Subject: More info wanted on DCA speaker drivers, and help wanted on 1st horn speakers!
Posted by Cheesehead on Wed, 08 Nov 2006 01:11:35 GMT
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(Note: I THINK that I may have already posted something to this effect...and I can't find it. Hence, I'm posting again.)I am now the proud owner of some DCA drivers! They use ordinary paper drivers and rubber surrounds, but then again, Class-D amplifiers are supposedly absolute garbage. I'm also trading computer bits to a cabinetmaker to make me some boxes. Can anyone make some suggestions as to what I should do with them?I was thinking some standard PAWO horns; I've heard they have pretty good bass response. The room I'm liable to be using these in is about 18' by 12' (based on a rough guess), and due to an odd design, lacks "corners" in which I can easily put speakers. I know that some horns only work properly if put in the corners of a room; are PAWOs similar to these?For amplifiers, I'm hoping to make these "active" speakers using LM3875 (30w max) amplifiers. Although overkill in terms of power, they're supposed to be quite good if used properly, and they're cheap, too. (I'm paying a grand total of only about 30$/channel for amplification - woot!)Because I'm connecting these with good old-fashioned RCA interconnects (likely Cat6 or Cat5e - cheap, twisted-pair, and shielded!) it's really, really easy to add an active filter. I was thinking of a standard bass-enhancement filter to work against the rolloff that most speakers of this type have below 100hz, and using the DC-blocking input capacitor to cut off signals below about 45hz to prevent nasty sounds. Can anyone also reccomend a good material for the front side of the speaker? In OB designs, MDF has a reputation for damping a bit (not surprising - it's porous!), and plywood pine are both supposed to be better, although more prone to splitting. Should I use a thin sheet of pine or plywood for the front of my speaker? And what would happen if I used thin (1.5mm) copper sheet over the MDF? (This is the most desireable option - I'm better at metalworking than woodworking.)I was also wondering as to the viability of using magnets to attach the front of the speaker. By using some powerful (but cheap) neodiyum magnets (at the corners, and in the middle of the long sides), it would be easy to produce a speaker that could be easily opened and re-stuffed. Also, finally, can anyone reccomend a way to make these hypo-allergenic? I have allergies, and these will likely end up in my room. All the assorted chambers make it look like a massive dust and mold trap.