

BigEasyDriver v1.1

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)

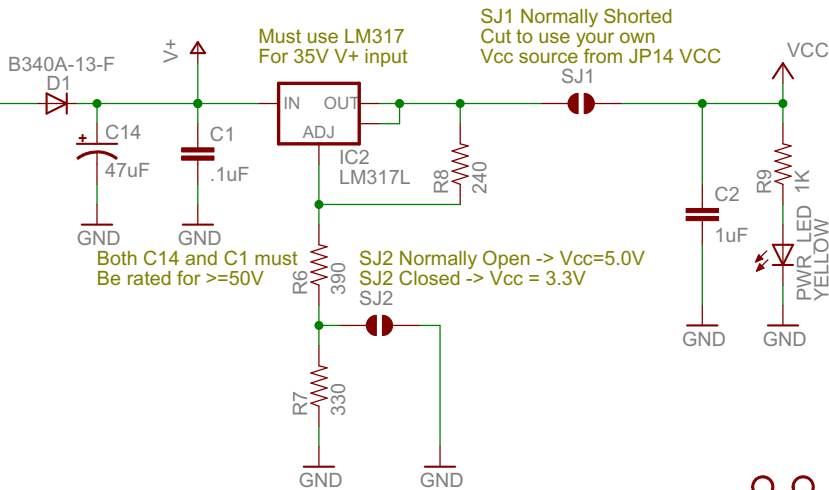
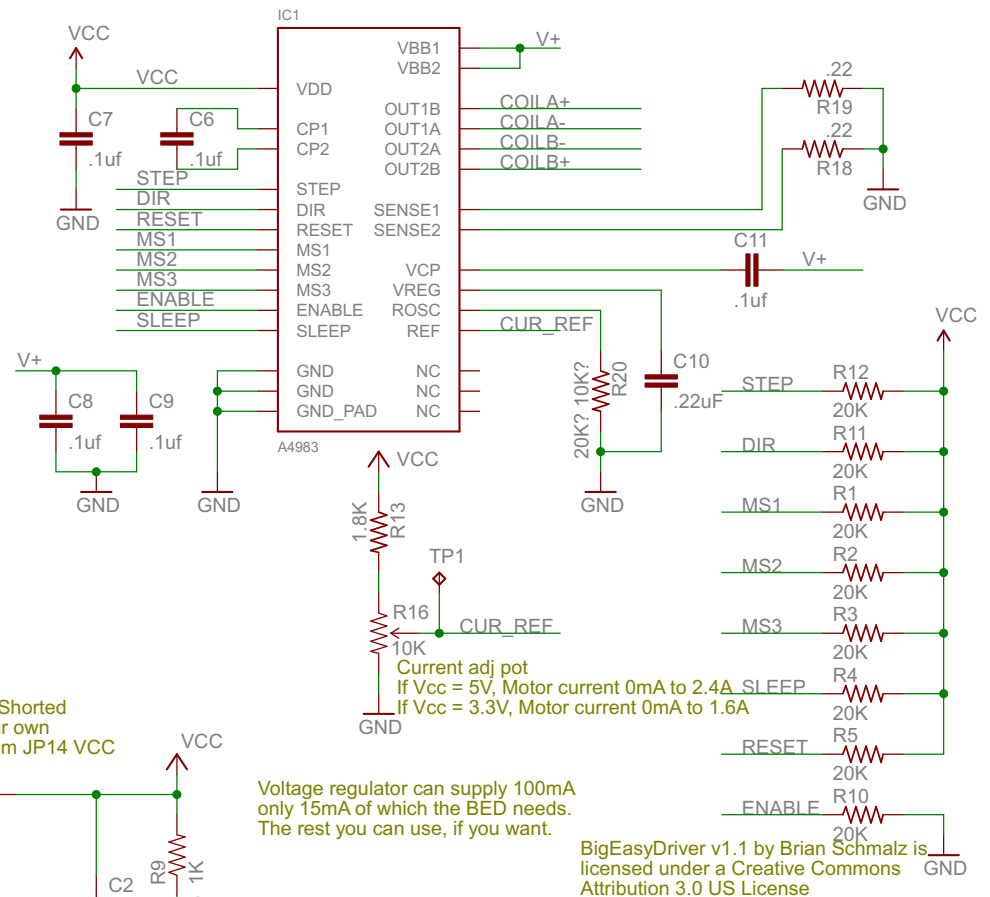
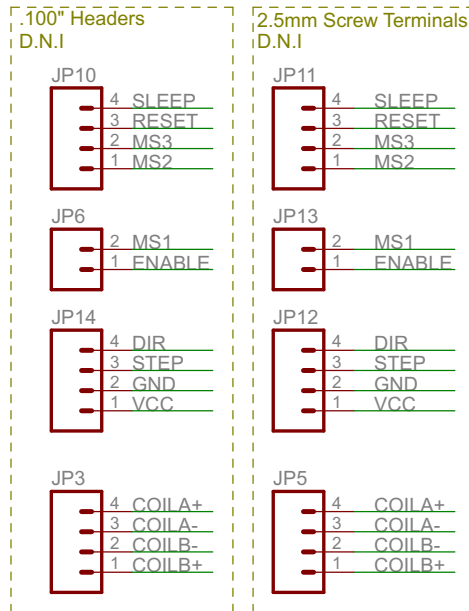
You only need to connect M+, GND, STEP, DIR and the motor outputs
 All other I/O is set to default to 1/16th microstep mode

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



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Produce by Spark Fun Electronics	
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