

Aranui Grass Kart Team 2010 Team B



- Harley
- Jesse
- Dallas



Inspiration

We got our inspiration for our side intrusion bars from last years kart, we changed it a bit to fix the design faults and its going very well with the process of development.



We used this image to develop a chassis of our own using using the drawing we created a life size drawing on a sheet of MDF and fabricated a chassis from the drawing

What we have enjoyed the most so far

What have we enjoyed the most so far????

All the parts arriving along with the motor was an enjoyment in itself. Opening the boxes of various “shiny” things and Working out what went wear. But knowing that the assortment of parts scattered around the bench was worth just over \$1,500 was awesome.

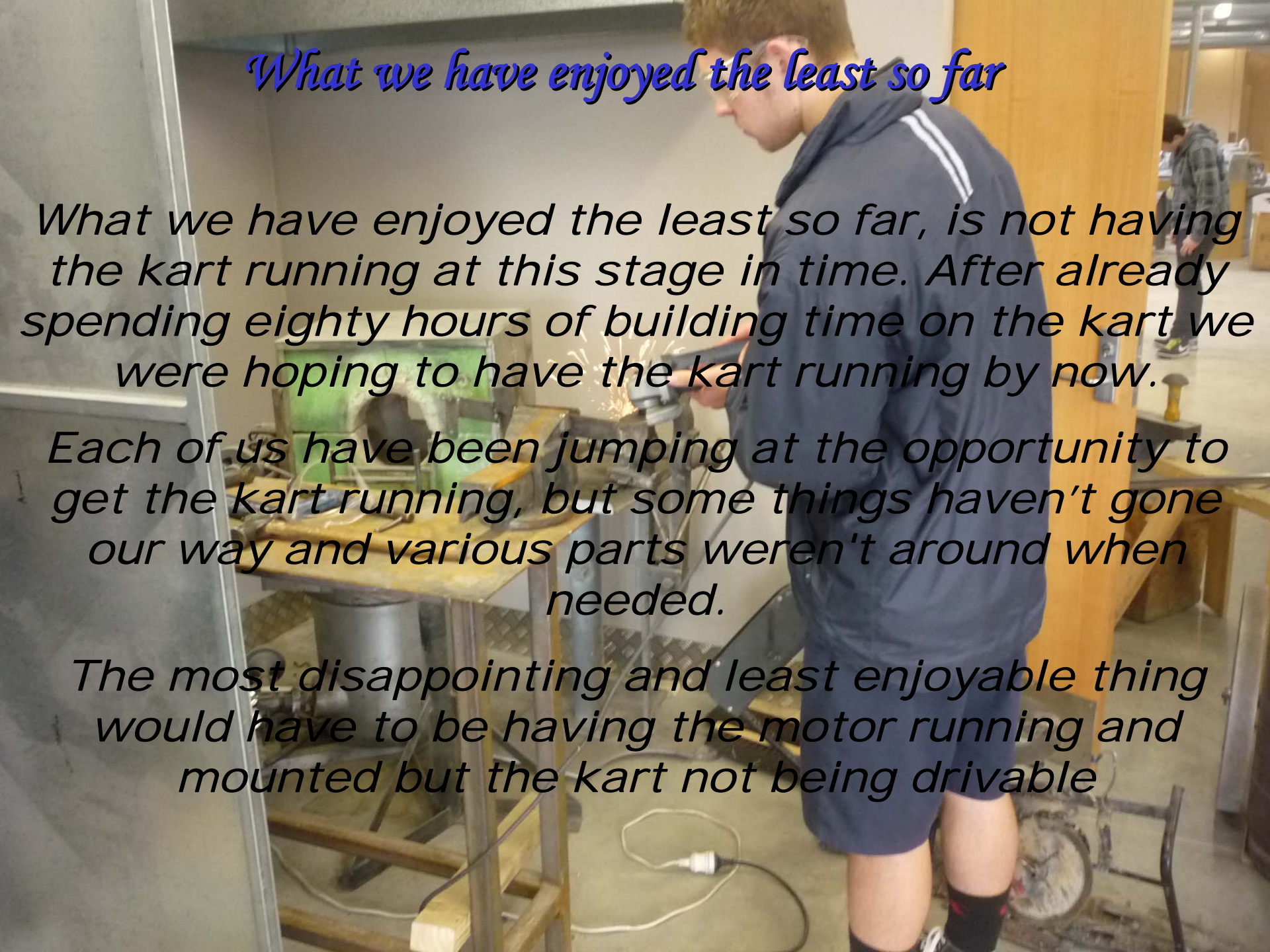
Overall the most enjoyable thing so far would have to be designing, having draw up detailed sketches and ideas, then putting those ideas to work and actually building the kart. But seeing how much the kart developed at the end of each week was enjoyable. Going from an idea on a piece of MDF, to six chassis bars being bent, measured, tacked, and welded together, to a full rolling chassis

What we have enjoyed the least so far

What we have enjoyed the least so far, is not having the kart running at this stage in time. After already spending eighty hours of building time on the kart we were hoping to have the kart running by now.

Each of us have been jumping at the opportunity to get the kart running, but some things haven't gone our way and various parts weren't around when needed.

The most disappointing and least enjoyable thing would have to be having the motor running and mounted but the kart not being drivable



What we have learned so far

What we have learned so far is to plan things out before doing them, instead of going straight ahead and manufacturing an idea without even planning it out. We have learnt to measure twice a cut once saving wastage on steel.

Some members of the team have learnt to turn the gas off on the welder or the oxygen on the gas torch. After having to get the bottle refilled because of the lines being left on.

One particular member of the team 'brook', Has learnt not only that before tyres can be pumped up, that the rims need to be bolted together as well. On the same occasion he also learnt that the max pressure for a tube means 'MAX PRESURE' and exceeding the max pressure will cause the tube to explode.

We also learnt that engineering can't be rushed. At the start of the build, when we were in the process of fabricating the chassis, we rushed the process, causing minor mistakes. E.g. a twisted chassis which was repairable and also a chassis that wasn't square. From then on we thought twice about what ever we did.

What we would do differently

What we would do differently, is order every part needed that we cannot manufacture ourselves. Instead of ordering each part as we need it e.g.. nuts and bolts, steering column, stub axles etc. because sitting around waiting for parts to arrive is aggravating and puts us behind in time.

Also next time, instead of welding it there when we think its correct, everything will be tacked until it is perfect

THANK YOU