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Subject: Two Cabs Into a K200B

Posted by [Optyk](#) on Wed, 26 Mar 2008 16:03:36 GMT

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OK, before I screw up down here, I want to make sure of something, so I need you gurus to get me onto the right track.

I have a K200B-5 PA head I'm using for a PA head for our newly formed group. At some point, I'll get a newer powered mixer and use the K200B-5 for something else. I also have a 3-15 Kustom cab. The speakers are all 16 ohm and they're wired in parallel so I'm at 5.33 ohms impedance in that cabinet. I currently run that from a Peavey head and use it for my guitar.

I recently bought a KSE215 (newest model) Kustom PA cabinet which has two 15's and a horn and is rated at 4 ohms. The guy only had one of them, so that's all I have at the moment. I've been looking for another one so I have a matched pair, but haven't located one yet. Beautiful sound out of that cabinet, by the way. I highly recommend it.

I'm building another speaker cabinet and am almost finished with it. It'll have 4 10" 16 ohm speakers in it, wired parallel, so it'll be a 4 ohm unit.

I'm thinking that I'll use it temporarily for the other side of our PA until I can locate another of those KSE215's. I'll be using the K200B-5 to run the PA into the KSE215 and the homemade 4-10" cabinet for now. That's where my problem is. I know 4 ohms is the minimum I should run on that head. I haven't seen it specifically stated, but I have come to the conclusion that that does NOT mean 4 ohm loads into each output jack on the K200B-5 at the same time. Am I correct in thinking that running two 4 ohm loads (i.e. two 4 ohm cabinets at the same time) reduces the load to 2 ohms which puts the head into danger of going kerblooey? Last I heard, kerblooey was bad, bad, bad.

OK, so if I am right that I can't run two 4 ohm cabs into the amp at the same time, how do I do this? I read somewhere on this board about building a special cable for jumping from one cab to another, putting the cabs into series, but danged if I can figure out how to do that. I've tried a couple configurations by rewiring a cable and checking impedance and what I've done isn't making much difference. I know how to read a meter and have it set to the lowest resistance setting so it'll give me decimal readings on the impedance. No way I'd claim to be a competent tech, but I do have enough knowledge to read a VOM.

Anyway, could someone explain to me how I can run two 4 ohm cabinets into that K200b-5 simultaneously without blowing the amp? Any and all help will be massively appreciated.

Thanks in advance.

Rod

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Subject: Re: Two Cabs Into a K200B

Posted by [Less](#) on Wed, 26 Mar 2008 16:49:47 GMT

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Rod,

To make a series cable, take three speaker cables that each have one 1/4 inch plug. Pick one end that will plug into your K200 and wire the other two ends in series (see below). Plug these into your two speakers, and then measure the ohms of the end that plugs into the K200 - it should be "8 ohms" (approx 6 to 8 ohms).

-Les S

- a) K200 + ....to spkr.plug.1 +
  - b) spkr.plug.1 - ....to spkr.plug.2+
  - c) spkr.plug.2 - ....to K200 -
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Subject: Re: Two Cabs Into a K200B  
Posted by [Optyk](#) on Thu, 27 Mar 2008 13:44:36 GMT  
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Thanks for the info, Les. When I looked at what you said to do, it makes perfect sense. I believe, looking at that schematic, if you unplug either of the cabinets in that configuration, you lose signal to both, right?

OK, and to expand on that, since you've got two 4 ohm loads (each cabinet. . .) in series, you now have an 8 ohm load on the amp. The KSE215 has an "input" 1/4" connection and an output 1/4" connection on it. It appears according to my ohmmeter that this would simply parallel whatever you plug into it with the KSE215 speakers. I could wire the 4-10 cabinet that way also. By doing that, I could then have two "sides" at 2 ohms each (with a second cabinet plugged into each "side"), wired in series using your cable schematic which would give me a 4 ohm total load on the amp, and bump the potential wattage back up to 100 watts.

Am I correct with this?

The reason I'm asking is I have a couple smaller PA cabs with 2/12's in them that I could use in conjunction with the other stuff, just to move a little bit more air in hopes of perceived volume increasing.

I have lurked on this site for years. Every now and then I'll surface, like now. I just want to say that the archive of information on this site is invaluable, even to those of us who aren't "regs". Thanks to all that provide input and answers to Kustom issues.

Rod

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