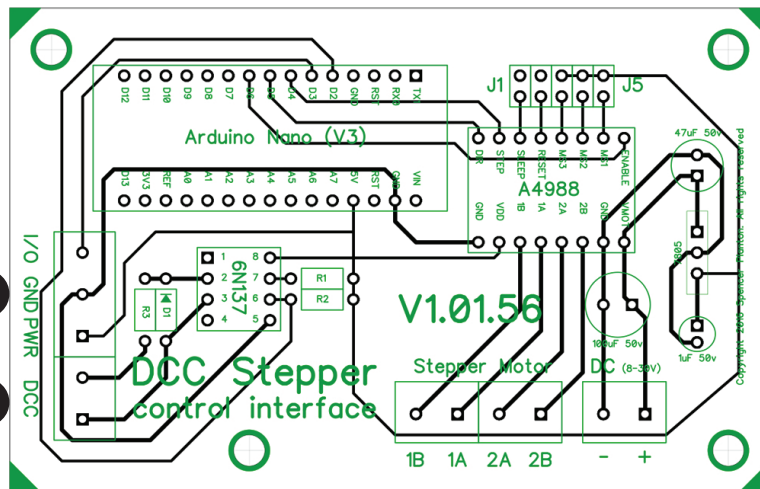


Board Layout and Connections

Sensor

If your project uses a sensor connect it here.

Note: PWR is 5v output to supply the sensor only.



DCC Input

Connect your DCC input here. It does not matter which way round you place your wires.

Stepper Motor Output

Connect your 4 stepper wires as per the instructions provided with your motor.

Rating 8-30v DC (2a max)

Motor Power input

Please ensure that you connect the positive and negative leads correctly. **Failure to do so will blow the capacitor, may damage the A4988 and render the board inoperable.**

Input value: 8-30v DC

Please be sensible when choosing motors and power supplies and avoid running at the extremes of the shown ratings.

Pay particular attention when connecting to the board, ensuring the correct connectors are used for the correct inputs and outputs. Damage may occur if incorrect connections are made.

The A4988 Stepper module will require adjustment for your particular motor requirements. The adjustment pot on the module is NOT set to any arbitrary value during production. Instructions for adjustment can be found here:

<https://www.pololu.com/product/1183>

If you overpower your motor you may burn it out.

Jumpers

J1-2 is bridged to allow the motor to run.

J3-5 allow you to configure the Microstepping

I/O

DCC is on an interrupt = D2

Sensor is on an interrupt = D3

A4988 Step = D4

A4988 Direction = D5

A4988 Enable = D6

The Board is supplied as an amateur project and is intended to help like-minded individuals simplify their projects by reducing wiring and structuring layout. No responsibility can be taken for loss or damage incurred from the use or misuse of this board.

It is the responsibility of the user to investigate and understand the electronics involved and the consequences of any misuse.

If you do not understand, are unsure or have insufficient skills, please do not attempt to use this board.