* Adding a reset button so that if the middle motor jams, a reset button can be pressed to send it back to home
* For the bookmark, we should’ve used a keypad to type in the starting page number

| **Component** | **Mean Idle Voltage (V)** | **Mean Active Voltage (V)** |
| --- | --- | --- |
| Power Adapter | 5.215 | 5.185 |
| Left Motor | 5.215 | 5.175 |
| Center Motor | 5.140 | 5.120 |
| Right Motor | 5.130 | 5.130 |
| Microcontroller | 5.200 | 5.150 |
| Left Foot Pedal | 5.200 | 5.170 |
| Right Foot Pedal | 5.145 | 5.135 |
| Liquid Crystal Display (LCD) | 5.200 | 5.140 |

Sometimes the system experiences a voltage drop, when idle and moving, around 800 mV. The first time testing this did not occur, but it did the second time. This could be due to the wiring we used to connect the oscilloscope probes. Either way it is less than a volt so the backward EMF is negligible.

Sampling Rate: 500 MS/s

**Left Motor**

Idle: 5.33 (max), 5.10(min)

Moving: 5.30 (max), 5.05 (min)

**Middle Motor**

Idle: 5.25 (max), 5.03 (min)

Moving: 5.23 (max), 5.01 (min)

**Power Plug**

Idle: 5.33 (max), 5.10 (min)

Moving: 5.31 (max), 5.06(min)

**Left Foot Pedal:**

Idle: 5.31(max), 5.09(min)

Moving: 5.29 (max), 5.05(min)

**Right Motor:**

Idle: 5.25 (max), 5.01(min)

Moving: 5.25 (max), 5.01(min)

**Right Foot Pedal:**

Idle: 5.28 (max), 5.01(min)

Moving: 5.26 (max), 5.01(min)

**LCD:**

Idle: 5.38 (max), 5.02(min)

Moving: 5.26 (max), 5.02(min)

4/24/23 Testing Videos Needed

* Oscilloscope testing setup for one component (take picture)
* Video pressing switches to to read LCD changes
* Video Turning one page forward and back (must be 10 seconds)
* Cut Original video to 1 min + 10 sec
* Take video with multimeter of Uconn

