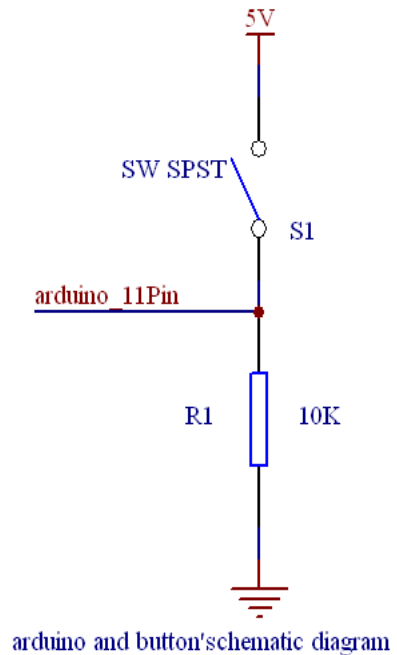
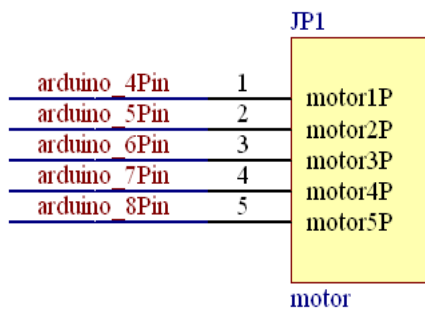


## 5V 4-Phase 5-Wire Stepper Motor work with Arduino

Connection diagram with Arduino board:



NOTE: Motor pin number is defined from left to right.



DC 5V Step Motor Connection with Arduino Diagram

### Demo Code

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This Procedure code can adjust the stepper motor's speed. As long as adjusting the delay functions if(key==1) or if(key==0), and then the speed will change accordingly. The accurate speed regulation should accord to the stepper motor characteristics and related calculation formula.

```
char motorPin[]={4,5,6,7};
```

```
int i;
```

```
int key = 0;
```

```
int button = 11;
```

```
void motor1()
```

```
{
```

```
digitalWrite(motorPin[0],LOW);
```

```
digitalWrite(motorPin [1],HIGH);
```

```
digitalWrite(motorPin [2],HIGH);
```

```
digitalWrite(motorPin [3],HIGH);
```

```
}
```

```
void motor2()
```

```
{
```

```
digitalWrite(motorPin [0],HIGH);
```

```
digitalWrite(motorPin [1],LOW);
```

```
digitalWrite(motorPin [2],HIGH);
```

```
digitalWrite(motorPin [3],HIGH);
```

```
}
```

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```
void motor3()
{
    digitalWrite(motorPin [0],HIGH);
    digitalWrite(motorPin [1],HIGH);
    digitalWrite(motorPin [2],LOW);
digitalWrite(motorPin [3],HIGH);
}
void motor4()
{
    digitalWrite(motorPin [0],HIGH);
    digitalWrite(motorPin [1],HIGH);
    digitalWrite(motorPin [2],HIGH);
    digitalWrite(motorPin [3],LOW);
}
void motor5()
{
    digitalWrite(motorPin [0],HIGH);
    digitalWrite(motorPin [1],HIGH);
    digitalWrite(motorPin [2],HIGH);
    digitalWrite(motorPin[3],HIGH);
}
void setup()
{
Serial.begin(9600);
for(i=0;i<4;i++)
pinMode(motorPin [i],OUTPUT);
pinMode(button,INPUT);
}
void loop()
{
    key = digitalRead(button);
    if(key==LOW)
    {
motor1();
    delay(5);
    motor2 ();
    delay(5);
    motor3();
    delay(5);
    motor4();
```

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```
delay(5);
}
if(key==HIGH)
{
motor4();
delay(10);
motor3();
delay(10);
motor2();
delay(10);
motor1();
delay(10);
}
}
```

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