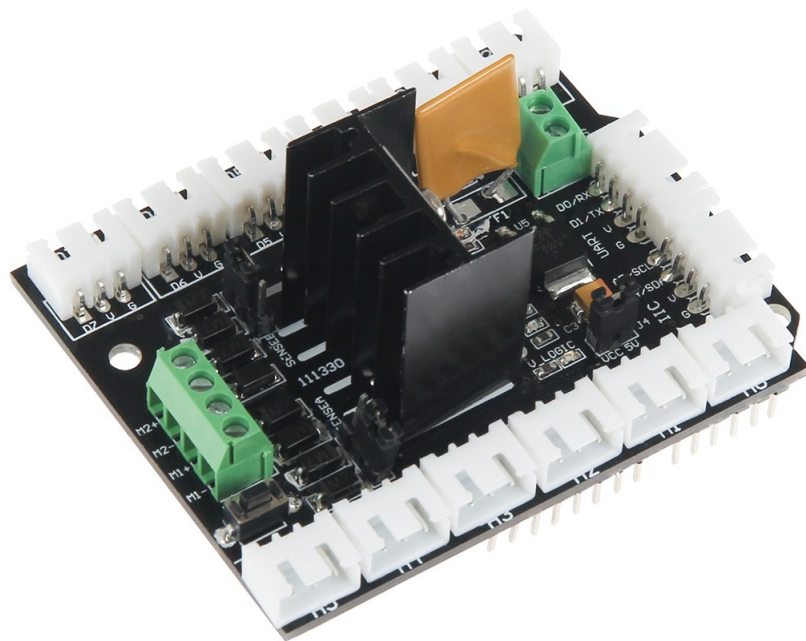


JOY-IT



Moto1
Motorcontrol for Stepper Motors

Index

1. Introduction

2. Connection

3. Installation

4. Support

1. Introduction

Dear customer,
Thank you for choosing our product.
In the following we will show you how to use your product.

If you encounter any unexpected problems during use, please feel free to contact us.

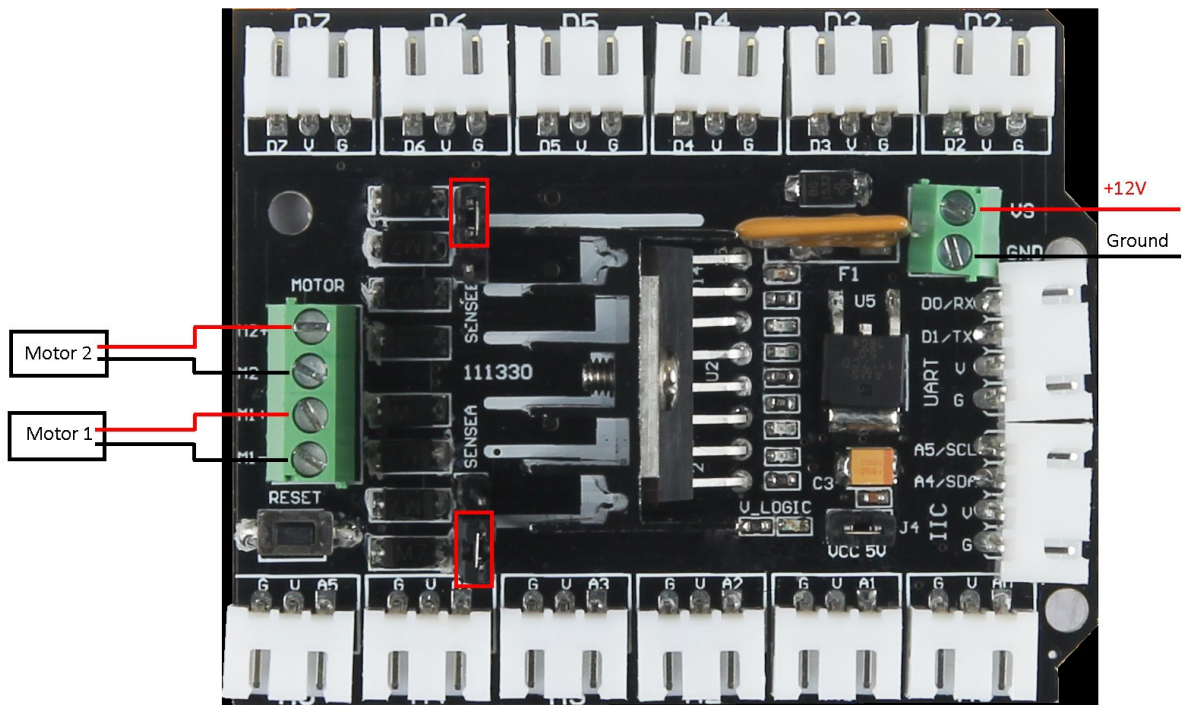
2. Connection

Connect the expansion board to your Arduino so that the PINs of the board fit into the PINs of the Arduino.

The following image shows a detailed wiring diagram.

Please make sure to set the jumpers (marked red in the picture) correctly.

These jumpers set the power supply for the motors.



3. Installation

Below you can find an example code that controls the motors.
Please copy it completely to your Arduino to check the functionality.

```
int pinI1=8;
int pinI2=11;
int speedpinA=9;
int pinI3=12;
int pinI4=13;
int speedpinB=10;
int spead=127;

void setup()
{
pinMode(pinI1,OUTPUT);
pinMode(pinI2,OUTPUT);
pinMode(speedpinA,OUTPUT);
pinMode(pinI3,OUTPUT);
pinMode(pinI4,OUTPUT);
pinMode(speedpinB,OUTPUT);
}
void forward()
{
//Drive motor forward
analogWrite(speedpinA,spead);
analogWrite(speedpinB,spead);
digitalWrite(pinI4,HIGH);
digitalWrite(pinI3,LOW);
digitalWrite(pinI2,LOW);
digitalWrite(pinI1,HIGH);
}
void backward()//
{
//Drive motor backwards
analogWrite(speedpinA,spead);
analogWrite(speedpinB,spead);
digitalWrite(pinI4,LOW);
digitalWrite(pinI3,HIGH);
digitalWrite(pinI2,HIGH);
digitalWrite(pinI1,LOW);
}
```

```
void left()//
{
//Turn Left
analogWrite(speedpinA, speed);
analogWrite(speedpinB, speed);
digitalWrite(pinI4, HIGH);
digitalWrite(pinI3, LOW);
digitalWrite(pinI2, HIGH);
digitalWrite(pinI1, LOW);
}

void right()//
{
//Turn Right
analogWrite(speedpinA, speed);
analogWrite(speedpinB, speed);
digitalWrite(pinI4, LOW);
digitalWrite(pinI3, HIGH);
digitalWrite(pinI2, LOW);
digitalWrite(pinI1, HIGH);
}

void stop()//
{
//Stop the motors
digitalWrite(speedpinA, LOW);
digitalWrite(speedpinB, LOW);
delay(1000);
}

void loop()
{
left();
delay(2000);
stop();
right();
delay(2000);
stop();
// delay(2000);
forward();
delay(2000);
stop();
backward();
delay(2000);
stop();
}
```

4. Support

We also support you after your purchase. If you encounter any problems or if there are any questions left please feel free to contact us by mail, phone or by our ticket-supportsystem on our website.

E-Mail: service@joy-it.net

Ticket-System: <http://support.joy-it.net>

Phone: +49 (0)2845 98469 – 66 (11- 18 Uhr)

Please visit our website for more informations:

www.joy-it.net