

## SAFETY INFORMATION

1. This device is to be installed and/or used in accordance with appropriate electrical codes and regulations.
2. Do not install this product in an electrical junction box with 110V or higher unless an approved barrier separates the high- and low-voltage sections.
3. To avoid fire, shock or death, do not connect power to this product until it is fully installed.
4. When in doubt, turn off the power at the circuit breaker or fuse and test that the power is turned off.

### Safety Instructions:

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
  2. Retain Instructions - The safety and operating instructions should be retained for future reference.
  3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.
  4. Follow Instructions - All operating and user instructions should be followed.
  5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
  6. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
  7. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
  8. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
  9. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
  10. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
  11. Liquid Entry - Care should be taken so that liquids are not spilled into the enclosure through the openings.
  12. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
    - A. The power supply cord or the plug has been damaged; or
    - B. Liquid has been spilled into the appliance; or
    - C. The appliance has been exposed to rain; or
    - D. The appliance does not appear to operate normally; or
    - E. The appliance has been dropped or the enclosure is damaged.
  13. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
- Precautions:
1. Power – WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.  
Models are designed for use with AC120V, 60Hz
  2. Do Not Touch The Unit With Wet Hands – Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the cabinet, take the unit to a qualified service person for inspection.

## LIMITED WARRANTY

The Russound CRX and CTX baluns are fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. For this warranty to apply, the unit must be installed and used according to its written instructions. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. Accidental damage and shipping damage are not considered defects under the terms of this warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. If service is necessary, it must be performed by Russound. Damage to or destruction of components due to excessive power 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 Russound 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.

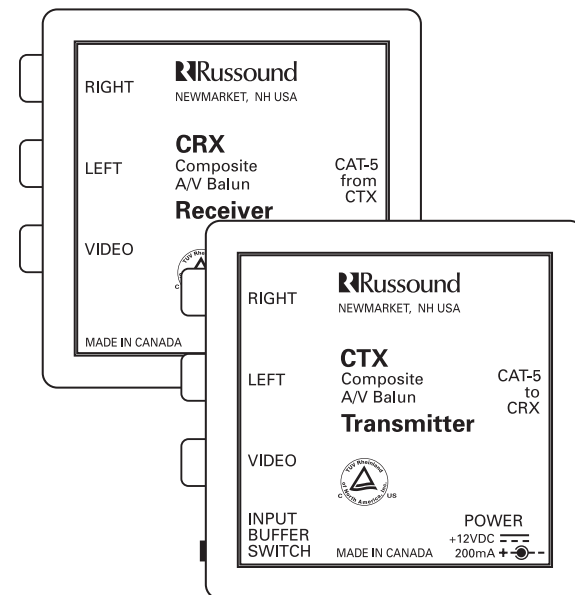
Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write the RA number on the shipping label and ship to: Russound, ATTN: Service, 5 Forbes Road, Newmarket NH 03857

Russound sells product only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.



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28-1246 01/24/06



## VBC Kit Composite A/V Balun Installation Manual

## INTRODUCTION

The VBC Composite Audio Video Balun Kit contains a pair of active circuitry (powered) baluns for sending composite video and two-channel analog audio over a single CAT-5 cable. This kit includes a transmitter and receiver and would be used in multiroom audio-video distribution systems to remotely locate an audio-video source from a distribution or display device.

The benefits of using this kit are that it uses low-cost CAT-5 cable, plus it eliminates ground loops, which may occur when remotely locating sources from displays. Ground loops are seen as lateral "hum" bars scrolling on the display and an audible hum in the audio. The kit also uses an active buffer switch that allows a source signal to be split and shared with another system.

## KIT CONTENTS

- (1) CTX transmitter module
- (1) CRX receiver module
- (1) 846C 12VDC 200mA power supply

## INSTALLATION

You will need two sets of RCA cables and the appropriate length of CAT-5 cable. Also recommended are RJ45 modular wall plates mounted near the source and near the remotely located equipment.

The modules should be adhered to a clean, flat surface close to the connected device. Use hook and loop fastener or double-sided foam tape.

Turn off the power and disconnect the video equipment. Determine the length of CAT-5 cable (up to 1000 feet) needed to run between the source equipment and the remotely located equipment. Determine where the 846C power supply will be located (can be connected to EITHER the CTX or CRX unit). The unit uses very little power and can be left powered on (green LED indicates power).

### At the TRANSMIT end:

The CTX is located at the source end (DVD, VCR, stereo, etc.) of the system. Use an RCA audio-video cable and connect the appropriate audio-video outputs of the source to the CTX unit's Right, Left and Video inputs. If the source audio is mono, connect the Left connector only (leave Right unconnected).

When splitting a video signal output to a TV and the CTX, use a "Y" RCA cable with one end connected to the TV and the other to the Video input of the CTX. To avoid poor picture quality when splitting the signal, press in the Input Buffer Switch on the CTX. Otherwise, the switch should be left OFF (button raised).

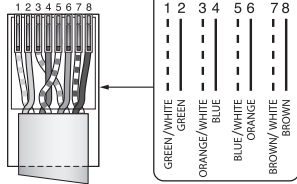
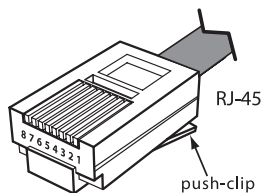
For the CAT-5 connection, use a CAT-5 patch cable with RJ45 connections at each end using the T568A wire configuration. Run the patch cable from the CTX to the wall plate.

Run CAT-5 cable from the back of the wall plate to the back of the wall plate located near the remote display.

### RJ-45 CAT-5 Wiring Scheme

Connection shown:  
flat side on top  
push-clip on the bottom

RJ-45 using T568A Wiring Standard



### At the RECEIVE end:

The CRX is located at the remote end (TV, VCR, stereo, etc.) of the system. Use an RCA audio-video cable and connect the appropriate audio-video inputs of the equipment to the CRX unit's Right, Left and Video inputs. If the source audio is mono, connect the Left connector only (leave Right unconnected).

For the CAT-5 connection, use a CAT-5 patch cable with RJ45 connections at each end and the T568A wire configuration. Run the patch cable from the CRX to the wall plate.

Once all connections are made, power can be restored to the system and its components.

## SPECIFICATIONS

Dimensions:	(Transmitter and Receiver) 2.6" W x 1.1" H x 1.1" D (6.6 x 2.8 x 2.8 cm)
Transmitter Inputs/ Receiver Outputs:	3 RCA (Red-Right Audio, White-Left Audio, Yellow-Video)
Transmitter Output/ Receiver Input:	1 RJ45 8-Position modular connector T568A format
Cable:	CAT-5
Cable distance:	1000 ft point to point
Video format:	Composite video
Video bandwidth:	Transmitter and Receiver 450MHz @ -3db
Video signal:	Transmitter and Receiver 0.5V to 2V composite
Audio input impedance:	20k Ohm 3v Peak to Peak max
Audio signal:	Two channel analog audio
Operating voltage:	12VDC 200mA max



Conforms to  
UL 6500  
Certified to  
CAN/CSA

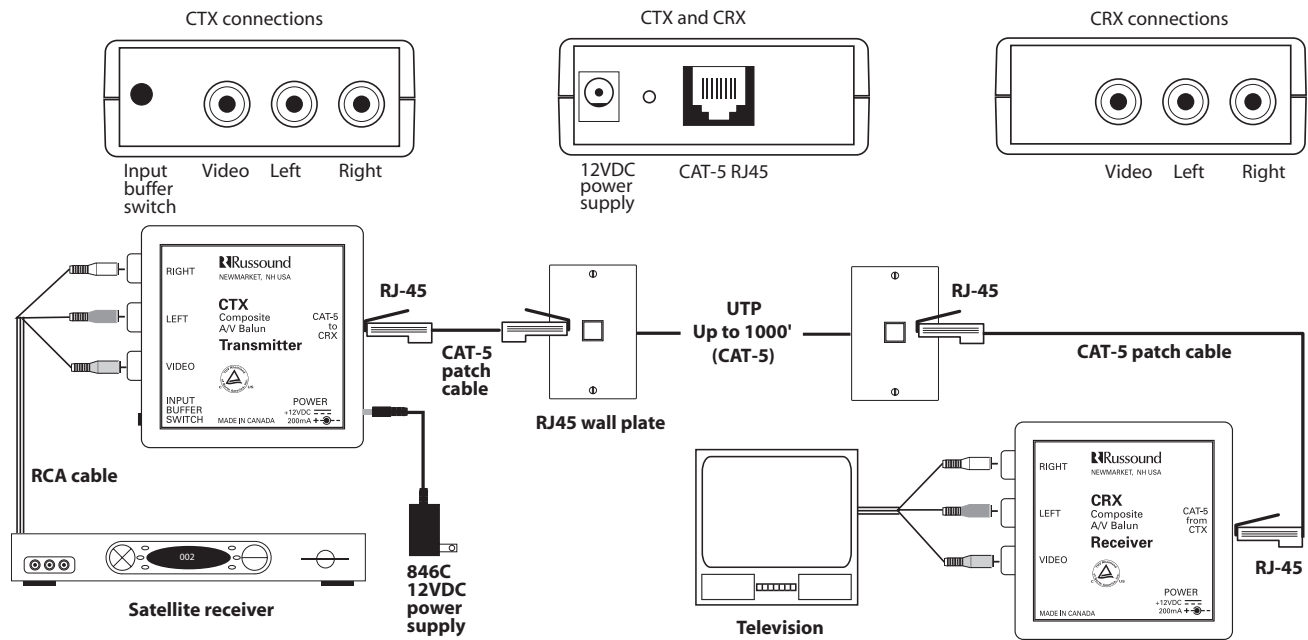


Diagram showing a typical installation with CTX and CRX baluns