
Subject: Badly glued Padplanes

Posted by [Clemens Adler](#) on Mon, 16 Aug 2004 14:08:48 GMT

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Dear All,

The first padplanes we glued (by rolling glue onto the honeycomb) had (as I reported earlier at several occasions) the problem, that there are areas where the padplane is hanging in the air. I just looked at the second padplane we glued together with Oleg and Sascha last november, and measured the effect again.

The areas which are not glued are ~50 micron higher than the surrounding area, and they can be pressed down by ~100 micron, so they would be 50 micron below the surrounding level.

Those values, we agreed at the time, are within our limits. However, I think that slight overpressure could easily deform the padplane in those places after looking at them again. I think we could fix it by drilling holes into the padplane and inserting glue. At least to fix the loose areas at some more points.

Now my question I would like to pose for discussion:

We would have to drill holes of ~1,5-1,8mm diameter into the padplane. This I would do at the end of a pad where 3 pads meet (to minimize the amount of pad space taken away).

I think a (small) reduction of pad area is more desirable than a pressure dependant gain. But I would like to hear your opinion.

cheers,
Clemens

Subject: Re: Badly glued Padplanes

Posted by [Chilo Garabatos](#) on Mon, 16 Aug 2004 15:07:11 GMT

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Hi, Clemens,

Plus or minus 50 microns in the position of the padplane results in +- 4% gain variation. Given the foreseen stability of the overpressure in the chamber I would suggest not going through the trouble of drilling, filling, sanding down etc.

Regards,
Chilo

Subject: Re: Badly glued Padplanes

Posted by [Harald Appelshaeuser](#) on Fri, 03 Sep 2004 08:37:07 GMT

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I agree with Chilo. On the other hand, couldnt you drill through the sandwich from other side and insert some glue from there?

Harry
