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Subject: Pi4 with AE TD15M instead of JBL for midbass, would it work?

Posted by [Scott](#) on Mon, 02 Mar 2009 05:03:21 GMT

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Hi Wayne. I've been looking into upgrading my front three mains for my theater and have been looking into the Pi4 for some time now. I was wondering though if instead of the JBL midbass I could use an alternative. I have lots of interest in the TD15M from Acoustic Elengance. Seems to me that it could have superior performance to the JBL and is priced around the same. Here's the T/S for the AE TD15M: Fs: 34.7HzQms: 5.09Vas: 312LCms: .3mm/NMms: 70gRms: 3kg/sXmax: 6mmSd: 855Qes: .35Re: 6.6Le: .2mHZ: 8ohmBl: 17TmPe: 500WQts: .331W SPL: 97.8dBDo you know if these would work with your Pi4 crossover? The Re is a little different so that might skew it the most. The Xmax, Fs, power handling, sensitivity are all very close. The inductance is much, much lower on this AE driver though. I provided a link to the rest of the TD series T/S specs and a picture of the frequency response of the TD15M. It is said to be very usable off axis to 2khz and on axis to 4khz. Thank you.

<http://www.aespeakers.com/phpbb2/viewtopic.php?f=3&t=1641>

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Subject: It would definitely be worth a try

Posted by [Wayne Parham](#) on Mon, 02 Mar 2009 06:00:32 GMT

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I expect it would work well and sound very nice. Might be a drop-in replacement, or it may be that some minor crossover changes are necessary. The only way to know for sure is to measure it and see.

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Subject: Re: It would definitely be worth a try

Posted by [Scott](#) on Mon, 02 Mar 2009 07:07:33 GMT

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Hello Wayne! Thanks for replying so fast. I wasn't sure or not if you would tell if it would work with your crossover for the Pi4. I don't know anything about designing crossovers but I do know how they work. Here's the measured impedance if that helps at all...Thanks again Wayne for the reply. One way or another, I hope to be a Pi4 owner soon.

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Subject: Re: It would definitely be worth a try

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Posted by [Wayne Parham](#) on Mon, 02 Mar 2009 17:54:51 GMT

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The impedance curve looks good, with very little impedance rise at higher frequencies. That's something Nick has focused on, in addition to other features in the core to reduce flux modulation and thermal runaway. The crossover will work fine with that load electrically, but the thing one would want to watch is the acoustical interaction between woofer and tweeter in the crossover region. It may be that the existing components are exactly the values you would want, or it may be that some small adjustments are needed.

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Subject: Re: It would definitely be worth a try

Posted by [Bill Wassilk](#) on Wed, 11 Mar 2009 01:04:43 GMT

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Hey Wayne, have you ever tried modeling the Eminence Kappa Lite 3015LF's in a Pi4? Since I upgraded those Tuba 36's of mine from the EV's those cabinets slam pretty hard now. Even though I don't have any measurements, there was quite a noticable difference in the sound, even though the specs were close to the EV's. Bill

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Subject: Re: It would definitely be worth a try

Posted by [Wayne Parham](#) on Wed, 11 Mar 2009 04:21:21 GMT

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A few people used the Kappa 15 several years back as a low-cost substitute for the Omega 15 in as I recall, and the users reported good things from those combinations. I don't know how similar the Kappa Lite 3015LF is though.

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