

# BigEasyDriver v1.1

[www.schmalzhaus.com/BigEasyDriver](http://www.schmalzhaus.com/BigEasyDriver)

An easy to use bipolar stepper motor driver  
 Use 4 wire, 6 wire or 8 wire stepper motors  
 From about 150mA/phase to about 2A/phase  
 Defaults to 5V for Vcc (logic supply), settable to 3.3V  
 Supply 8V to 35V DC power input on JP1 or JP7  
 Do not connect or disconnect motor  
 while BigEasyDriver is powered

DEFAULT OPTIONS  
 Short JP10, or JP6 pins  
 to GND or Vcc to override

SLEEP = Vcc (awake)  
 MS1 = Vcc (1/16 microstep)  
 MS2 = Vcc (1/16 microstep)  
 ENABLE = GND (enabled)  
 RESET = Vcc (not reset)  
 MS3 = Vcc (1/16 microstep)

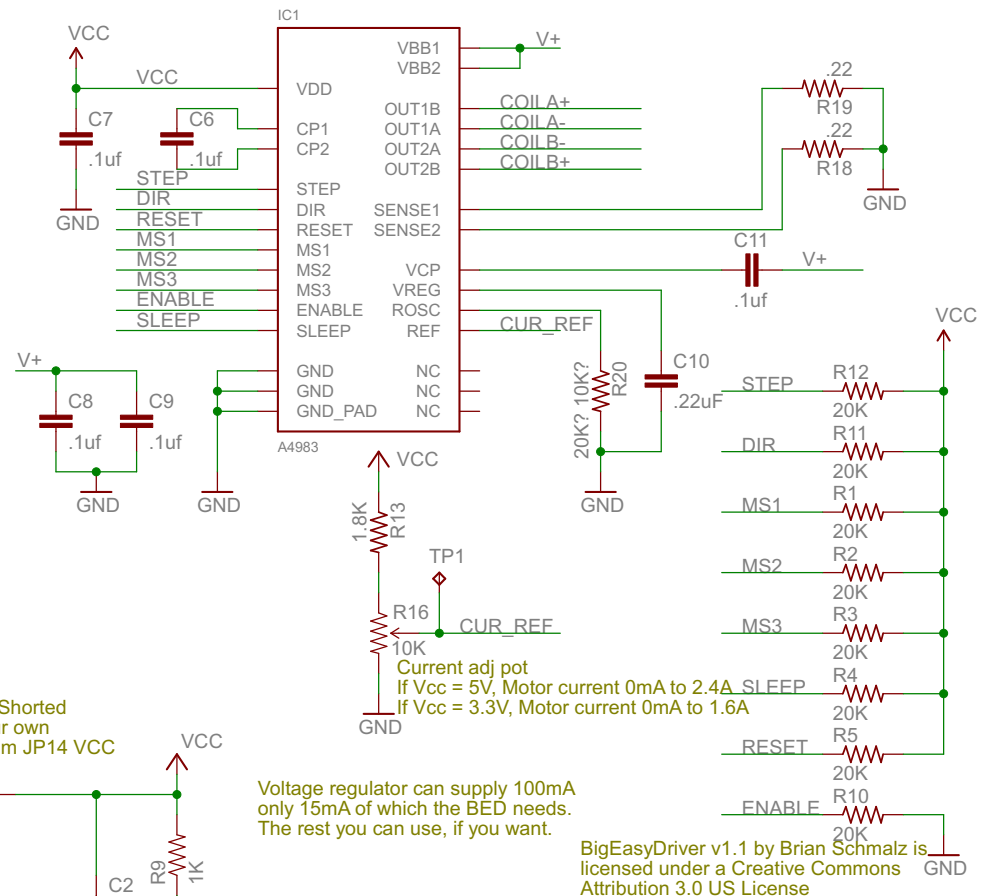
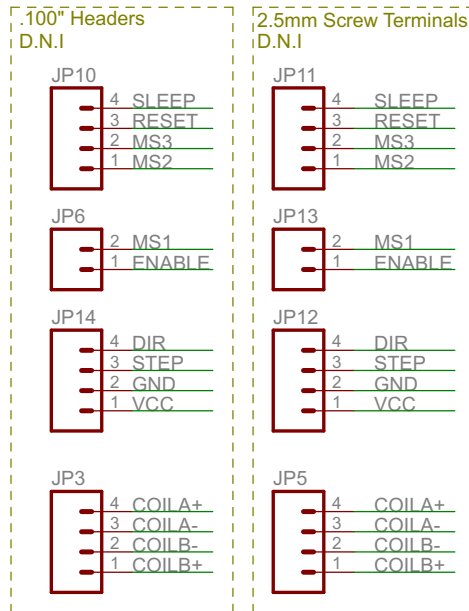
You only need to connect M+, GND  
 STEP, DIR and the motor outputs  
 All other I/O is set to default  
 to 1/16th microstep mode

DIR is level sensitive  
 A rising edge on STEP  
 causes a step  
 Both take 0V to Vcc

Bi-polar Stepper Motor Outputs  
 Coil A of motor across  
 COILA+ and COILA-  
 Coil B of motor across  
 COILB+ and COILB-

Power Input JP1, JP7  
 7V to 35V DC

Change List:  
 v1.0 Original version  
 v1.1 Added pull-ups, re-routed



Voltage regulator can supply 100mA  
 only 15mA of which the BED needs.  
 The rest you can use, if you want.

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