



G-Scale Model of the Sanitize Station

The model Sanitize Station was made using a 3D printer. Although it was scaled down 1:24, the thickness of the parts was too thin and the first unit was structurally unsound. The thickness of the parts had to be scaled up.

The flashing lights are 3mm LEDs. The flasher circuit uses an Amtel ATtiny 13a microcontroller. For ease of construction and cost, a programming module was used. The ATtiny 13a costs around \$1.00 and the programming board is about \$1.60 if you order it on eBay. As you can see the circuit and the program are simple.

It is powered by a 5-volt wall wart with a USB cable which plugs into the circuit board. The connection between the circuit board and the model crass-buck is made through a 3.5 mm audio cable.

The ATtiny cannot sink current. As you can see, this requires three wires running to the LEDs from the timer circuit as opposed to the full-size stations which need only two.

G-Scale Flasher

ATtiny 13 A program

```

void setup() {
  pinMode(4, OUTPUT); // sets the digital pin 13 as output
  pinMode(3, OUTPUT);
}
void loop() {
  digitalWrite(3, LOW);
  digitalWrite(4, HIGH); // sets the digital pin 13 on
  delay(1000); // waits for a second
  digitalWrite(4, LOW); // sets the digital pin 13 off
  digitalWrite(3, HIGH);
  delay(1000); // waits for a second
}
        
```

ATtiny Programmer

Rear View

to LEDs

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