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Subject: BAH stupid JBL recones!

Posted by [Adrian Mack](#) on Fri, 11 Jul 2003 03:23:09 GMT

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Hi guys, Apparently the stupid dealer doesn't have JBL 2235H recones anymore, so that's pretty annoying. Considering that a month ago they had them but not anymore! He said he has to talk with his dealer in Asia or something. That brings me to another point - how good are these aftermarket/non genuine JBL recones? I read a very interesting and somewhat funny thread on the High Efficiency forum regarding chinese recones, and apparently there was a mixed response. Some said they were fine, others said they were cheap, and I think that included Wayne too! Are these chinese recones "crap"? I was notified that although I can recone a 2225 basket to a 2235, a person on high eff forum said that the real 2235 basket has what's called a "mass loading ring" or something that accounts for 33% of its cone mass. I found this rather weird cuz the basket isn't the cone and only the cone makes the cone mass - duh :P But I don't know what JBL's done. Can anyone comment on this? Will the cone mass be ~33% lighter thus higher Fs, eff, etc if I recone the 2225 basket to a 2235? Today I came across another deal. A pair of ORIGINAL JBL 2225H's in perfect condition. 600 bux Australian dollars the pair. Very good price actually. If I reconed the baskets with chinese 2225 recones it would cost 30 bux more. So the originals would be the way to go in this case. If I reconed with the 2235 recones which are actually the ones I wanted (but may not be able to get ANYMORE) it would cost more, but it would be the one I wanted. It would also be a chinese recone though so it might be crap. I wonder which is the best way to go! The 2225's will work just the same for my application anyway, but they won't go 40Hz -3db point, only 65Hz. But at least they are original and not chinese, and also I have a sub anyway. How bad are the chinese recones? Also, what's the mass loading ring thing and will the T/S parameters be shifted if I put a 2235 recone in a 2225 basket which has no mass loading ring? Thanks for any help whatsoever! I think I'm gonna just give up speakers and start a stamp collection or something, this stuff has got my brain racing at ten thousand kilometers per hour since I started this idea. So if you don't wanna see me start a stamp collection, then please give me some help, otherwise I'll be posting pictures of stamps on this forum and not speakers, haha. Adrian

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Subject: Re: JBL recones - Contact these guys

Posted by [wunhuanglo](#) on Fri, 11 Jul 2003 08:03:23 GMT

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Good rep.

<http://www.speakerrepair.com/>

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Subject: Thanks... except that...

Posted by [Adrian Mack](#) on Fri, 11 Jul 2003 08:11:58 GMT

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Thanks for the suggestion. I actually live in Australia, and I would prefer to buy stuff from my own country so I don't have to pay 10 times the shipping price :P Can anybody give me any advice on that mass loading ring though - and if it does affect driver parameters in the way described in my last post. Any tips on the quality of Chinese cones also welcome/wanted!:-)

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**Subject: Mass loading ring - explanation (an attempt, anyway)**

Posted by [mollecon](#) on Fri, 11 Jul 2003 09:36:41 GMT

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Hi Adrian! Looks like the road to Sound Heaven is paved with banana peels, huh? ;-)

The explanation on the mass loading ring thing, in part stolen from memory from Martin Colloms "High Performance Loudspeakers": Suppose you have developed a diaphragm which shows a given, wanted behavior over its frequency area - we are here talking drivers used pretty high up in frequency their size taken into consideration, large bass/ midrange drivers really. And suppose you want to increase the drivers moving mass (for example, to make it able to work lower in frequency in a given box volume). Now, just adding mass to the diaphragm as a whole will alter its HF behavior, which we already have 'in place'. So instead, you increase the moving mass by attaching a ring (with the wanted mass increase) to the diaphragm, usually at the 'neck', where voice coil former & diaphragm is attached to each other. Placed here, the ring will have as little influence on the diaphragm's behaviour as a whole as possible. This way, you alter the unit's low frequency characteristics without destroying its good behaviour in its HF range. In some cases, manufacturers have made additional use of the mass ring by placing it strategically on the diaphragm &/or gluing it with a 'soft' glue, thereby controlling unwanted resonances/standing wave modes. I don't think that's the case with JBL, though. If the manufacturer does nothing with the suspension after adding the mass control ring, only two T/S parameters are changed; The  $F_s$ , which will go down, & the  $Q_t$ , which will go up - the  $V_{as}$  should stay the same. Hope this helps, Adrian - I'm sorry I can't help you with the rest of your questions :-)

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**Subject: Re: Mass loading ring - explanation (an attempt, anyway)**

Posted by [Adrian Mack](#) on Fri, 11 Jul 2003 10:07:42 GMT

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Hey Thanks for the reply. I think I understand it - the mass ring is placed in the neck of the diaphragm, so that LF gets deeper and HF isn't sacrificed. Is this it? Are these rings placed inside the neck, or could I say it's like being placed in the voice coil former? If so, then it's not a part of the basket, and that would mean the 2225 and 2235 baskets are exactly the same, because the mass ring is placed on the diaphragm. So if I buy a 2235 cone kit, it should have these mass loading rings? Or at least have the mass increased in a similar way? Thanks! Adrian

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Subject: Re: Mass loading ring - explanation (an attempt, anyway)

Posted by [mollecon](#) on Fri, 11 Jul 2003 11:34:13 GMT

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Yup, you got it right - increasing LF response without sacrificing HF (nicely put btw., why didn't I think of that?). The ring is usually placed on the diaphragm (at the backside, I think) right where it's attached to the voicecoil former. That's where it can be placed with the least possible influence on the HF response. And no, it's NOT part of the basket, it's a part of the moving system.

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Subject: I forgot...

Posted by [mollecon](#) on Fri, 11 Jul 2003 11:51:19 GMT

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Yes, if you wanna go deeper bass wise, you'll need the mass increase - & the ring provides the best solution in this regard. It is, however, possible to get the increased mass in other ways - for example by gluing it to the centerdome of the diaphragm. But remember, this will change the units HF behaviour - the gluing solution I mean! But as far as I recall, you cross-over pretty low, so I doubt it will be a problem - but you do need to know how much mass is needed. And don't forget, the overall efficiency of the driver will be reduced - the usual battle between LF extension & efficiency. Having not tried the trick with gluing added mass to the centerdome myself, I hope somebody else will chime in about experiences in this regard. Oh & I need to remind you, gluing things to the drivers centerdome will increase it's moving mass, but NOT it's re-sale value ;-)

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Subject: Then try these guys...

Posted by [wunhuanglo](#) on Fri, 11 Jul 2003 17:52:22 GMT

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<http://www.aftermarketdiaphragms.com/jblafreckit.html>

<http://www.aftermarketdiaphragms.com/jblafreckit.html>

Subject: Re: Mass loading ring - explanation (an attempt, anyway)

Posted by [Adrian Mack](#) on Sat, 12 Jul 2003 11:40:47 GMT

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Thanks! I've found that if I dont use the mass loading ring at all, then reconing the 2225 basket with a 2235 actually makes a 2234 lol. And the 2234 has 23Hz Fs, so thats not bad considering the 2235 has 20Hz fs. But I think I'll go for the completely assembled 2225's instead because they have original recones, even though its 2225, I think I'll be happy still. I found a place which has genuine recones here in Australia, but they are \$395 each and the non-genuine is just \$200 each. Almost double the price. So I think its wise if I just go for the pair of 2225's all assembled which I luckily found, and they use original cones. Thanks again!Adrian

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Subject: Re: BAH stupid JBL recones!

Posted by [jandregg](#) on Tue, 15 Jul 2003 16:25:57 GMT

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Go to lansing heritage for info on reconing jbl. Mass control ring is part of 2235 reconing kit. Follow the lins link for complete info.  
<http://www.audioheritage.org/vbulletin/showthread.php?s=&threadid=414>

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