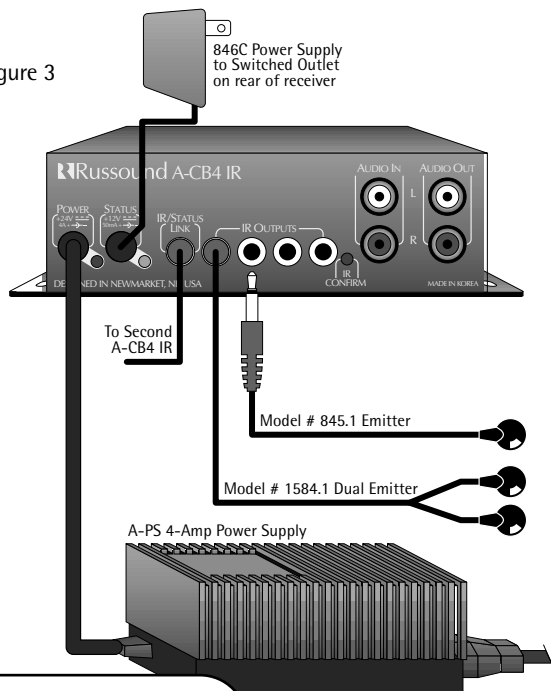
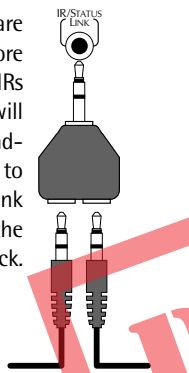


Figure 3

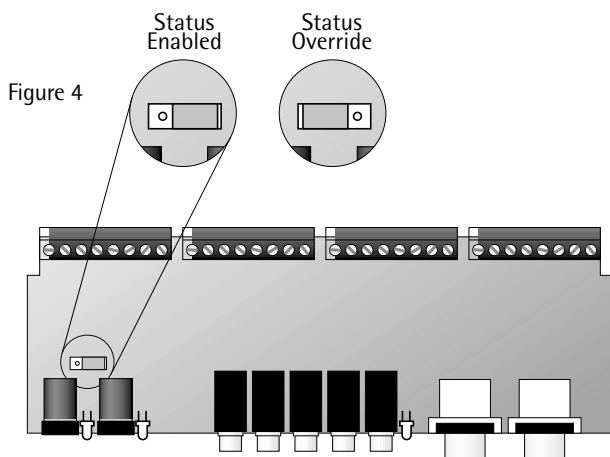


NOTE: If you are connecting more than two A-CB4 IRs together you will need to use a head-phone adapter jack to connect both IR Link Cables to the IR/Status Link jack.



A-CB4 IR CONFIGURATION

- 1) The status output of the A-CB4 IR can be configured to be triggered by an external source or to be constantly active. If the status feature is to be used, both the status selector jumper on the A-CB4 IR and the status indicator jumper on the A-BUS amplified module should be set to the "enabled" position. If you do not intend to use the status feature, set the status selector on the A-CB4 IR and the status indicator jumper on the A-BUS amplified module to the "override" position. The status indicator jumper is located on the circuit board of the A-CB4 IR. All A-BUS components are shipped with the status jumpers set to the "override" position by default. To change the status jumper setting, remove the cover of the A-CB4 IR and set the status jumper according to Figure 4. See the A-BUS amplified module's instructions for status jumper settings.



LIMITED WARRANTY

The Rusound A-CB4 IR is fully guaranteed for Two (2) years from the date of purchase against all defects in materials and workmanship. During this period Rusound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Rusound. The unit must be returned to Rusound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Rusound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Rusound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Rusound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Rusound
A/V DISTRIBUTION & CONTROL SYSTEMS

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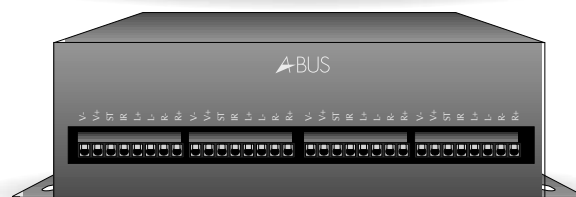
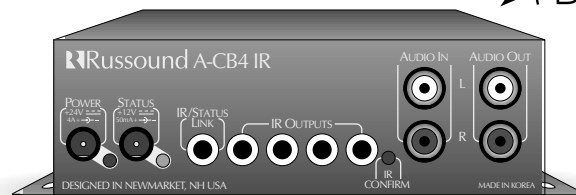
Rusound A-CB4 IR
Tested to Comply
with FCC Standards
FOR HOME OR OFFICE USE

Rusound
A/V DISTRIBUTION & CONTROL SYSTEMS

In-wall Connecting Block
for A-BUS System

A-CB4 IR
Instruction Manual

A-BUS



A-BUS SYSTEM OVERVIEW

The product you have just purchased is an integral part of the Russound A-BUS Multi-Room Audio System. It is a component which, when combined with other essential components and your source equipment (receiver, CD player, etc.), creates a versatile whole-house audio system that will fill your rooms with high-quality sound for years to come.

A-BUS technology is a new, innovative method of providing high quality audio to remote locations with a single 8-conductor cable such as CAT-5. A-BUS technology provides many advantages over other conventional methods of audio distribution such as: simple, single CAT-5 wiring scheme, infrared control of system components, infrared control of the optional A-KP amplified keypad module and system power status.

Every A-BUS System is comprised of components from each of the following three areas.

1. **Volume Controls:** The volume control contains both the amplifier for the room's speakers as well as the control for those speakers. One volume control should be used for each room you choose to control. The Russound A-KP and A-VC are examples.
2. **Interface Modules:** All components of the A-BUS system must be wired centrally to an interface module located near your source equipment. It provides the connection for source equipment, volume controls, infrared emitters and power supply. The Russound A-CB4 and A-CB4 IR are examples. The A-CB4 IR is a surface mount unit which offers signal and infrared interfaces. The A-CB4 is an in-wall Decora® style plate that offers signal interface which can be coupled with the IRB-5 in-wall infrared interface.
3. **Power Supply:** The power supply plugs into the interface module. The Russound A-PS 4-Amp supply is an example.

The A-BUS System is capable of almost infinite expansion. The A-PS, A-CB4 and A-CB4 IR can connect 4 volume controls each. Example: If you wanted to run 8 controls you would need two A-PS Power Supplies and two A-CB4 (IR) interface modules. NOTE: if you use more than 4 interfaces (16 controls) you should use a line level amplifier to increase the signal from the source equipment.

PRODUCT OVERVIEW

The A-CB4 IR is a freestanding connecting block for use with A-BUS systems.

IMPORTANT – Read the manuals that are included with the A-BUS amplified modules as well as any other connected system components. If you are unsure of any of the following installation procedures, this product should be installed by a professional custom installer.

KEY FEATURES

- 1) Connects up to four A-BUS amplified modules such as the A-VC Volume Control or the A-KP Keypad with IR.
- 2) Provides IR emitter outputs for control of source equipment.
- 3) System status input connection.
- 4) IR and Status output jack for expansion to another A-CB4IR Connecting Block.
- 5) Line audio source input.
- 6) Line audio buffered output for expansion to another A-CB4IR connecting block.

A-CB4IR CONNECTIONS

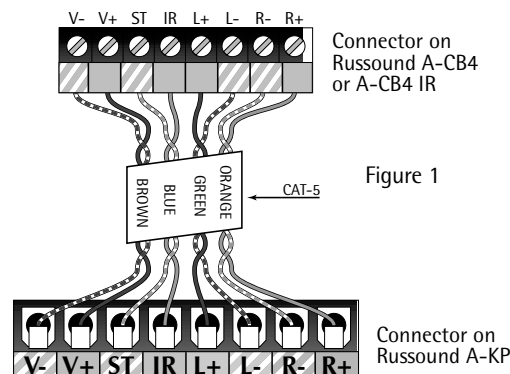


Figure 1

- 1) Make sure that the A-PS power adapter is not connected to the A-CB4 IR connecting Block.
- 2) Connect a CAT-5 cable from the A-CB4 IR Connecting Block to the A-BUS module input as shown in Figure 1. Be sure to follow the wire color code as follows: V- = Brown/White, V+ = Brown, ST = Blue/White, IR = Blue, L+ = Green, L- = Green/White, R- = Orange/White, R+ = Orange. If the color code above is not followed, you may encounter inconsistent operation of the A-BUS module. The recommended maximum connection length for use with standard CAT-5 cable is 100 feet. If the connection length from the A-CB4 IR to the A-BUS amplified module is greater than 100 feet, use 22-18 gauges stranded 8-conductor cable such as Russound Model# MCW-2418 for optimum performance.
- 3) A line-level audio source can be connected to the audio input jacks on the front of the A-CB4 IR. This audio source will be pre-amplified by the A-CB4 IR and sent to each A-BUS amplified module. Audio source connection is shown in Figure 2.
- 4) The A-CB4 IR also has buffered audio outputs. These can be used to connect to an additional A-CB4 IR or to an amplifier or processor.

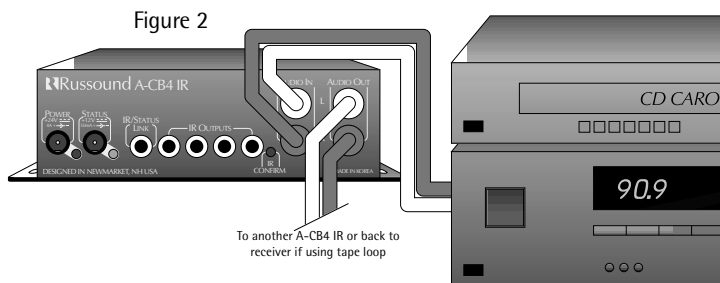


Figure 2

- 5) Connect the 1/8" plug of either the Model #845.1 or #1584.1 emitter to the emitter output jacks on the A-CB4 IR as shown in Figure 3. Up to 4 emitters can be connected to the A-CB4 IR. When using the Model #1584.1 emitters, up to 8 IR controlled devices can be controlled.
- 6) Following the instructions that came with your IR emitter, place the other end of the IR emitter onto the IR sensor window of the equipment to be controlled.
- 7) If you intend to use the System Status feature of the A-BUS system, a Russound Model# 846C Power Supply can be connected to the status input on the A-CB4 IR, as shown in Figure 3. The power supply should then be plugged into a switched AC receptacle, usually on the back of the audio receiver being used. Please read the A-BUS amplified module's instruction for operation with the System Status feature.
- 8) The optional A-CB4 IR Status/IR Link Cable can be used to link the status and IR to an additional A-CB4 IR Connecting Block. Connect the link cable between the Status/IR Jacks on each A-CB4 IR.
- 9) Once all other connections have been made, connect the A-PS A-BUS System Power Supply to the power input jack on the A-CB4 IR.