
Subject: output jacks

Posted by [kanil](#) on Wed, 07 Jul 2004 09:20:06 GMT

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Hi all, Sweden calling! I am new to this board but a devoted Kustomfreak and I must say, the knowledge that is out there!!!!

I have a K200-B4(just bought it on Ebay) and a K250 amp. Unfortunately no Kustom cabs to go with them (extremely rare here in Sweden). I also have a reissue TRT 100 tubeamp and a reissue 4x12 cab. I realize it's a bit like cursing in church to even mention the reissues but in the land of the northern light that's as close as you can get if you want a Kustom rig (until now). It sounds quite alright.

My questions to you all experts: on the K250 there are three outputs. The speaker output I can understand but the other two are not labeled on my amp. What are they?

On the K200-B4 there are three outputs not labeled; two close to each other (guess they are the speaker outputs; (load 4, 8 ohms??) but the third one is another type of output. What is it?

Nice being with you

Subject: Re: output jacks

Posted by [stevem](#) on Wed, 07 Jul 2004 11:19:47 GMT

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Hi and welcome! On the 250 head, as you face the rear, the right most jack is used to drive the second 250 poweramp that was in the second speaker cab of a two cab set up. It can be used to drive any power amp but since it is unbalanced, you will not be able to drive most after market power amps to there full output, and lons cables should be avoided due to being unbalanced.(IE MOST CRFOWN POWER AMPS NEED 1.4 INPUT VOLTS TO GET FULL OUTPUT, I HAVE NEVER MEASUERED THE 250S BUT I DO NOT THINK ITS THAT MUCH) The other jack next to the speaker jack is for feeding a recorder. On your model 200 the other seperate jack is for a recorder also. This jack on the 200 or 250 could be used to drive the input of another head.I hope you are able to find a cab soon or make one. I also have the tr100 head and the 4-12 cab. The china made tubes in the head stink!The outputs are not as bad as the preamp tubes, although they get raspy sounding when driven hard. If you want to make that amp sound great, order 5 of the new groove tubes 12AX7M tubes, 4 should be ordered speacial with high gain, one should be ordered as a balanced phase inverter tube and installed in the back of the amp next to the output tubes. If nothing else you should go to the groove tubes home page and read up on their output tube matching format, and then order their GE6L6 tubes, or the 6L6S tubes in a number 5 rating. You will smile from ear to ear at the difference!

Subject: Re: output jacks

Posted by [kanil](#) on Wed, 07 Jul 2004 13:48:08 GMT

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Thanks ever so much for your info! Seems I got a lot to learn about tubes! I will look into it.

Be back soon!

Subject: Re: output jacks

Posted by [fieldflower](#) on Wed, 07 Jul 2004 20:45:17 GMT

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Hi Kanil,

involved in Kustom amps.

You're not alone - I just got my "new" K250-4 amp and 2x15 cabinet home - bought it from a relative who has had it (in sweden) for 15 years...

Black tuck-and-roll in good condition - almost better condition than my other amps - gotta watch this one a little better.

BR, Ff

Subject: Re: output jacks

Posted by [kanil](#) on Sun, 11 Jul 2004 18:33:17 GMT

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Hi Steve!

About the tubes; what do you mean by ordering 5 12AX7M tubes? There are only 4 of them in the amp and four 6L6's ?? Or am I wrong? What is it that I'm not getting?

Subject: Re: output jacks

Posted by [stevem](#) on Mon, 12 Jul 2004 11:42:42 GMT

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Hi. If I am not mistaken, its been over a year since I had mine opened up. There are 4 12ax7s internal to the amp and 1 12ax7 on the back of the head. If you want some of the best info around, go to TUBE AMP BLUEPRINTING.COM, and down load (its worth the price) the tube primer part 1 and 2. or just read it off the site. You will need to read it twice if not more to let it sink in, but you will have a whole new out look on quality tubes and there sound. Be sure read the reveiws there also for 12ax7s and 6l6 tubes, or go to the(watford valves site and find the reveiws)

Subject: Re: output jacks

Posted by [kanil](#) on Mon, 12 Jul 2004 18:42:56 GMT

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Hi, and thanks again. I will wander off into cyberspace....

Subject: Re: output jacks

Posted by [pleat](#) on Tue, 13 Jul 2004 02:18:05 GMT

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StevenM, correct me if I'm wrong, but did you mean 1.4 mili volts for full rated output? Kustom amps, if I remember right needed 1 millivolt for the rated output of the amp. That is where a lot of amp manufacturers miss lead consumers on the big claims of huge wattage power amps. Increase the input sensitivity, and get more rated output, some even use a regulated 125 Volt AC as the power source. How many clubs have we ever played in with regulated voltage.
Don

Subject: Re: output jacks

Posted by [stevenm](#) on Tue, 13 Jul 2004 11:27:26 GMT

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Hi, The 1.4 volts of drive signal is needed by alot of aftermarket power amps. This is termed line drive signal which is much hotter than the millivolts of output from a regular guitar or mic that gets feed to a preamp first..775 volts of audio signal is = to 0 DB on a output meter, 1.4 volts drive would be plus 4 BD, AND .387 volts, would be minus 4 BD. There is no common convention yet in consmer electronics(CDs DVDs and others) as to what is line voltage, some can put out plus 4BD others are made to do only minus 4BD. And thats a big difference, 8 BD total! next time you are setting up a mixer for a gig change the mic or output level by 8 BD and you will hear why! In the company I work for we test and burn in every power amp. 5 minutes flat out with a 1khz tone at max RMS wattage, (sometimes 70 or more at a time) and a 20 minute burn with pink noise, which a little different than white noise, (the audio sound a TV makes with no signal and just snow on the screen) whwhich is the full audio spectrum 20 hz to 20khz. Its much more of a work out for a power amp and a better test of what a amp can do with real music pumped thru it. The best amps that we test like this are lucky to output 40 percent of the wattage with pink noise that they did with just a 1khz tone! Some amps Ive tested at full tilt output, and both channels driven could not cut it at 115 volts, they needed 120 volts to make it. On the other hand if you are feeding a amp thru a poor extention cord or plugged into a 15 amp outlet when what you have plugged in at music peaks (intermitant) needs 20 amps, The amp will not put out the wattage, and the wall outlets circuit breaker may not trip to let you know! Then again There are some amps that just cant cut now matter what. Its the same game they play with some soild state guitar amps! They say the amp puts out 80 watts RMS at 4 ohms, but its a combo amp that comes with a 8 ohm speaker, now you have 40 watts RMS, or half the amount of clean head room the amp can give at 80 watts. The SPL level you ears sence will not be that much different but the point at which the amp distorts will!

Subject: Re: output jacks

Posted by [pleat](#) on Tue, 13 Jul 2004 16:30:04 GMT

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Steve, your right, I guess I typed before I thought, I went back and looked at a spec sheet I have for a old peavey CS800 and they used 1.3 volts input, 1K test tone, 125v to produce the 800 watts both channels driven. I have a carvin power amp that uses a 1v input signal, and I have a old

kustom pa manual that states 1 volt input.

Don

Subject: Re: output jacks

Posted by [teleman](#) on Wed, 14 Jul 2004 14:29:22 GMT

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I have a k200B3 with a footswitch jack under the harmonic clipper knob. Does this switch the bright function on and off

or clipper or both? Does it need a single button switch. The jack looks like it has 2 contacts.

Thanks, teleman

Subject: Re: output jacks

Posted by [pleat](#) on Wed, 14 Jul 2004 14:48:18 GMT

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No, that jack is used to turn on and off the selective boost and the harmonic clipper (fuzz) circuits. A standard two button footswitch that does not use a momentary contact will work.

Don
