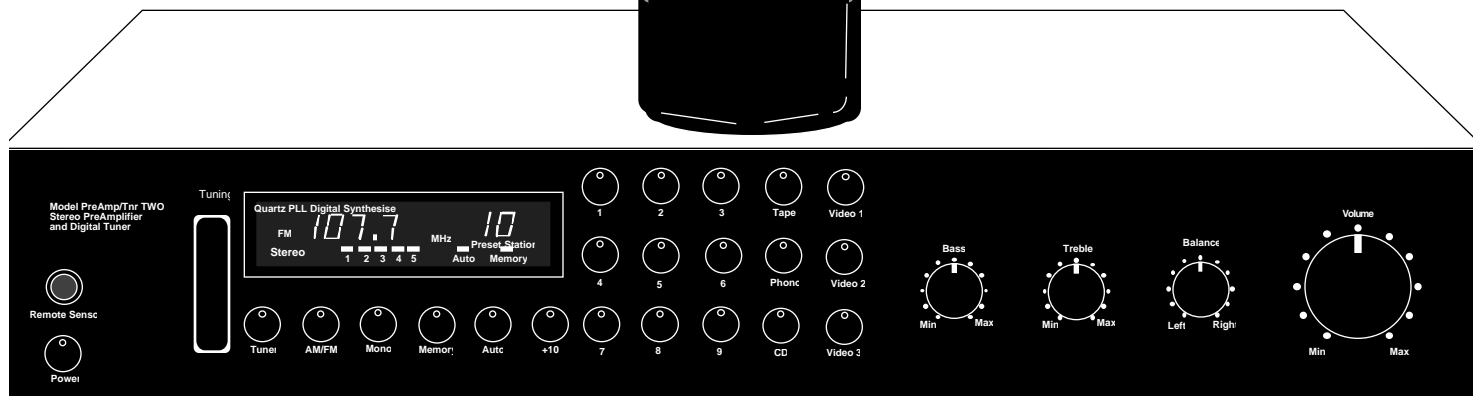
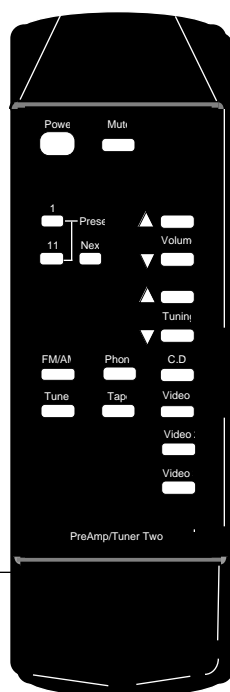
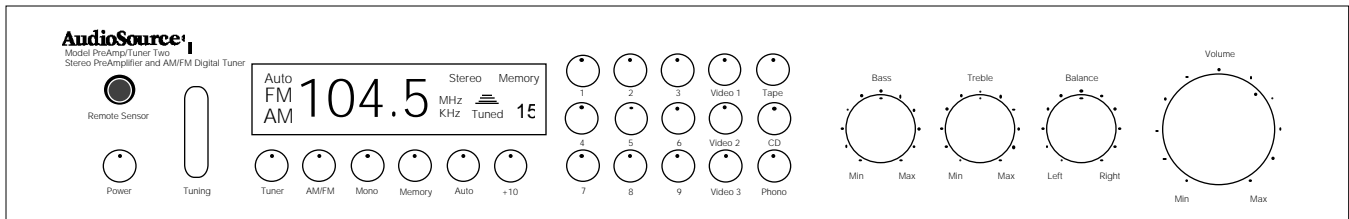


# PreAmp/Tuner Two

Stereo PreAmplifier and  
AM/FM Digital Tuner with Wireless  
Remote Control



Congratulations on your new purchase, and welcome to the AudioSource family of satisfied customers. We trust that you will continue to enjoy the value and quality of your AudioSource PreAmp/Tuner Two. In order to make sure that you are experiencing the best performance from your component, please take a few moments to read this manual before you get started. Also, be sure to retain this manual should you need to refer to it in the future.



# Using The Controls



**Power :** Press this button to Turn "ON" the A.C. power to the PreAmp/Tuner Two. The Red LED indicator will remain lit when the unit is ON.



**Tuning :** Press the TOP END of this button to RAISE the frequency of the AM/FM tuner. Press the BOTTOM END of this button to LOWER the frequency of the AM/FM tuner.



**Tuner :** Press this button to select the Tuner as your input source. The Red LED will indicate your selection.



**AM/FM :** Press this button to select between AM and FM bands. The Red LED and Display window will indicate your selection.



**Mono :** Press this button to receive a station in "Mono". This Button is useful for "weak" or "hard to capture" FM stations.



**Memory :** Press this button when entering stations into the tuner's "Memory". When you've found a station to store into the tuner's memory, Press this button once, and then press the numbered buttons (#1 to #9)



**Auto :** Press this button to choose between "Automatic" or "Manual" tuning of radio stations. In the "Auto" mode, the tuner will scan directly from station to station, every time the "Tuning" button is pushed. In the "Manual" mode, the tuner will advance "up" or "down" incrementally, every time the "Tuning" button is pushed.



**+10 :** Push this button "In" to access the Tuner Presets #11 to #19. Keep this button in the "Out" position to access the Tuner Presets #1 to #9.



**#1 to #9 :** Push these numbered buttons to listen to "Memorized" stations, or to enter stations into "Memory".



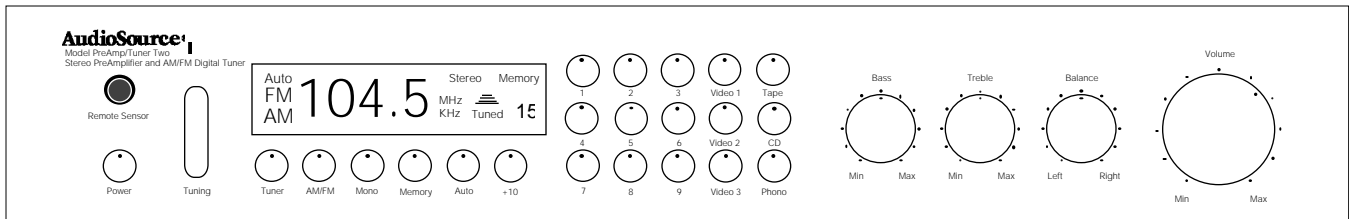
**Video 1 :** Press this button to select "Video 1" as your input source. The Red LED will indicate your selection.



**Video 2 :** Press this button to select "Video 2" as your input source. The Red LED will indicate your selection.



**Video 3 :** Press this button to select "Video 3" as your input source. The Red LED will indicate your selection.



# Using The Controls



Tape

**Tape :** Press this button to select "Tape" as your input source. The Red LED will indicate your selection. *Press this button simultaneously with any other "Input Source" button to activate the "Tape Monitor" loop, allowing the signal to travel to a graphic equalizer or outboard processor, and return to the PreAmp/Tuner Two.*



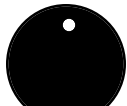
C D

**CD :** Press this button to select "CD" as your input source. The Red LED will indicate your selection.



Phono

**Phono :** Press this button to select "Phono" as your input source. The Red LED will indicate your selection.



Bass

**Bass :** Turn this control to the right to increase the amount of "Bass" or "low frequencies". Turn this control to the left to decrease the amount of "Bass" or "low frequencies". The "12:00 Position" indicates a "Flat Response".



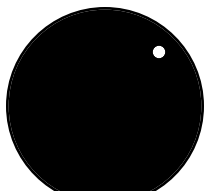
Treble

**Treble :** Turn this control to the right to increase the amount of "Treble" or "high frequencies". Turn this control to the left to decrease the amount of "Treble" or "high frequencies". The "12:00 Position" indicates a "Flat Response".



Balance

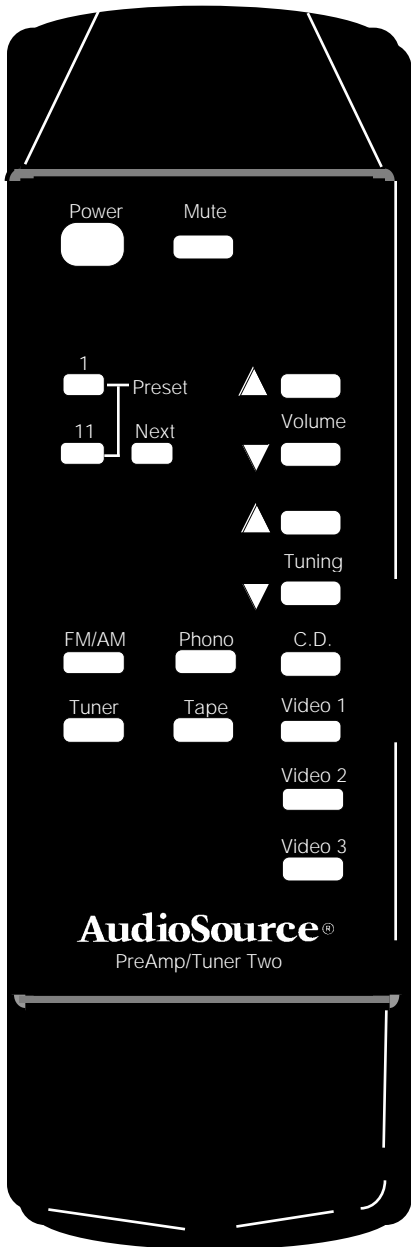
**Balance :** Turn this control to the left to increase the volume of the left channel, while decreasing the volume of the right channel. Turn this control to the right to increase the volume of the right channel, while decreasing the volume of the left channel. The "12:00 position" indicates identical volume from both channels.



Volume

**Volume :** Turn this control to the right to increase the overall system volume. Turn this control to the left to decrease the overall system volume. This function is also available from the Wireless Remote Control.

# Using The Wireless Remote Control



**Power :** Press this button to Turn "ON" the A.C. power to the PreAmp/Tuner Two.

**Mute :** Press this button to "Mute" the volume of the system. All presets will be remembered - including the previous system volume.

**Volume :** Press the **top** button to **raise** the volume of the system. Press the **bottom** button to **lower** the volume of the system. The motorized Volume control's red LED and automatic movement will confirm your selection.

**Tuning :** Press the **top** button to **raise** the frequency of the AM/FM tuner. Press the **bottom** button to **lower** the frequency of the AM/FM tuner.

**Preset #1 & #11" :** Press #1 to select a Tuner preset between #1 and #9 . Press #11 to select a Tuner preset between #11 and #19.

**Next :** Used alongside the "Preset #1 & #11" buttons, this button will advance to the "Next" Tuner preset station. For instance, either #1,2,3,4, etc., or #11,12,13,14, etc.

**FM/AM :** Press this button to select between AM and FM bands on the Tuner.

**Phono :** Press this button to select the Phonograph as your input source.

**C.D. :** Press this button to select the C.D player as your input source.

**Tuner :** Press this button to select the Tuner as your input source.

**Tape :** Press this button to select the Tape Recorder as your input source. *Press this button simultaneously with any other "Input Source" button to activate the "Tape Monitor" loop, allowing the signal to travel to a graphic equalizer or outboard processor, and return to the PreAmp/Tuner Two.*

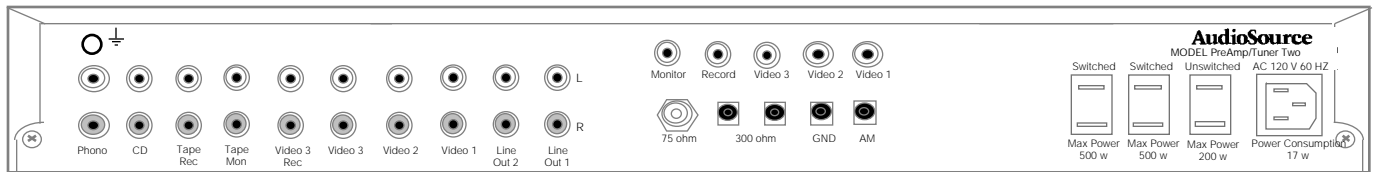
**Video 1 :** Press this button to select "Video 1" as your input source.

**Video 2 :** Press this button to select "Video 2" as your input source.

**Video 3 :** Press this button to select "Video 3" as your input source.

# Hooking It All Up

All Components plug into the "RCA style" jacks on the rear panel of the PreAmp/Tuner Two.



## THESE CONNECTIONS ARE PICTURED IN "SET-UP DIAGRAM #1"

### Audio Connections

**Phono:** Plug the "Line Out" jacks of your turntable into these jacks.

**C.D. :** Plug the "Line Out" jacks of your C.D. Player into these jacks.

**Tape Mon. :** Plug the "Line Out" (Play) jacks of your cassette deck into these jacks.

**Tape Rec. :** Plug the "Line In" (Rec.) jacks of your cassette deck into these jacks.

**Video 1 :** Plug the "Line Out (audio)" jacks of your "Video 1 component" (TV/Monitor) into these jacks.

**Video 2 :** Plug the "Line Out (audio)" jacks of your "Video 2 component" (Laserdisk) into these jacks.

**Video 3 :** Plug the "Line Out (audio)" jacks of your "Video 3 component" (Stereo VCR) into these jacks.

**Video 3 Rec. :** Plug the "Line In (audio)" jacks of your "Video 3 component" (Stereo VCR) into these jacks.

**Line Out 1 :** Plug these jacks into the "Line In" jacks of a stereo power amplifier.

**Line Out 2 :** These jacks are provided as a convenience. They may be used to send the original signal to another amplifier, or a powered subwoofer.

### Video Connections

**Monitor :** Plug the "Video In" jack of your T.V. Monitor into this jack.

**Record :** Plug the "Video In" jack of your "Video 3 component" into this jack.

**Video 3 :** Plug the "Video Out" jack of your "Video 3 component" into this jack.

**Video 2 :** Plug the "Video Out" jack of your "Video 2 component" into this jack.

**Video 1 :** Plug the "Video Out" jack of your "Video 1 component" into this jack.

**Note:** When using an outboard processor or graphic equalizer, follow the additional connections in "Set-up Diagram #2". All other connections are identical to "Set-up diagram #1".

## THESE CONNECTIONS ARE PICTURED IN "SET-UP DIAGRAM #2"

### Audio Connections

**1. Tape Mon. :** Plug the "Line Output" jacks of your outboard processor into these jacks.

**2. Tape Rec. :** Plug the "Line Input" jacks of your outboard processor into these jacks.

**3.** Plug the "Line in" jacks of your cassette deck into the "Tape 1 Rec" jacks of your outboard processor.

**4.** Plug the "Line Out" jacks of your cassette deck into the "Tape 1 Play" jacks of your outboard processor.

**Note:** In this type of system, you can listen to your cassette deck by pressing the "Tape Monitor" switch on your outboard processor.

## PreAmp/Tuner Two Specifications

Total Harmonic Distortion:-----	<0.008%
Output with <0.008%:-----	1.5 V
Frequency Response:-----	10 Hz to 100K Hz, ±0.5 dB
Signal to Noise Ratio:-----	100 dB Line
	75 dB Phono
	76 dB (FM/Mono)
	70 dB (FM/Stereo)
	60 dB (AM)
Input Sensitivity:-----	150 MV (Line)
	2.5 MV (Phono)
Input Impedance:-----	47K
Alternate Channel Selectivity (FM) :-----	65 dB
Image Rejection (FM):-----	70 dB
Capture Ratio (FM):-----	1 dB
T.H.D.(FM):-----	Mono 0.2%
	Stereo 0.4%
Image Rejection (AM) at 1000 kHz:-----	40 dB
IF Rejection (AM) at 1000 kHz:-----	60 dB
Inputs:-----	Phono
	CD
	Tape
	Video 1
	Video 2
	Video 3
Outputs:-----	Line Out 1 (L,R)
	Line Out 2 (L,R)
	Tape Rec.(Audio)
	Video 3 Rec.(Audio)
	Video 3 Rec.(Video)
	Monitor Out (Video)
Dimensions: .....	2 3/4" (H) x 16 1/2" (W) x 12" (D)
Weight:.....	11 Lbs.

*Designs and Specifications subject to change without notice*

## AudioSource

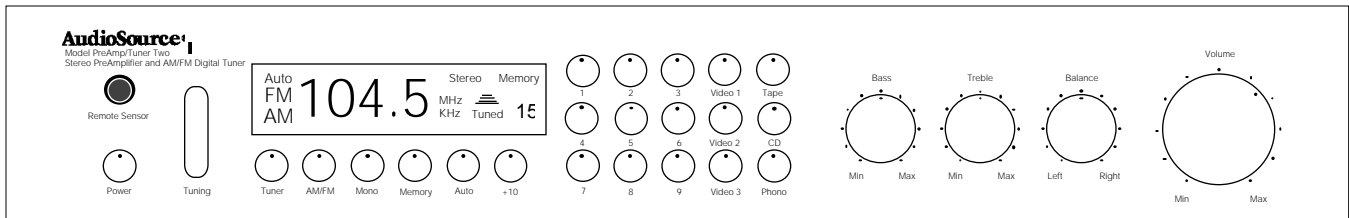
9300 North Decatur

Portland, OR 97203

(503) 286-9300 FAX(503) 978-3302

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# AudioSource



## A Few Words About Your New PreAmp/Tuner Two

We at AudioSource would like to thank you for purchasing the PreAmp/Tuner Two. You can take pride in owning this quality crafted unit; we take pride in having built it. We've combined the most useful features of a Stereo PreAmplifier and AM/FM Digital Tuner into a single low profile unit, that will become the control center for your Audio/Video system. You can connect a broad array of components to the PreAmp/Tuner Two, and make your input selections from the front panel buttons, or the Wireless Remote Control.

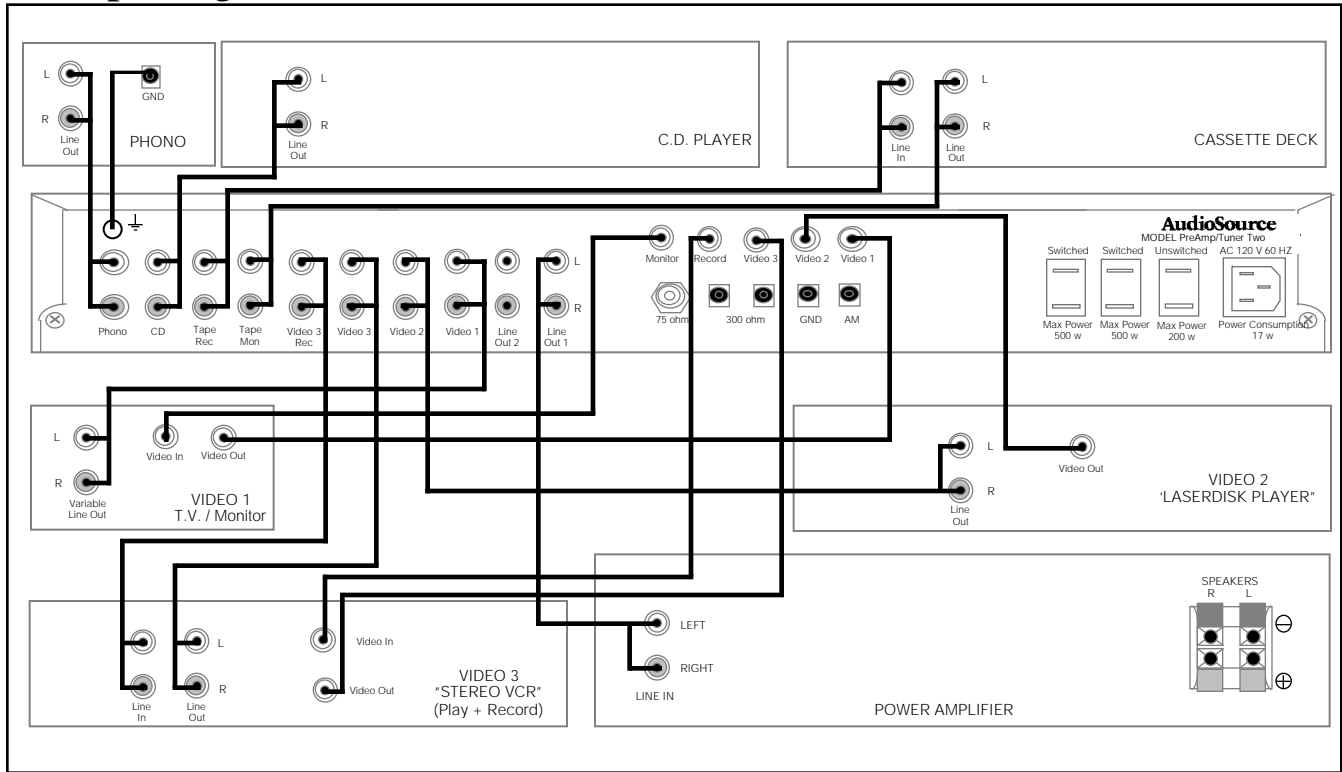
The PreAmplifier section features versatile switching and dubbing capabilities, since we've included Audio **and** Video jacks for the 3 Video sources. A Video Output jack for the TV Monitor is also provided. Two sets of Master Line Outputs allow for direct Subwoofer connection, or multiple amplifiers within the system. Three sets of A.C. power inputs permit direct connection of system components.

The Tuner section features 18 random station presets, with precise control over all parameters. Quartz Digital Phase Lock Loop tuning assures pinpoint accuracy and absolute signal clarity. The Auto-Scanning function switches to Manual tuning, and the 18 station presets can be accessed from the remote control. The large Digital Display accurately shows all necessary parameters, such as Frequency, Signal Strength, Stereo or Mono, Auto or Manual tuning mode, and Memory position.

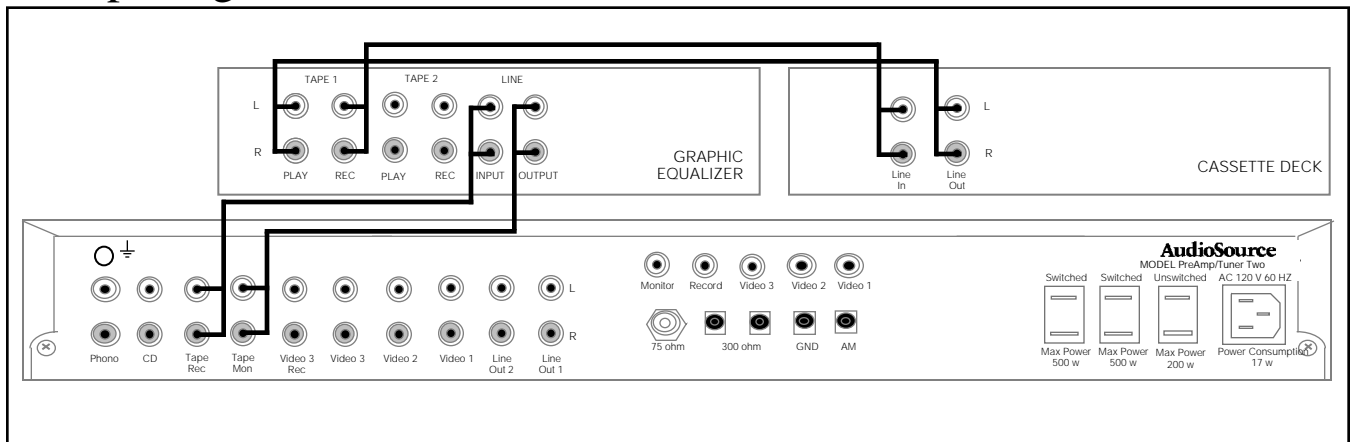
All AudioSource electronic components carry a full Two-Year warranty. Please read your warranty. It is valuable to you as well as any subsequent owner during the term of the warranty. The transferability of the warranty is an unusual feature, and that is why we claim we warrant the product, not just the purchaser. We have tried to supply as much information as possible, but if you need further assistance, please call our Toll-Free customer service telephone line at 1-800-HELP-115.

# Hooking It All Up

## Set-up Diagram #1



## Set-up Diagram #2



**Note: All other connections are identical to "Set-up Diagram #1"**



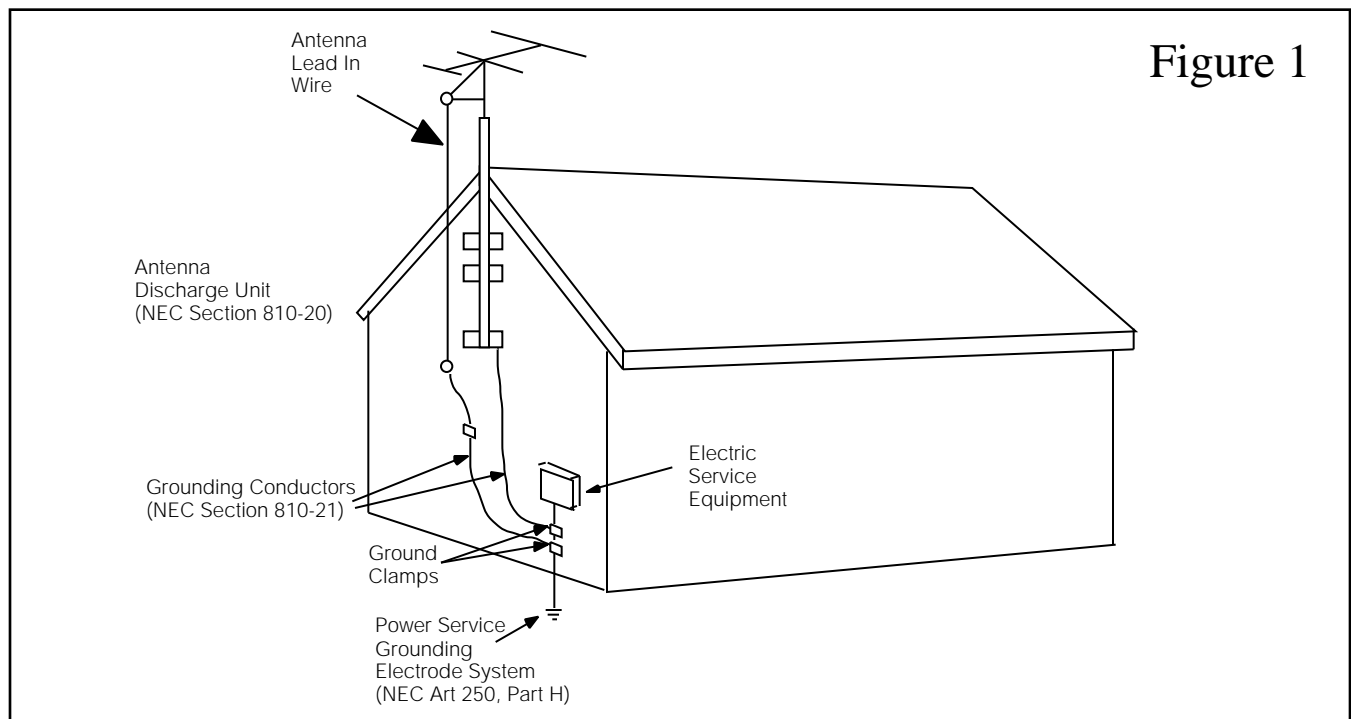
# Using the Antennas

**FM "T" Type Antenna** - If the PreAmp/Tuner two is to be used in a strong FM signal area, a "T" type antenna (dipole) may provide adequate reception. To connect this antenna, attach its leads to the 300 Ohm terminals, fully extend the upper sections of the "T", and position them for greatest sensitivity (maximum indication of the "Tuned" indicators when tuned to a broadcast station). In weak signal areas, a roof-top FM antenna will be required. A 3-element antenna is generally sufficient for medium distances and an antenna with 5 or more elements may be required for long distances and fringe areas. Two types of outdoor antenna cables are available: 300 Ohm balanced antennas and 75 Ohm unbalanced antennas. 300 Ohm antennas use the same flat twin lead used by most TV antennas. 75 Ohm antennas use a coaxial cable: these antennas are recommended for use in high interference areas such as adjacent to a road where ignition noise may be present. When installing a roof-top antenna, check that it is pointing in the direction from which most stations are received. **Do not connect antenna leads to both the 75 and 300 Ohm inputs at the same time.** Use only the terminals corresponding to the antenna cable being used.

**AM Loop Antenna** - In an area where signals are strong, near to the broadcast stations, the AM Loop antenna provided on the rear panel may be adequate. This antenna is effective in all areas except those where the signal strength is very low, or in buildings made from reinforced concrete. Position this antenna so that as many "Tuned" indicators as possible are lighted when tuned to an AM broadcast.

**Outdoor Antenna** - If you have difficulty in receiving clear AM broadcasts using the Loop antenna, connect an external antenna to the AM terminals. Set this antenna outdoors, as high as possible. Do not disconnect the provided AM Loop antenna.

**Outdoor Antenna Grounding** - If an outside antenna is to be used with the PreAmp/Tuner Two, be sure that the antenna 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. 70-1984, provides information concerning supporting structure, grounding of the lead in wires to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connections to grounding electrodes, and requirements for the grounding electrode. See figure 1.



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