
Subject: Help me design a simple and efficient car audio (horn? TL?) sub

Posted by [pieter](#) on Tue, 27 Sep 2005 14:57:11 GMT

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Hi guys, could any of you experts help me design a "sub-woofer" system for my car. I have some special wishes: 1. I don't want to buy a separate amp, I want to drive them with my existing 4x35 watts Sony Radio/MD player. 2. In the front doors I have a two-way system (with a crossover) that sound good. I just need some more bass, so I'd figure I put some subwoofers in the back. 3. My car is a station car. I want to put two small(ish) cabs in the trunk, preferably in the corners, so that I can have some corner-loading. 4. I think I want only sounds below 100 Hz coming from behind, for proper integration. So: a simple low pass filter will do, ain't it? 5. Maybe a design with some horn loading could work, to increase efficiency. Billfitzmaurice's Autotuba is too big for me, however. Any ideas? I'm open to all suggestions. Also, links to relevant plans are welcome! Pieter

Subject: Low pass

Posted by [dwerkurfma](#) on Tue, 27 Sep 2005 15:34:26 GMT

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My experience with car subs in the back: any crossover above 80hz and less than 18db/octave becomes annoying. A passive filter in line with the speakers that will do this will be large and expensive. I suggest listening to a setup that has a variable electronic crossover to see how you feel first. Dan

Subject: HL10A in 0.35 to 1.0 cuft

Posted by [Wayne Parham](#) on Tue, 27 Sep 2005 15:41:16 GMT

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I'd go with an Eminence HL10A in a 1.0ft³ box tuned to 30Hz. That will generate strong output to 30Hz. If you need a smaller cabinet, the HL10A can be used in cabinets as small as 0.35ft³. In a small 0.35ft³ cabinet, tune to 40Hz for f₃ of 50Hz. You could also make a cabinet sized somewhere in between, say 0.5ft³ tuned to 40Hz (f₃ = 40Hz) or 0.75ft³ tuned to 35Hz (f₃ = 35Hz).

Subject: Re: HL10A in 0.35 to 1.0 cuft

Posted by [pieter](#) on Tue, 27 Sep 2005 16:26:51 GMT

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Thanks !

Subject: Thanks

Posted by [pieter](#) on Tue, 27 Sep 2005 16:28:22 GMT

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Thanks. The price of a passive filters is indeed important, and thanks for the 80 Hz max. suggestion.
