

EasyDriver v4.2

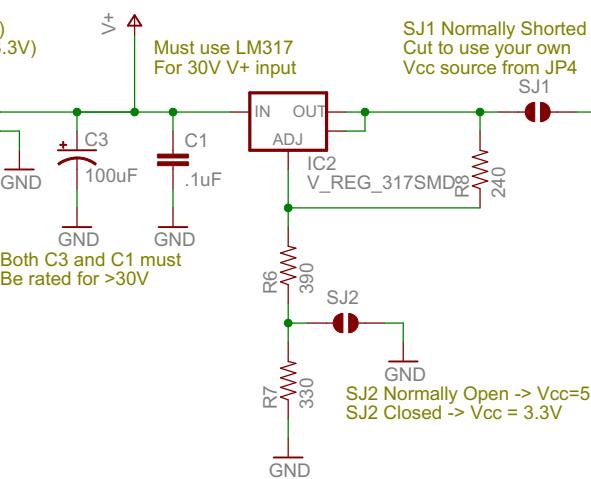
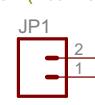
An easy to use bipolar stepper motor driver
 Use 4 wire, 6 wire or 8 wire steper motors
 From about 150mA/phase to about 750mA/phase
 Defaults to 5V for Vcc (logic supply), settable to 3.3V
 Supply 8V to 30V DC power input on JP1
 Do not connect or disconnect motor
 while EasyDriver is powered

DEFAULT OPTIONS
 Short JP5, JP6, JP7 pins
 to GND or Vcc to override

SLEEP = Vcc (awake)
 MS1 = Vcc (1/8 microstep)
 MS2 = Vcc (1/8 microstep)
 ENABLE = GND (enabled)
 RESET = Vcc (not reset)
 PFD = Vcc (slow decay mode)

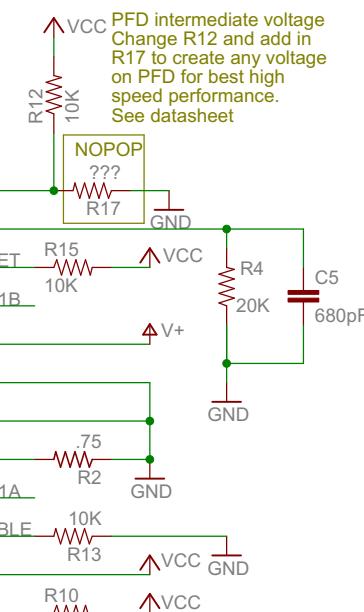
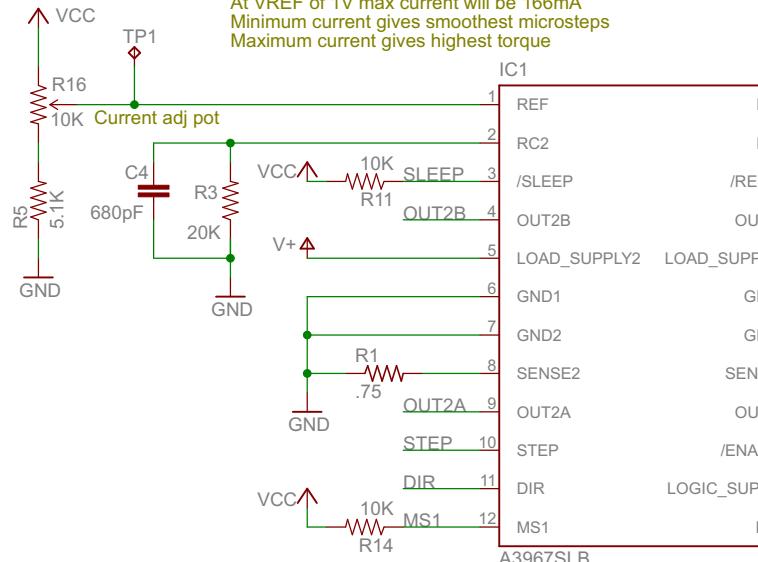


Coil 1 of motor across
 OUT1B and OUT1A
 Coil 2 of motor across
 OUT2B and OUT2A



www.schmalzhaus.com/EasyDriver

TP1 - VREF input to driver
 Monitor this test point with meter
 as you adjust current adj pot
 Valid range 1.0V to Vcc
 At VREF of 5V max current will be 833mA
 At VREF of 3.3V max current will be 550mA
 At VREF of 1V max current will be 166mA
 Minimum current gives smoothest microsteps
 Maximum current gives highest torque



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Designed by Brian Schmalz

Produce by Spark Fun Electronics

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