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Subject: correction filter for Fostex fe206e in a Jeriko  
Posted by [Kane](#) on Wed, 05 Jan 2005 10:38:59 GMT  
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I am building the Jeriko but with the 206 instead of 208. Do anyone think i need a correction filter for this?

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Subject: Re: correction filter for Fostex fe206e in a Jeriko  
Posted by [akhilesh](#) on Wed, 05 Jan 2005 20:35:42 GMT  
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Hi Kane, Does the speaker have a correction filter with the 208? What kind of crossover or network does it use? thanx-akhilesh

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Subject: Re: correction filter for Fostex fe206e in a Jeriko  
Posted by [Kane](#) on Thu, 06 Jan 2005 07:38:23 GMT  
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Hi Akhilesh! I'm building the Jeriko enclosure right now and have no crossover netw/filter yet. I was planning to use the original 208 Sigma driver but i learned it was out of production. Having noticed the 206's are getting so much good critic in the different forums (some are not satisfied with the new 208?) i decided to go for the 206 instead. I heard about 2 similar project and was recommended to do so. The datasheets on the 206 shows a really smooth impedance curve and the frequency seems ok too? i live way up north (arctic) and i have to order the different components for a filter and will try to get it right so i dont spend a lot money on shipping. I use a small integrated tube amplifier. Thanks! Kane

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Subject: Re: correction filter for Fostex fe206e in a Jeriko  
Posted by [akhilesh](#) on Thu, 06 Jan 2005 15:35:00 GMT  
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Hi Kane, You are right about the 206 curves. I'd run it clean first to see how the horn works, and then try a notch filter (+3db below 2000 Hz). IF that does not work, then try a notch filter at 200hz with a 3 db boost below that. let us know how it works out!-akhilesh

Subject: Re: correction filter for Fostex fe206e in a Jeriko

Posted by [Kane](#) on Fri, 07 Jan 2005 09:05:26 GMT

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Thanks Akhilesh!! I'll try that. Received the drivers today and they feel/look great. Because of busy days on work I can't start with the horns for about 2 weeks. I will let you know how it goes. Later! Kane

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Subject: Re: correction filter for Fostex fe206e in a Jeriko

Posted by [akhilesh](#) on Fri, 07 Jan 2005 14:04:40 GMT

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Hi Kane, Please do let us know, since this is a project that will interest many of us! If you can take pics of the horns as they are built, that would be very informative as well. BTW, you may want to later experiment with a cheap supertweeter (like a dome tweeter by Vifa, say around 93-95) crossed over at 12-15 kHz, with no voltage dropper. You may find this adds a lot of air and increases the soundstage. I know it did so in my home brews. Thank you - akhilesh-akhilesh

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Subject: Re: correction filter for Fostex fe206e in a Jeriko

Posted by [Kane](#) on Fri, 07 Jan 2005 15:49:37 GMT

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Hi there! I will take pics. The supertweeter concept I do like. Do you have any tips regarding enclosures? I looked up some tweeters from Vifa at:

<http://www.mamut.com/controls/shop/shops/1/standardplist.asp?wwwalias=dynabel&subgid=1&gid=10> Any suggestions? The SPL on the affordable ones is not too effective but there may be a SPL boost in an enclosure? I do not have so much knowledge about these things. I have only built some bass reflex enclosures and some crossover upgrading before. This Jericho plan I will put together (with some help from my father, who is a furniture builder by profession) as close to the original plan as possible. I will not try to upgrade its original volume/length and I use the 19mm MDF as the original. But I will add double sides and back and fill the empty spaces with sand + experimenting with stuffing. I'm not sure if the 19mm front baffle is thick enough? Do you have an opinion on that? Can I double the front too without doing something wrong to the performance? Maybe make the inner plate a bit wider and carve the circle edge. Well, it's really interesting and it's easy to get stoked over the concept of speaker building. Later! Kane

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Subject: Re: correction filter for Fostex fe206e in a Jeriko

Posted by [Bill Wassilak](#) on Fri, 07 Jan 2005 16:22:42 GMT

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Your 19mm baffle should be fine, you can double the baffle like you've said just as long as it doesn't interfere with the back wave feeding the horn but I don't see where you need to, it'll just add more weight(lb's) to the speaker. Hope you got a forklift to move the things after your done there going to weigh a ton with double sides, back and sand filling.Bill W.

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**Subject: Tweeter**

Posted by [akhilesh](#) on Sat, 08 Jan 2005 16:54:00 GMT

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Hi Kane,I would suggest you look at [www.parts-express.com](http://www.parts-express.com), and look for the vifa dome tweeters in the \$25 range. They do have one at 95 db, that is very good. It is sealed back, so you can put it anywhere. It's good till 30 KHZ. I have used that one (the part number escapes me but it costs \$25). Good luck, and keep us posted. thanx-akhilesh

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**Subject: Re: correction filter for Fostex fe206e in a Jeriko**

Posted by [akhilesh](#) on Sat, 08 Jan 2005 19:07:27 GMT

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Hi KAne,Look for tweeters on [www.parts-express.com](http://www.parts-express.com). They have Vifa dome tweeters. One is \$25-\$27, with eff of 95 db and freq ext till 30Khz. I have used that successfully. It has a sealed back, so no cabinet needed. thanx and keep us posted! -akhilesh

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**Subject: Re: correction filter for Fostex fe206e in a Jeriko**

Posted by [Kane](#) on Sun, 09 Jan 2005 14:43:30 GMT

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Hi BillYour right, It is gonna be a heavy one for shure, but the sand will be usefull to prevent cabinet resonating(if there will be some?)and doubling the back/side walls i think would be better than not doing so(no "swinging" panels when the amplifier are firing at all 8 sylinders!). The weight don't worry me because im not gonna ship ´m with "Fedex" and the volume makes it hard to lift alone even with sand or not."It's better to carry a gun and not have to use it than not carry one and really need it"Kane

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Subject: FE206E in a Jericho

Posted by [Kane](#) on Wed, 23 Feb 2005 11:27:59 GMT

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Well well; finally i got the horns ready and started playing on them this morning. I miscalculated the need of mdf and had to wait almost a month for the last one to finish the side walls. Very excited i hooked it up to the cd player(Atoll cd100) and my poor chinese tubeamp(yarland) and the first thing that hit me was an extreme response on the volume control!!! The sound was extremely transparent and airy. The bass was fast and homogeneous, not too poor as i was afraid of (starting soon on a horn subproject). It is running now at home as i'm writing this (im at work ) and i'm looking forward to hear if there are any changes due to the break in. One thing that i didn't like was a bit hard and loud high frequency. It made my ears a bit stressed. This i might have to correct with a filter, later if the break in doesn't cure it. Will post some follow ups! Kane

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