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Subject: Re: FE127E Design-- MLTL  
Posted by [lon](#) on Mon, 04 Jul 2005 02:29:39 GMT  
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Hi again, I got pretty close on all the measures but changed the ports substantially. There is a description and drawing of the GM MLTL at the EJ Jordan Website. You could use the measures in the link above for the FE127e. Here's what I did: I got some 69 cent shelving which I didn't have cut at all in the long length and the end panel had to be trimmed to the right depth. Having your own table saw helps with all this: I have to ask someone occasionally to borrow some table time...even that is real sketchy. Cut the speaker hole with a 3 11/16 hole saw or a 4 in. 4 in is easier to find. I chamfered out the back using a 3 dollar chamfer bit mounted in a spin saw (spin saw is like a Rotozip). The 6 in port I used is made from 2 in od pvc pipe from the hardware/plumbing store and the hole is cut with another hole saw of 2 in. diameter. So far we have a box with speaker mounted on the face, chamfered back and no stuffing with a couple holes drilled in the back to let the speaker leads out... and a 6 inch white pvc tube sticking out the bottom. What to do? I tried making a custom stand from more of the shelving stock but the easier solution was to take 2 of those cheap 3 shelf plant stands that are found in any big box store in their so-called furniture department. Well their so-called furniture is my only furniture just about. I used the 2 in hole saw to cut holes in the plant stands and pushed the ports down through those. They're almost the right height at ear level but close enough. I made some grilles from some double knit fabric glued onto some 1/4 in masonite. I managed to cut the centers out with the spin saw, but this is not recommended. Back to the original port design from GM: that can be put on the front, on the back or out the bottom... it can be made with a 1 in. hole saw and a couple layers of whatever comes up to the 1.125 (whatever) depth. I didn't like the sound from the stubby ports... it was low but not clear on plucked string bass. So I lost a bit on the organ recitals I use to test builds. However my main application is jazz shows and use with the dvd-tv and streaming audio net news broadcasts. If you aren't faint hearted when it comes to using EQ, this design works well and will teach a lot about how much can be done with a little. Any questions, come back again. The link below is another design that looks interesting for an inexpensive driver in the Fostex line: a labyrinth with mirror side ports. I cannot find the MLTL Jordan design at the moment. In a full speaker cab design, the longish port extends out the bottom and the side panels can be full length to the floor. A 45dbaffle is used to focus the port energy out toward the listener

| ( | \_ \ sort of like that in stick men terms: profile view.

Fostex design for a FE108 Sigma