
Subject: Mounting Woofer

Posted by [SteveBrown](#) on Thu, 10 Nov 2005 22:20:18 GMT

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Well, I've decided to build something bigger than I started out wanting, a 3.5 ft box with a JBL 2226 and JBL horn. As I'm working on the cabinets I'm wondering if I should flush mount the woofers. I'm using 3/4" plywood, but could double up the front baffle if needed. Also, any thoughts on bracing? Thanks!

Subject: Next Question...

Posted by [SteveBrown](#) on Thu, 10 Nov 2005 22:46:09 GMT

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As I plan the layout of the front baffle, I'm worried that there isn't enough room. I've thought to put the horn on top, which is fine with me and allows for easy experimenting down the line. At any rate, the baffle is 17.75 x 26.5, overall box is 1.5" taller and wider. I need to also accomodate two 4" ports. I can cram all this on the front, but wondering if that is the smartest idea. Also, is there a minimum distance from the port to the woofer? If I put the horn on top, how close to it should I try to mount the woofer? Thanks!!

Subject: oops, forgot...

Posted by [SteveBrown](#) on Thu, 10 Nov 2005 22:47:59 GMT

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The horn is a JBL 2370A, which is 6.8" high by 17.5" wide. Woofer is a 2226, 15.25" wide.

Subject: Re: oops, forgot...

Posted by [Wayne Parham](#) on Fri, 11 Nov 2005 14:41:22 GMT

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You can place the port close to the woofer, but try to place it so that midrange reflections aren't directed out the port. Position it so the entrance angle won't allow a straight shot, because that will provide attenuation of the midrange in the port. You can also use absorbent stuffing to help absorb midrange energies inside the chamber. You'll also want to position the port and driver in the cabinet so standing waves don't setup a resonant node, but it sounds like the size of cabinet and port will make this pretty unlikely. That's usually more of a concern when the box is large and/or the port is long.

Subject: Re: oops, forgot...
Posted by [SteveBrown](#) on Fri, 11 Nov 2005 14:58:11 GMT
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Thanks, Wayne!

Subject: Re: oops, forgot...
Posted by [jimbop](#) on Mon, 14 Nov 2005 02:10:46 GMT
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Steve, what driver are you using with the JBL horn?Jim D

Subject: It is the 2426 (nt)
Posted by [SteveBrown](#) on Mon, 14 Nov 2005 10:28:29 GMT
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(nt)

Subject: Re: Mounting Woofer
Posted by [jimbop](#) on Mon, 14 Nov 2005 12:58:40 GMT
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Steve, I'm curious - in your original post you mentioned having used Pi Thermionic 3's but said they had low "WAF" and poor imaging. How do you see this new speaker differing from the Pi 3's? How did you decide on this combination?I am on a similar quest to yours, and have been following your threads with great interest. Also, where are you purchasing your JBL components?Jim Dombrowski

Subject: Re: Mounting Woofer
Posted by [SteveBrown](#) on Mon, 14 Nov 2005 13:37:05 GMT
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Jim, excellent question! I had a chance to listen to a set up at Ron's (spkrman57)house and

thought it was awesome (used JBL 2226 on the bottom and JBL drivers w/Edgar horns on top). The Thermionic 3pi uses Eminance drivers and I'm hoping that the JBLs are part of the answer to a better overall sound. The combo I'm building also has a bit smaller foot print than the old speakers (at about 3.5 ft3). I really like what horns do in terms of dynamics, so trying another horn design, especially with Ron's help, is compelling. And, at the end of the day, if I don't like them for Hi-Fi, I'll use them for home theater. Oh, last, in terms of space, I've been relocated to the basement where space and WAF isn't as big of an issue as it was when I was trying to make something work for the living room... of course that does not mean I have complete freedom (sigh).

Subject: Re: Mounting Woofer
Posted by [Wayne Parham](#) on Mon, 14 Nov 2005 14:54:21 GMT
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I think the biggest difference will come from upgrading the midwoofer. The JBL 2226 is a significantly better (and more expensive) driver. There's a world of difference between the Pro series and the Thermionic series in both price and performance.

Subject: Re: Mounting Woofer
Posted by [SteveBrown](#) on Mon, 14 Nov 2005 16:03:15 GMT
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I'm thinking so too. I know hearing Ron's setup I was impressed with the imaging and smoothness in the response.

Subject: Re: Mounting Woofer
Posted by [jimbop](#) on Tue, 15 Nov 2005 01:52:59 GMT
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Is the JBL 2226 compatible with a 2A3 SET amp?Jim

Subject: Re: Mounting Woofer
Posted by [Wayne Parham](#) on Tue, 15 Nov 2005 06:44:17 GMT
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When pairing the JBL 2226 with a SET amp, it depends a lot on the amp configuration. Now that I think about it, every 2A3 I have heard sounded wonderful with the 2226. I've heard a couple of SET amps that were a bit light in the bass when used with 2226's, but those amps tended to lack bass with most speakers. What amp are you planning to use?

Subject: JBL 2226 compatability with SET amps!
Posted by [spkrman57](#) on Tue, 15 Nov 2005 17:10:17 GMT
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I have used 45/2A3/300B and EL34 SE with my 2226's and find they do a nice job with them. If your needs are for heavy bottom octave bass, you would need a subwoofer even when used with high powered SS. 2226 is -3db down @ 45hz, so great midbass driver!Ron

Subject: Re: Mounting Woofer
Posted by [jimbop](#) on Tue, 15 Nov 2005 20:39:10 GMT
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Are you planning on using a Edgarhorn on top also, or just a typical JBL horn?Jim

Subject: Re: Mounting Woofer - I did this
Posted by [roland](#) on Wed, 16 Nov 2005 08:03:38 GMT
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Hi there,The pic speaks for itself I guess...I had the same issue as you.http://www.neo-fitness.com/misc/pi4_3.jpgGood luckRoland
see pic:)

Subject: Re: Mounting Woofer - I did this
Posted by [SteveBrown](#) on Wed, 16 Nov 2005 11:33:14 GMT
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Thanks for the note. Looks as if you mounted it from the back? I like the look of that from the front, but kind of difficult to remove the driver later, unless you don't glue on the back. How did you

handle that?

Subject: Re: Mounting Woofer

Posted by [GarMan](#) on Wed, 16 Nov 2005 16:24:46 GMT

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Hi Steve, Glad to hear you settled on the JBL's. I know you'll be very happy with them. I have both an Eminence and JBL system at home. As good as the Theatre-3's are, the JBL's are way better. Of course, they cost about 5x as much. Attached are photos of cabinet construction for my JBL 2235's. Hope you'll find them helpful. Front baffle's doubled up with 3/4" and 5/8" MDF. With a rabbet of 1/2" to flush mount the woofer, you still have 7/8" of material to secure the driver.

regards, gcl.

Cabinet Photos

Subject: Re: Mounting Woofer - I did this

Posted by [roland](#) on Fri, 18 Nov 2005 10:40:12 GMT

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hmmm and thanks - not sure I get it but: I glued the ring to the back of the baffle before I put the cabs together. The driver will be mounted with T-nuts / lock-nuts (or whatever you call them ?????) so removing the driver is not an issue later. I hope this helps. Roland

T-nuts

Subject: Nice! me sloppy builder you not:(

Posted by [roland](#) on Fri, 18 Nov 2005 10:42:01 GMT

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Subject: Re: Mounting Woofer

Posted by [spkrman57](#) on Mon, 21 Nov 2005 21:15:50 GMT

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GarMan, Are those the JBL 2380 Flat Bi-radial horns on top of the cabinet? Look sweet! Ron

Subject: They were.

Posted by [GarMan](#) on Wed, 23 Nov 2005 13:42:57 GMT

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But I've since replaced them with my own DIY 2397. Imaging's now less sensitive to sitting position. I also loss the "bite" that I used to get with the 2380A's.

DIY 2397

Subject: Smith horns - Cool!

Posted by [spkrman57](#) on Wed, 23 Nov 2005 20:55:34 GMT

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I have read quite a bit about them on the audioheritage forum (JBL). I have heard good things about them. Ron

Subject: Got the details from Widget

Posted by [GarMan](#) on Wed, 23 Nov 2005 22:13:31 GMT

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and the group of them sold me on the idea to replace the 2380A with the Smiths. Next spring, I'd like to take a crack at the 1" exit version that's been tossed around there. Could be a good match with 2226's.

Subject: Widget

Posted by [spkrman57](#) on Thu, 24 Nov 2005 10:52:27 GMT

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Yes, the Widget is cool dude with lots of ideas, I liked the wood horns he made up also. I would like to try the Smith horns, but with my heavy investment (\$\$\$) in Edgarhorns I would be hard pressed to change up right now. But would like to hear them though! Ron

Subject: Re: Widget

Posted by [GarMan](#) on Thu, 24 Nov 2005 15:50:58 GMT

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If you DIY, investment is minimal. \$60 on material (baltic birch ply) \$100 to \$150 for a pair of throat adaptors. But that's assuming you already have the drivers.
