Subject: HELP on mating Pioneer B20FU20-51FW with Motorola KSN-1038A Piezo
Posted by Harrydutt on Fri, 03 May 2002 16:29:24 GMT
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I'm planning to put these two units in a 36l vented box. I'm a neophyte on technical details so I need your HELPon how to match the piezo tweeter with the fullrange Pioneer. What value of resistor and capacitor to use on the piezo,and any other worthwhile tweaks. My amplifier is a vacuum tube push-pull giving 15 watts/channel. Thanks for any help,Harry.

Subject: as mentioned at HUG, the single driver website
Posted by Sam P. on Fri, 03 May 2002 19:38:34 GMT
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is where you really need to go with this question. Do a search for pioneer B20. They are a step up from the ratshack crap that have many devoted, delusional fans in the cheap/cheerful crowd that lurks there. Look up "Godzilla's" speaker project. Not that they "don't sound good". They are OK. But in using CHEAP,taiwan drivers, don't lose sight of the fact that you are deliberately choosing to build a compromised system...don't expect high end results with a low end investment, life and physics do not work that way. Hey, why not just build something from a PROVEN design, like the 1 Pi's? That said, I would not part with my B20 TQWT speakers for less than $750 under any circumstances, but YMMV.single driver web sitehttp://www.melhuish.org/audioI'm not "the hall monitor", in spite of what a few individuals might think...but KNOCK OFF THE DOUBLE POSTS. Search the single driver website. Everything you need to know, INCLUDING THE CORRECT T/S data, is there. Good luck. Sam

Subject: Re: as mentioned at HUG, the single driver website
Posted by JanB on Fri, 03 May 2002 19:56:56 GMT
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Hi Samyou are a little hard now , please , let the newbees taste the good sound too.And , a lot of people has good results with radio schack "crap".And the One Pi's is cheap too , are they "crap" too? , well no they are not!.Best RegardsJanB

Subject: Re: HELP on mating Pioneer B20FU20-51FW with Motorola KSN-1038A Piezo
Posted by bmar on Fri, 03 May 2002 22:59:52 GMT
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chances are the Piezo will be a little hotter than the Pioneer. would need efficiency specs for both speakers to know for sure which one will need attenuation. there are a ton of post on the Pi forum on piezo's that you could search into. if you want to play around. just hook up both speakers together. the piezo does not need a capacitor to protect it. I have added a piezo to a system before for a little extra top end performance. I have used a 1uF cap in series. this will attenuate it and give a higher xo point. the piezo doesnt act like a normal cone speaker. read up a little and play around. you cant hurt it.bmar

Subject: you have a lot of nerve
Posted by Sam P. on Sat, 04 May 2002 00:55:26 GMT
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trying to characterize the 1 Pi as being in the same cheap category as ratcrap. The 1 Pi kit is over $40 per speaker in parts...average ratcrapcreation about $10. Made is USA vs. taiwan. Designed by a degreed engineer vs. "internet committees". Instead of leading him down the damar path favored by ratcrappers, I suggested, "Why not build a proven design like the 1 Pi?". I wanted him to improve his chances of hearing "good sound", it's up to him whether to chase rainbows or follow physics. Had I seen all those posts at HUG, I would not have bothered trying to "help", he's got enough "INFO" now to stay confused already. Sam

Subject: Motorola KSN 1038 Information
Posted by Wayne Parham on Sat, 04 May 2002 03:53:44 GMT
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I don't have any experience with the Pioneer B20FU20-51FW but I've worked with the Motorola KSN 1038. There is a collection of posts at the link below about the tweeter that may be helpful to you. Included in this list is a post that has the Motorola spec sheet, showing response, efficiency and distortion. There is also a post that has a chart of values of series capacitors that will give various attenuation values. And you'll find several posts that describe crossover circuits and implementations of many kinds of speakers using the Motorola KSN 1038 tweeter.

Motorola KSN 1038 Information

Subject: B20 "flat" past 10kHz(nt)
Posted by Sam P. on Sat, 04 May 2002 17:12:53 GMT
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nt