AUDIOPLEX™ TECHNOLOGY

BALANCED AUDIO CONTROLLER INSTALLATION MANUAL

SPECIFICATIONS

Front Panel ON/OFF Switch with LED power indicator.

Two mono inputs (A&B) and eight mono outputs (1-8), may be configured as one stereo in, four stereo out.

1/4" stereo phone jacks in and out; these accommodate balanced and unbalanced signals.

Channel A or Channel B may be directed to each output via the front panel switches.

Eight independent outputs with individual gain controls.

16 VAC UL rated Power Supply included.

One rack height- 17"W x 1.75"H x 4.5"D.

USES

The BAC is used as a stereo line level source distributor to four different locations in stereo or as a mono line level source distributor to eight different locations in mono. Some common examples of this would be to;

1. Split and buffer the output of a CD player to four different Receiver/Amplifiers.

2. Distribute line level signals long distances throughout a house or building. Doing this in balanced mode is the preferred method for noise rejection.

3. Send a source balanced or unbalanced out to four locations with a mixture of input types; i.e. two amplifiers with XLR balanced inputs and two amplifiers with RCA unbalanced inputs.

Please see diagrams on following pages for reference

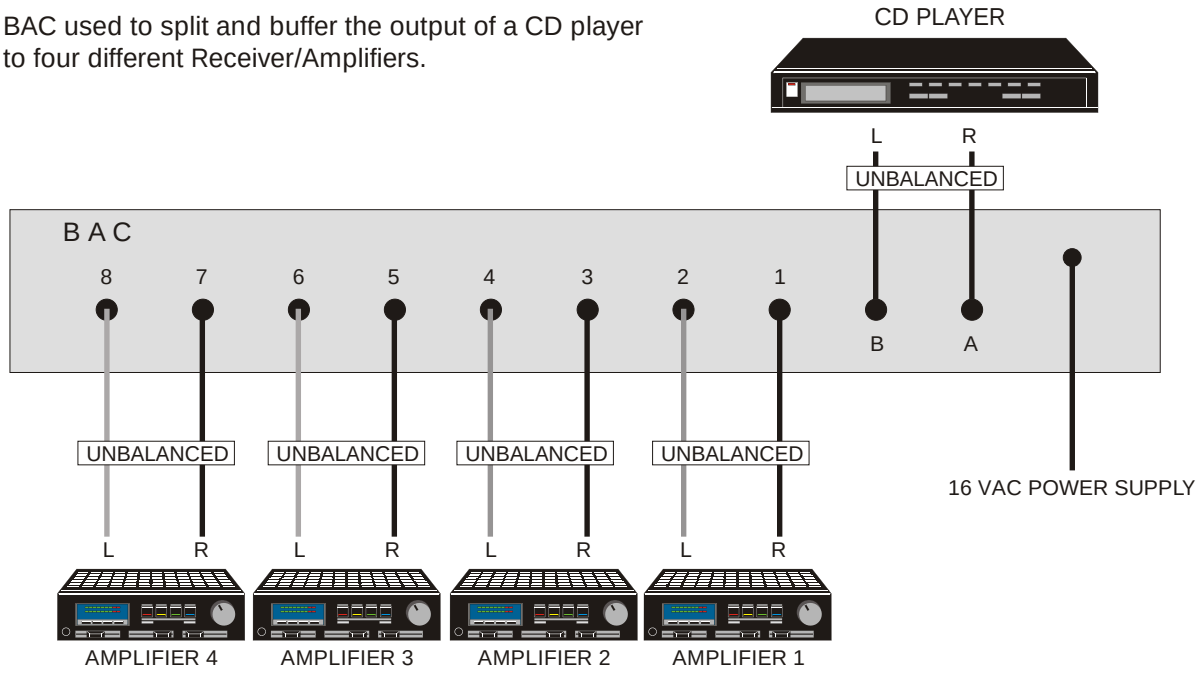
The BAC is a line level audio distribution controller. The input consists of A and B channels. Though each channel is mono in nature, a stereo signal may be accommodated using both inputs. Each input may be configured as balanced or unbalanced at the flick of a switch (rear panel). Therefore both inputs may be balanced, unbalanced, or split with one balanced and the other unbalanced.

There are eight output channels. For each of these outputs there is a gain control knob and input channel selector (A or B) on the front panel. Each output may also be configured as balanced or unbalanced at the flick of a switch (rear panel).

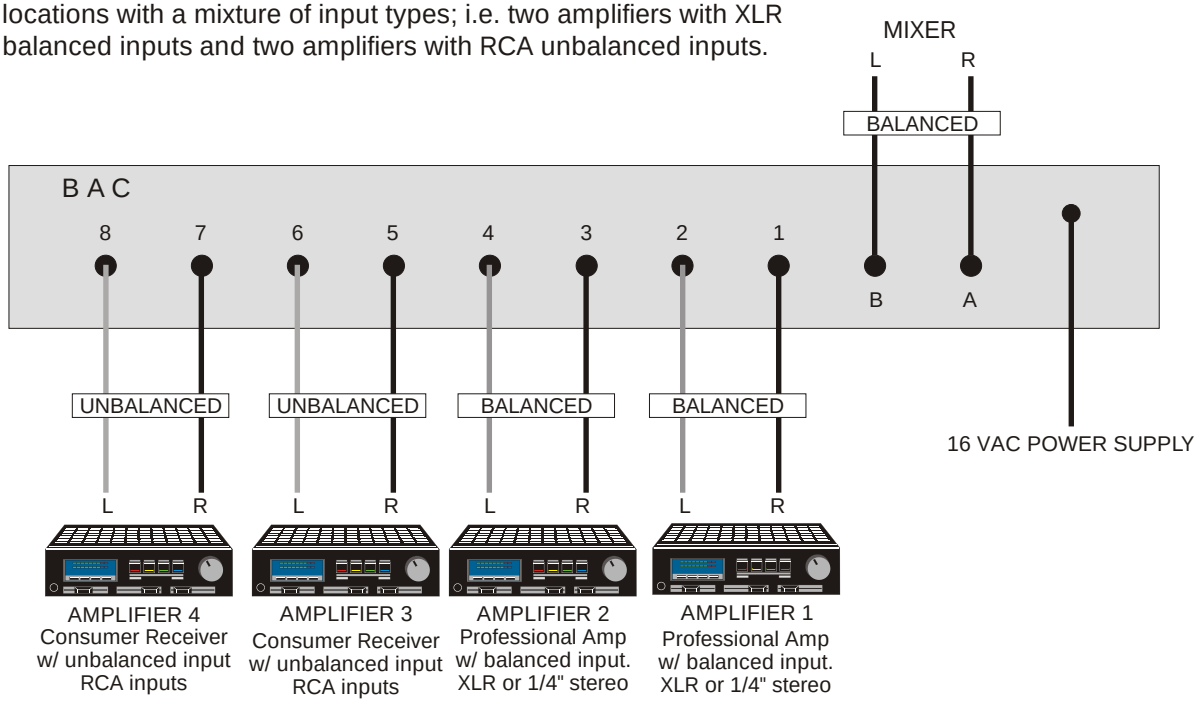
When connecting different pieces of equipment, ground loops are always a possibility. This is particularly true when these pieces of equipment are in different parts of a building or a house. The ground loop usually manifests itself as audio noise/hum or video picture interference. The best way to locate the problem is to disconnect items one at a time until the problem goes away. In some instances the difference in ground potentials is enough to lead to a shock. Care should be taken when dealing with one. To minimize the possibility of a ground loop wire shields should be left disconnected at one end, however a ground wire must be connected between the equipment by a single wire, the bigger the better. Leave all the shields disconnected at the BAC or at the sources and destinations. This pertains only to signal cables. DO NOT LIFT THE BUILDING GROUND ON ANY PIECE OF EQUIPMENT SUPPLIED WITH ONE! DO NOT CUT THE GROUND SPADE OFF OF THE ELECTRICAL CORD!.....You risk your own life and the lives of others.

On the following pages wiring diagrams for different types of connectors are provided. Notice the shields are left disconnected at one end of the wire as stated above. In some cases, Baluns (balanced to unbalanced transformers) are required. Certain types of connectors/adaptors may also be needed. Audioplex Technology(tm) sells many of these items should you need them.

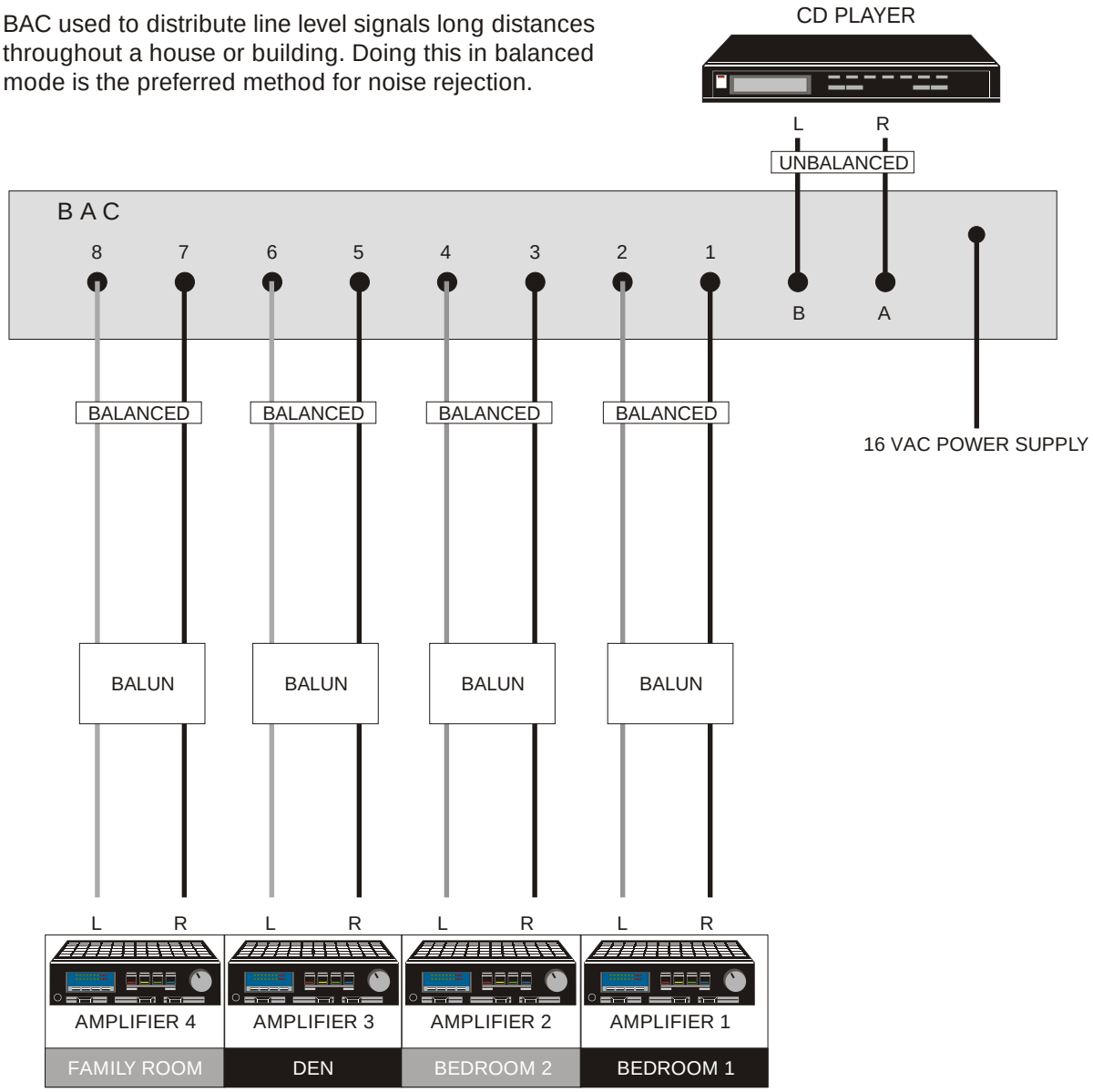
BAC used to split and buffer the output of a CD player to four different Receiver/Amplifiers.



BAC used to send a source, balanced or unbalanced out to four locations with a mixture of input types; i.e. two amplifiers with XLR balanced inputs and two amplifiers with RCA unbalanced inputs.



BAC used to distribute line level signals long distances throughout a house or building. Doing this in balanced mode is the preferred method for noise rejection.



WARRANTY

Your AUDIOPLEX TECHNOLOGY(tm) BALANCED AUDIO CONTROLLER is covered by a 10 year warranty against any defects in workmanship and materials. Any defects will be remedied without charge for labor or parts during this period of time following the date of purchase.

Damage incurred by shipping or accident is not considered to be a defect, and not covered by this warranty. AUDIOPLEX TECHNOLOGY(tm) is not responsible for defective operation caused by abuse or by modification or service by any unauthorized person or agency.

The unit must be properly installed and operated according to instructions for the warranty to apply. Any necessary servicing must be done by AUDIOPLEX TECHNOLOGY(tm). The product must be returned expenses prepaid, with written authorization from the company. The product must be shipped with proof of purchase and in the original carton and packing material to avoid damage.

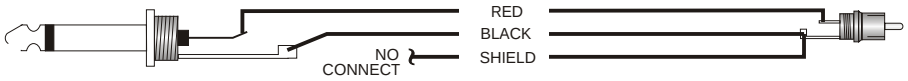
This warranty gives you specific legal rights. You may have other rights which vary from state to state.

Suggested Wire Connections from BAC Output to Amp/Receiver/Processor

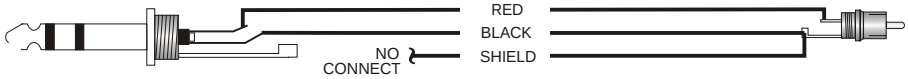
Switch Position UNBALANCED

BAC OUTPUT — AMP/REC

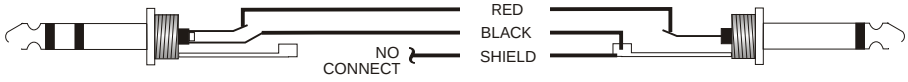
1/4" Mono to RCA



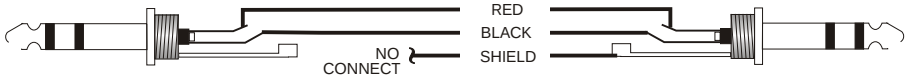
1/4" Stereo to RCA



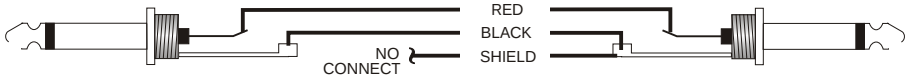
1/4" Stereo to 1/4" Mono



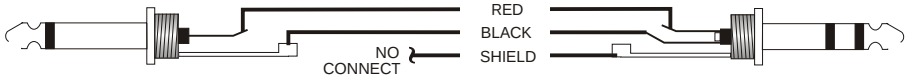
1/4" Stereo to 1/4" Stereo



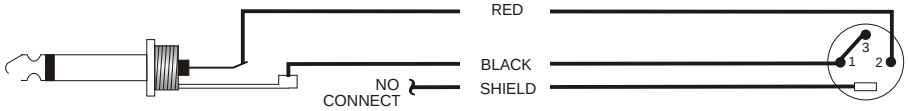
1/4" Mono to 1/4" Mono



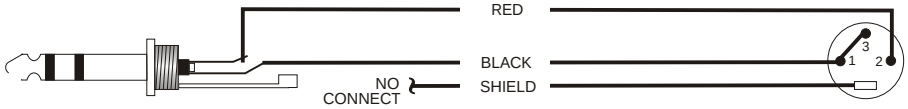
1/4" Mono to 1/4" Stereo



1/4" Mono to XLR



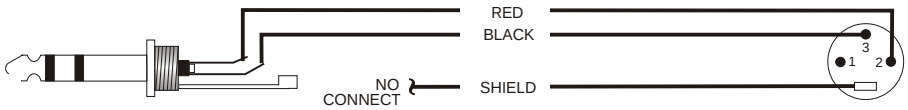
1/4" Stereo to XLR



Switch Position BALANCED

1/4" Stereo to 1/4" Stereo

1/4" Stereo to XLR

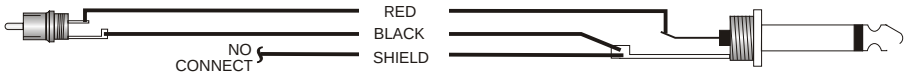


Suggested Wire Connections from SOURCE to BAC

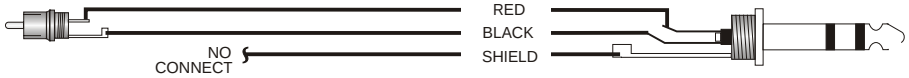
Switch Position UNBALANCED

SOURCE — BAC IN A or B

RCA to 1/4" Mono

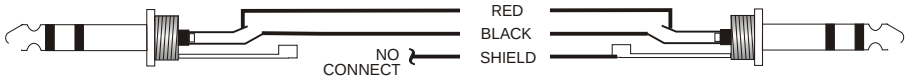


RCA to 1/4" Stereo

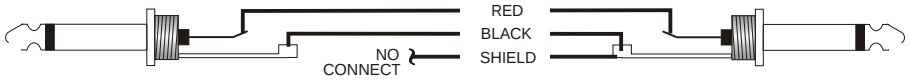


1/4" Mono to 1/4" Stereo

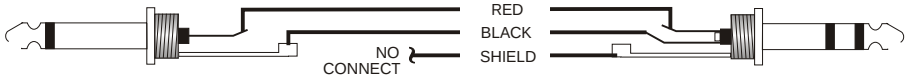
1/4" Stereo to 1/4" Stereo



1/4" Mono to 1/4" Mono



1/4" Mono to 1/4" Stereo

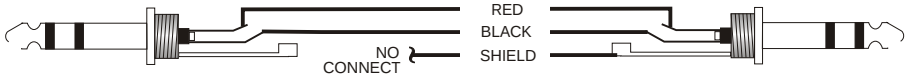


XLR to 1/4" Mono

XLR to 1/4" Stereo

Switch Position BALANCED

1/4" Stereo to 1/4" Stereo



XLR to 1/4" Stereo