

Z axis

Mega to EasyDriver (ED):

Pin 10 to Enable

Pin 11 to Dir

Pin 12 to Step

Mega Ground to ED Ground

Other ED connections:

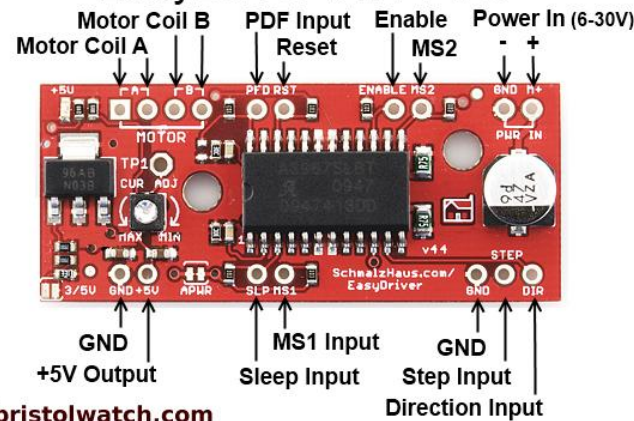
Motor connections to Coil A and B (on my motors Red goes to A1, Green to A2, Yellow to B1 and Blue to B2)

Motor power supply to power in + & -

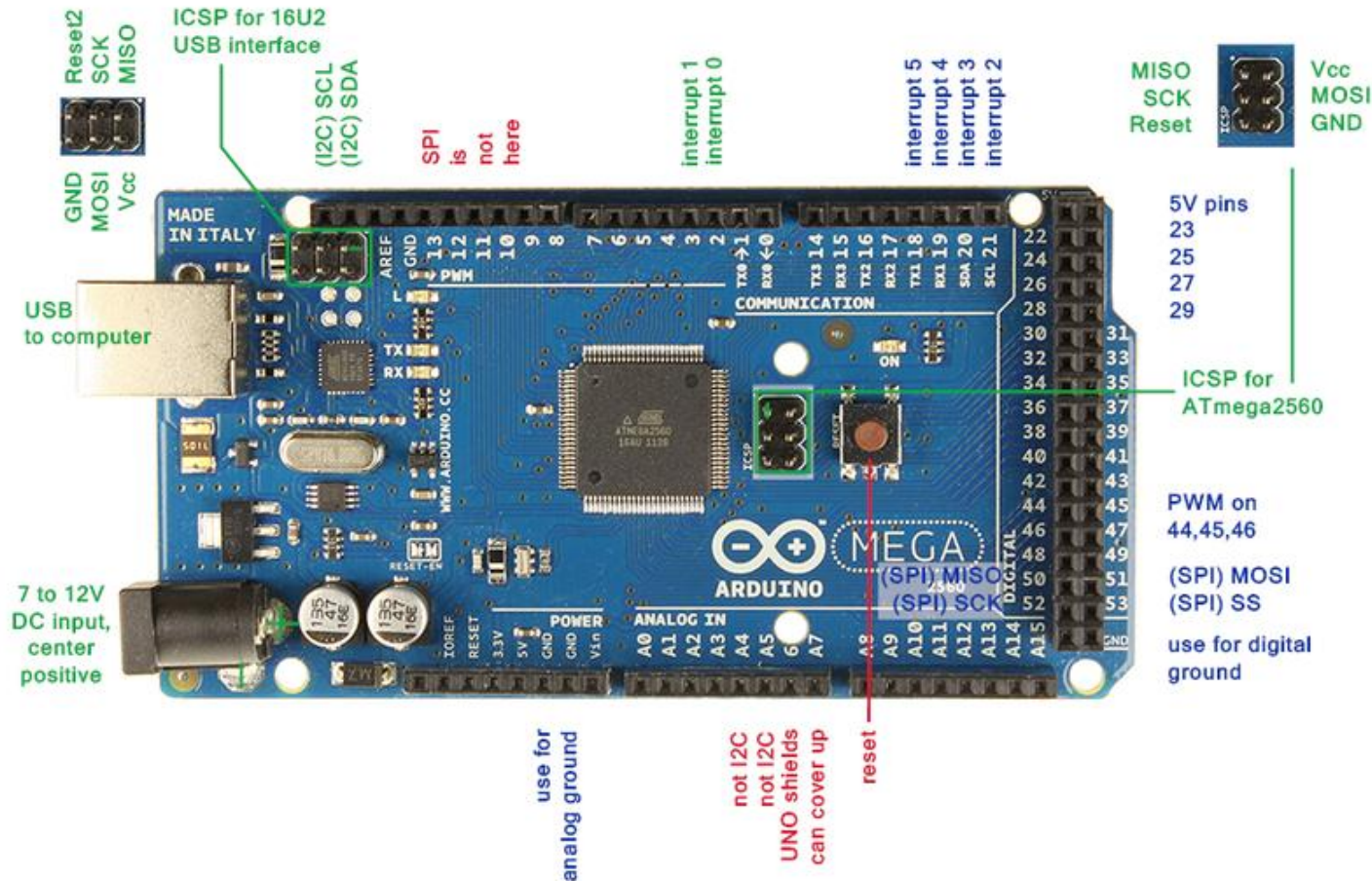
More motors: same wiring but with pins on Arduino

Given in subroutine select_motor

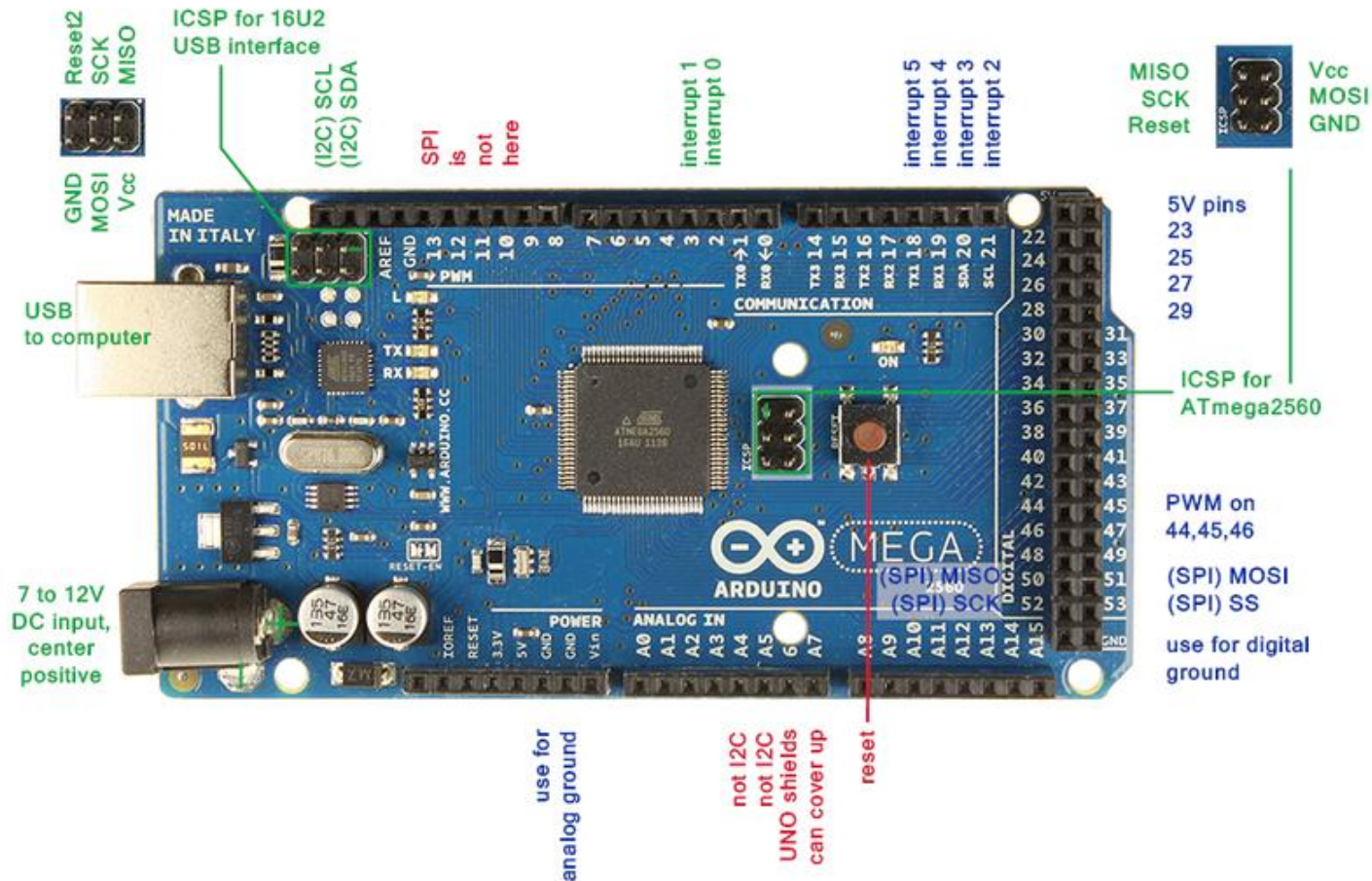
EasyDriver v4.4 Pins



www.bristolwatch.com



Left pin of Encoder Quadrature op to Mega earth



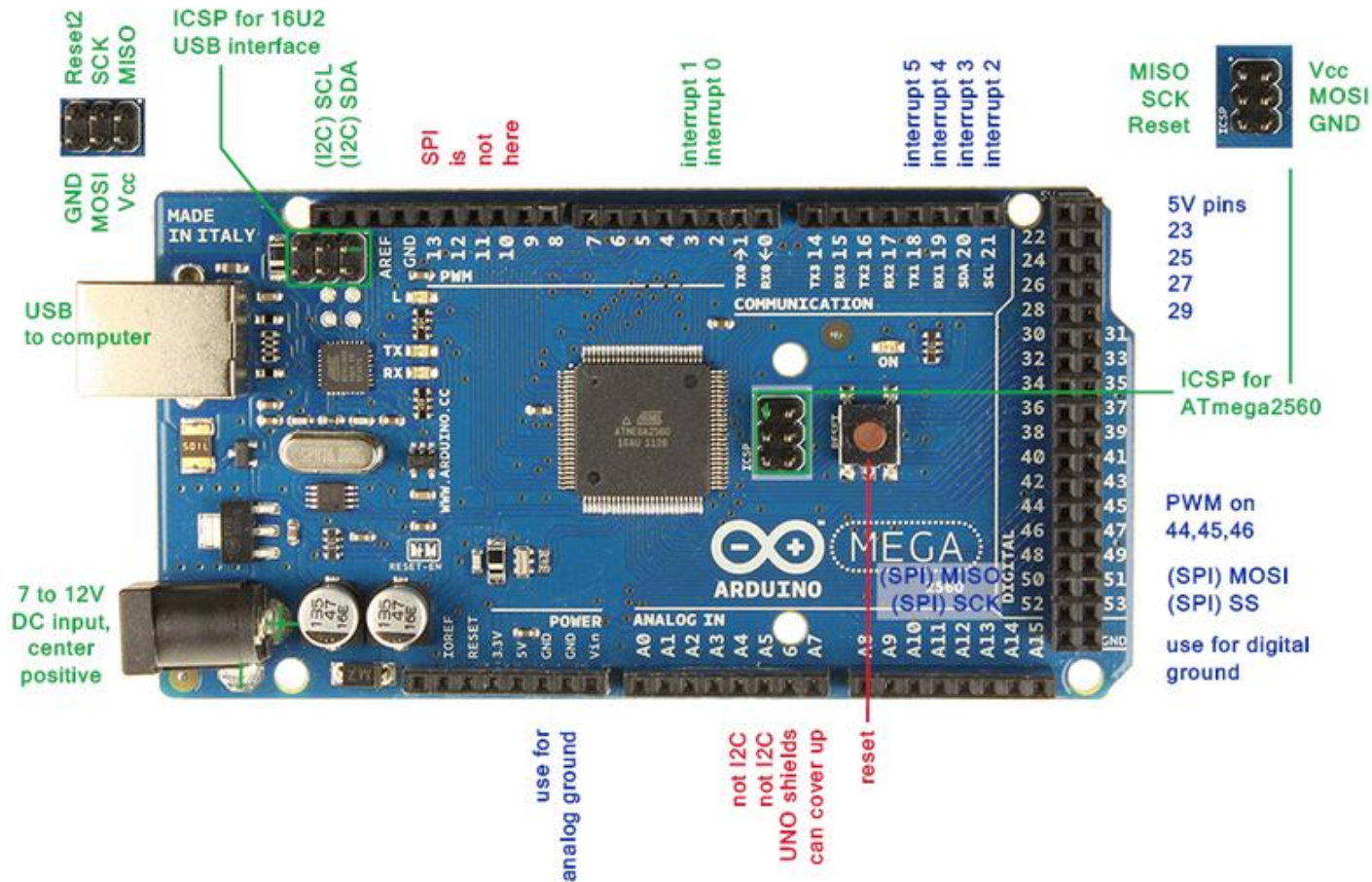
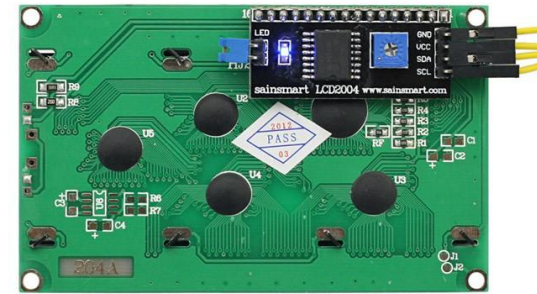
Wiring from Arduino to 4 line I2C LED display:

Pin 20 to SDA

Pin 21 to SLA

5V on Mega to Vcc

Ground on Mega to Ground on I2C



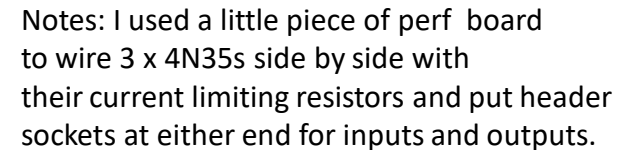
Camera shutter:

Camera prefocus:

Flash:

Reset:

Mega reset pin via push switch to earth to allow reset of device



You may not need the flash connections – the camera can fire your flashes when it is triggered. Prefocus may not be necessary if not using AF.

While it will work, camera 'common (earth)' should not be connected to Mega earth.

Busbars for Mega 5V and Mega ground will make it easier to make multiple connections to earth and power.

Do not disconnect a motor when box is powered up.

I used an old computer brick psu to power the motors. The Arduino is currently powered from USB.

