



Cat. No. 15-1108A

TV • FM Antenna Mounted Signal Amplifier

This amplifier provides up to 26 dB amplification of signals from outdoor VHF, UHF, FM or combination antennas. This high degree of amplification is necessary when your antenna is 100 feet or more from the TV, or when a single antenna supplies signals to several units — TVs, VCRs, or FM receivers. The amplifier also helps pull in signals from weak or distant stations.

Note: This unit only amplifies signals; it does not enhance distorted or noisy signals.

Special Automatic Protection Circuit — guards against cable shorts and prevents damage to connected receivers.

Surface-Mounted Components — assure long-term reliability.

Please read all of the instructions and warnings contained in this Owner's Manual, in the supplied "Safety Instructions" sheet, and on the product.

Warning: To prevent fire or shock hazard, do not expose this amplifier to rain or moisture.

FEATURES



Separate Antenna and House Units — maximize operational efficiency.

Built-In Adjustable Gain Control — reduces signals by up to 10 dB to prevent overload, and allow custom matching of amplification to signal strength.

Switchable FM Trap — reduces or eliminates FM interference, which appears as a herringbone pattern on the TV screen.

Power Indicator — lights when the amplifier is operating, and goes out if power fails or the connecting cable shorts.

Sonic-Welded Weather Resistant Enclosure — lengthens product life.

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



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.



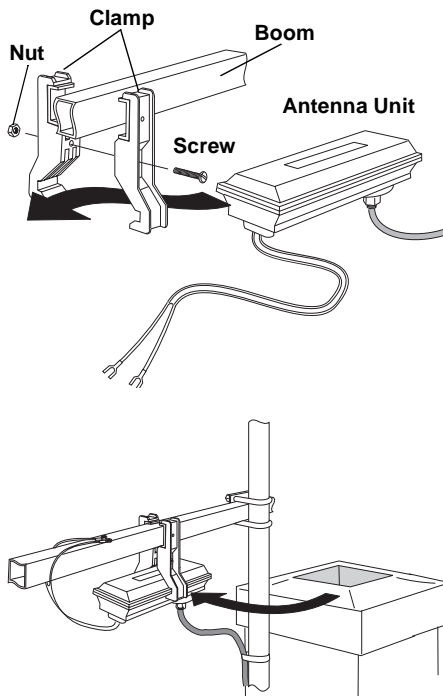
This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

INSTALLATION

Antenna Unit

Caution: For outdoor antennas, always install an antenna grounding system as shown in the supplied "Safety Instructions."

The antenna unit mounting clamp is supplied with two pair of inserts. For a RadioShack antenna with a 1-inch boom, use the clamp by itself. For other antennas, use either the round or square insert appropriate for your antenna installation. Push the insert into the small hole in the clamps.



Follow these steps to install the antenna unit:

1. Place the clamp around the boom and insert the clamp screw through the hole in the clamp. Start the nut on the screw.
2. To prevent water leakage, insert the antenna unit in the clamp with the F-connector's holes facing down. Tighten the screw to secure the antenna unit and the clamp in place. Do not overtighten the screw.

Caution: If the antenna is mounted on or near a chimney, position the antenna unit so it is not directly over the flue.

3. Connect the 300-ohm flat lead from the antenna unit to the antenna's screw terminals. Follow the directions provided with your antenna to verify the proper terminals.

Note: To assure full protection against the effects of weather, you can apply a coating of Rubber Sealant (Cat. No. 64-2314) to the antenna connections. Use Connector Sealant Tape (Cat. No. 278-1645) to protect all exterior coaxial connectors.

- Choose a length of cable long enough to reach from the antenna to your TV or receiver. RadioShack stores have various pre-cut lengths of cable with boots and connectors attached. If you choose to assemble your own coaxial cable, use the supplied weatherboot at the antenna unit connection.

Attach one end of a 75-ohm coaxial cable to the F-connector of the antenna unit.

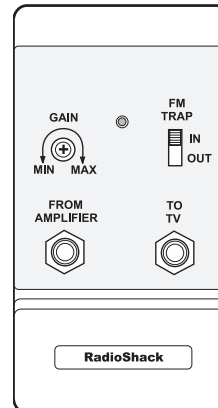
Note: Do not splice the cable or install any in-line devices, such as splitters or filters. You can install a Grounding Block (Cat. No. 15-909), which passes DC current and provides a connection point for a static discharge ground rod.

- Use either standoffs or weather-resistant electrical tape to secure the cable to the antenna mast. Use standoffs to secure the cable to the building as you bring the cable to your TV.

Notes:

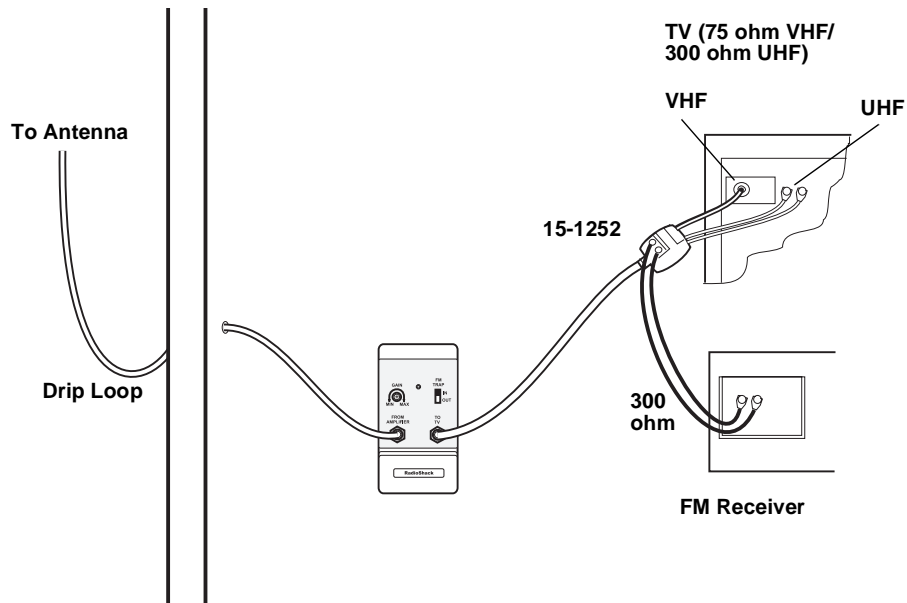
- If you use a power rotator on your antenna, be sure to leave enough cable slack for unrestricted rotation of the upper section.
- Allow a slight amount of slack (called a drip loop) where the cable enters your house.
- Be sure to weatherproof all connections, using plastic electrical tape or a coaxial sealant.

House Unit



Note: This amplifier is intended for indoor use only.

- Select a location for the house unit near the TV or FM receiver and close to a standard AC outlet.
- Attach the unit to a wall or baseboard, using the provided mounting screw. Do not mount it to any electrical equipment or your TV set or FM receiver.
- Connect the coaxial cable from the antenna unit to the **FROM AMPLIFIER** terminal on the house unit. Do not overtighten the connector.
- Connect one end of a short length of cable to the **TO TV** terminal of the house unit.



5. Connect the other end of that cable to the receiving unit(s).

- For connection to a single unit with a 75-ohm input, connect the cable directly to the input.
- For connection to a single unit with a 300-ohm input, use a 75-to-300 ohm transformer, such as Cat. No. 15-1140.
- For connections to UHF/VHF TV terminals and an FM receiver, use a VHF/UHF/FM splitter, such as Cat. No. 15-1252.

Caution: Be sure not to reverse the **TO TV** and the **FROM AMP** connections. Non-hazardous, low voltage is present from the **FROM AMP** terminal of the house unit, which might damage an improperly connected receiver.

6. When all connections are made and double-checked, plug the house unit's power cord into a standard AC outlet.

Multiple TV Connections

The house unit's output, labeled **TO TV**, can supply a signal to more than one TV. Connect a Four-Set Hybrid Splitter (Cat. No. 15-1142) to **TO TV** and follow the splitter's owner's manual to make the connections to more than one audio/video device.

OPERATION

FM Trap

If the TV picture contains wavy or heringbone-patterned dark lines, set **FM TRAP** to **IN** to reduce or eliminate this interference.

If you have the amplifier connected to an FM radio and a TV, set **FM TRAP** to **OUT** when you listen to the radio.

If the FM trap has no effect on the TV picture, the source can be from other types of interference. You might need additional filters or traps.

Gain Control

If your TV receives too strong a signal, the picture tears and becomes unstable. Also, FM sound can become distorted. Use a Phillips screwdriver to adjust **GAIN** to provide the maximum signal amplification without overload.

- Turn **GAIN** toward **MAX** for weak or distant stations.
- Turn **GAIN** toward **MIN** for nearby or strong stations.

Automatic Protection Circuit

The amplifier contains circuitry to guard against damage caused by a short in the cable from the antenna to the TV set. A short between the antenna and house units causes the amplifier to shut down automatically, turning off the power indicator. If you locate a short, follow these steps to correct it:

1. Unplug the power cord and disconnect the shorted coaxial cable.
2. Wait 10 minutes for the unit to reset. Repair or replace the cable.
3. With the cable disconnected, plug in the house unit.
4. If the power indicator lights, unplug the unit, re-connect the cable, and plug in the power cord again.

If the situation persists, take the unit to your local RadioShack store for service.

TROUBLESHOOTING

If you have poor FM radio reception, be sure **FM TRAP** is set to **OUT**.

If the reception is poor on all units connected to the amplifier:

- Be sure the house unit is plugged into a live AC outlet.
- Check all connections between the antenna, the antenna unit, and the house unit.

If you have poor or no reception on only one unit of a multiple receiver system connected to the house unit:

- Check all F-connectors for damage, especially to the center pins.
- Be sure the F-connectors are properly attached.
- Verify that the TV or FM receiver operates properly when used with other signal sources.

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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