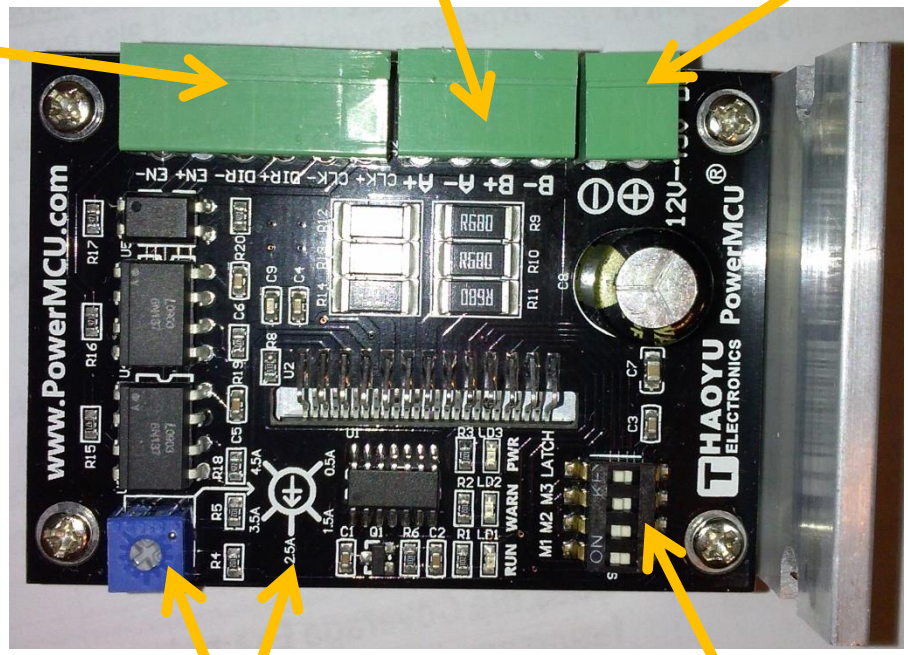
TB6600 with Arduino Setup

Connect to the Arduino:

1. CLK-, DIR-, EN- connect together AND connect to GND on Arduino
2. CLK+ Connect to PIN 9 on Arduino
3. DIR+ Connect to PIN 8
4. EN+ Connect to GND on Arduino

Connect to the stepper motor

Connect to the power supply. (Watch polarity)



Adjust current as outlined on the board. Use multi-meter to measure the current.

Ensure that dip switches are set correctly. M1,M2,M3 **NOT** ALL in ON or OFF position (see table below

```
//Arduino Sketch based on easy driver

int dirpin = 8;
int steppin = 9;
int enable = 7;

void setup()
{
pinMode(dirpin, OUTPUT);
pinMode(steppin, OUTPUT);
digitalWrite(enable, HIGH);
}
void loop()
{
 int i;
 digitalWrite(dirpin, HIGH);    // Set the direction.
 delay(100);
 for (i = 0; i<4000; i++)      // Iterate for 4000 microsteps.
 {
  digitalWrite(steppin, LOW);  // This LOW to HIGH change is what creates the
  delayMicroseconds(400);
  digitalWrite(steppin, HIGH);
  delayMicroseconds(400);     // This delay time is close to top speed for this
 }                            // particular motor. Any faster the motor stalls.
 digitalWrite(dirpin, LOW);    // Change direction.
 delay(100);
 for (i = 0; i<4000; i++)      // Iterate for 4000 microsteps
 {
  digitalWrite(steppin, LOW);  // This LOW to HIGH change is what creates the
  delayMicroseconds(400);
  digitalWrite(steppin, HIGH);
  delayMicroseconds(400);     // This delay time is close to top speed for this
 }                            // particular motor. Any faster the motor stalls.

}
```

M1	M2	M3	Mode(Excitation)
OFF	OFF	OFF	Standby mode (Operation of the internal circuit is almost turned off.)
OFF	OFF	ON	1/1 (2-phase excitation, full-step)
OFF	ON	OFF	1/2A type (1-2 phase excitation A type) (0% - 71% - 100%)
OFF	ON	ON	1/2B type (1-2 phase excitation B type) (0% - 100%)
ON	OFF	OFF	1/4 (W1-2 phase excitation)
ON	OFF	ON	1/8 (2W1-2 phase excitation)
ON	ON	OFF	1/16 (4W1-2 phase excitation)
ON	ON	ON	Standby mode (Operation of the internal circuit is almost turned off.)