Easelectric
Group #4

Weekly Report
Week #10
April 7, 2006
Adam Ross
Work Completed

At 5am on Friday April 7th Jon and I finished up the wiring on the easel and the project is complete. Hours were spent drilling holes, troubleshooting stripped threads on the motor coupler, securing the motor and its enclosure, and utilizing the wonders of self-tapping screws. Earlier in the week I also had to construct a new enclosure for the motor to fit the new design with the shaft coupler. This was constructed out of aluminum sheet metal, and was constructed using hand shears and a sheet metal brake. The two edges of opposite sides were braked inwards to form a lap joint with the adjoining sides. The adjoining sides were then riveted at the lap joint to form a solid box. The final dimensions of the new enclosure measured 3.25x3.25x4.875”. The lid that was constructed earlier was re-shaped to fit the new enclosure and was then fastened to the screw drive enclosure via self tapping screws.

Future Work

That’s all she wrote for the fabrication and design aspect of the easel. All that’s remaining for us is to clean it up and paint it for its final presentation. By next Friday the user’s manual and final report must be completed.

Project Review

The easel was finally completed at 5am on the final day of fabrication, and we are all proud to see easelectric in all of its completed and working glory. The whole process
went very smoothly and, fortunately, with very few snags. It’s been a pleasure working with my group and I feel that we have worked very well together.

**Hours Worked**

In-Lab: 20 hours

Out of lab design: 3 hours

Misc. out of lab time: 2 hours

Paperwork: 2 hours

*Total: 27 hours*