

In this assignment, you will be assembling a predefined circuit, Nema 17 Stepper Control . It uses only a few components and cables to show the capabilities of electronic motors.

Final Deliverables

One Functioning Circuit

2d- Nema 17 Stepper Control(Motor)

What you'll need

CNC Nema 17 Control Sketch(Code)-

Follow the Instructions and Parts list found at the top of the code provided. It will walk you through connections, switches, compiling, and uploading your code. Then once finished test out your circuit by moving the joystick and watching the motor spin.

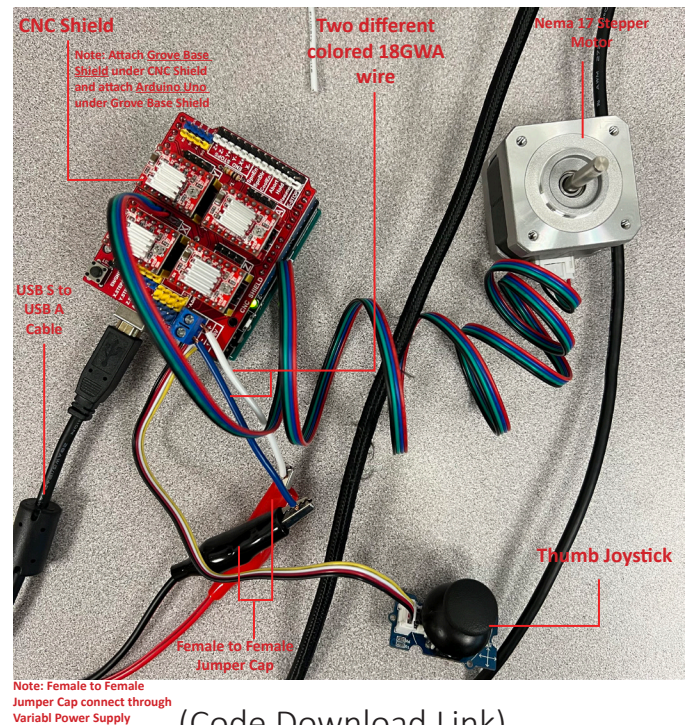
Components Required

- Arduino Uno- Arduinos
- Grove Base Shield- Arduinos
- CNC Shield V3- Stepper Drivers
- USB B to USB A Cable- Misc Cables
- Nema 17 Stepper Motor
- Thumb Joystick- Dials/Switches/LEDS
- Variable Power Supply - 24v 1.5A
- Phillips Head Screw Driver
- Two different colored 18GWA wire
- Wire Strippers
- Female to Female Jumper Cap

Instructions

All instructions on assembly and programming are within the Sketch/Code.

(Proceed to M5A3)



(Code Download Link)