
Subject: Prosound electronic crossovers.
Posted by [Russellc](#) on Thu, 14 Oct 2004 20:00:17 GMT
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Hello, I have looked at several "pro sound" type crossovers, and have noticed that unlike home stereo type electronic crossovers, they utilize a different style of hookups, for balanced setups I'm assuming, instead of the traditional rca jacks. Short of getting all balanced pro components, (which will not be happening) is there any way to utilize these crossovers with my components which use standard RCA jacks? as you can probably tell from the text, I have never used pro type components which don't use RCA, and have no need for balanced components.
Russellc

Subject: Re: Prosound electronic crossovers.
Posted by [Wayne Parham](#) on Thu, 14 Oct 2004 20:59:03 GMT
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Balanced interconnects are much better than unbalanced, especially when long runs are required. But you can use an isolation transformer to connect a device that uses balanced connections to another that has unbalanced connections. You can also wire them together directly, but you should be careful not to introduce a ground loop. You'll know if you do, 'cause it'll hum very loudly. Rane has a really good little interface article that discusses this in more detail.

Subject: Re: Prosound electronic crossovers.
Posted by [Russellc](#) on Thu, 14 Oct 2004 23:32:18 GMT
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Thanks for the info wayne, it is much appreciated. My equipment is all tube and is not setup for balanced in/out puts. So I would need the converter box, balanced interconnects, etc. Being a minimalist, the idea of converter boxes and such in the signal path doesn't sound like it would be worth the trouble. I'll wait to find or build a regular "hifi" unit. Most likely, solid state...nuts!
Using passive X-O for now, Russellc

Subject: Re: Prosound electronic crossovers.
Posted by [GM](#) on Fri, 15 Oct 2004 03:04:22 GMT
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:^)

Tube active XOs

Subject: Re: Prosound electronic crossovers.
Posted by [ToFo](#) on Fri, 15 Oct 2004 03:44:32 GMT
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Hi Russell, I have had almost no issues running "pro"/balanced crossovers with all of my consumer gear. DJ's have always had this issue of pro and home gear coming together and any decent shop will be happy to advise and even make or modify cables if you don't want to D.I.Y. Some gear will need a transformer, especially XLR equipped units, but then some with TRS print "Bal/unbal" right on the plugs. DBX model 223 has bal/unbal ins and outs. (this is not an endorsement, {though I like the brand} as I haven't tried it, but my crossover is not available unbal anymore) Do NOT use phono to 1/4" adapters. If you ever get a loose adapter you have never heard 60 cycles so loud in your life. There are some serious high quality 1/4" plugs out there, just solder 'em on one end of your RCA cable. Ask around the music shops and if you have clubs or a college town nearby you can usually find rentals to test drive before you get comitted. Have fun! Thomas

Subject: Re: Prosound electronic crossovers.
Posted by [GarMan](#) on Fri, 15 Oct 2004 12:31:44 GMT
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Russell, A balanced line system doesn't have to be solid state. Tube systems can be built in balanced configuration too. Gar.

Subject: Re: Prosound electronic crossovers.
Posted by [Manualblock](#) on Fri, 15 Oct 2004 19:45:05 GMT
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They cost a lot. Have you tried Steve Bench's site, I believe he still sells the PC board for his tube two-way xover. Reasonable, you just need a power supply which is fairly simple here since there is not a huge demand for power.

Subject: Re: Prosound electronic crossovers.
Posted by [Russell](#) on Fri, 15 Oct 2004 20:11:03 GMT

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Yes, I am aware of that, its just thay mine is already built and it isn't balanced, and its all I have to work with, thats all! Oh well...
Russellc

Subject: Re: Prosound electronic crossovers.
Posted by [Russellc](#) on Fri, 15 Oct 2004 20:26:06 GMT
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Yes, I have seen the bench site it is very interesting. Is this the tubeed (6922) X-over? There is another site I have bookmarked somewhere from a guy that sells sort of a kit, basically it consists of enough chips for what ever you need, 2,3,or 4 way, compensation, Q adjustment, volume etc. You also get a board of sorts, not a finished circuit board, more like a bread board/perf board sort of deal. And you can order parts for the power supply. the rest is up to the builder. It is solid state, like the marchand stuff (Marchand does have a tube Xover, but not cheap) which is also interesting. Several different units, from assembled units, complete kits, partial kits, and blank or stuffed boards. I have seen pro type X-overs on ebay for fairly cheap (used) and just wondered about them in HiFi applications. Oh well, time to heat up the solder gun and make some decisions. And, I'll need another set of cables...about 20 to 25 feet...braided cat 5.The idea of doing that wire weaving nightmare again is frightning indeed scarey. Thanks, everyone for the info and ideas,
Russellc

Subject: Triphon Crossover
Posted by [Wayne Parham](#) on Fri, 15 Oct 2004 20:45:39 GMT
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Selectronic has an active crossover kit called the Triphon that might be worth looking into as well. Talk to Eric Mainardi over on the Selectronic forum and maybe he can arrange a demo unit or something.

Subject: Re: Triphon Crossover
Posted by [Russellc](#) on Fri, 15 Oct 2004 23:31:57 GMT
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I notice that the price is 979.00 euros for the kit. Anyone know off hand how much a euro is in U.S. currency? I was thinking it was well over a dollar or two, but I'm probably confusing with a English Pound.
Russellc

Subject: Re: Triphon Crossover
Posted by [Manualblock](#) on Sat, 16 Oct 2004 00:03:38 GMT
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That's almost 1150.00 Right now I am using my old Audion 2 way SS crossover on the Altecs with the Chip amps. I know you were interested in the amps so let me say they sound damned good this way. I don't see why you could'nt build a SS xover, Is there a scematic on the Elliots audio site, I believe so, and I think he provides a PC board but I am not sure on that. Steve Bench still offers the 6922 boards, I just checked. Boy these chip amps are fun.

Subject: Re: Triphon Crossover
Posted by [GM](#) on Sat, 16 Oct 2004 02:33:27 GMT
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:^)
personal currency calculator

Subject: Re: Prosound electronic crossovers.
Posted by [GM](#) on Sat, 16 Oct 2004 02:35:07 GMT
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No, I ditched tubes back in '71.GM

Subject: Re: Triphon Crossover
Posted by [Russellc](#) on Sat, 16 Oct 2004 13:25:28 GMT
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Thanks for the info guys, I,m afraid \$1100.00 isn't in my crossover budget. I'll be looking for the solid state varieties, I am emailing the fellow refered to on bench's site about the existence of any more boards. I'll check elliot's site as well. The currency calculator is quite handy as well!
Russellc

Subject: Re: Triphon Crossover
Posted by [Chris R.](#) on Sat, 16 Oct 2004 14:20:40 GMT

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I built an 18db, 1200Hz fixed crossover to use with the JBL3766's (or was that 3677's) for rather cheap. I used schematics bits from The OpAmp Cookbook by Jung. I stuck an active balance control on each the inputs so I make the efficiency (high, low) adjustments. It's hooked up to a Klipsch 4.1 amp out of a computer speaker set. That give me another high/low adjustment. The whole thing isn't half bad. The amp is pretty cheap, so its noisy, but its all in the garage, so its a damn nice shop system. Chris

Subject: Re: Triphon Crossover
Posted by [GM](#) on Sun, 17 Oct 2004 04:54:08 GMT
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When \$\$ are an issue, line level passive is a cheap way to get into multi-amping:GM
PLLXO
