

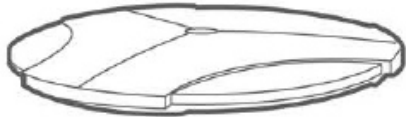


**Omnidirectional Amplified  
HDTV Antenna ■ VHF/UHF**

**WARNING:** Installation of this product near powerlines is dangerous. For your safety, follow the installation directions.

When you install your antenna, use extreme caution. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches the power line, contact with the antenna, mast, cable or guy wires can cause electrocution and death. Call the power company to remove the antenna. Do not attempt to remove it yourself.

### Model 5MS921



Your model 5MS921 Antennacraft amplified, omnidirectional TV antenna for HDTV/VHF/UHF, provides excellent reception for most urban/suburban viewing locations, RVs and boats. Its omnidirectional operation provides an easy way to get TV reception where broadcasts are from different directions. It has a built-in amplifier that boosts signals up to 20dB, and a built-in FM trap that prevents strong FM stations from interfering with channels 2-13.

### Before You Begin

Before beginning installation, read these directions and the Consumer Product Safety Commission Information on the back of these directions. For your safety and convenience, plan each step of the installation and purchase the necessary hardware in advance. The hardware required and the order in which you perform the steps depend on the mounting and connection method you choose.

### Important!

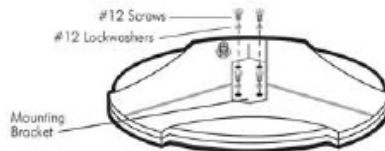
The cable between the power injector and the antenna carries power to the antenna. **DO NOT CONNECT DEVICES SUCH AS SPLITTERS OR AMPLIFIERS BETWEEN THE POWER INJECTOR AND THE ANTENNA. DOING SO CAN CAUSE SHORTS AND PERMANENTLY DAMAGE THE ANTENNA.** This antenna has an internal amplifier, and no other amplifiers should be installed. A splitter for multiple TVs can be installed on the TV side of the power injector.

### Step 1 ■ Pre-installation Test

1. Temporarily connect a 75-ohm cable between the power injector's ANT 75-ohm jack and the antenna's F-connector.
2. Connect the power injector's TV cable to your TV's VHF/UHF 75-ohm F-connector.
3. Insert the supplied AC adapter's small DC plug into the power injector's DC 12V jack. See Step 5 "Connecting to your TV".
4. Plug the AC adapter into a standard AC outlet. If the power injector's LED lights, the antenna is properly grounded.

### Step 2 ■ Assembling the Antenna

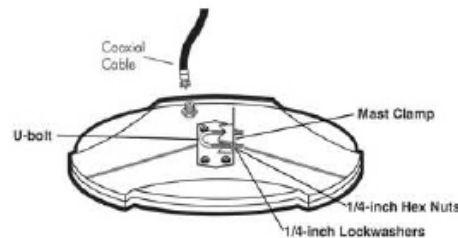
1. Attach the mounting bracket to the antenna with the #12 screws and #12 lockwashers supplied.



2. Insert the U-bolt through the mast clamp and attach the assembly to the mounting bracket with the 1/4" lockwashers and 1/4" hex nuts supplied.

3. Attach one end of a 75-ohm coaxial cable into the antenna jack and seal it with weatherproof tape or weatherboot (not supplied).

**NOTE:** We recommend RG-6 cable and, if you prepare your own cable, a quality F-connector. (Your local electronics store carries a variety of suitable cables and connectors).



### Step 3 ■ Mounting the Antenna

We recommend that you enlist the help of another person before you put up the mast or attach your antenna to it. How you set up your mast depends on your specific installation. Refer to the Consumer Product Safety Commission information on the back of these directions for recommended methods.

1. Choose a safe location on your roof, sidewall away from trees or other obstructions, or in an attic. **Note: If you install this antenna in an attic or inside the house, reception will be reduced.** You can also mount it on an RV or boat. Install the

antenna on any antenna mast or light-duty mount, or you can simply place the antenna on a closet shelf. Position the antenna so it cannot easily fall or be damaged. See the Consumer Product Safety Information on the back of these directions for installation methods.

**Note:** If you are installing the antenna on an RV or boat, you will need a 12V DC cord (not supplied).

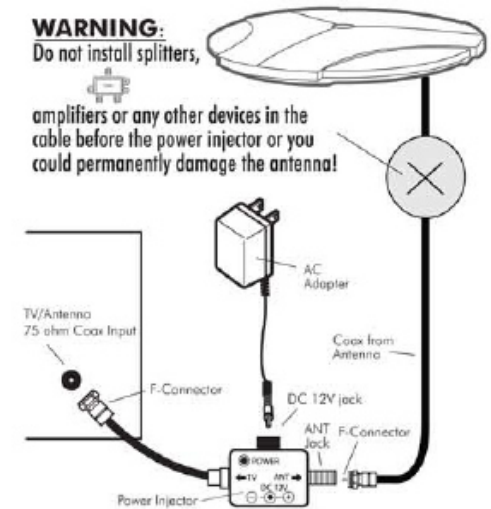
2. After mounting the antenna on a mast, secure it by tightening the hex nuts evenly onto the U-bolt.
3. Slide the antenna's mast clamp assembly over the end of the mast.
4. Tighten the mast clamp assembly hex nuts to hold the antenna in place.

### Step 4 ■ Routing the Cable to Your Audio/Video System

- Use plastic tape or mast standoff insulators to secure the coaxial cable to the mast at about 3-foot intervals. Continue down the roof and the side of the house using roof and wall standoff insulators.
- Use coaxial cable nail clips every few feet to secure the cable between the mast and where the cable enters the house.
- Use a 75 ohm grounding block where the coaxial cable enters the house. Read the Consumer Product Safety Commission Information on the back of these directions for grounding instructions.
- Loosely bend the cable to form a drip loop before the cable enters the house.
- Use a wall-through lead-in tube (not supplied) to neatly route the coaxial cable through walls.
- Do not bend the cable into less than a 3-inch radius. Tighter bends can cause shorts and change the cable's impedance.
- Do not install the cable where it will have pulling tension greater than 50 pounds. Leave no tension on the coaxial cable after installing it.
- Use only round-head staples. Any clamps or securing devices should grip the cable evenly without crushing it.
- Do not expose coax to a temperature greater than 176°F (80°C). Keep the cable away from heating vents and water heaters.
- The coax jacket withstands most outdoor environments. However, you must seal connections and splices against water entry.

**WARNING:** Do not install splitters,

amplifiers or any other devices in the cable before the power injector or you could permanently damage the antenna!



### Step 5 ■ Connecting to your TV

The cable between the power injector and antenna carries power to the antenna.

1. Connect the antenna's coaxial cable to the power injector's ANT jack. **DO NOT connect devices such as amplifiers or splitters between the power injector and the antenna. Doing so can cause a short and permanently damage the antenna.**
2. Insert the AC adapter's small plug into the power injector's DC 12V jack. Plug the AC adapter into a standard AC outlet. The power injector's LED lights to indicate a proper connection.
3. Connect the coaxial cable from the power injector to your TV's F-connector.
4. Connect the power injector's coaxial cable to your audio/video system's antenna terminals according to the types of connections you have. Your local electronics store carries a variety of splitters and other accessories; choose the one that best suits your needs.

### Limited Warranty

This product is warranted by Antennacraft against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from Antennacraft dealer.

EXCEPT AS PROVIDED HEREIN, ANTENNA-CRAFT 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, ANTENNA-CRAFT 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 INCOMPETENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF ANTENNA-CRAFT 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 sales receipt as proof of the purchase date to any ANTENNA-CRAFT dealer. ANTENNA-CRAFT 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 ANTENNA-CRAFT. 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 incidences of excess voltage or current, (b) any repairs other than those provided by an ANTENNA-CRAFT 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.

ANTENNA-CRAFT, PO Box 1005, Burlington, IA 52601, 319-758-8050 www.antennacraft.net 11/11  
Product may vary from depiction. Mast not included. 5MS921 1500288



**WARNING: INSTALLATION OF THIS PRODUCT NEAR POWERLINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS.**



**WATCH FOR POWER LINES!  
You can be KILLED if this antenna comes near electric power lines.  
READ INSTRUCTIONS.**

**IF AN ACCIDENT SHOULD OCCUR WITH POWER LINES**

1. Call for emergency help.
2. Don't touch a person who has come in contact with the antenna and the powerline (you'll be electrocuted, too).
3. If the victim is free and clear from any electric powerlines and is unresponsive, administer CPR until emergency help arrives.

**FOLLOW THESE RULES AND LIVE**

1. If you're not sure about a careful, safe installation—don't try to do it yourself. Call your local power company or check with Yellow Pages under "Antennas or Television and Radio Antenna Systems" for an installer in your area.
2. With at least two people, assemble as much of the antenna on the ground as possible.
3. Watch out for overhead power lines. Check the distance to the power lines before you start installing—**WE RECOMMEND YOU STAY A MINIMUM OF TWICE THE MAXIMUM LENGTH OF THE ANTENNA AND ITS MAST AWAY FROM ALL POWER LINES.**
4. Do not use a metal ladder.
5. Remember, even the slightest touch of an antenna to a power line can cause a fatal shock.
6. Don't try to do the job on a windy day.
7. Have a friend watch as a spotter on the ground when you're on the roof to see things you can't.
8. If you start to drop the antenna, get away from it and let it fall.
9. If any part of the antenna comes in contact with a power line **CALL YOUR LOCAL POWER COMPANY; DON'T TRY TO REMOVE IT YOURSELF!** They will remove it safely.
10. Keep mast, lead-in and metal guy wires away from power lines, too. They are all excellent conductors of electrical current.
11. Be sure everyone understands the danger of touching an overhead power line. Tell them never to try to remove any object touching a power line.
12. Make sure the antenna and mast are properly grounded.

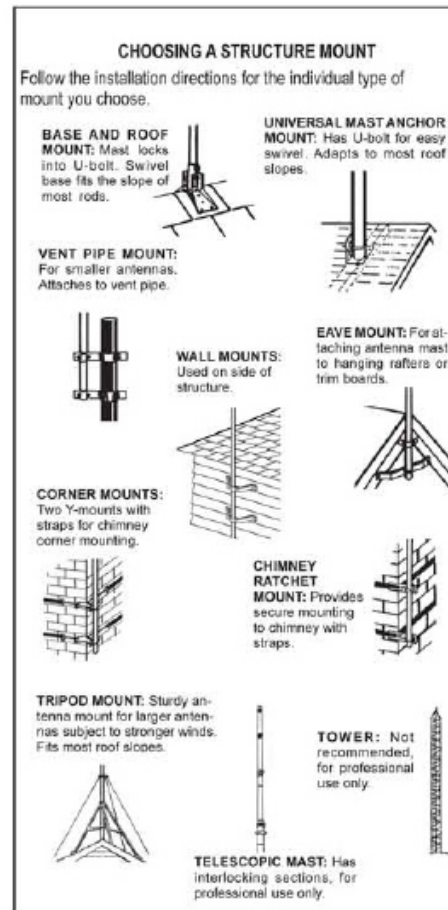
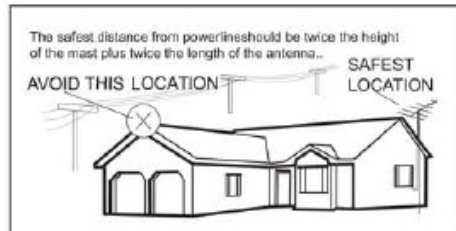
**SELECT AND MEASURE YOUR INSTALLATION SITE**

Before attempting to install your antenna, think of where you can best place your antenna for safety and performance. Most antennas are supported by pipe masts attached to the chimney, roof, or side of the house. Generally, the higher the antenna is above the ground, the better it performs. A good practice is to install your antenna about 5 to 10 feet above the roof line and away from power lines and obstructions.

Remember that the FCC limits your antenna height to 60 feet. If possible, find a mounting place directly above your set, where the antenna lead-in wire can take a short, vertical drop on the outside of the house for entry through a wall or window near the set. To determine a safe distance from wires, power lines, and trees:

1. Measure the length of your antenna.
2. Add the antenna length to the height of your tower or mast.
3. Double this total for the minimum recommended safe distance.

If you cannot maintain this safe distance, **STOP! GET PROFESSIONAL HELP.**



**GENERAL INSTALLATION DIRECTIONS FOR MAST MOUNTED ANTENNAS**

1. Assemble your new antenna on the ground at the installation site. Follow the separate assembly instructions that come with it.
2. Install the selected mount for your antenna.
3. Attach the mast and antenna to the mount.

**Note:** If you are going to use guy wires:

- Install guy wire anchor bolts
- Estimate length of guy wires and cut them
- Attach to mast using guy wire ring
- Have a second person hold the mast upright while the guy wires are attached and tightened to the anchor bolts

4. IF YOUR MAST DOES NOT HAVE A DANGER LABEL, INSTALL THE SELF-ADHERING DANGER LABEL PACKAGED IN ANTENNA HARDWARE KIT AT EYE LEVEL ON YOUR MAST.

**ANTENNA GROUNDING**

To protect your house and your TV/FM installation, your antenna system must be properly grounded.

1. Clamp a #10 copper or #8 aluminum grounding wire to the base of the antenna mast. Using standoffs every 4 to 6 feet, run the wire down the building in as straight a line as possible.
2. Attach a 75 ohm grounding block to the antenna's lead-in cable as close as possible to the point where the cable enters the house.
3. Attach the grounding wire to the lead-in cable's grounding unit and run the wire to the central building ground.

Acceptable central building ground points may include:

- Grounded interior metal cold water pipe within five feet of the point where it enters the building.
- Grounded metallic service raceway
- Grounded electrical service equipment enclosure
- 8-foot grounding rod driven into the ground (only if bonded to the central building ground by #6 or heavier bonding wire)
- Other acceptable grounding electrodes that comply with sections 250 and 810 of the National Electrical Code (NEC)

**ANTENNA REMOVAL**

To remove the antenna, follow the instructions for installing the antenna, but start with the last step first. That's the only safe way to remove an antenna.

