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## NANO FUSE RESET Instruction Manual

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### Introduction

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.

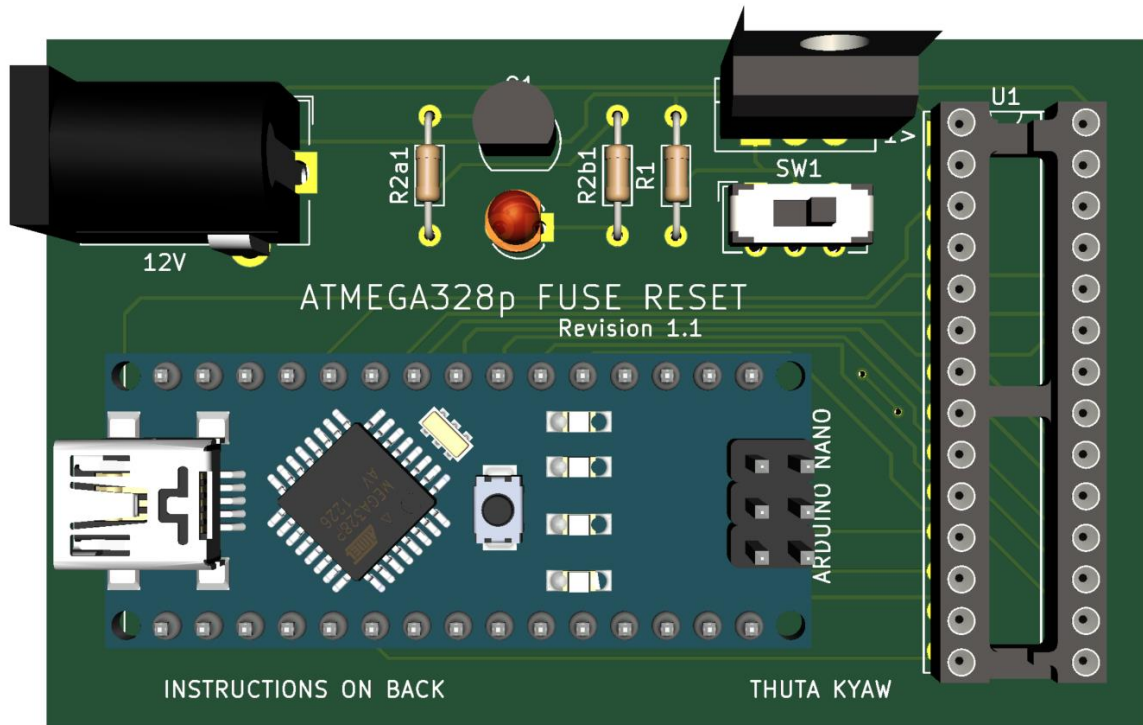


Figure 1: NANO FUSE RESET Rev. 1.1

### Instructions

Insert **ATMEGA328/328P**

Connect 12V Power

Ready when RED LED stops flashing

DISCONNECT POWER \*



## 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. Added a L7805 5V voltage regulator to avoid damaging the LMS1117 on the Arduino Nano

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

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.

## Hardware Revision History

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### Revision 1.1

- Added Pin 1 label for ATMEGA 328/328P

- Added Voltage Regulator

- Connected GND to Pin 8 of ATMEGA328/328p

## Document Revision History

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