

An easy to use bipolar stepper motor driver
Use 4 wire, 6 wire or 8 wire stepper motors
From 0mA/phase to over 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

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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
8V to 35V DC

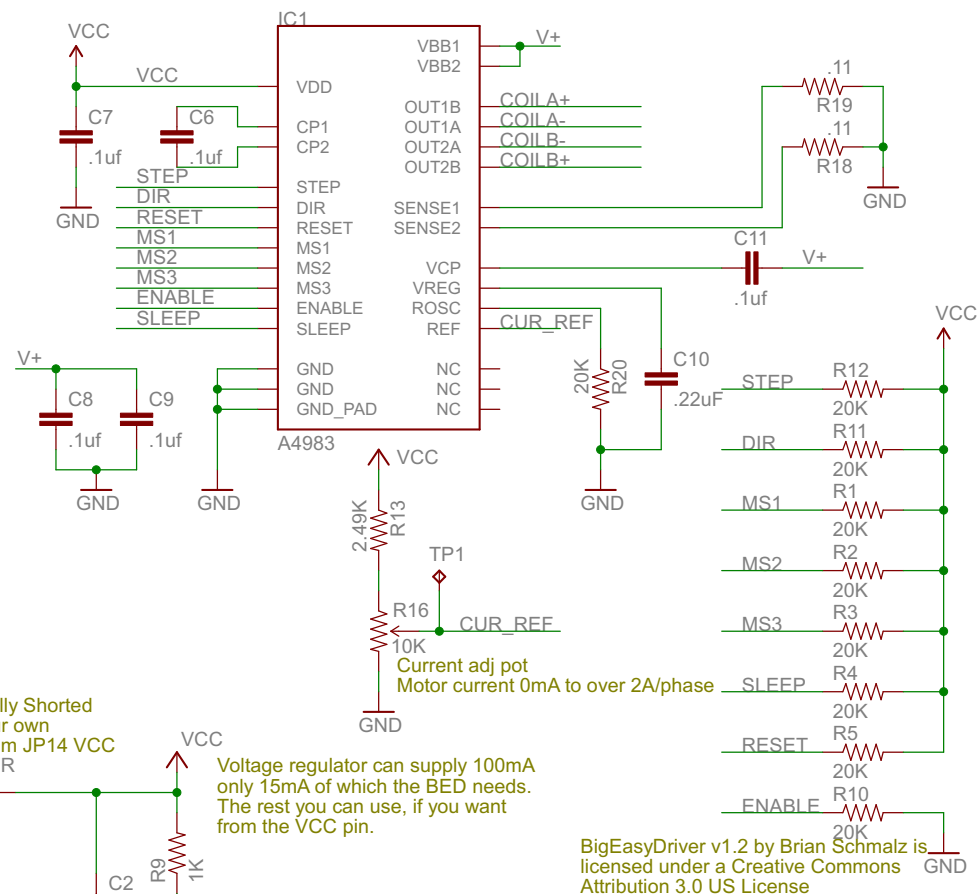
Change List:

- v1.0 Original version
- v1.1 Added pull-ups, re-routed
- v1.2 5/2/11 Silk screen corrections, sense resistors now .11 ohms
SparkFun design rules applied - minor layout tweaks. R13=2.49K

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)

NOTE: VCC is normally an OUTPUT. You do not need to supply power to the Big Easy Driver through VCC. The only power needed is through M+ (motor power).



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Designed by Brian Schmalz

Produced by Spark Fun Electronics

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