Subject: Pi Alignment ?
Posted by hitsware on Fri, 12 Aug 2005 04:49:11 GMT
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How does one determine 'Rou' ? .....mike

Subject: Re: Pi Alignment ?
Posted by Wayne Parham on Fri, 12 Aug 2005 06:36:38 GMT
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It's best to measure the T/S electro-mechanical parameters, and use the reciprocal of Qts as Qd.

Subject: Re: Pi Alignment ?
Posted by hitsware on Fri, 12 Aug 2005 15:31:53 GMT
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Thanks!Obtaining the T/S parameters is what I'm working on.I have a 'woofer tester' that does a good job (agrees with the classic 1K Ohm method)BUTFor some reason it goes bonkers on certain drivers (Fs 4Hz AND -Qts!)So I'm trying to streamline my manual method.I'd like to use the Fl & Fh = -0.707 Zmax method for Qts (since my scope has a specific graticule for this purpose) and absolute values are not needed (Zmax is set @ full scale):Qts=((Fs/(Fh-Fl))*(Re/Zmax).....Actually 'Qo' ????Anyways then comes Vas (using added mass).But if it could be calculated at this point it would be slick.So Rou=1-(((Zmax/Zmin)-50)/10) doesn't work anymore ?Technology Marches On ! ..... mike

Subject: Re: Pi Alignment ?
Posted by Wayne Parham on Fri, 12 Aug 2005 17:07:48 GMT
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The Rou method is easy, and in many cases provides a pretty good approximation. But I think the sealed box method is better for large woofers, and added mass is better for midwoofers and other speakers with stiff suspensions.

Subject: Re: Pi Alignment ?

Posted by hitsware on Fri, 12 Aug 2005 22:26:36 GMT
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>I think the sealed box method is better >for large woofers, and added mass is better >for midwoofers and other speakers with >stiff suspensions.Yea.....Maybe too stiff of suspension iswhat throws the W.T.I tried the closed box method on it andmanaged to get a -Vas (I knew they were mind expanding):)The drivers I'm playing with (the kindused in grocery store ceilings) are allhi-Q. Anyways I came up with the below and itmatches the W.T. pretty well.Used Futtrups app as a go-between.Thank You again ..... mike
Quick and Dirty