```
/*
  MotorKnob

  A stepper motor follows the turns of a
potentiometer
  (or other sensor) on analog input 0.

  http://www.arduino.cc/en/Reference/Stepper
  This example code is in the public domain.
*/

#include <Stepper.h>

//       change this to the number of steps on your
motor
#define STEPS 400

//       create an instance of the stepper class,
specifying
//       the number of steps of the motor and the
pins it's
//       attached to
Stepper stepper(STEPS, 2, 3, 4, 5);

//       the previous reading from the analog input
int previous = 0;

void setup() {
//       set the speed of the motor to 30 RPMs
  stepper.setSpeed(30);
  Serial.begin(9600);
}

void loop() {
//       get the sensor value
  int val = analogRead(A4);

//       move a number of steps equal to the change
in the
//       sensor reading
  Serial.println(val );
  val = map(val, 0, 1023, 0, 400);
  if ((val > previous + 6) || (val < previous - 6)) {
    stepper.step(val - previous);
 Serial.println("!");
//       remember the previous value of the sensor
    previous = val;
  }
}
```

Set The Pins for Stepper Motor

Speed 30 RPMs

Sets the data rate in bits per second (baud) for serial data transmission. For communicating with the computer, use one of these rates: 300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, or 115200.

Potentiometer Input Pin

Normal Analog Read Value

Number of the steps Input

Easy Driver is 0.9 deg/step

Avoid Jittering

Potentiometer can change the value even when we are not touching it