

Equipment Needed

1. - ARDUINO UNO

2. - 31306-MS 2A Full bridge stepper motor driver

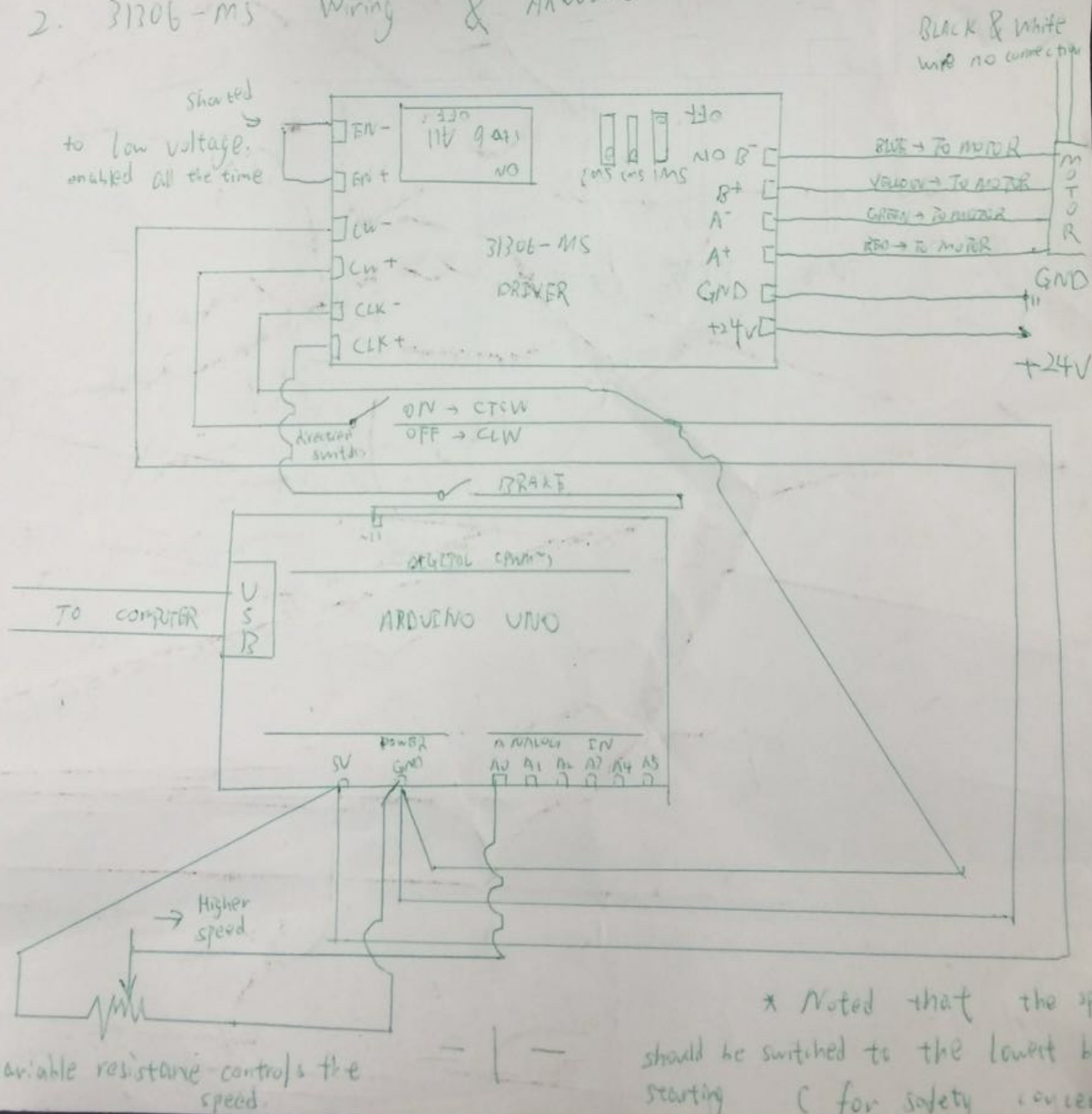
3. - Stepping motor

57BYGH213-25

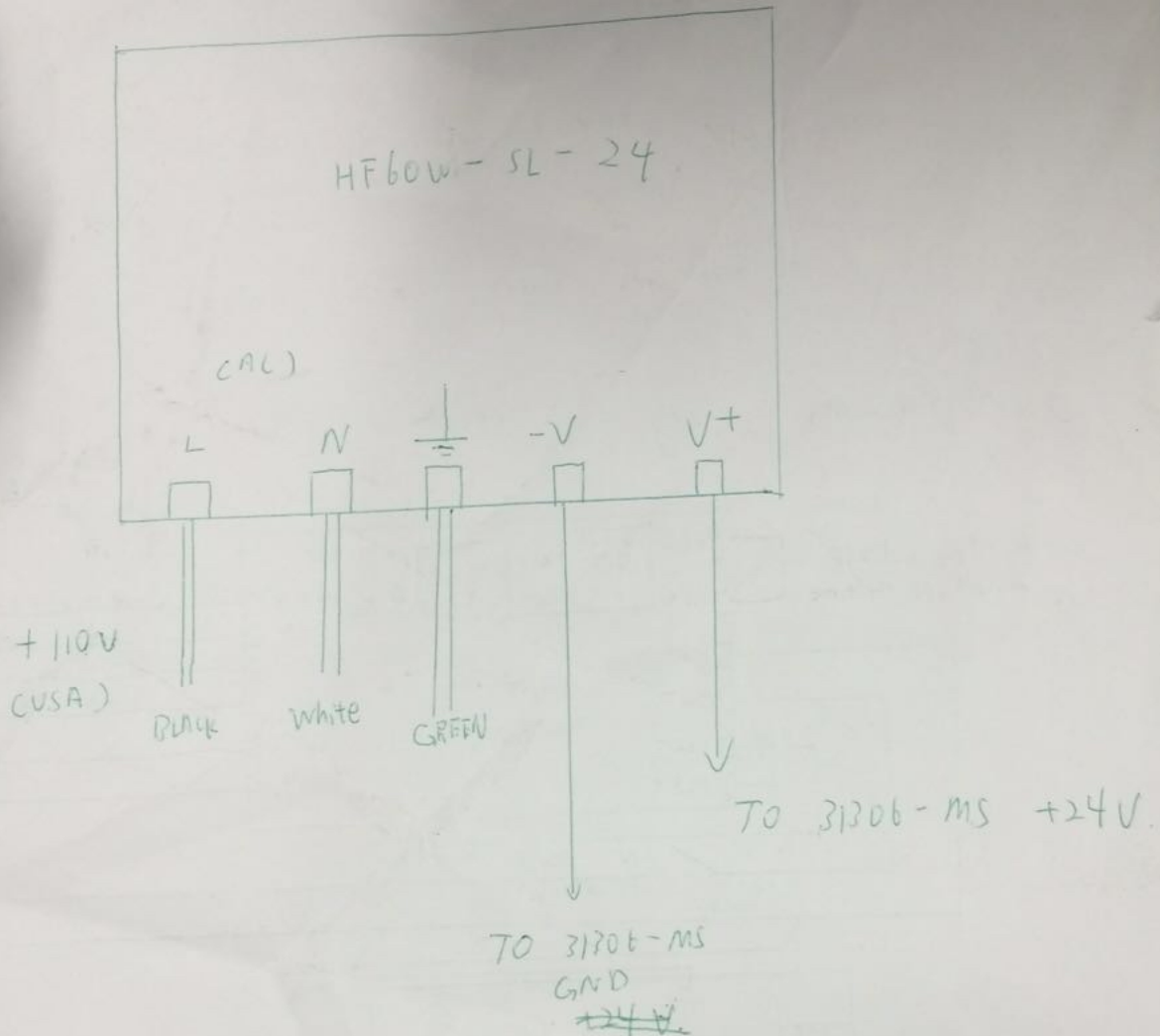
4. 14F60W - 5L-24 switching power supply

+ Breadboards, wires, switches (latching), variable resistor

2. 31306-MS Wiring & ARDUINO WIRING.



3. HF60W-SL-24 Wiring



4. Arduino Running Code

```
void setup() {  
  Serial.begin (9600);  
  pinMode (A0, INPUT);  
}  
void loop() {  
  double x = analogRead (A0);  
  double t = x / 10;  
  double a = analogRead (A1); // Port settings here MUST  
  analogWrite (11, 255); // Be identical to ur wiring.  
  delay (t);  
  analogWrite (11, 0);  
  delay (t); // Just one of the speed controlling  
  // Algorithms, not the best one  
}
```

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4. Arduino Running Code

```
void setup() {  
  Serial.begin(9600);  
  pinMode(CA0, INPUT);  
}  
void loop() {  
  double x = analogRead(CA0);  
  double t = x / 10;  
  // double a = analogRead(CA1); // Port settings here MUST  
  analogWrite(C11, 255); // Be identical to ur wiring.  
  delay(t);  
  analogWrite(C11, 0);  
  delay(t); // Just one of the speed controlling  
  // Algorithms, not the best one.  
}
```