Subject: Cross over upgrade for my Pi 4's
Posted by OneBean on Tue, 05 Jun 2012 12:44:55 GMT
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Wayne, I would like to upgrade my stock Pi 4 cross overs to the mills resistors, Audence caps and higher quality coils. Can you send me a cost for these components? Is there a printed circuit board available to build these on? I have one pair of speakers. I would also like a price for the B&C upgraded CD. Also, can you send me plans for the Pi 3 subs? I think I received these some time ago, but can't find them in my email. One final thing. What would you consider optimum height for the Pi 4's? I have them spread apart about 10', and toed in. My listening position is back about 8'.

Thanks,
Pfenning

Subject: Re: Cross over upgrade for my Pi 4's
Posted by Wayne Parham on Tue, 05 Jun 2012 14:30:19 GMT
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plans for the subs.

We sell both assembled crossovers and blank, unstuffed PCBs if you want to build them yourself. But we do not sell electronics components or raw drivers individually, only bundled in kits.

Subject: Re: Cross over upgrade for my Pi 4's
Posted by OneBean on Tue, 05 Jun 2012 14:58:54 GMT
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OK, I can stuff the boards and solder them, so send me pricing for the kit containing the boards, mills resistors, Audence caps and upgraded coils. I'll watch for the plans.

Thanks,
Pfenning

Subject: Re: Cross over upgrade for my Pi 4's
Posted by OneBean on Tue, 05 Jun 2012 15:08:30 GMT
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I am also thinking of upgrading my CD to the B&C DE250. Parts express sells an 8 ohm version. Is that the right one? Do I need any modifications to the cross over to run these? Do they use the

same horn as my Eminence, and mount the same?

Pfenning

Subject: Re: Cross over upgrade for my Pi 4's
Posted by Wayne Parham on Tue, 05 Jun 2012 17:42:32 GMT
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The DE250 is a bolt-on upgrade, no physical mods required. But it does use different R1/R2 values, so when you're doing the crossover work, be mindful of that. If you order an assembled crossover, make a note of what drivers you'll be using in the order, or we'll contact you to ask. If you build your own, consult the notes on the schematic to know what values to use.

For pricing, see the shopping cart. Upgrade options are shown in drop-down lists, and pricing is shown online:
Pi Parts and Options - Crossovers

Subject: Re: Cross over upgrade for my Pi 4's
Posted by OneBean on Tue, 05 Jun 2012 19:08:17 GMT
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Is the price for a pair of speakers, or for one speaker?

Subject: Re: Cross over upgrade for my Pi 4's
Posted by Wayne Parham on Tue, 05 Jun 2012 20:21:22 GMT
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Prices are for individual speakers. We do that because some people want an odd number, like for home theater.

Subject: Re: Cross over upgrade for my Pi 4's
Posted by OneBean on Tue, 05 Jun 2012 20:54:10 GMT
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How much sonic difference is there between the Jantzen and the Auricap? Is there sonic gain to the upgraded coils, or is it for better power handling? What about the sonic difference of the mills resistors compared to stock? Is it easy to hear a difference?

Subject: Re: Cross over upgrade for my Pi 4's
Posted by Wayne Parham on Tue, 05 Jun 2012 22:54:02 GMT
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This is my personal opinion of the various upgrades:
Upgrades

Subject: Re: Cross over upgrade for my Pi 4's
Posted by OneBean on Tue, 05 Jun 2012 23:21:36 GMT
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Thanks Wayne. I think I will start with the B&C upgrade. Can you send me the cross over schematic for the B&C with the Omega 15? I think I'll just update my existing cross over. Thanks again, I love my 4 Pi's!

Subject: Re: Cross over upgrade for my Pi 4's
Posted by GRBoomer on Wed, 06 Jun 2012 02:00:52 GMT
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Any advantage of the 1% tolerances offered on the Dayton caps?

Would here be audible differences between 4Pis based on the +/-5% tolerance of the capacitors? Or would room placement, other factors swamp any capacitor variation?

Subject: Re: Cross over upgrade for my Pi 4's
Posted by Bill Epstein on Wed, 06 Jun 2012 03:14:40 GMT
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Caps and wire whisper in yer ear; the room hits you over the head

Subject: Re: Cross over upgrade for my Pi 4's
Posted by Wayne Parham on Wed, 06 Jun 2012 04:01:38 GMT
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Definitely. And the drivers shift way more than the electronic components do too.

One of the criteria I specifically design for is parameter shifts. I want everything to be in an operating window that shifts gracefully. The cabinet tuning is actually more of a concern than the

crossovers where parameter shifts are concerned, and is part of why the alignment is slightly overdamped.

Subject: Re: Cross over upgrade for my Pi 4's
Posted by mgalusha on Fri, 08 Jun 2012 15:52:42 GMT
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Bill Epstein wrote on Tue, 05 June 2012 21:14Caps and wire whisper in yer ear; the room hits you over the head
I love this! So true, so true.
