```
/*
Arduino output to flyback is the drivingPin

*/


int drivingPin = 12;
void setup() {
Serial.begin(9600);
}
void loop()  {
  int startFreq = 1000;
  int endFreq = 25000;
  int increments = 1000;
  for(int currentFreq = startFreq ; currentFreq <= endFreq; currentFreq += increments) {
    //turn it on for a bit
    tone(drivingPin, currentFreq);
    Serial.print("current freq:");
    Serial.println(currentFreq);
    delay(2000);
    //turn it off for a bit to cool
    noTone(drivingPin);
    digitalWrite(drivingPin, LOW);
    delay(3000);
  }
}
```