

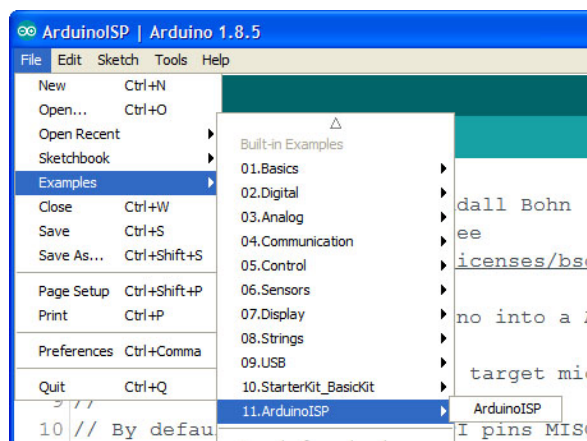
Ustepper S and S Lite bootloader reflashing guide

This guide describes how to reflash a corrupted bootloader to an uStepper S or S Lite, using an Arduino Uno as programmer.

Before starting, please unplug all currently attached arduino boards (including the uStepper and the Arduino Uno to be used as programmer), from your computer. Also unplug any external power sources attached to the uStepper or the Arduino Uno.

Prepare Arduino Uno as programmer

- Remove all wires attached to the Arduino Uno
- Go to Examples->11. ArduinoISP and choose “ArduinoISP”, as shown below:



- Go to “Tools->Board” and choose “Arduino/Genuino Uno”
- Attach a USB cable from your computer to the Arduino Uno, and press the Upload button in the Arduino IDE
- When upload finishes, unplug the USB cable from the Arduino Uno

Connect the Arduino Uno programmer to the uStepper

- Connect the Arduino Uno and the uStepper, using 6 wires as follows:

connect GND of arduino uno to GND of uStepper S / S Lite

connect 5V of arduino uno to 5V of uStepper S / S Lite

connect D11 (MOSI) of arduino uno to D4 (MOSI) of uStepper S / S Lite

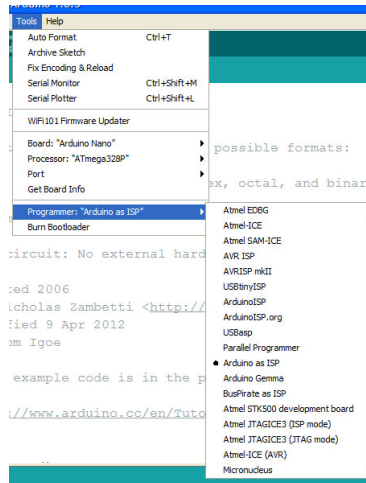
connect D12 (MISO) of arduino uno to D5 (MISO) of uStepper S / S Lite

connect D13 (SCK) of arduino uno to D6 (SCK) of uStepper S / S Lite

connect D10 of arduino uno to RST of uStepper S / S Lite

Program the Bootloader

- Attach a USB cable from your computer to the Arduino Uno
- DO NOT connect a USB cable to the uStepper
- in the Arduino IDE, go to “Tools->Programmer: “ and choose “Arduino as ISP”, as below:



- Go to “Tools->Board” and choose either “uStepper S” or “uStepper S Lite”, depending on which board you are trying to reflash
- Go to “Tools->Burn Bootloader”, as shown below:



- The uStepper should now have a fresh bootloader programmed, and you can unplug all wires from the Arduino Uno