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Subject: Re: Time Alignment

Posted by [Wayne Parham](#) on Tue, 03 Oct 2006 13:53:22 GMT

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The sound emanates from the diaphragm, so that's the reference point, not the voice coil or magnet. Of course, the diaphragm isn't usually flat unless the speaker is planar, and that's one of the reasons why perfect alignment isn't possible. Another is reactive elements in the system, such as inductors, capacitors, mass and suspension stiffness. Yet another is chaotic elements in the system, like cone flex, electro-magnetic and suspension non-linearities. You're shooting for

That's the goal, because that's what keeps summing true and makes the speaker sound natural.

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