

# Color Television

## Operating Instructions

Panasonic®



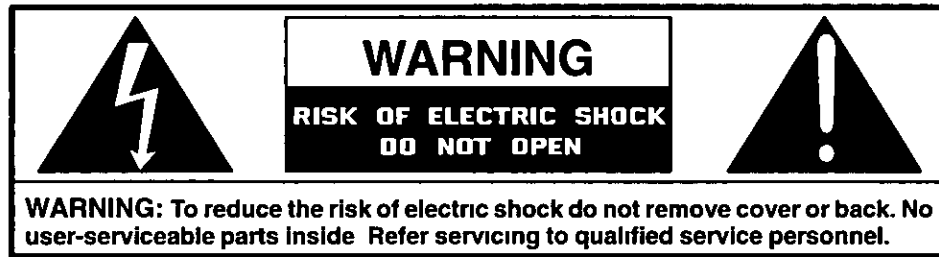
**CT-31XF43**

Read these instructions completely before operating this set.  
Contents subject to change without notice or obligation.

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# Safety Instructions



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons

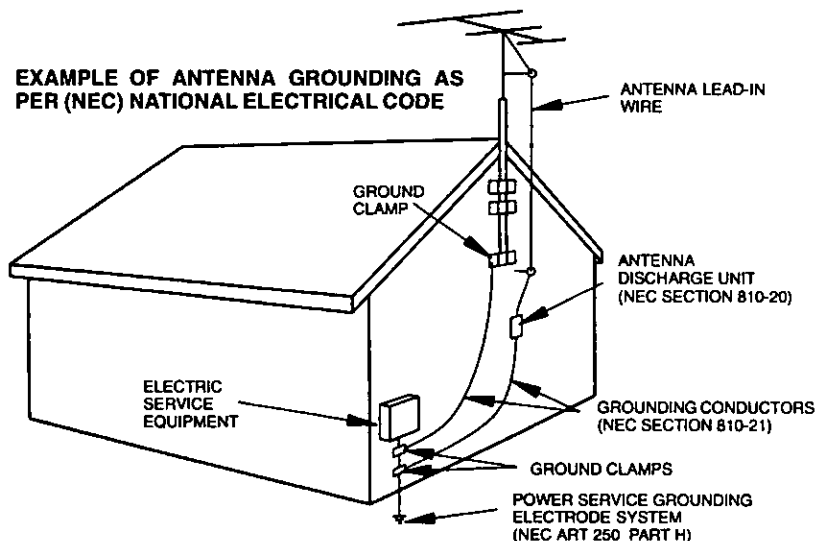


The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance

**Note To CATV System Installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 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

## Safety Instructions For Television Receivers

- 1 Read and apply the operating instructions provided with your television receiver
  - 2 Read all of the instructions given here and retain them for later use
  - 3 Unplug this television receiver from the wall outlet before cleaning Do not use liquid or aerosol cleaners Use a damp cloth for cleaning
  - 4 Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards
  - 5 Do not use this television receiver near water For example Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc
  - 6 Do not place this television receiver on an unstable cart, stand or table The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer
- 6A An appliance and cart combination should be moved with care Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn
- 7 Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating These openings must not be blocked or covered The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface This television receiver should never be placed near or over a radiator or heat register This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided
  - 8 Operate only from the type of power source indicated on the marking label If you are not sure of the type of power supplied to your home consult your television dealer or local power company For television receivers designed to operate from battery power, refer to the operating instructions
  - 9 This television receiver 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
  - 10 Do not allow anything to rest on the power cord Do not locate this television receiver where the cord will be abused by persons walking on it
  - 11 Follow all warnings and instructions marked on the television receiver
  - 12 Do not overload wall outlets and extension cords as this can result in fire or electric shock
  - 13 Never push objects of any kind into this television receiver through cabinet slots 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 television receiver



- 14 If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
- 15 For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.
- 16 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.
- 17 Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
  - a When the power cord or plug is damaged or frayed
  - b If liquid has been spilled into the television receiver
  - c If the television receiver has been exposed to rain or water
  - d If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
  - e If the television receiver has been dropped or the cabinet has been damaged
  - f When the television receiver exhibits a distinct change in performance – this indicates a need for service.
- 18 Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19 When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20 Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- 21 **WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.**
- 22 **CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE**

**NOTE:** This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

**Important Information Regarding Use of Video Games, Computers, Teletext or Other Fixed Image Displays.**

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

- A Reduce the brightness/contrast setting to a minimum viewing level
- B Do not display the fixed image for extended periods of time
- C Turn the power off when not in actual use

**NOTE:** The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

## Specifications

- Power Source:** 120V, 60Hz, AC
- Channel Capability:** 181 channels (See chart)  
VHF 2-13, UHF 14-69, Cable 125 channels
- Video Input Jacks (3):** 1V p-p, 75 ohm, phono jack type
- Audio Input Jacks (3):** 500mV rms, 47K ohm
- To Audio AMP Jacks:** 0-2.0V rms 4.7K ohm
- S-VHS Input Jack (1):** S-Video (Y-C) Connector
- Picture In Picture:** 2 Tuner
- StarSight** Interactive Program Guide
- Stereo Sound**
- Surround Sound**
- Closed Caption Display**

### Channel Capability Chart

| BAND                  | USA/CAN    |
|-----------------------|------------|
| VHF                   | 12         |
| UHF                   | 56         |
| CABLE (Mid-Band)      | 15         |
| CABLE (Super Band)    | 14         |
| CABLE (Hyper Band)    | 28         |
| CABLE (Ultra Band)    | 56         |
| <b>TOTAL CHANNELS</b> | <b>181</b> |

Specifications are subject to change without notice or obligation.

# Introduction

## Congratulations on Your New Purchase

Your new video component features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new video component, please read and follow the installation and operating instructions supplied with this product.

### Customer's Record

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

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Your new Panasonic Television comes equipped with the StarSight system. A StarSight Subscription is required to activate this system. Please refer to the StarSight Installation Guide in this manual for information about activating and subscribing to StarSight.

To use StarSight, please refer to the StarSight Operating Guide that was packaged along with this Television Set.

Your Panasonic television that is equipped with the StarSight® System is not designed to operate with, or control, a satellite dish. For information on StarSight products specifically designed for satellite systems, see your local satellite dealer.

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To be licensed to use the StarSight System and the StarSight features of this equipment, you must be registered with StarSight or an authorized representative. StarSight® features licensed under one or more of the following U.S. patents: 4,706,121; 5,151,789; 5,335,277; 5,353,121; 5,479,266; and 5,479,268; Use rights reserved.

StarSight is not in any way liable for the accuracy of the program schedule information provided by the StarSight System. In no event shall StarSight Telecast, Inc. be liable for any amounts representing loss of profits, loss of business, or indirect, special, or consequential damages in connection with the provision or use of any information, equipment, or services relating to the StarSight System.

# Installation

## Receiver Location

This unit is intended to be used with an optional stand or entertainment center. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

Use of some types of fluorescent lighting can reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

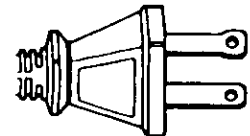
## Optional External Equipment Connections

The Video/Audio connections between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply house.

Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

## AC Power Supply Cord

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot of ac outlet and fully insert. Do not use this (polarized) plug with a receptacle or other outlet unless the blade can be fully inserted to prevent blade exposure.



Polarized Plug

## Remote Control Battery Installation

Requires two "AA" batteries.

- 1 Turn the Transmitter face down. Remove top cover by pressing down on marking and sliding cover off in the direction indicated.
- 2 Install the batteries as shown in the battery compartment. (Polarity (+) or (-) must match the markings in the compartment.)
- 3 Replace the cover and slide in reverse until the lock snaps.

### Helpful Hint:

For frequent Remote Control users, replace old batteries with Alkaline batteries for longer life.

**Note:** In order to maximize the life of the batteries, the lighted buttons on the Remote Control can be turned OFF and ON by pressing R-TUNE and RECALL at the same time.

### Precaution on Battery Use

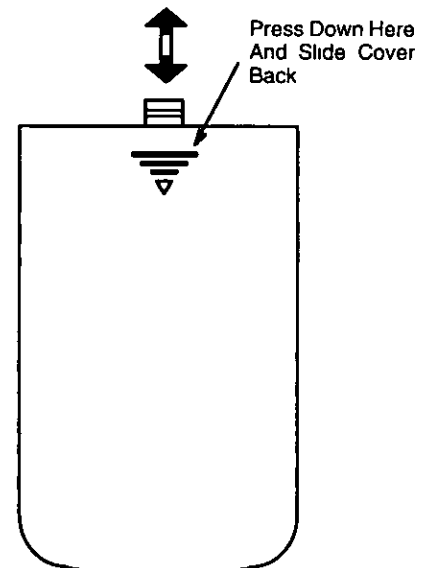
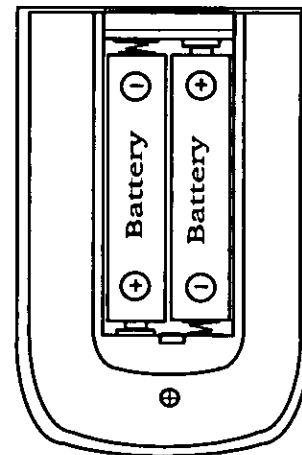
Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control Transmitter.

#### Observe the Following Precautions:

- 1 Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
- 2 Do not combine a used battery with a new one.
- 3 Do not mix battery types (Example "Zinc Carbon" with "Alkaline").
- 4 Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5 Battery replacement is necessary when Remote Control acts sporadically or stops operating the Receiver.

### Helpful Hint:

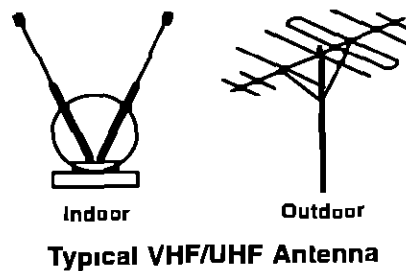
Whenever you remove the batteries to replace them, you may need to reset the Remote Control Infrared Codes. We recommend that you record the codes on page 42, prior to setting up the remote.



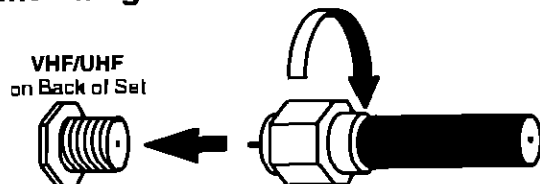
## Installation (cont.)

### Antenna/Cable Connections

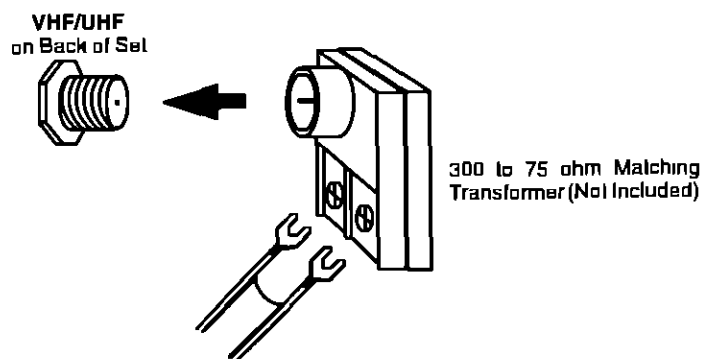
**Antenna Connection** – For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended. Antenna Mode must be set to TV (Refer to Antenna Mode section.)



### Incoming Cable From Home Antenna (75 Ohm)

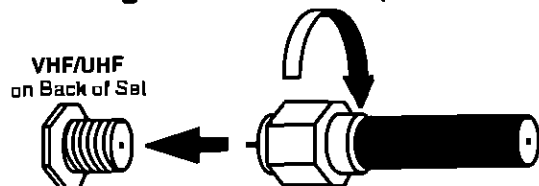


### Incoming Cable From Home Antenna (300 Ohm)



**Cable Connection** – For reception of cable channels (01–125) connect the cable supplied by your local cable company. Antenna Mode must be set to CABLE (Refer to Antenna Mode section.)

### Incoming 75 Ohm Cable (From Cable Company)



**NOTE:** Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for its compatibility requirements.

### Other Video Equipment

VCRs, Video Disc Players, Computers, TV games, and Teletext equipment can also be connected to the antenna input connection.

# Installing Your StarSight TV Set

- 1 Determine if a Cable Box or VCR is going to be connected to the TV
- 2 Connect the TV according to the following illustrations
- 3 Turn the equipment on (TV, Cable Box, VCR) and set up the TV mode and antenna input using the *SET UP FEATURES* and *INPUT SELECT* sections of this manual
  - Antenna users, please select "TV" in the SET UP menu
  - Cable users, please select "CABLE" in the SET UP menu
  - If a Cable Box is used, select "ANT 2" in the INPUT SELECT menu and tune the TV to the appropriate channel for the Cable Box (usually channel 3 or 4)
  - If no Cable Box is used, select "ANT 1" in the INPUT SELECT menu
- 4 Follow the instructions in the *StarSight Installation and Activation Guide* located in the back of this manual to complete StarSight activation

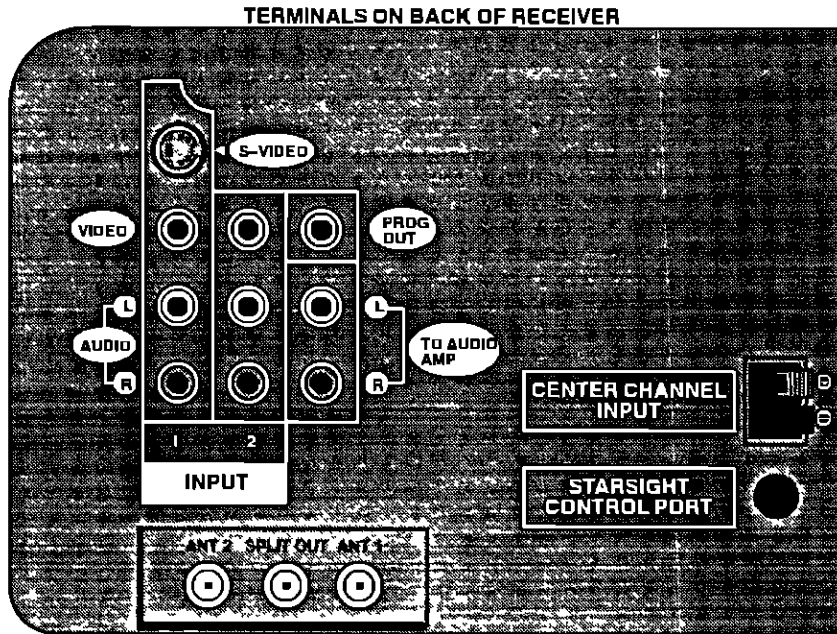
## StarSight Antenna and External Video Connection

The following shows the standard StarSight connections which can be used for most situations

**Note:** This Receiver has the "PICTURE IN PICTURE" feature that uses two (2) tuners. This allows you to watch two (2) live broadcasts at the same time without an external video source. No special connections are required for PIP.

## StarSight Antenna Connection (No Cable Box or VCR)

Use this configuration when connecting the TV directly to the antenna or Cable TV system (without a Cable Box). Be sure to select the correct mode (see the *Set Up Features* section in this Manual for details)



- 1 Connect the cable from the antenna (or cable system) to the ANT 1 terminal on the back of the TV

← To ANT Terminal

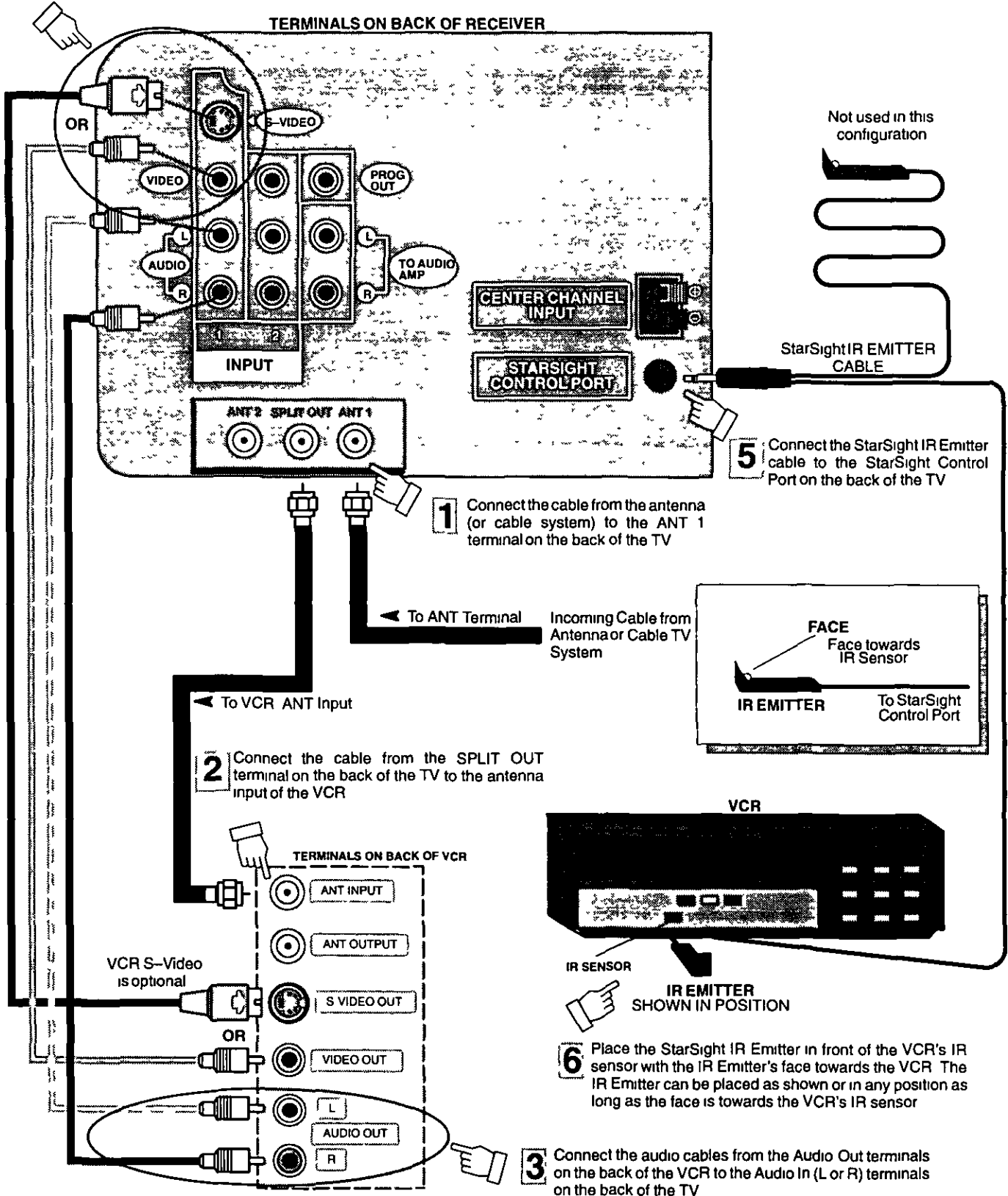
Incoming Cable from  
Antenna or Cable TV  
System



# StarSight Antenna Connection (VCR, no Cable Box)

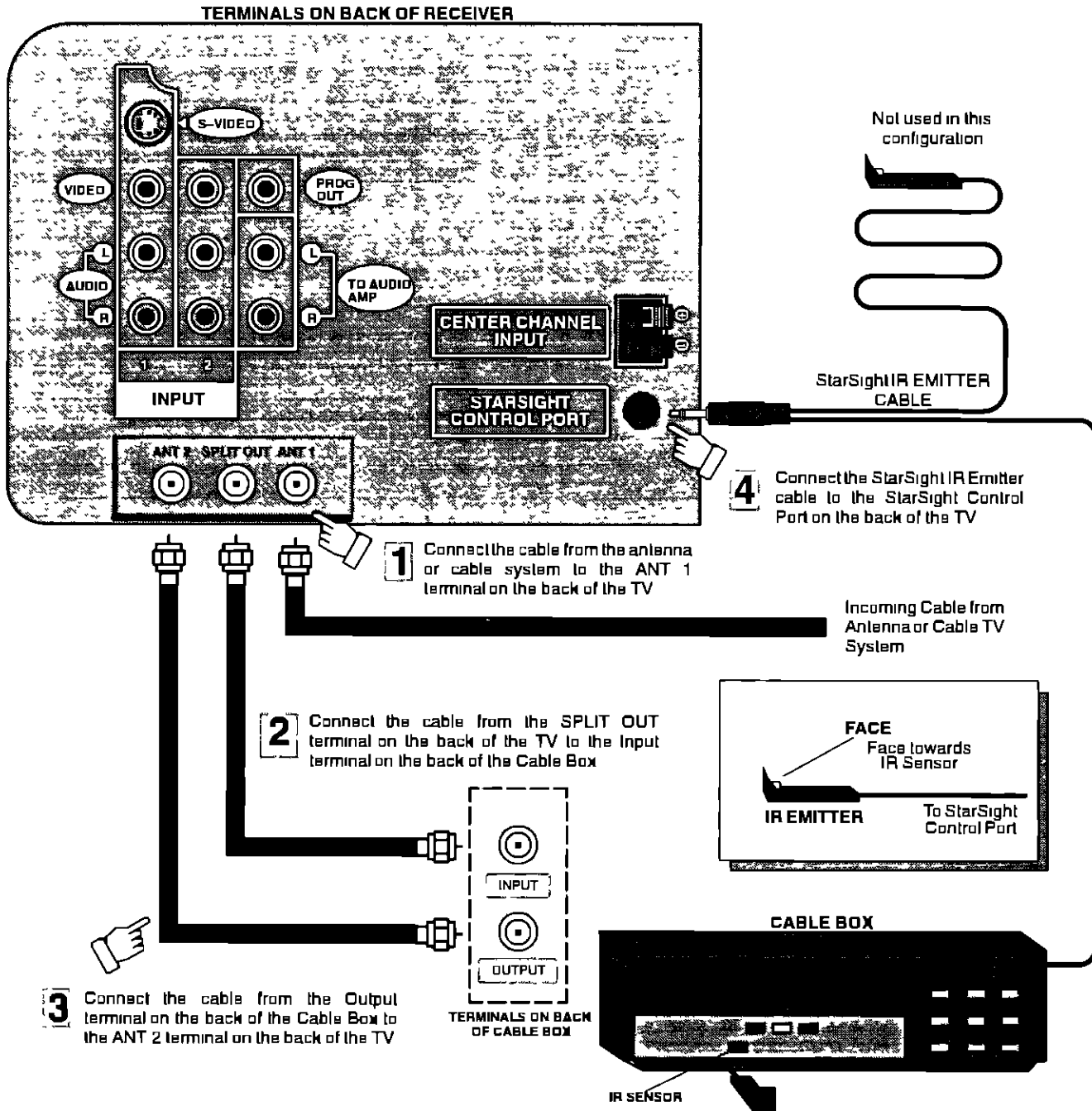
Use this configuration when connecting a VCR to the TV, when the TV is connected directly to the antenna or Cable TV system (without a Cable Box) Be sure to select the correct mode (see the *Set Up Features* section in this Manual for details)

- 4** Connect the video cable from the Video Out terminal on the back of the VCR to the Video In terminal on the back of the TV. If connecting S-Video, connect the S-Video cable instead of the standard video cable



# StarSight Antenna Connection (Cable Box, no VCR)

Use this configuration when connecting the TV to the Cable TV system using a Cable Box. Be sure to select ANT 2 and Cable Mode (see the *Input Select* and *Set Up Features* sections in this Manual for details)



**1** Connect the cable from the antenna or cable system to the ANT 1 terminal on the back of the TV

**2** Connect the cable from the SPLIT OUT terminal on the back of the TV to the Input terminal on the back of the Cable Box

**3** Connect the cable from the Output terminal on the back of the Cable Box to the ANT 2 terminal on the back of the TV

**4** Connect the StarSight IR Emitter cable to the StarSight Control Port on the back of the TV

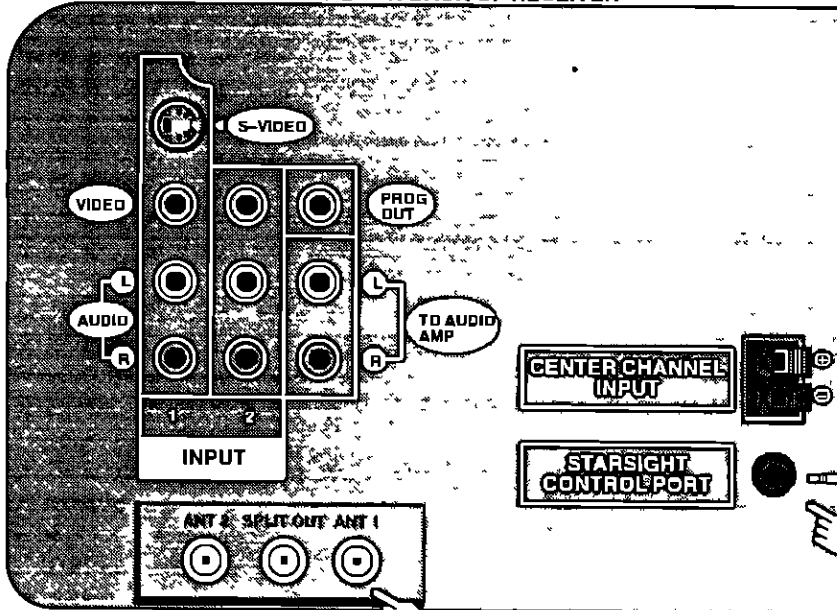
**5** Place the StarSight IR Emitter in front of the Cable Box's IR sensor with the IR Emitter's face towards the Cable Box. The IR Emitter can be placed as shown or in any position as long as the face is towards the Cable Box's IR sensor

**Helpful Hints:**  
The StarSight IR Emitter should be placed no less than 2 to 3 inches in front of the equipment's IR sensor for optimum performance

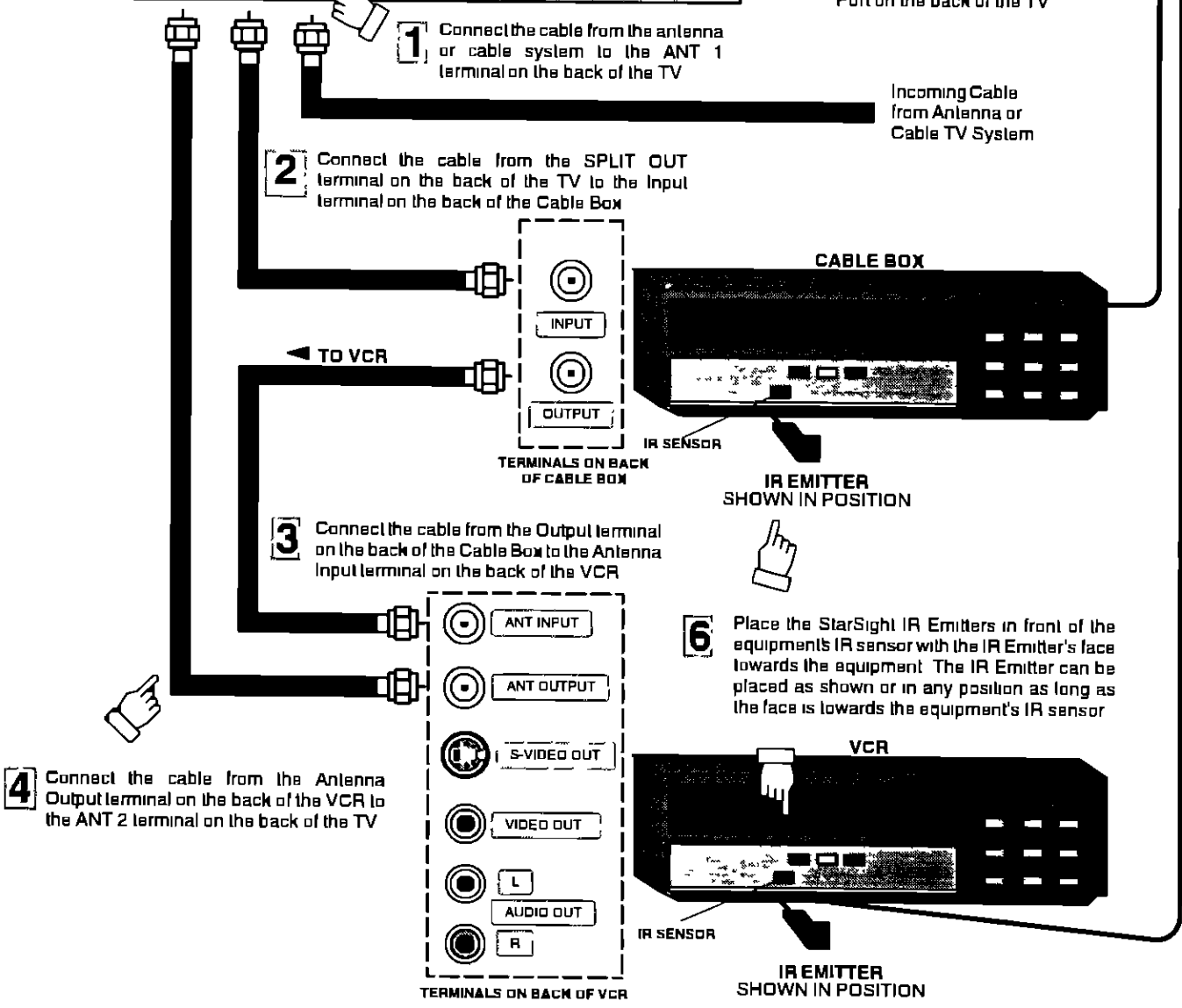
# StarSight Antenna Connection (Cable Box and VCR)

Use this configuration when connecting the TV to the Cable TV system using a Cable Box and a VCR. Be sure to select ANT 2 and CABLE Mode (see the *Input Select* and *Set Up Features* sections in this Manual for details)

## TERMINALS ON BACK OF RECEIVER



**Helpful Hints:**  
The StarSight IR Blaster should be placed no less than 2 to 3 inches in front of the equipment's IR sensor for optimum performance



**1** Connect the cable from the antenna or cable system to the ANT 1 terminal on the back of the TV

**2** Connect the cable from the SPLIT OUT terminal on the back of the TV to the Input terminal on the back of the Cable Box

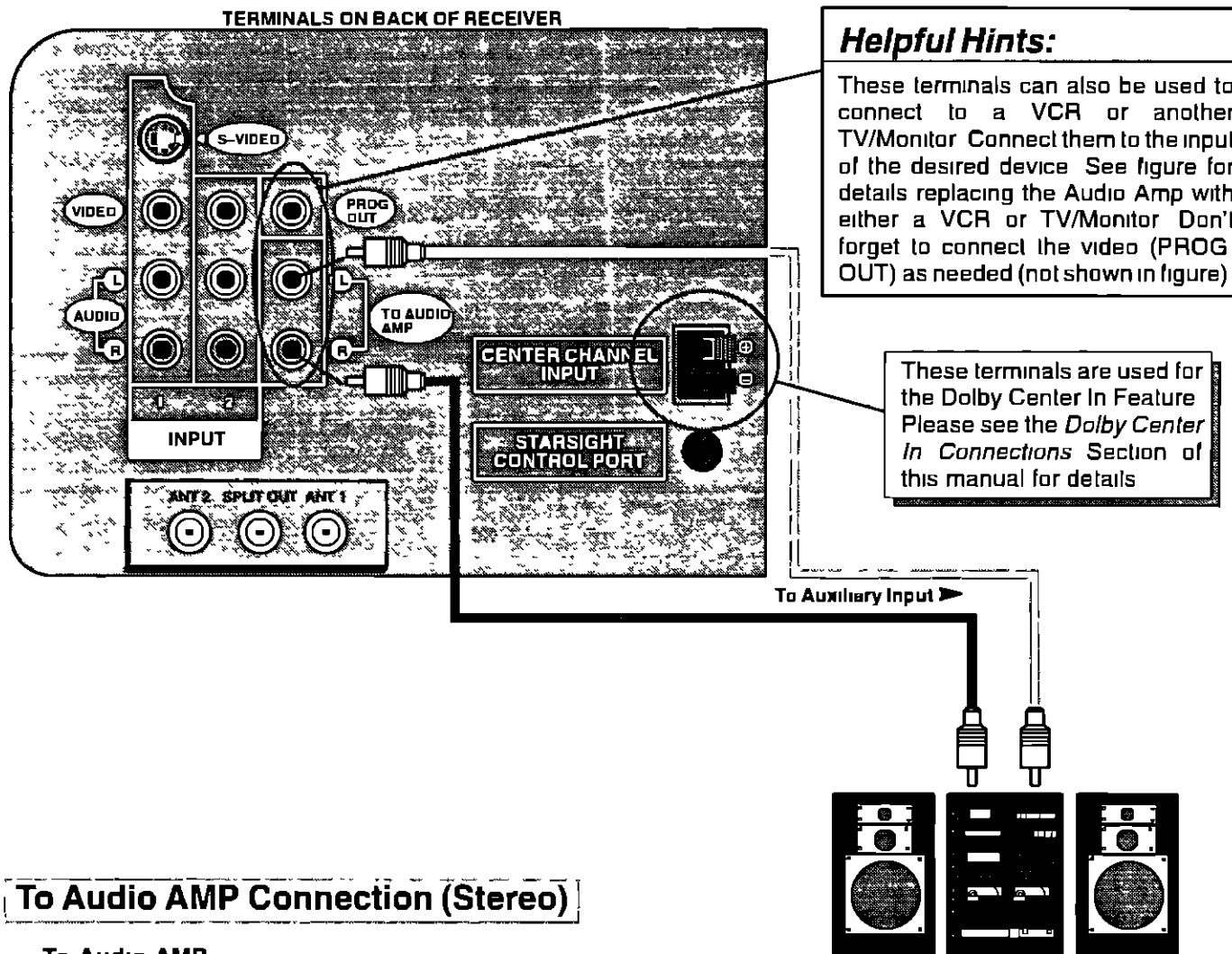
**3** Connect the cable from the Output terminal on the back of the Cable Box to the Antenna Input terminal on the back of the VCR

**4** Connect the cable from the Antenna Output terminal on the back of the VCR to the ANT 2 terminal on the back of the TV

**5** Connect the StarSight IR Emitter cable to the StarSight Control Port on the back of the TV

**6** Place the StarSight IR Emitters in front of the equipment's IR sensor with the IR Emitter's face towards the equipment. The IR Emitter can be placed as shown or in any position as long as the face is towards the equipment's IR sensor

# Optional Equipment Connection and Operation



## To Audio AMP Connection (Stereo)

### • To Audio AMP

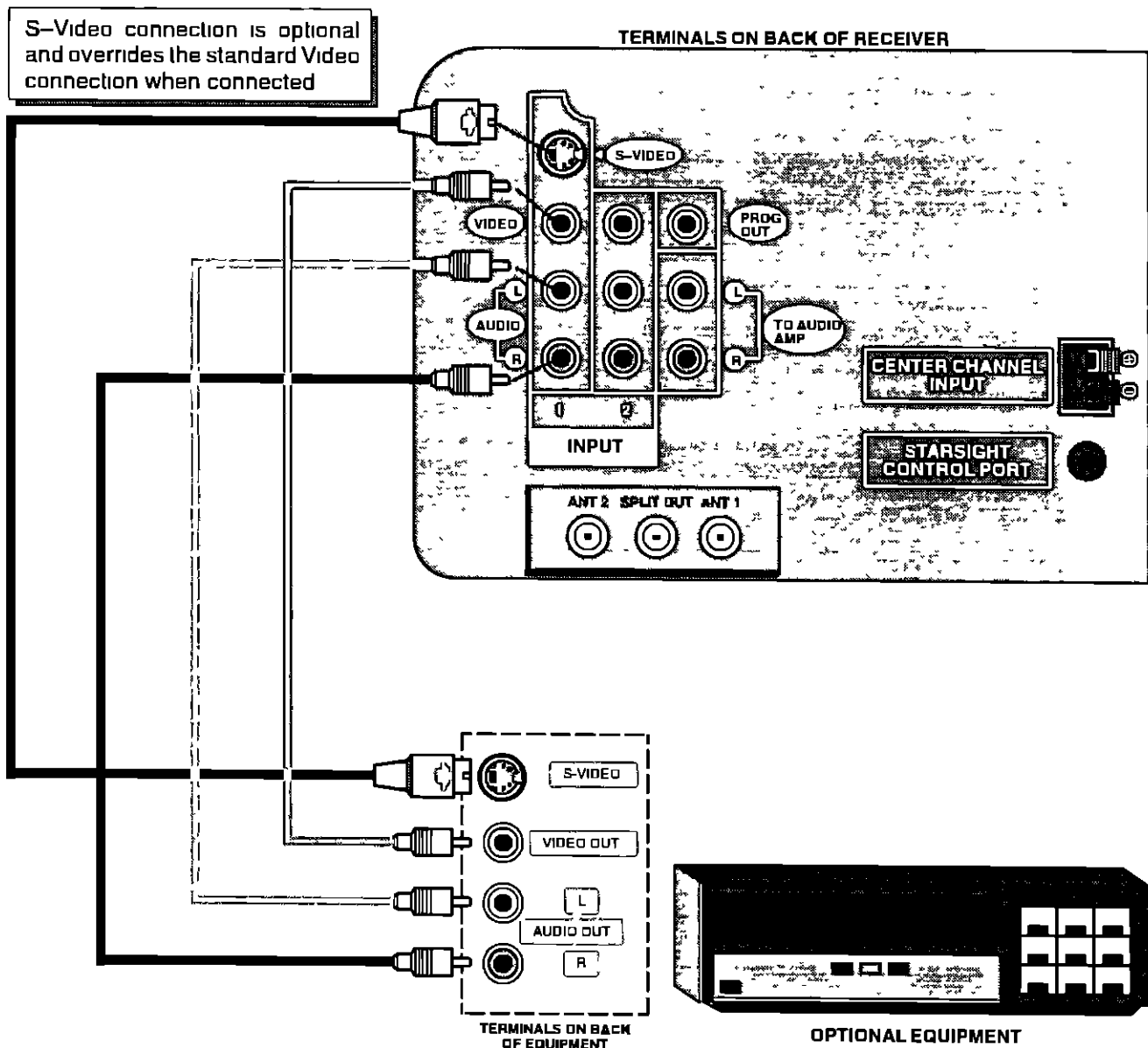
Connect to an external audio amp auxiliary input for monitoring sound through a stereo system.

**Note:** "TO AUDIO AMP" terminals cannot be used directly with external speakers.

**Adjustment** – When an audio amp is connected to "TO AUDIO AMP" terminals

- 1 Select SPEAKER "ON" Mode (Refer to the Audio Menu Speaker section)
- 2 Set volume of audio amp to near minimum
- 3 Adjust volume of TV to desired listening level
- 4 Adjust volume of audio amp to match the volume of the TV
- 5 Select SPEAKER "OFF&VAO" (Variable Audio Output) Mode (Refer to the Audio Menu Speaker section)
- 6 Audio bass, treble, balance, volume, and mute can now be controlled by the TV Remote Control. When "OFF&FAO" (Fix Audio Output) mode is selected in the Audio Menu, the external amplifier speakers are controlled by the Audio Amplifier.

# Optional Equipment Connection and Operation (cont.)



## Audio/Video Connection

### Operation

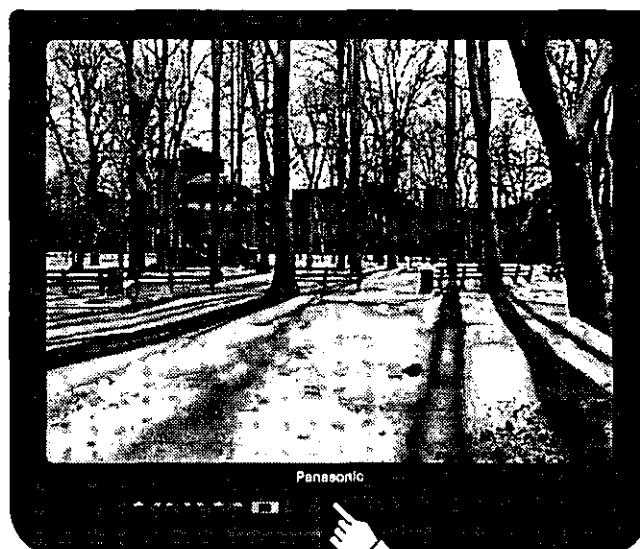
- 1 Connect optional equipment as shown to INPUT 1, 2, or 3 (input 3 is located on front of Receiver)
- 2 Select the desired Video mode by pressing the TV/VIDEO button (or refer to the Input Select Menu)

**Note**

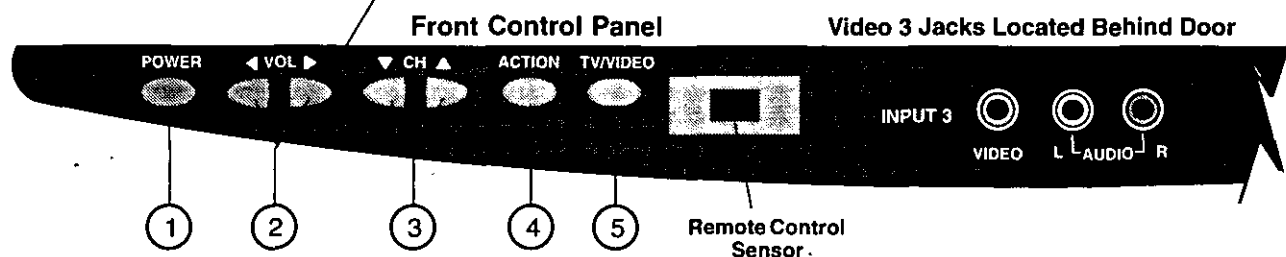
- You must select the VIDEO Mode that corresponds with the terminal that the equipment is connected to— VIDEO 1 for INPUT 1, VIDEO 2 for INPUT 2, or VIDEO 3 for INPUT 3
- S-Video is only available with VIDEO 1
- Connection of optional S-Video automatically disconnects the normal INPUT 1 Video terminal.

- 3 Operate optional equipment (VCR-VDP) as instructed in the manual that came with that equipment

## Location of Controls (Receiver)



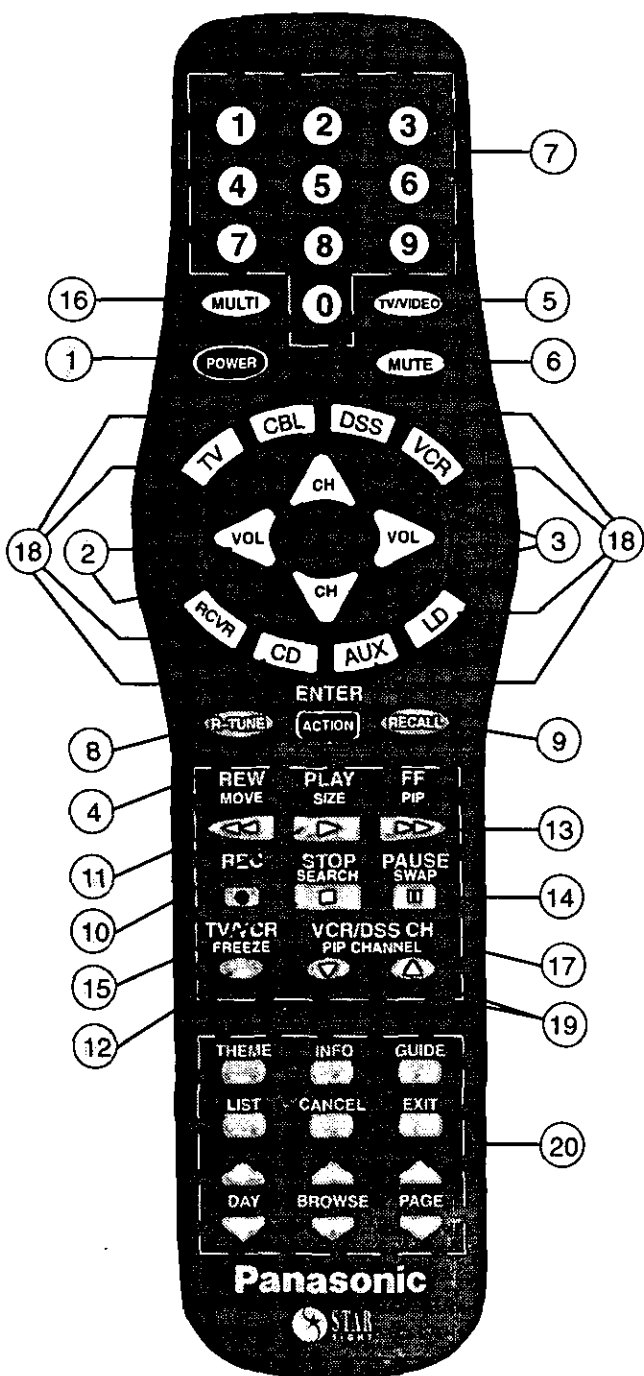
Press here to  
open door




### Quick Reference Control Operation

- ① **Power Button** – Press to turn ON or OFF.
- ② **Volume Buttons** – Press to adjust Sound Level. Press to adjust Audio Menus, Video Menus, and to select operating features when menus are displayed.
- ③ **Channel Buttons** – Press to select programmed channels. Press to highlight desired features when menus are displayed.
- ④ **Action Button** – Press to display Main Menu and to access or to exit On-Screen feature and Adjustment Menus.
- ⑤ **TV/Video Button** – Press to select TV or one of three Video Inputs, for the Main Picture or the PIP frame (when PIP frame is displayed).

# Location of Controls for the Illuminated Home Theater Remote Unit



## Basic Remote Control Functions for Television Operation

The following is a basic overview of the remote control unit for television operation. Ensure the TV mode is selected by initially pressing .

- ① **Power Button** – Press to turn the TV ON or OFF.
- ② **Volume Buttons** – Press to adjust TV sound level. Use with Channel buttons to navigate in menus.
- ③ **Channel Buttons** – Press to select channels. Use with Volume buttons to navigate in menus.
- ④ **Action Button** – Press to display Main Menu and access or exit On-Screen feature and Adjustment Menus.
- ⑤ **TV/Video Button** – Press to select TV or one of three (3) Video Inputs, for the Main Picture or the PIP frame when the PIP frame is displayed.
- ⑥ **Mute Button** – Press to mute sound. A second press returns sound.
- ⑦ **Numeric Keypad (0 through 9 Buttons)** – Press desired channel number to access any channel.
- ⑧ **R-Tune (Rapid Tune) Button** – Press to switch to the previous channel.
- ⑨ **Recall Button** – Press to display Time, status of Sleep Timer, Channel, Video Mode, Channel Caption (Station Identifier), and Audio Mode.
- ⑩ **Size Button** – Press to select size of PIP frame when the PIP frame is displayed.
- ⑪ **Move Button** – Press to position PIP frame to any corner of the Main Picture when PIP frame is displayed.
- ⑫ **Freeze Button** – Press to stop action of the Main Picture or PIP frame when the PIP frame is displayed.
- ⑬ **PIP (Picture In Picture) Button** – Press to display the PIP frame; press again to remove PIP frame.
- ⑭ **Swap Button** – Press to interchange PIP frame with Main Picture when the PIP frame is displayed.
- ⑮ **Search Button** – This button is used to select PIP Search to automatically scan channels within the PIP Frame.
- ⑯ **Multi Button** – Programmable to operate up to six (6) Remote Function buttons simultaneously.
- ⑰ **VCR Function Buttons** – Programmable to operate many brands of VCR's.
- ⑱ **Mode Selection Buttons** – Selects the operation mode for the remote control.
- ⑲ **VCR/DSS (PIP) Channel Buttons** – These buttons are used to select VCR or DSS channels UP or Down, or to move the channels within the PIP frame UP or DOWN.
- ⑳ **StarSight Buttons** – These buttons are used to operate the StarSight On-Screen TV Program Guide. A subscription is required to activate these functions.

**Note:** In order to maximize the life of the batteries, the lights can be turned OFF and ON by pressing R-TUNE and RECALL at the same time.

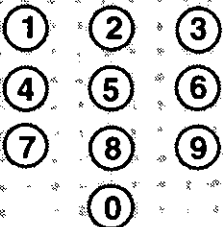













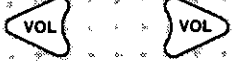

### Helpful Hints:

If the selected component does not respond to the remote control, ensure that the proper mode is selected. **First**, press the **Mode Selection Button** that corresponds to that component. For example, after first pressing the TV Mode Button, the remote will remain in the TV mode for any following commands. If another mode button is pressed while operating the television, the TV mode button must be pressed again to reset the TV mode condition.

**Note:** For more information on the Remote Control, please refer to the Remote Control Quick Reference Functional Key Chart.

# Remote Control












## Quick Reference Functional Key Chart

| KEY   | MODE   | FUNCTION  |
|---|--|---|
|    | TV<br>VCR<br>CABLE, DSS                                      | Selects Channel<br>Selects Channel<br>Selects Channel   |
|   | RECEIVER/AMPLIFIER   | ④ Selects Tuner<br>⑤ Selects CD Player<br>⑥ Selects Tape Cassette Player<br>⑦ VCR 1<br>⑧ VCR 2<br>⑨ VCR 3   |
|   | CD PLAYER  | Selects Track Number  |
|   | LD PLAYER  | Selects Track Number  |
|   | ALL COMPONENTS   | Programmable Button That Can Operate Up To Six Remote Functions At Once   |
|    | ALL COMPONENTS   | Programmable Button That Can Operate Up To Six Remote Functions At Once   |
|    | TV   | Selects the TV Input Mode   |
|    | ALL COMPONENTS   | Turns On and Off Selected Components  |
|    | TV, DSS, VCR, LDP<br>CABLE<br>RECEIVER/AMPLIFIER             | Mutes TV Audio<br>Mutes Audio<br>Mutes Audio  |
|    | TV   | TV Mode Selection for Remote Control  |
|    | CABLE  | Cable Mode Selection for Remote Control   |
|    | DSS (DIGITAL SATELLITE SYSTEM)                               | DSS Mode Selection for Remote Control   |
|   | VCR  | VCR Mode Selection for Remote Control   |
|  | RECEIVER/AMPLIFIER   | Receiver/Amplifier Mode Selection for Remote Control  |
|  | COMPACT DISC   | CD Mode Selection for Remote Control  |
|  | CASSETTE PLAYER, DVD   | AUX Mode Selection for Remote Control<br>Enables User to Operate a Tape Cassette Player, or Digital Video Disc  |
|  | LASER DISC PLAYER  | LD Mode Selection for Remote Control  |
|  | TV<br>CABLE<br>DSS<br>LDP<br>CD<br>RECEIVER/AMPLIFIER<br>DVD | Channel Up/Down, Menu Navigation<br>Channel Up/Down<br>DSS Guides and Menu Navigation<br>Skip<br>FF, REW<br>Preset or Tuning Frequency<br>Skip FWD / Skip REW |
|  | TV<br>CABLE<br>DSS<br>RECEIVER/AMPLIFIER<br>VCR<br>LDP       | Volume Up/Down, Menu Navigation<br>Volume Up/Down<br>DSS Guides and Menu Navigation<br>Volume Up/Down<br>TV Volume Up/Down<br>TV Volume Up/Down               |
|  | StarSight  | StarSight Q <sub>n</sub> -Screen TV Program Guide Navigation<br>Please Refer to the "Using StarSight Guide" for Operation                                     |



# Remote Control

## Quick Reference Functional Key Chart

| KEY   | MODE   | FUNCTION   |
|---|--|--|
|    | LDP<br>TV<br>CABLE<br>VCR<br>DSS<br>RECEIVER/AMPLIFIER<br>CD<br>TAPE CASSETTE PLAYER | Side A/B<br>Selects Previously Tuned Channel<br>Selects Previously Tuned Channel<br>Selects Previously Tuned Channel<br>Selects Previously Tuned Channel<br>Switches between AM and FM<br>Selects Next Disc<br>Selects Tape Cassette Player A or B |
|    | TV<br>DSS  | Activates TV Menus<br>Acts as Menu Button for DSS  |
|    | TV<br>DSS<br>VCR<br>LDP  | Displays Channel, Time, and Audio Mode<br>Displays Current DSS Settings<br>Displays Current VCR Settings<br>Displays Current LDP Settings  |
|    | TV<br>DSS<br>VCR<br>LDP<br>TAPE<br>CD<br>DVD   | PIP Move<br>DSS Guide<br>Rewind<br>Rewind<br>Rewind<br>Selects Previous Track<br>Rewind  |
|    | TV<br>DSS<br>VCR<br>LDP<br>TAPE<br>CD<br>DVD   | PIP Size<br>Enter/Select<br>Play<br>Play<br>Play (in Normal Direction)<br>Play   |
|  | TV<br>DSS<br>VCR<br>LDP<br>TAPE<br>CD<br>DVD   | PIP On/Off<br>Exit/Clear<br>Fast Forward<br>Fast Forward<br>Fast Forward<br>Selects Next Track<br>Fast Forward   |
|  | DSS<br>VCR<br>TAPE<br>CABLE  | One Touch Record in DSS Mode<br>Record<br>Record<br>VCR Record   |
|  | TV<br>DVD<br>VCR<br>LDP<br>TAPE<br>CD<br>CABLE                                       | PIP Search<br>Stop<br>Stop<br>Stop<br>Stop<br>Stop<br>VCR Stop   |
|  | DVD<br>TV<br>VCR<br>LDP<br>TAPE<br>CD<br>CABLE                                       | Pause<br>PIP Swap<br>Pause<br>Pause<br>Pause<br>Pause<br>VCR Pause   |
|  | TV<br>VCR<br>DSS<br>CABLE  | PIP Freeze<br>Selects TV/VCR Mode<br>Selects TV/DSS Mode<br>Selects TV/VCR Mode  |
|  | TV<br>VCR<br>DSS<br>CABLE  | PIP Channel Up/Down (2 Tuner PIP Models Only)<br>Channel Up/Down<br>Channel Up/Down<br>VCR Up/Down   |

# Control Operation

## Helpful Hints:

- Press the TV Mode Selection button to operate TV Remote functions, if necessary

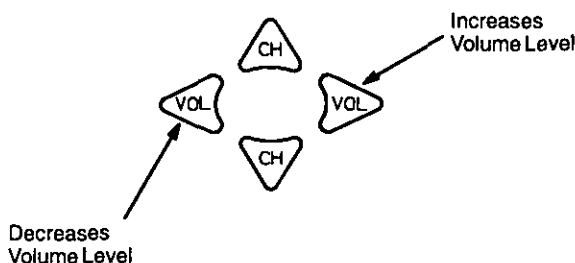


**Power Button** – Press the POWER button after selecting a mode to turn ON Press again to turn OFF



**Volume Button** – Press the VOLUME (VOL) LEFT or RIGHT button for desired listening level (when On-Screen menus are not displayed)

Located On Remote Control



**Mute Button** – Press the MUTE button to quickly reduce sound level "MUTE" will appear on screen momentarily Press again to restore sound



## Helpful Hints:

- Helpful information will display On Screen momentarily when Receiver is first turned on and when the channel is changed

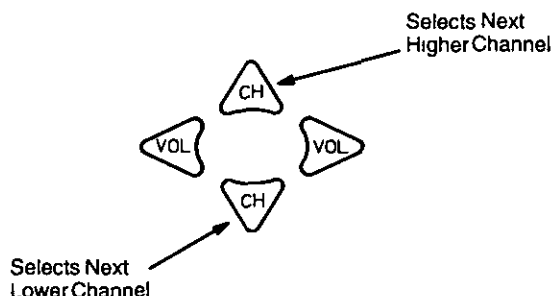
**Note:** If "SPEAKER OFF" is displayed On Screen after pressing the VOLUME button, refer to Audio Menu to turn Speakers "ON"

## Channel Buttons (UP/DOWN)

Press the CHANNEL (CH) UP/DOWN button to sequentially scan through programmed channels (when On-Screen menus are not displayed)

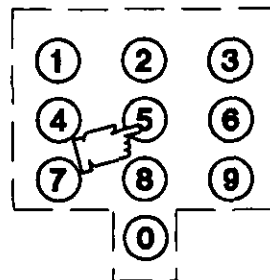
**Note:** Press the TV Mode button to operate TV Remote functions, if necessary.

Located On Remote Control



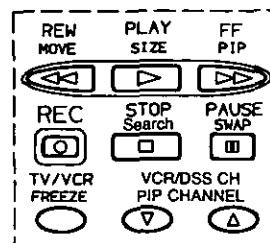
## Numeric Keypad (0 through 9 Buttons)

These buttons let you directly access any channel (Example press 5 for channel 5, press 1 then 3 for channel 13) For channels over 99, press three number buttons



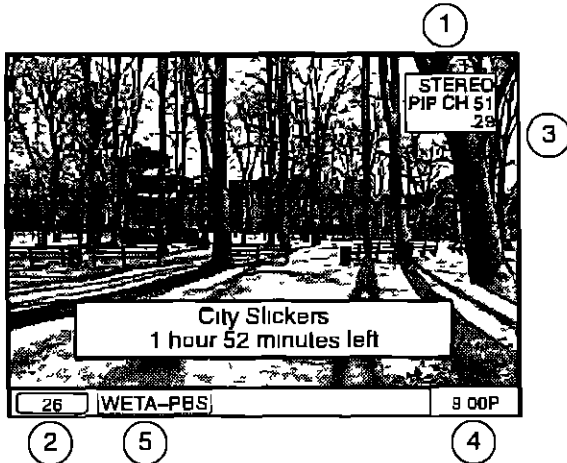
**VCR Function Buttons** – The VCR function buttons have been designed to operate numerous brands of VCRs The infrared code must be obtained prior to use (Please refer to Programming the Universal Remote for programming instructions )

**Note:** Press the VCR Mode Selection button to operate VCR Remote functions



**Recall Button** – Press the RECALL button to review

- ① Audio Mode status
- ② CH number or Video Input selected
- ③ Sleep Timer status
- ④ Clock time
- ⑤ Channel Caption (Station Identifier)



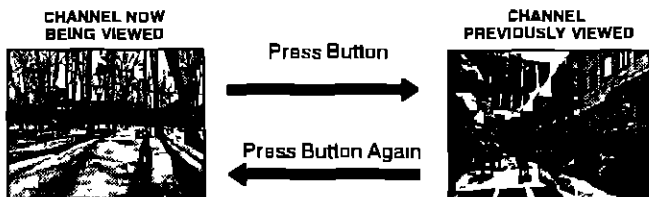
StarSight Activated



StarSight Not Activated

**R-Tune Button** – Pressing the R-TUNE (RAPID TUNE) button will switch between the last two channels selected on the numeric keypad

**NOTE:** When rapidly scanning channels with the CHANNEL UP/DOWN button, pressing the R-TUNE button will switch between the last channel scanned, and initial channel at the start of scanning



## Multi Button

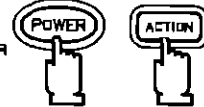
The MULTI button can be programmed to operate up to 6 Remote function buttons at the same time

**For Example:** TV Power/On, VCR Power/On, and Cable box Power/On (selected brands) can be operated at the same time with one press of the MULTI button

### Procedure

- 1 Program the Remote for the selected device Infrared access code Confirm that the Remote Control is compatible with the device
- 2 Face the Remote Control transmitter away from all equipment remote sensors
- 3 Press and hold the Remote POWER button, then press and hold the ACTION button down at the same time for three seconds (All previous commands are erased)

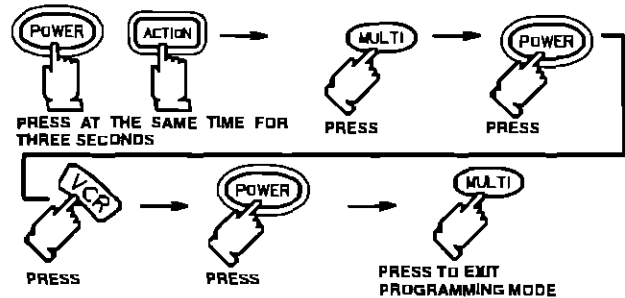
PRESS AT THE SAME TIME FOR THREE SECONDS



- 4 After three seconds, all the illuminated buttons will begin to flash Release the POWER and ACTION buttons
- 5 Press the MULTI button (Waiting more than 30 seconds without pressing another button will exit the programming mode)
- 6 Press a maximum of six (6) function buttons on the Remote Control

Each button you press is equal to one function If six (6) Remote button functions are entered, all will register in the MULTI button memory in the sequence entered When finished, press the MULTI button to exit the programming mode

The following is an example flow chart of Remote functions that can be programmed into the MULTI button (The VCR Mode button should be programmed before starting procedure see pg. 42).



You can now turn the TV and VCR ON/OFF at the same time with one press of the MULTI button

**To delete entered functions** – Press and hold the Remote POWER button, then press and hold the ACTION button down at the same time for three seconds You can now enter from one to six different Remote functions

### Note:

You can also program the MULTI button to perform most individual Remote Control button functions Buttons which continuously perform a function as long as pressed (Volume Up/Down, Channel Up/Down, etc ) cannot be programmed, only those buttons which perform a function when initially pressed (Power On/Off, Mute, Direct Channel Entry, etc ) can be programmed

### Helpful Hints:

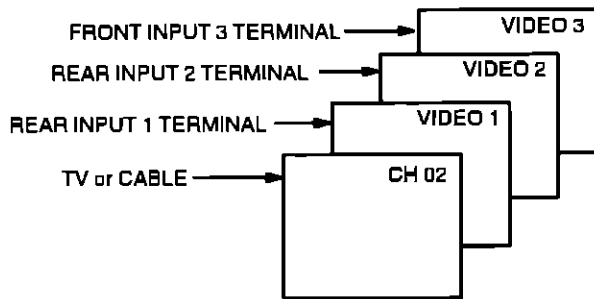
- Press the TV Mode Selection button to operate TV Remote functions, if necessary



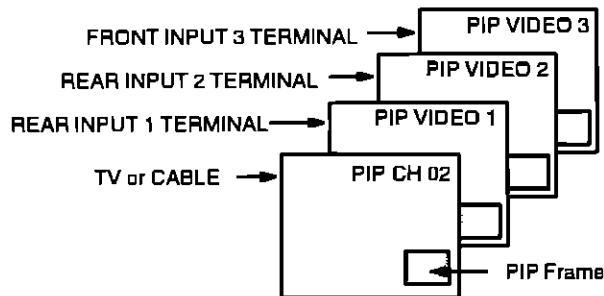
**TV/Video Button** – Press the TV/VIDEO button to select desired input for Main Picture or PIP frame (when the PIP Frame is displayed)



Signal coming from:



Signal coming from:



**PIP (Picture in Picture) Button** – This feature allows the viewer to monitor one channel program while watching another. The monitored source (PIP) can be a different channel or a different video source (such as a VCR) when connected to the input jacks

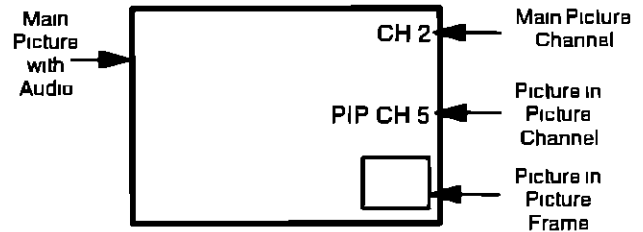
- S-Video connection will also operate the PIP feature (refer to OPTIONAL S-VIDEO VHS CONNECTION section)
- When the Main Picture is in Video mode with no signal, the PIP will not operate properly

### PIP Operation

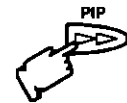
- Press the TV Mode Selection button to operate TV Remote functions, if necessary



- Press the PIP button (television must be ON). The PIP frame will appear at the position it was last displayed. The Main Picture Video Source and PIP Video Source will display on screen momentarily. Audio will be that of Main Picture.

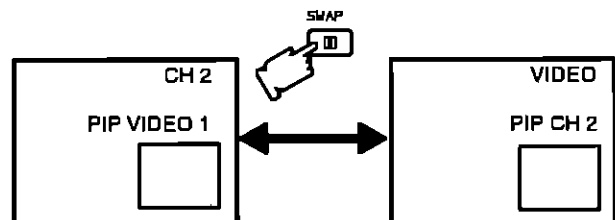


- Press the PIP button again to cancel PICTURE IN PICTURE feature (if desired)



**Note:** For PIP Video source connection, refer to the Standard Antenna and External Video Connections section

**Swap Button** – Press the SWAP button (when the PIP frame is displayed) to interchange what is being viewed on the Main Picture with that of the PIP frame



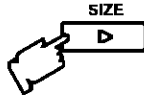
\* Audio will be that of the Main Picture

## Helpful Hints:

- Press the TV Mode Selection button to operate TV Remote functions, if necessary



**Size Button** – Press the SIZE button (when the PIP frame is displayed) to choose either the large or small PIP frame



Large PIP Frame



Small PIP Frame

**Freeze Button** – Press the FREEZE button to stop action in the PIP frame



Main Picture

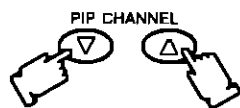
Freeze Frame

### Note:

- Pressing the FREEZE button when the PIP frame is not displayed will stop action in the Main Picture and display it within a PIP frame
- Pressing the FREEZE button when PIP frame is displayed will stop action in the PIP frame. Press the FREEZE button again to continue action
- Press the PIP button to delete PIP frame

## PIP Channel Buttons

Press the PIP CHANNEL UP/DOWN button while the PIP frame is displayed to sequentially scan through Channels



Scan Channel Down  
(next lower)

Scan Channel Up  
(next higher)

**Search Button** – The SEARCH button allows you to scan channels in “Channel Scan memory” one at a time. This feature will work with or without an external video signal as the Main Picture



Press Search to Scan

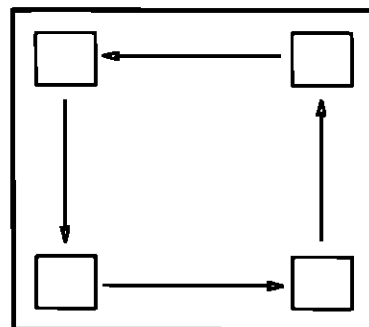
### Search Operation

- Press the SEARCH button. A PIP frame will appear on the Main Picture. The PIP frame will continuously scan channels in sequence as programmed into memory.
- Press the PIP button to stop Search feature on desired picture for PIP frame. Press the SWAP button to switch between the Main Picture and the PIP frame. Press the SEARCH button again, the Search frame will disappear.

**Move Button** – This feature allows the viewer to move the PIP frame to any corner of the Main Picture. Activate the PIP frame. Press the MOVE button to move the PIP frame to the desired location.



**Note:** Each time MOVE button is pressed (when the PIP frame is displayed), the PIP frame will move counterclockwise as illustrated.



## Main Menu (Trilingual Animated Icons)



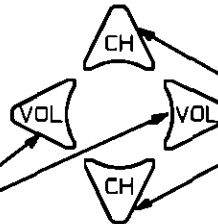
**NOTE** Only the selected icon will be animated

Located On Remote Control

Displays and Exits Menus



Selects or Adjusts Features when Menu is Displayed



Highlight Desired Feature when Menu is Displayed

- 1 Press the ACTION button to display the Main Menu with Icons
- 2 Press the CH UP/DOWN and the VOL LEFT/RIGHT buttons to select the desired Icon when the Main Menu is displayed (selected Icon will be indicated in Red)
- 3 Press the ACTION button to select and display the desired menu
- 4 To exit the Main Menu first select the EXIT Icon, then press the ACTION button

## Language Menu

The LANGUAGE MENU is factory set to ENGLISH. Follow these instructions to change the Language Menu to SPANISH or FRENCH and back to ENGLISH

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Language ENGLISH/ESPAÑOL (Spanish)/FRANÇAIS (French) icon
- 3 Press the ACTION button to display the Language select Menu

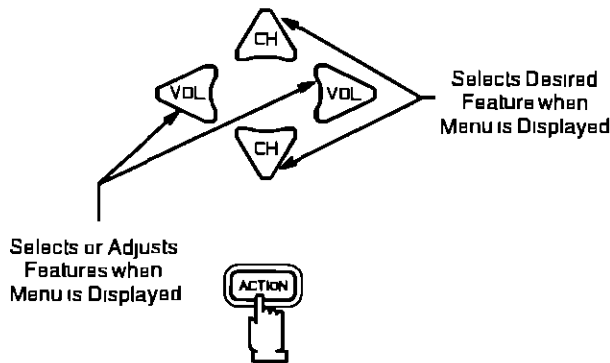


- 4 Press the CH UP/DOWN button to select ENGLISH, SPANISH, or FRENCH for the Language Menu
- 5 Press the ACTION button twice to exit the Language Select Menu

# Picture Adjustments

- Picture Norm
- Color
- Tint
- Brightness
- Picture
- Sharpness
- Color Temp (Temperature)
- Auto Color
- Video NR
- AI Picture

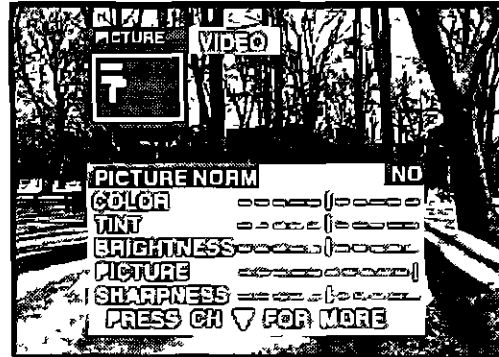
Located On Remote Control



Displays and Exits Menus

**Picture Norm** – This feature is used to reset Color, Tint, Brightness, Picture, and Sharpness adjustments back to a factory preset level

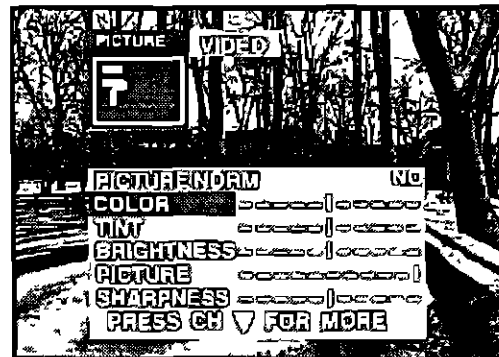
- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
- 3 Press the ACTION button to display the Picture Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight PICTURE NORM
- 5 Press the VOL LEFT/RIGHT button to select "SET" to Normalize Color, Tint, Brightness, Picture, and Sharpness
- 6 Press the ACTION button twice to exit the Picture Adjustment Menu

## Color, Tint, Brightness, Picture, and Sharpness Adjustments

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
- 3 Press the ACTION button to display the Picture Adjustment Menu



- 4 Press the CH UP/DOWN button to select the desired Picture Adjustment (Color, Tint, Brightness, Picture, or Sharpness)
- 5 Press the VOL LEFT/RIGHT button to adjust your selection (The Selected Picture Adjustment will be displayed)
- 6 Repeat steps 4 and 5 for the remaining Picture Adjustments
- 7 Press the ACTION button twice to exit the Picture Adjustment Menu

**Note:** Pressing the ACTION button again will return to Picture Icon

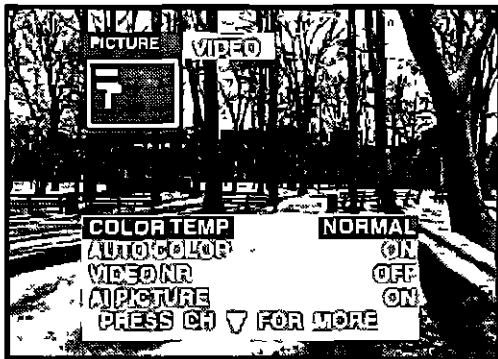
### Helpful Hints:

- COLOR – adjust for desired color intensity
- TINT – adjust for natural flesh tones
- BRIGHTNESS – adjust so dark areas of picture slightly become black for a crisp detail
- PICTURE – adjust the white areas of the picture as desired
- SHARPNESS – adjust for best clarity of outline detail

## Picture Adjustment (cont.)

**Color Temp (Temperature)** – This feature selects three (3) options for picture temperature

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
- 3 Press the ACTION button to display the Picture Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight COLOR TEMP
- 5 Press the VOL LEFT/RIGHT button to select NORMAL, WARM, or COOL
  - NORMAL (no tint)
  - WARM (reddish tint)
  - COOL (bluish tint)
- 6 Press the ACTION button twice to exit the Picture Adjustment Menu

**Auto Color** – This feature automatically optimizes color adjustment to compensate for signal variations

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
- 3 Press the ACTION button to display the Picture Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight AUTO COLOR
- 5 Press the VOL LEFT/RIGHT button to turn Auto Color feature ON or OFF
- 6 Press the ACTION button twice to exit the Picture Adjustment Menu

**Video NR (Noise Reduction)** – This feature reduces video noise (snow in picture) due to weak signal

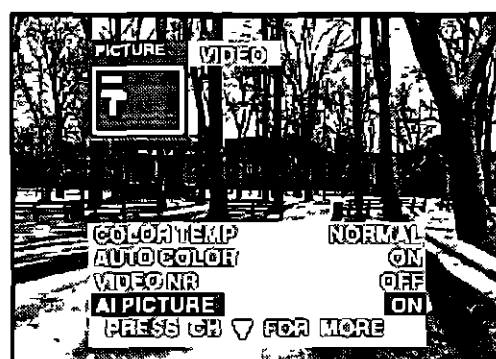
- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
- 3 Press the ACTION button to display the Picture Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight VIDEO NR (Noise Reduction)
- 5 Press the VOL LEFT/RIGHT button to turn Video NR feature ON or OFF
- 6 Press the ACTION button twice to exit the Picture Adjustment Menu

**AI Picture** – This feature provides Flesh Tone Correction, Color Edge Correction, Color Noise Reduction, and Optimum Flesh Tone Brightness. For the best possible picture quality this feature should be activated (ON)

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
- 3 Press the ACTION button to display the Picture Adjustment Menu



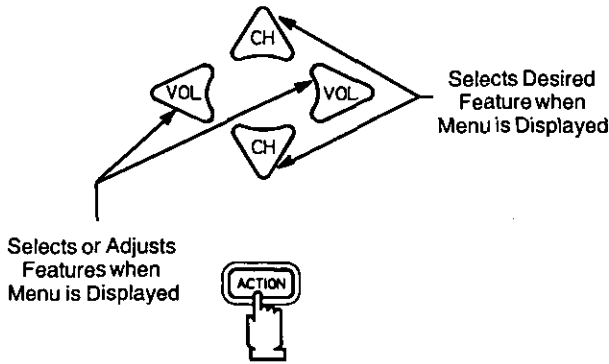
- 4 Press the CH UP/DOWN button to highlight AI PICTURE
- 5 Press the VOL LEFT/RIGHT button to select ON or OFF
- 6 Press the ACTION button twice to exit the Picture Adjustment Menu



# Audio Adjustment

- Audio Norm
- Bass
- Treble
- Balance
- Audio Mode
- [TV] Speaker
- Dolby Center In
- Surround
- AI Sound

Located On Remote Control



Displays and Exits Menus

**Audio Norm** – This feature is used to reset BASS, TREBLE and BALANCE back to a factory preset level.

1. Press the ACTION button to display the Main Menu.
2. Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Audio Icon.
3. Press the ACTION button to display the Audio Adjustment Menu.



4. Press the CH UP or DOWN button to highlight AUDIO NORM.
5. Press the VOL LEFT or RIGHT button to select "SET" to Normalize Bass, Treble and Balance.
6. Press the ACTION button twice to exit the Audio Adjustment Menu.

**Bass, Treble and Balance** – Before setting Bass or Treble select the desired mode of AI Sound (ON or OFF). Bass and Treble Adjustments may require readjustment when changing between AI Sound ON or OFF.

1. Press the ACTION button to display the Main Menu.
2. Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Audio Icon.
3. Press the ACTION button to display the Audio Adjustment Menu.



4. Press the CH UP/DOWN button to highlight BASS, TREBLE or BALANCE.
5. Press the VOL LEFT/RIGHT button to adjust for desired audio response.
6. Repeat steps 4 and 5 for remaining Audio functions.
7. Press the ACTION button twice to exit the Audio Adjustment Menu.

**Note:** Pressing the ACTION button again will return to Audio Icon.

## Helpful Hints:

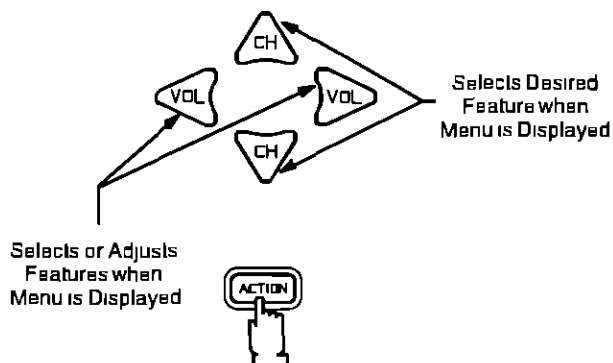
**BASS** – To increase or decrease the Bass response.  
**TREBLE** – To increase or decrease the Treble response.

**BALANCE** – To emphasize the Right and Left Speaker's volume.

While the AI (Artificial Intelligence) Sound is "ON" the Bass and Treble cannot be adjusted.

## Audio Adjustments (cont.)

Located On Remote Control



Displays and Exits Menus

### Mode – Stereo/SAP/Mono

When Audio is broadcast in Stereo or SAP an ON Screen display will appear on initial "Turn On" and "Channel Change" The available choices will be indicated in red

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Audio Icon
- 3 Press the ACTION button to display the Audio Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight MODE
- 5 Press the VOL LEFT/RIGHT button to select STEREO, SAP (Second Audio Programming) or MONO The selected mode will be highlighted
- 6 Press the ACTION button twice to exit the Audio Adjustment Menu

### Helpful Hints:

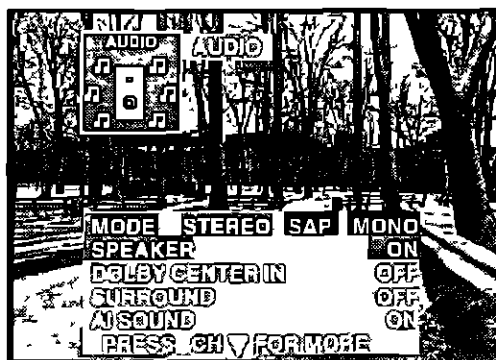
STEREO – Two channel Audio reception

SAP – Second Audio Programming (typically used for bilingual audio)

MONO – Use when stereo signal is weak

**[TV] Speaker** – This feature is used to turn the internal speakers "ON" or "OFF" It is used when the Receiver is connected to an External Audio Amplifier (Refer to "To Audio Amp" Connection section for further information )

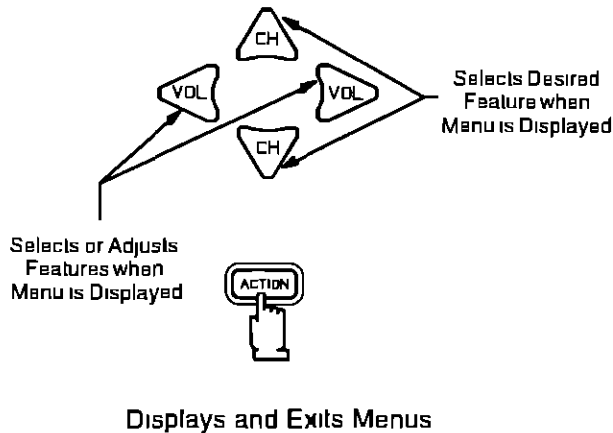
- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to select the Audio Icon
- 3 Press the ACTION button to display the Audio Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight SPEAKER
- 5 Press the VOL LEFT/RIGHT button to select ON, OFF&VAO or OFF&FAO
  - ON – TV SPEAKERS operate normally
  - OFF&VAO (Variable Audio Output) – TV SPEAKERS off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the External Audio System
  - OFF&FAO (Fixed Audio Output) – TV SPEAKERS off, sound output is constant and not adjustable from the TV Use External Audio System's volume control to adjust the sound level
- 6 Press the ACTION button twice to exit the Audio Adjustment Menu

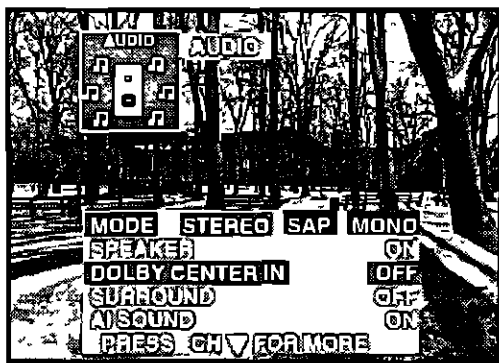
## Audio Adjustments (cont.)

Located On Remote Control



**Dolby Center In** — Use the Dolby Center In feature to use the TV's speakers as the center channel output when using a Dolby Surround Sound Amplifier. The amplifier's center channel output must be connected to the TV's center channel input terminal. See figure on next page for possible connections or refer to the equipment's manual for connection details.

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Audio Icon
- 3 Press the ACTION button to display the Audio Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight DOLBY CENTER IN
- 5 Press the VOL LEFT/RIGHT button to select DOLBY CENTER IN ON or OFF. When selected, the speaker mode will automatically change to ON & FAO. Volume control will only be available through the Dolby Amplifier.
- 6 Press the ACTION button twice to exit the Audio Adjustment Menu

**Surround** — Use the Surround Feature to enhance audio response when listening to Stereo broadcasts.

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Audio Icon
- 3 Press the ACTION button to display the Audio Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight SURROUND
- 5 Press the VOL LEFT/RIGHT button to select SURROUND ON or OFF
- 6 Press the ACTION button twice to exit the Audio Adjustment Menu

**AI Sound** — This feature is used to regulate the volume between program and commercial audio to maintain a constant sound output level.

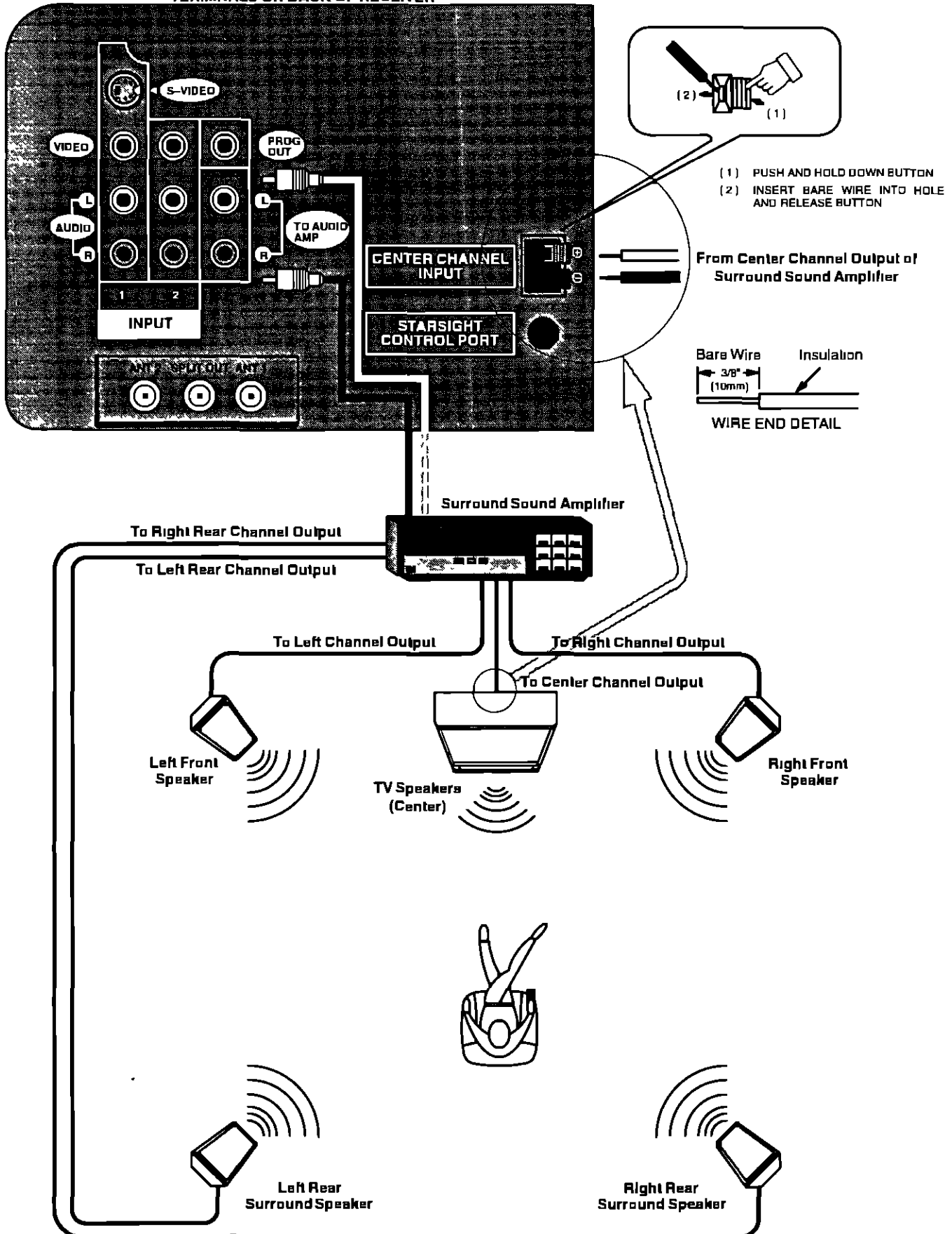
- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Audio Icon
- 3 Press the ACTION button to display the the Audio Adjustment Menu



- 4 Press the CH UP/DOWN button to highlight AI SOUND
- 5 Press the VOL LEFT/RIGHT button to select AI SOUND ON or OFF
- 6 Press the ACTION button twice to exit the Audio Adjustment Menu

# Dolby Center Channel In Connection

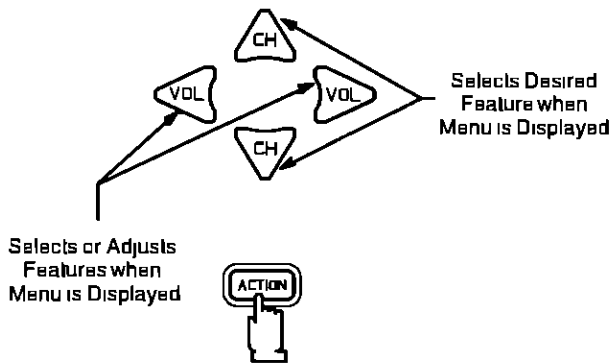
TERMINALS ON BACK OF RECEIVER



# Input Select

- Antenna Input Selection
- Main Picture Input Selection
- PIP (Picture in Picture) Input Selection (When PIP the frame is displayed)

Located On Remote Control



Displays and Exits Menus

## Antenna Input Selection

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Input Select Icon
- 3 Press the ACTION button to display the Input Select Menu



- 4 Press the CH UP/DOWN button to highlight ANTENNA
- 5 Press the VOL LEFT/RIGHT button to select ANT 1 or ANT 2
- 6 Press the ACTION button twice to exit the Input Select Menu

### StarSight Notes:

- Changing the Antenna mode once StarSight is activated will result in a loss of StarSight functions. Returning to the correct Antenna mode will return StarSight functions.
- This TV will function without StarSight as outlined in this manual. The correct Antenna mode must be selected for StarSight to function.

## Main (Picture) Input Selection

This feature is used to select TV Mode Operation or one of four Video Inputs for the Main Picture (used with optional accessory Video equipment)

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Input Select Icon
- 3 Press the ACTION button to display the Input Select Menu

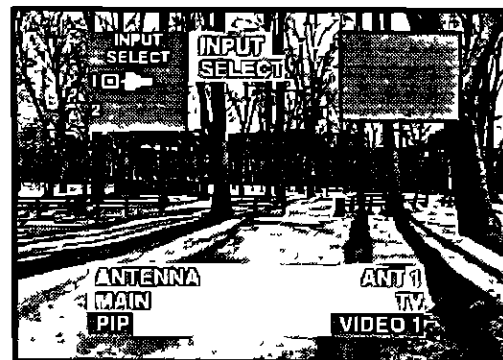


- 4 Press the CH UP/DOWN button to highlight MAIN
- 5 Press the VOL LEFT/RIGHT button to select TV, Video 1, Video 2, or Video 3 for Main Picture Input
- 6 Press the ACTION button twice to exit the Input Select Menu

## PIP Input Selection

This feature is used to select TV Mode Operation or one of four Video Inputs for the PIP (Picture in Picture) frame when the PIP frame is displayed (used with optional accessory Video equipment)

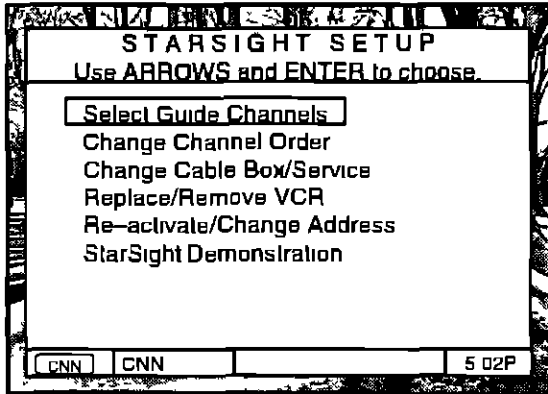
- 1 Press the PIP button to display the PIP frame
- 2 Press the ACTION button to display the Main Menu
- 3 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Input Select Icon
- 4 Press the ACTION button to display the Input Select Menu



- 5 Press the CH UP/DOWN button (when the PIP frame is displayed) to highlight PIP
- 6 Press the VOL LEFT/RIGHT button to select TV, Video 1, Video 2, or Video 3 for the PIP frame Input
- 7 Press the ACTION button twice to exit the Input Select Menu

# StarSight Program Guide

- Select Guide Channels
- Change Channel Order
- Change Cable Box/Service
- Replace/Remove VCR
- Re-Activate/Change Address
- StarSight Demonstration



**Program Guide** – This menu is used to access and change StarSight settings

- 1 Press the ACTION/ENTER button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the PRG GUIDE icon
- 3 Press the ACTION/ENTER button to display the StarSight Setup Menu
- 4 Press the CH UP/DOWN buttons to highlight the desired function
- 5 Press the ACTION/ENTER button to display the desired Setup Menu
- 6 Follow the on-screen instructions
- 7 Press EXIT to return to normal viewing

**Note:** For more information, please refer to sections 12 through 16 of the *Using StarSight* guide

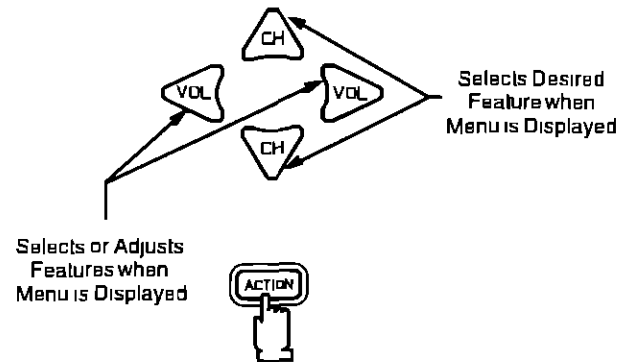
## StarSight Notes:

- Pressing EXIT or Cancel will close the current screen or pop-up and return to the currently tuned channel

# Timer Feature

- Sleep Timer
- (Dual Program) Timer

Located On Remote Control

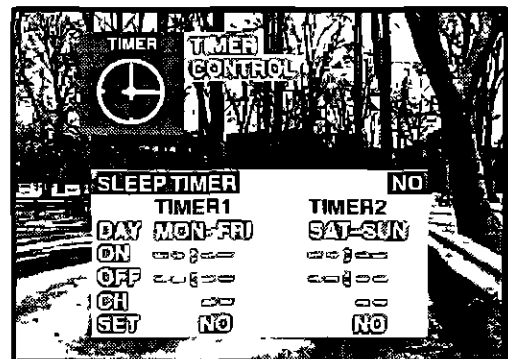


Displays and Exits Menus

**Sleep Timer** – This feature is used for automatic OFF in 30, 60, or 90 minutes as desired

**Note:** Display will flash 3, 2, and 1 to indicate the last three remaining minutes prior to turn OFF

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Timer Icon
- 3 Press the ACTION button to display the Timer Control Menu



- 4 Press the VOL RIGHT button to select NO, 30, 60, or 90 (minutes) for Sleep Timer to be activated
- 5 Press the ACTION button twice to exit the Timer Control Menu

**Note.** To deactivate Sleep Timer repeat steps 1 through 4. In step 4, select "NO" instead of minutes

## Timer Feature (cont.)

### Special Feature:

#### Automatic "OFF" after 90 minutes.

The TV has a special feature that will shut itself **OFF** after 90 minutes when turned **ON** by the program timer, unless a function key is pressed during the 90 minutes

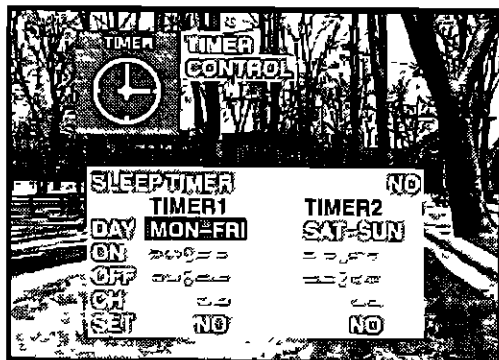
This feature is useful so that the TV will not remain **ON** unattended for an extended period of time

Programming the **OFF** timer will also cancel the automatic **OFF** feature

**(Program) Timer** – The (Dual Program) Timer feature is capable of turning the TV on to a desired channel and then turning the set **OFF** at a predetermined time

**Note:** The clock and day must be set for this feature to operate (Refer to Set Up Menu to Set Time and Day)

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Timer Icon
- 3 Press the ACTION button to display the Timer Control Menu



- 4 Press the CH UP/DOWN button to highlight the TIMER 1 or TIMER 2 setting
  - Day or days you wish the Timer to activate
  - ON (time) – hours and minutes
  - OFF (time) – hours and minutes
  - CH – channel you want tuned when the ON Timer activates
  - SET – NO (Timer feature will not activate)
    - YES (Timer feature will activate)

- 5 Highlight the Timer 1 Day/Days option
- 6 Press the VOL LEFT/RIGHT button to set the day or days you wish the Receiver to turn ON  
The options for setting day are (MON-FRI), (SAT-SUN), (DAILY), (SUN), (MON), (TUE), (WED), (THR), (FRI), (SAT), (EVR SUN), (EVR MON), (EVR TUE), (EVR WED), (EVR THR), (EVR FRI), (EVR SAT)
- 7 Press the CH DOWN button to highlight the ON (Hours) position
- 8 Press the VOL LEFT/RIGHT button to set the desired time for the Receiver to turn ON  
**Note:** Press CH DOWN to change selection from \_\_\_\_\_ hours to minutes
- 9 Press the CH DOWN button to highlight the OFF (Hours/Minutes) position
- 10 Press the VOL LEFT/RIGHT button to set the time you wish the Receiver to turn OFF  
**Note:** Press CH DOWN to change selection from \_\_\_\_\_ hours to minutes
- 11 Press the CH DOWN button to highlight the CH position
- 12 Press the VOL LEFT/RIGHT button to select a channel (from Program Channel Memory) that you want to be tuned to when the set turns ON
- 13 Press the CH DOWN button to highlight the SET position



- 14 Press the VOL RIGHT button to activate or LEFT button to deactivate Timer 1
  - YES=Feature is activated
  - NO=Feature is not activated
- 15 Press the CH DOWN button to set Timer 2 (if desired) Follow Steps 6 through 14
- 16 Press the ACTION button twice to exit the Timer Control Menu  
**Note:** Pressing the ACTION button again will return to Timer Icon

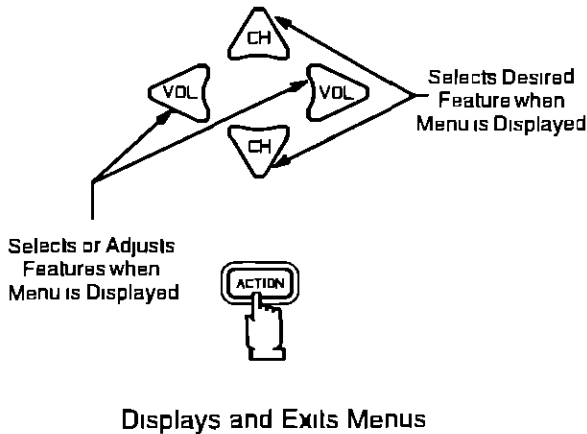
### Helpful Hints:

- The Program Timer overrides the Sleep Timer
- Program Timer can only access channels in Program Channel Memory
- "Set Time First" will appear on screen when trying to set Timer Day Option without the clock being set
- If the Program Timer "ON" functions while the set is operating the set will automatically tune to the channel designated in the Program Timer

# Lockout Features

- Game Lockout
- Channel Lockout
- All Channels plus Video Inputs Lockout

Located On Remote Control

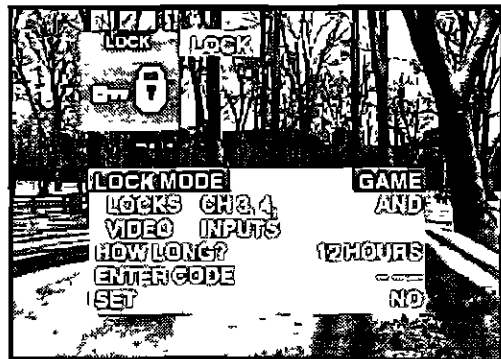


**Lockout Mode** – This feature allows you to lockout

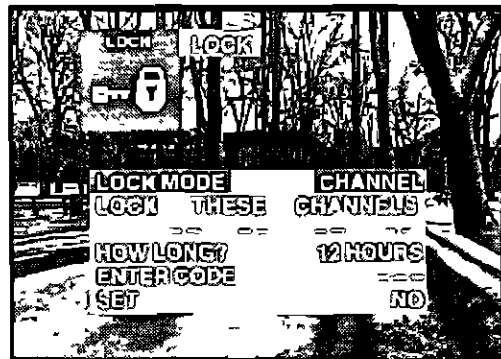
- Game – (Lockout Channel 3 and 4 plus Video Inputs )
- Channel – (Lockout up to 4 Channels )
- All – (Lockout All Channels plus Video Inputs )

**Note:** This feature will Lockout your selection for up to 48 hours. Be sure to understand this feature before attempting its use. Use a code that you will easily remember.

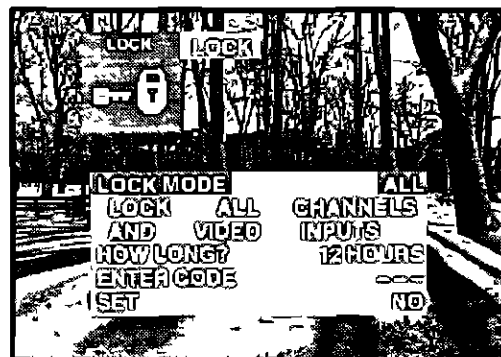
- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Lock Icon
- 3 Press the ACTION button to display the Lock Menu  
**Note:** When the Lockout Menu is displayed, the Game Lock option will be highlighted
- 4 Press the VOL LEFT/RIGHT button to select GAME, CH (CHANNEL), or ALL



Game Lockout Menu  
(Channels 3 & 4 plus Video Inputs)



Channels Lockout Menu  
(up to 4 Channels)



All Lockout Menu  
(All Channels plus Video Inputs)

## StarSight Notes:

- This feature is not fully functional when StarSight is activated with a Cable Box. Channels selected for lock will not be viewable, but will still display StarSight pop-up information when tuned.
- StarSight overrides this feature because channel 3 (or 4, whatever channel is required by the Cable Box) is needed for gathering and viewing StarSight information.

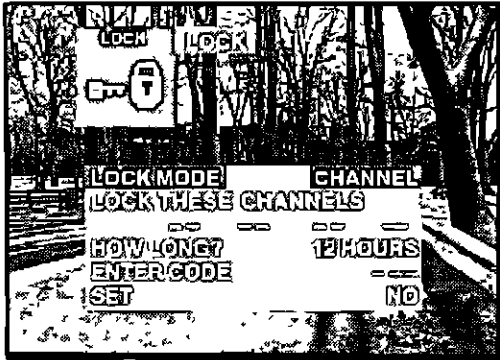
## Helpful Hints:

**Note:** If you see a red "PG" (StarSight not active) or "PG" in a blue box (StarSight active) in the upper right hand corner the channel or Video mode you have selected has been locked out.



# Lockout Features (cont.)

**Note** When the LOCK MODE CHANNEL is selected, perform procedure Steps A through D



**Step A**

Press the CH DOWN button to highlight "LOCK THESE CHANNELS"

**Step B**

Then use the Remote Control Numerical Keypad to select a channel you desire to lockout

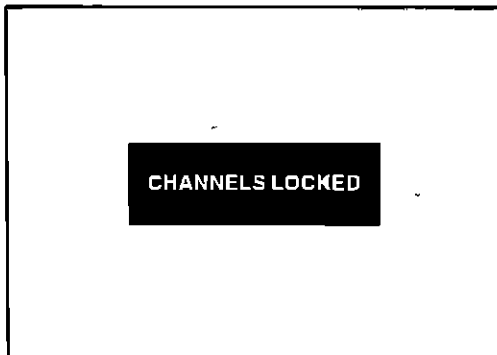
**Step C**

Press the CH DOWN button to select next Channel position

**Step D**

Then repeat Step B and C until desired Channels are locked out (up to 4 Channels)

- 5 Press the CH DOWN button to highlight "HOW MANY HOURS"
- 6 Press the VOL LEFT/RIGHT buttons to select 12, 24, or 48 (hours lockout time)
- 7 Press the CH DOWN button to highlight "ENTER CODE" then enter a 3 digit code by using the Remote Control Keyboard  
**IMPORTANT NOTE: Use a code you can easily remember.**
- 8 Press the VOL RIGHT button to select "YES" for Lock feature to be activated, "CHANNELS LOCKED" will display On Screen

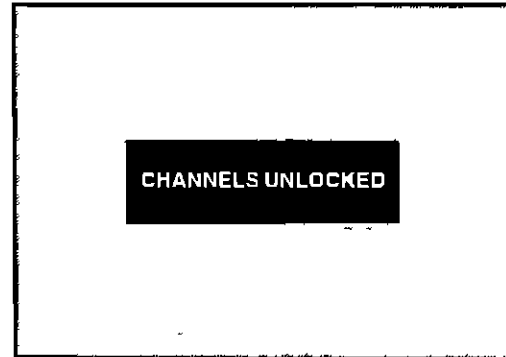


**Lock Feature Activated**

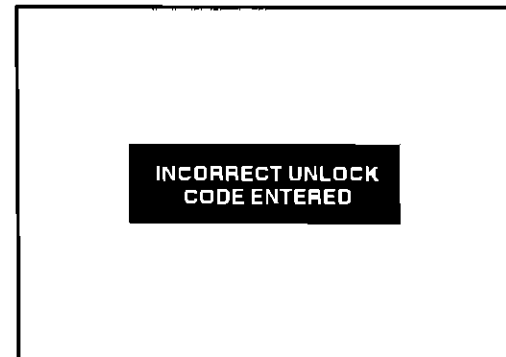
**Unlock** — Follow Steps 1 through 3 from previous page and enter the same 3 digit code as in Step 7 Channel Unlocked display will appear



**ENTER SAME 3 DIGIT CODE**



**IF 3 DIGIT CODE IS THE SAME**



**IF 3 DIGIT CODE IS NOT THE SAME**

# Favorite Channel Feature

- Channel Scan
- Favorite Channel Select

**Channel Scan** – This feature is use to select which Channels will be accessed when using CH UP/DOWN buttons, ALL or FAV (Favorite) Channels

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Favorite Channel Icon
- 3 Press the ACTION button to display the Favorite Channel Menu



- 4 Press the CH UP/DOWN to highlight CHAN SCAN
- 5 Press the VOL LEFT/RIGHT button to select ALL or FAV (Favorite)
  - ALL – The CH UP/DOWN buttons will access all channels in Channel Memory
  - FAV – The CH UP/DOWN buttons will only access channels in Favorite Channel Select Memory
- 6 Press the ACTION button twice to exit the Favorite Channel Menu

**Note:** Pressing the ACTION button again will return to Favorite Channel Icon

## StarSight Notes:

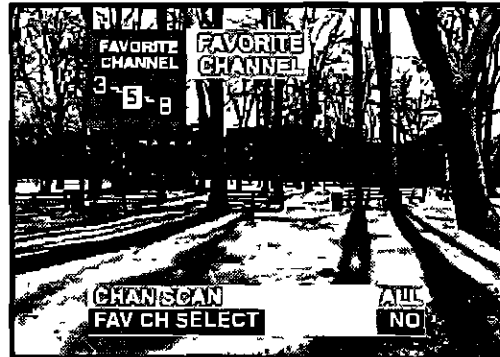
- This feature is not functional when StarSight is activated
- All functions are selectable and channels can be added or deleted, but StarSight overrides this feature and replaces it with its own customizable channel list

## Helpful Hints:

**Note:** After Auto Channel Program runs, the first 15 channels selected will automatically be added to Favorite Channel memory, if memory has room

**Favorite Channel Select** – The Favorite Channel Programming feature allows you to program up to 15 of your favorite channels. You can use the CH buttons on the Remote Control to scan channels without going through channels you don't normally view

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Favorite Channel Icon
- 3 Press the ACTION button to display the Favorite Channel Menu



- 4 Press the CH UP/DOWN button to highlight "FAV CH SELECT"
- 5 Press the VOL LEFT/RIGHT button to display the Favorite Channel Select Menu



- 6 Enter the channel number you wish to add or delete from Favorite Channel Memory (using the Remote Keyboard or CH UP/DOWN buttons)
- 7 Press the VOL RIGHT button to add or press the LEFT button to delete channel(s) from Favorite Channel Memory
- 8 Repeat Steps 6 and 7 to continue adding or deleting channels (up to 15 channels may be stored in Favorite Channel Memory)

**Note:** When your desired channels have been programmed, press the ACTION button to exit the menu

- 9 Press the CH UP/DOWN button to scan through the Favorite Channels programmed

# Channel Caption Features

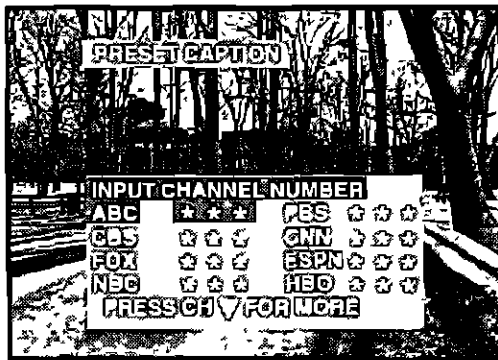
## Preset Caption

This feature allows you to select from 56 preset captions, and assign corresponding channel numbers utilized in your area. Captions are easily assigned to the channel numbers you select by following the simple steps outlined below. The channel number will then display, along with preset captions when changing channels or pressing the RECALL button.

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Channel Caption icon
- 3 Press the ACTION button to display the Channel Caption Menu

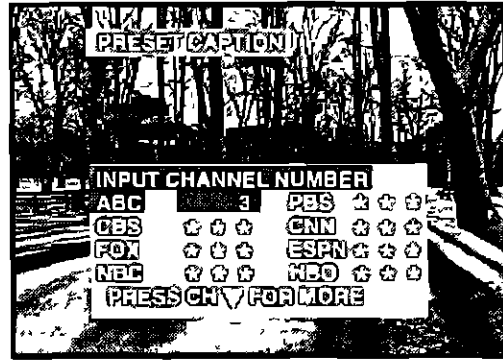


- 4 Press the CH UP/DOWN button to highlight PRESET CAPTION
- 5 Press the VOL LEFT/RIGHT button to display the Preset Caption Menu



- 6 Press the CH UP/DOWN to highlight the desired Preset Channel Caption
- 7 Use the Remote Control keyboard to assign the channel number to the Channel Caption in your area (Refer to your local TV guide)

**Note:** To delete an assigned channel number from channel caption, press the VOL LEFT button while the assigned channel number is highlighted.



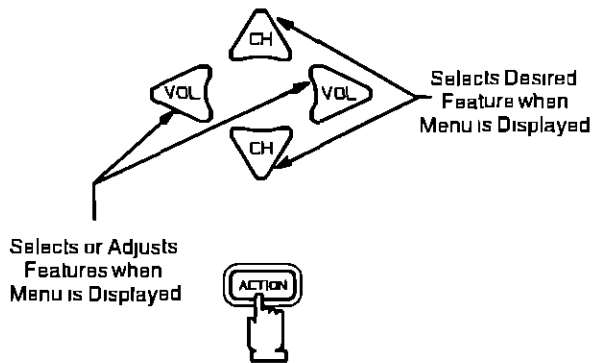
- 8 Press the CH DOWN button to select a different Preset Channel Caption, then repeat steps 6 and 7 until all desired Preset Channel Captions have an assigned channel number
- 9 Press the ACTION button three times to exit the Preset Caption menu

### StarSight Notes:

- StarSight automatically includes station identifiers and channel captions when StarSight is activated

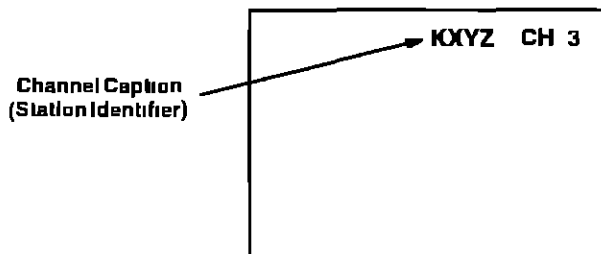
# Channel Caption Features (cont.)

Located On Remote Control



Displays and Exits Menus

**Manual Caption** — The Channel Caption (Station Identifier) allows you to input the call names of up to 30 stations into memory (using up to 4 characters) The call name will then display, along with the channel number when changing channels or pressing RECALL



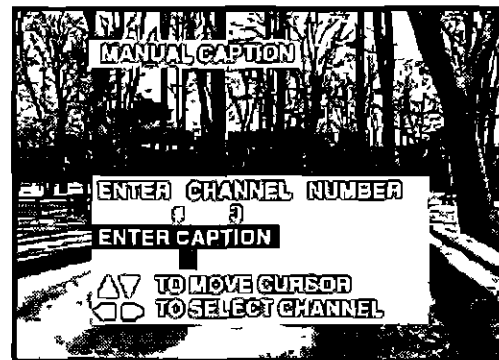
- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Channel Caption Icon
- 3 Press the ACTION button to display the Channel Caption Menu



- 4 Press the CH UP/DOWN button to highlight MANUAL CAPTION
- 5 Press the VOL LEFT/RIGHT button to display the MANUAL CAPTION menu



- 6 Use the Remote Control Keyboard or VOL LEFT/RIGHT buttons to enter channel number your wish to assign a channel caption (station identifier)
- 7 Press the CH DOWN button to highlight ENTER CAPTION



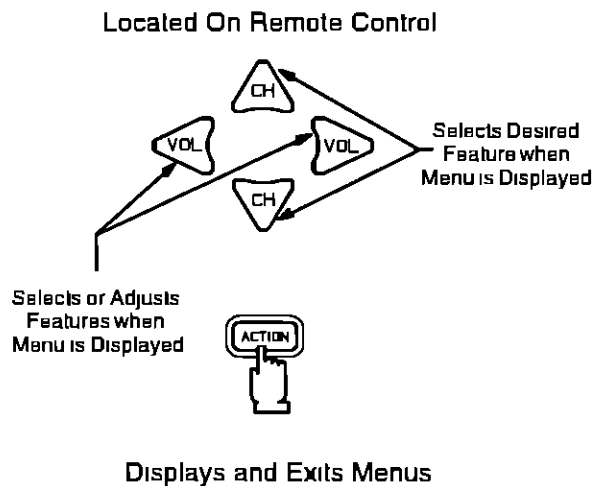
- 8 Press the VOL LEFT/RIGHT button to select first character in channel caption (station identifier)
- 9 Press the CH DOWN button to move to second character position, and repeat steps 8 and 9 until the complete caption is entered (up to 4 characters)
- 10 Press the CH UP/DOWN button repeatedly to highlight ENTER CHANNEL NUMBER Then repeat steps 6 through 10 to continue adding channel caption (station identifiers)
- 11 Press the ACTION button three times to exit the Manual Caption menu

**Note.** Press the ACTION button again to return to Channel Caption Icon

**StarSight Notes:**

- StarSight automatically includes station identifiers and channel captions when StarSight is activated

# Trilingual Menu Selection



## Language Selection (English/Spanish/French)

Follow these instructions to change the Language Menu to Spanish, French, and English

**Note:** The Language Menu is factory set to ENGLISH

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Language ENGLISH / ESPAÑOL (Spanish) / FRANÇAIS (French) Icon
- 3 Press the ACTION button to display the LANGUAGE select Menu



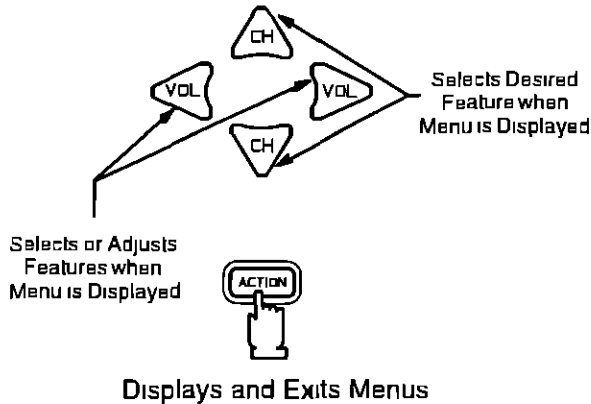
- 4 Press the CH UP/DOWN button to select ENGLISH, SPANISH or FRENCH for the Language Menu
- 5 Press the ACTION button twice to exit the Language Menu

**Note:** Press the ACTION button again to return to Language Icon

# Set Up Features

- Set Time
- Set Day
- Mode (TV or Cable)
- Auto Program
- Manual Program
- CC On Mute
- CC Mode

Located On Remote Control



- 4 Press the CH UP/DOWN button to highlight SET TIME hours



- 5 Press the VOL LEFT/RIGHT button to Set Hours (set AM/PM accordingly)
- 6 Press the CH DOWN button to highlight minutes position
- 7 Press the VOL LEFT/RIGHT button to set minutes
- 8 Press the ACTION button twice to exit the Set Up Menu

**Note:** Pressing the ACTION button again will return to Set Up Icon

**Set Time** – Clock (when set) will display On Screen at initial turn on, after a channel change and when pressing Recall button. It must be set to operate the dual Timer feature

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu



**Set Day** – The day of the week must be set in order to operate the Dual Timer feature

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT button to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu

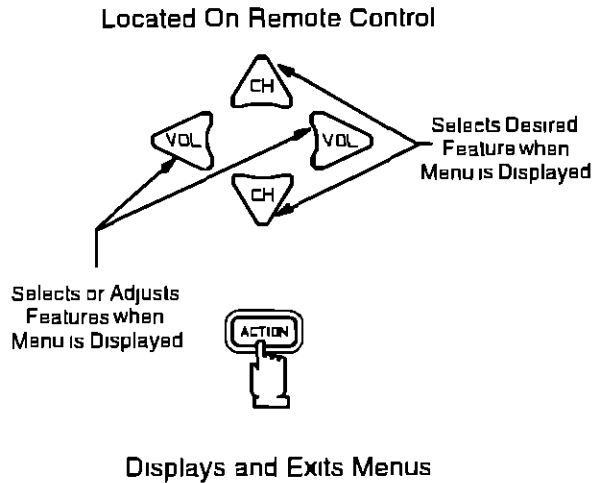


- 4 Press the CH UP/DOWN button to highlight SET DAY
- 5 Press the VOL LEFT/RIGHT button to select proper day of the week
- 6 Press the ACTION button twice to exit the Set Up Menu

## StarSight Notes:

- The Set Time and Set Day Features are not functional when StarSight is activated
- Time and Day are automatically set when StarSight is active

# Set Up Features (cont.)



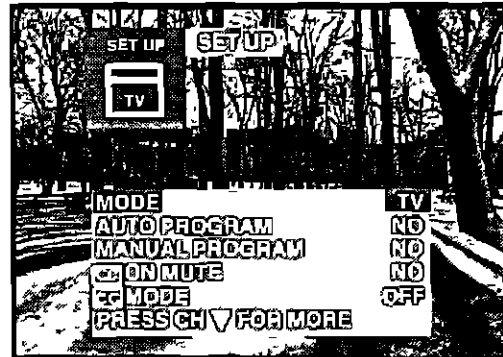
## Mode (TV or Cable)

**IMPORTANT NOTE.** The proper input mode must be selected for the type of signal at the antenna input.

- TV is used when the Receiver is not connected to a Cable TV System, for example, when using a VHF/UHF antenna (Channels 02-69)
- CABLE is used when the Receiver is connected to a Cable TV System

**Note:** Some Cable TV Systems encode (scramble) program material on specific channels. A cable company supplied decoder is required to reproduce an acceptable picture. Certain Cable TV Systems offset some channels to reduce interference. It will be necessary to use the cable company supplied converter to receive these specific channels.

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu



- 4 Press the CH UP/DOWN button to highlight Mode
- 5 Press the VOL LEFT/RIGHT button to select TV or CABLE
- 6 Press the ACTION button twice to exit the Set Up Menu

### StarSight Notes:

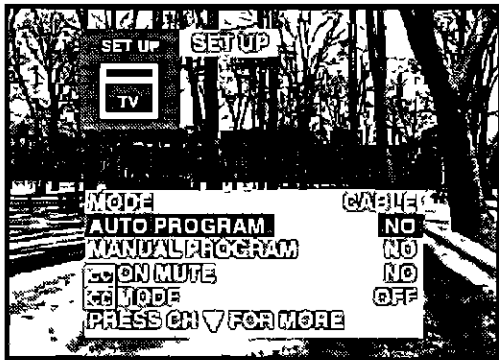
- MODE is automatically set and locked to whatever setting StarSight is using when StarSight is active

## Set Up Features (cont.)

**Auto Program** – The Auto Programming feature allows you to place all channels with a video signal into Channel Scan Memory. When you press the CHANNEL UP or DOWN button, only those channels with a video signal will be accessed.

**Note.** TV or Cable Tuning mode must be set properly for your system.

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT button to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu



- 4 Press the CH UP/DOWN button to highlight AUTO PROGRAM
- 5 Press the VOL LEFT/RIGHT button to start Auto Programming. Scan Channels will automatically advance until all channels have been scanned.
  - Channel numbers with video signal present will turn blue which indicates stored in Channel Scan Memory
- 6 Press the ACTION button twice to exit the Set Up Menu

**Note:** Some channels with very weak signals may be locked into memory. If desired, these channels can be deleted manually using the Manual Program feature.

### Helpful Hints:

#### After Auto Programming:

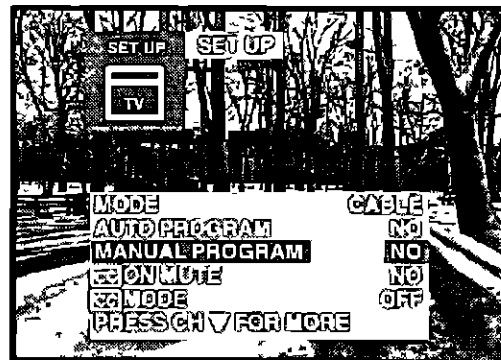
Blue channel number indicates channel is in Channel Scan Memory.

All channels are available by direct access using the numeric keypad (0 through 9 buttons).

Up to 15 channels will be programmed into the FAVORITE Channel Scan after Auto Programming Scan has been completed. Any original channels that were programmed into FAV CHANNEL will remain. (Refer to Favorite Channel Scan for deleting unwanted channels.)

**Manual Program** – This feature allows you to select which channels are placed into Channel Scan Memory, so when you press the CHANNEL UP/DOWN button, only those channels you desire will be accessed.

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu



- 4 Press the CH UP/DOWN button to highlight MANUAL PROGRAM
- 5 Press the VOL LEFT/RIGHT button to display Manual Program Menu



- 6 Use the Remote Control Numeric Keypad (0 through 9 buttons) or CH UP/DOWN buttons to select channels
- 7 Press the VOL RIGHT button to add channel(s) to memory (blue). Press the VOL LEFT button to delete channel(s) from memory (yellow)
- 8 Repeat Steps 6 and 7 to continue adding or deleting channels
- 9 Press the ACTION button twice to exit the Set Up Menu



## Set Up Features (cont.)

**CC Closed Caption** – This Receiver has a built in decoder that provides a visual depiction of the audio portion of a television program in the form of written words across the screen (white or colored letters on a black background) It allows the viewer to read the dialogue of a television program or other information

### CC On Mute

Activates the On-Screen Closed Caption feature, when the MUTE button on the Remote Control is pressed To deactivate press the MUTE button again

**Note:** This feature functions when the Closed Caption Mode is in the "OFF" position The program being viewed must be broadcast with Closed Caption (Refer to your local TV guide )

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu



- 4 Press the CH UP/DOWN button to highlight CC ON MUTE
- 5 Press the VOL LEFT/RIGHT button to select NO (OFF), C1, C2, C3, or C4

**Note:** Recommended menu Set Up for Closed Caption when using Mute Button

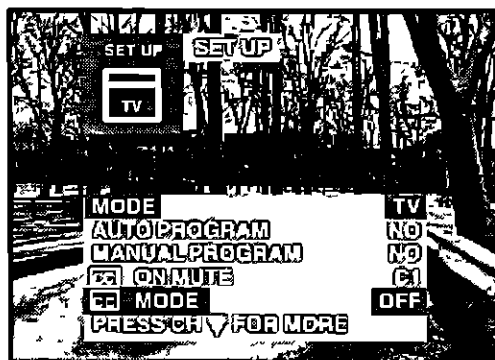
- CC ON MUTE C1
- CC MODE OFF

- 6 Press the ACTION button twice to exit the Set Up Menu
- 7 Press the MUTE button when the program being viewed is broadcast with Closed Caption to activate

**Note:** Press the MUTE button again to deactivate

**CC Mode** – Activates the On-Screen Closed Caption feature When activated this feature will remain on until OFF is selected in this menu

- 1 Press the ACTION button to display the Main Menu
- 2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set Up Icon
- 3 Press the ACTION button to display the Set Up Menu



- 4 Press the CH UP/DOWN button to highlight CC MODE
- 5 Press the VOL LEFT/RIGHT button to select OFF, C1, C2, T1, T2, C3, C4, T3, or T4
  - **CAPTION OFF** – Recommended mode when Closed Caption is not being used
  - **CAPTION C1** – For video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture) Script can be in any language
  - **CAPTION C2** – Another mode used for video related information
  - **TEXT T1** – Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted
  - **TEXT T2** – Another mode which displays information and blanks out a large portion of the picture on the television screen
  - **CAPTION C3** – Another mode used for video related information
  - **CAPTION C4** – Another mode used for video related information
  - **TEXT T3** – Another mode which displays information and blanks out a large portion of the picture on the television screen
  - **TEXT T4** – Another mode which displays information and blanks out a large portion of the picture on the television screen
- 6 Press the ACTION button twice to exit the Set Up Menu

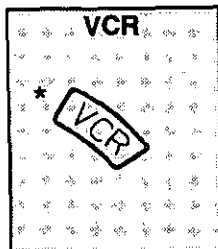


# VCR Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of VCRs. Refer to page 42 for programming procedures.

**NOTE:** The Universal Remote Control memory is limited. Some models of VCRs may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

**NOTE:** After entering the proper infrared code, press the Remote VCR Selection Mode button (\*). To operate the Remote VCR function buttons, refer to pages 16 and 17 for Remote Control Key Functions.



| Code Index For VCRs |  |                 |                                   |
|---------------------|--|-----------------|-----------------------------------|
| VCR Brand           | Code(s)                                | VCR Brand       | Code(s)                           |
| Adventura           | 000                                    | MTC             | 000, 240                          |
| Aiko                | 278                                    | Multitech       | 000, 072                          |
| Aiwa                | 000                                    | NEC             | 038, 041, 067                     |
| Akai                | 041, 061                               | Nikko           | 037                               |
| American High       | 035                                    | Noblex          | 240                               |
| Asha                | 240                                    | Olympus         | 035                               |
| Audiovox            | 037                                    | Optimus         | 037, 048, 104                     |
| Beaumarck           | 240                                    | Panasonic       | 035, 162, 225, 454                |
| Bell & Howell       | 104                                    | Penney          | 035, 037, 038, 042                |
| Broksonic           | 121, 184                               |                 | 240                               |
| Calix               | 037                                    | Pentax          | 042                               |
| Canon               | 035                                    | Philco          | 035                               |
| Carver              | 081                                    | Philips         | 035, 081                          |
| CCE                 | 072, 278                               | Pilot           | 037                               |
| Citizen             | 037, 278                               | Pioneer         | 067                               |
| Colt                | 072                                    | Protec          | 072                               |
| Craig               | 037, 047, 072, 240                     | Pulsar          | 039                               |
| Curtis Mathes       | 035, 041, 060                          | Quarter         | 046                               |
| Cybemex             | 240                                    | Quartz          | 046                               |
| Daewoo              | 045, 278                               | Quasar          | 035                               |
| Dynatech            | 000                                    | Radio Shack     | 000, 037                          |
| Electrohome         | 037                                    | Radix           | 037                               |
| Electroponic        | 037                                    | Randex          | 037                               |
| Emerex              | 032                                    | RCA             | 042, 060                          |
| Emerson             | 000, 002, 037, 043, 061, 121, 184, 278 | Realistic       | 000, 035, 037, 046                |
|                     |  |                 | 047, 048, 104, 240                |
| Fisher              | 047, 104                               | Ricoh           | 034                               |
| Fuji                | 033, 035                               | Runco           | 039                               |
| Funai               | 000                                    | Samsung         | 045, 240                          |
| Garrard             | 000                                    | Sanky           | 039, 048                          |
| GE                  | 035, 060                               | Sansui          | 041, 067                          |
| Goldstar            | 037, 038                               | Sanyo           | 046, 047, 104, 240                |
| Gradiente           | 000                                    | Scott           | 043, 045, 121, 184                |
| Harley Davidson     | 000                                    | Sears           | 035, 037, 042, 046, 047, 104      |
| Harman/kardon       | 038                                    |                 | 048                               |
| Harwood             | 072                                    | Sharp           | 072                               |
| Headquarter         | 046                                    | Shintom         | 240                               |
| HI-Q                | 047                                    | Shogun          | 072                               |
| Hitachi             | 041, 042                               | Singer          | 032, 033, 034, 035                |
| Jensen              | 041                                    | Sony            | 042                               |
| JVC                 | 041, 067                               | STS             | 000, 035, 043, 081                |
| Kenwood             | 038, 041, 067                          | Sylvania        | 000                               |
| KLH                 | 072                                    | Symphonic       | 041                               |
| Kodak               | 035, 037                               | Tatung          | 000, 041                          |
| Lloyd               | 000                                    | Teac            | 035, 162                          |
| Logik               | 072                                    | Technics        | 000, 035, 037                     |
| LXI                 | 037                                    | Teknika         | 240                               |
| Magnavox            | 035, 039, 081                          | TMK             | 043, 045                          |
| Magnin              | 240                                    | Toshiba         | 037, 240                          |
| Marantz             | 035, 081                               | Totevision      | 240                               |
| Marta               | 037                                    | Unitech         | 045                               |
| Matsushita          | 035                                    | Vector          | 038                               |
| MEI                 | 035                                    | Vector Research | 045, 061                          |
| Memorex             | 000, 035, 037, 039, 046, 047, 048, 104 | Video Concepts  | 240                               |
|                     |  | Videosonic      | 000, 035, 042, 047, 048, 072, 240 |
| MGA                 | 043, 061                               | Wards           | 000, 035, 072                     |
| MGN Technology      | 240                                    |                 | 038                               |
| Minolta             | 042                                    | XR-1000         | 033, 034, 039                     |
| Mitsubishi          | 043, 061, 067                          | Yamaha          |                                   |
| Motorola            | 035, 048                               | Zenith          |                                   |

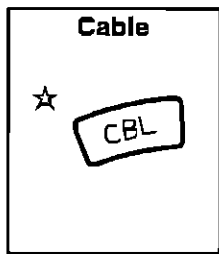
# CABLE CONVERTER BOX AND CD PLAYERS

## Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cable Converter Boxes, and CD Players Refer to page 42 for programming procedures

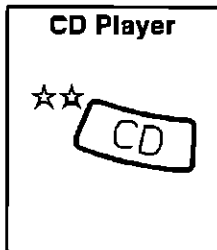
**NOTE:** The Universal Remote Control memory is limited Some models of Cable Converter Boxes and CD Players may not operate The Universal Remote Control is not designed to control all features that are available in all models

**NOTE:** After entering the proper infrared code, press the Remote **CBL** Selection Mode button (☆) To operate the Remote Cable function buttons, refer to pages 16 and 17 for Remote Control Key Functions



| Codes For Cable Converter Box |                                   |                       |               |
|-------------------------------|-----------------------------------|-----------------------|---------------|
| Brand of Cable-TV Box         | Code(s)                           | Brand of Cable-TV Box | Code(s)       |
| ABC                           | 003, 007, 008, 011, 013, 014, 017 | Pioneer               | 144, 533      |
| Archer                        | 153                               | Pulsar                | 000           |
| Century                       | 153                               | RCA                   | 021           |
| Cibzen                        | 153                               | Regal                 | 020, 259      |
| Contac                        | 019                               | Rembrandt             | 011           |
| Dae Ryung                     | 008                               | Runco                 | 000           |
| Garrard                       | 153                               | Samsung               | 144           |
| Gemini                        | 015                               | Scientific Atlanta    | 008, 017, 477 |
| General Instrument            | 011, 476                          | Signal                | 015           |
| Goldstar                      | 144                               | Signature             | 011           |
| Hamlin                        | 009, 020, 259                     | Sprucer               | 021           |
| Hitachi                       | 011                               | Starcom               | 003, 015      |
| Hylex                         | 007                               | Stargate              | 015           |
| Jasco                         | 153                               | Starquest             | 015           |
| Jerrold                       | 003, 011, 012, 014, 015, 476      | Tocom                 | 012, 013      |
| Memorex                       | 000                               | Toshiba               | 000           |
| Oak                           | 007, 019                          | Tusa                  | 015           |
| Panasonic                     | 000, 021, 107                     | Unika                 | 153           |
| Paragon                       | 000                               | United Artists        | 007           |
| Philips                       | 153                               | United Cable          | 003           |
|                               |                                   | Universal             | 153           |
|                               |                                   | Zenith                | 000, 525      |

**NOTE:** After entering the proper infrared code press the Remote **CD** Selection Mode button (☆☆) To operate the Remote CD Player function buttons, refer to pages 16 and 17 for Remote Control Key Functions



| Codes For CD Players |                    |                     |                              |
|----------------------|--------------------|---------------------|------------------------------|
| Brand of CD Players  | Code(s)            | Brand of CD Players | Code(s)                      |
| Aiwa                 | 124, 157           | Onkyo               | 101                          |
| CA Audio Lab         | 029                | Optimus             | 000, 032, 037, 305, 426, 468 |
| Carver               | 157                | Panasonic           | 029, 367                     |
| Denon                | 003                | Philips             | 157                          |
| DKK                  | 000                | Pioneer             | 032, 468                     |
| Emerson              | 305                | Proton              | 157                          |
| Fisher               | 048                | QED                 | 157                          |
| Genesys              | 032, 305           | Quasar              | 029                          |
| Harman-Kardon        | 426                | RCA                 | 305                          |
| Hitachi              | 032                | Rotel               | 157                          |
| JVC                  | 072                | SAE                 | 157                          |
| Kenwood              | 028, 037, 048, 190 | Sansui              | 157, 305                     |
| Krell                | 157                | Scott               | 305                          |
| LXI                  | 305                | Sears               | 305                          |
| Magnavox             | 157                | Sharp               | 037                          |
| Marantz              | 029, 157           | Sherwood            | 426                          |
| MCS                  | 029                | Sony                | 000                          |
| Mission              | 157                | Technics            | 029, 303                     |
| Nakamichi            | 147                | Victor              | 072                          |
| NSM                  | 157                |                     |                              |

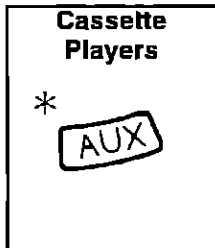
# CASSETTE PLAYERS, RECEIVERS, and AMPLIFIERS

## Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cassette Players, Receivers, or Amplifiers. Refer to page 42 for programming procedures.

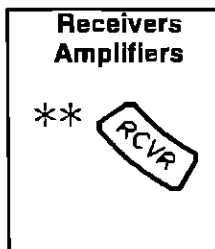
**NOTE:** The Universal Remote Control memory is limited. Some models of Cassette Players, Receivers, and Amplifiers may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

**NOTE:** After entering the proper infrared code, press the Remote **AUX** Selection Mode button (\*) To operate the Remote Cassette Player function buttons, refer to pages 16 and 17 for Remote Control Key Functions.



| Code Index For Cassette Players |                    |                           |          |
|---------------------------------|--------------------|---------------------------|----------|
| Brand of Cassette Players       | Code(s)            | Brand of Cassette Players | Code(s)  |
| Aiwa                            | 029                | Panasonic                 | 272      |
| Carver                          | 029                | Philips                   | 029      |
| Denon                           | 076                | Pioneer                   | 027, 220 |
| Kenwood                         | 070                | Sansui                    | 029      |
| Magnavox                        | 029                | Sherwood                  | 337, 338 |
| Marantz                         | 029                | Sony                      | 170, 243 |
| Nakamichi                       | 147                | Technics                  | 229      |
| Optimus                         | 027, 220, 337, 338 | Wards                     | 027      |
|                                 |                    | Yamaha                    | 094, 097 |

**NOTE:** After entering the proper infrared code, press the Remote **RCVR** Selection Mode button (\*\*). To operate the Remote Receiver or Amplifier function buttons, refer to pages 16 and 17 for Remote Control Key Functions.



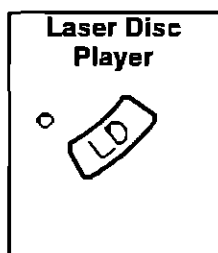
| Code Index For Receivers And Amplifiers |                              |                               |                              |
|---|------------------------------|-------------------------------|------------------------------|
| Brand of Receiver / Amplifier           | Code(s)                      | Brand of Receiver / Amplifier | Code(s)                      |
| ADC                                     | 531                          | Panasonic                     | 039                          |
| Aiwa                                    | 121, 158, 189                | Penney                        | 195                          |
| Carver                                  | 008, 042, 189, 269           | Philips                       | 189, 269                     |
| Casio                                   | 195                          | Pioneer                       | 013, 014, 080, 300, 531      |
| Clannette                               | 195                          | Quasar                        | 039                          |
| Denon                                   | 004                          | RCA                           | 531                          |
| Fisher                                  | 042, 219                     | Realistic                     | 195                          |
| JVC                                     | 074                          | Sansui                        | 189, 321                     |
| Kenwood                                 | 027, 186                     | Sanyo                         | 219                          |
| Lloyd's                                 | 195                          | Sharp                         | 186                          |
| Magnavox                                | 189, 195, 269, 531           | Sherwood                      | 502                          |
| Marantz                                 | 039, 189, 269, 321           | Sony                          | 158                          |
| MCS                                     | 039                          | Technics                      | 039, 208, 308, 309, 518      |
| Modulare                                | 195                          | Victor                        | 074                          |
| NAD                                     | 320                          | Wards                         | 013, 014, 042, 080, 158, 189 |
| Nakamichi                               | 321, 347                     | Yamaha                        | 176, 186, 354                |
| Onkyo                                   | 135                          | Yonx                          | 195                          |
| Optimus                                 | 013, 080, 186, 219, 300, 531 |                               |                              |

# LASER DISC, DSS (Digital Satellite System), and DVD (Digital Videodisc) Infrared Codes Index

The Universal Infrared Remote Control is capable of operating selected brands of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc) Refer to page 42 for programming procedures

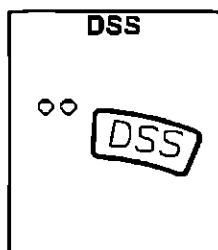
**NOTE:** The Universal Remote Control memory is limited. Some models of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc) may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

**NOTE:** After entering the proper infrared code, press the Remote LD Selection Mode button (◊) To operate the Remote Laser Disc function buttons, refer to pages 16 and 17 for Remote Control Key Functions



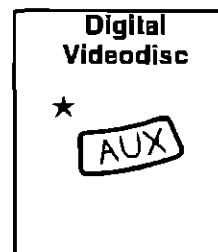
| <b>Codes For Laser Disc</b> |         |
|-----------------------------|---------|
| Brand of Laser Disc         | Code(s) |
| Mitsubishi                  | 059     |
| NAD                         | 059     |
| Panasonic                   | 204     |
| Pioneer                     | 059     |
| Quasar                      | 204     |
| Sony                        | 201     |

**NOTE:** After entering the proper infrared code, press the Remote DSS Selection Mode button (◊◊) To operate the Remote Satellite function buttons, refer to pages 16 and 17 for Remote Control Key Functions



| <b>Codes For DSS (Digital Satellite System)</b> |         |
|---|---------|
| Brand of Satellite                              | Code(s) |
| Panasonic                                       | 701     |
| RCA   | 566     |
| Sony  | 639     |

**NOTE:** After entering the proper infrared code, press the Remote AUX Selection Mode button (★) To operate the Remote DVD (Digital Videodisc) function buttons, refer to pages 16 and 17 for Remote Control Key Functions



| <b>Codes For DVD (Digital Videodisc)</b> |         |
|--|---------|
| Brand of DVD                             | Code(s) |
| Panasonic                                | 490     |

# Care and Cleaning

## Picture Tube (Turn set off)

Use a mild soap solution or window cleaner and a clean cloth DO NOT USE ABRASIVE CLEANERS Avoid excessive moisture and wipe dry

## Plastic Cabinets

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth Avoid excessive moisture Do not use benzene, thinners or other petroleum based cleaners

## Wood Cabinets

When dusting or polishing the cabinet, use a clean soft cloth and stroke straight with the grain An occasional coat of furniture polish will help preserve the finish Do not use benzene, thinners or other petroleum based cleaners Do not place objects made of plastic or rubber directly on top of the cabinet A chemical reaction could result causing permanent marring of the finish

## Remote Control Transmitter

Do not use benzene, thinners or other petroleum based cleaners to clean the Remote Control Transmitter To clean, wipe with a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth





















## Power Loss

Prolonged power interruption causes the following features to reset to their factory preset state.

| FEATURE         | FACTORY PRESET STATE | FEATURE         | FACTORY PRESET STATE |
|-----------------|----------------------|-----------------|----------------------|
| POWER           | OFF                  | SLEEP TIMER     | NO/OFF               |
| VOLUME          | APPROX -1/3          | TIMER           | NO/OFF               |
| CHANNEL         | CH 03                | ANTENNA MODE    | CABLE                |
| PROGRAM MEMORY  | UNPROGRAMMED         | TV/VIDEO        | TV                   |
| VIDEO MENUS     | NORMALIZED           | NOISE REDUCTION | OFF                  |
| AUDIO MENUS     | NORMALIZED           | PIP FEATURES    | OFF                  |
| STEREO/SAP/MONO | STEREO               | AUTO COLOR      | ON                   |
| CLOCK           | NOT SET              | MENU LANGUAGE   | ENGLISH              |

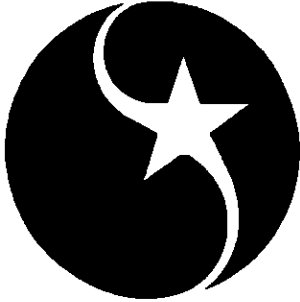
# Troubleshooting Chart

Before you call for service, determine the symptoms and make a few simple checks shown below

| Symptoms  |   | Check   |
|---|---|---|
| Picture   | Sound   |   |
| <br>SNOWY PICTURE          | <br>NOISY SOUND    | <ul style="list-style-type: none"> <li>- ANTENNA LOCATION AND/OR CONNECTION</li> </ul>  |
| <br>MULTIPLE IMAGE         | <br>NORMAL SOUND   | <ul style="list-style-type: none"> <li>- ANTENNA DIRECTION AND/OR LOCATION</li> <li>- ANTENNA LEAD-IN WIRE</li> </ul>   |
| <br>INTERFERENCE           | <br>NOISY SOUND    | <ul style="list-style-type: none"> <li>- ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS</li> <li>- DIATHERMY AND OTHER MEDICAL EQUIPMENT</li> </ul>   |
| <br>NORMAL PICTURE         | <br>NO SOUND       | <ul style="list-style-type: none"> <li>- VOLUME CONTROL SETTING</li> <li>- MUTE CONTROL (IF APPLICABLE)</li> <li>- TV SPEAKER SWITCH (IF APPLICABLE) IN OFF OR EXT POSITION</li> <li>- TRY ANOTHER CHANNEL</li> </ul> |
| <br>NO VIDEO               | <br>NOISY SOUND    | <ul style="list-style-type: none"> <li>- TV/ANT-CABLE TUNING SYSTEM SET TO PROPER SETTING</li> <li>- ANTENNA INPUT MODE INCORRECT</li> </ul>  |
| <br>NO PICTURE            | <br>NO SOUND      | <ul style="list-style-type: none"> <li>- CHECK THAT AC POWER LINE IS PLUGGED INTO AC OUTLET AND POWER BUTTON IS ON</li> <li>- BRIGHTNESS AND AUDIO CONTROLS SET PROPERLY</li> <li>- TRY ANOTHER CHANNEL</li> </ul>    |
| <br>NO COLOR             | <br>NORMAL SOUND | <ul style="list-style-type: none"> <li>- COLOR CONTROL SETTINGS</li> <li>- TRY ANOTHER CHANNEL</li> </ul>   |
| <br>BLUE PICTURE         | <br>NO SOUND     | <ul style="list-style-type: none"> <li>- RECEIVER IN VIDEO MODE WITH NO SIGNAL</li> </ul>   |
| <br>NO VIDEO             | <br>NOISY SOUND  | <ul style="list-style-type: none"> <li>- CHANNEL LOCKOUT FEATURE ACTIVATED</li> </ul>   |
| <br>BLACK BOX IN PICTURE | <br>SOUND        | <ul style="list-style-type: none"> <li>- CC (CLOSED CAPTION) IN TEXT MODE</li> <li>- PUT IN CAPTION OFF MODE TO ELIMINATE BLACK BOX</li> </ul>  |

Should this unit turn ON momentarily and then turn OFF, or fail to operate, unplug the AC cord, and contact your Authorized Servicer for repairs





**STAR**  
**SIGHT®**

## **Installation and Activation Guide**

StarSight



## Getting Started with StarSight®

StarSight is a new way to receive and display TV program information and manage the many channels you receive. With StarSight, you can:

- Record a program with the touch of a button.
- See an instant description of what's on any channel.
- Select a program from a list that displays your favorite types of shows by theme (movies, sports, comedies, etc.).
- Get information about plots, actors, movie ratings, show times.
- Tune from an on-screen guide right to the program you selected.
- Rearrange the order of channels to put your favorite ones first.

## Installing StarSight

To bring StarSight information into your home you must complete these simple steps in the following order:

- Make sure your equipment is hooked up according to the instructions in the *Installing Your TV Set* section of this operating guide.
- Fill out the StarSight Checklist on the next page.
- Activate StarSight by following the directions on your TV screen. The entire process takes only a few minutes.
- Test your StarSight setup. If you have a Cable Box or VCR, you will be guided through an on-screen process that will determine the codes that operate your equipment.

**Please follow the directions on the following pages, then call:  
1-800-643-STAR**

Your Panasonic TV that is equipped with the StarSight system is not designed to operate with, or control, a satellite dish. For information on StarSight products specifically designed for satellite systems, see your local satellite dealer.

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# StarSight Checklist

Please fill in the blanks below. Keep this Checklist close at hand when you activate StarSight. You will find the information you need to complete this Checklist in the *PBS Stations*, *Cable Box Codes* and *VCR Codes* sections of this guide.

## A. PBS Stations:

From the *PBS Stations* section, find the PBS station closest to your city (If you have a choice of two or more PBS stations, select the one with the clearest picture.) Write the PBS station letters and channel number below.

**PBS Station Letters:** \_\_\_\_\_

**PBS Station Channel Number:** \_\_\_\_\_

### For Cable Users Only:

Check your cable company's channel line-up or your local newspaper's TV listing to see if the PBS station in your area has a different channel number than the one you wrote down above. If so, enter your PBS station's cable channel number here \_\_\_\_\_

(You will tune to this channel number during the activation process.)

### For Canadian Customers Only:

From the *PBS Stations for Canadian Customers* section on page 58, find the PBS station that you receive (If you have a choice of two or more PBS stations, select the one with the clearest picture.) Write the PBS station letters and channel number in the spaces provided above.

## B. Code Numbers:

From the *Cable Box Codes* section, find the code numbers that apply to your brand of Cable Box and enter them below.

**Code 1:** \_\_\_\_\_ **Code 2:** \_\_\_\_\_ **Code 3:** \_\_\_\_\_ **Code 4:** \_\_\_\_\_ **Code 5:** \_\_\_\_\_

From the *VCR Codes* section, find the code numbers that apply to your brand of VCR and enter them below.

**Code 1:** \_\_\_\_\_ **Code 2:** \_\_\_\_\_ **Code 3:** \_\_\_\_\_ **Code 4:** \_\_\_\_\_ **Code 5:** \_\_\_\_\_

## C. Activating StarSight:

Now go to the *Activating StarSight* section on the next page. During activation, StarSight will display your STAR number and ID number on your TV screen. When these numbers appear, write them below.

**STAR #:** \_\_\_\_\_

**ID #:** \_\_\_\_\_

StarSight




# Activating StarSight

For your TV to receive StarSight information, you need to activate StarSight. You complete the process directly through your TV, in simple steps that take only minutes.

1. Follow the step-by-step instructions for connecting your VCR and setting up your Cable Box in the beginning of this operating guide. Be sure to position your Remote Emitter in front of your Cable Box or VCR.
2. Complete parts A and B of the StarSight Checklist.
3. Have your Panasonic TV remote control handy.
4. Have a telephone nearby to call StarSight's toll-free activation number 1-800-643-STAR.
5. Follow the *To Activate StarSight* instructions below.







## To Activate StarSight:

If you have a Cable Box, make sure your TV is tuned to the Cable Box output channel (usually channel 3 or 4).

1. Press  on your Panasonic TV remote control to use StarSight.
2. If you have a Cable Box, tune it to the PBS channel on your StarSight Checklist. Do this manually or with your Cable Box remote control.

If you do not have a Cable Box, use the number pad on your Panasonic TV remote control to tune your TV to the correct PBS channel. StarSight will search for schedule information on this channel.

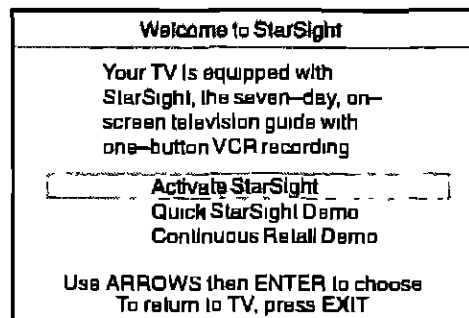
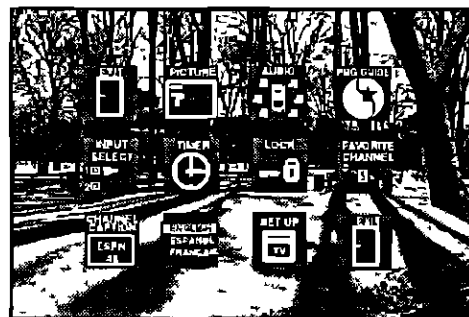
3. Press  to display the Panasonic TV menu.

Use , ,  or  to highlight  then press .

4. You'll see the "Welcome to StarSight" menu.

Highlight "Activate StarSight," then press .

Follow the on-screen instructions.

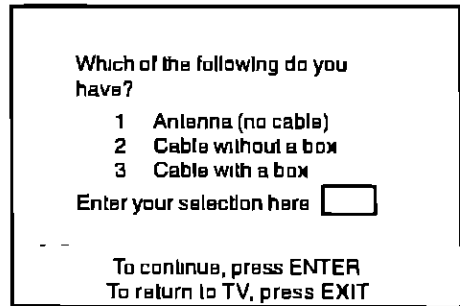


StarSight

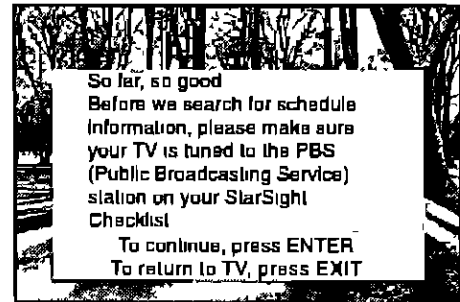


## Activating StarSight (cont.)

- 5 StarSight asks you to enter a selection for your equipment

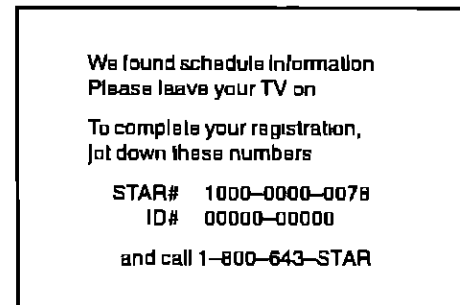


6. StarSight then asks you to tune to your PBS station  
(If you have a Cable Box, you will tune it to your PBS station )  
(If you don't have a Cable Box, you will tune your TV to your PBS station )  
Make sure you have tuned to your PBS station, and continue following the on-screen instructions



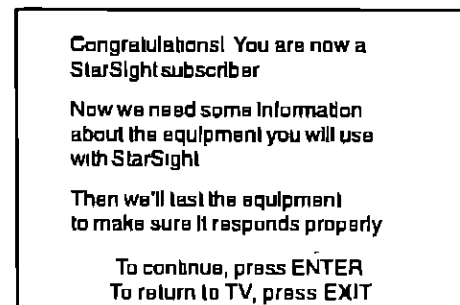
7. Next, StarSight displays your STAR # and ID #  
(Please write these numbers in section C of your StarSight Checklist )

Call StarSight toll free at **1-800-643-STAR**.



8. When you call StarSight, you will be asked for your STAR # and ID # StarSight will then be activated in your TV

- 9 When StarSight has been activated, you will see a "Congratulations!" message



10. Press  to continue

### YOU SHOULD ALSO KNOW...

- StarSight works with almost all Cable Boxes that can be operated by a wireless remote control
- If no schedule data is found, you may be tuned to the wrong PBS station Check the PBS station written on your StarSight Checklist and try again Or, try tuning to a different PBS station that is listed for your area in the *PBS Stations* section (If no station is listed for your area, call **1-800-628-STAR** for further information )



## Testing 1, 2, 3

### Checking Your StarSight Setup

Now that you've subscribed, the final step is to test your equipment setup. Here's how:

1. Press  on your remote control when you see the "Congratulations!" message.

StarSight will now guide you through a series of on-screen displays. Please follow the instructions carefully. All you have to do is respond to the on-screen prompts.

2. Find the Cable Box and VCR codes on your StarSight Checklist.

If you've listed more than one code for a given brand of Cable Box and VCR, don't worry...StarSight lets you test each code until the correct one has been entered.

Be sure the Remote Emitters you placed previously are positioned according to the instructions.

3. With your equipment set up and StarSight activation complete, you'll begin to collect StarSight program information. Your system will be automatically updated with the latest program information whenever your TV is turned off or anytime your TV is tuned to your PBS station (the channel you used for activating StarSight.) Initially, it will take between 4 and 12 hours to collect program information. Don't be alarmed if your StarSight guide is not full right away; it has seven days of program information to collect. In a day or so, your data will be complete and will continue to be updated daily.

**That's it! Your Panasonic TV is now all set up and ready to collect program information.** To learn how to use StarSight, please see the separate *Using StarSight* guide.

#### YOU SHOULD ALSO KNOW...

- To maintain StarSight program information, always leave your TV power cord plugged in and your Cable Box on (if you have one).
- It usually takes 3 to 5 seconds to change channels with your Cable Box. This is the time it takes for the Cable Box Controller to communicate with your Cable Box.
- It is important that you leave your VCR off when it's not being used. If you forget to turn off your VCR, a scheduled recording cannot occur.

# PBS Stations

Choose the station closest to your city (It may be in a bordering state )

| City                    | Station | Channel | City            | Station | Channel | City                 | Station | Channel |
|-------------------------|---------|---------|-----------------|---------|---------|----------------------|---------|---------|
| <b>ALABAMA</b>          |         |         | Gainesville     | WUFT    | 5       | Fort Dodge           | KTIN    | 24      |
| Anniston                | WCIQ    | 7       | Jacksonville    | WJCT    | 7       | Iowa City            | KIIN    | 12      |
| Birmingham              | WBIQ    | 10      | Miami           | WPBT    | 2       | Mason City           | KYIN    | 24      |
| Decatur                 | WHIQ    | 25      | Naples          | WSFP    | 30      | Red Oak              | KHIN    | 36      |
| Dolhan                  | WGIQ    | 43      | Orlando         | WMFE    | 24      | Sioux City           | KSIN    | 27      |
| Huntsville              | WHIQ    | 25      | Panama City     | WFSG    | 56      | Waterloo             | KRIN    | 32      |
| Mobile                  | WEIQ    | 42      | Pensacola       | WSRE    | 23      | <b>KANSAS</b>        |         |         |
|                         | WSRE    | 23      | St Petersburg   | WEDU    | 3       | Lakin                | KSWK    | 3       |
| Montgomery              | WAIQ    | 26      | Tallahassee     | WFSU    | 11      | Pittsburg            | KOZJ    | 26      |
| <b>ALASKA</b>           |         |         | Tampa           | WEDU    | 3       | Topeka               | KTWU    | 11      |
| Anchorage               | KAKM    | 7       | Thomasville     | WFSU    | 11      | <b>KENTUCKY</b>      |         |         |
| Fairbanks               | KUAC    | 9       | West Palm Beach | WXEL    | 42      | Bowling Green        | WKYU    | 24      |
| <b>ARIZONA</b>          |         |         | <b>GEORGIA</b>  |         |         | Cape Girardeau       | WSIU    | 8       |
| Phoenix                 | KAET    | 8       | Albany          | WABW    | 14      | Lexington            | WKLE    | 46      |
| Tucson                  | KUAT    | 6       | Allanta         | WGTV    | 8       | Louisville           | WKPC    | 15      |
| <b>ARKANSAS</b>         |         |         | Augusta         | WCES    | 20      | Paducah              | WSIU    | 8       |
| Little Rock             | KETS    | 2       | Chatsworth      | WCLP    | 18      | Tri-Cities           | WSBN    | 47      |
| Pine Bluff              | KETS    | 2       | Columbus        | WJSP    | 28      | <b>LOUISIANA</b>     |         |         |
| <b>CALIFORNIA</b>       |         |         | Dawson          | WACS    | 25      | Alexandria           | KLPA    | 25      |
| Eureka                  | KEET    | 13      | Macon           | WDCO    | 15      | Baton Rouge          | WLPB    | 27      |
| Fresno                  | KVPT    | 18      | Savannah        | WVAN    | 9       | El Dorado            | KLTM    | 13      |
| Los Angeles             | KCET    | 28      | Waycross        | WXGA    | 8       | Lafayette            | KLPB    | 24      |
| Monterey                | KTEH    | 54      | <b>HAWAII</b>   |         |         | Lake Charles         | KLTL    | 18      |
| Redding                 | KIXE    | 9       | Honolulu        | KHET    | 11      | Monroe               | KLTM    | 13      |
| Sacramento              | KVIE    | 6       | Waikiki         | KMEB    | 10      | New Orleans          | WYES    | 12      |
| Salinas                 | KTEH    | 54      | <b>IDAHO</b>    |         |         | Shreveport           | KLTS    | 24      |
| San Diego               | KPBS    | 15      | Boise           | KAID    | 4       | <b>MAINE</b>         |         |         |
| San Francisco           | KQED    | 9       | Idaho Falls     | KISU    | 10      | Bangor               | WMEB    | 12      |
| San Jose                | KQED    | 9       | Twin Falls      | KITT    | 13      | Calais               | WMED    | 13      |
| Santa Barbara           | KCET    | 28      | <b>ILLINOIS</b> |         |         | Lewiston             | WCBB    | 10      |
| Stockton                | KVIE    | 6       | Carbondale      | WSIU    | 8       | Presque Isle         | WMEM    | 10      |
| Visalia                 | KVPT    | 18      | Champaign       | WILL    | 12      | <b>MARYLAND</b>      |         |         |
| <b>COLORADO</b>         |         |         | Chicago         | WTTW    | 11      | Annapolis            | WMPT    | 22      |
| Colorado Springs        | KTSC    | 8       | Moline          | WQPT    | 24      | Baltimore            | WMPB    | 67      |
| Denver                  | KRMA    | 6       | Peoria          | WTVP    | 47      | Fredenck             | WFPT    | 62      |
| Pueblo                  | KTSC    | 8       | Quincy          | WQEC    | 27      | Hagerstown           | WWPB    | 31      |
| Connecticut             |         |         | Rock Island     | WQPT    | 24      | Oakland              | WGPT    | 36      |
| Bridgeport              | WEDW    | 49      | Springfield     | WILL    | 12      | Salisbury            | WCPB    | 28      |
| Hartford                | WEDH    | 24      | <b>INDIANA</b>  |         |         | <b>MASSACHUSETTS</b> |         |         |
| New Haven               | WEDY    | 65      | Eikhart         | WNIT    | 34      | Boston               | WGBH    | 2       |
|                         | WEDH    | 24      | Evansville      | WNIN    | 9       | Holyoke              | WGBY    | 57      |
| Norwich                 | WEDN    | 53      | Fort Wayne      | WFWA    | 39      | Springfield          | WGBY    | 57      |
| <b>DELAWARE</b>         |         |         | Indianapolis    | WFYI    | 20      | <b>MICHIGAN</b>      |         |         |
| Seaford                 | WDPB    | 64      | Lafayette       | WFYI    | 20      | Alpena               | WCML    | 6       |
| Wilmington              | WHYY    | 12      | South Bend      | WNIT    | 34      | Bad Axe              | WUCX    | 35      |
| <b>DIST OF COLUMBIA</b> |         |         | Vincennes       | WVUT    | 22      | Bay City             | WUCM    | 19      |
| Washington, D C         | WETA    | 26      | <b>IOWA</b>     |         |         | Detroit              | WTVS    | 56      |
| <b>FLORIDA</b>          |         |         | Ames            | KDIN    | 11      | Flint                | WFUM    | 28      |
| Daytona Beach           | WMFE    | 24      | Cedar Rapids    | KIIN    | 12      | Grand Rapids         | WGVU    | 35      |
| Ft Lauderdale           | WPBT    | 2       | Council Bluffs  | KBIN    | 32      | Kalamazoo            | WGVK    | 52      |
| Ft Myers                | WSFP    | 30      | Davenport       | KQCT    | 36      |                      | WGVU    | 35      |
|                         |         |         | Des Moines      | KDIN    | 11      | Lansing              | WKAR    | 23      |

StarSight

# PBS Stations (cont.)

Choose the station closest to your city (It may be in a bordering state )

| City           | Station | Channel | City           | Station | Channel | City           | Station | Channel |
|----------------|---------|---------|----------------|---------|---------|----------------|---------|---------|
| Marquette      | WNMU    | 13      | NEW JERSEY     |         |         | Oklahoma City  | KETA    | 13      |
| Mount Pleasant | WCMU    | 14      | N New Jersey   | WNET    | 13      | Tulsa          | KOED    | 11      |
| Saginaw        | WFUM    | 28      | S New Jersey   | WHYY    | 12      |                |         |         |
| Traverse City  | WCMW    | 21      |                |         |         | OREGON         |         |         |
| MINNESOTA      |         |         | NEW MEXICO     |         |         | Bend           | KOAB    | 3       |
| Austin         | KYIN    | 24      | Albuquerque    | KNME    | 5       | Corvallis      | KOAC    | 7       |
| Duluth         | WDSE    | 8       | Santa Fe       | KNME    | 5       | Eugene         | KEPB    | 28      |
| La Crescent    | WHLA    | 31      | NEW YORK       |         |         | Klamath Falls  | KFTS    | 22      |
| Mason City     | KYIN    | 24      | Albany         | WMHT    | 17      | Medford        | KSYS    | 8       |
| Minneapolis-   |         |         | Binghamton     | WSKG    | 46      | Portland       | KOPB    | 10      |
| St Paul        | KTCI    | 17      | Buffalo        | WNED    | 17      | PENNSYLVANIA   |         |         |
| Superior       | WDSE    | 8       | New York       | WNET    | 13      | Altoona        | WPSX    | 3       |
| MISSISSIPPI    |         |         | Norwood        | WNPI    | 18      | Erie           | WQLN    | 54      |
| Biloxi         | WMAH    | 19      | Plattsburgh    | WCFE    | 57      | Harrisburg     | WITF    | 33      |
| Bude           | WMAU    | 17      | Rochester      | WXXI    | 21      | Johnstown      | WPSX    | 3       |
| Columbus       | WMAB    | 2       | Schenectady    | WMHT    | 17      | Lancaster      | WITF    | 33      |
| Greenville     | WMAO    | 23      | Syracuse       | WCNY    | 24      | Philadelphia   | WHYY    | 12      |
| Greenwood      | WMAO    | 23      | Watertown      | WNPE    | 16      | Pittsburgh     | WQED    | 13      |
| Gulfport       | WMAH    | 19      | NORTH CAROLINA |         |         | Scranton       | WVIA    | 44      |
| Jackson        | WMPN    | 29      | Asheville      | WUNF    | 33      | Wilkes-Barre   | WVIA    | 44      |
| Meridian       | WMAV    | 14      | Charlotte      | WUNG    | 58      | RHODE ISLAND   |         |         |
| Oxford         | WMAV    | 18      | Columbia       | WUND    | 2       | New Bedford    | WSBE    | 36      |
| MISSOURI       |         |         | Greensboro     | WUNL    | 26      | Providence     | WSBE    | 36      |
| Hannibal       | WQEC    | 27      | Greenville     | WUNK    | 25      | SOUTH CAROLINA |         |         |
| Joplin         | KOZJ    | 26      | Jacksonville   | WUNM    | 19      | Allendale      | WEBA    | 14      |
| Kansas City    | KCPT    | 19      | Linville       | WUNE    | 17      | Beaufort       | WJWJ    | 16      |
| Pittsburg      | KOZJ    | 26      | Raleigh-Durham | WUNC    | 4       | Charleston     | WITV    | 7       |
| Springfield    | KOZK    | 21      | Roanoke Rapids | WUNP    | 36      | Columbia       | WRLK    | 35      |
| St Louis       | KETC    | 9       | Wilmington     | WUNJ    | 39      | Conway         | WHMC    | 23      |
| MONTANA        |         |         | NORTH DAKOTA   |         |         | Florence       | WJPM    | 33      |
| Bozeman        | KUSM    | 9       | Bismarck       | KBME    | 3       | Greenville     | WNTV    | 29      |
| Butte          | KUSM    | 9       | Drakinson      | KDSE    | 9       | Greenwood      | WNEH    | 38      |
| NEBRASKA       |         |         | Ellendale      | KJRE    | 19      | Huntington     | WPBY    | 33      |
| Basset         | KMNE    | 7       | Fargo          | KFME    | 13      | Rock Hill      | WNSC    | 30      |
| Hastings       | KHNE    | 29      | Grand Forks    | KGFE    | 2       | Spartanburg    | WRET    | 49      |
| Lexington      | KUON    | 12      | Minot          | KBME    | 3       | Sumter         | WRJA    | 2       |
| Lincoln        | KUON    | 12      | Williston      | KWSE    | 4       | SOUTH DAKOTA   |         |         |
| Merriman       | KRNE    | 12      | OHIO           |         |         | Aberdeen       | KDSD    | 16      |
| Norfolk        | KXNE    | 19      | Akron          | WEAO    | 49      | Brookings      | KESD    | 8       |
| North Platte   | KPNE    | 9       | Athens         | WOUB    | 20      | Eagle Butte    | KPSD    | 13      |
| Omaha          | KYNE    | 26      | Cleveland      | WVIZ    | 25      | Lowry          | KQSD    | 11      |
| Scottsbluff    | KTNE    | 13      | Cincinnati     | WCET    | 48      | Martin         | KZSD    | 8       |
| NEVADA         |         |         | Columbus       | WOSU    | 34      | Pierre         | KTSD    | 10      |
| Las Vegas      | KLVX    | 10      | Dayton         | WPTD    | 16      | Rapid City     | KBHE    | 9       |
| Reno           | KNPB    | 5       | Lima           | WBGU    | 27      | Vermillion     | KUSD    | 2       |
| NEW HAMPSHIRE  |         |         | Portsmouth     | WPBO    | 42      | TENNESSEE      |         |         |
| Durham         | WENH    | 11      | Steubenville   | WOUC    | 44      | Chattanooga    | WTCI    | 45      |
| Keene          | WEKW    | 52      | Toledo         | WGTE    | 30      | Jackson        | WLJT    | 11      |
| Littleton      | WLED    | 49      | Youngstown     | WNEO    | 45      | Johnson City   | WSJK    | 2       |
|                |         |         | OKLAHOMA       |         |         | Knoxville      | WKOP    | 15      |
|                |         |         | Cheyenne       | KWET    | 12      | Memphis        | WKNO    | 10      |
|                |         |         | Eufaula        | KOET    | 3       | Nashville      | WDCN    | 8       |
|                |         |         |                |         |         | Sneedville     | WSJK    | 2       |

Starsight



# PBS Stations (cont.)

Choose the station closest to your city (It may be in a bordering state )

| City           | Station | Channel | City                 | Station | Channel | City             | Station | Channel |
|----------------|---------|---------|----------------------|---------|---------|------------------|---------|---------|
| <b>TEXAS</b>   |         |         | <b>VIRGINIA</b>      |         |         | Charleston       | WPBY    | 33      |
| Amarillo       | KACV    | 2       | Arlington            | WETA    | 26      | Clarksburg       | WNPB    | 24      |
| Austin         | KLRU    | 18      | Charlottesville      | WHTJ    | 41      | Hunlington       | WPBY    | 33      |
| Corpus Christi | KEDT    | 16      | Harrisonburg         | WVPT    | 51      | Parkersburg      | WOUB    | 20      |
| Dallas         | KERA    | 13      | Lynchburg            | WBRA    | 15      | Weston           | WNPB    | 24      |
| El Paso        | KCOS    | 13      | Norfolk              | WHRO    | 15      | Wheeling         | WOUC    | 44      |
| Ft Worth       | KERA    | 13      | Norton               | WSBN    | 47      | <b>WISCONSIN</b> |         |         |
| Harlingen      | KMBH    | 60      | Petersburg           | WCVE    | 23      | Appleton         | WPNE    | 38      |
| Houston        | KUHT    | 8       | Portsmouth           | WHRO    | 15      | Eau Claire       | WHLA    | 31      |
| Lubbock        | KTXT    | 5       | Richmond             | WCVE    | 15      | Green Bay        | WPNE    | 38      |
| Odessa Midland | KOCV    | 36      | Roanoke              | WBRA    | 15      | La Crosse        | WHLA    | 31      |
| San Antonio    | KLRN    | 9       | <b>WASHINGTON</b>    |         |         | Madison          | WHA     | 21      |
| Temple         | KNCT    | 46      | Seattle              | KCTS    | 9       | Menomoneie       | WHWC    | 28      |
| Waco           | KNCT    | 46      | Spokane              | KSPS    | 7       | Milwaukee        | WMVS    | 10      |
| <b>UTAH</b>    |         |         | Tacoma               | KCTS    | 9       | Park Falls       | WLEF    | 36      |
| Salt Lake City | KUED    | 7       | Yakima               | KYVE    | 47      | Rhineland        | WHRM    | 20      |
| <b>VERMONT</b> |         |         | <b>WEST VIRGINIA</b> |         |         | Wausau           | WHRM    | 20      |
| Burlington     | WCVE    | 57      | Beckley              | WSWP    | 9       | <b>WYOMING</b>   |         |         |
|                |         |         | Bluefield            | WSWP    | 9       | Cheyenne         | KTNE    | 13      |
|                |         |         |                      |         |         | Evanston         | KUED    | 7       |

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# PBS Stations (cont.)

Choose the station closest to your city (It may be in a bordering state )

| <u>City</u>                                | <u>Station</u> | <u>City</u>         | <u>Station</u> | <u>City</u>         | <u>Station</u> |
|--|----------------|---------------------|----------------|---------------------|----------------|
| <b>PBS Stations for Canadian Customers</b> |                |                     |                |                     |                |
| <b>MAINE</b>                               |                | <b>NORTH DAKOTA</b> |                | <b>OHIO</b>         |                |
| Bangor                                     | WMEB, WMED     | Fargo               | KFME, KGFE     | Cleveland           | WVIZ           |
|  |                |                     |                | Toledo              | WGTE           |
| <b>MICHIGAN</b>                            |                | <b>NEW YORK</b>     |                | <b>PENNSYLVANIA</b> |                |
| Detroit                                    | WTVS           | Buffalo             | WNED           | Erie                | WQLN           |
| Marquette                                  | WNMU           | Plattsburgh         | WCFE           |                     |                |
|  |                | Rochester           | WXXI           | <b>WASHINGTON</b>   |                |
|  |                | Watertown           | WNPE           | Seattle             | KCTS           |
| <b>MINNESOTA</b>                           |                |                     |                | Spokane             | KSPS           |
| Duluth                                     | WDSE           |                     |                |                     |                |

# Cable Box Codes

|                    |   |                          |   |
|--------------------|---|--------------------------|---|
| ABC                | 001, 011, 003, 017,<br>007, 013, 014, 047, 206                | Pulsar                   | 000                                       |
| Antronix           | 207   | PVP Stereo Visual Matrix | 003                                       |
| Archer             | 022, 039, 153, 207  | RCA                      | 021                                       |
| BBT                | 267   | Realistic                | 207                                       |
| Cable Star         | 056   | Regal                    | 279, 259, 020, 273                        |
| Cabletenna         | 022   | Regency                  | 002, 003                                  |
| Century            | 153   | Rembrandt                | 070                                       |
| Citizen            | 153   | RK                       | 304, 306                                  |
| Colour Voice       | 025, 031  | Runco                    | 000                                       |
| Comband            | 232, 233  | Samsung                  | 040, 144                                  |
| Comtronics         | 060, 040  | Scientific Atlanta       | 008, 017, 006, 277, 294                   |
| Diamond            | 035   | Signal                   | 015, 040                                  |
| Eagle Comtronics   | 040   | Signature                | 011                                       |
| Eastern            | 002, 274  | SL Marx                  | 040                                       |
| Electricord        | 078   | Spectrovision            | 058                                       |
| Garrard            | 153   | Sprucer                  | 021, 307                                  |
| GC Electronics     | 016, 056  | Standard Components      | 096, 155                                  |
| Gemini             | 057, 070, 015, 242  | Starcom                  | 015, 003, 047, 098, 222                   |
| General Electric   | 232, 233  | Stargate                 | 040, 015                                  |
| General Instrument | 011, 003  | STS                      | 156                                       |
| Hamlin             | 259, 273, 020, 009, 034                                       | Sylvania                 | 001                                       |
| Hitachi            | 011, 154  | Tandy                    | 258                                       |
| Jasco              | 153   | Tatung                   | 097                                       |
| Jerrold            | 014, 011, 012, 003, 015, 024,<br>026, 047, 098, 222, 276, 215 | Teknika                  | 146                                       |
| Macom              | 033   | Telecaption              | 221                                       |
| Magnavox           | 027, 032, 069   | Texscan                  | 001, 096                                  |
| Memorex            | 000   | TFC                      | 310                                       |
| Movie Time         | 078, 156, 203   | Tocom                    | 013, 012, 059                             |
| Northcoast         | 314   | Toshiba                  | 000                                       |
| Nova Vision        | 008, 277  | TV86                     | 063                                       |
| NSC                | 063, 203, 070, 156  | Uniden                   | 225                                       |
| Oak                | 007, 019, 248   | Unika                    | 207, 153, 022                             |
| Panasonic          | 021, 107  | United Artists           | 007                                       |
| Paragon            | 000   | United Cable             | 003                                       |
| Philips            | 060, 030, 025, 027,<br>028, 029, 031, 290                     | Universal                | 077, 078, 191, 022, 039, 056,<br>153, 207 |
| Philips ECG        | 242   | Video Way                | 250                                       |
| Pioneer            | 144, 023, 260   | Viewstar                 | 027, 060, 063, 111, 211, 258,<br>289      |
| Popular Mechanics  | 400   | Zenith                   | 000, 054                                  |

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# VCR Codes

|                  |  |
|------------------|--|
| Action           | 317  |
| Admiral          | 121, 184, 039, 048, 060  |
| Aiko             | 278  |
| Alwa             | 000  |
| Akai             | 041, 106, 053, 049, 061, 156, 242  |
| Akiba            | 072  |
| Akura            | 271  |
| Alba             | 020, 209, 278  |
| Amstrad          | 000  |
| Anitech          | 072  |
| ASA              | 037, 081   |
| Astra            | 249  |
| Asuka            | 037  |
| Audiovox         | 037  |
| Baird            | 104, 107   |
| Basic Line       | 020, 072, 278  |
| Bell+Howell      | 104  |
| Blaupunkt        | 162, 226, 227  |
| Brandt           | 187  |
| Broksonic        | 184, 211, 121  |
| Bush             | 072, 209, 278  |
| Canon            | 035, 167, 102  |
| Capehart         | 020  |
| Carver           | 081  |
| Catron           | 020  |
| CCE              | 072, 278   |
| CGE              | 000  |
| Cimline          | 072  |
| Clatronic        | 020  |
| Condor           | 020  |
| Craig            | 240, 047, 271, 060, 236, 072, 037, 081   |
| Crown            | 072, 278   |
| Curtis Mathis    | 035, 758   |
| Daewoo           | 278, 020, 045, 017, 087  |
| Dansai           | 072  |
| Daytron          | 020  |
| De Graff         | 042, 166   |
| Decca            | 000, 081   |
| Dual             | 041  |
| Dumont           | 000, 081, 104, 105   |
| Dynatech         | 000  |
| Elcotech         | 072  |
| Elin             | 051  |
| Emerson          | 184, 121, 212, 000, 002, 036, 037, 061, 068, 088, 208, 209, 211, 294, 295, 361 |
| ESC              | 278  |
| Ferguson         | 041, 107   |
| Fidelity         | 000  |
| Finlandia        | 081, 104, 110  |
| Finlux           | 000, 042, 081, 104, 105  |
| Firstline        | 037, 043, 045, 072, 209  |
| Fisher           | 046, 047, 054, 066, 104  |
| Frontech         | 020  |
| Funai            | 000  |
| General Electric | 035, 060, 065  |
| GEC              | 081  |
| General          | 052  |

## VCR Codes (cont.)

|                |   |
|----------------|---|
| Go Video       | 232, 279  |
| Goldstar       | 037, 018, 038   |
| Goodmans       | 000, 020, 037, 062, 072, 278  |
| Gradients      | 000   |
| Graetz         | 041, 104  |
| Granada        | 046, 081, 104   |
| Grandin        | 000, 037, 072   |
| Grundig        | 081, 226  |
| Harmon/Kardon  | 038, 075  |
| HCM            | 072   |
| Hinari         | 072, 208  |
| Hitachi        | 042, 235, 105, 000, 041, 065, 145, 166, 292, 032, 033, 034, 040, 067, 022 |
| Hypson         | 072   |
| Imperial       | 000   |
| Interfunk      | 081   |
| ITT            | 041, 046, 104, 106  |
| ITT Nokia      | 268   |
| ITV            | 278   |
| JCL            | 035   |
| Jensen         | 041   |
| JVC            | 041, 067, 008, 206, 207, 384  |
| Kaisui         | 072   |
| Kendo          | 106   |
| Kenwood        | 038, 046, 041, 067, 384   |
| Korpel         | 072   |
| Leyco          | 072   |
| Lloyd          | 000   |
| Loewe          | 037   |
| Loewe Opta     | 081   |
| Logik          | 072, 240  |
| Luxor          | 043, 046, 106   |
| LXI            | 037, 105  |
| M-Electronic   | 000   |
| Magnavox       | 035, 039, 081, 149, 103, 110  |
| Manesth        | 045, 072  |
| Marantz        | 035, 038, 081, 062, 146, 161  |
| Marta          | 037   |
| Matsui         | 036, 208, 209   |
| MEI            | 035   |
| Memorex        | 035, 037, 048, 000, 039, 046, 047, 104, 268, 299                          |
| Memphis        | 072   |
| MGA            | 043, 061  |
| MGN Technology | 240   |
| Minolta        | 105, 042  |
| Mitsubishi     | 043, 061, 242, 067, 075, 081, 173, 214, 181                               |
| MTC            | 000, 240  |
| Multi Tech     | 000, 072  |
| Murphy         | 000   |
| NAD            | 058   |
| NEC            | 038, 040, 041, 050, 067, 082, 088, 208, 209                               |
| Neckermann     | 081   |
| Nikko          | 037   |
| Noblex         | 240   |
| Nokia          | 041, 046, 104, 106, 240   |
| Nordmende      | 041   |
| Oceanic        | 000   |

## VCR Codes (cont.)

|               |  |
|---------------|--|
| Optonica      | 048, 062   |
| Orion         | 036, 088, 121, 208, 209, 184                     |
| Osaki         | 037, 000, 072                                    |
| Otto Versand  | 081  |
| Palladium     | 037  |
| Pallidium     | 072  |
| Panasonic     | 035, 077, 102, 162, 225, 226, 227, 254, 24       |
| Pathe Cinema  | 036  |
| JC Penney     | 042, 035, 037, 240, 038, 040                     |
| Pentax        | 105, 042, 065                                    |
| Perdio        | 000  |
| Philco        | 035, 081   |
| Philips       | 035, 081, 062, 110, 146                          |
| Phonola       | 081  |
| Pilot         | 037  |
| Pioneer       | 058, 067, 081, 168                               |
| Portland      | 020  |
| Pioneer       | 058, 067, 081, 168                               |
| Portland      | 020  |
| Proline       | 000  |
| Proscan       | 060  |
| Pulsar        | 039  |
| Pulser        | 051  |
| Pye           | 081  |
| Quartz        | 046, 155   |
| Quasar        | 035, 077, 096, 162, 226                          |
| Quelle        | 081  |
| Radiola       | 081  |
| RCA           | 060, 065, 035, 042, 077, 105, 149, 202, 277      |
| Realistic     | 037, 240, 048, 000, 035, 046, 047, 062, 066, 104 |
| Flex          | 041  |
| Ricoh         | 034, 253   |
| Roadstar      | 037, 072, 240, 278                               |
| Runco         | 039  |
| Saba          | 041, 206, 207                                    |
| Saisho        | 036, 088, 145, 208, 209                          |
| Salora        | 043, 046, 106                                    |
| Samsung       | 240, 045, 053, 051                               |
| Sansui        | 067, 041, 271, 082, 209                          |
| Sanyo         | 046, 047, 104, 240, 268                          |
| SBR           | 081, 146   |
| Schaub Lorenz | 000, 041   |
| Schneider     | 000, 072, 081, 110                               |
| Scott         | 045, 121, 184, 210, 212                          |
| Sears         | 047, 046, 054, 035, 037, 042, 057, 066, 104, 105 |
| SEC           | 240  |
| SEI           | 081  |
| Seleco        | 041  |
| Sentra        | 020  |
| Sharp         | 048, 062, 021                                    |
| Shintom       | 072, 067   |
| Siemens       | 037, 104   |
| Silva         | 037  |
| Sinudyne      | 081  |
| Solovox       | 020  |
| Sontec        | 037  |

## VCR Codes (cont.)

|                 |  |
|-----------------|--|
| Sony            | 033, 034, 032, 011, 035, 253, 275                |
| STS             | 042  |
| Sunpack         | 253  |
| Sunstar         | 000  |
| Sylvania        | 000, 035, 043, 081, 103, 110                     |
| Symphonic       | 000  |
| Tandy           | 000, 104   |
| Tashiko         | 000  |
| Tatung          | 000, 041, 081                                    |
| Teac            | 000, 041   |
| Technics        | 035, 162, 246                                    |
| Teknika         | 037, 035, 000, 052                               |
| Telefunken      | 041, 187   |
| Tenosai         | 072  |
| Tensai          | 000  |
| Thomson         | 041  |
| Thorn           | 041  |
| TMK             | 036  |
| Toshiba         | 045, 043, 066, 041, 056, 057, 210, 212, 033      |
| Totevision      | 240, 037   |
| Triumph         | 208  |
| Unitech         | 240  |
| Universum       | 000, 037, 049, 081, 106                          |
| Vector Research | 038, 040   |
| Victor          | 008, 067   |
| Video Concepts  | 040, 061, 221                                    |
| Videosonic      | 240  |
| Wards           | 048, 035, 072, 042, 062, 212, 149, 047, 000, 240 |
| XR 1000         | 072  |
| Yamaha          | 038, 041   |
| Yamishi         | 072  |
| Yokan           | 072  |
| Yoko            | 020, 240   |
| Zenith          | 039, 034, 033, 000                               |



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