

[Stepper Driver DQ542MA](#) Arduino Tutorial

Connection Driver to Arduino

- **PUL+** from Driver to Arduino **PIN7**
- **PUL-** from Driver to Arduino **PIN5**
- **DIR+** from Driver to Arduino **PIN7**
- **DIR-** from Driver to Arduino **PIN6**
- **ENBL+** from Driver to Arduino **PIN7**

Connection Driver to Stepper

- A+ from Driver to Stepper **BLACK** wire
- A- from Driver to Stepper **GREEN** wire
- B+ from Driver to Stepper **RED** wire
- B- from Driver to Stepper **BLUE** wire

Input Voltage 12-48V

- DC- to power supply DC-
- DC+ to power supply DC+

Code Example:

```
int stepPin = 5;
int dirPin = 6;
int enbPin = 7;

void setup() {
  pinMode (stepPin, OUTPUT);
  pinMode (dirPin, OUTPUT);
  pinMode (enbPin, OUTPUT);
  digitalWrite(stepPin, LOW);
  digitalWrite(dirPin, LOW);
  digitalWrite(enbPin, HIGH);
}

void loop() {
  for(int x=0; x<1600; x++){
    digitalWrite(stepPin, HIGH);
    delayMicroseconds(100);
    digitalWrite(stepPin, LOW);
    delayMicroseconds(100);
  }
  digitalWrite(enbPin, LOW);
  exit(0);
}
```

In this example we used:

- [Funduino UNO Rev3](#)
- [Stepper Driver DQ542MA](#) (DIP Switch setting: **only SW4 ON**)
- [Power Supply Industrial 12V 6A 72W MeanWell](#)
- [Stepper Motor 57BYGH420 - 9kg.cm](#)

GROBOTRONICS