Subject: Re: Where's the Voice Coil?
Posted by Wayne Parham on Mon, 26 Mar 2012 15:09:49 GMT
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Measurements at a large distance make small shifts in acoustic center have less effect on SPL, but they don't change the effects on phase. If you have two sound sources that are a half-wavelength apart, you'll still have cancellation, no matter what distance they're at. So distance won't help with that. But if the goal is to get accurate measurements of SPL, then measuring at a distance helps, because it makes the smal shifts in acoustic center less relevant. For example, if the acoustic center is one meter behind the face and you measure one meter from the face, then you have actually measured two meters from the source. But if you measure ten meters from the face, then that's eleven meters from the source. One is a factor of 2.0-to-1.0, the other a factor of 1.1-to-1.0. See the difference?