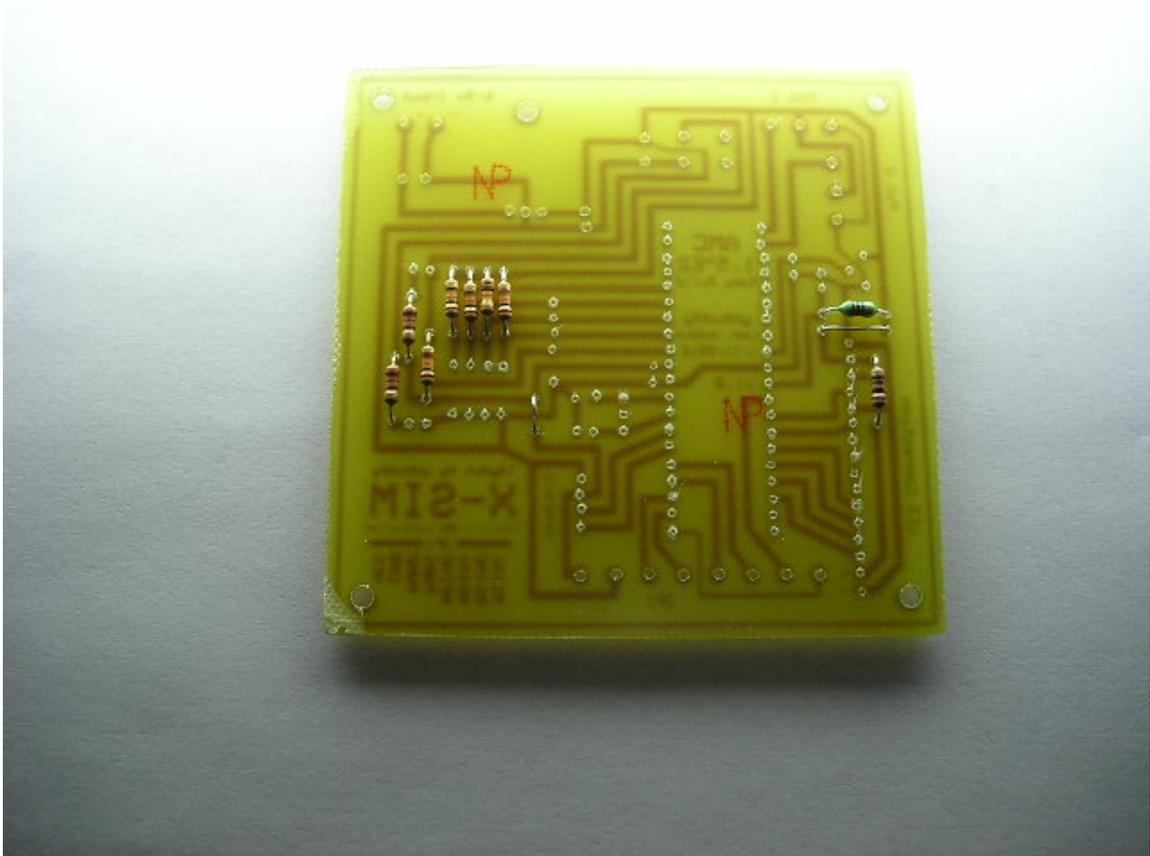
Step 4) Insert (2) 220 ohm resistors as shown.



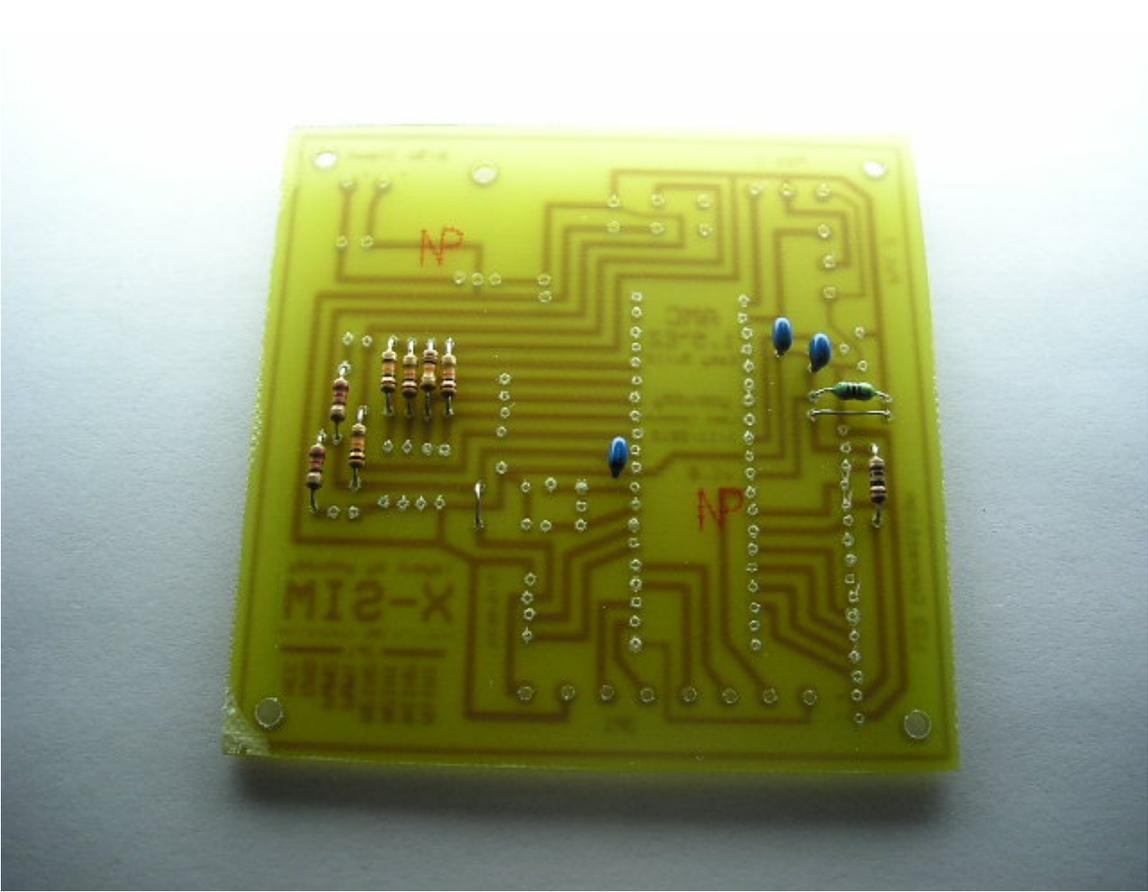
Step 5) Insert the single 10 ohm resistor as shown.



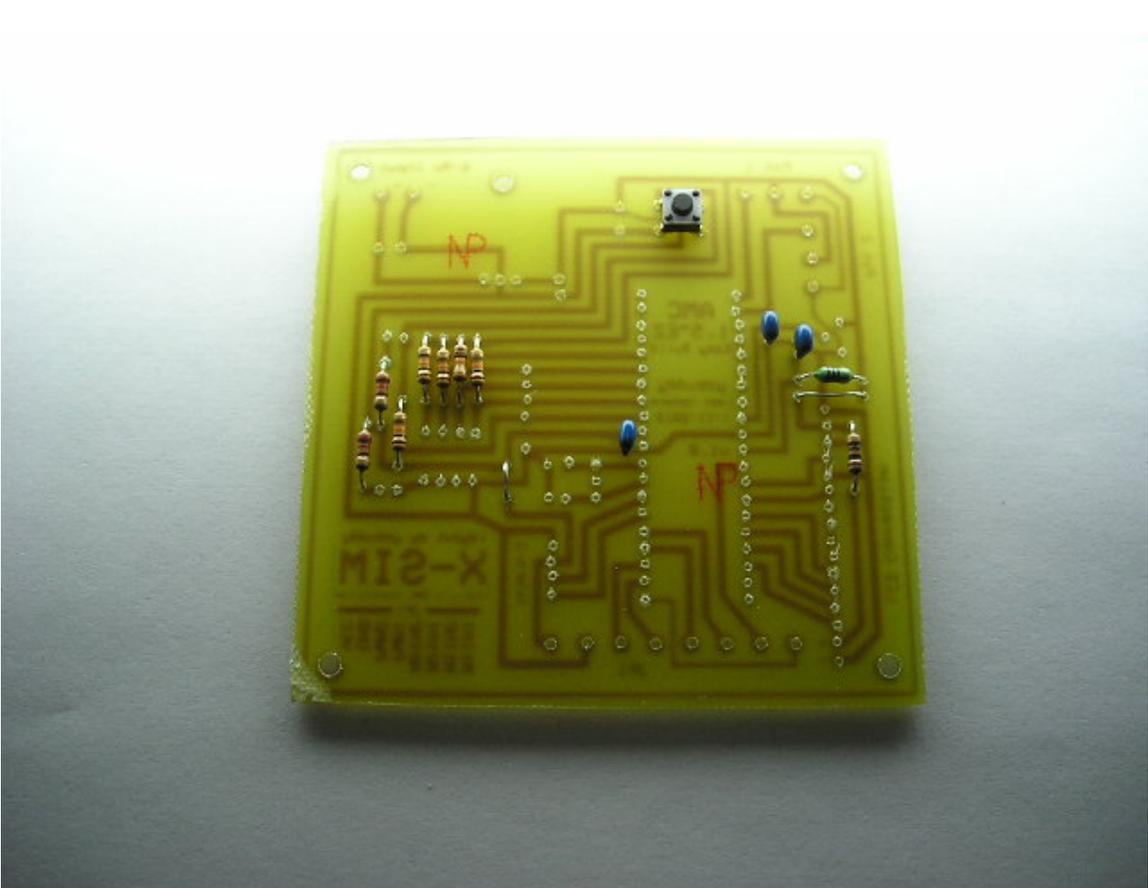
Step 6) Next we insert the 10uH choke.



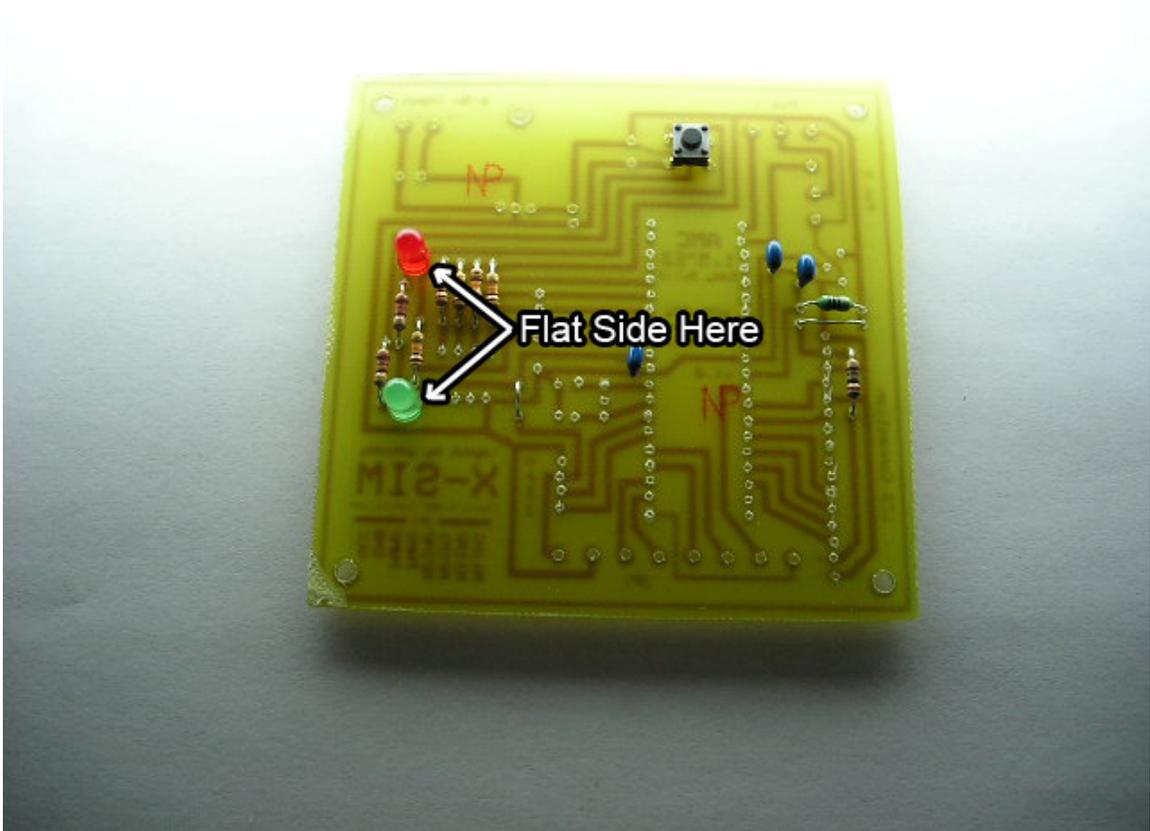
Step 7) Onto the (3) .1uF ceramic capacitors.



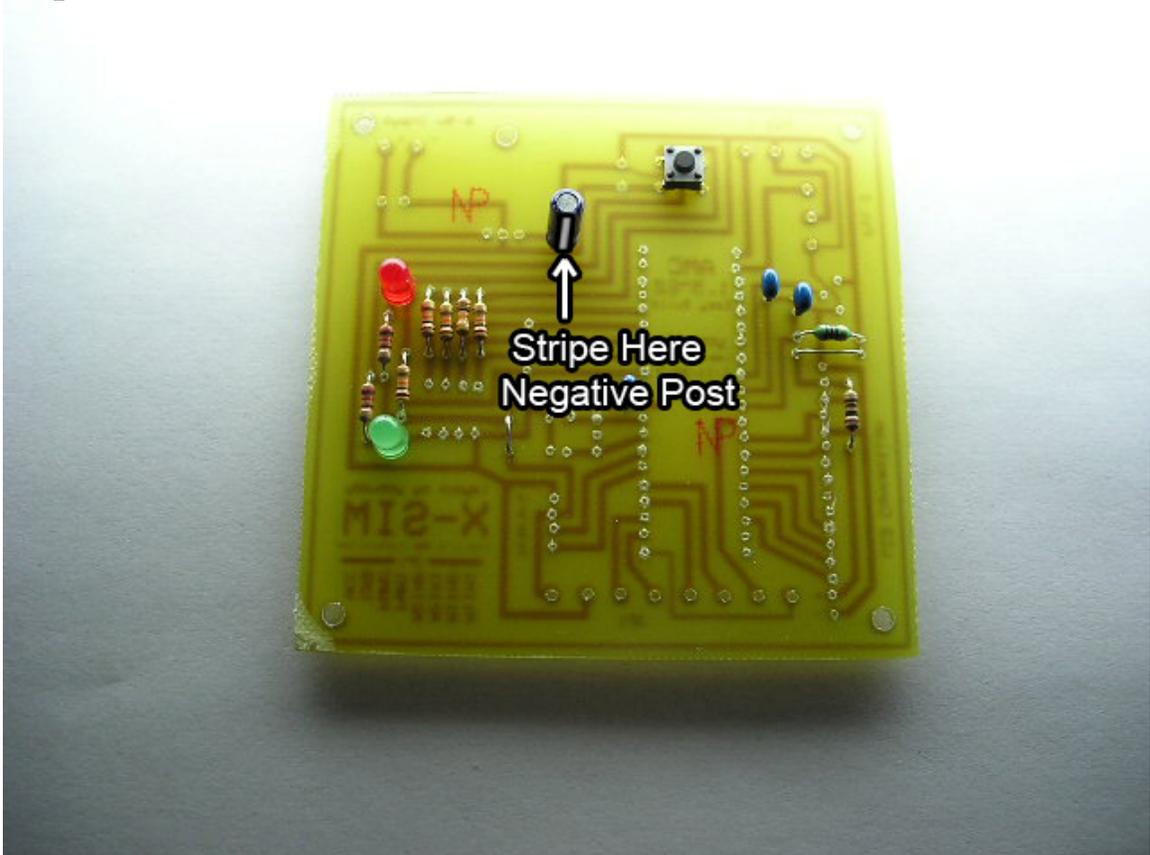
Step 8) Now we come to the tactile switch.



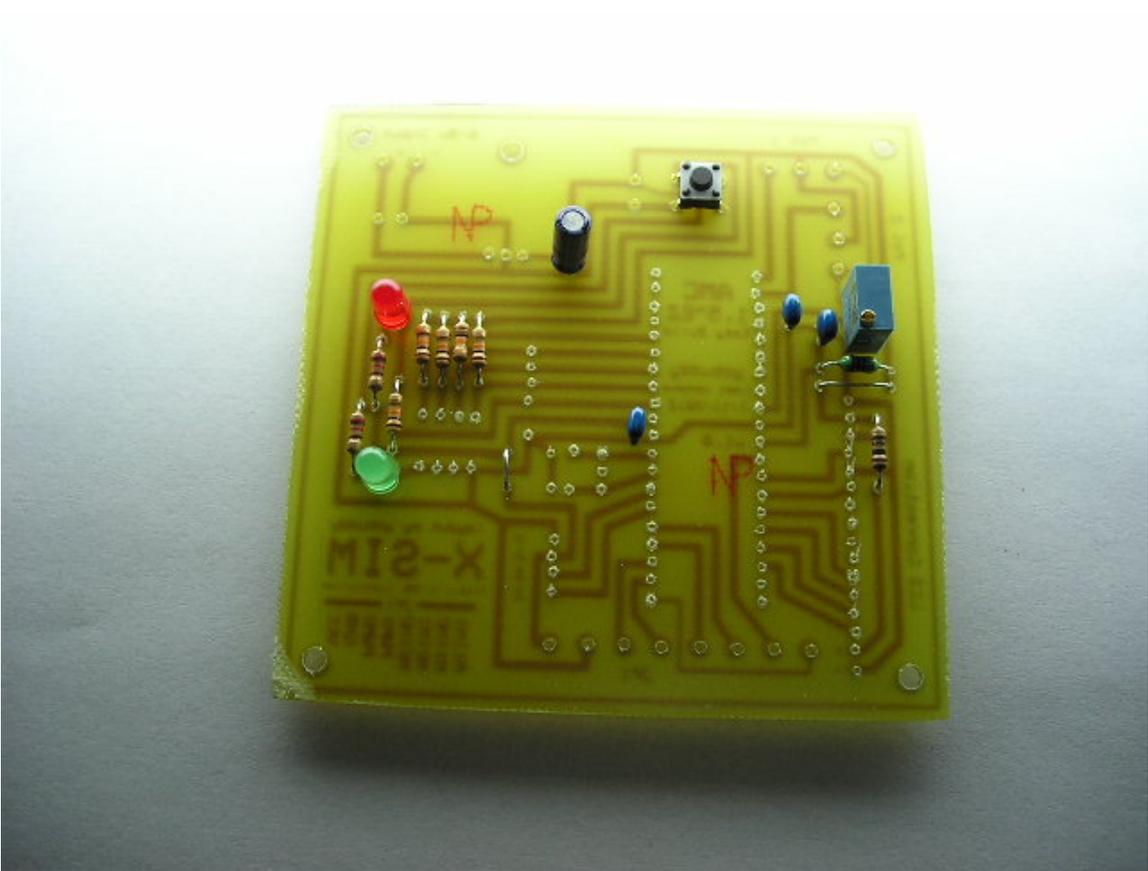
Step 9) Time for some LED's.



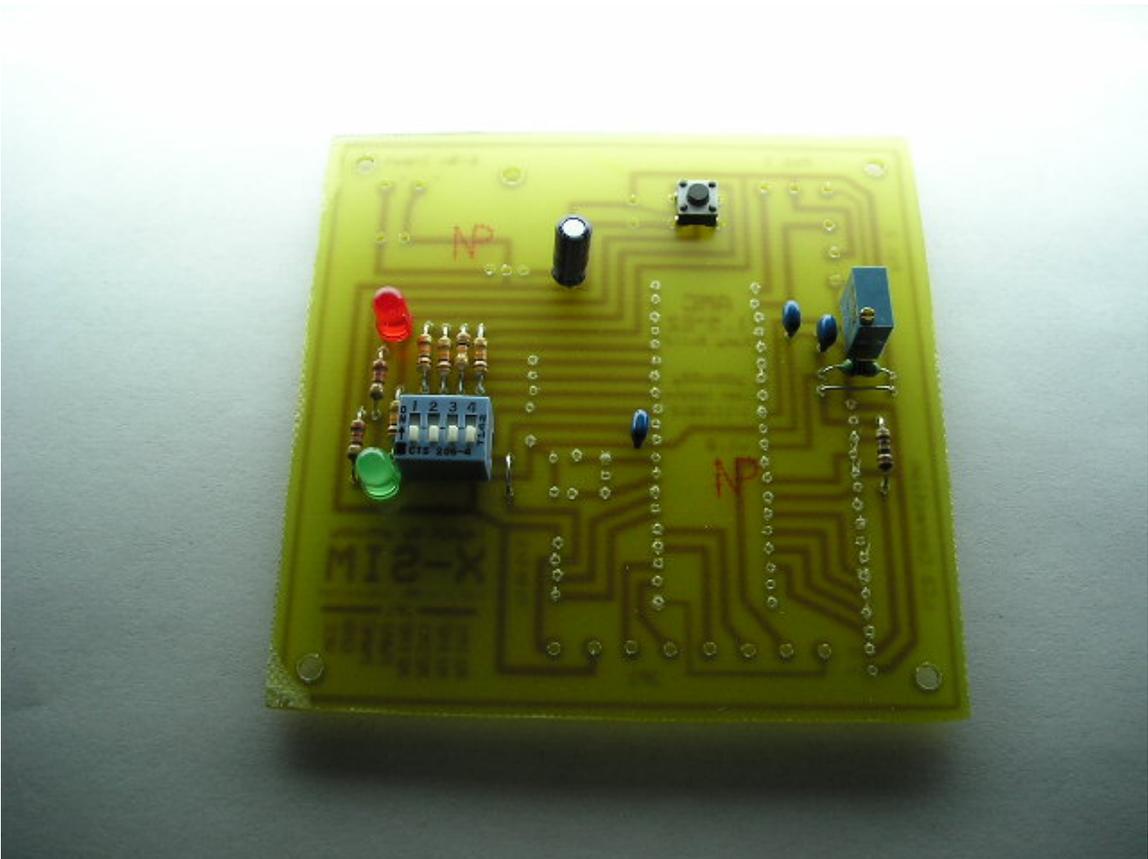
Step 10) Insert the single 10uF / 16V Capacitor



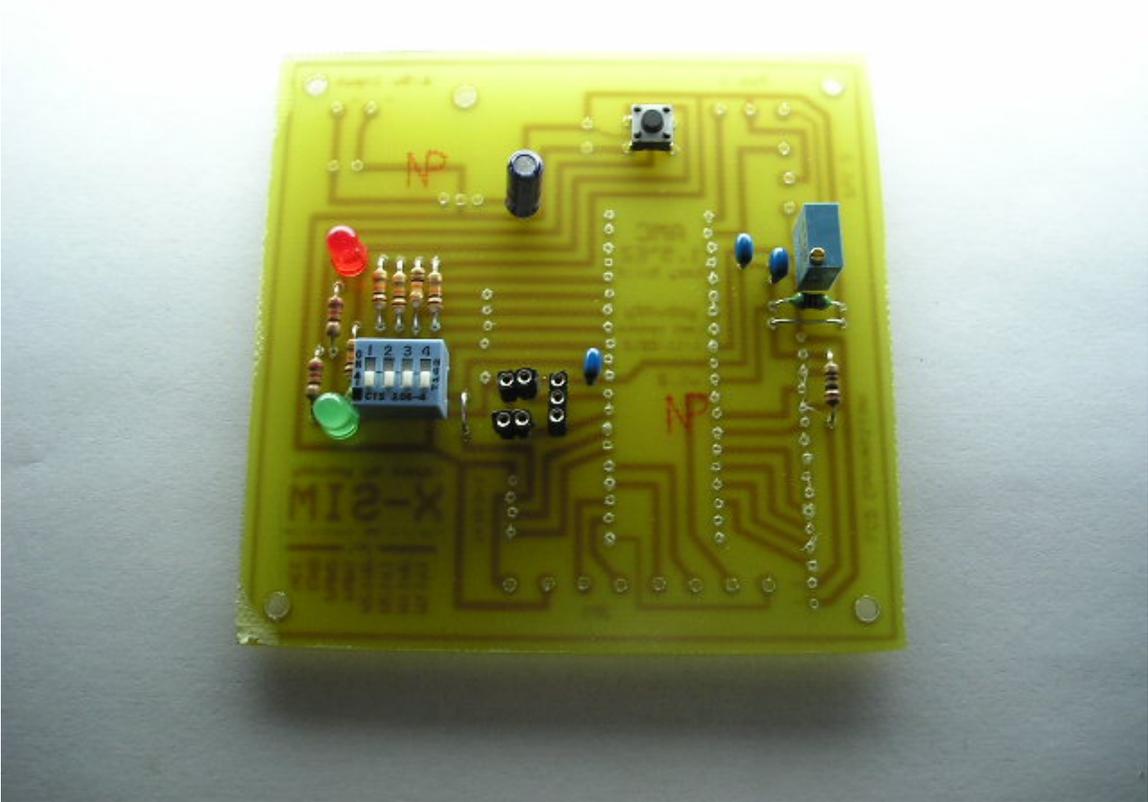
Step 11) Next we come to the 10 K ohm multi turn trimmer.



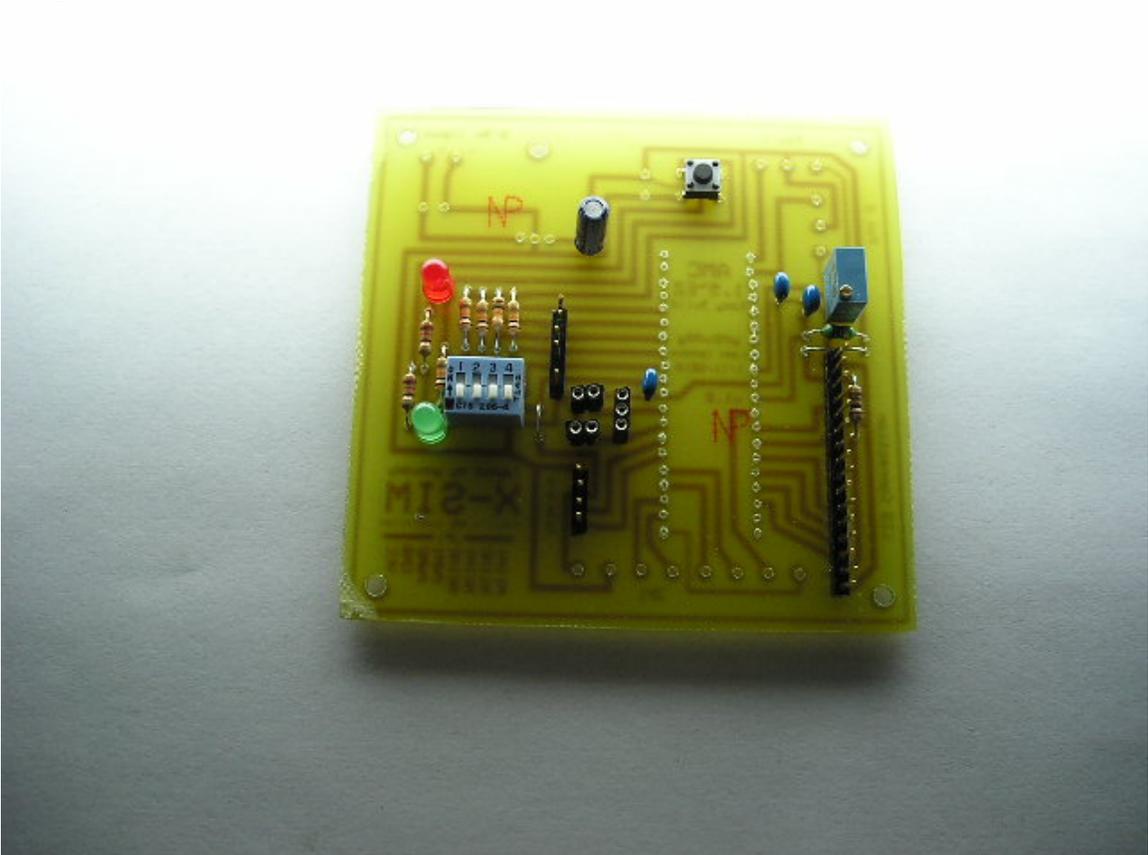
Step 12) Now the 4 way DIP Switch.



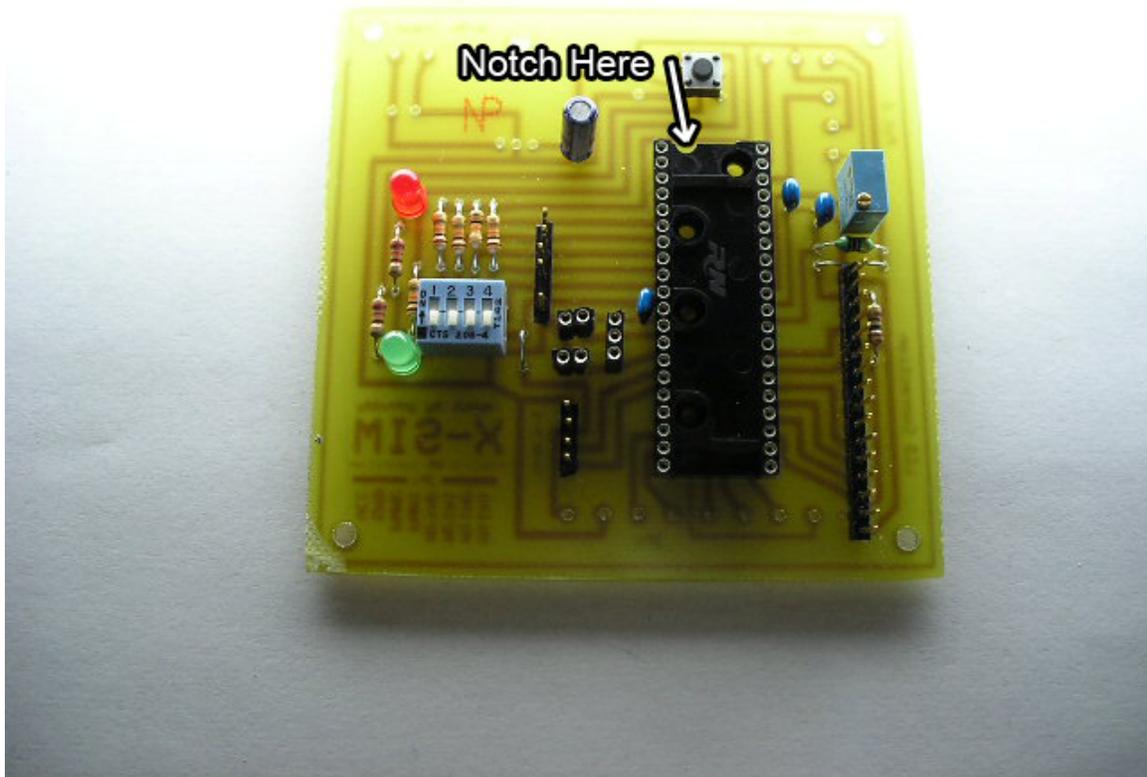
Step 13) Insert the female SIP headers as shown.



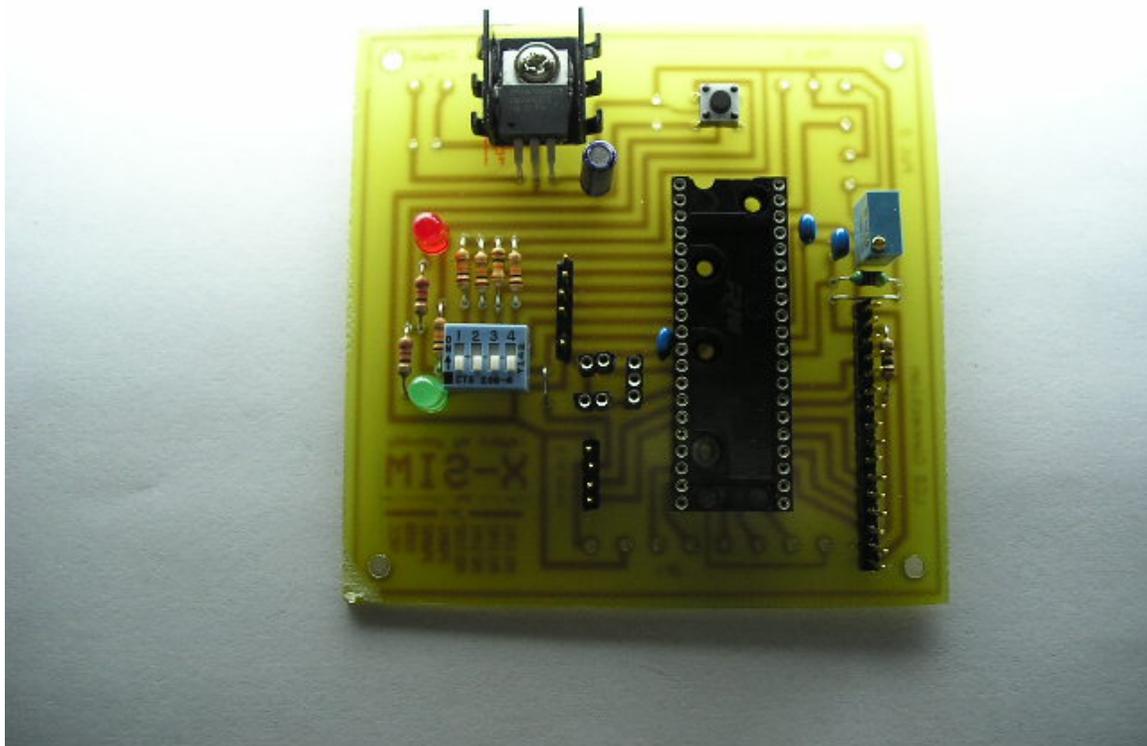
Step 14) Now install the male headers to the board.



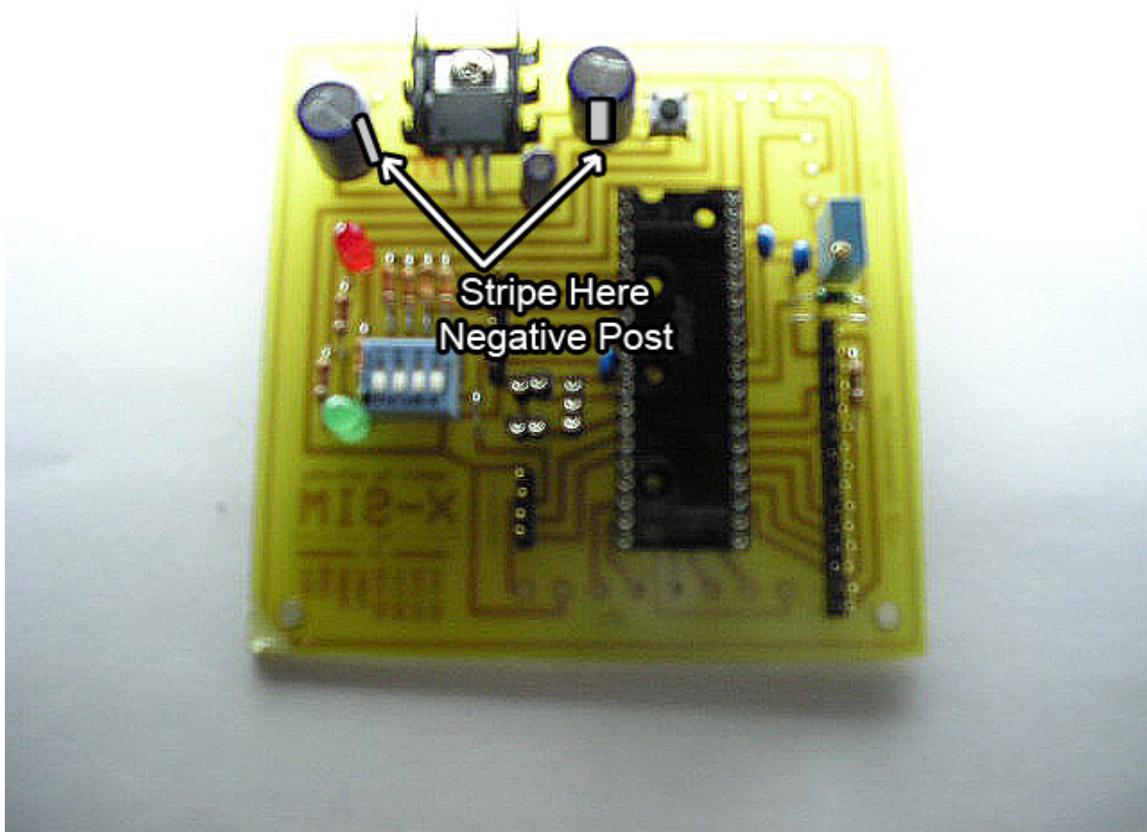
Step 15) Now solder up the IC socket.



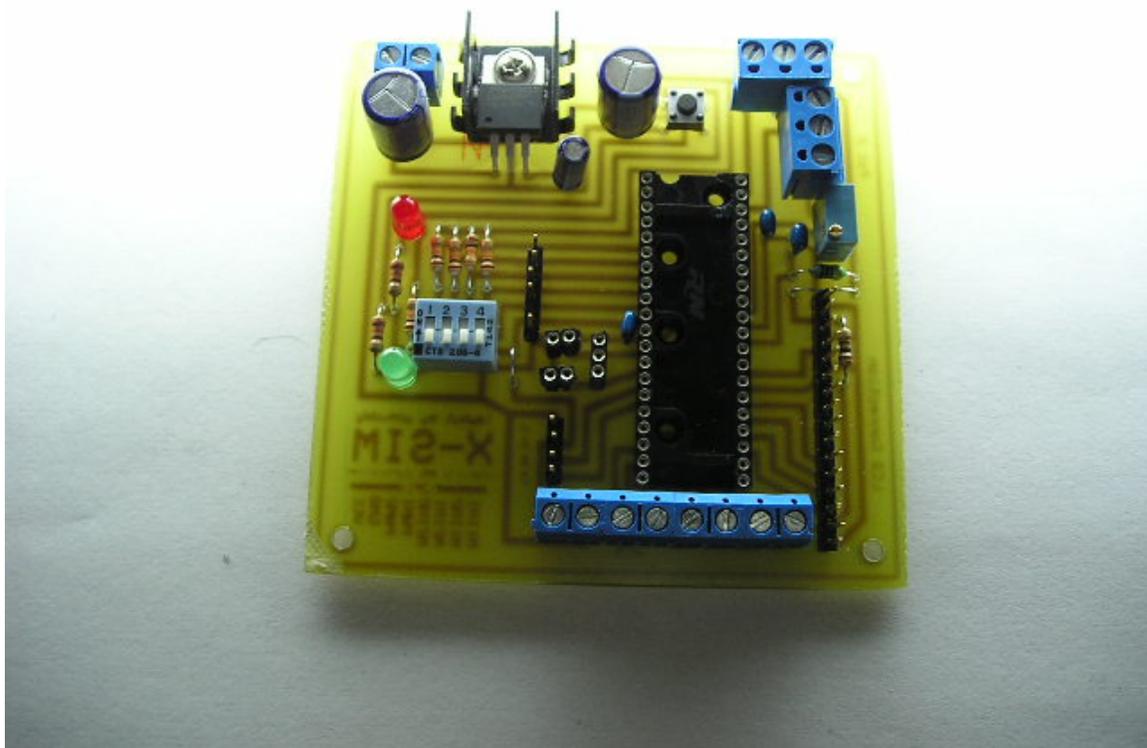
Step 16) Install the Voltage regulator with the cooler.
(Use some heat sync if possible).



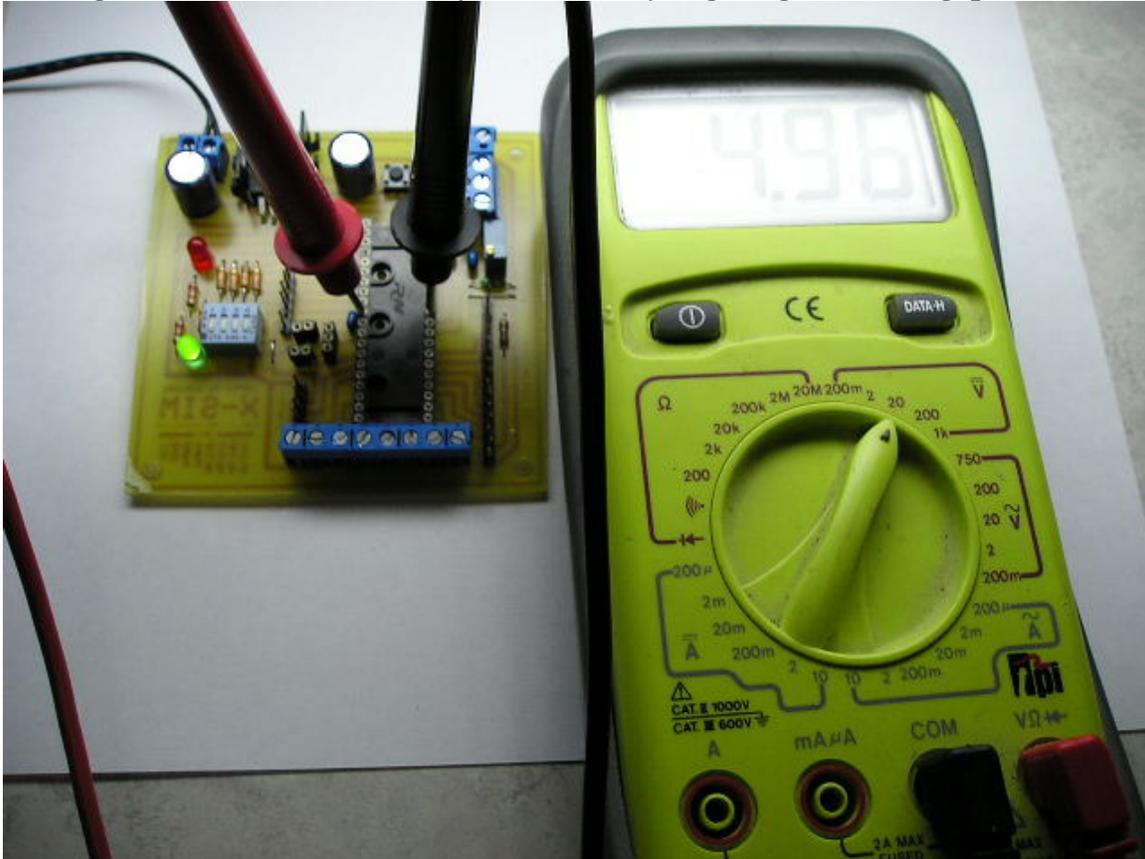
Step 17) Next Install the two 1000uF/16volts Capacitors.



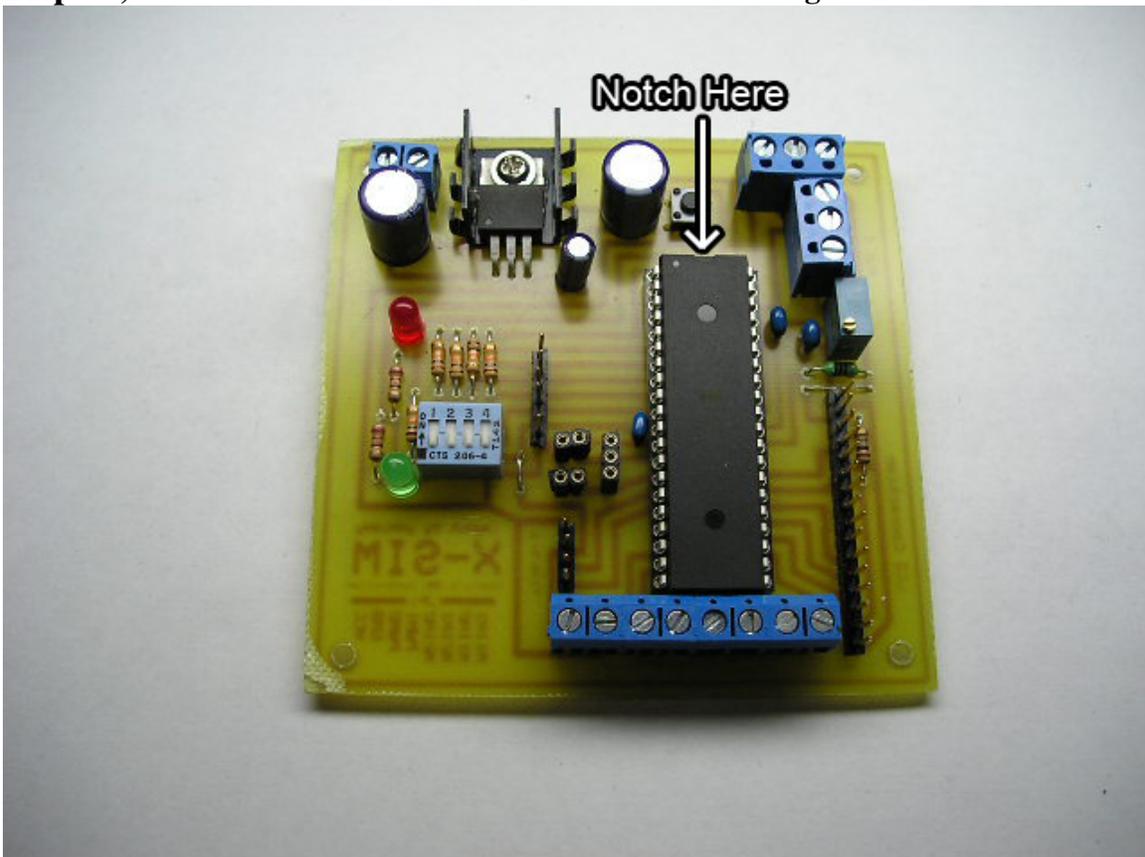
Step 18) It's time to install the Screw Terminal blocks.



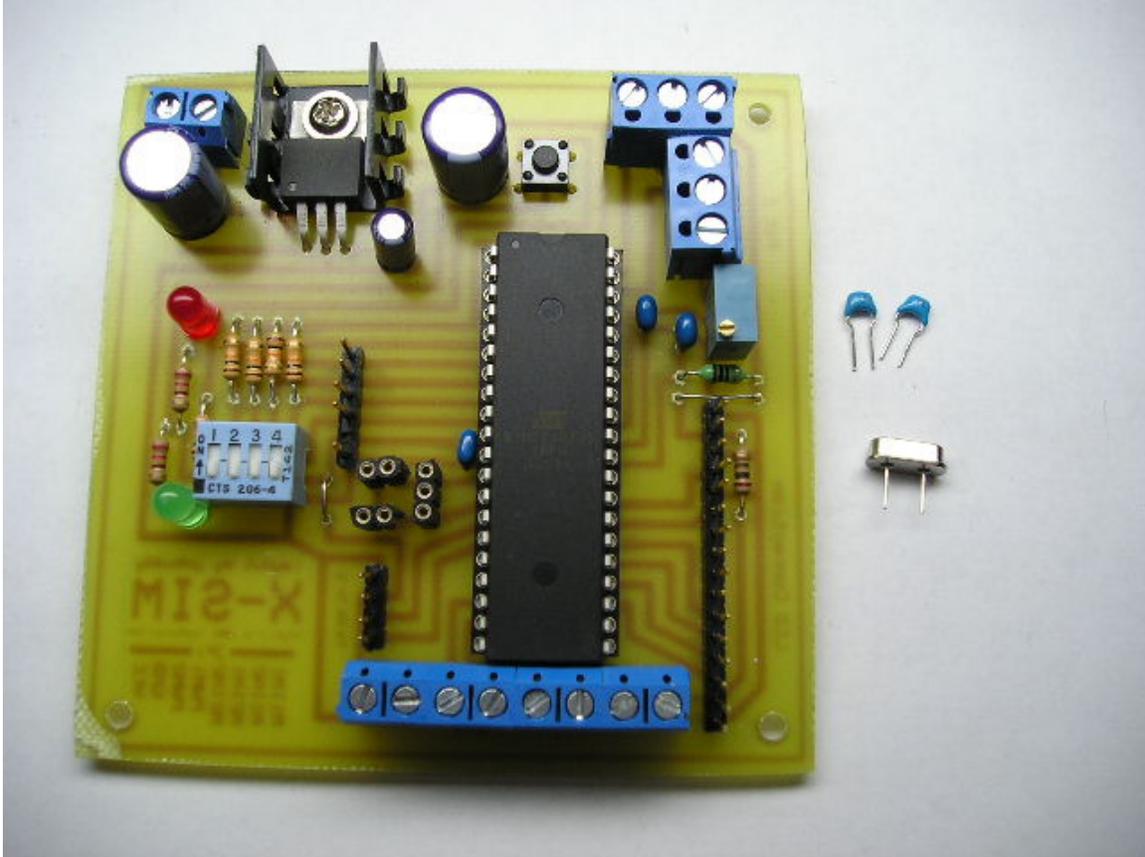
Step 19) VERY IMPORTANT – Don't Skip! – Power up your board and use a multimeter as shown, 10 pins down from the top of the IC socket. If you don't get a reading close to 5 volts – recheck your work. If you get a good reading, proceed.



Step 20) Insert the ATMEGA8535 IC. Make sure it's in tight!



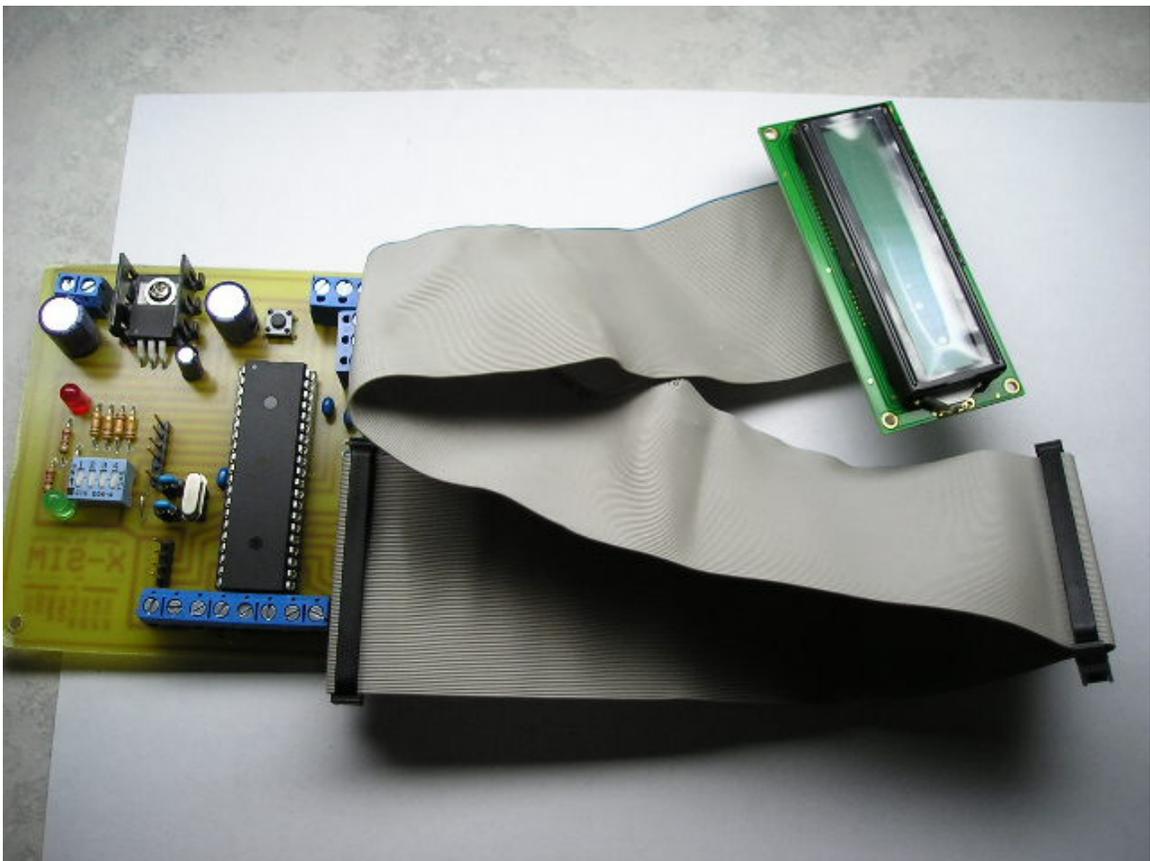
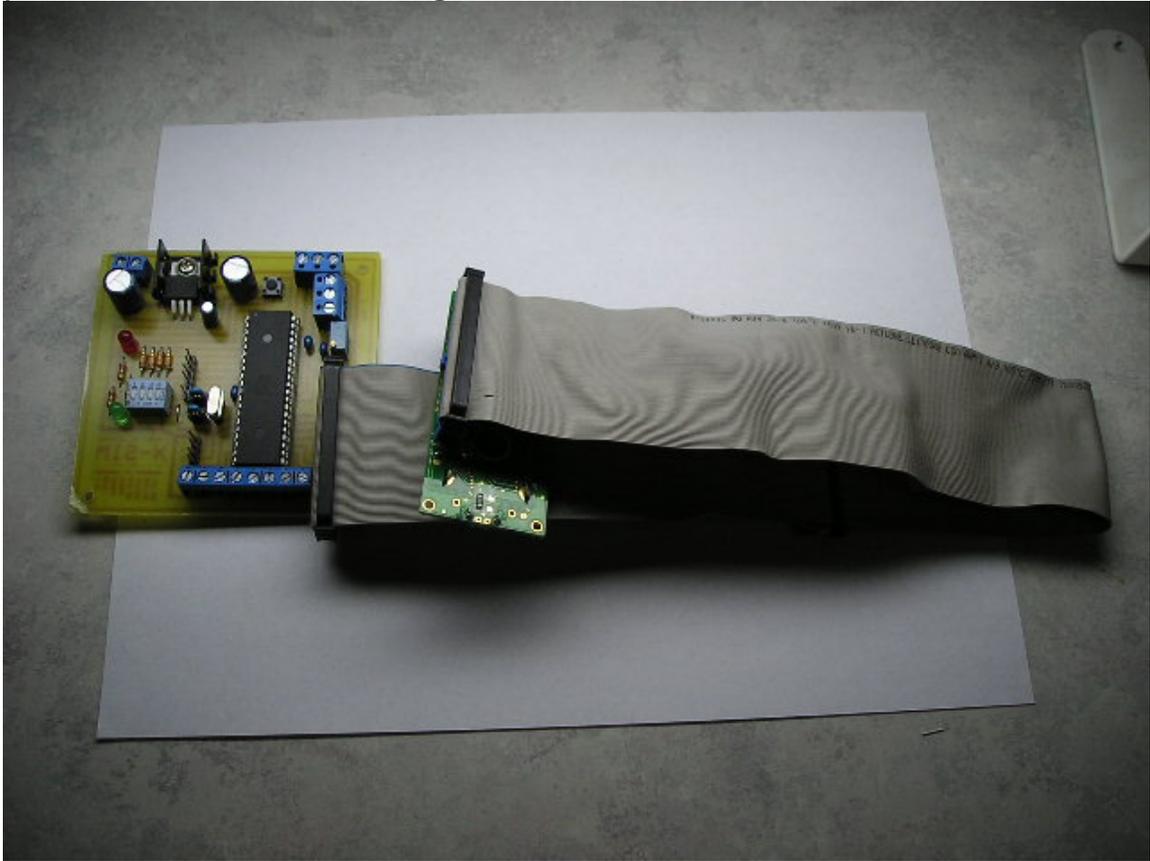
Step 21) Select either the 22,1184 Mhz Crystal OR the 18,4320 Mhz Crystal. Use (2) 18pF ceramic capacitors with the 22,1184 Mhz Crystal. And use (2) 22pF ceramic capacitors with the 18,4320 Mhz Crystal.



Step 22) Solder a 16 pin male header to the back the LCD.



Step 23) You're Done Soldering! Grab any old IDE cable and attach the LCD to the board as shown. Use a continuity test on the multimeter if you not sure how it should go.



Step 24) Install some screws in the 4 corners to use as feet until the PCB gets mounted.



Step 25) Go Program your new AMC 1.5~EZ!!! – All Done!!!

