OWNER'S MANUAL

SSL-A & SSL-B
SoundSource Links

CTL01010–SSL-A CTL01020–SSL-B LIT01010

LIMITED 5-YEAR WARRANTY

SpeakerCraft warrants this product to be free of defects in materials or workmanship. This extends for five years from the date of purchase by the original consumer. Any products returned to SpeakerCraft and found to be defective by SpeakerCraft within the warranty period will be repaired or replaced, at SpeakerCraft's option, at no charge. SpeakerCraft will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state to state.

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INSTALLATION INSTRUCTIONS
SSL-A & SSL-B SoundSource Links

The SSL-A & SSL-B SoundSource Links are modules that permit high quality audio to be transmitted over long lengths of twisted pair cable. Specifically, they allow two remote audio sources to be connected to the Aux1 & 2 inputs of the SpeakerCraft SoundSource in-wall music center over Cat.5 cable. The SSL-A accepts normal unbalanced line level stereo audio inputs and converts the audio to balanced outputs. The balanced outputs are then passed over long cable lengths (up to 500' of Cat. 5) to the balanced line inputs of the SSL-B. The SSL-B then converts the audio back to unbalanced line level for connection to the Aux1 & 2 inputs of the SoundSource. Up to 4 SoundSources can be so connected to share the same two audio sources. Connections are also provided for IR control of the remote audio components.

SPECIFICATIONS

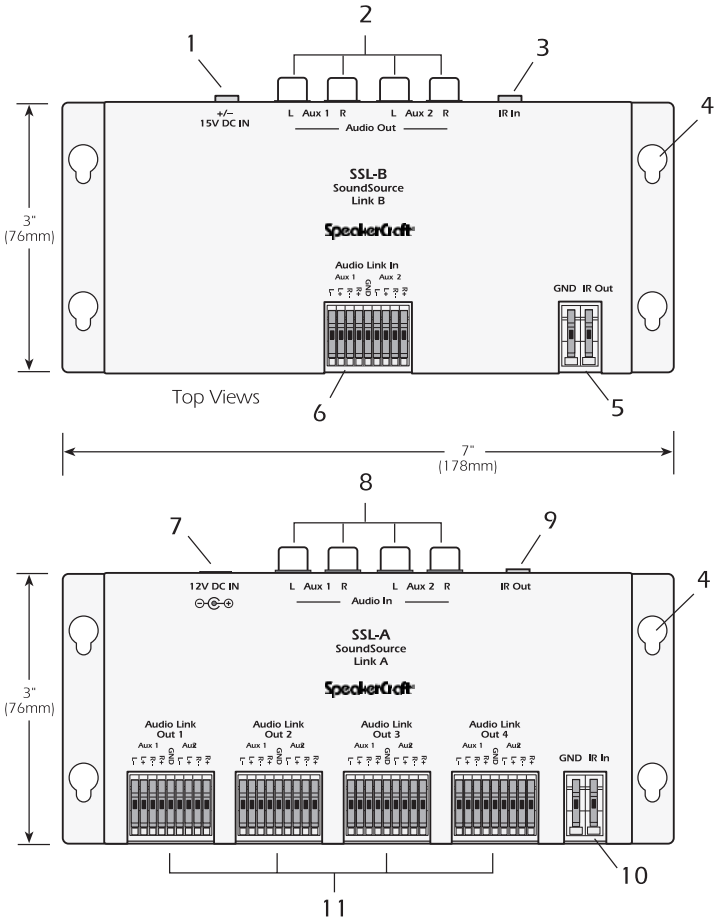
Audio

Max. Input/Output	4.5 V RMS
THD (@ 2 Volts RMS Output)	< 0.05%
Gain (SSL-A Aux Inputs to SSL-B Aux Outputs)	Unity (+/- 2dB)
Input Impedance (Aux 1 & 2)	> 22k Ohms
Output Impedance (Aux 1 & 2)	< 600 Ohms
Frequency Response (with 20' Cat. 5)	20 Hz to 20 kHz +/- 1 dB
Frequency Response (with 500' Cat. 5)	20 Hz to 20 kHz +/- 3 dB
S/N Ratio (re: 2V RMS Out, A WTD)	> 90 dB
Channel Separation (@ 1 kHz, with 500' Cat. 5)	> 50 dB
Cross talk (@ 1 kHz, with 500' Cat. 5)	> 85 dB

Dimensions

7" (178mm) L x 3" (76mm) W x 1-1/8" (29mm) H

Fig. 1 The SSL-A & SSL-B



SSL-A & SSL-B SoundSource Links
FEATURE DESCRIPTIONS

1. +/- 15V DC IN – 3.5mm 3-circuit jack accepts bipolar power input from the SoundSource to power the SSL-B Link.
2. Aux1 & Aux2 Audio Out – RCA type jacks connect the unbalanced line level stereo audio to the Aux1 & Aux2 Audio Inputs on the SoundSource.
3. IR In – 3.5mm 2-circuit jack accepts the IR REMOTE OUT from the SoundSource for control of the remote audio sources.
4. Mounting Holes
5. GND IR Out – 2-terminal spring type connector provides for connection of inter-room 2-conductor wire for IR control of the remote audio sources.
6. Audio Link In, Aux1 & Aux2 – Spring-loaded EZ-Connect terminals accept wire sizes 18 to 28 AWG. Usually you would pull Cat. 5 twisted pair cable for these balanced line audio input signals from the SSL-A.
7. 12V DC IN – 2.1mm jack, center pin +. Accepts 12V DC regulated power supplies to power the SSL-A Link. Use the SpeakerCraft PS-1.0 Power Supply (included).
8. Aux1 & Aux2 Audio In – RCA type jacks allow connection of two standard line level stereo audio sources (unbalanced) to the SSL-A.
9. IR Out – 3.5mm 2-circuit jack accepts the connection of IR Emitters for control of the remote sources.
10. GND IR In – 2-terminal spring type connector provides for connection of inter-room 2-conductor wire for IR control of the remote audio sources.
11. Audio Link Outputs, 1 through 4 – Spring-loaded EZ-Connect terminals accept wire sizes 18 to 28 AWG. Usually you would pull Cat. 5 twisted pair cable for these balanced line audio output signals for up to four SSL-B's. **Shielded Cable Note:** The SSL-A and SSL-B balanced line system, using twisted pair unshielded Cat. 5 cable, has been found to work with excellent signal to noise ratio under many simulated conditions. However, if you feel there may be extremely high levels of EMI interference at the installation site, it may be safer to pull shielded (Cat. 5) cable.

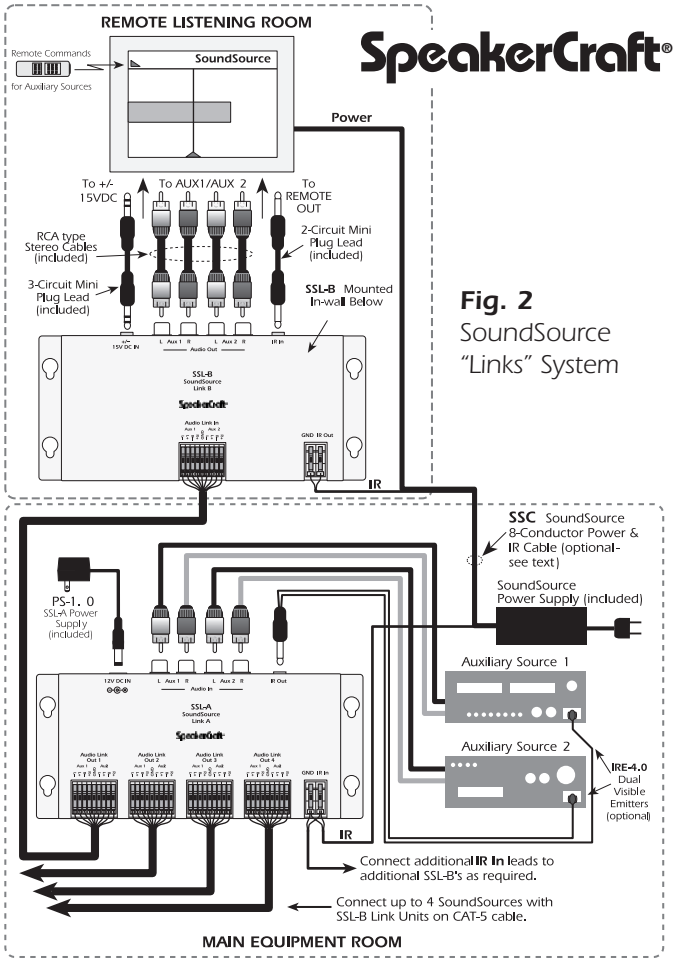


Fig. 2 SoundSource "Links" System

SYSTEM CONNECTIONS

Fig. 2 shows how the SSL-A and SSL-B components are connected into a SoundSource system. Proceed as follows:

1. Pull all the inter-room wiring that you need. It is recommended that you use the SpeakerCraft **SSC** SoundSource 8-conductor cable (stock # CTL01030) for powering the SoundSource and for the inter-room IR connections. Refer to page 7 of the SoundSource Owner's Manual, Chart A, to be sure you match up the correct wire gauges and colors with the designated Power Supply terminals.

2. Install the SoundSource following directions in the SoundSource Owner's Manual. Before fastening the SoundSource into the wall, however, be sure all connections between it and the SSL-B are complete as outlined in steps 3 to 5 following. Mount the SSL-B in the wall on a surface just below the SoundSource.

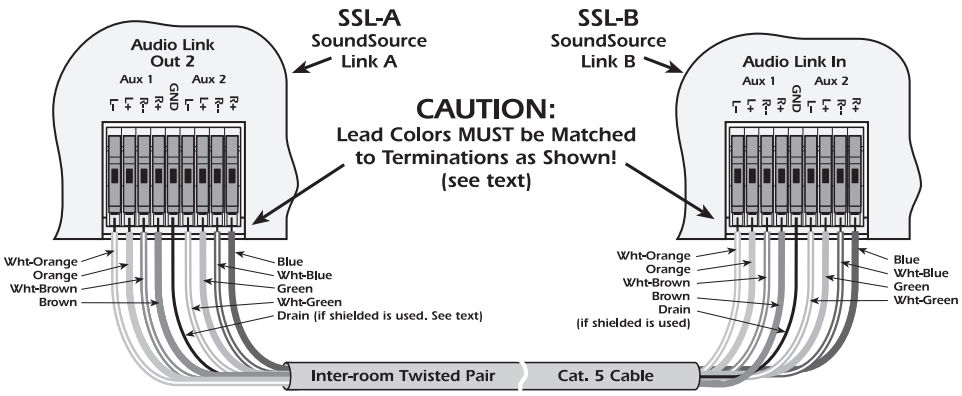
3. Connect the 22 gauge inter-room wire of the SSC cable between the GND/IR In terminals on the SSL-A to the GND/IR Out terminals of the SSL-B. Be sure to use Green for IR and Black for GND.

4. Connect the inter-room Cat. 5 cable to the Audio Link Aux1/Aux2 spring-loaded EZ-Connect terminals between the SSL-A and SSL-B(s).

Note: Lengths of Cat. 5 cables in excess of 500' will result in audible loss of high frequencies.

CAUTION: Be sure that the wire colors you use are exactly matched to the same terminal markings at both ends of the Cat.5. Failure to do so will result in out-of-phase or crossed-over channels. It is highly recommended that you follow the color scheme shown in **Fig. 3** below:

Fig. 3 Cat.5 Connections – Lead Color Reference



Shielded Cable Note: The SSL-A and SSL-B balanced line system, using twisted pair unshielded Cat. 5 cable, has been found to work with excellent signal to noise ratio under many simulated conditions. However, if you feel there may be extremely high levels of EMI interference at the installation site, it may be safer to pull shielded (Cat. 5) cable.

5. Connect the RCA audio leads (supplied with the SSL-B) between the AUX Inputs on the SoundSource and the Audio Out jacks on the SSL-B. Plug the **3-circuit** mini plug lead between the +/- 15VDC jack on the SoundSource and the +/- 15V DC IN jack on the SSL-B.

CAUTION: Be careful **NOT** to plug the 2-circuit mini plug lead into the +/- 15VDC jack on the SoundSource by mistake … to do so will smoke the internal SoundSource power circuit!!

Plug the 2-circuit mini plug lead between the REMOTE OUT jack on the SoundSource and the IR IN jack on the SSL-B.

6. Connect the RCA audio leads (not supplied) between the Auxiliary Sources and the SSL-A. Plug a SpeakerCraft IR emitter (such as the IRE-4.0 illustrated - not included) into the SSL-A IR Out jack and affix the emitter(s) onto the IR Sensor window of the Auxiliary Source(s).

7. When you are sure all connections have been made, plug in the Power Supply for the SoundSource (included) and the PS-1.0 Power Supply for the SSL-A (included).

8. Turn the SoundSource ON and select AUX 1 input (or Aux 2 if used). Advance the volume to a low level.

9. Using the Remote Control from the Auxiliary Source, point it at the upper triangle window on the SoundSource. Commands from the remote should now operate the Auxiliary Source(s) that are located in the Main Equipment Room.