Subject: A wierd question
Posted by Jerry Parker on Mon, 22 Jul 2002 00:09:37 GMT
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I have always wondered this, but could not figure out why it has happened.Say you take two woofers, same type, and place them next to each other. When you press on the cone of one, the other will do nothing. Yet, when you place them in a box (two chambers), they will both move, the one not being pushed not as much. Also, when the two are wired together in series or parallel they will exibit the same phenomena, obviously because moving the voice coil through the magnetic gap creates a charge. But, why then, when would the two move when not electrically connected to each other, but in a box? Keep in mind this is not a single chamber box, both drivers have their own seperate airspace. Perhaps there is a leak, but I dont think a small leak could cause as much driver displacement as I have seen. At first I thought it was the magnetic fields interacting, but this doesnt occur when both are out of enclosure. Any ideas? Thanks.

Subject: Magic!
Posted by Wayne Parham on Mon, 22 Jul 2002 04:10:53 GMT
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There is an electrical connection that is coupling the two so that there is a generator/motor relationship and there is shared chamber volume that is coupling the two in a pressure/vacuum relationship.

Subject: Re: A wierd question
Posted by JLapaire on Mon, 22 Jul 2002 13:50:10 GMT
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Not sure if this is exactly what you were getting at, but.....when one speaker is operating next to an unpowered one, the unpowered one will respond to the acoustic energy the same way your eardrum will. Bass notes from my 4 PIs will make the adjacent Buschhorn MK2s move to what looks like nearly their full excursion.John