

Re: stepper motor power issues...

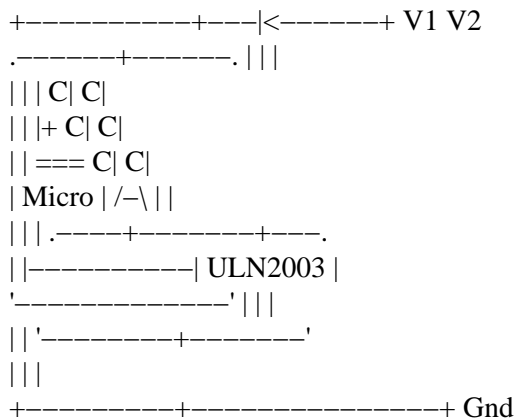
Source: <http://sci.tech-archive.net/Archive/sci.electronics.basics/2008-01/msg00640.html>

- *From:* Randy Day <randy.day@xxxxxxxx>
- *Date:* Sun, 27 Jan 2008 16:16:09 GMT

vwkafer wrote:

I have a pair of unipolar stepper motors that I am trying to drive with a combination of a PIC16F877 and ULN2003A. My code and connections seem to be fine, but I am having trouble finding a power supply/voltage regulator combination that has enough juice to power both motors. Any suggestions? I thought each motor needed 2Amps, but it is clearly using more than that because it works when only one is going but not two. If I assume that they are actually 4amps each instead of 4 amps total, then how could I get 5volts, 8.5amps (I have a few other parts drawing a small amount of current)? I don't want to spend a fortune but I am willing to buy some parts if need be.

One option might be to have separate supplies for each motor, if two 4 amp supplies cost less than one 8-9 amp supply. You could still run the other circuitry off one of the supplies, but I'd recommend using a diode and filter cap to isolate the micro from the motor.



(created by AACircuit v1.28.6 beta 04/19/05 www.tech-chat.de)

HTH

.