
Subject: the begin

Posted by [j.luis cruz](#) . on Mon, 27 Feb 2006 12:59:09 GMT

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Hy Wayne . why do you chose to work with pro driver instead hi-fi drivers to pursue hi-fi .
thanks

Subject: Re: the begin

Posted by [Wayne Parham](#) on Mon, 27 Feb 2006 15:05:43 GMT

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Labels aren't important to me, performance is. The drivers I choose are those that provide the highest level of fidelity and overall performance.

Subject: Pro Drivers.

Posted by [Shane](#) on Mon, 27 Feb 2006 18:10:38 GMT

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I would think also, depending on what kind of music you listen too, most live music, especially rock for instance, is produced through pro drivers. People are so concerned with reproducing "live, realistic" music, yet most electric music is produced through non-hifi equipment. ???

Subject: Re: Pro Drivers.

Posted by [Wayne Parham](#) on Mon, 27 Feb 2006 19:11:07 GMT

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I think that's true. The best venues use very good equipment, much better than what most people have in their homes. There are various quality levels in both markets, pro sound and consumer electronics. In either case, you get what you pay for.

Subject: Re: Pro Drivers.

Posted by [Crazy Dave](#) on Wed, 01 Mar 2006 19:46:00 GMT

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I would add that HE pro driver can do a very good job with classical music to (when properly set up, of course). They do very well at getting the dynamics a scale of the orchestra.Dave

Subject: Re: Pro Drivers.

Posted by [Wayne Parham](#) on Wed, 01 Mar 2006 21:51:25 GMT

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I agree. Most of the very best drivers are pro drivers. There are some good hifi drivers too, but the better they become, the more like pro drivers they are. At the high end of the scale, the distinction becomes blurred.

Subject: Re: Pro Drivers.

Posted by [j.luis cruz .](#) on Wed, 01 Mar 2006 23:03:47 GMT

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So a piezo will sound better that a dome tweeter with its pro heritage .

Subject: Re: Pro Drivers.

Posted by [Wayne Parham](#) on Thu, 02 Mar 2006 01:21:47 GMT

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Some of the old Motorola (later CTS) units sounded pretty good to me for the money. I really liked them. But I haven't found any of the others I could live with.

Subject: Re: Pro Drivers-instrument speakers

Posted by [Shane](#) on Thu, 02 Mar 2006 02:35:41 GMT

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For me and rock guitar, the old Marshall cabs with Greenbacks in them sound sooooo nice. I think part of the problem between the relationship between hi-fi speakers and pro sound is that in my experience, unless you're PA'ing a system, different speakers definitely sound better with certain instruments. I personally like the Greenbacks with guitars and Peavey Black Widows with bass guitar. I have no idea how they would sound trying to reproduce the full spectrum one might

need for hifi though.

Subject: Re: Pro Drivers-instrument speakers - Sensitivity

Posted by [dB](#) on Thu, 02 Mar 2006 07:36:34 GMT

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The big problem I had (20 years ago and now) was that most hi-fi's are only 80 something dB's (my small tannoy's are only 86dB's). My 'hi-fi' (home buit 20 y.a.) and still working, read speakers, is 100+dB's. I can then move volume, treble and bass up and down, and definitely I can hear HF's (105 dBs) very well like in the Disco. I have more of a 'Saturday Night Fever - dance party' at home than a THX 'Home-Theater'. (Who care's?)

Subject: Re: Pro Drivers-instrument speakers

Posted by [Spinjack](#) on Thu, 02 Mar 2006 16:06:40 GMT

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That was my worry getting into a speaker system with pro drivers. You have different drivers for guitar, voice, bass, etc. Could these pro drivers really make for good full range general purpose home speaker systems? Apparently they do, but it is somewhat counter intuitive.

Subject: Backline vs. FOH

Posted by [Wayne Parham](#) on Thu, 02 Mar 2006 16:17:53 GMT

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Don't miss the distinction between musical instrument speakers and those used primarily for sound reinforcement. Both are prosound drivers, but one is for backline applications and the other for front-of-house sound, for the audience. Backline gear is voiced for the instrument, and is colored in whatever way suits the musician. Guitar speakers are colored, they're part of the instrument, responsible in part for the musician's sound. But the speakers made for sound reinforcement are designed to be uncolored, true to the original signal. These kinds of drivers provide high fidelity sound, high output SPL and they are durable.

Subject: Re: Pro Drivers-instrument speakers - Sensitivity

Posted by [Wayne Parham](#) on Thu, 02 Mar 2006 16:20:26 GMT

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I agree. I don't like speakers with sensitivity less than 93dB or so. They just don't have the dynamic range, and that's a big part of the picture. While some wouldn't consider dynamic range to be a part of the definition of "high-fidelity", I definitely do.

Subject: Re: Backline vs. FOH
Posted by [Shane](#) on Thu, 02 Mar 2006 22:43:01 GMT
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Yah- what Wayne said.

Subject: Re:- Sensitivity
Posted by [Shane](#) on Thu, 02 Mar 2006 22:45:39 GMT
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I they let you spend more money trying out the flea powered amps, huh Wayne? Man I need to get on to buying the parts Pak and Damir suggested for that 6EM7 amp and put it to use on the Towers!

Subject: Tube amps
Posted by [Wayne Parham](#) on Thu, 02 Mar 2006 23:03:28 GMT
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I'm kind of itching to build one of the Group Build creations too. But I still love the Stoetkit too, so I'd like to remind you about it. Great looking chassis, great sound. Not a lot of cash either.

Subject: Re: Tube amps
Posted by [Shane](#) on Thu, 02 Mar 2006 23:41:20 GMT
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Bring it GPAF so I can listen again, would you please?

Subject: Re: Pro Drivers-instrument speakers - Sensitivity

Posted by [dB](#) on Fri, 03 Mar 2006 00:08:42 GMT

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I include a photo of my 100dB (20 years old DIY) speakers. Yes, they are painted white from day one.
<http://img378.imageshack.us/img378/8161/hiluson5jb.th.jpg>A disco speaker, actually four of these at a Disco in Estoril (Portugal).
Disco speaker <http://img340.imageshack.us/img340/58/2001speaker1zl.th.jpg>
Disco ambience <http://img297.imageshack.us/img297/4956/2001disco7no.th.jpg>

Subject: Sweet!

Posted by [Wayne Parham](#) on Fri, 03 Mar 2006 03:24:30 GMT

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Looks great! It looks like a dual-driver back horn (scoop) and maybe a midhorn. Is that what you have? What drivers are used?

Subject: Re: Tube amps

Posted by [Wayne Parham](#) on Fri, 03 Mar 2006 03:25:49 GMT

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The Stoetkit will be there for sure. They aren't sponsors or anything, but I still just really like that amp.

Subject: Re: Sweet!

Posted by [dB](#) on Fri, 03 Mar 2006 11:39:05 GMT

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In my white speaker image you can find for the bass a 12" HH Acoustics DC100LW, 2" voice coil and magnesium alloy chassis, 100W $F_s=60\text{Hz}$ 99dB SPL (50-13000Hz Wide Range P.A., Monitor, Disco). This bass horn is a modified two side exponential horn with a mouth diameter (equivalent circle) of 22"(55.5cm) or 26.4"(67cm) x 14.2"(36cm) square. Mid is a compression driver Beyma AL-CP40, 1.75" voice coil, 60W 108dB SPL (800-7000Hz). HF compression tweeter is a Beyma CP10 w/mylar diaphragm and aluminium voice coil support, 10W 105dB SPL (5000-20000Hz). X-over is a from same factory of the shelf not tested but taken for good one day will see high power good components crossover. On the Disco speaker images you can notice two JBL 2405H Ultra-highs (or similar) on the right of the speaker and a super-duper acoustical lens

(slant-plate type) spread on top. Besides the 4 mains there are 2 more subs. But I didn't find an increase in quality output when they bought them. I don't know the factors or specs for all the set-up.Regards

Subject: Re: Pro Drivers-instrument speakers - Sensitivity
Posted by [Crazy Dave](#) on Sun, 05 Mar 2006 16:04:56 GMT
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It does seem like 93-95db is the turning point and they seem to sound better, even when they are not playing that loud. I think dynamic compression is part of it. Inefficient systems with big amps can sound very good but they always sound like they are working for it. A HE system can sound effortless. Another reason why both pro and vintage systems can sound so good is they generally don't make the amplifier jump through so many hoops. Impedance doesn't drop real low and some have low zmax. I am currently using 8-ohm JBL Lancer 77's and getting quite good sound through a Yamaha M-4 120 watt amp. I haven't forgotten PiSpeakers and now have access to some very inexpensive JBL drivers. I'll keep you posted!Dave
