

## Easy Pump arduino stepper

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VIEW IN BROWSER

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### Summary

Easy pump with arduino and Stepper motor.

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Easy pump with arduino and Stepper motor.

<https://youtu.be/dSIVYtNwtlo>

i use:

6x bearings: 10x5x4 mm

NEMA 17 Stepper motor with 5mm shaft

steper driver pololu A4988

Arduino Nano

rezistor 10k

switch

silicone pipe 5x3mm

some screws M3,M2 and nuts

arduino code:

```
int x;
```

```
const int buttonPin = 2;
```

```
int buttonState = 0;
```

```

void setup()
{
  pinMode(6, OUTPUT); // Enable
  pinMode(5, OUTPUT); // Step
  pinMode(4, OUTPUT); // Dir
  digitalWrite(6, LOW); // Set Enable low
  pinMode(buttonPin, INPUT);
  Serial.begin(9600);

}

void loop()
{
  buttonState = digitalRead(buttonPin);

  Serial.println(buttonState);

  if (buttonState == HIGH) {

    digitalWrite(6, LOW); // Set Enable low
    digitalWrite(4, HIGH); // Set Dir high

    for (x = 0; x < 4000; x++) // Loop 200 times { digitalWrite(5, HIGH); //
    Output high delayMicroseconds(300); // Wait 1/2 a ms digitalWrite(5, LOW);
    // Output low delayMicroseconds(300); // Wait 1/2 a ms } delay(1000); //
    pause one second }
    else {

    digitalWrite(6, HIGH); // Set Enable low

  }

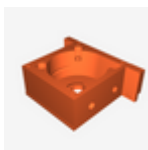
}

```

## Print instructions

Category: Outdoor & Garden

## Model files



**base.stl**



**cross2.stl**



**cross.stl**

[Find source .stl files on Thingiverse.com](#)

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