Sarah Philo

**Project Identity:** Classic Rocker, Week 4, 2/15/06

**Work Completed:**

This week I connected the DPDT switches that arrived to both the motor controller and the stereo wiring. Both worked perfectly. I then returned the squish switch purchased from TFH USA, because no current would run through it, regardless of whether the switch was open or closed. It was also determined that the squish switch could be fabricated from a DPDT switch, foam, and fabric for much less than the $50 we paid for the TFH product. I also began to design and order the parts for the switches themselves. I ordered 3 boxes from OKW Enclosures—one for the touch switch, one to enclose the motor controller, and one to house the caretaker switches. Lastly, I tried to find the amount of current needed to trigger the circuit breakers in order to test them.

![Figure 1: Touch Switch Enclosure](image1)

![Figure 2: DPDT Switch](image2)

73 Design User Control Tower 15 days Fri 3/24/06 Fri 4/7/06
74 Cut Parts 15 days Fri 3/24/06 Fri 4/7/06
75 Construct 15 days Fri 3/24/06 Fri 4/7/06
76 Attach to Frame 15 days Fri 3/24/06 Fri 4/7/06
77 Construct Touch Pad Switch 15 days Fri 3/24/06 Fri 4/7/06
78 Optimize Purchased Squish Switch 15 days Fri 3/24/06 Fri 4/7/06
79 Install Switches 15 days Fri 3/24/06 Fri 4/7/06

This is what I worked on this week, while waiting for Adam to finish the frame so that we can finalize the motor setup.
Future Work:

Hopefully the switch components I ordered from OKW will come in this week. Then I can begin constructing the squish switch and touch switch. When Adam finishes the frame, he and I will determine optimal motor location, where the linkage bar should attach and how long it should be, and what diameter the cam should have.

39 Determine Optimal Linkage Bar Attachment Point 2 days Mon 2/13/06 Tue 2/14/06
40 Determine Optimal Motor Location 2 days Mon 2/13/06 Tue 2/14/06
41 Determine Optimal Cam Size 6 days? Sun 2/26/06 Fri 3/3/06
42 Determine Linkage Bar Length 6 days? Sun 2/26/06 Fri 3/3/06

73 Design User Control Tower 15 days Fri 3/24/06 Fri 4/7/06
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Project Review:

This week I ordered parts to make switches, which is a task designated for the last week in March. While we are a little behind because the 80/20 extrusions took a few more days than hoped for to arrive, tasks ahead of the timeline are being completed while Adam finishes the frame. Tom is making plenty of headway with the speaker mechanism and the control tower design. The chair is coming together nicely, if rather erratically according to the timeline.

Hours Worked: This week I worked for about 8 hours.