Subject: Re: K1840 for consultation
Posted by Anonymous on Tue, 03 May 2005 15:20:15 GMT
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According to your design goals;*Ken isn’t into high quality audio in any big way*it plays loud (high SPL) *it plays LOUD .... etc etc etc *Therefore extreme high quality is not an issue hereThe line array of those pioneer 4" midranges will do the trick.Since there is no low pass crossover you should at least tamethe driver to make it sound good. A simple $5 modification will dothe trick. Coat the cone with 4 coats of lacquer. To improve power handling there is another mod, but it cost $30-$40and you have to inject about 5 - 10 tiny drops of ferrofluid on thevoice coil using a syringe. I've done alot of ferrofluid tests with the dust cap off and the only issue with no dust cap is -> the dust.lol -- dust will clog the fluid and gum up the driver over a longtime. It's best to find a way to inject the fluid and keep the capon. The fluid boosts power handling alot, I drove 400 peak for about10 minutes before the driver literally melted and fused the coil stuck. The SPL was mad just from one driver, imagine the array. /heheIf you don't use a high pass crossover there is a good chanceof destroying those drivers with excess bass. You shuold crossthem over ~100 - 200hz at least. To get good bass out of the designyou can port the midranges and tune it to 100hz to give you a nice 6 - 9db boost centered around 100hz. I'm working on an array with those drivers and I have a diaryhere;http://www.caraudioforum.com/vbb3/showthread.php?t=210115Essentially, the drivers will be modded with lacquer and phase plugand maybe ferrofluid, unsure yet. I uploaded some 'sneak peak' low quality pics and video hereof my current project I'm doing for a friend. http://www.caraudioforum.com/vbb3/showthread.php?t=216773If you want to improve the sound alot, add a center horn {ie, compression driver w/lense}. Eminence would offer good results,but PE has cheaper horns you can use. Here is a concept of a 3 way line array with a center horn, those midranges, and some 7" woofers.http://home.pacbell.net/lordpk/misc/Feandil-2.GIFThis design was built recently and the builder loved the sound,he said it was awesome especially with that Eminence horn. He hadto lpad the horn. He powered his array using a QSC 2450 pro amp.If you want more info on that project I can give you his email addressif you have specific questions. Send me an email to my hotmail.comaddress, use thylantyr as the name.