
Subject: More info and help with the 1pi speakers

Posted by [jillvalentineforever](#) on Mon, 28 Jul 2014 06:33:42 GMT

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First and foremost what is the lowest frequency I can get out of 1pi speakers?

Eminence alpha 8 drivers frequency range is 58hz-5khz is but their resonance is 73hz.

I heard things about speakers won't produce frequencies loudly below their resonance frequencies, but they will still produce it.

So if the plan gives me between 60hz-65hz I'll be happy! I'll also be using them in the bookshelf mounting very near a wall, so might give some bass extension.

When I get the plans and parts required, I will start measuring up and cutting the required pieces.

I'll be using 18mm structural plywood which is in great condition, but what concerns me is finishing the edges off.

I'd much rather use wood stain than veneer(as decent stuff is too expensive and difficult to apply) to finish the cab off.

I don't own a router, so I can't round the edges off, but might be able to achieve it with an orbital sander?

Also what crossover parts are needed for this plan when using the Motorola KSN1038A piezo (very luckily for me an ebay seller still has genuine parts in stock) instead of the dome tweeter?

The reason for going for the piezo is they will be used for house parties too, so don't want to blow a dome tweeter.

Plus piezos sound crisper and give that certain sparkle needed for roots reggae vinyl which I'm be mostly playing/mixing.

My building skills are not too great, so I hope decent wood glue and a corner pine support screwed on both sides with be adequate?

I cannot build anymore advanced joints.

I'm unsure whether to use t-nuts or just wood screws to hold the Eminence alpha 8 driver in, hence it being a small 8 inch driver with a 20 oz magnet.

Last but not least how would I successfully join and mount crossover components?

I normally use off-shelf crossovers when building pa enclosure designs. Such as Eminence, Beyma and others.

I've made simple custom crossovers sometimes though.

Joining I guess a good solder joint and heat shrinking for connections would do?

For mounting them, I know a hot glue gun would work well and cable ties to hold larger components down.

Is it acceptable to use a piece of say 12mm plywood to mount the components to? Then glue and screw that to the bottom or back of the enclosure?

As I've never used pcb's when making my own custom crossovers.
