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## NANO FUSE RESET Instruction Manual

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### Introduction

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The NANO FUSE RESET uses the Arduino Nano Microcontroller to reset Fuse bytes and erase Flash and EEPROM for **ATMEGA 328/328P**. By using the Arduino Nano with a BJT, the device will reset the Flash Program memory, EEPROM Data memory, Memory Lock bits, and Fuse bits in the **ATMEGA 328/328P** using HIGH VOLTAGE PARALLEL PROGRAMMING.

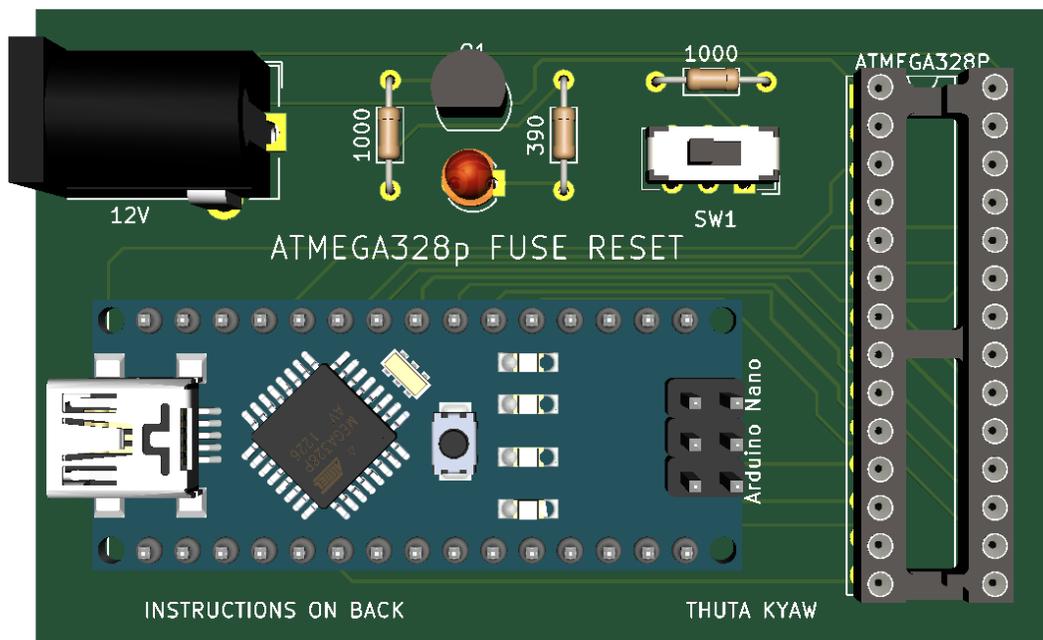


Figure 1: NANO FUSE RESET

### Instructions

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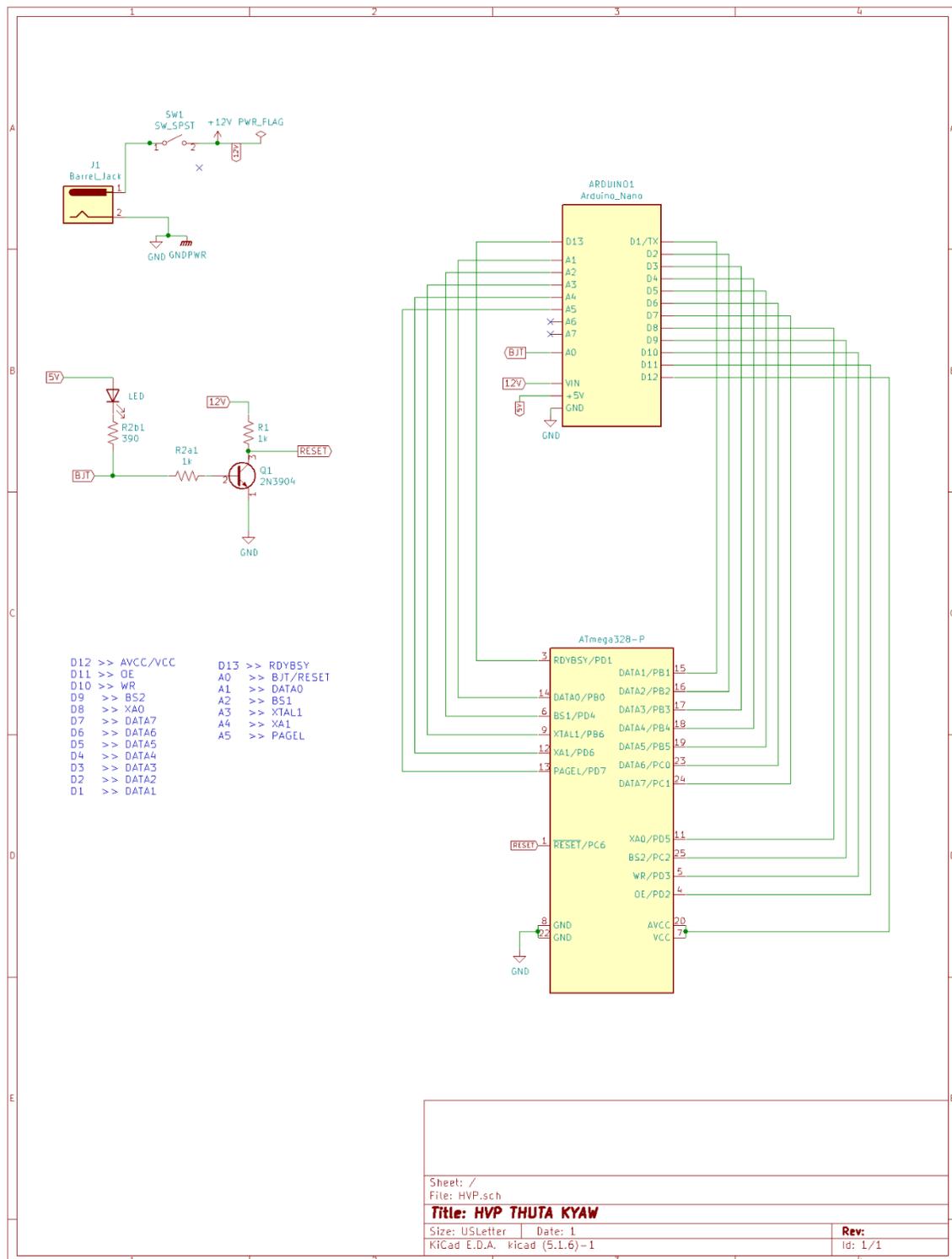
Insert **ATMEGA328/328P**

Connect 12V Power

Ready when RED LED stops flashing

DISCONNECT POWER to avoid frying the voltage regulator\*

SCHEMATIC



## Power Consumption

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Input 12.3V, 50mA

Runtime Approx. 3.5s.

## Notes

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\*DISCONNECT POWER WHEN UNUSED. For unknown reasons, the voltage regulator on the Arduino Nano (even the original one) burns out even though it is rated for higher than 12V.

If there is no power to Arduino, plug in both the USB and 12V to operate the NANO FUSE RESET.

PCB Mistake - Missing GND connection on Pin 8 of DIP Socket

This project is targeted for students who are learning to program their ATMEGA chips. It provides an easy and cheap solution to reprogram misconfigured Fuse/Lock bits.

Learn more about HIGH VOLTAGE PARALLEL PROGRAMMING instructions from Section 28.6 in the [ATmega48A/PA/88A/PA/168A/PA/328/P](#) datasheet.

## Document Revision History

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NANO FUSE RESET Instruction Manual v2. Updated 10.27.2020

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