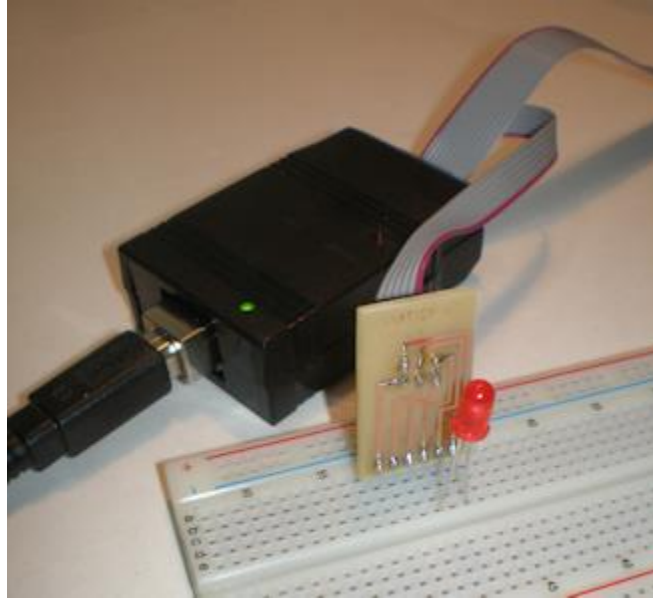


SMTISP



Step

Picture


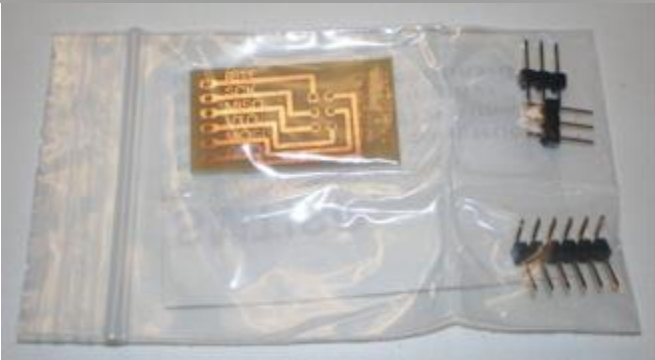
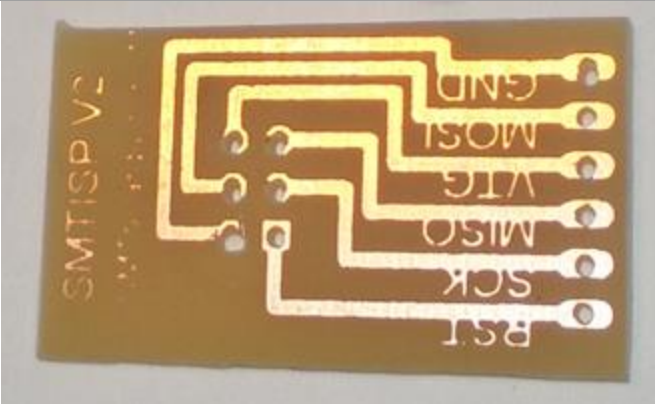
Detail


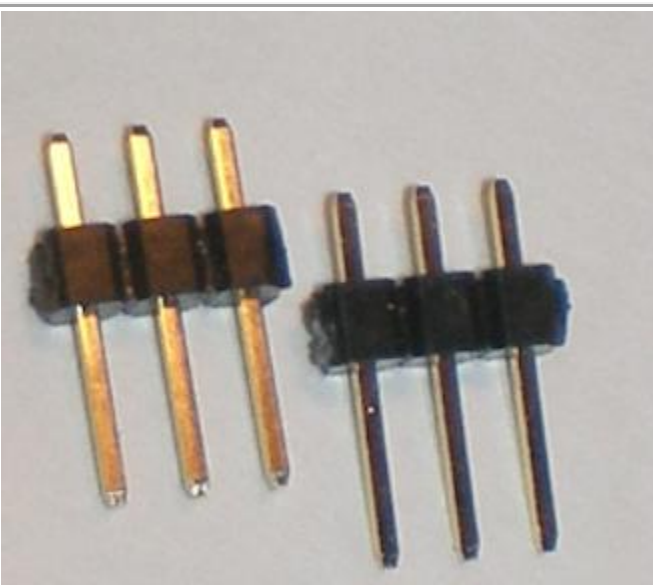

ABOUT

While working on SMTSimon,
I did a lot of testing with my breakboard.
What I needed was an easy way to connect my programmer,
Directly to the breadboard.
That's where SMTISP, as simple ISP breakout board came from.

SMTISP designed by Charley Jones, PMP
aka Dataman
For SMTBoards.Com
4/2011

PARTS LIST

1	 <p>The image shows a clear plastic bag containing the SMTISP kit. A white card is placed inside the bag with the following text: SMTISP By SMTBoards.Com Fun and easy to construct breakout board that simplifies programming avr chips using a breadboard. Instructions at:</p>	Kit as distributed
1a	 <p>The image shows the contents of the kit laid out on a white surface. On the left is a clear plastic bag containing a small PCB. To the right of the bag are a black 5-pin header and a black 5-pin cable with a USB-A connector.</p>	Kit Contents, Details follow.
1b	 <p>The image is a close-up of the SMTISP board, which is a small PCB with a gold-colored surface. It features several pins on the right side, each labeled with its function: RST, SCK, MISO, MISO, VTC, MOST, and GND. The board is labeled 'SMTISP V2' on the left side.</p>	SMTISP Board

1c		6 pin right angle .1" header
1d		2x 3 pin straight .1" header
REQUIRED / NOT PROVIDED		
2		USBTiny or compatible programmer. See Adafruit.Com

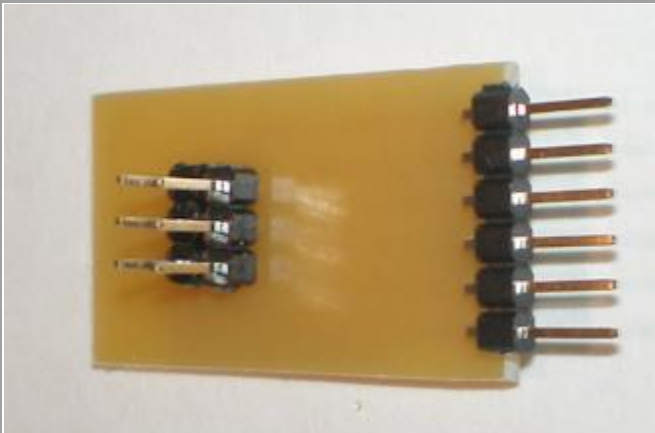
ASSEMBLY INSTRUCTIONS

3



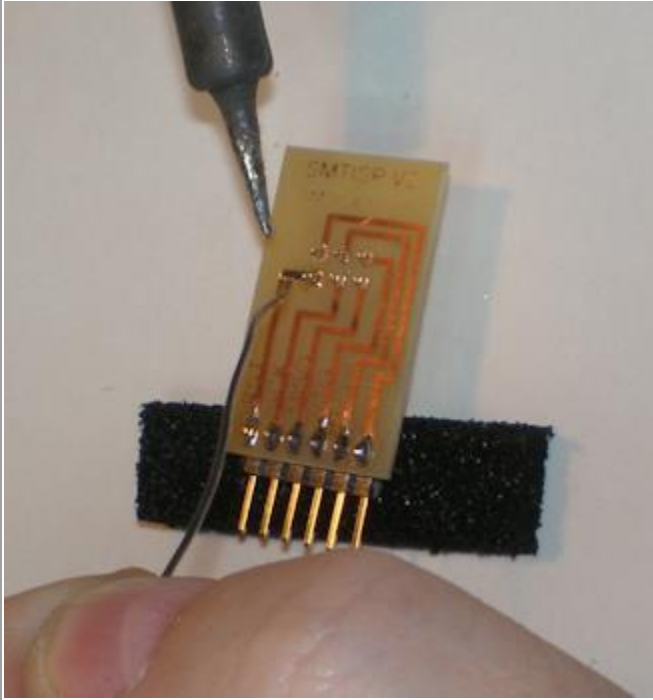
Begin by soldering the right angle connector from the back of the board.

4



Next, if not already done, cut the single row straight header into 2 3-pin pieces. Place these from behind as well.

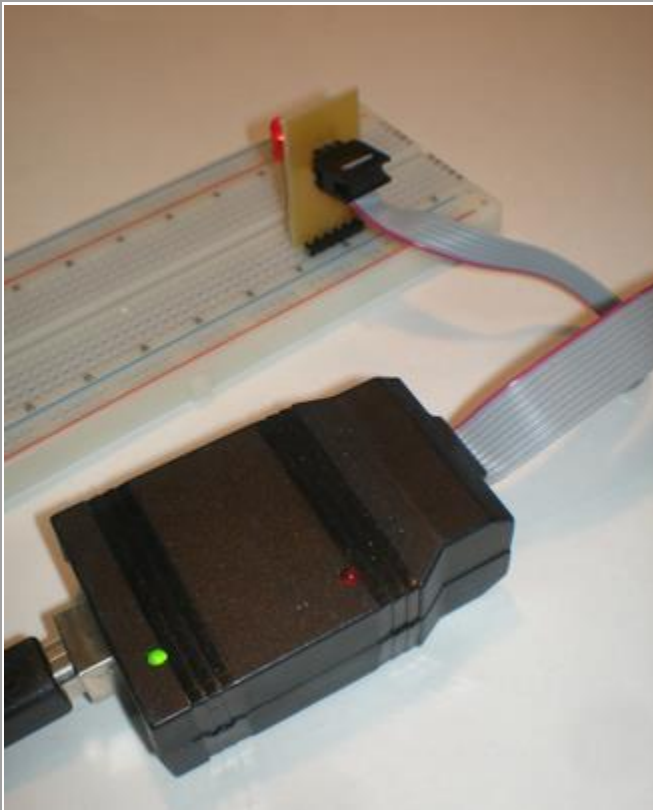
5



Solder in place.
It helps if you can prop up the right angle header so that the straight header are flat against the surface.

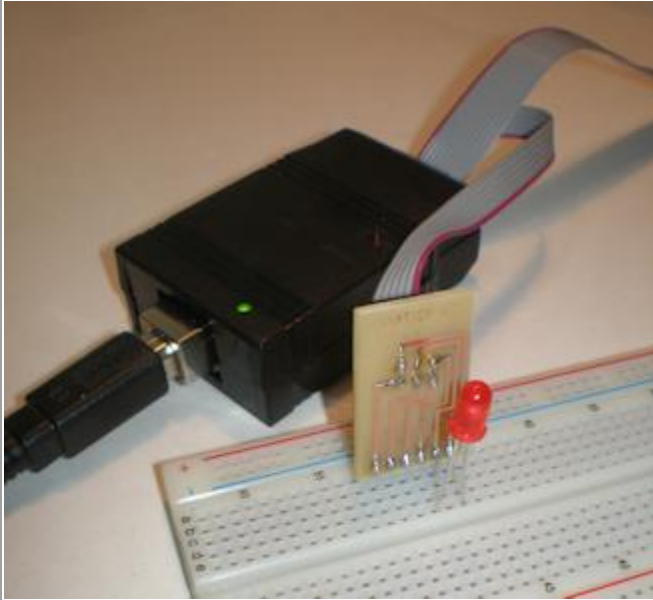
USAGE INSTRUCTIONS

6



Insert the SMTISP into a breadboard and connect the USBTiny as shown.

7



It helps to place an LED across VTG (5V+) and GND (-). Please note that this LED should not be left long, as there is no current limiting resistor in place. Probably better would be to use a 100ohm 1/4W resistor and LED combination.

8



All standard ISP signals are labeled on the SMTISP.
RST - Reset
SCK - Clock
MISO - Output
VTG - 5V+
MOSI = Input
GND - Ground