
Subject: 1968 K200-4 with (2) 15" Jensens
Posted by [ampguy](#) on Tue, 04 Nov 2008 01:47:48 GMT

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Does anyone have a manual that they would zerox to allow me to understand what speaker combinations that I can hook up to the head and what impedance the (2) 15" cabinet is rated? I will reimburse you for your troubles. Thanks, AMPGUY.

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [LesS](#) on Tue, 04 Nov 2008 02:17:46 GMT

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K200's minimum impedance is 4 ohms.
So any load from 4 to 16 ohms is fine.

Basically most Kustom 2x15's were 4 ohms.
But the cabinet could have had the speakers changed, so you might want to check the impedance with a multimeter - or if you have the cabinet open, see what impedance is on back of the speakers.

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [C4ster](#) on Tue, 04 Nov 2008 15:37:03 GMT

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I disagree, Les. The minimum is 4 ohms but the speakers are 16 ohm and 2 in parallel which gives 8 ohms. Then 2 cabinets would be 4 ohms.
Conrad

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [steven](#) on Tue, 04 Nov 2008 17:50:14 GMT

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Kustom A and B series heads that were sold with one cabinet where 4 ohm cabs, the heads that were sold with 2 cabinets got the 16 ohm drivers wired in parallel for a 4 ohm load at the head. I believe the Frank era heads were never sold with 2 cabs but for the PA heads, so a 8 ohm cab would be the norm.

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [ampguy](#) on Tue, 04 Nov 2008 21:13:36 GMT

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My Cascade colored K200-4 was purchased with one cabinet holding two 15" Jensens. It is not a

Frank head and I believe that it is a 1968, although the speakers date to 1966. From the replys, I'm assuming that it came with one cabinet and is 8 ohm?? So are the K200 heads rated for a maximum of a 4 ohm load (in other words, designed for two 8 ohm cabs)? Thanks. Has anyone ever seen a manual for the K200-4 amps? AMPGUY.

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [stevem](#) on Wed, 05 Nov 2008 11:17:58 GMT
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I need to correct what I posted after finding my test of the output wattage/impedance of Kustom amps.

The frank era heads put out full wattage at 4 ohms, not 8 ohms.

This makes sense for back then when in the latter range of frank production when they changed to the latter style control knob, they also started offering the 3-15" cabs which were loaded with 16 ohm driver to get a 5.3 ohm load, the closest to 4 ohms you can get with 3 drivers.

From what I recall(40 years latter) of my first K200s manule it call for a minium load of 4 ohms. Maybe a board member who still has the instruction manule or remembers clearer than me can confirm this.

Ampguy, if you do a search thru old threads(like 2 years ago) you will find a post I did on the results of testing several different model Kustom heads for output wattage at different impedance loads.

Does your cab have the chrome plastic port tubes? if those Jensen model C15L speakers are indeed from 66 and the cab has port tubes than the Jensens are not original to the cabinet!

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [ampguy](#) on Wed, 05 Nov 2008 13:07:29 GMT
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The cabinet does have port tubes and is labeled a Jensen cabinet. The catalogs show Jensens were available. Why do you think that the Jensens are not original? Based on the heads serial number #29220, I am wondering whether the cabinet is original, but matched with a later production head??

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [LesS](#) on Wed, 05 Nov 2008 14:55:12 GMT
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What is the date code on your Jensen speakers?

Your K200B-4 amp SN 29220 was made approx 9/26/68 plus or minus two weeks.
Your head is a Kustom Electronics head (it does not say "by Ross" on the front panel).

Your speaker cab is probably a Ross cabinet – it would have aluminum ports (not shiny chrome)

and the badge would say "by Ross".

(Kustom Electronics cabinets had shiny chrome ports and the badge would usually say "by Kustom Electronics".)

Kustom by Ross speaker cabinets were made well after Ross amp heads production had ended in May 1968, and so it is perfectly normal to have a Kustom Electronics head with a Ross speaker cabinet.

Timeline

Ross amp heads production - 1966 to May 1968

Kustom by Ross speaker cabinets - 1966 to October 1969

Kustom Electronics speaker cabinets - November 1969 to December 1973

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [ampguy](#) on Wed, 05 Nov 2008 15:42:30 GMT

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My cabinet says Kustom Electronics and is a Jensen labeled cabinet. The speakers, however, have dates as follows: 220-0605 and 220-0611.(C15L-87684) Should I assume that this is a late cabinet matched with this head? Also, should I assume that the cabinet is a 4 Ohm total load or an 8 Ohm? Thanks, AMPGUY

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [LesS](#) on Wed, 05 Nov 2008 16:26:05 GMT

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Yes - your cabinet is newer than your head.

The codes do not say what the ohms are, so you need to measure each speaker with a multimeter.

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [chicagobill](#) on Wed, 05 Nov 2008 23:43:46 GMT

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Unless you have a Chinese made cabinet, your speakers are not original to the cab, so the date codes on the speakers (2006) will not help date the cab.

I don't know if the new Italian Jensens are available in 16 ohms, so my first guess would be that the cab is wired for 4 ohms. Of course you should check it as Les suggested.

Subject: Re: 1968 K200-4 with (2) 15" Jensens

Posted by [stevem](#) on Thu, 06 Nov 2008 17:20:15 GMT

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I was wondering about the his date codes also, but I have one of the new overseas made 2-15 cabs, and they do not come with the black frame large square magnet C15L Jensen drivers, they come with a green frame much smaller round magnet Jensen driver that is like a Jensen Mod serise 15-120 driver.

So like I said, I do not know whats up with those date codes if he has vintage Kustom era black frame square magnet C15L Jensens!

Subject: Re: 1968 K200-4 with (2) 15" Jensens

Posted by [ampguy](#) on Thu, 06 Nov 2008 20:31:13 GMT

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After more research, I have been advised that the speakers are from 1966. (Jensen (Italy) has not re-issued this speaker). Of interest they are the same speaker found in Leslies from the late 60's, so now I am wondering whether they are replacements to the original Jensens supplied with the Jensen/Kustom cabinet that I have. I do not know what model Jensen was originally supplied with Kustom cabs. One source states that they are usually 8 ohm speakers, another says 16 ohm.

Subject: Re: 1968 K200-4 with (2) 15" Jensens

Posted by [stevem](#) on Fri, 07 Nov 2008 11:20:17 GMT

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If they are the black frame C15L drivers than they are the correct Jensen MODEL that Kustom would have installed, but like Less posted they are not original to the cabinet.

You may have a late 1990`s cabinet, a couple of ways to tell would be as such.

1) reach in one of the port tubes so you can fell the mounting lip of one of the drivers, if you feel a stud sticking thru a mounting bolt, thats one of the features not found on the 90s cabinets as the 90s versions use wood screws to mount the drivers! Pretty shabby for a bass cabinet.

2) the speaker jack mounting plate on the lower rear of the cabinet is thin square plastic mounted in a dimond position to the back, and the jack is held down to the plate with a metal nut.

The latter cabinets also use a square plastic plate but is over twice the thickness, screwed down with its top and bottom parallel to the cabs top and bottom, and the jack is held to the jack plate with a plastic nut.

3) The latter cab has no black painted fiberglass insulation glued down in it, its just the bare paticle board, which is another point as the latter cabs are made from particle board and are quite heavy(86 pounds if I recall right)the vintage cabs are made of plywood.

Subject: Re: 1968 K200-4 with (2) 15" Jensens

Posted by [ampguy](#) on Fri, 07 Nov 2008 12:45:12 GMT

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Well, I checked the cabinet. It uses studs to mount the speakers. It has a thin square plastic

speaker mounting jack plate held down with a metal nut and the black insulation, so it appears to be a vintage cabinet. Two different speaker re-coners identified the speakers as 1966 black painted C15Ls, so perhaps the cabinet is a left over early Kustom Electronics cabinet matched with a K200-4 head from 1968?? I was surprised to learn that the speakers were the same as used in 60s Leslies. I wonder if the "L" stands for Leslie model?? The head and speaker cabinet are in the Cascade color.

Subject: Re: 1968 K200-4 with (2) 15" Jensens
Posted by [steven](#) on Fri, 07 Nov 2008 13:10:12 GMT
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No, Jensen model numbers go as such.

C stands for ceramic magnet, P would be a alinco magnet.

You know what the 15 means.

Jensens concert serise(the last letter of the model number) goes for S to L, as in your driver.

This range of letters goes from the most effcient (L) to lette S,

The range of volume diference across this range of models is HUGE!

A letter model L DRIVE is 3 times as loud as a model S.
