Subject: Modify crossover
Posted by David Morehouse on Wed, 22 Jun 2011 10:31:10 GMT
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Change a PXB3:1K6 crossover to a PXB2:1K6

Using the Eminence PXB3:1K6 crossover.
I want to full range the mid and high for small gigs.
Active crossover between this and the Delta for larger gigs.

What component elimination and changes do I have to make to this crossover?
Can't find a schematic for a PXB2:1K6.

Also: the cabinet ready crossover looks to have a tweeter
attenuator. Does Waynes tweeter cct. mods eliminate this
or should I go for an adjustable attenuator?

File Attachments

1) eminence 1.pdf, downloaded 948 times

Subject: Re: Modify crossover
Posted by Wayne Parham on Wed, 22 Jun 2011 12:40:23 GMT
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Which model speaker crossover are you trying to emulate?

You can modify an Eminence crossover to make it - just look at the schematic and replace values where needed. You'll have to add the (R1/R2/C1) tweeter compensaton externally, like in a cable assembly. You'll also have to add the Zobel off-board.

Subject: Re: Modify crossover
Posted by David Morehouse on Thu, 23 Jun 2011 09:50:57 GMT
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Using these speakers my set up has been 6pi. I have built many systems through the years, (the 6pi being the best) but due to some disease I can not leave well enough alone. The only self built speakers I have left are a pair of Zigmahornets.

I wish to change my pxb3:1k6 crossover to a pxb2:1k6.

The psd2002 and 10" mid are now in a 1.5 cu.ft. ported cabinet.
The 10" mid is no longer horn loaded. The 12" bass is in it's
own 3.5 cu.ft. ported cabinet. I want to run the 1.5 cabinet
full range using the 3 way crossover. The tweeter compensation
cct. has been added.
When I use both cabinets I will be using a Behringer active crossover.
I can't find a schematic for the pxb2:1k6 crossover.

Subject: Re: Modify crossover
Posted by David Morehouse on Thu, 23 Jun 2011 10:11:13 GMT
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This forum is still very active and Wayne is super for answering
everyones questions promptly. If other members wish to modify
my crossover for me feel free.
Then Wayne can intervene with suggestions or corrections if needed.
This may lessen the burdon on Wayne,(or make it worse)

Subject: Re: Modify crossover
Posted by David Morehouse on Thu, 23 Jun 2011 11:33:52 GMT
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On further investigation I believe what I want is a 3pi crossover built from a 6pi crossover.

Subject: Re: Modify crossover
Posted by Wayne Parham on Thu, 23 Jun 2011 12:37:19 GMT
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crossover schematic, look here:

The Eminence PXB2:1K6 crossover is pretty much a textbook second-order woofer filter and third-order tweeter filter (without Zobels). It has been a while since I fooled with it, but as I recall the woofer values are 1.0mH and 10uF, and the tweeter values are 8.2uF, 0.6mH and 22uF, something like that.

Subject: Re: Modify crossover
Posted by David Morehouse on Thu, 23 Jun 2011 22:08:49 GMT
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Thanks Wayne. That's all I need.