

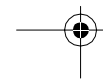
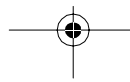
Cat. No. 15-1117A
OWNER'S MANUAL

Please read before using this equipment.



**10 DB Coaxial
In-Line Amplifier**



RadioShack®



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

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

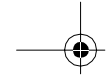
The RadioShack 10 dB Coaxial In-Line Amplifier brings to your home video system the same technology that is used in commercial cable systems: a single, standard coaxial cable carries both the TV/radio signal and the power necessary for the in-line amplifier.

The In-Line Amplifier reduces or eliminates the signal losses caused by signal transformers, signal splitters, other in-line devices or extremely long cable runs between the antenna and receiver system. And, the In-Line Amplifier will amplify virtually any TV/radio signal, from 5 MHz to 1 GHz (1000 MHz).

The compact, in-line design of the amplifier simplifies installation at the "head end" of an antenna system (the end nearest the antenna, where amplification will do the most good).

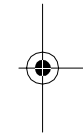
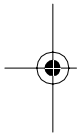
The In-Line Amplifier can be used with antenna systems for:

- Standard VHF/UHF/Cable TV
- Amateur TV Systems
- Scanners
- FM Stereo Radio

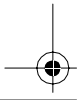


Caution: Because the In-Line Amplifier uses the coaxial cable to carry the TV/radio signal from the DC power supply, proper connections are crucial. Failure to exactly follow the connection instructions in this manual can result in damage to your amplifier or your TV/radio receiver.

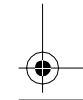
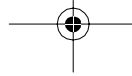
ILLUSTRATION



Note: The amplifier and DC block are sealed together by a plastic tube. In most installations, they must remain together. Read all connection instructions carefully.



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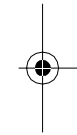
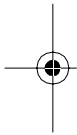


ONE ANTENNA/ONE RECEIVER SYSTEMS

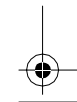
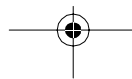
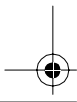


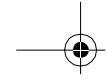
If you are using a single antenna with a single TV/radio receiver, "Installation A" shows the proper connections. To avoid damage to your TV/radio receiver and/or the amplifier power injector, carefully check all the points listed below.

- Do not separate the amplifier from the DC block. The DC block must be between the amplifier and the 300-to-75 ohm transformer (Cat. No. 15-1140) at the antenna.
- Follow the connection labeling on the amplifier/DC block unit: **TO ANTenna**, **TO POWER INJECTOR**. The amplifier will not receive power if they are reversed.
- Follow the connection labeling on the power injector: **TO TV**, **TO AMPLIFIER**. Your TV/radio receiver will be damaged if they are reversed.
- If a VHF/UHF splitter is used for a TV, it must be connected between the TV and the power injector.

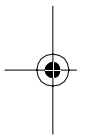


The In-Line Amplifier is designed for use with F-type connectors. For some antenna systems (for scanners, for example), you will have to use connection adapters or make a special cable.

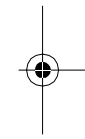




Installation A



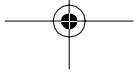
ILLUSTRATION

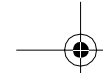


Do not plug in the power injector until all connections have been double-checked.



6



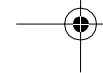
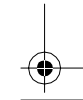
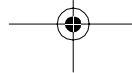
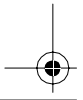
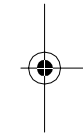
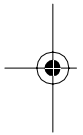


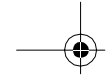
ONE ANTENNA/TWO RECEIVER SYSTEMS



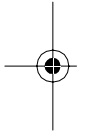
If you are using a single antenna with two TV/radio receivers, "Installation B" shows the proper connections. To avoid damage to your TV/radio receivers and/or the amplifier power injector, carefully check all the points listed below.

- For the first antenna and TV/radio receiver (#1), follow all instructions on Page 5 for "One Antenna/One Receiver Systems."
- Make sure the power injector is between the amplifier and the splitter (before the signal is split).

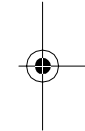




Installation B

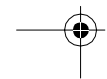
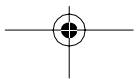


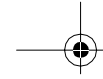
ILLUSTRATION



Do not plug in the power injector until all connections have been double-checked.

8

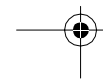
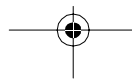
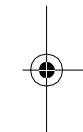
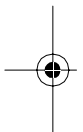


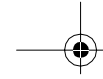


Additional Amplification

If additional amplification is needed, you can connect another amplifier in line with the first amplifier. Remove the DC block from the optional second amplifier. One power injector will supply enough power for both amplifiers.

Note: The In-Line Coaxial Amplifier can only be purchased as a kit, with the Power Injector and DC Block. If you want to use a second amplifier in your system, retain the extra parts for future additions to your system or as replacements if other parts are damaged or lost.





AMATEUR TV SYSTEMS



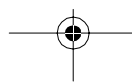
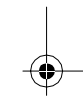
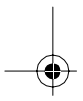
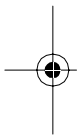
You can use the In-Line Amplifier with 2.4 GHz, amateur TV (ATV) systems, as shown in “Installation C.”

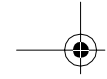
If the power supply provided with your ATV antenna provides a center-positive power supply, it can be used to power the In-Line Amplifier as well; you do not need the amplifier’s power injector.

Caution: The In-Line Amplifier cannot be used if the ATV power supply is center negative.

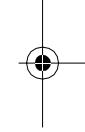
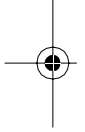
In this case only, you should remove the DC block from the amplifier and connect the amplifier directly to the F-type connector on the ATV antenna down converter. Remove the plastic tube that holds the amplifier and DC block together and unscrew the two pieces.

If the ATV antenna is used with more than one TV receiver, you must follow all connection procedures for “One Antenna/Two Receiver Systems” (Page 7–9), except that the DC block between the antenna and the amplifier will be removed, as described above.

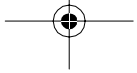




Installation C



ILLUSTRATION



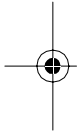


PROBLEM SOLVING

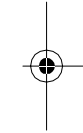


If the TV/radio receiver does not operate correctly after installation of the In-Line Amplifier:

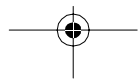
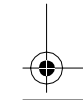
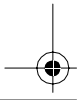
- Immediately unplug the power injector.
- Check all connections and compare them with the appropriate installation drawing(s) in this manual.



If no problems are found in the connections: Plug in the power injector and try the TV/radio receiver again. If possible, try a different TV/radio receiver with the system or try the TV/radio receiver with a different antenna system.



If the above procedures do not resolve the problem: Take the unit to your local RadioShack store for assistance.



SPECIFICATIONS

Amplifier:

Frequency: 5–900 MHz

Gain:	5–50 MHz	8 dB MIN
	50–300 MHz	10 dB MIN
	300–900 MHz	9 dB MIN

Input Capability 83dB μ V MIN (**7 CHANNEL INPUTS**)

Max Input for –60dB Third Order Distortion 90dB μ V MIN (Tested AT CH.3)

Noise Figure:	5–400 MHz	6 dB MAX
	400–900 MHz	6.5 dB MAX

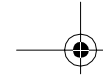
Power Injector:

Input 120V AC 60Hz

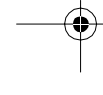
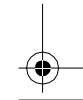
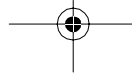
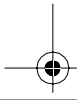
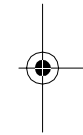
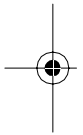
Output Voltage DC 9 \pm 1 V

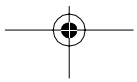
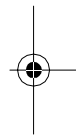
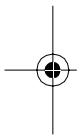
Max Output 100 mA

Insertion Loss 1.dB MAX



NOTES





Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) 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 the limitations on how long an implied warranty lasts or the exclusion 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.

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