Subject: Re: Speaker Stand Article
Posted by 24KPython on Thu, 15 Nov 2012 02:59:50 GMT
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I believe "coupling" spikes and such were created as an alternative to essentially bolting the speaker to the floor. A separate issue from panel resonance is that speakers rock themselves back and forth opposite the cone motion. Lighter speakers are especially susceptible to this type of distortion. Adding mass to the cabinet helps to keep motion properly isolated to the cone, but coupling speakers to something even heavier will help even more. Short of nuts and bolts, the spikes can lock the speaker to its stand (or the stand to the floor) by multiply the weight of the speaker into a pressure of hundreds of pounds per square inch.

With that in mind, consider that foam and rubber "feet" and "isolation pads" can make it easier for speakers to rock themselves around, adding and subtracting from the cone motion to create acoustic distortion.

Personally I use both - I use a sand-filled stand many times heavier than the speaker, the speaker is spiked to the stand, and the stand is isolated from the floor, so that floor vibrations don't get into the speaker.