Subject: Fostex 206 magenet safe distance from tube amp, HELP
Posted by Peter Swartz on Thu, 14 Apr 2005 05:54:49 GMT
View Forum Message <> Reply to Message

I know this sounds crazy but I'm designing a 45 liter pair of speakers to mount on the end of my waterbed and.... I want to pirch my M500 mono blocks each on top of each speaker. crazy? The cabinets are going to be made of one inch MDF so with alittle padding uner the amps I'm not very concerned about vibrations, or should I be? But what about the Fostex206 magenet in the upper part of the cabinet? How strong are they? I probably should have ordered the sheilded version? As far as the tube amp is concerned, which end of the amp is more sensitive to an external magnetic field? The end with the tubes of the end with the transformers?I figure that with my current design the magenet of the Fostex fe-206 will be within 8 inches of the MJ300B tubes? Is this a problem?I could of course buy some Mu metal to place under the amp, but do you think this would be needed? Thanks for your input, Pete

Subject: Re: Fostex 206 magenet safe distance from tube amp, HELP
Posted by zobsky on Fri, 15 Apr 2005 04:47:12 GMT
View Forum Message <> Reply to Message

i wouldn't worry about speaker magnets affecting amps

Subject: Actually that might be an interesting experiment
Posted by wunhuanglo on Fri, 15 Apr 2005 11:01:53 GMT
View Forum Message <> Reply to Message

I would think it's possible to influence the plate current with a magnetic field - after all you can use a magnetic field as an accelerator.Magnitude and direction are the issues of course, but it might be fun to play with.Probably a good indicator would be how close you can get the top of the speaker to a computer monitor before you see distortion - if you can touch the monitor with the top of the speaker without a problem then it would seem reasonable to assume you wouldn't be deflecting electrons in the amp's tubes. Not that would harm anything in any event.

Subject: Re: Fostex 206 magenet safe distance from tube amp, HELP
Posted by GM on Fri, 15 Apr 2005 15:10:49 GMT
View Forum Message <> Reply to Message

Greets!I doubt it's an issue, I mean I never noticed any audible difference that I could attribute this

to when subbing a ferrite magnet motor driver in a tube guitar amp, but adding a 10 ga cold rolled steel (CRS) plate (lots cheaper than Mu metal) between them will solve any potential problems, and if bonded to the top of the cab, increases its rigidity in one of the places where it's most needed. GM

Subject: Re: Actually that might be an interesting experiment
Posted by roncla on Sun, 17 Apr 2005 14:38:57 GMT
View Forum Message <> Reply to Message

after all you can use a magnetic field as an acceleratorHaving worked with several linear accelerators i can vouch for that. However the placement and field strengths are very difficult calculations(sometimes Kentucky windage) to get it working correctly. Now a vacumme tube based on a linear accelerator might be an interesting app. Then again you would have to step down from around five plus MEV and have shielding due to radiation.(amp sounded fanstastic, but the listener died due to overexposure)ron

---