Subject: Converting Studio 2Pis to a 'Plus" configuration
Posted by Skip Pack on Fri, 25 Feb 2022 18:21:28 GMT
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Wayne,
Have you or anyone added your standard newer horn and compression drivers to a Studio 2Pi box and 10" driver. You do use this combination in the 8Pis, but that's a different setup. I would think an adjustment to your 3Pi/4Pi crossover could make it work. Totally out of balance economically for a new build, but it could be nice as a conversion project for already built speakers: a nice upgrade.

Thanks,
Skip

Subject: Re: Converting Studio 2Pis to a 'Plus" configuration
Posted by Wayne Parham on Sat, 26 Feb 2022 00:02:19 GMT
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You're right, you could do it. But it's just so bass-shy without the large rear chamber.

the attenuator with a coil to balance the bass and midrange. It's a lot like attenuating a horn tweeter to match a direct radiator.

You can use the same approach with a smaller rear chamber, but there's just less down low to handoff with the augmentation coil. So like anything else, it's a tradeoff that becomes a question of balance.

Subject: Re: Converting Studio 2Pis to a 'Plus" configuration
Posted by Skip Pack on Sat, 26 Feb 2022 02:00:25 GMT
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I think I didn't quite convey my concept. Rather than convert to the midhorn with the bass contoured in by the huge inductor, I am thinking of using the 2Pi BR box alignment unaltered in the existing boxes, and building in the tweeter and it's horn where the dome tweets sit presently.

I could use a new crossover based on your existing 2-way boards. This mostly would involve modifying the low-pass section to match the 10" alignment up with the HF components. I'd call it a 2.5Pi, Maybe.

Subject: Re: Converting Studio 2Pis to a 'Plus" configuration

Posted by Wayne Parham on Sat, 26 Feb 2022 17:01:04 GMT
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Oh, gotcha. Yes, you could do that.