Subject: Pi Theater 4 driver replacement
Posted by Groucho on Sun, 25 Feb 2024 06:37:01 GMT
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Hi Wayne,
As you suggested years ago, I would replace PSD2002 drivers with B&C DE-250 compression units. I found a pair of used DE-250-16 (16 Ohm model): can I adapt it with some mods on L-Pads? Thanks in advance!

Subject: Re: Pi Theater 4 driver replacement
Posted by Wayne Parham on Sun, 25 Feb 2024 15:41:25 GMT
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You can, sure, but I'm not sure what values to tell you to use. The values for R1/R2 set the attenuation and also set the damping on the tweeter circuit, which has a large effect on the localized region near the crossover frequency. Too much damping and there's not enough output but too little damping and there's a peak at crossover. So you may or may not need to add a resistor in position Rs.

designed for. I even made a chart of R1/R2 values that maintained the right damping and provided attenuation at various levels in 2dB increments. But this chart can't be depended upon with other driver impedances.

Subject: Re: Pi Theater 4 driver replacement
Posted by Groucho on Mon, 26 Feb 2024 09:46:50 GMT
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Thanks,
Worth a try or better change the dome/coil with the 8 ohm type?

Subject: Re: Pi Theater 4 driver replacement
Posted by Wayne Parham on Mon, 26 Feb 2024 14:42:51 GMT
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those are regularly available resistor values.

Subject: Re: Pi Theater 4 driver replacement
Posted by Groucho on Tue, 27 Feb 2024 09:33:54 GMT
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Thank you. Will do