EasyDriver v4.5

An easy to use bipolar stepper motor driver
Use 4 wire, 6 wire or 8 wire stepper motors
From about 150mA/phase to about 750mA/phase
Defaults to 5V for Vcc (logic supply), suitable to 3.3V
Supply 8V to 38V 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 (1/16 microstep)
ENABLE = GND (enabled)
RESET = Vcc (reset)
PFD = Vcc (slow decay mode)

DIR is level sensitive
A rising edge on STEP
causes a step
Both take 8V to Vcc

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

Power Input
8V to 38V (Vcc = 5V)
6.3V to 38V (Vcc = 3.3V)

Must use LM317
For 38V+ input

SJ1 Normally Shorted
Cut to use your own
Vcc source from JP4

TP1 = Uref input to driver
Monitor this test point with meter
as you adjust current adj pot
Valid range 1.0V to Vcc
At Uref of 5V max current will be 833mA
At Uref of 2V max current will be 333mA
At Uref of 1V max current will be 166mA
Minimum current gives smooth microsteps
Maximum current gives highest torque
Max Coil Current(in Amps) = Vref(Vin Volts)/6
Set R16 to 2.8V at factory = 333mA/phase

PFD intermediate voltage
Set for 'mixed-decay' mode.

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