
Subject: Wayne, compensation question please
Posted by [ToFo](#) on Wed, 13 Nov 2002 05:58:30 GMT

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Hi Wayne, When making my Theater 4's I had trouble getting CH-3's and didn't want the smaller horn for aesthetic reasons, so I ended up with a 2370 horn. I recall it came up once that it is fine in this speaker but may be a little "splashy". You were right about that, and that it's subtle, but I would like to tame that a bit. I have since acquired the CH-3, but there is still something about that 2370 that I can't do without. I really like it's sound in the low thousands. When compared to CH-3 it seems that it needs less compensation and maybe at a little higher frequency. Actually, my suspicion from looking at JBL's data, is that the slot loaded part makes the 2370 look more like a shelved response, not falling. JBL shows response is roughly flat to 5.5K then drops 4dB, then it is flat to 15K. So when you add the sloped response of the cap is this what makes it "splashy"? I have noticed that with PSD 2002 (as opposed to the JBL used for their data) it still falls a little over the top two octaves, but not as quick as on a CH-3. So it still needs a sloped compensation. My first thought is to try a .33mF bypass on the pad. I know this will make the comp happen higher. In relation to the rest of the HF band, if the comp happens "later" is it also reduced in level due to it's "knee" being further out of band? Also, say I used an LF driver that is more sensitive. (delta pro for instance) This forces me to use less HF padding. would this reduce the effect of the cap without having to raise the frequency of compensation? Would this have the overall effect of making the compensation curve seem shallower, or would it just seem to have moved up in frequency? I think I need shallower compensation, but I don't want it to start too late. I see the comp cap as a first order rising response, but I know it behaves differently as part of the system. I do not have a good handle on all this yet. what is the best approach for a 2370? Thanks for putting up with us can't leave well enough alone's, Thomas