Subject: crossover questions...
Posted by Larry Acklin on Wed, 08 Oct 2003 10:52:17 GMT
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I have a pair of JBL 2425J 1" exit drivers, 16 ohm. If I want to use them in a 2 or 3 way box, how can I reconfigure the crossover so it treats the drivers properly, but still presents 8 ohms to the amp?They would be bolted to CD horns, so the top octive compensation would be a plus.I know that the cap values change for a 16 ohm driver, but I'm a little hazy on what determines the nominal value the completed system presents to the amp. Yes, I know I could just tack a 16 ohm resistor across the driver, but that kills the sensitivity.Also, would it be possible to design a passive crossover (high-pass)that could do the same thing- present an 8 ohm load, but have the 16 ohm driver inside?ThanksLarry

Subject: crossover answers
Posted by Wayne Parham on Wed, 08 Oct 2003 19:40:58 GMT
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You answered your own question - You can put a resistance in shunt to set the load. If the compression horn needs padding and/or HF compensation, you can form a voltage divider and also be able to use it to set filter Q and high-frequency augmentation. Alternately, you can use a transformer for impedance matching. It's all a balancing act, of setting goal and priorities and building to suit.