
Subject: ohms selector to mono input

Posted by [KC](#) on Tue, 07 Jun 2005 17:35:09 GMT

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hey there, I have a Marshall JCM-800 Lead Series head from the 80's (it's actually a 20th anniversary model... but that doesn't matter) and it doesn't have an automatic ohms selector. and on the mono input for my 1960 Lead series cab it says '4ohms' next to it, and then the stereo side says '16 ohms' I believe. On the back panel of the head I get the choice of 4 - 8 - or 16 ohms. If I'm running mono should I put the specified for ohms? And what is the 8 ohms for if there is no indication it will ever need it? I'm sorry if this is a silly question to some of you, but I just don't want to mess around with something as fragile as a vintage amp head and cab. Any advice would be much appreciated.

Subject: Re: ohms selector to mono input

Posted by [Wayne Parham](#) on Tue, 07 Jun 2005 19:38:54 GMT

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Match the speaker to the amp. Set the amp according to the impedance of the speaker. You can parallel two speakers to cut impedance in half, or put them in series to double them. This assumes speaker impedance is equal; If not calculate with the following equations: Series: $Z_T = Z_1 + Z_2 + Z_3 \dots$ Parallel: $Z_T = 1 / (1/Z_1 + 1/Z_2 + 1/Z_3 \dots)$ Where: Z_T is total impedance Z_1 is impedance of speaker 1, Z_2 is impedance of speaker 2 and so on. If you use four speakers, all the same impedance, connect two in series and then connect each series pair in parallel. The total
