

Good Sound from your Amp

Obviously choosing an amplifier or a guitar comes down to the sound that it makes and whether you like it or not. A 10" speaker has often been preferred by bass players because it gives more definition and punch. Naturally a bigger diaphragm like the 12" moves more air and has a bigger feel about it.

One point that is missing from an explanation of speakers relating to guitar and bass amps and PA systems, is that they are 'longer-throw' speakers. Contrary to the audio speaker which you can get clear definition through the whole spectrum within a few inches of the speaker, 'longer-throw' speakers do not work in that fashion. As the terminology suggests, 'longer-throw' speakers, throw the sound so that's you hear the full spectrum of sound from about 40 foot (12 meters) away. When you are close up to the speaker, it consists of a centre trebles spike surrounded by the lower spectrum coming from the outer diaphragm of the speaker. Therefore you never hear the truth sound of a speaker when you are close by. In fact the person that hears the truth sound of your speaker is the person on the other side of a big room or field .

About 3 years ago one of my customers who is the guitar teacher and gigging musician, was complaining about his amplifier and not sounding right - looking to buy yet another amp. His friends said I don't know what your problem is - it sounded fine to me and he had been to all of his gigs.

Then the guitar teacher found something on the internet called Deeflexx. This Deeflexx is a specially designed piece of plastic using two sides of a pyramid in front of the speaker in order to blend the sound. You can see the effect that it has in this link here. See below.

So after hearing my music teacher customer at a local gig, I was amazed at the difference this piece of kit made. I then looked at my own amp situation. I always felt that I was uncomfortable with the sound from my 2 x 12" speakers but did not know why. With a little more digging I found that Joe Bonamassa actually plays on stage with a wall of Perspex sheet in front of his amplifiers. Rumour had it, that this was to prevent the people in the front row from a deafening loud sound from his amps. The real reason was that he could not hear the sound from his amps properly because he was so close to them on stage. By putting the Perspex screen in front of the amplifier and speaker, the 'longer-throw' speakers hits the Perspex and blends the sound. Therefore, Joe Bonamassa actually hears the same sound that the audience hear.

So after seeing Joe Bonamassa's setup, I decided that I would do a rearrangement of my own amp. I took the 2 x 12 speakers and turn them around so that they were 3 inches away from the wall in the bedroom. I then refitted the amp head on top. The speaker cabinets are sealed units and now I get a pleasant blend of sound being blended as it bounces off the wall!

Hopefully this information may help you look at the sound of speakers in a different light.

Deeflexx H!1 Edition V2.0

★★★★★ 3



Deeflexx

Utube - man shows amp on lazy Susan at @ about 48 seconds normal amp and 1 .58 min in https://www.youtube.com/watch?v=u_BaO7Mg3oQ

Product found here <https://www.hoovi.at/deeflexx-2/what-is-deeflexx/?lang=en>



Joe Bonamassa JB-4 Amp Shield on uTube

Joe Bonamassa shares some info about his ClearSonic Amp Shield. His signature model shield, the JB-4, is now available. Consisting of (4) 18" wide x 34" high...

<https://www.youtube.com/watch?v=jcFLOYMk6rY>

As a follow up to the amp sounds - I also found a chap using what is in effect a speaker centre cone pointed at the speaker as seen on the Weber beam - looks like this could be made and tried out.

Further research shows a chap with a Weber Beam Blocker and explains that Stevie Ray Vaughan used to use ducttape across the front of the cone to reduce the 'Treble Spike'.



Weber Beam Blocker

Rick Fass Musicians Workshop Sound Dispersion using a Weber Beam Blocker

<https://www.youtube.com/watch?v=Aetel0G-nMU>

Rick Fass Musicians Workshop Sound Dispersion using a Weber Beam Blocker

In this segment, Rick talks about sound dispersment from the amplifier. Showing the benefits of the Beam Blocker and how to install the Beam Blocker in the amplifier. Rick takes tone a step further and modifies the amp with changing out the stock celestion speaker and a simple wire change that makes the amp sing! Rick Fass is a well-known local ...