



## SMARTenna®

### Model 3000A UHF/VHF

# Omnidirectional Amplified Antenna

The Channel Master® SMARTenna® omnidirectional antenna provides excellent reception of UHF and VHF TV channels in most viewing locations. The modern styling is unobtrusive and blends well with the decor of homes and condominiums.

Model 3000A has omnidirectional characteristics to provide reception where stations are in different directions without the use of a rotator system.

SMARTenna® includes an internal amplifier to improve reception in weak signal locations. It is also very advantageous where the signal from the antenna is split to several TV sets.

#### SPECIFICATIONS

Bandpass	54-806 MHz
FM trap (fixed)	Attenuates 88-108 MHz
Amplifier gain	20 dB
Impedance	75 Ohm unbalanced
Power required	117 VAC 60 Hz, 4 watts
Weatherproof housing	UV protected copolymer
Mounting type	Round mast up to 1½" O.D.

**WARNING: INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS.**  
This warning issued in accordance with the recommendations of the U.S. Consumer Products Safety Commission.

#### FOLLOW THESE RULES AND LIVE:

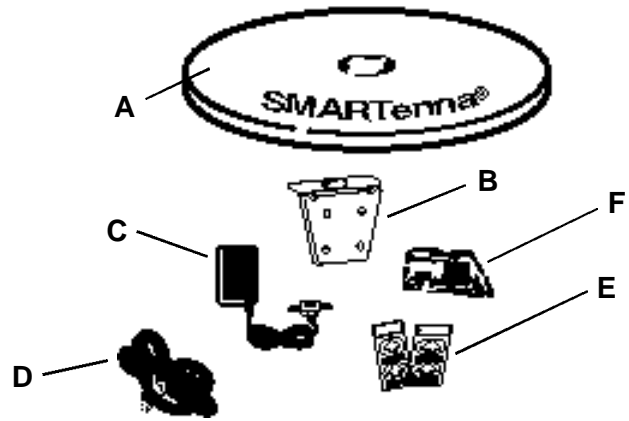
1. Perform as much antenna assembly on the ground as possible.
2. Watch out for overhead power lines. Check the distance to the power lines before you start installing—**WE RECOMMEND YOU STAY A MINIMUM OF TWICE THE MAXIMUM LENGTH OF THE ANTENNA ASSEMBLY AWAY FROM ALL POWER LINES.**
3. Do not use a metal ladder.
4. Remember, even the slightest touch of an antenna to a power line can cause a fatal shock.
5. Don't try to do the job on a windy day.
6. Have a friend as a spotter when you're on the roof. They can see things you can't.
7. If you start to drop an antenna, get away from it and let it fall.
8. If any part of the antenna should come in contact with a power line—**CALL YOUR LOCAL POWER COMPANY: DON'T TRY TO REMOVE IT YOURSELF!** They will remove it safely.
9. Mast, lead-in and metal guy wires are excellent conductors of electrical current. Keep them away from power lines too.
10. Be sure your family and friends understand the danger of touching an overhead power line. Tell them never to try to remove any object in contact with a power line — CB, TV antenna or anything else.
11. Make sure that the antenna mast assembly is properly grounded.

#### GENERAL INSTALLATION INSTRUCTIONS FOR MAST MOUNTED ANTENNAS

1. Assemble your new antenna on the ground at the installation site. Keep separate assembly instructions that come with it.
2. On the ground, clamp antenna to mast, pull enough TV lead-in and connect to antenna.
3. To ensure that a mast does not fall the "wrong way" if it should get away during installation or take down, durable non-conductive rope should be secured at each ten foot level as the mast is raised. The boss stands in a position where he can yank or pull the ropes if the need arises to deflect the falling mast away from hazards (such as power lines) into a "safe fall" (such as a yard or driveway). The ropes are tied taut at the base of the mast after installation and in place at the various levels.
4. Install selected mounting bracket.
5. If you are going to use guy wire installation instead of a mounting bracket:
  - install guy anchor bolts
  - estimate length of guy wire and cut
  - attach to mast using guy ring
6. Carefully take antenna and mast assembly to mounting bracket and insert. Tighten clamp bolts. In case of guyed installation, it will be necessary to have at least a second person hold the mast upright while the guy wires are attached and tightened to the anchor bolts.

## PARTS LIST (contains)

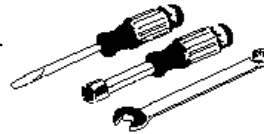
- A (1) - antenna assembly in radome housing
- B (1) - mounting racket
- C (1) - power supply and injector. Model 3037
- D (1) - 6 ft. RG59 coaxial cable
- E (1) - yellow danger label
- F (1) - hardware bag containing:
  - (2) U-bolts, (2) mast clamps,
  - (4) 5/16" slotted hex screws,
  - (4) star washers, (1) #6 x 1/2" hex screw
  - (1) weather boot



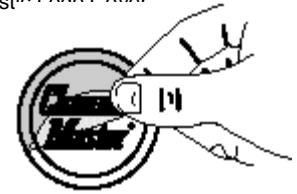
Since every installation can require various lengths of cable, cable is not included. Cable may be purchased separately. Channel Master has 25', 50', 75' and 100' hanks and 500' and 1000' spools available.

## TOOLS YOU WILL NEED

- (1) - 1/4" nutdriver (preferred) or medium slot-head screwdriver
- (1) - 5/16" nutdriver (preferred) or medium slot-head screwdriver
- (1) - 7/16" nutdriver (preferred) or 7/16" open-end wrench



Peel Away Protective Plastic Leg Cover

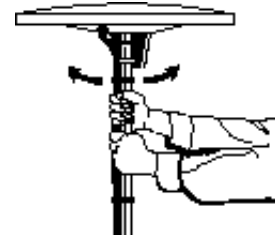


## ANTENNA MOUNTING INSTRUCTIONS

**IMPORTANT:** Risk of electrocution. Carefully read the yellow danger labels located in the corner of the antenna carton. Attach labels to the bottom of the antenna and onto the mast. Read the instructions fully to understand all warnings before attempting to install antenna.

## ANTENNA SITE SELECTION (PLACEMENT AND POINTING)

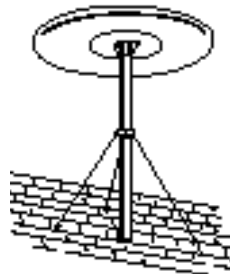
Select where the antenna is to be placed. Rotate the antenna to receive the desired reception. It may be necessary to try several antenna positions for optimum performance and to eliminate ghosting due to multi-path reception caused by signal reflections.



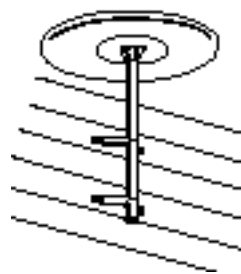
## TYPICAL HOME INSTALLATIONS



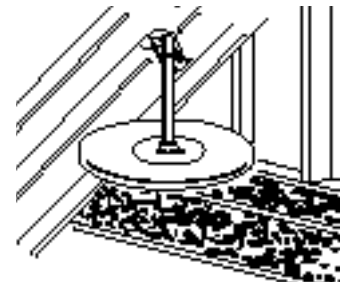
CHIMNEY MOUNT



ROOF MOUNT

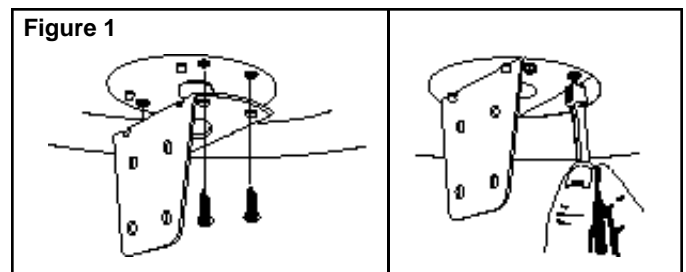


WALL MOUNT

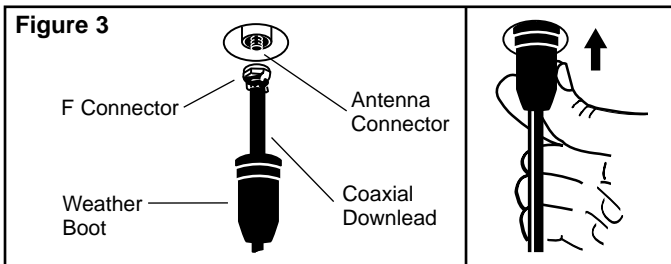
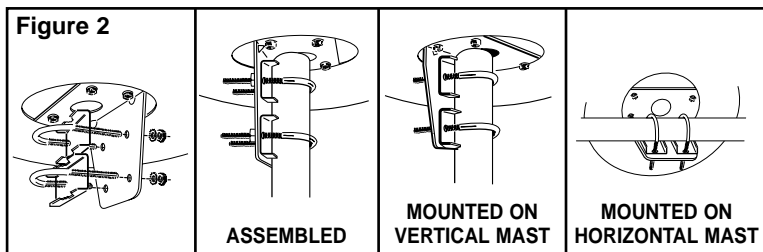


ATTIC MOUNT

**Step 1:** To attach the mounting bracket to the antenna, align bracket notches with pins on bottom of antenna as shown in **Figure 1**. With a 5/16" nutdriver and the 5/16" hex screws provided, attach bracket to bottom of antenna.

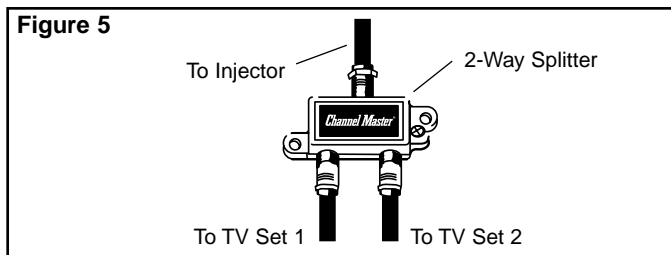
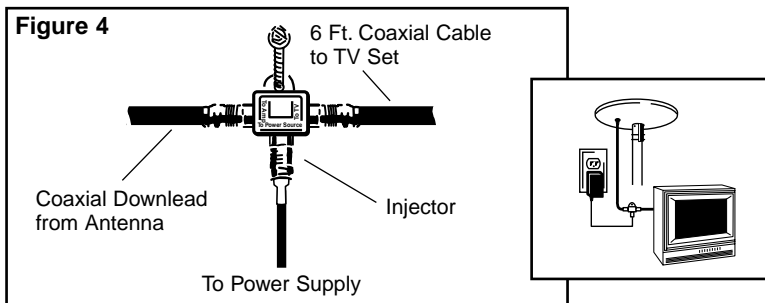


**Step 2:** To mount the antenna onto the mast, attach U-bolt assembly to mounting bracket as shown in **Figure 2**, and mount antenna to mast by tightening U-bolts with a  $\frac{7}{16}$ " nutdriver or wrench.



**Step 3:** Connect and tighten coaxial download to connector on bottom of antenna and slide weather boot snugly over boot collar as shown in **Figure 3**.

**Step 4:** Mount the power injector to a convenient surface behind the TV set using the #6  $\frac{1}{2}$ " screw provided. Connect the coaxial download from the antenna to the injector's amplifier input labeled "TO AMP." Next connect the 6 ft. coaxial cable provided from the injector output labeled "TO TV" to the TV set as shown in **Figure 4**. Plug the power supply into a 117 VAC outlet.



**Note:** When the signal is to be split to two more TV sets, connect a splitter (not provided) to the injector output "TO TV." Connect the TV sets to the split outputs using 75 ohm coaxial cable as shown in **Figure 5**. Use Channel Master 2-way (Model 3212), 3-way (Model 3213), and 4-way (Model 3214) splitters.

## LIMITED 90-DAY REPLACEMENT WARRANTY (Limited Warranty - Labor not Included)

This Channel Master® product is warranted to be free from defects in material and workmanship under normal use and service for a period of 90 days after purchase by the original purchaser. If the product does not conform to this warranty, Channel Master shall replace it if it is returned to the dealer within the 90-day warranty period, and if examination reveals to Channel Master's satisfaction that the product is defective.


Claimants under this warranty should present their claim along with the defective product, proof of purchase and the Warranty Certificate originally supplied with it, to their dealer immediately upon failure. Noncompliance with any part of this claim procedure may invalidate this warranty in whole or in part.


THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCT WHICH HAS BEEN REPAIRED OR ALTERED IN ANY WAY SO AS TO AFFECT, IN CHANNEL MASTER'S JUDGEMENT, ITS STABILITY OR DURABILITY OR WHICH HAS BEEN SUBJECTED TO ABUSE, MISUSE, OR ACCIDENT OR WHICH HAS HAD THE SERIAL NUMBER ALTERED OR REMOVED. THIS WARRANTY DOES NOT COVER PRODUCTS THAT HAVE BEEN IMPAIRED BY SEVERE WEATHER CONDITIONS SUCH AS EXCESSIVE WINDS, ICE, STORMS, LIGHTNING, OR OTHER NATURAL OCCURRENCES OVER WHICH CHANNEL MASTER HAS NO CONTROL, NOR SHALL THIS WARRANTY APPLY TO ANY PRODUCT WHICH HAS BEEN OPERATED OTHER THAN IN ACCORDANCE WITH THE INSTRUCTIONS FURNISHED BY CHANNEL MASTER.

THE REPLACEMENT OF THIS PRODUCT IS YOUR EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. YOU ARE NOT ENTITLED TO, AND CHANNEL MASTER IS NOT LIABLE FOR, INDIRECT, SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE FOREGOING LIMITATION MAY NOT APPLY TO YOU.



To prevent electrical shock, do not disassemble. No serviceable parts inside, refer servicing to qualified service personnel. This unit is for indoor use only.

 Presence of uninsulated "dangerous voltage" within the product's enclosure may be of sufficient magnitude to constitute risk of electric shock.

 Important operating and maintenance instructions are contained in the literature accompanying this product.

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

**Caution:** To prevent electrical shock, match wide blade of plug to wide slot. Fully insert.

**Note to CATV System Installer:** This reminder is provided to call the CATV system installer's attention to Article 820-22 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.

### Important Safeguards

- 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 and in the operating instructions should be adhered to.
- 4. Follow Instructions** - All operating and use instructions should be followed.
- 5. Ventilation** - The appliance should be situated so that its location or position does not interfere with proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block adequate ventilation; or placed in a built-in installation, such as a bookcase or cabinet that may impede ventilation.
- 6. Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 7. Cleaning** - Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 8. Attachments** - Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
- 9. Water and Moisture** - Do not use this product near water. For example, near a bath tub, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- 10. Accessories** - Do not place this video product on an unstable cart, sand, tripod, bracket, or table. This video product may fall, causing serious injury to a child or adult, and serious damage to the appliance.
- 11. Power Source** - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
- 12. 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 attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. Overloading** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 14. Lightning** - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall output and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power line surges.
- 15. Object and Liquid Entry** - Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

**16. Servicing** - Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**17. Damage Requiring Service** - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A.** When the power cord or plug is damaged.
- B.** If video product has been exposed to rain or water.
- C.** If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
- D.** If the video product has been dropped or the cabinet has been damaged.
- E.** When the video product exhibits a distinct change in performance, this indicates a need for service.

**18. Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

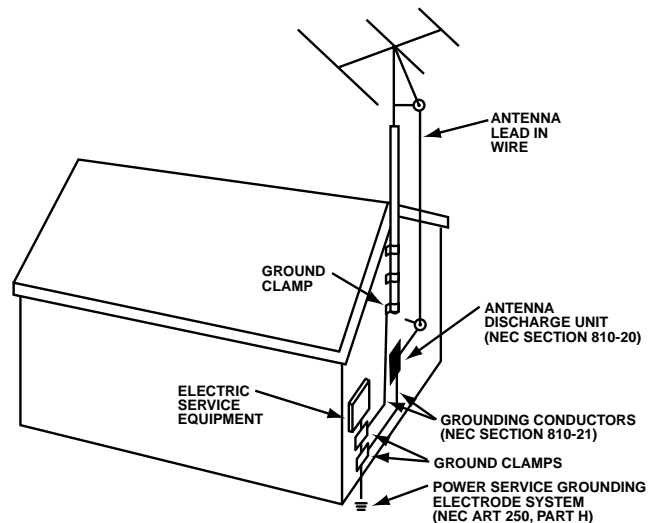
**19. Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

**20. Grounding or Polarization** - This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**21. Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**22. Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 79-1993, provides information with respect to proper grounding of the mast and supporting structure grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 - "RADIO AND TELEVISION EQUIPMENT"



NEC - NATIONAL ELECTRICAL CODE