
Subject: voight pipe plans for 206 Fostex
Posted by [jim denton](#) on Mon, 09 May 2005 15:14:57 GMT
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I guess the only way I'll satisfy my questions as to how the FE206e's will sound in the Voight pipe design is to build them---I have a good plan in a 6" driver but could use some spec's for the 8 inch--I have talked to Brad (cabinet builder) about using some solid hardwoods over plys---we'll about that---anyone seen a 8" plan?? Jim

Subject: Re: voight pipe plans for 206 Fostex
Posted by [FredT](#) on Mon, 09 May 2005 16:03:56 GMT
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The only plan I have seen is at the link below. It seems to be about the same size as your current pipes. It uses the 207 instead of the 206. I have been considering building another set of Voigt pipes for my Audio Nirvana 8" drivers, whose T/S parameters are close to the 206. I will make them in a slightly larger cross section, dictated by the 11-1/4" width of the mdf boards I get from my lumber source. But hardwood would look really nice.

Voigt Pipes for 8" Fostex Drivers

Subject: Re: voight pipe plans for 206 Fostex
Posted by [roncla](#) on Mon, 09 May 2005 21:54:45 GMT
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Well there is a major difference in Qts. Some added series resistance will help (4-6 ohms). Be sure to use at least 10 watt non inductive resistors. I had my original 206es in a break in, folded TQWT and it took the added series resistance to get an acceptable bass response.ron

Subject: Good Thing to Know
Posted by [FredT](#) on Mon, 09 May 2005 23:03:52 GMT
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If you must use series resistance I wonder if you could parallel the resistor with a 1.5mH inductor to create a baffle step compensation network?

Subject: Re: Good Thing to Know
Posted by [Bob Brines](#) on Tue, 10 May 2005 01:50:10 GMT
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Sorry, Fred. That won't work. The series resistor is just to raise the effective Qts of the driver up to the level needed for a Voigt Pipe. The BSC step filter comes after that. My personal dislike for the Voigt pipe is well known, particularly the Lowther Club of Norway TQWT that one of the links is really pointing at. But if you must, use the FE207E rather than the FE206E. You will have a much better chance as a decent sound. Bob

Subject: Opinions on Voigt Pipe
Posted by [GarMan](#) on Tue, 10 May 2005 17:51:20 GMT
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Hi Bob, I'm interested in hearing your opinion of Voigt Pipes. Do you have a link to it, or can you provide a 60 sec tour? thanks, gcl.

Subject: Re: Opinions on Voigt Pipe
Posted by [Bob Brines](#) on Tue, 10 May 2005 19:10:39 GMT
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This link is what I discovered about the classic Voigt pipe, which BTW, is not what Paul Voigt had intended. But that's another story. GM points out, quite correctly, that the zero So pipe does have a use with certain drivers, but in general you must give up bass extension for mid-bass smoothness. The classic VP with extension below Fs is fatally flawed. Bob
Voigt Pipes

Subject: Re: voigt pipe plans for 206 Fostex
Posted by [zobsky](#) on Tue, 10 May 2005 19:18:30 GMT
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if you're having a cabinet builder build it, why not just go for a back horn. Ron's design seems to be liked. Another interesting post I came across today on AA using the 206 E (though in a 2 way) at <http://www.audioasylum.com/forums/hug/messages/88224.html> cheers, nice meeting you a few weeks ago at GPAF.

Subject: Voigt Pipe Alternative for FE-206
Posted by [FredT](#) on Wed, 11 May 2005 00:43:19 GMT
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The only advantage to a voigt pipe appears to be its simplicity - it's very easy to build one. In contrast, all the back loaded horn enclosure plans I have seen for the FE-166 and 206 would require some woodworking skills and seem to be very labor intensive. I was wondering if there's a simpler plan, possibly like the BK-16 folded horn that Madisound offers as a flat pack kit for \$98?
BK-16 Horn Enclosure

Subject: Re: voight pipe plans for 206 Fostex
Posted by [jim denton](#) on Wed, 11 May 2005 13:25:52 GMT
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Can you shoot me an de-mail with rons back loaded horn plans---I'm not up on this design I guess
Jim

Subject: Re: Opinions on Voigt Pipe
Posted by [roncla](#) on Fri, 13 May 2005 23:51:50 GMT
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Dont believe i would ever make a pipe with an Fc below .707 Fs. And that is streaching it to the limit. I have done it in the past and lost a great amount of resolution in the LF response. Equal to , or better yet, 1.4 x Fs sounds better.ron

Subject: Re: voight pipe plans for 206 Fostex
Posted by [james_b](#) on Sun, 26 Jun 2005 14:01:22 GMT
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I have a pair of the Decware modified FE206's in a pair of Voigt pipes I built a several months ago based on the Lowther club plans and I think they sound great. I used 3/4" maple ply for the front, sides and base and select pine for the back with the drivers mounted on the vertical and a small angled piece added in the back at about 45 degrees towards the port, and some felt lining the bottom and angled piece. I really have been very satisfied with them. I have the K502 kit tube amp and recently added Voltseconds CCS mods and then triode strapped it, and the sound is much better in triode mode, it really matches well with the speakers. I also swapped out various speaker wire until I found one that seemed to have better bass. I am tempted to build a set of horns though

just to swap drivers and compare how they sound.
