Subject: Displacement of driver
Posted by Adrian Mack on Mon, 19 May 2003 20:30:28 GMT
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Hey everyone.I need to know how much volume in litres the Eminence Alpha 6 takes up so I can add that to my final back chamber volume. Also, their website states an xmax of 0mm, does anyone know how much excursion (linear, one way) I can really get out of it?I emailed Eminence about a week ago, and no response :-(I hope somebody can help me!Thanks!Adrian

Subject: Re: Displacement of driver
Posted by Wayne Parham on Tue, 20 May 2003 00:19:21 GMT
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To find the volume displaced by a driver, I often use the "volume.exe" program included in the PiAlign program distribution. It's just a simple little program that computes the volume of primitives like cones and cylinders and stuff. You can estimate the displacement easily by estimating the speaker basket as a cone and the magnet as a cylinder. This process of modeling a complex shape using a series of primitives is called constructive solid geometry.For example, if the speaker is 6" diameter and the cone is about 1.5" deep, then the basket can be estimated at 15 cubic inches. Then, if the magnet is a cylindrical shape roughly 4" diameter and 2" deep, then that's another 25 cubic inches. So you add the two and come up with a total displacement of 40 cubic inches.

Subject: Re: Displacement of driver
Posted by Adrian Mack on Thu, 22 May 2003 06:46:50 GMT
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Great! It works very well. :-)Compression drivers should be coming in about 5 days :D