

Stepper driver – Take care

Put a large (at least 47 μ F) electrolytic capacitor across motor power (VMOT) and ground somewhere close to the board.

Electrolytic capacitors can explode if they are connected wrong: longer leg = positive; check "-" marking

Connecting or disconnecting a stepper motor while the driver is powered can destroy the driver.

Set the current of the motor – adjust the potentiometer on the Pololu stepper driver

https://www.youtube.com/watch?v=89BHS9hfSUk

Exercise #2 - Moving stepper motors

Try to move the motor using switches or an arduino dir

OV -> forward

5V -> backward

step

1 pulse = 1 step

1 pulse = 0V->5V->0V

Advanced:

Try to use a library (provides speed profiles)

https://www.pjrc.com/teensy/td_libs_AccelStepper.html https://github.com/laurb9/StepperDriver