

**R** RadioShack

# Bi-Directional Cable-TV Amplifier

15-2505

## Introduction

The RadioShack Bi-Directional Cable-TV Amplifier is ideal for distributing a cable signal to a remote location. It can also distribute antenna and HDTV signals. This amplifier increases the output signal up to 10dB, while minimizing interference. It also allows bi-directional communication so you can enjoy pay-per-view events and interactive TV. It is also compatible with digital cable modems. The amplifier can be mounted on a wall or placed on a table or other indoor surface.

## Step One

### Selecting a Location

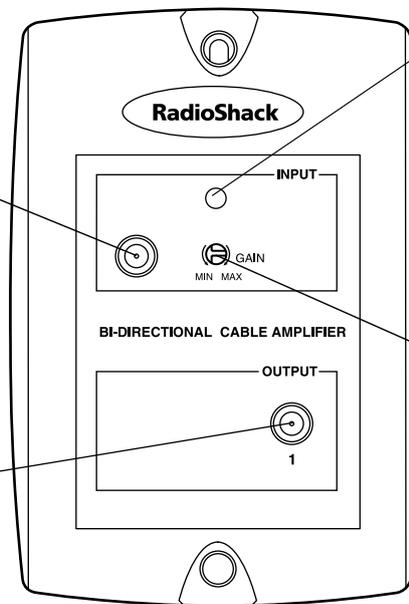
Select a location for your amplifier that is close to your input source and an AC outlet. You can mount the amplifier on a wall or other surface using #6 screws (not supplied).

- Do not place the amplifier outdoors.
- To keep exposed cable to a minimum, you can also place the amplifier in your attic.
- To prevent interference, do not place the amplifier within six inches of any other electronic device.

**INPUT** — Connect a coaxial cable here to connect to your cable system.

**OUTPUT** — Connect a coaxial cable here to connect to the receiver (TV or VCR).

Front View



The red LED lights to indicate power is on.

**GAIN MIN/MAX** — Adjust until the best picture quality is received.

## Step Two

### Routing Cables

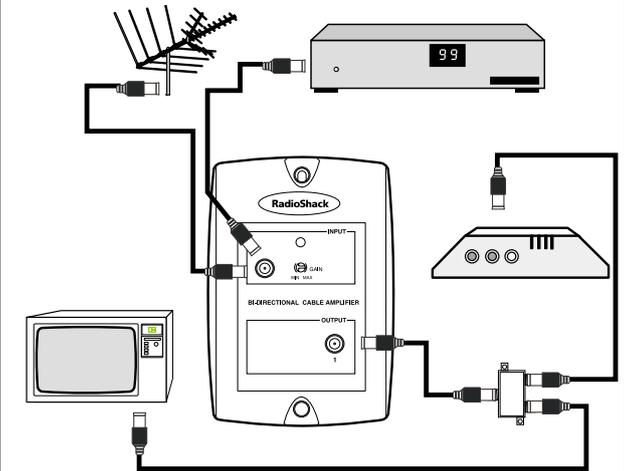
Route 75-ohm (RG-6 or RG-6QS) coaxial cable from the amplifier to your input source and receiver. Follow these hints when routing cable:

- Use only as much cable as is necessary to reach from the amplifier to the input source and receiver.
- Do not route cables where they might be cut, crimped, or crushed by normal activities.
- For the best appearance, route the cable through the attic and walls, and terminate each cable in a wall mount box with an F-connector. Wall mount F-connectors, coaxial cable, and other video accessories are available at your local RadioShack store.

## Step Three

### Making Connections

1. Connect a coaxial cable to your input source. To connect more than one input source to the amplifier, use a high isolation A/B switch or video selector to switch between inputs.
2. Connect the coaxial cable from your cable box or antenna (input source) to the amplifier's **INPUT** terminal.



3. Connect one end of a coaxial cable to your output device (TV, cable modem) and the other end to the amplifier's **OUTPUT** terminal.
4. Connect the supplied AC adapter to the jack on the amplifier.
5. Plug the AC adapter into a standard AC outlet. The amplifier's red LED lights when it has power.
6. Turn on the receiver.
7. Use a flat-head screwdriver to adjust **GAIN MIN/MAX** until you get the best picture.

## Safety Instructions

- Read and retain all safety and operating instructions.
- This appliance should not be used near water, such as near a bathtub, washbowl, kitchen sink, or laundry tub.
- The amplifier should be situated so that its location does not interfere with its proper ventilation.
- This amplifier should be connected to a power supply of the type described in the operating instructions or marked on the amplifier.
- Do not attempt to defeat the grounding or polarization components of this amplifier.
- Wipe the amplifier with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the amplifier.
- The power cord of the amplifier should be unplugged from the outlet when left unused for extended periods of time.
- Do not allow liquids to spill through the amplifier's openings.
- The amplifier should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.
- If an outside antenna is connected to the receiver, be sure the antenna system is grounded to provide some protection against voltage surges, built-up static charges, and lightning strikes. Section 810 of the National Electric Code (NEC), ANSI/NFPA NO. 70-1990, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- The CATV system installers attention should be directed to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

## Notes

- Do not use pliers to tighten screw-on F-connectors.
- Never connect both an outdoor antenna and the output from the amplifier to the antenna input of your TV or VCR without using a high isolation A/B switch. Doing so could cause interference with other nearby receivers.
- For an additional grounding method, remove a rubber foot from the amplifier and back out the #6 grounding screw. Place a grounding wire over the grounding screw and tighten the screw back into the housing.
- In extremely long cable runs (distances over 200 feet), additional amplification might be needed.

## FCC Information

**WARNING:** To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b>		The lightning symbol is intended to alert you to the presence of uninsulated dangerous voltage within this product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.
<b>RISK OF ELECTRIC SHOCK DO NOT OPEN</b>			
<b>CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.</b>			The exclamation symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

### Cautions:



You must use a Class 2 power source that supplies 12V DC and delivers at least 100 mA. Its center tip must be set to positive and its plug must fit the amplifier's adapter jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the amplifier or the adapter.

Always connect the AC adapter to the amplifier before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the amplifier.

### FCC Declaration of Conformity

This device complies with Part 15 of the *FCC Rules*. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product:	Bi-Directional Cable-TV Amplifier
Model:	15-2505
Responsible Party:	RadioShack 100 Throckmorton Fort Worth, TX 76102
Phone:	817-415-3200



### The FCC Wants You to Know

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the *FCC Rules*. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local RadioShack store or an experienced radio/TV technician for help.
- If you cannot eliminate the interference, the FCC requires that you stop using your amplifier.
- Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

## Specifications

### Forward Path:

Operating Frequency Range..... 54–1000 MHz  
Gain ..... Up to 10 dB  
Gain Adjustment Range..... 8 dB

### Reverse Path:

Operating Frequency Range ..... 5– 40 MHz  
Insertion Loss ..... 5 dB

Adapter Input Voltage ..... 105–135V

Power Usage ..... <2W

Power Line Frequency ..... 50–60 Hz

Dimensions (HWD) ..... 1½ x 3¾ x 5½ Inches  
(3.81 x 9.53 x 13.97 cm)

Weight ..... 6.72 oz (190.51 g)

*Specifications are typical; Individual units might vary. Specifications are subject to change and improvement without notice.*

## Limited 90-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for 90 (ninety) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

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

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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