

## STEPPER MOTOR – NEMA-17 SIZE – 200 STEPS/REV, 12V 350MA



## DESCRIPTION

A stepper motor to satisfy all your robotics needs! This 4-wire bipolar stepper has 1.8° per step for smooth motion and a nice holding torque. The motor was specified to have a max current of 350mA so that it could be driven easily with an [Adafruit motor shield for Arduino](#) (or other motor driver) and a wall adapter or lead-acid battery.

Some nice details include a ready-to-go cable and a machined drive shaft (so you can easily attach stuff). We drove it with an [Adafruit motor shield for Arduino](#) and it hummed along nicely at 50 RPM. To connect to our shield, put the wires in this order: Red, Yellow, skip ground, Green, Brown (or Gray)

## TECHNICAL DETAILS

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- 200 steps per revolution, 1.8 degrees
  - Coil #1: Red & Yellow wire pair. Coil #2 Green & Brown/Gray wire pair.
  - Bipolar stepper, requires 2 full H-bridges!
  - 4-wire, 8 inch leads
  - 42mm/1.65" square body
  - 31mm/1.22" square mounting holes, 3mm metric screws (M3)
  - 5mm diameter drive shaft, 24mm long, with a machined flat
  - 12V rated voltage (you can drive it at a lower voltage, but the torque will drop) at 350mA max current
  - 28 oz\*in, 20 N\*cm, 2 Kg\*cm holding torque per phase
  - 35 ohms per winding
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