

Aurora College A

Grass Kart Log

- 12/2/2010 - Spent the first part of the morning doing tours around the workshops at S.I.T. Discussed and made plans for the karts to be made, and choose teams. Came to the decision that the theme for the kart would be based on 69' Mustang. Printed off pictures and begun drawing designs for the kart.
- 19/2/2010 - Watched a safety video until smoko. After smoko had a run down on how to operate gas welders. Half way through, went to the workshop and got to practise on the gas welders. Had lunch. After lunch we changed workshops, and had a go with the Mig Welders.
- 26/2/2010 – Watched a hand tools safety video until smoko. After smoko we got briefed on what we were supposed to do when making our drill gauges. Begun work on our drill gauges. Had lunch. After lunch continued with the drill gauges. Cleaned up workshop. Home time.
- 12/3/2010 – Begun work on the making of the mainframe in the morning. Fabricated the two main core bars that rest on the bottom that eventually everything will connect to. Bent them into shape. Had smoko. After smoko begun work on the support bars in-between, got them all welded on. Made a mistake with the measurements so we had to take them off and fix them up. Had lunch. After lunch we re-scalloped the support bars in-between and re welded them into place. Cleaned up the workshop. Went home.
- 19/3/2010 – Begun work on heating and bending the correct angles for the front wheel mounts, spent most of the morning on that until smoko. After smoko came back and finished off bending the wheel mounts. Begun measuring and cutting support bars for the frame. Discussed options for seat and motor. Cleaned up workshop. Home time.
- 26/3/2010 – Begun work on the rest of the mainframe supports and welded them on. Had smoko. Discussed options for the push bar, decided on a design that would go with the theme. Got the steel bar and marked it out. Had lunch. Cut push bar to size, and did the first few bends. Tidied up the kart. Cleaned the workshop. Home time.
- 2/4/2010 – Finished putting bends on the push bar, scalloped it. Smoko. Discussed the best way to mount the engine and decided on an idea that worked. Had lunch. Found steel plate for the engine mount, marked it out and cut it on the guillotine. Filed it down, and tac'd it onto the frame. Cleaned workshop. Home.
- 23/4/2010 – Welded the push bar fully to the frame, filed down the welds. Started work on the seat mounts. Smoko. Continued with filing and seat mounts. Lunch. After bending and grinding the seat mounts, welded the nuts inside them, and welded them onto the frame. Cleaned workshop. Home.
- 30/4/2010 – Cleaned up the bottom seat mounts. Got to work on the support bars between the push bar and back of seat. Smoko. Marked out length and cut the support bar, made a plate to be welded onto the support bar so the back of the seat could be mounted properly. Lunch. Continued work on support bar/plate. Cleaned workshop. Home
- 7/5/2010 – Finished off support bar and plate, welded them onto the frame. Smoko. Cleaned them up. Had seat fully mounted. Begun work on the petrol tank stand as we decided to have it separate from

the engine. Lunch. Fabricated plate and stand for engine. Worked on the front wheel mounts. Gone one done. Cleaned workshop. Home.

14/5/2010 – Worked on other front wheel mounts. Smoko. Stripped the kart apart once all wheels were fully mounted and finished. Begun welding every joint on the kart. Lunch. Carried on welding. Discussed options for the brake calliper location and begun marking out holes for the engine to be bolted on. Cleaned the workshop. Home.

21/5/2010 – Drilled out the holes for the engine. Smoko. Finished drilling the holes then started work on the axel mounts. Took the old axel mounts of the o9 kart and modified them. Lunch. Welded the axel mounts on. Filed them down. Cleaned workshop. Home.

28/5/2010 - Had the engine, and petrol tank fully mounted along with the axel. Begun work on the steering arms. Smoko. Cut out the two steering arms and welded bolts into each end. Lunch Started work on the pedals. Cleaned the workshop. Home.

4/6/2010 – Finished off the steering columns by connecting them to the front wheel mounts, and carried on with the pedals. Smoko. Finished the pedal, and begun work on the pedal mounts. Lunch. Carried on with the pedal mounts, and started work on the body. Cleaned workshop. Home

11/6/2010 – Finished off the pedal mounts, and mounted them onto the frame. Smoko. Carried on with bending the wheel arches for the body out of round bar. Lunch. Carried on with the wheel arches. Managed to complete two. Cleaned workshop. Home.

18/6/2010 – Carried on with working on the wheel arches. Smoko. Got the other two done. Lunch. Begun work on bending the main frame for the body. Lunch. Managed to complete one side, and welded it to two of the wheel arches. Cleaned workshop. Home

25/6/2010 – Begun work on the opposite side of the mainframe for the body. Smoko. Carried on with the body. Lunch. Eventually got it done. Cleaned the workshop. Home.

2/7/2010 – Welded the opposite side of the body's mainframe to the wheel arches, and begun work on the back end of the frame. Smoko. Carried on with the back and almost got it completed. Lunch. Begun work on the front of the mainframe. Cleaned up workshop. Home.

23/7/2010 – Completed the back end of the mainframe and welded it to the sides. Smoko. Finished off the front end, and managed to get it fully welded. Lunch. Finished up all the welds on the body. Cleaned workshop. Home.

30/7/2010 – Begun cleaning up the welds on the body. Smoko. Started work on the sheet metal to cover the mainframe. Lunch. Got one side panel cut out. Cleaned workshop. Home.

6/8/2010 – Got the first side of the sheet metal finished, cut out and cleaned up. Smoko. Begun work on the opposite sides sheet metal. Lunch. Carried on with the sheet metal on the side, go it finished. Cleaned workshop. Home.

13/8/2010 – Pop riveted the sheet metal onto the main frame. Smoko. Finished pop riveting, and took everything off the kart to clean up welds. Lunch. Carried on cleaning up imperfections on the kart.

13/8/2010 – Begun work on the back and front ends of the sheet metal. Smoko. Managed to get the back done. Lunch. Finished off the front part of the body and begun cleaning up welds on the kart. Cleaned workshop. Home.

20/8/2010 – Put everything back on the kart. Smoko. Finished putting the kart back together. Approached southern insulation about sponsoring us for powder coat. Lunch. Took the rest of the day off.

27/8/2010 – Begun running cables for the accelerator and brakes. Smoko. Got the Brakes done. Lunch. Had to wait for parts to finish off the accelerator cable. Cleaned the workshop. Home.

3/9/2010 – Had most of the things done on the kart, so went around cleaning up the body. Smoko. Carried on with cleaning until Lunch and went home.

17/9/2010 – Got the final bits on the kart tuned and took it for a spin out in the car park at S.I.T. Took the karts down to Southern Insulation to be powder coated.

24/9/2010 – Got the kart back from paint. Brought it back to the workshop and got the wheels, seat, axel and engine mounted. Home as it was only an hours worth of work in the day.

12/10/2010 – Worked on the presentation. Smoko. Made a back bonnet for the engine bay. Worked on the presentation for the rest of the day.

14/10/2010 – Painted the back bonnet. Re aligned the brakes, and started cutting out mud guards. Smoko. Finished off the mud flaps. Put the body on the kart, and did some fine tuning on the smoothness of it folding back e.g. cutting and moving the bolts. Went down to pick up the licence plate stickers which were sponsored. Lunch. Brought karts back to school, and gave them a run (not on the field!) just get the engine running in the workshop. Home.

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