



8-Pin PIC Prototyping PC Board

User's Guide

Overview

The Pololu 8-pin PIC prototyping PCB is designed for implementing custom designs based on Microchip's line of 8-pin microcontrollers. The PCB has the footprints and traces necessary for establishing basic support circuitry for running a PIC. A prototyping grid is available for adding your own electronics.

Contacting Pololu

You can check the Pololu web site at <http://www.pololu.com/> for the latest information about the 8-pin PIC prototyping PC board, including color pictures, application examples, and troubleshooting tips.

We would be delighted to hear from you about your project and about your experience with our product. You can contact us through our online feedback form or by email at support@pololu.com. Tell us what we did well, what we could improve, what you would like to see in the future, or anything else you would like to say!

Populating the PCB

Make sure the notch indicating pin 1 of the PIC is on the top side of the board. Use a socket so that you can remove the PIC to reprogram it.

The PCB is designed for an LM2931Z or compatible voltage regulator. Make sure the flat side of the package matches the PCB drawing.

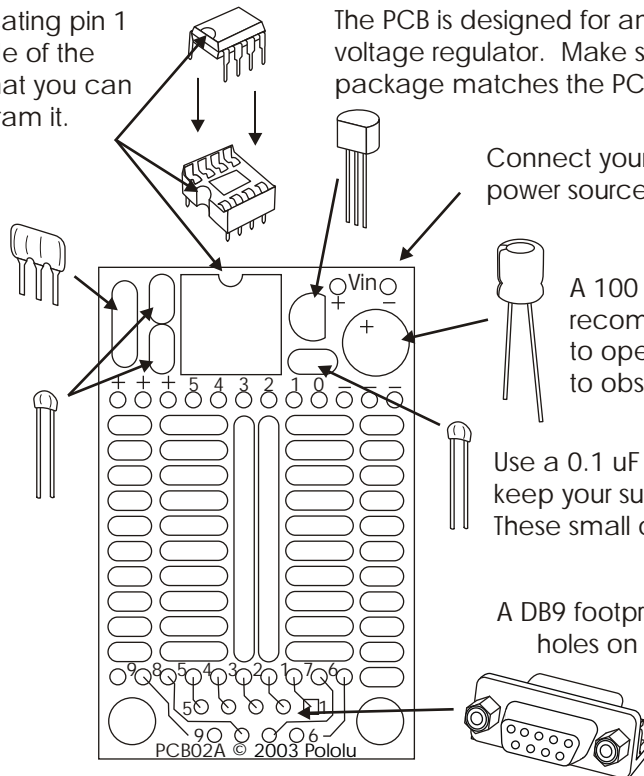
Connect your battery or other power source to the Vin pins.

The 8-pin PICs have built-in oscillators, so an external clock source is optional. The PCB can hold either a ceramic resonator with built-in capacitors or a crystal or resonator with external capacitors.

A 100 uF electrolytic capacitor is recommended for the regulator to operate properly. Make sure to observe the proper polarity.

Use a 0.1 uF ceramic capacitor to keep your supply voltage clean. These small caps are not polarized.

A DB9 footprint is provided. The large holes on the sides can instead be used for mounting holes.



Schematic Diagram

