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 04-23-2017, 07:04 AM

[elavir](#)

 **Mondial racer dustbin fairing**

#1

Join Date: Nov 2014

Location: Holland

Posts: 89

A friend of mine asked me if I could make an aluminum dustbin fairing. He races with a Mondial which had a dustbin fairing of fiberglass. And he would like it if the front of the fairing was a bit higher.



That's a pretty big thing to make and having not much experience I decided to give it a try because he wanted it to look like a fairing made in the old days(which didn't have such a smooth finish). Fortunately he had a sort of buck I could use and made the "raise" of the front part.









I decided to break the project down into three parts:

- the nose that has round shapes (hammering, wheeling)
- the part after the nose(which could be made by bending only)
- the two rear ends which must have a wired edge

The site came in handy with the information to make a tool for making the wired edge. Using a tubing I bended the plate.

















Then I made a FSP of the front part and cut out the nose part.











Using the FSP I cut out the part at the back of the nose and bended it over a propane bottle which went quite well.









Now for the nose parts. They had to be wheeled. I already made a wheeling machine (which could stand on a Workmate) but had no experience with it. So with some scrap material I practiced and got the hang of it, using a hammer and stump, wooden hammer and a sandbag. After a while I managed to make the two nose parts but this is a job which requires a lot of patience. Sloooow going.













After that, the two parts had to be welded and I decided to gasweld the parts . On one of the pictures you can see that the left part is a bit higher and I could bring that a bit down using a little sand sack and a flipper (also sloooow going)









Then I welded the nose- and front section together. The junction between the two parts wasn't level and to straighten that I made a "handwheel" which I could use with the anvils of the english wheel. I did that on a Trespa plate. (high pressure laminate plate)

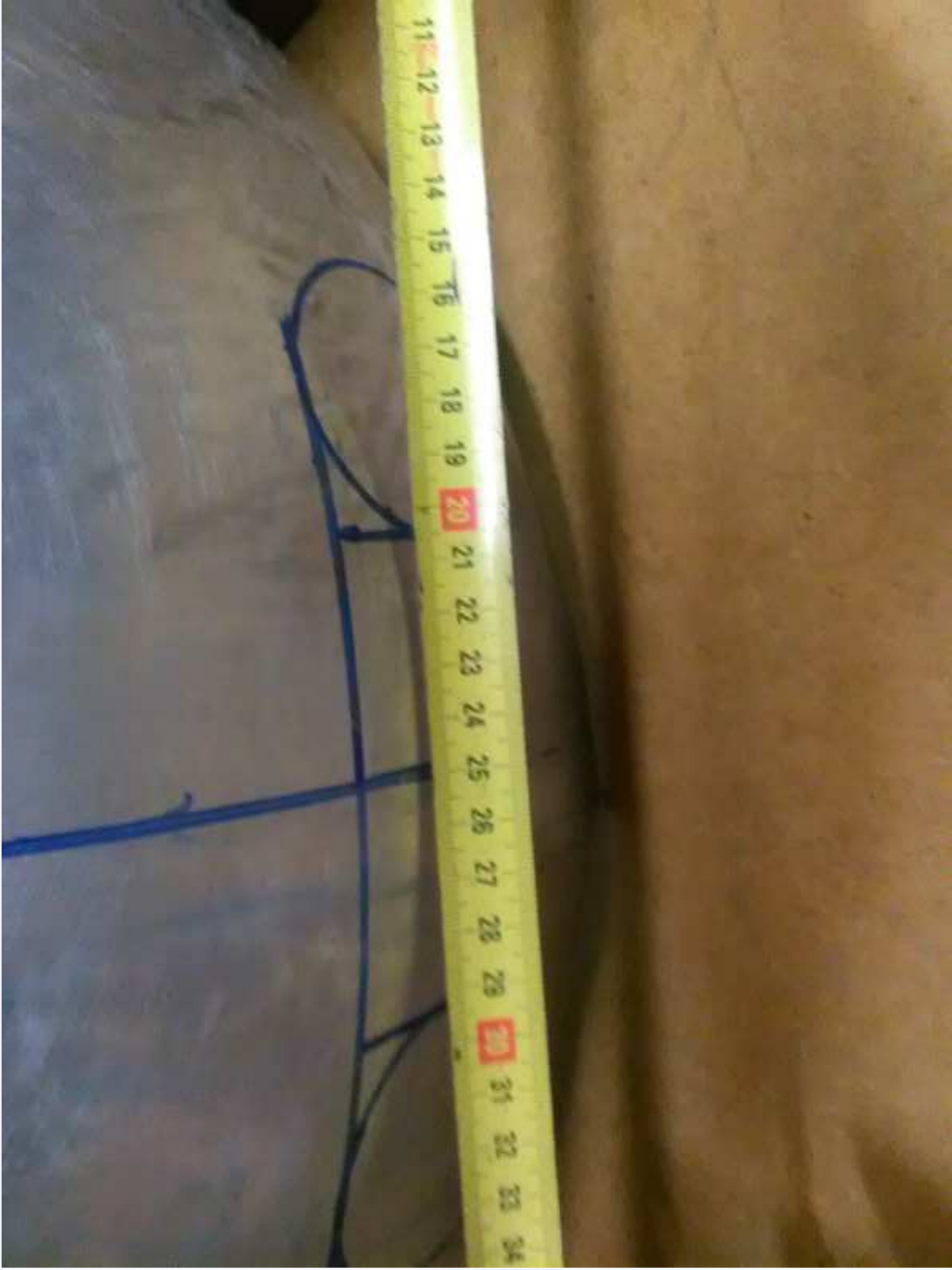






Locating the right spot for the air intakes.





Attaching the front and back with 4 little bolts and fitting on the bike.









Making the edge for the windscreen.



I found it difficult making the air intakes because they are "standing in an angle" on the fairing. Tried some things but finally made a funnel like shape from the holes in the fairing and the tubing(I made that rolling round a tube and welded it because it had to fit in an air hose fixed on the air intakes which could be aimed at the brake and the cylinder) and welded them on the fairing.











Welding the front and the rear parts together.

The first attempt didn't go well because of its weight; the rear part dropped a little while welding and the two parts weren't in level. I fixed this by sawing in the weld seam from beneath until I was in the straight end so I could bend the two parts straight and welded it again.























Sanded



Ready for the paint job but I didn't like the finish of the weld seams, you could still see them, were to uneven. With a slapper and dolly I straightened it out until it was nice.







Painted and fitted on the bike.

























04-23-2017, 08:11 AM

#2



[bigdog91ab](#)

Join Date: Aug 2006
Location: maryland
Posts: 42



Thanks for posting nice documentation and pics if you haven't used wheel much you fooled me grate job looks awesome on bike



04-23-2017, 09:37 AM

#3



[Rob Banman](#)

Join Date: Mar 2010
Location: Niverville,MB Canada
Posts: 75



You did a nice job on that. What's your next project?
Rob



04-23-2017, 11:31 AM

#4



[dwmh](#)

Join Date: Jul 2014
Location: Oxford UK
Posts: 48



Nice job Richard, the finished bike looks great. Much better than the fibreglass one.



04-23-2017, 01:06 PM

#5



Join Date: Nov 2014
Location: Holland
Posts: 89

[elavir](#)



bigdog91ab, Rob and dwmh, glad you liked it.

Cheers Richard.



04-23-2017, 01:32 PM

#6



Join Date: Mar 2004
Location: Brisbane Australia
Posts: 283

[steve.murphy](#)



Excellent job and very good tutorial tto!



04-23-2017, 01:32 PM

#Z



Join Date: Aug 2012
Location: Denmark
Posts: 222

[Great Dane](#)



Richard, very interesting to see how you did this job. I think it went out just perfect. I am sure the owner of the bike is happy with the result 😊

Peder



jlRussell4
Moderator

Join Date: Aug 2003
Location: Mt. Dora, FL.
Posts: 4,367

You did a great job on the fairing. Beautiful welds too. Thanks for documenting the project for us.



elavir

Join Date: Nov 2014
Location: Holland
Posts: 89

Steve, Peder and Jim, thanks for your kind words.

Cheers Richard.



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