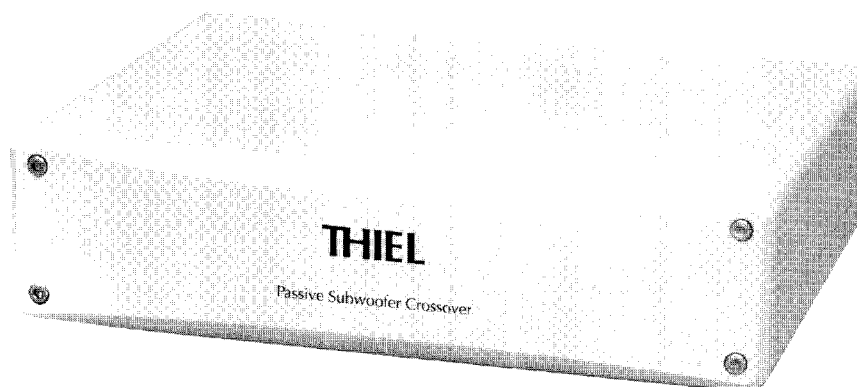


THIEL

Passive Subwoofer Crossovers

PXO2 PXO5

Owner Information



Thank you for purchasing a THIEL passive subwoofer crossover. You are welcome to contact our Customer Service department with any questions or for help in setting up your system. Our contact information is:
Tel: 859-254-9427 Fax: 859-254-0075 E-mail: service@thielaudio.com

THIEL Passive Subwoofer Crossovers

The THIEL passive subwoofer crossovers allow your THIEL subwoofer to reproduce, in addition to the subwoofer signal, the low frequency part of main channel signals that your main speakers cannot reproduce. Use of these crossovers provide very good performance for music and video systems when the main speakers play sufficiently loud but do not have extended, deep bass response. These crossovers allow the subwoofer to *augment* the main speakers in the precise way that will enable the combination of main speaker and subwoofer to produce perfectly balanced and blended sound, with high output bass capability to below 20 Hz.

The two channel PXO2 unit allows the subwoofer to reproduce the bass of 2 channels, usually the left and right. The five channel PXO5 unit allows the subwoofer to reproduce the bass of 5 channels.

Two passive crossovers can be used with two subwoofers to provide stereo bass reproduction.

These dedicated passive crossovers match a THIEL subwoofer to particular models of THIEL speakers. The model that your crossover is designed to be used with is marked on the unit's rear panel. The PXO5 can accommodate different models of front, rear and center speakers.

These crossovers do not redirect bass energy away from the main speakers and so the main speakers will not play any louder than they otherwise would while receiving a full spectrum signal.

Hookup

The Crossover receives its inputs from the outputs of the power amplifier driving the main speakers. While leaving the existing speaker cables in place, connect additional speaker wires from the power amplifier output terminals to the respective speaker level input terminals on the passive crossover unit. Be careful to connect the positive amplifier outputs to the positive crossover inputs. The cables used for these connections can be small since no power is being transferred.

The crossover's output is supplied to the subwoofer by connecting a balanced XLR type interconnect cable from the crossover unit's output to the subwoofer's Normal Input. An additional RCA interconnect cable is connected from the processor's subwoofer output jack to the subwoofer's LFE Input.

If two subwoofers are used for stereo subwoofer operation, the subwoofer for each channel needs to connect from its own passive crossover which is then supplied a signal from only those channels of which you wish that subwoofer to reproduce the bass range.

Setting the Surround Processor

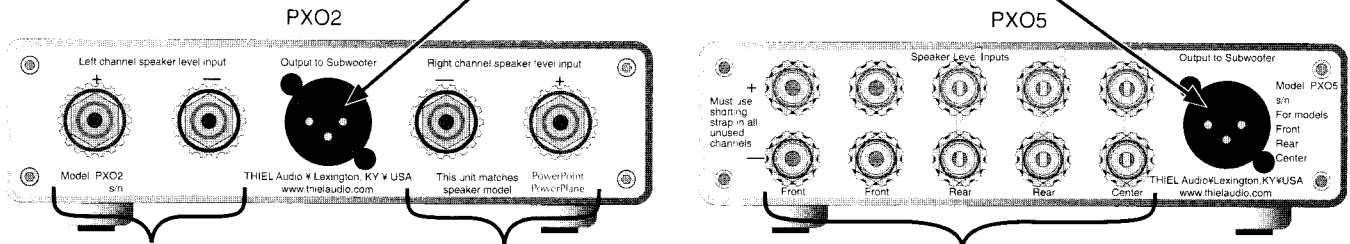
Tell the surround processor that you have a subwoofer. Also, the processor should be instructed for each channel whether to deliver the bass to that channel's speaker or to the subwoofer instead. This is often done by telling the processor that the speaker is "large" or "small", respectively.

If the passive crossover is not connected from the amplifier's output of a particular channel, then instruct the processor as you normally would, which usually is to tell the processor that the speaker is "small" if the bass response of the speaker is not extended, and "large" if it is.

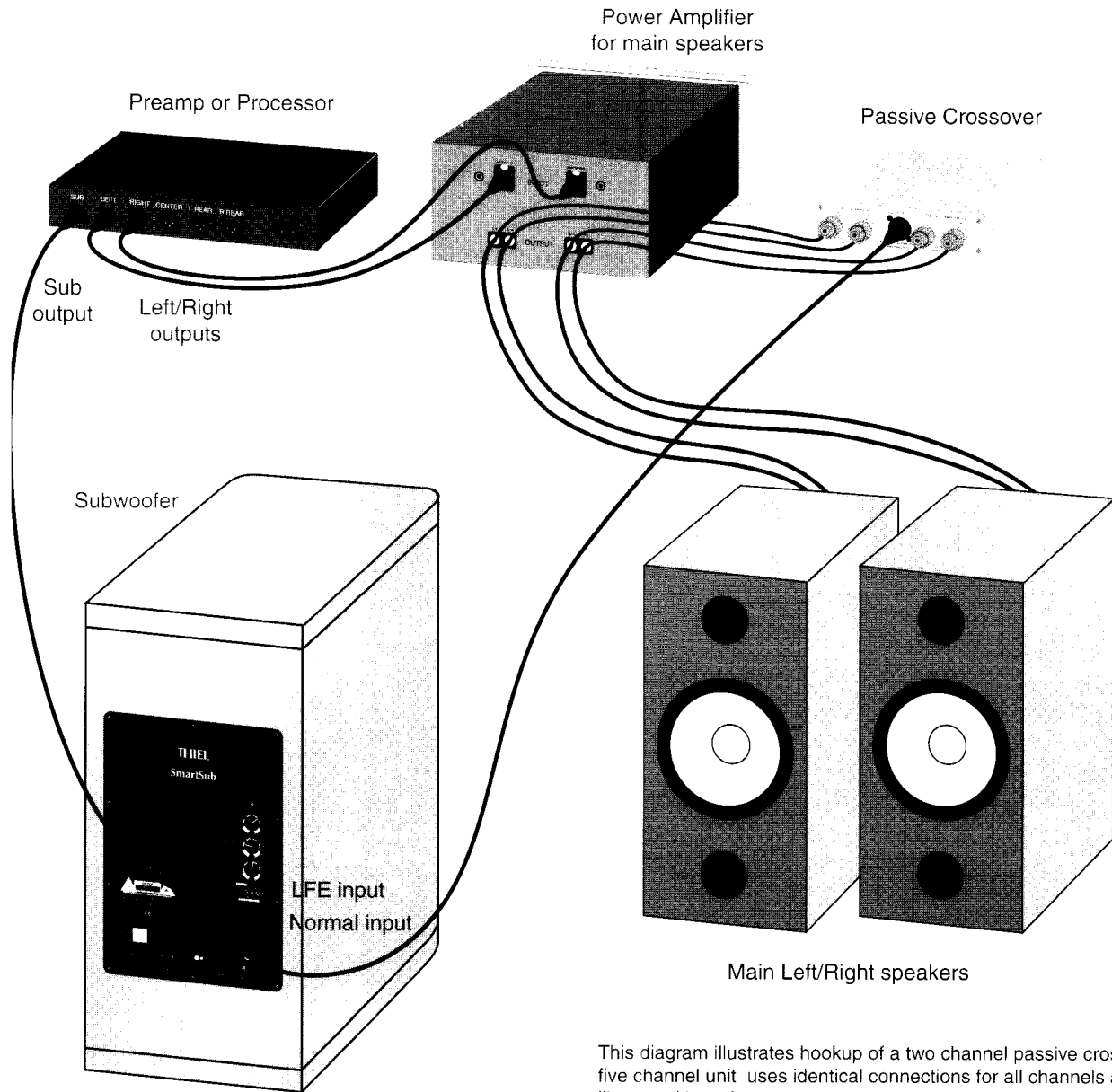
If the passive crossover IS connected from the amplifier's output of a particular channel, then tell the processor that speaker is "large", even if it is not. This is necessary so the bass will be supplied to the passive crossover and passed to the subwoofer.

System connections

A balanced XLR type interconnect cable is connected from this output to the subwoofer's normal input.



Input wires are connected from the main speakers' power amplifier outputs to these input terminals. Observe + and - polarity markings. Shorting straps must be used on unconnected inputs.



This diagram illustrates hookup of a two channel passive crossover. A five channel unit uses identical connections for all channels as is illustrated here for two.

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1026 Nandino Blvd., Lexington, KY 40511 USA

Tel: 859-254-9427 • Fax: 859-254-0075 • Email: mail@thielaudio.com • www.thielaudio.com