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Subject: 2Pi question

Posted by [bqc](#) on Tue, 13 Aug 2002 21:03:01 GMT

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The kits description mentioned crossover for the larger pi's which use compression horn tweeter. So I assume that since the 2pi's use piezo tweeters, they don't need high pass filter. But what about low pass? Does the 2pi have any crossover component at all?

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Subject: 2Pi answer

Posted by [Wayne Parham](#) on Tue, 13 Aug 2002 21:26:20 GMT

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There are no reactive components used as a crossover at all. The crossover is formed by the electro-mechanical properties of the motors, themselves. I think you'll really be impressed with 'em too! So write me back when you are finished and listening to them. Let us know what you think!

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Subject: Re: 2Pi answer

Posted by [bqc](#) on Tue, 13 Aug 2002 21:57:15 GMT

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Thanks for the answer. Do you recommend tweaking the piezos to mellow out their harsh ceramic sounds? I have heard of putting cotton batting behind the diaphragm to smooth out the sound. Is that tweak needed or effective?

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Subject: Re: 2Pi answer

Posted by [David W](#) on Wed, 14 Aug 2002 00:08:48 GMT

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Hello <http://melhuish.org/audio/diy35.htm> Scroll about halfway down for some good piezo modifications. Damar varnish is available at craft stores in the art section, and rope caulk can be found in hardware stores. I think modeling clay could be just as effective as rope caulk and would be easier to find. It also would not hurt to put rope caulk on the basket of the woofer also. David

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Subject: KSN-1038

Posted by [Wayne Parham](#) on Wed, 14 Aug 2002 02:37:54 GMT

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Some describe modifications they've made to piezo's, but I've always found the KSN-1038's to sound excellent, just the way they are. I don't recommend doing anything to them, other than perhaps taking them apart and cleaning them. Make sure there's no debris inside them. It's easy for sawdust to fall down inside them, past the phase plug, and it is then trapped against the cone. If you drill mounting holes using the tweeter as your guide, it's particularly easy for sawdust to fall inside. And even if you've been very careful, dust and debris could fall inside while the part sits on the distributor's shelf. So that's the one thing I can suggest be done to these units at assembly time - Take 'em apart and gently blow free any debris that may have collected on the cone or back plate. Here's the specifications of the KSN-1038, "right out of the box" - CTS (Formerly Motorola) KSN-1038. The performance data shown above is what you can expect from an unmodified unit, and as you can see, it is clean and flat, and distortion is very low. If you insert damping material, modify the assembly or apply a film of some sort, you'll have a very hard time doing your modifications consistently. I know that some recommend techniques such as these, but I don't agree with them. I find no fault in the little piezo's - not the 1038's anyway - There's just no fault so glaring that I would want to change them. The performance data shown above is quite good, and I think they sound as good as the numbers indicate. They don't generate more than about 115dB/M and they can't be used below 3.5kHz. But within these constraints, they're really excellent parts and I wouldn't want to change them.

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