Subject: Port position
Posted by Wayne Parham on Sat, 10 Apr 2010 14:10:53 GMT
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Port placement on my speakers is really just an aesthetics thing. I think they look better when made in mirror images. When someone orders a single speaker, I'll ask if they want one with the port on the left or the right. But this isn't all that important to the acoustics.

The sound coming from the port is so low in frequency that the position of the port is almost completely irrelevant. Now in the tower, its position matters because of internal standing waves and how pressure nodes line up inside the cabinet. But this is a different matter, and really only applies to the harmonics, not the fundamental. By the time the sound exits the port, what comes out is mostly the Helmholtz resonant frequency, and that's low enough that port position doesn't matter.