
Subject: Suggestions for replacement driver for buddies DJ rig

Posted by [pickle](#) on Wed, 01 Dec 2004 21:43:48 GMT

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The probably belongs in the PA forums, but thought I might get quicker response here. My buddy has two big Peavey bass bins. They were equipped with the Peavey Black Widow 18 inch driver model 1801. I have discovered that both of the drivers are now inop. As a side note, his WHOLE trailer of DJ gear was stolen at night 3 weeks ago. He even had a regular good hitch lock on it! Anyway, since these bins weren't working, they were in the garage. I took the drivers out, and yes, they don't work. Now, since he has to start replacing gear anyway, I'm suggesting using the existing cabinets and putting better, beefier drivers in. I finally found the PDF for the cabinet; turns out it really is less like a sub and more just a big woofer. The cabinet tuning is 42hz BR. It is down something like -3db at 42 hz and -10db at 35hz. I was thinking of suggesting a PE 500 or 1000 watt sub plate amp, and a different driver. My question is, what driver would you recommend for this box? Perhaps one that is capable of better VLF performance, even though the box tuning is high? I think I'd like to recommend something under \$250 per driver. I don't think I want to mess around with having him change the box tuning, although perhaps we could add some more fill and effectively lower it. Anything in PE's 18 woofer selection that looks like a decent performing choice to you guys??Or perhaps, even though the box is tuned to 42, with the right driver and some possible EQ boost from the plate amp, we can get it a bit deeper??ThanksMBB
Specs for the enclosure are here

Subject: Re: Suggestions for replacement driver for buddies DJ rig

Posted by [GraemeG](#) on Wed, 01 Dec 2004 22:29:03 GMT

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Bit of a look and quick modelling reveals : The B&C 18PZB46 (PE 294-674) looks a good candidate due to its Xmax figure, although just outside the price range. The box WILL have to be retuned as tuning is mainly a function of the port. The size of the Peavey box extends the low end of the B&C somewhat. From what I can tell with the photo of the Peavey, you can cut the port out to the bottom of the cabinet (keep same port width) and box it in with timber to a depth of 276mm (10.9"). This opens the port to minimise port noise associated with higher power and retunes it to around 38Hz. The response shows -3dB around 34Hz, with full power available, and a small hump at 40Hz. Should kick. CheersGraeme

Subject: Thanks. Anyone had any experience with these B&C drivers?

Posted by [pickle](#) on Wed, 01 Dec 2004 22:38:31 GMT

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I don't know anything about them.MBB

Subject: Also, where did you see
Posted by [pickle](#) on Wed, 01 Dec 2004 22:41:56 GMT
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the measurements for the current port? I didn't see them in the pdf

Subject: JBL 2241
Posted by [Wayne Parham](#) on Thu, 02 Dec 2004 00:51:28 GMT
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How 'bout some JBL 2241's? They'll do pretty well in a 10ft3 box. Best if tuned to 30Hz or 35Hz but 42Hz isn't too bad. If tuned to 35Hz, it will be flat down to f3 of 35Hz and f10 of 28Hz. If no cabinet changes are made, the existing 42Hz tuning will give a small 2dB rise at 50Hz.

Subject: Re: Also, where did you see
Posted by [GraemeG](#) on Thu, 02 Dec 2004 00:57:01 GMT
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I just guessed from the photo that it looks to be around 12" wide and 4" high, and in most Peaveys the vent depth is just the baffle thickness. Whilst I have not used the B&C drivers myself, they have a good reputations and are used by a number of manufacturers such as Yorkville etc. Should be a good driver. Cheers Graeme

Subject: Eminence Magnum 18HO
Posted by [Wayne Parham](#) on Thu, 02 Dec 2004 01:04:38 GMT
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An Eminence Magnum 18HO will work in that enclosure. You can purchase them new for about the same price as a used JBL 2241. It has a shorting ring like the JBLs, so it's a nice driver. Like the 2241, it would be flatter if the cabinet were tuned a little differently, but as it is - 10ft3 at 42Hz, it will have about the same response curve as the 2241 in that box. Flat down to 40Hz or so with a slight 2dB rise at 50Hz. I'd say this is a pretty good choice.

Subject: Re: Port

Posted by [GraemeG](#) on Thu, 02 Dec 2004 01:55:47 GMT

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Another good choice. With any of these drivers, a substantial increase in box power most likely will give rise to air speed noise in the standard Peavey port, so opening up this port to slow air speed will be required. Of course, this then means the depth of the port has to be increased for tuning, and may as well tune it to where necessary at that time. Cheers Graeme

Subject: Re: Port

Posted by [Wayne Parham](#) on Thu, 02 Dec 2004 02:07:37 GMT

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Might be good to change the port and reduce the Helmholtz frequency slightly too. But I think each of the drivers we've mentioned on this thread will offer improved performance even in the existing box without changes.

Subject: Re: JBL 2241

Posted by [mikebake](#) on Thu, 02 Dec 2004 02:47:44 GMT

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Probably too much \$ for him; personally I prefer the 2242H.

Subject: Re: JBL 2241

Posted by [Wayne Parham](#) on Thu, 02 Dec 2004 06:43:20 GMT

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Yeah, I knew when you mentioned a target of \$250.00 per driver, the 2241 would be out of the question if purchased new. But I think you can find 'em for that kind of money in good used condition. The 2242 is even more money, and really kind of likes smaller boxes. If a 2242 is used in a 10ft3 box, it is best tuned for 25Hz which gives an EBS alignment with a -6dB shelf.
