Subject: Re: Headphone listening
Posted by Shane on Mon, 16 Apr 2012 04:14:32 GMT
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The Lite version will definitely give you a taste of Xfeed, but it doesn't compare to the versatility of the Corda Cross-1. AFAIK, the Corda was the best passive Xfeed made. You can build it p2p like I did, but I think I just lucked out not having to shield everything. I've got the schematics and the layout for the DIY and the manual for the original as well. Probably have a BOM for the PCB version as well somewhere.

Here is how Jan described the Cross-1 that was built into his headamp (same as the stand-alone version of the cross though):

In principle, digital soundprocessors can simulate all the mechanisms for directional listening but the results are, thus far, not very satisfactory. In particular, pinnae-reflections are very complex and listener-specific and impossible to simulate accurately.

Fortunately, the mean directional information is provided by the time delay and level of attenuation of the sounds that reaches the opposite ear. The CORDA HEADAMP can electronically simulate this process and, with appropriate attenuation and delay, add some of the right audiosignal to the left channel and vice -versa. This considerably reduces the adverse symptoms of headphone listening.

A unique feature of the crossfeed circuitry of the CORDA HEADAMP is that it "recognizes" the virtual positions of the instruments and singers in a recording. The sound of an instrument in the middle of the soundstage will be equally present in both audio-channels and isn't given any crossfeed. A crossfeed signal is only generated for instruments that are not placed at the center. The more off-center the instrument is placed, the stronger the crossfeed and the longer its delay. This feature is called "natural crossfeed".