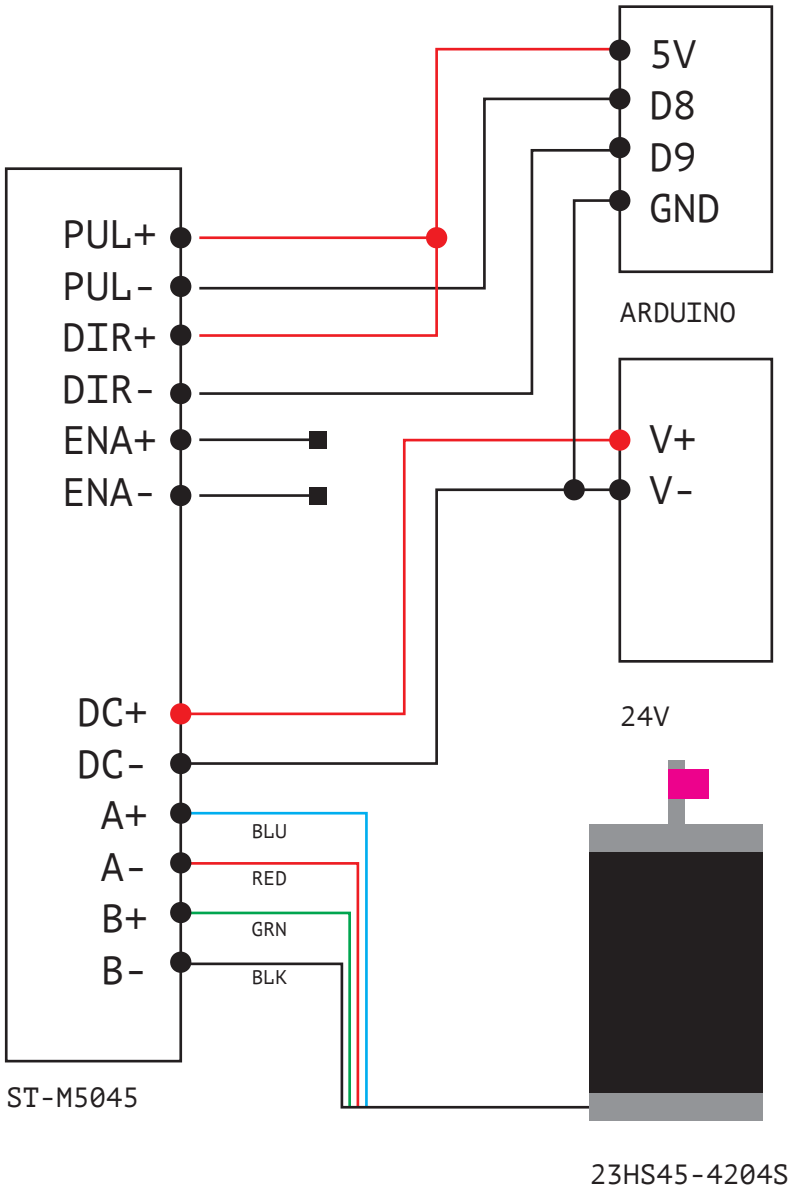
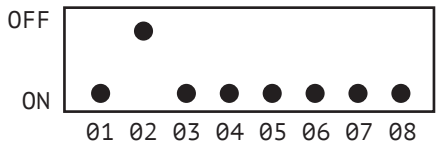


CTC-DRA-10-R2

RUN

PRGRM

DIP SETTINGS ST-M5045



DMX MOTOR COMBINED

CH1 = DIRECTION (GO), CH2 = SPEED (ENERGY)

```
// MOTOR GLOBALS ______________________________________
#include <AccelStepper.h>
int motorDirPin = 9; //digital pin 6
int motorStepPin = 8; //digital pin 3
AccelStepper stepper(1, motorStepPin, motorDirPin);
int energy = 1000;    // The current speed in steps/second
int topSpeed = 750; // The max speed in the energy mapping
int go = 1;      // Either 1, 0 or -1

// DMX GLOBALS ________________________________________
#include <Conceptinetics.h>
#define DMX_SLAVE_CHANNELS   2
DMX_Slave dmx_slave ( DMX_SLAVE_CHANNELS );
const int ledPin = 13;
void setup()
{
  // MOTOR SETUP
  stepper.setMaxSpeed(1000);
  stepper.setSpeed(1000);

  // DMX SETUP
  dmx_slave.enable ();
  dmx_slave.setStartAddress (1);
  pinMode ( ledPin, OUTPUT );
}

void loop()
{

  energy = dmx_slave.getChannelValue (2);
  energy = map(energy, 0, 255, 0, topSpeed);

  if ( dmx_slave.getChannelValue (1) > 127 ) {
    digitalWrite ( ledPin, HIGH );
    go = 1;
  }

  if ( dmx_slave.getChannelValue (1) < 127 ) {
    digitalWrite ( ledPin, LOW );
    go = -1;
  }

  stepper.setSpeed(go * energy);
  stepper.runSpeed();

}
```

STEPPER - SERIAL MONITOR CONTROL

```
#include <AccelStepper.h>

int motorDirPin = 9; //digital pin 6
int motorStepPin = 8; //digital pin 3
AccelStepper stepper(1, motorStepPin, motorDirPin);

int spd = 1000;    // The current speed in steps/second
int sign = 1;      // Either 1, 0 or -1

void setup()
{
  Serial.begin(9600);
  stepper.setMaxSpeed(1000);
  stepper.setSpeed(1000);
}

void loop()
{
  char c;
  if(Serial.available()) {
    c = Serial.read();
    if (c == 'f') {  // forward
      sign = 1;
    }
    if (c == 'r') {  // reverse
      sign = -1;
    }
    if (c == 's') {  // stop
      sign = 0;
    }
    if (c == '1') {  // super slow
      spd = 10;
    }
    if (c == '2') {  // medium
      spd = 100;
    }
    if (c == '3') {  // fast
      spd = 1000;
    }
    stepper.setSpeed(sign * spd);
  }
  stepper.runSpeed();
}
```

DMX - SLAVE MODE

```
#include <Conceptinetics.h>
#define DMX_SLAVE_CHANNELS   10

DMX_Slave dmx_slave ( DMX_SLAVE_CHANNELS );

const int ledPin = 13;

void setup() {
  dmx_slave.enable ();
  dmx_slave.setStartAddress (1);
  pinMode ( ledPin, OUTPUT );
}

void loop()
{
  if ( dmx_slave.getChannelValue (1) > 127 )
    digitalWrite ( ledPin, HIGH );
  else
    digitalWrite ( ledPin, LOW );
}
```