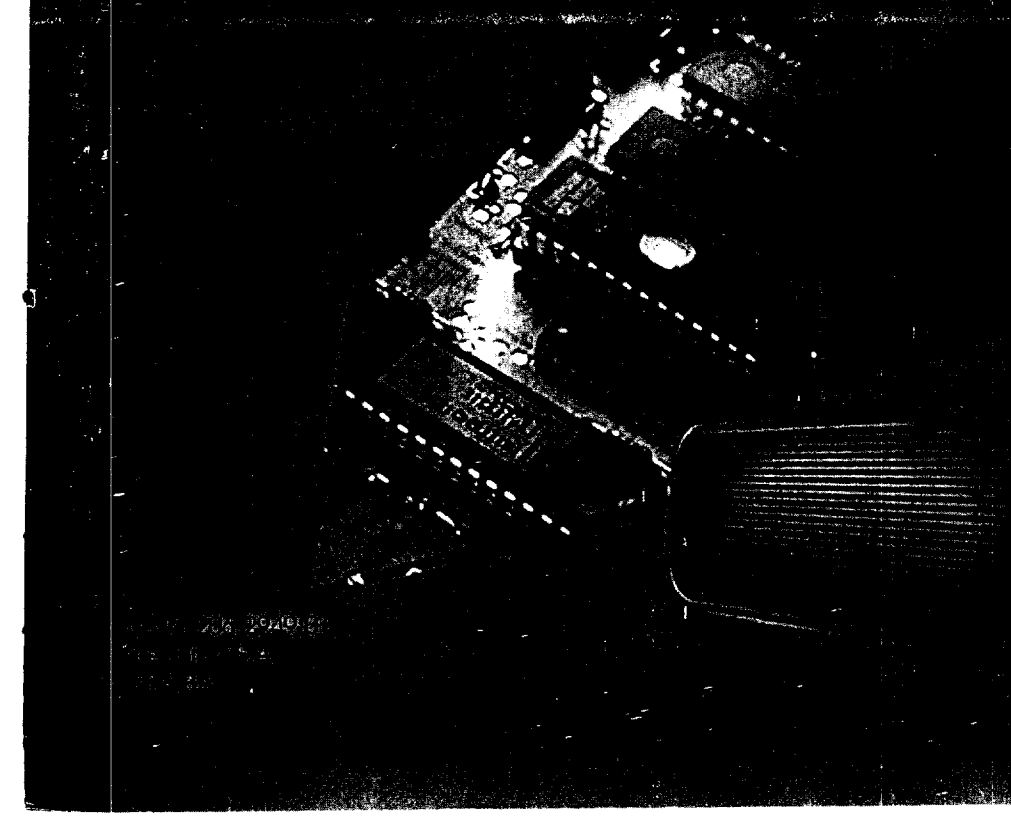
Operating Guide & Warranty

Direct View Color TV
MTS Stereo Audio
Picture-In-Picture
Surround Sound

extreme entertainment for your head

SRX2793 IQ2793
SRX3253 IQ3253
SRX3293 IQ3293
SRX3553 IQ3553
SRX3593 IQ3593

Return the Product Registration Card, and your TV could be *free!*



WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Tips

Refer to the "Safety Tips" booklet that came with your product for important safety considerations.

Note to Cable TV System Installer

This reminder is provided to call the cable TV 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 the cable entry as practical.

Power-Cord Polarization

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

CAUTION

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION

Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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INTQWRN

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How to use this operating guide

Standard TV installation and operation is given in this portion of the operating guide. Follow the procedures given if you will not be using StarSight® .

Refer to the StarSight® portion of this operating guide for StarSight® activation and operation.

INTRODUCTION

WELCOME

Welcome into the family of INTEQ Color Television owners. This guide provides instructions on how to operate your new TV. It is supplemented by a booklet containing Safety Tips. We urge you to read these publications carefully so that you will receive full enjoyment from your new INTEQ TV for many years to come.

Your new TV has been designed and built to give you the very best in quality, features and performance. There are thousands of INTEQ authorized service centers throughout the U.S., Canada and Mexico who can attend promptly and effectively to ordinary service needs.

If you should have an unusual performance or service problem that cannot be satisfactorily resolved by your INTEQ dealer or INTEQ authorized service center, contact us at:

INTEQ
Customer Service Department
1000 Milwaukee Avenue
Glenview, IL 60025-2493
Telephone: (708) 391-8752
Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time

Send the model number, serial number, and date of purchase or original installation, with a full explanation of the problem and the service history. We will welcome the opportunity to look into your specific question or problem and to be of assistance in resolving it promptly.

The model and serial numbers of your new TV are located on the back of the TV cabinet. For your future convenience and protection, we suggest that you record these numbers here:

Model No. _____

Serial No. _____

DOLBY SURROUND
PRO • LOGIC

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

INSTALLATION CONSIDERATIONS

Before you install your TV...

Ventilation — Proper ventilation keeps your TV running cool. Air circulates through perforations in the back and bottom of the cabinet. Do not block these vents or you will shorten the life of your TV.

Power Source — Your TV is designed to operate on normal household current, 120 volt 60 Hertz AC. Do not attempt to operate it on DC current.

Power Cord — Your power cord has a polarized plug as required by Underwriters' Laboratories. It has one regular blade and one wide blade and fits only one way into a standard electrical outlet. If the blades will not enter either way, your outlet is very old and non-standard. A new outlet should be installed by a qualified electrician.

Safe Operation — Your TV is manufactured and tested with your safety in mind. However, unusual stress caused by dropping or mishandling, exposure to flood, fire, rain or moisture, or accidental spilling of liquids into the TV, can result in potential electrical shock or fire hazards. If this happens, have your TV checked by a service technician before using it again.

PLEASE READ AND OBSERVE EACH SAFETY POINT IN THE "SAFETY TIPS" FOLDER WHEN INSTALLING AND USING YOUR TV.

VIDEO GAMES AND OTHER FIXED PATTERN DISPLAY CAUTION — If you use your TV for video games, teletext or other fixed displays, avoid setting the BRIGHTNESS control for an excessively bright picture. **A bright, fixed pattern, if used for long periods of time, can result in a permanent imprint on the TV picture tube.** You can reduce this possibility by alternating the use of the fixed pattern display with normal TV picture viewing, by turning down the CONTRAST control for sustained fixed pattern use, and by turning off the fixed pattern display when not in use.

PLUGGING IN YOUR TV — Be sure to plug your TV into an "unswitched" AC power source. The "switched" AC outlets found on some video equipment will not continue supplying power to the TV once the equipment is turned off. If the power to the TV is interrupted, you will have to reset the clock in the TV to the current time.

METHODS OF OPERATION

Your new INTEQ TV is a very sophisticated appliance. Optional features, video picture adjustments and audio sound adjustments are performed through on-screen menus and displays. Self explanatory ICONS are used throughout. Most features can be selected and adjusted from the comfort of your favorite chair by using either of the infrared remote controls.

Either of two remote controls can be used to operate the TV. Use the multi-brand programmable remote if you have different brands and types of equipment in your video system which you need to control remotely. Use the Z-Trak programmable remote if you feel comfortable using track-ball access similar to that provided by the familiar computer mouse device. Many features can be selected and adjusted by using the control panel provided on the TV.

StarSight provides an electronic programming guide which is updated with new scheduling information automatically on a periodic basis. StarSight allows you to rapidly scan through the programming guide to find a program for viewing or recording. Programs can be searched and selected by category if desired.

Method of Operation	Standard TV	StarSight
❑ Control Panel on TV.	YES	NO
❑ Universal Remote Control	YES	YES
❑ Z-Trak Remote Control	YES	YES

FEATURES PROVIDED WITH YOUR TV

This operating guide describes a "family" of TV models. Not all models have all of the features described in this guide. In addition, different control panels may be used from model to model. Most models include the following features:

MODEL / FEATURE	SRX2793, IQ2793	SRX3293, SRX3593 IQ3293, IQ3593	SRX3253, SRX3553 IQ3253, IQ3553
❑ StarSight Electronic Program Guide	Y	Y	Y
❑ StarSight Demonstration	Y	Y	Y
❑ On-Screen Menus Accessed By Remote or TV Controls	Y	Y	Y
❑ Universal Programmable Remote Control	Y	Y	Y
❑ Z-Trak Programmable Remote Control	Y	Y	Y
❑ Picture-In-Picture	Y	Y	Y
❑ 181 Channel Tuning	Y	Y	Y
❑ Automatic Channel Programming	Y	Y	Y
❑ Favorite Channel Add/Delete	Y	Y	Y
❑ Channel Labels (ABC, TNT, etc.) for Easy Channel Identification	Y	Y	Y
❑ Multiple Input Sources	Y	Y	Y
❑ Source Identification (VCR, Cable, etc.)	Y	Y	Y
❑ Antenna/Cable and Loop Out Jacks	Y	Y	Y
❑ Audio/Video (A/V) Jacks	Y	Y	Y
❑ Super-VHS A/V Input Jacks	Y	Y	Y
❑ Front Mounted A/V Jacks	N	SRX3593 only	Y
❑ Surround Sound System	Dolby	Dolby Pro Logic	Dolby Pro Logic, Premium
❑ MTS Stereo with SEQ (Spatial Equalization)	Y	No SEQ	No SEQ
❑ Surround Sound Speaker Terminals	Y	Y	Y
❑ Variable Audio Output Jacks	Y	Y	Y
❑ Surround Sound Speakers	Optional	Optional	Optional
❑ Sleep Timer and On/Off Timer	Y	Y	Y
❑ Closed Caption and Text Modes	Y	Y	Y
❑ Parental Control	Y	Y	Y

STANDARD CONNECTIONS FOR YOUR TV

CONNECTION CENTER

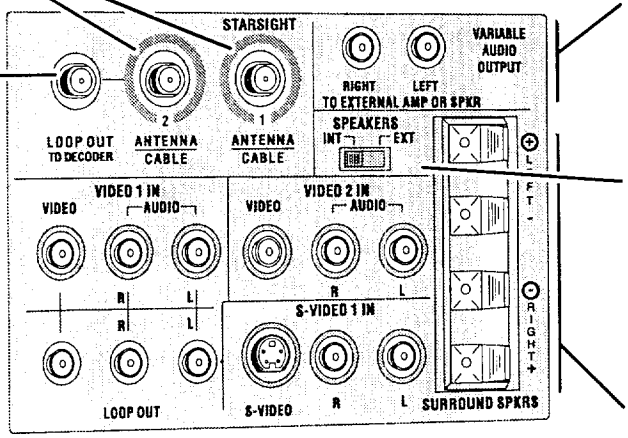
Locate the Connection Center on the back of the TV.

ANTENNA/CABLE 1 or 2
75-ohm antenna or cable-TV connection to your TV. Attach your antenna, cable-TV line or VCR to these jacks.

ANTENNA/CABLE 2 LOOP OUT TO DECODER
Routes the cable-TV input to Antenna/Cable 2 back to the cable box supplied by the cable service.

VIDEO 1 or 2 IN
Jacks for audio and video input from a stereo VCR or other A/V component. (You must connect to these jacks in order to hear stereo sound when playing a stereo tape.)

VIDEO 1 LOOP OUT
Use these to send the incoming audio and video (from Video 1 In) to another component, such as a second VCR.



STARSIGHT CONTROL PORT
Jack for connection of Star-Sight Remote Emitter cable.

VARIABLE AUDIO OUTPUT
Standard phono jack connectors for output to an optional stereo amplifier or to external speakers.

For Dolby Pro Logic TVs, do not connect speakers directly to these jacks.

SPEAKER EXT/INT
Select EXT (external) to remove sound from the TV's speakers.

Select INT (internal) to hear sound from the TV's speakers.

Note that this switch does not appear on TVs having the Dolby Pro Logic audio system.

SURROUND SPEAKER TERMINALS
Connections for output to optional surround sound speakers.

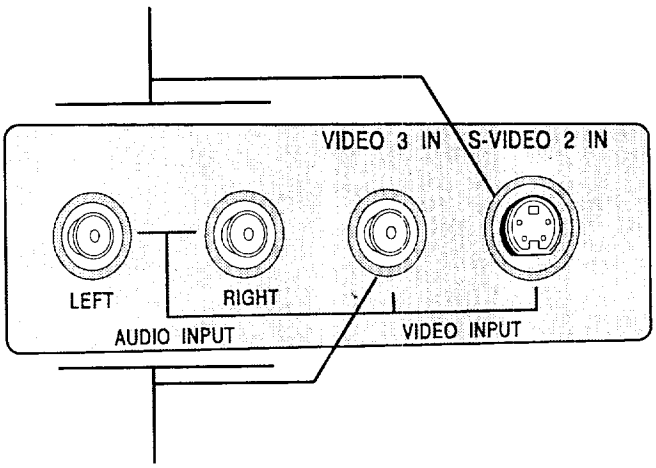
S-VIDEO 1 IN
Jacks for audio and video input from a Super-VHS VCR.

TURN OFF POWER OR UNPLUG TV BEFORE MAKING ANY CONNECTIONS.

ADDITIONAL A/V JACKS *(Some Models)*

If your TV model is equipped with the additional A/V input jacks, they are located behind a small door below the control panel on the front of the TV.

S-VIDEO 2 IN
Jacks for audio and video input from a second Super-VHS VCR.



VIDEO 3 IN
Jacks for audio and video input from a third stereo VCR or other A/V component.

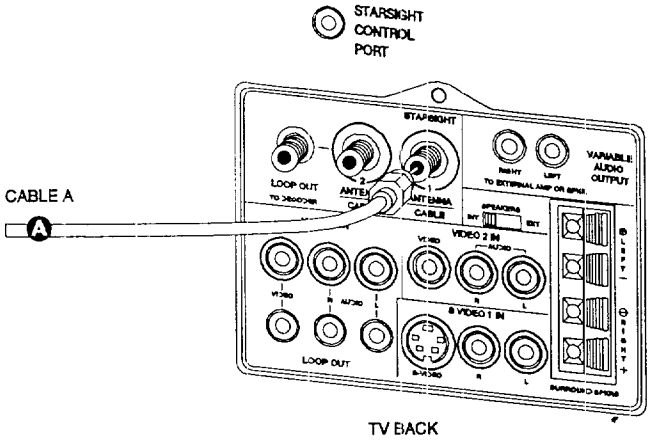
STANDARD CONNECTIONS FOR YOUR TV

SETUP 1: TV ONLY

If you receive your television signal by antenna or basic cable-TV (no cable box), connect your television as shown here.

TURN OFF POWER OR UNPLUG TV BEFORE MAKING ANY CONNECTIONS TO YOUR TV.

1. Attach the cable coming out of the wall jack Ⓐ to the "ANT/CABLE 1" jack on the back of your TV.
2. Plug your TV into a power outlet that is not controlled by a light switch.
3. If you want to activate StarSight, proceed to "Step 2. Activate StarSight" in the StarSight section of the operating guide.



Antenna or Basic Cable-TV Connection

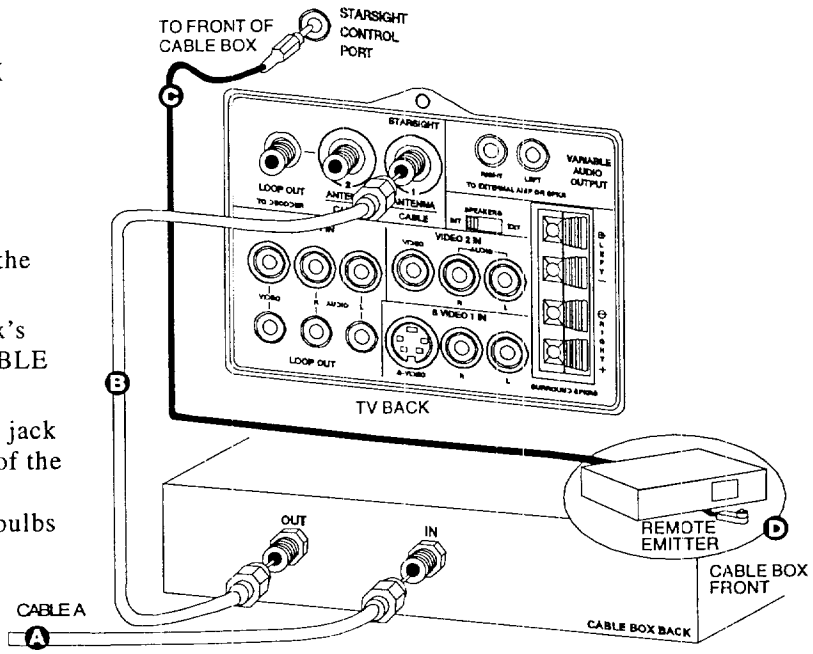
SETUP 2: TV AND CABLE BOX

If you receive your television signal from a cable box, connect your television as shown in the illustration.

DO NOT UNPLUG YOUR CABLE BOX AT ANY TIME!

DO NOT PLUG YOUR TV INTO THE BACK OF YOUR CABLE BOX!

1. Turn off, but do not unplug, your Cable Box.
2. Attach the cable coming out of the wall Ⓐ to the Cable Box's "Input" or "Cable In" jack.
3. Attach an RF cable Ⓑ between your Cable Box's "Output" or "TV Set" jack, and the "ANT/CABLE 1" jack on the back of your TV.
4. Take the Remote Emitter cable Ⓒ and plug the jack into the "StarSight Control Port" on the back of the TV. Route the Remote Emitter cable under the Cable Box and place either one of the plastic bulbs about two inches in front of the Cable Box's front panel, as shown in the illustration. Make sure that the plastic bulb is facing the front panel Ⓓ. **Do not adhere the Remote Emitter until after you have completed activating StarSight and you have confirmed the correct code that operates your Cable Box.** Once the code is confirmed, peel off the backing of the sticker on the Remote Emitter and adhere it in place.



Cable Box Connection

NOTE:
The Remote Emitter is only necessary if you are planning to activate StarSight and want StarSight to control the channel tuning of your cable box.

5. Plug your TV into a power outlet that is not controlled by a light switch.
6. If you want to activate StarSight, proceed to "Step 1. Fill out the StarSight Checklist" in the StarSight section of the operating guide.

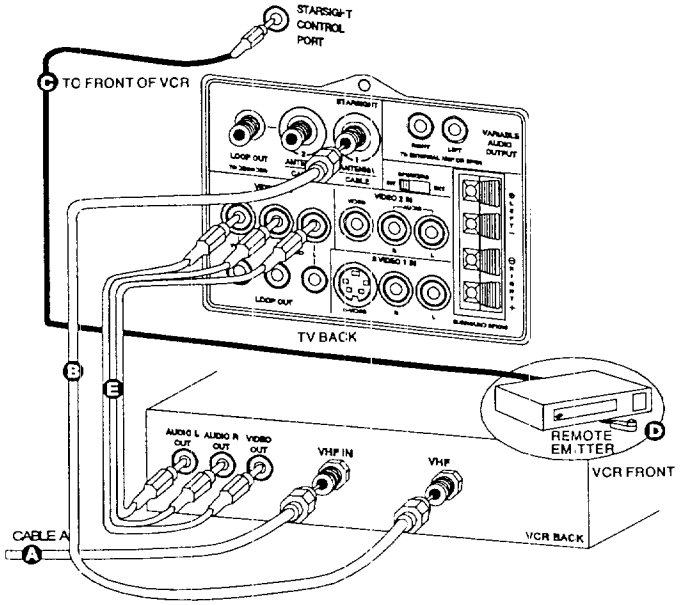
SETUP 3: TV AND VCR

If you receive your television signal through your VCR, connect your television as shown here.

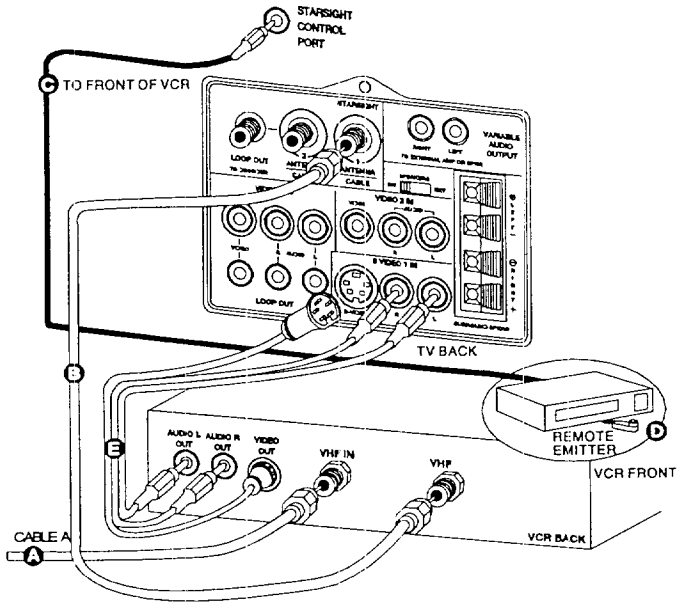
1. Attach the cable coming out of the wall Ⓐ to the "VHF In" (From Antenna) jack of your VCR.
2. Attach an RF cable Ⓑ between your VCR's "VHF Out" (To TV) jack, and the "ANT/CABLE 1" jack on the back of your TV.
3. Take the Remote Emitter cable Ⓒ and plug the jack into the "StarSight Control Port" on the back of the TV. Route the Remote Emitter cable under the VCR and place either one of the plastic bulbs about two inches in front of the VCR's front panel, as shown in the illustration. Make sure that the plastic bulb is facing the front panel Ⓓ. **Do not adhere the Remote Emitter until after you have completed activating StarSight and you have confirmed the correct code that operates your VCR.** Once the code is confirmed, peel off the backing of the sticker on the Remote Emitter and adhere it in place.

NOTE:
The Remote Emitter is only necessary if you are planning to activate StarSight and want StarSight to control the record functions of your VCR.

4. Locate the area of the TV's jack panel that is labeled "Video 1 In" (or "S-Video 1 In"). Attach the three Audio/Video (A/V) cables Ⓔ to the "Video," "Audio R" and "Audio L" jacks and attach the other ends of the cables to the corresponding "Video Out," "Audio R Out" and "Audio L Out" jacks on the back of your VCR. Connecting these A/V cables is necessary if ...
   - ❑ You have a VCR without a front panel channel indicator that uses an on-screen display.
   - ❑ You have a stereo VCR and would like to take advantage of the stereo feature.
   - ❑ You would like to take advantage of the TV's PIP feature.
5. Plug your TV into a power outlet that is not controlled by a light switch.
6. If you want to activate StarSight, proceed to "Step 1. Fill out the StarSight Checklist" in the StarSight section of the operating guide.



Standard VHS VCR Connection



Super-VHS VCR Connection

STANDARD CONNECTIONS FOR YOUR TV

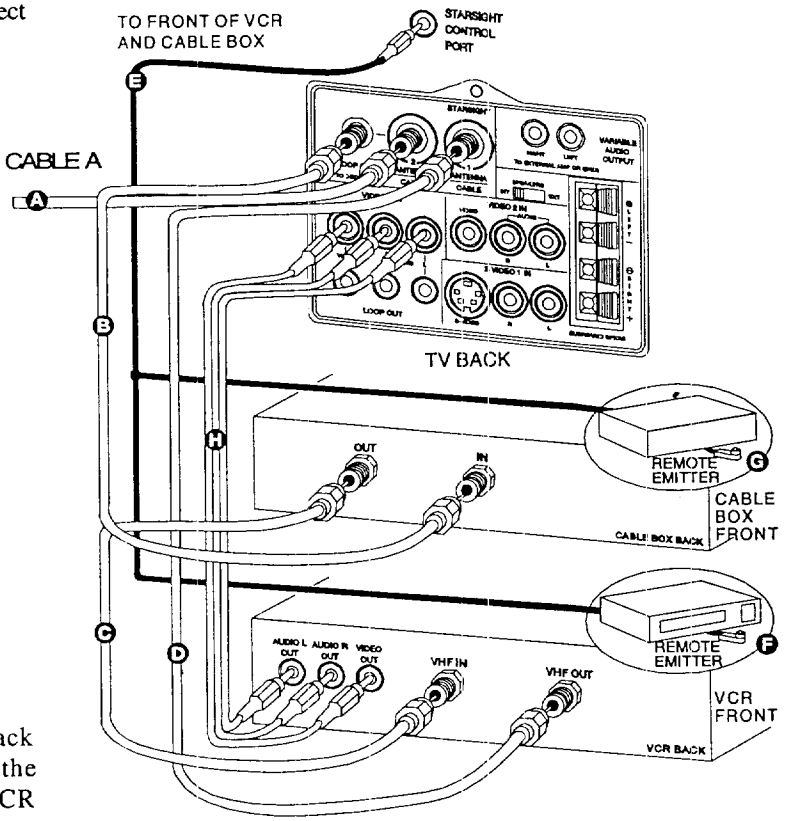
SETUP 4: TV WITH VCR AND CABLE BOX

If you receive your television signal through your VCR, connect your television as shown here.

DO NOT UNPLUG YOUR CABLE BOX AT ANY TIME!
DO NOT PLUG YOUR TV INTO THE BACK OF YOUR CABLE BOX!

1. Turn off, but do not unplug, your Cable Box.
2. Attach the cable coming out of the wall Ⓐ to the "ANT/CABLE 2" jack on the back of your TV.
3. Attach an RF cable Ⓑ between your TV's "LOOP OUT TO DECODER" jack, and the Cable Box's "Input" or "Cable In" jack.
4. Attach an RF cable Ⓒ between your Cable Box's "Output" or "TV Set" jack, and the VCR's "VHF In" (From Antenna) jack of your VCR.
5. Attach an RF cable Ⓓ between your VCR's "VHF Out" (To TV) jack, and the "ANT/ CABLE 1" jack on the back of your TV.
6. Take the Remote Emitter cable Ⓔ and plug the jack into the "StarSight Control Port" on the back of the TV. Route one Remote Emitter wire under the VCR and place its plastic bulb about two inches in front of the VCR's front panel Ⓕ, as shown in the illustration. Make sure that the plastic bulb is facing the front panel. Do the same for the Cable Box Ⓖ. **Do not adhere the Remote Emitters until after you have completed activating StarSight and you have confirmed the correct codes that operate your equipment.** Once the codes are confirmed, peel off the backing of the sticker on the Emitters and adhere it in place.

NOTE:
The Remote Emitter is only necessary if you are planning to activate StarSight and want StarSight to control the record functions of your VCR and the channel tuning of your cable box.



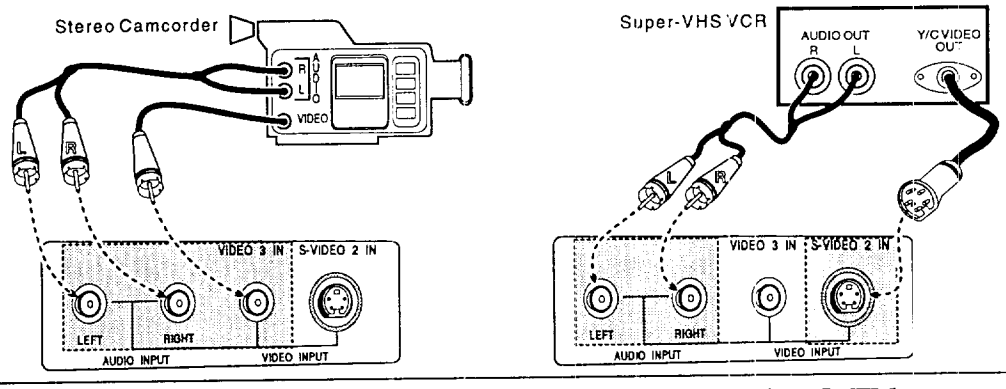
Cable Box and VCR Connection

7. Locate the area of the TV's jack panel that is labeled "Video 1 In." Attach the three Audio/Video (A/V) cables Ⓗ to the "Video," "Audio R" and "Audio L" jacks and attach the other ends of the cables to the corresponding "Video Out," "Audio R Out" and "Audio L Out" jacks on the back of your VCR. Connecting these A/V cables is necessary if ...
   - ❑ You have a VCR without a front panel channel indicator that uses an on-screen display.
   - ❑ You have a stereo VCR and would like to take advantage of the stereo feature.
   - ❑ You would like to take advantage of the TV's PIP feature.
8. Plug your TV into a power outlet that is not controlled by a light switch.
9. If you want to activate StarSight, proceed to "Step 1. Fill out the StarSight Checklist" in the StarSight section of the operating guide.

STANDARD CONNECTIONS FOR YOUR TV

AUDIO/VIDEO (A/V) CONNECTIONS FOR OPTIONAL VIDEO EQUIPMENT

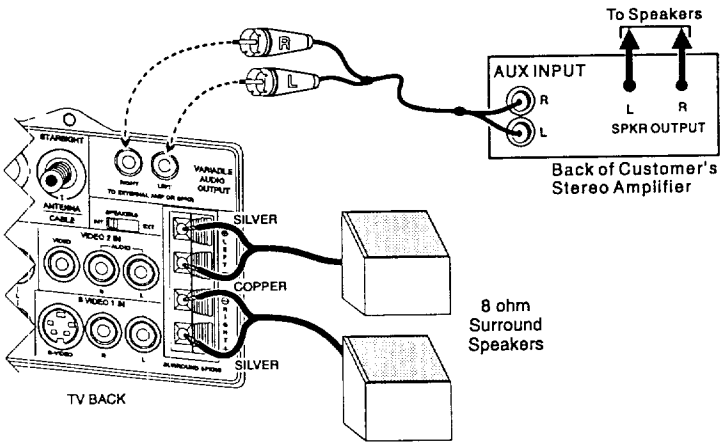
Connections to VIDEO 3 IN or S-VIDEO 2 IN jacks. (Some TV models only.)



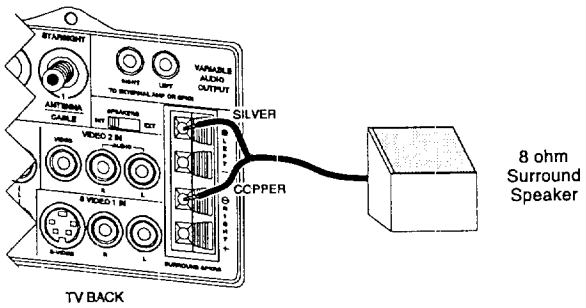
OPTIONAL AUDIO AMPLIFIER/SURROUND SOUND CONNECTIONS TO TV

If you wish to listen to the TV audio through an external amplifier or stereo system, or listen to surround sound audio, make the connections to the TV shown in the illustration below.

TURN OFF POWER OR UNPLUG TV BEFORE MAKING ANY CONNECTIONS TO YOUR TV.



Amplifier and Dual Surround Speaker Connections



Single Surround Speaker Connection

DIFFERENT WAYS TO LISTEN TO YOUR TV		
TV Speakers On (Some Models Only)	**TV Speakers Off (Some Models Only)**	**Surround Sound**
❑ SPEAKER EXT/INT switch in the **INT** (internal) position — TV speakers are ON. Sound is heard from both the TV's speakers and the external amplifier's speakers. ❑ **Use TV's volume control** to raise and lower the level of sound being heard from both sets of speakers.	❑ SPEAKER EXT/INT switch in the **EXT** (external) position — TV speakers are OFF. Sound is only heard from the speakers connected to the external amplifier. ❑ **Use TV's volume control** to raise and lower the level of sound being heard from the amplifier's speakers.	❑ Connect surround sound speakers as shown. The level of surround sound will vary, depending on the program being viewed. Note that not all programs have surround sound audio. ❑ The SURROUND SPKR terminals are always active. The SPEAKERS EXT/INT switch **does not** affect the operation of surround sound speakers. ❑ If you want to connect only **one** surround speaker to your TV, connect the speaker wires to the terminals adjacent to the positive (+) and negative (–) symbols that are circled.

THE FIRST TIME YOU OPERATE YOUR TV

TYPICAL CONTROL PANEL

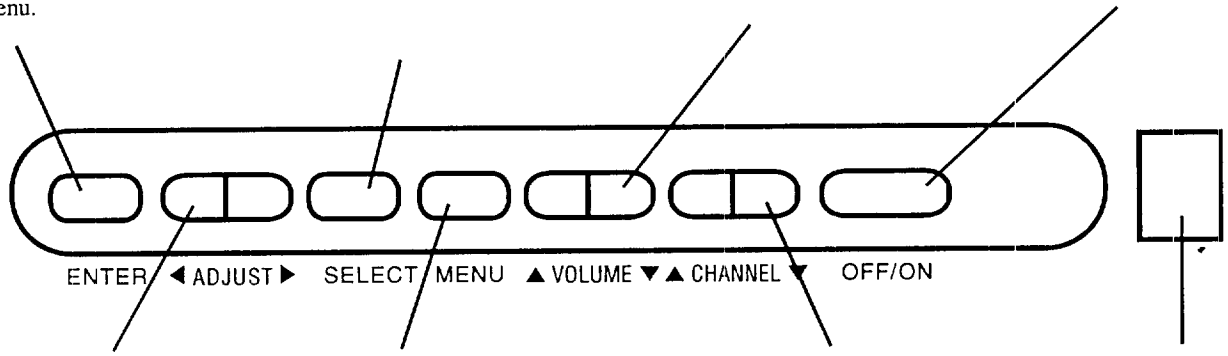
The control panel on your TV may differ from the one shown but its operation is the same.

ENTER (ENT)
Press to see the Channel/Time display, or to remove any on-screen display or menu.

SELECT (SEL)
Press during on-screen menu operations to select a menu option.

VOLUME (VOL) Up/Down
Press to increase or decrease the sound level.

OFF-ON
Press to turn TV power ON or OFF.



ADJUST (ADJ) Left/Right
Press during on-screen menu operation to see information/status display for selected option. Press again to adjust the selected menu option.

MENU
Press once to see a menu. Press repeatedly to sequence through the available menus.

CHANNEL (CH) Up/Down
Press to select channels higher or lower than the current channel. To add or delete channels stored in the scanning sequence, see CH. ADD/DEL option.

Remote Window
Point the remote control towards this window to operate the TV.

STEP 1. INSTALL THE BATTERIES INTO THE REMOTE CONTROL

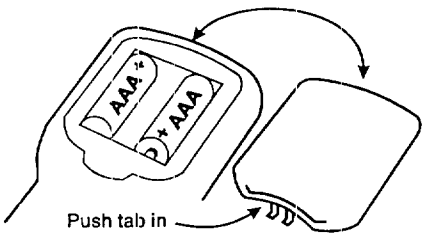
Batteries are provided but they must be installed before using the remote controls. When a remote no longer functions normally, or when it loses memory, replace the batteries with high-quality, alkaline batteries. Match plus with plus (+ with +), minus with minus (- with -), as shown in the battery compartment.

Unless your equipment responds to the factory preset codes, you will need to reprogram the remote controls with the codes of your particular equipment each time you replace batteries.

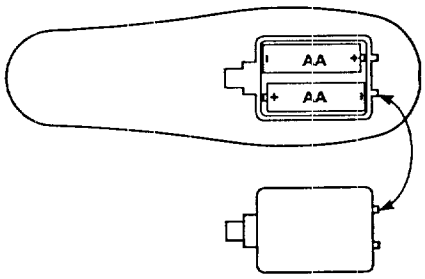
NOTES:

- Do not to place heavy objects on top of the remote control keys. Prolonged unintentional operation of the remote shortens battery life.
- Remove the batteries if the remote control will not be used for a month or more. **THE MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY BATTERY LEAKAGE.**

Universal Remote
(Uses 2 size AAA batteries.)

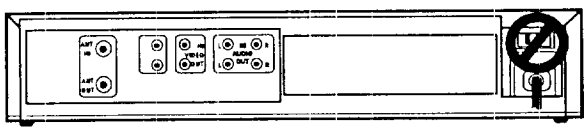


Z-Trak Remote
(Uses 2 size AA batteries.)



STEP 2. CONNECT THE POWER

1. Plug your TV into an unswitched AC power source.
2. Turn the TV on by pressing OFF-ON.



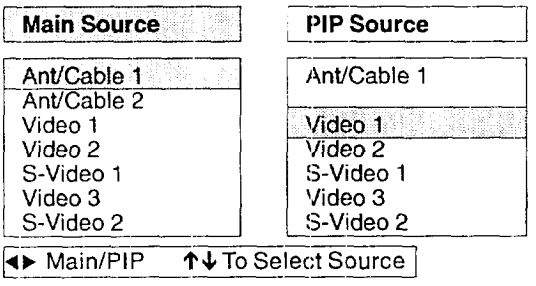
Do not plug TV into switched outlet on a VCR or cable-TV decoder

THE FIRST TIME YOU OPERATE YOUR TV

STEP 3. SELECT YOUR MAIN SOURCE & PIP SOURCE

A TV source refers to the equipment connected to the TV that supplies the picture and sound to your TV. You select the viewing source by using the **Source Menu**.

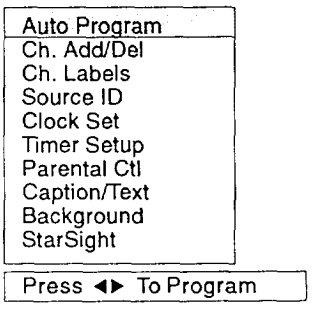
Main Source	PIP Source
❑ Press SOURCE on your remote to view the **Source Menu**. ❑ Press SOURCE repeatedly to select the source which corresponds to the jack on the TV connection panel that is receiving the input signal. ❑ Press QUIT to remove the menu.	❑ Press SOURCE on your remote to view the **Source Menu**. ❑ Press the Left or Right key to select **PIP Source** column. ❑ Press SOURCE repeatedly to select the source which corresponds to the jack that is receiving the PIP input signal. ❑ Press QUIT to remove the menu.



Source Menu with Main Source set to Ant/Cable 1 and PIP Source set to Video 1. Connections must made to the corresponding jacks on the connection panel.

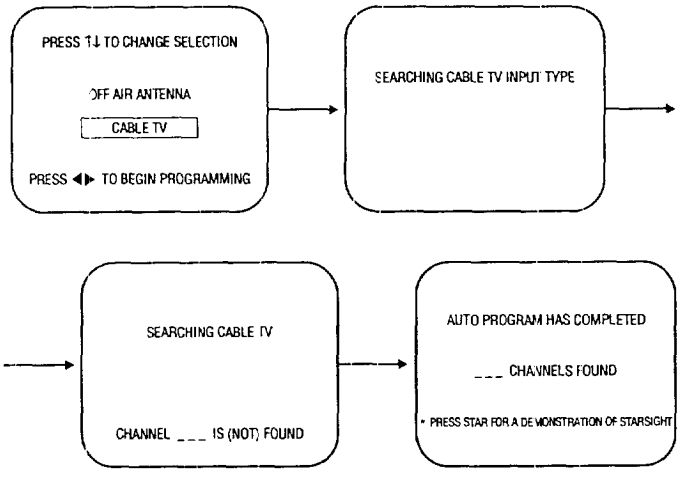
STEP 4. USE AUTO PROGRAM

Auto Program finds all available channels on the currently selected source and stores them in the memory of the TV. **To start the Auto Program procedure, press the Left or Right arrow key. Follow the instructions on the TV.**



Setup Menu with Auto Program Highlighted

1. Press ↑↓ to select either OFF AIR ANTENNA or CABLE TV.
2. Press ← → to begin channel search.
3. Wait a few seconds for the TV screen to clear.



* Message appears only if TV has not been authorized for StarSight.

STEP 5. SET THE CLOCK

Set The Clock
❑ Press MENU on your remote until the SETUP icon is selected and the Setup Menu is displayed. ❑ Press the Up or Down arrow key to select **Clock Set**. ❑ Use the numbered buttons on the universal remote control to enter the correct time or press the Left or Right arrow keys to advance the clock. ❑ Press TIMER to select AM or PM. ❑ Press QUIT to remove the menu.

STEP 6. USE OTHER OPTIONS

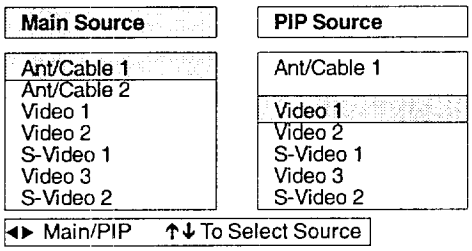
You may want to consider using the following options:

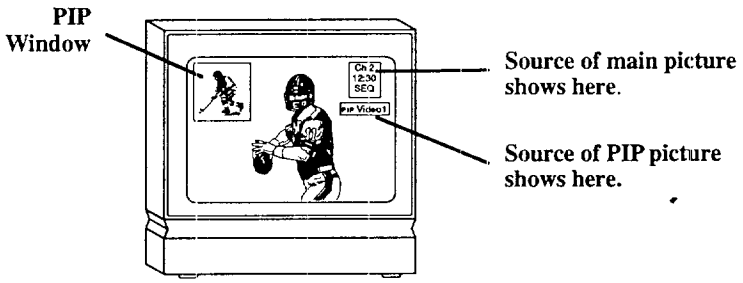
- ❑ Delete undesirable channels or add additional channels: Refer to the **Ch. (Channel) Add/Del** option for details.
- ❑ Apply "labels" to your available channels: Refer to the **Ch. (Channel) Labels** option for details.
- ❑ Label the input sources with descriptive names, such as "VCR." Refer to the **Source ID** option for details.
- ❑ Adjust options in the **Audio** and **Video Menus**.

PIP OPERATION

INTRODUCTION

Your TV must be connected to two separate sources in order to view a different picture in the PIP window from that which is showing in the main picture area of the TV. One source (such as an antenna) must be connected to the ANT/ CABLE 1 or 2 jack. The other source (such as a VCR) must be connected to one set of the Video or Super Video jacks. If you have not already selected the input sources for your main TV picture and the PIP window, refer to the instructions below. Make sure you select those sources that correspond to the jacks on the TV connection panel that are receiving the input signals.





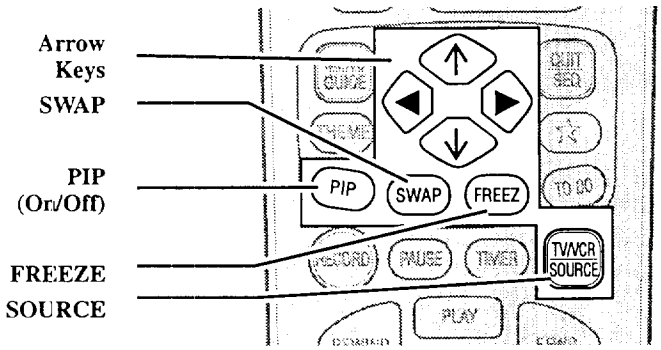
SELECTING MAIN PICTURE AND PIP WINDOW SOURCES

SELECT MAIN SOURCE		SELECT PIP SOURCE *	
Universal Remote	**Z-Trak Remote**	**Universal Remote**	**Z-Trak Remote**
❑ Make sure remote is in TV mode.	❑ Make sure remote is in TV mode.	❑ Make sure remote is in TV mode.	❑ Make sure remote is in TV mode.
❑ Press SOURCE on your remote to view the **Source Menu**.	❑ Point and press on the SOURCE icon (at the top of the screen).	❑ Press SOURCE on your remote to view the **Source Menu**.	❑ Point and press on the SOURCE icon (at the top of the screen).
❑ Press SOURCE repeatedly to select the source which corresponds to the jack on the TV connection panel that is receiving the input signal.	❑ Point and press on the **Main Source** which corresponds to the jack on the TV connection panel that is receiving the input signal.	❑ Press the Left or Right key to select **PIP Source** column. ❑ Press SOURCE repeatedly to select the source which corresponds to the jack that is receiving the PIP input signal.	❑ Point and press on the **PIP Source** which corresponds to the jack on the TV connection panel that is receiving the input signal.
❑ Press QUIT to remove the menu.	❑ Move the pointer off the menu and press the Trackball to remove the menu.	❑ Press QUIT to remove the menu.	❑ Move the pointer off the menu and press the Trackball to remove the menu.

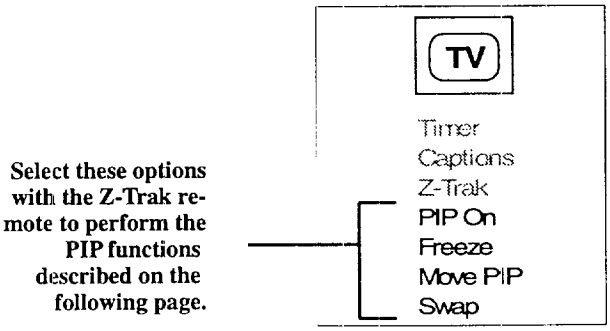
* A PIP window appears while the Source icon is selected to show the effect of choosing a PIP source.

PICTURE-IN-PICTURE FUNCTIONS

While using the various PIP functions, refer to the illustration below and the instructions on the following pages. Note that the operation of these functions differ, depending on which remote control you are using.



PIP Functions, Universal Remote Control



Select these options with the Z-Trak remote to perform the PIP functions described on the following page.

PIP Functions, Z-Trak Remote Control

continued on next page

PIP OPERATION

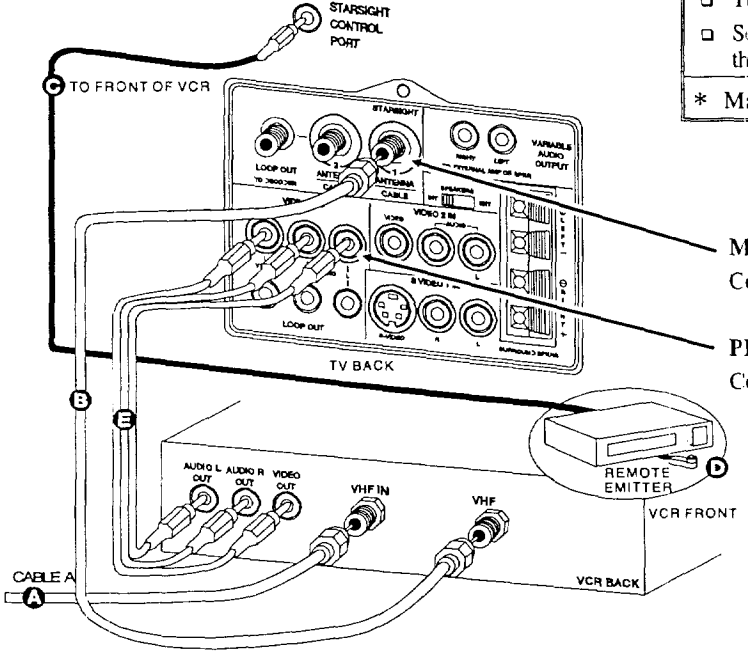
PIP Functions using Universal Remote	PIP Functions using Z-Trak Remote
❑ **PIP On/Off:** Press the PIP key to display the PIP window. Press it again to remove the PIP window. ❑ **SWAP:** Press the SWAP key to swap the main picture with the PIP window. Press SWAP again to return to the original display. ❑ **FREEZE:** Press FREEZ to freeze motion of the picture shown in the PIP window. Press FREEZ again to return to a live PIP window. ❑ **PIP Size:** Select PIP Size in the **PIP Menu** to choose between seeing a small or large PIP window. ❑ **Moving the PIP window:** Use the Left/Right and Up/Down arrow keys to move the PIP window to the desired location of the TV screen.	❑ **PIP On/Off:** Move pointer to left of TV screen and press on **PIP On** to display the PIP window. Move the PIP window to the desired location on the screen and press the trackball to set it in place. Press on **PIP Off** to remove the PIP window. ❑ **SWAP:** Move pointer to left of TV screen and press on Swap to swap the main picture with the PIP window. Press on **Swap** again to return to the original display. ❑ **FREEZE:** Move pointer to left of TV screen and press on **Freeze** to freeze motion of the picture shown in the PIP window. Press on **Freeze** again to return to a live PIP window. ❑ **PIP Size:** Select PIP Size in the **PIP Menu** to choose between seeing a small or large PIP window. ❑ **Moving the PIP Window:** Move pointer to left of TV screen, press on **Move PIP** and move the PIP window to desired location on the screen. Press the trackball to set the window in place.

OPERATION WITH ANTENNA OR DIRECT CABLE

This illustration shows the basic connection of your TV to a VCR. With your equipment setup in this manner, your television has the following PIP capabilities:

- ❑ Simultaneously view a video tape playing in the VCR and a channel selected by the TV's tuner.
- ❑ Simultaneously view two different channels; one selected by the TV's tuner and another using the VCR's tuner.
- ❑ Swap the main picture and the PIP window.

PIP VIEWING OPTIONS	
Viewing Two Different Channels	**Viewing a Video Tape and a TV Channel**
❑ Set VCR's TV/VCR* switch to TV.	❑ Set VCR's TV/VCR* switch to TV.
❑ Select Ant/Cable 1 as the Main Source in the **Source Menu**.	❑ Select Ant/Cable 1 as the Main Source in the **Source Menu**.
❑ Select Video 1 as the PIP Source in the **Source Menu**.	❑ Select Video 1 as the PIP Source in the **Source Menu**.
❑ Select a channel with the TV's channel selector.	❑ Select a channel with the TV's channel selector.
❑ Turn on PIP.	❑ Turn on PIP.
❑ Select a PIP channel using the VCR's channel selector.	❑ Play a tape in the VCR and view it in the PIP window.
* May be labeled TV/Video.	



Main Picture Source
Connected to the Antenna/Cable 1 jack.

PIP Window Source
Connected to the Video 1 In jacks.

Option 1: Antenna or Direct Cable Connection To VCR.
(Cables are not supplied with television.)

OPERATION WITH CABLE DECODER

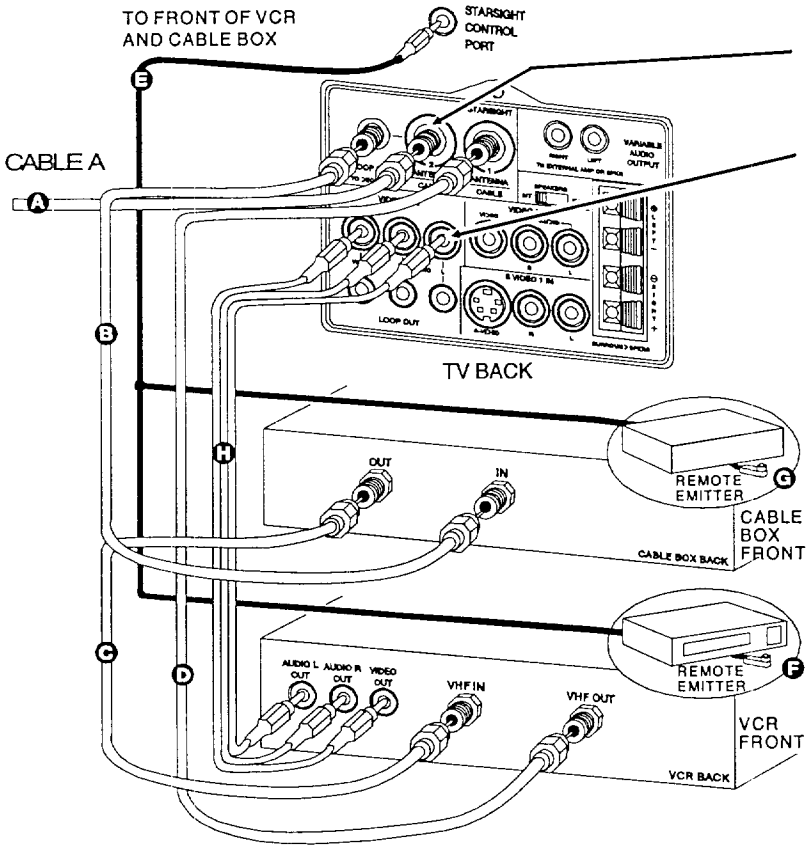
With your equipment setup in this manner, your television has the following PIP capabilities:

- ❑ Simultaneously view a video tape playing in the VCR and a basic cable channel selected by the TV's tuner.
- ❑ Simultaneously view two different cable channels; one cable channel selected by the TV's tuner and another cable channel selected by the cable box.
- ❑ Swap the main picture and the PIP window.

NOTE:

- ❑ The cable channels you can view depends on the service you have purchased from your cable company.

PIP VIEWING OPTIONS	
Viewing Two Different Cable Channels	**Viewing a Video Tape and a Cable Channel**
❑ Select Ant/Cable 2 as the Main Source in the **Source Menu**.	❑ Select Ant/Cable 2 as the Main Source in the **Source Menu**.
❑ Select Video 1 as the PIP Source in the **Source Menu**.	❑ Select Video 1 as the PIP Source in the **Source Menu**.
❑ Select a channel with the TV's channel selector.	❑ Select a channel with the TV's channel selector.
❑ Turn on PIP window.	❑ Turn on PIP window.
❑ Select a PIP channel using the tuner in the Cable Box.	❑ Play a tape in the VCR and view it in the PIP window.



Main Picture Source
Connected to the Antenna/Cable 2 jack.

PIP Window Source
Connected to the Video 1 In jacks.

Option 2: Cable-TV Decoder Connection via Loop Out To VCR.
(Cables are not supplied with television.)

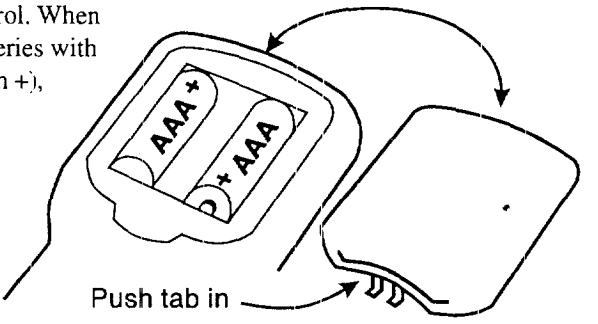
UNIVERSAL REMOTE CONTROL

INTRODUCTION

This universal remote control operates the common features of most, but not all, models and brands of IR (infrared) controlled TVs, VCRs, cable boxes, video disc players, and audio equipment. The remote may provide functions that are not available on your equipment, e.g., menu operations. Some functions of optional equipment may not be controlled by this remote. In such cases, use the original remote control for your equipment.

BATTERY INSTALLATION

Batteries are provided, but must be installed before using the remote control. When it no longer functions normally, or when it loses memory, replace the batteries with two high-quality, alkaline, size AAA batteries. Match plus with plus (+ with +), minus with minus (– with –) in the battery compartment.



Unless your equipment responds to the factory preset codes, i.e.. 101 for TV, 201 for VCR, 353 for CABLE, and 401 for AUX., you will need to reprogram the remote with the codes of your particular equipment after you replace batteries.

NOTES:

- ❑ Do not place heavy objects on top of the remote control keys. Prolonged unintentional operation of the remote shortens battery life.
- ❑ Remove the batteries if the remote will not be used for a month or more.

THE MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY BATTERY LEAKAGE .

CHOOSING OPERATING MODE

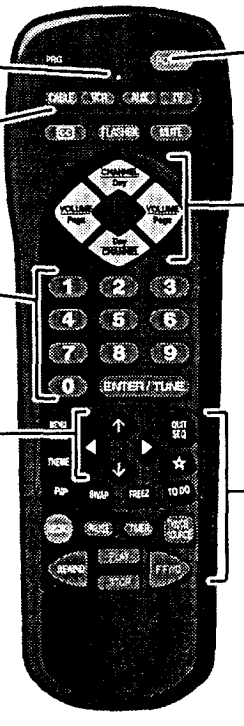
To control your TV, VCR, cable box, or auxiliary equipment with this remote, you must first choose the mode of operation. Press the desired mode key for TV, VCR, CABLE or AUX. Pressing the ☆ (Star) key will put the remote into **StarSight** mode. Press **TV** to return to TV mode. Some keys on the remote will always operate a particular product function. For example, VOLUME controls the TV sound level, and PLAY controls the VCR play function.

INDICATOR LIGHT
Illuminates whenever remote sends signal.

OPERATING MODE KEYS
Selects equipment to be controlled.

NUMBER KEY PAD
Initiates menu/equipment programming, direct channel selection and other functions.

LOWER ARROW KEY PAD
Keys perform different functions depending on the operating mode currently selected. See the following pages for more details of the various operating modes.



POWER KEY
Switches power ON or OFF to selected equipment.

UPPER ARROW KEY PAD
Keys perform different functions depending on the operating mode currently selected. See the following pages for details of each operating mode.

SPECIAL FUNCTION KEYS
Activates special features on some TVs and VCRs.

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UNIVERSAL REMOTE CONTROL

TV OPERATIONS

These descriptions apply to functions and operations of your TV. First, press the **TV** button on the remote control to select the TV mode of operation.

PRG (Program)
Used for programming your remote to operate other equipment. See "Programming Your Remote" later in this chapter for more details.

FLASHBK (Flashback)
Press to return to the previous TV channel selected for viewing.

CC (Closed Captioning)
Press to display the closed caption menu. Press repeatedly to select your choice. Press **ENTER/TUNE** to exit the menu.

CHANNEL/DAY (Up or Down Arrows)
Tunes to the next higher (or lower) channel programmed into the TV memory. Press and hold to repeat.

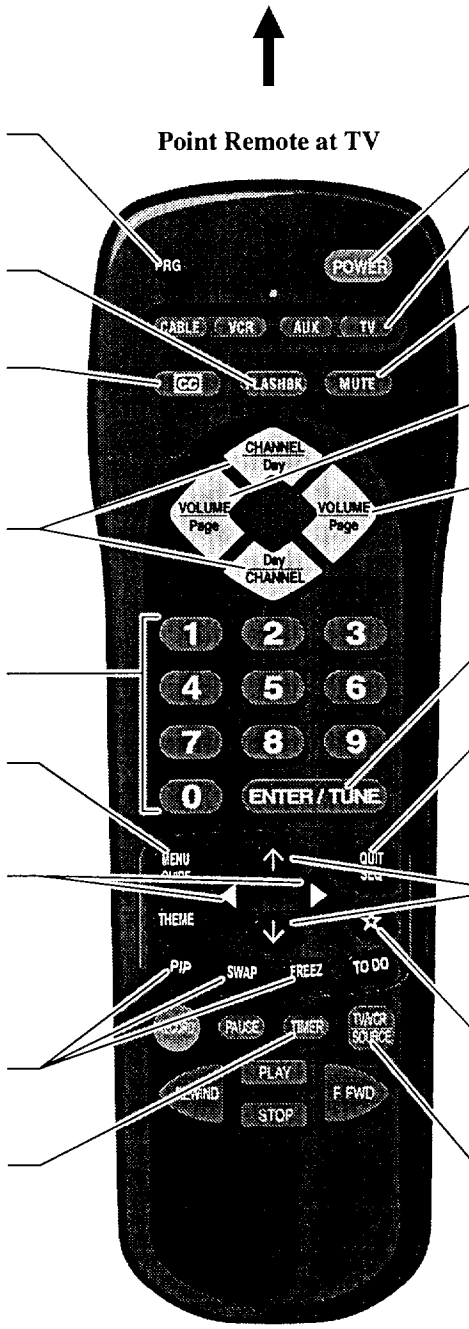
NUMBER KEY PAD
Enter number for direct channel tuning.

MENU/GUIDE
Displays on-screen menus for TV mode of operation. Press repeatedly to view other on-screen menus.

LEFT/RIGHT ARROW KEYS
Used to respond when an on-screen menu needs an ADJUST response. Press to move the highlight bar within the menu. Also used to move the PIP inset to new location on the screen.

PIP, SWAP, and FREEZ KEYS
See "PIP Operation" section for more details.

TIMER
Displays the SLEEP TIMER menu. Press repeatedly to set desired TV shut-off time. Also used to specify AM or PM when setting the TV's clock or programming a timer feature. See "Getting to Know Your TV." section for more details.



POWER
Turns TV ON or OFF.

TV
Press to select TV mode of operation.

MUTE
Press to turn off sound while the picture remains. Press again to restore the sound.

VOLUME/PAGE (Left Arrow)
Decreases the TV's sound level. Press and hold to repeat.

VOLUME/PAGE (Right Arrow)
Increases the TV's sound level. Press and hold to repeat.

ENTER/TUNE
Press to see the Channel/Time display or enter channel numbers.

QUIT/SEQ
Exits from the current on-screen display or pop-up and returns to the current channel. If no display is on, this is the normal spatial equalization ON/OFF.

UP/DOWN ARROW KEYS
Used to respond when an on-screen menu needs a SELECT response. Press to move the highlight bar within the menu. Also used to move the PIP inset to new location on the screen.

☆ (Star)
Press the ☆ (Star) key to exit the TV mode and enter the **StarSight** mode. See the **StarSight** section of this guide for more details.

TV/VCR SOURCE
Displays the menu of TV sources. Press repeatedly to step through the source selections.

TV Operations

NOTE:

- Keys dedicated to VCR functions may be used to operate your VCR while the remote is in TV mode.

UNIVERSAL REMOTE CONTROL

OPERATIONAL MODES FOR FACTORY PRESET CODES

Push-button or Key Label	TV Mode Code 101	StarSight Mode accessed with ☆	VCR Mode Code 201	Cable Mode Code 353	AUX Mode Code 401
POWER	TV Power On/Off	Star Power On/Off	VCR Power On/Off	Cable Power On/Off	AUX TV/Disc
CABLE	Selects Cable Mode	Selects Cable Mode	Selects Cable Mode	Selects Cable Mode	Selects Cable Mode
VCR	Selects VCR Mode	Selects VCR Mode	Selects VCR Mode	Selects VCR Mode	Selects VCR Mode
AUX	Selects AUX Mode	Selects AUX Mode	Selects AUX Mode	Selects AUX Mode	Selects AUX Mode
TV	Selects TV Mode	Selects TV Mode	Selects TV Mode	Selects TV Mode	Selects TV Mode
CC	TV Closed Captions	TV Closed Captions	VCR AM/PM	CABLE FC (Favorite Ch.)	AUX Audio
FLASHBK	TV Flashback	StarSight Flashback	VCR Flashback	CABLE Flashback	AUX Frame/Time
MUTE	TV Mute	StarSight Mute	TV Mute	TV Mute (See Note 1)	TV Mute
CHANNEL/DAY UP	TV Channel Up	StarSight CH/Day Up	VCR Channel Up	CABLE Channel Up	AUX Skip >>
CHANNEL/DAY DN	TV Channel Dn	StarSight CH/Day Dn	VCR Channel Dn	CABLE Channel Dn	AUX Skip <<
VOLUME/PAGE UP	TV Volume Up	StarSight Vol/Page Up	TV Volume Up	TV Volume Up (See Note 1)	TV Volume Up
VOLUME/PAGE DN	TV Volume Dn	StarSight Vol/Page Dn	TV Volume Dn	Tv Volume Dn (See Note 1)	TV Volume Dn
1	TV Digit 1	StarSight Digit 1	VCR Digit 1	CABLE Digit 1	AUX Digit 1
2	TV Digit 2	StarSight Digit 2	VCR Digit 2	CABLE Digit 2	AUX Digit 2
3	TV Digit 3	StarSight Digit 3	VCR Digit 3	CABLE Digit 3	AUX Digit 3
4	TV Digit 4	StarSight Digit 4	VCR Digit 4	CABLE Digit 4	AUX Digit 4
5	TV Digit 5	StarSight Digit 5	VCR Digit 5	CABLE Digit 5	AUX Digit 5
6	TV Digit 6	StarSight Digit 6	VCR Digit 6	CABLE Digit 6	AUX Digit 6
7	TV Digit 7	StarSight Digit 7	VCR Digit 7	CABLE Digit 7	AUX Digit 7
8	TV Digit 8	StarSight Digit 8	VCR Digit 8	CABLE Digit 8	AUX Digit 8
9	TV Digit 9	StarSight Digit 9	VCR Digit 9	CABLE Digit 9	AUX Digit 9
0	TV Digit 0	StarSight Digit 0	VCR Digit 0	CABLE Digit 0	AUX Digit 0
ENTER/TUNE	TV Enter	StarSight Enter/Tune	VCR Enter	CABLE Enter	AUX Display
MENU/GUIDE	TV Menu	StarSight Guides	VCR Menu	CABLE Menu	AUX Program
THEME	(No Function)	StarSight Theme	(No Function)	(No Function)	(No Function)
UP ARROW	TV Select Up	StarSight Select Up	VCR Select Up	CABLE Up Arrow	AUX Part
DOWN ARROW	TV Select Dn	StarSight Select Dn	VCR Select Dn	CABLE Down Arrow	AUX Random
LEFT ARROW	TV Adjust Left	StarSight Adjust Left	VCR Adjust Left	CABLE Left Arrow	AUX x3 FAST <
RIGHT ARROW	TV Adjust Right	StarSight Adjust Right	VCR Adjust Right	CABLE Right Arrow	AUX x3 FAST >
QUIT/SEQ	TV SEQ Sound/Quit	StarSight Quit	VCR Quit	CABLE Quit	AUX Clear
☆ (Star)	Enters StarSight Mode	Enters StarSight Mode	Enters StarSight Mode	Enters StarSight Mode	Enters StarSight Mode
PIP	TV PIP On/Off	StarSight PIP On/Off	VCR VCR+	CABLE Day Up	AUX Repeat-Side
SWAP	TV PIP Swap	TV PIP Swap	VCR Channel Map	CABLE Day Down	AUX Repeat-A-B
FREEZ	TV PIP Freeze	TV PIP Freeze	VCR Search	CABLE Pg Up/☆	AUX Repeat-Chap
TO DO	(No Function)	StarSight To Do	VCR Memory	CABLE Pg Dn/#	AUX Memory
TIMER	TV Timer	TV Timer	VCR Timer	CABLE Timer	AUX Still ><
TV/VCR/SOURCE	TV Source	TV Source	VCR TV/VCR Tuner	CABLE Info	AUX TV/Disc
RECORD	VCR Record	StarSight VCR Record	VCR Record	CABLE Buy	AUX Edit
PAUSE	VCR Pause	VCR Pause	VCR Pause	CABLE Guide	AUX Pause
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	VCR Rewind	AUX Scan <<
PLAY	VCR Play	VCR Play	VCR Play	VCR Play	AUX Play
STOP	VCR Stop	VCR Stop	VCR Stop	VCR Stop	AUX Stop/Eject
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	AUX Scan >>

Reference: 124-205-05 and μP 221-879-03

NOTE:

1. Can be overwritten with Cable Vol/ Mute when 399 is entered.

PROGRAMMING YOUR REMOTE

If you are using Inteq products, the remote is programmed for the most commonly used codes. For other brands — or if your remote fails to control your Inteq products — you will have to program the remote.

Follow these steps for each product you are using:

1. Look up the three-digit code for your brand (such as Zenith) and type of equipment (such as VCR) in the code table on the following page.
2. Press and hold PRG with a small blunt object until the indicator lights (about three seconds).
3. Press TV, VCR, CABLE, or AUX to select the product you want your remote to control. (Use CABLE or AUX, to program your remote for a second TV or VCR or to program your remote for a video disc player or audio equipment.)
4. Key in the three-digit code for your equipment, then press **ENTER/TUNE**. The indicator light should flash, then turn off to indicate that the code was accepted. If the indicator stays on, repeat steps 3 and 4 or try using a different code.
5. Write the codes that operate your equipment on the label inside the battery compartment for future reference.

To erase all code programming and return to the factory preset codes, key in code **9–1–1** when programming the remote.

NOTES:

- The remote cannot be programmed while in the **StarSight** mode: Choose TV, VCR, CABLE or AUX mode before pressing PRG.
- If no key on your remote is pressed within 60 seconds, the programming process will stop, and you will have to start again.
- You may cancel programming at any time by pressing **PRG**.

SPECIAL FEATURES

AUX+1, AUX+2, AUX+3 Capability

Your remote can control up to seven electronic components. If you have programmed the remote for four components using the **TV, VCR, CABLE** and **AUX** keys, you may also program it for up to three additional components (**AUX+1, AUX+2, AUX+3**) by **holding** the **AUX** key and pressing the **1, 2** or **3** key during programming. Once programmed, hold down the **AUX** key and press **1, 2** or **3**, to access the additional **AUX +1, 2** or **3** mode.

Cable Box Volume

You may use your remote to control cable box volume and muting if available on your equipment. First program your remote with the brand code for your cable device using the **CABLE** or **AUX** key. Then repeat the programming steps, again using the **CABLE** or **AUX** key, but key in code **3–9–9** instead of a brand code.

To restore TV volume/mute control to the CABLE or AUX mode, reprogram your cable code into that mode.

Amplifier Volume Override

You may use your remote to override your TV, VCR or video disk player's volume functions with your amplifier's volume and muting.

1. Program your amplifier code into the CABLE mode or one of the AUX modes.
2. Select the mode on your remote (TV, VCR, etc.) where you want the **amplifier** volume control function to appear. In other words, if you want to operate the volume and mute of your amplifier while the remote is in TV mode, press TV for this step.
3. Begin the programming steps as described in "Programming Your Remote" and enter code **4–9–9**, followed by ENTER.

   The amplifier volume and mute features are now available in the current mode.

To restore normal volume and muting control to your TV, VCR, cable or laser disc player, reprogram the remote for these units into each mode (TV, VCR, etc.) to be restored.

NOTE:

- CD and tape devices will automatically select amplifier volume and mute.

AUTO FIND OPTION

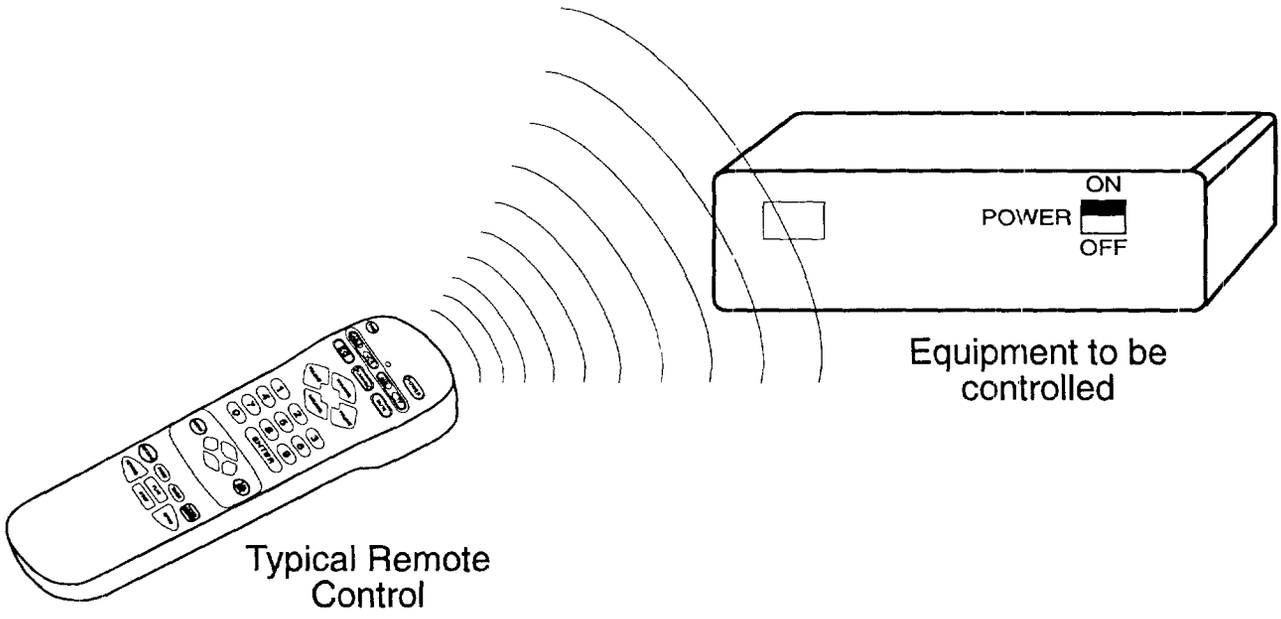
If you have tried all the codes listed for your brand and type of product in the code table, and none of those codes operate your equipment, you can use Auto Find to search for the code you need.

Follow these steps for each product you are using:

1. Turn the product ON and aim the remote toward it.
2. Press and hold **PRG** with a small blunt object until the indicator lights (about three seconds).
3. Press the mode key on the remote for the product you want to control: **TV, VCR, CABLE,** or **AUX**.
4. Key in code **0–0–0**, then press **ENTER** within two seconds. When the indicator light flashes three times and remains lit, Auto Find is active.
5. Press and hold **POWER**, then release it, repeating this action about once a second until the product turns OFF.
6. Press **ENTER** immediately to save the code. If your remote fails to operate the functions you use most often, you can re-enter Auto Find and search for a better code.

NOTES:

- The indicator light should flash OFF when you press **POWER** and back ON when you release it. If the indicator light stays on when you press **POWER**, Auto Find has tried all available codes. If you finish Auto Find and the product you want to control has not turned off, your remote cannot control that product.
- Pressing **PRG** at any time during the use of Auto Find will cancel Auto Find, and you will have to start again.



UNIVERSAL REMOTE CONTROL

OPERATING CODES BY BRAND NAME

TVS

Admiral	116, 121, 130, 133
Adventura TV/VCR	154
Akai	104
Amark	103, 146
AOC	104
Bell & Howell	121
Broksonic	131, 136
Candle	139
Centurion	119
Citizen	121, 139
Contec	141
Coronado	103
Crown	103
Curtis Mathes	116, 119, 121
Daewoo	149, 159
Daewoo TV/VCR	148
Daytron	119
Elektra	121
Emerson	103,104,123,124, 131, 136, 145
Emerson TV/VCR	158
Fisher	109, 118
Funai TV/VCR	154
General Electric	106, 107, 114, 116, 117, 161
Goldstar	103, 104, 119, 147
Goldstar TV/VCR	153
Hitachi	102, 103, 129, 163
J.C. Penney	104, 110, 114, 117, 119
JVC	125, 132, 164
KMC	103
KTV	103, 104, 138
Kurazai	121
Lodgenet	121
Logik	121
LXI	133, 137
Magnavox	103, 112, 113, 117, 119, 127, 128, 139, 165
Magnavox TV/VCR	173
Majestic	121
Marantz	104, 120, 155
Megatron	146
Memorex	121
MGA/ Mitsubishi	104, 119, 120, 130, 140, 155
Montgomery Ward	103, 104, 105, 113, 114, 119, 121, 130, 133
NEC	104, 119
Panasonic	106, 107, 160, 166
Panasonic TV/VCR	174
Philco	103, 104, 112, 113, 139
Philips	112, 113
Pioneer	135
Portland	103
ProScan	116, 157, 162, 167
Quasar	106, 107
RCA	104, 116, 126, 157,161,162,167,168
Realistic	105, 123, 124
Sampo	119
Samsung	103, 119, 134, 141
Sanyo	108, 109, 118
Scott	119, 124
Sears	103, 108, 109, 110, 111, 118, 134
Sharp	103, 105, 122, 133, 137, 156, 169
Signature 2000	103, 104, 105, 113, 114, 119, 121, 130, 133
Sony	115, 143, 151, 170
Soundesign	139
Sylvania	112, 113, 117, 119, 127, 128, 139
Symphonic TV/VCR	154
Tatung	106
Teknika	103, 112, 121, 124, 139
Telerent	103, 121
Toshiba	110, 111, 134, 171
XR1000	121
Yorx	119
Zenith	101, 149
Zenith TV/VCR	153, 154, 172

VCRS

Admiral	208, 261
Adventura	231
Aiwa	231
Akai	223, 238, 241
Audio Dynamics	202, 218
Bell & Howell	206, 247
Broksonic	221, 226, 250, 255
Canon	214
Citizen	209
Craig	212
Curtis Mathes	214, 259
Daewoo	244, 246, 248, 254
Daytron	236, 246
DBX	202, 218
Emerson	203, 221, 223, 226, 233, 235, 243, 250
Fisher	211, 212, 213, 247
Funai	231
General Electric	214, 216, 220
Goldstar	209
Go Video	256, 262, 263
Hitachi	215, 257
Instant Replay	214, 227
J.C. Penney	214, 215, 218, 227
JVC	202, 225, 258
Kenwood	202
Logik	239
LXI	209, 231
Magnavox	207, 214, 231
Marantz	207, 218
Marta	209
Memorex	206, 212, 214, 231
Mitsubishi	204, 222, 252
Montgomery Ward	208, 214, 216, 219, 231, 249
Multi Tech	239
NEC	202, 218
Orion	250
Panasonic	214, 251, 259
Pentax	215
Philco	207, 214
Philips	207, 214, 227
Pioneer	210, 215
Portland	246
Pro Scan	216, 260
Quasar	214, 259
RCA	215, 216, 220, 227, 240, 242, 260
Realistic	206, 208, 212, 214, 231
Samsung	220, 230
Sansui	239
Sanyo	206, 212, 247
Scott	204, 205, 233, 243
Sears	206, 209,211, 212, 215
Sharp	208, 261
Shintom	239
Signature 2000	208, 214, 216, 219, 231, 249
Sony	217, 232, 237
Sylvania	207, 214, 227
Symphonic	231
Tashiko	209
Tatung	202
Teac	202, 231
Teknika	234
Toshiba	205, 215
XR1000	239
Vector Research	204, 218
Yamaha	202, 218
Zenith	201, 224, 225, 229, 237

CABLE/SATELLITE

Allegro	358, 362
Allegro A/B Switch	361
Gemini	305, 331, 338
General Electric	367
General Instrument	305, 306
Hamlin	302, 303, 345, 365, 366
Jerrold	304, 307, 308, 309, 310, 318, 360, 363
Kale Vision	335
Macom	314, 321
Magnavox	334
NSC	335, 339, 368, 369, 370
Oak	311, 332, 342
Panasonic	313, 320
Paragon	333
Philips	347, 350, 352, 354, 355
Pioneer	315, 343
RCA DSS	373
Regency	329
Samsung	335
Scientific Atlanta	316, 323, 336, 364
Sprucer	313
Standard Comp	335
Texscan	339, 356, 371
Tocom	317, 318, 346
Unika	348, 362
United Satellite	344
Universal	358, 362
Vid Tech	340
Video Way	349
Viewstar	354, 355, 372
Zenith	301, 353
Zenith Satellite	312, 328, 330, 351

VIDEO DISK PLAYERS

Pioneer	402, 403
Sanyo	401
Sony	404
Zenith	401

AUDIO CD PLAYERS

Akai	409, 424
Crown	410
Denon	411
Fisher	412, 438
Goldstar	460
Harman/Kardon	413
JVC	415
Kenwood	412, 416, 417, 441
Magnavox	421, 422, 433, 434
Mitsubishi	423, 424
NAD	425, 426, 447
Nakamichi	427, 428
NEC	429
Onkyo	430
Panasonic	431, 432
Philips	421, 433, 434
Pioneer	431, 435
Quasar	432
Radio Shack	431, 436, 439, 440, 441
RCA	437
Sanyo	438, 439
Scott	440
Sharp	441, 442
Sony	443, 444, 445
Soundesign	461, 498, 501, 502
Teac	446
Technics	432, 459
Toshiba	447
Yamaha	448
Zenith	460, 461, 498, 501, 502

AUDIO TAPE DECKS

Denon	455
Harman/ Kardon	456
JVC	457
Kenwood	450
Onkyo	458
Philips DCC	454
Pioneer	451, 478
Sony	452
Technics	454, 497
Yamaha	453

AUDIO TUNERS AND AMPLIFIERS

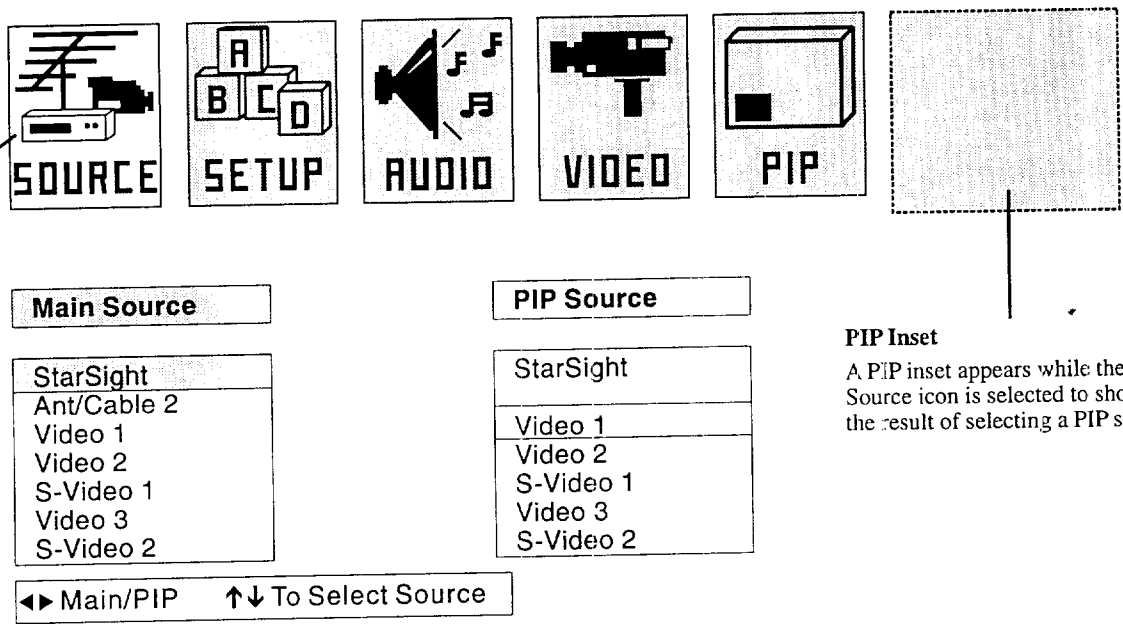
Denon	462, 463
Fisher	464
Goldstar	460
Harman/ Kardon	465
JVC	466
Kenwood	468, 469
Marantz	472, 503
Onkyo	473
Philips	475, 476
Pioneer	477, 478, 479
Radio Shack	487, 488
Realistic	480
Sanyo	481
Scott	482
Sharp	483
Sherwood	487, 488
Sony	489, 490, 491, 492
Soundesign	461, 498, 501, 502
Teac	494, 495
Technics	497
Yamaha	496
Zenith	460, 461, 498, 501, 502

Ref: 124-205-05 and
μP 221-879-03

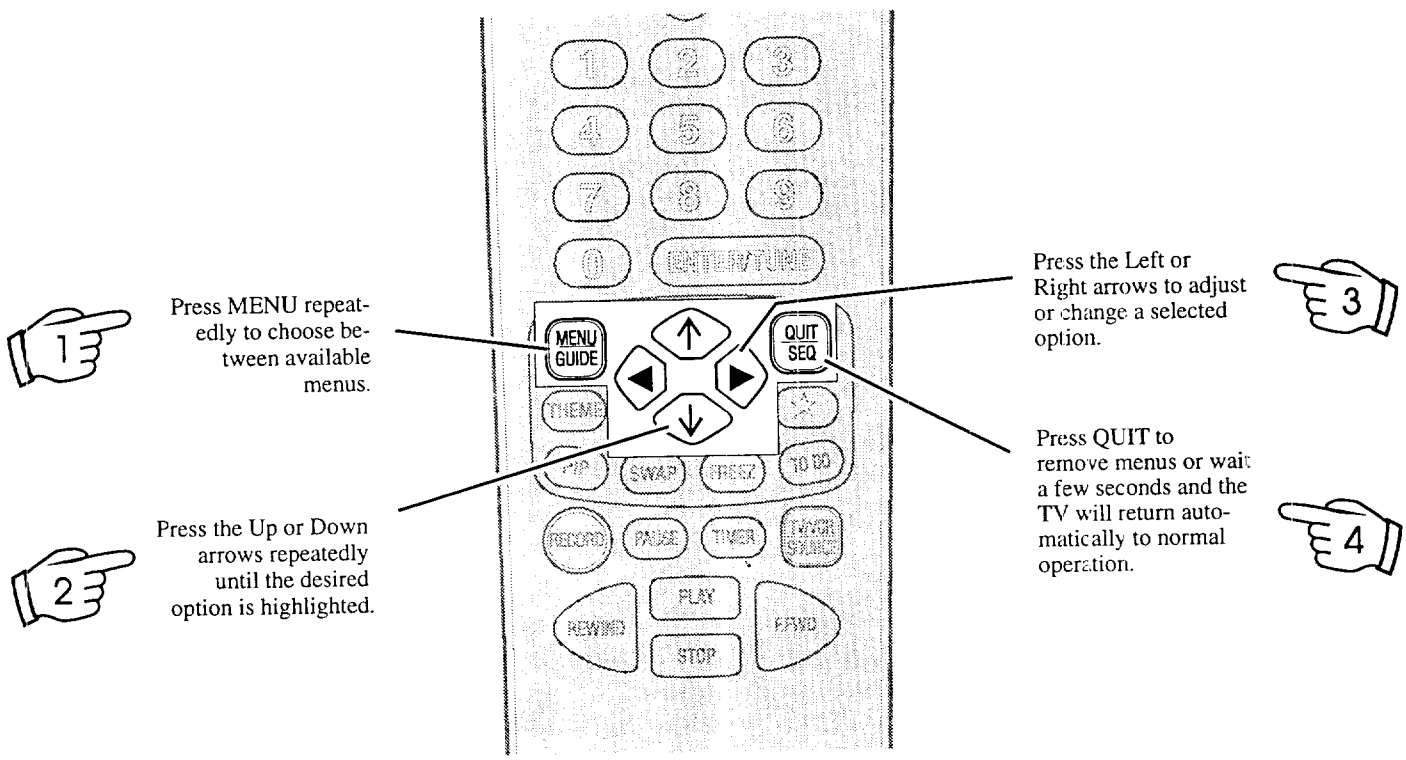
QUICK REFERENCE TO MENUS: UNIVERSAL REMOTE

AVAILABLE MENUS

Your TV is **icon** and **menu** operated. In other words, an icon is selected at the top of the TV screen and a menu of adjustment options appears.

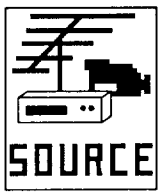


BASIC MENU OPERATION



Typical Remote Control

SOURCE MENU



Main Source	PIP Source
StarSight	StarSight
Ant/Cable 2	
Video 1	Video 1
Video 2	Video 2
S-Video 1	S-Video 1
Video 3	Video 3
S-Video 2	S-Video 2

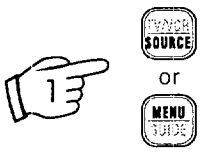
◀▶ Main/PIP ↑↓ To Select Source

Video 3 and S-Video 2 are source options for some TV models only.

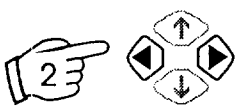
A PIP window appears while the Source icon is selected to show the effect of choosing a PIP source.

If the PIP Source is changed, the PIP window will remain on the screen after you exit from menu operations.

MENU OPERATION



Press SOURCE for direct entry to the **Source Menu**, or press MENU repeatedly until the Source Menu is selected.



Press the Left/Right keys to select either **Main Source** column or **PIP Source** column.

Press SOURCE repeatedly until the desired Source is selected.

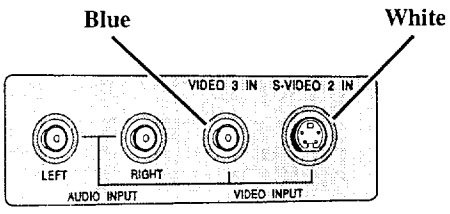
Press QUIT or wait a few seconds for the TV to return to normal operation.

SOURCE SELECTION

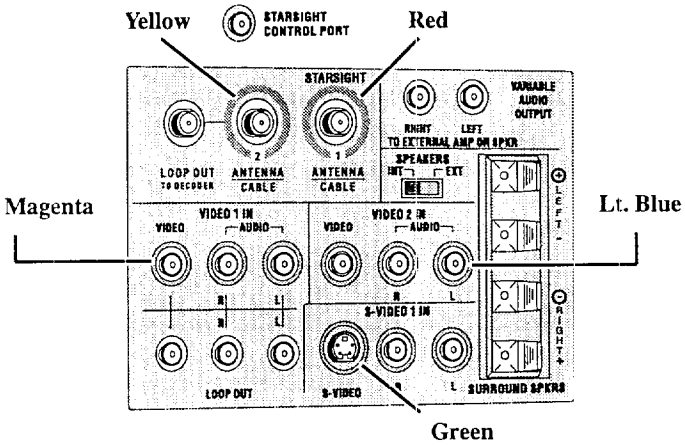
❑ **ANT/CABLE 1 or 2**	Routes the antenna or cable-TV source to the TV for viewing. You see program material from whichever signal source is connected to the ANT/CABLE 1 or 2 jack. (If the signal is from a VCR or a cable box, tune the TV to either channel 3 or 4.)
❑ **VIDEO 1, 2 or 3**	Routes the audio and video from an A/V source (such as a VCR or a video disc player) to the TV for viewing. The source must be connected to the corresponding VIDEO 1, 2 or 3 IN jacks.
❑ **S-VIDEO 1 or 2**	Routes the audio and video from an auxiliary Super-VHS video source (such as a VCR or a video disc player) to the TV for viewing. The source must be connected to the corresponding S-VIDEO 1 or 2 IN jacks.

Refer to the "Standard Connections for Your TV" section to make the proper equipment connections to the TV. For information about PIP sources, refer to the "PIP Operation" section.

SOURCE IDENTIFICATION



Auxiliary A/V Jacks (Some TV Models)

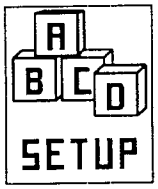


Connection Center on Back of TV

NOTE:

❑ The color of the Channel/Time display corresponds to the color rings around the connectors of the jack panels. For example, the Channel/Time display will be Red if you are watching a program on Ant/Cable 1 source.

SETUP MENU



Auto Program
Ch. Add/Del
Ch. Labels
Source ID
Clock Set
Timer Setup
Parental Ctl
Caption/Text
Background
StarSight

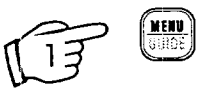
Press ◄► To Program

Source ID
Clock Set
Timer Setup
Parental Ctl
Caption/Text
Background

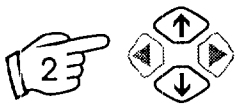
Press ◄► To Label Sources

While Video or Super-Video Source is Chosen

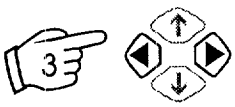
MENU OPERATION



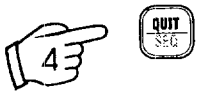
Press MENU repeatedly until the SETUP MENU is shown.



Press the Up/Down keys until the desired option is selected.



Press the Left/Right keys to adjust the selected option.



Press QUIT or wait a few seconds for the TV to return to normal operation.

▫ **Auto Program**	Finds all active channels and stores them in the TV's memory for use by CHANNEL up/down. See "THE FIRST TIME YOU OPERATE YOUR TV" for more details.
▫ **Ch. (Channel) Add/Del**	Edits the channels found by Auto Program to create your own personal list of favorite channels. See the information following this chart for more details.
▫ **Ch. (Channel) Labels**	Assigns a network/station label, name or call letters to specified channels. For example, if you choose the label "ABC" for channel 9, then "ABC" will appear in the Channel/Time display whenever channel 9 is selected. See the information following this chart for more details.
▫ **Source ID**	Assigns a descriptive "name" to the input sources. For example, the Video 1 source may be named VCR. "VCR" will now appear in the Source Menu as a reminder that your VCR is connected to the Video 1 input jacks.
▫ **Clock Set**	Sets the clock in the TV to the correct time. Press the Left/Right arrow keys to advance the 24-hour clock, or use numbered buttons on the remote to enter time. Press ENTER to start the clock.
▫ **Timer Setup**	Sets the TV's **Sleep Timer** and **On/Off Timer** features. See the information following this chart for more details.
▫ **Parental Ctl. (Control)**	Use this feature to block viewing of any undesirable channels or an entire input video source. See the information following this chart for more details.
▫ **Caption/Text**	Displays closed captioning or informational text when available on the selected channel. Options are: **OFF, CAPTION 1, CAPTION 2, CAPTION 3, CAPTION 4, TEXT 1, TEXT 2, TEXT 3,** or **TEXT 4**. See the information following this chart for more details.
▫ **Background**	Adds or removes a solid-color background behind the on-screen menus.
▫ **StarSight**	Begins the StarSight setup procedure. Refer to the StarSight section of this guide for details.

continued on next page

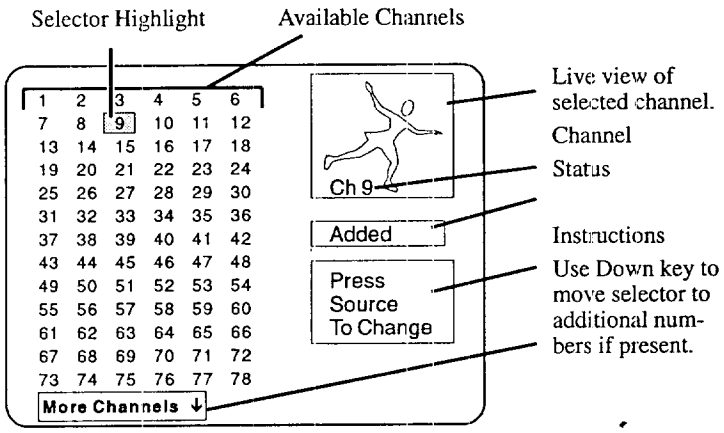
SETUP MENU

USING CH. (CHANNEL) ADD/DEL

Add Channels to Scan	Delete Channels from Scan
❑ Press the Up/Down keys to select **Ch. Add/Delete**.	❑ Press the Up/Down keys to select **Ch. Add/Delete**.
❑ Press Left/Right keys to view the add/delete screen.	❑ Press Left/Right keys to view the add/delete screen.
❑ Use the Left/Right and Up/Down keys to move selector to the channel being added.	❑ Use the Left/Right and Up/Down keys to move selector to the channel being deleted.
❑ Add the channel by pressing SOURCE until the display shows **Added**.	❑ Delete the channel by pressing SOURCE until the display shows **Deleted**.

NOTES:

- ❑ Ch. Add/Del can only be used with ANT/CABLE 1 or 2 Source.
- ❑ The audio of deleted channels is muted.



Available channels are:

Broadcast Band — VHF 2 to 13, UHF 14 to 83

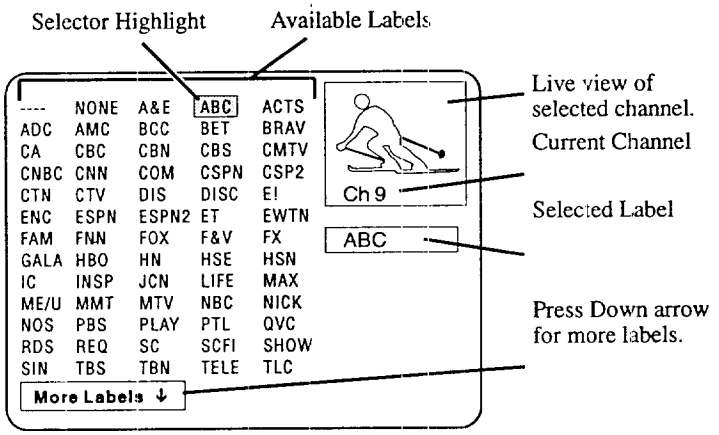
Cable-TV Band — 1 to 139

USING CHANNEL LABELS

Assign Labels	Remove/Prevent Labels
❑ Press the Up/Down keys to select **Ch. Labels.**	❑ Press the Up/Down keys to select **Ch. Labels.**
❑ Press Left/Right keys to view the Channel Label screen.	❑ Press Left/Right keys to view the Channel Label screen.
❑ Select a channel by pressing the CHANNEL Up/Down keys.	❑ Select a channel by pressing the CHANNEL Up/Down keys.
❑ Use the Left/Right and Up/Down keys to move selector to the desired label.	❑ Use the Left/Right and Up/Down keys to move selector to the four dashes or NONE.

NOTES:

- ❑ Ch. Labels can only be used with ANT/CABLE 1 or 2 Source.
- ❑ Selecting the four dashes (- - - -) specifies that no channel label is assigned. Or, in addition to not assigning a label, **NONE** blocks the station or network labels that are transmitted by some television stations.



USING SOURCE ID

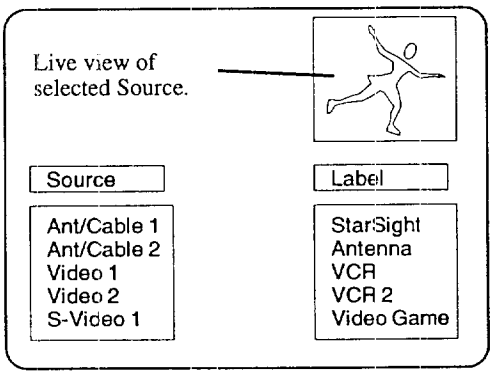
Assign Names To Your Sources
❑ In the Setup Menu, press the Up/Down keys to select **Source ID**.
❑ Press the Left/Right keys to view the Source ID screen.
❑ Press the Up/Down keys to choose a Source.
❑ Press the Left/Right keys to Label the chosen Source.

Optional names for ANT/CABLE 1 or 2 Sources are: ----, Disabled, Antenna, Cable, Cable Box, Satellite, VCR, StarSight (Ant/Cable 1 only).

Optional names for VIDEO Sources are: ----, Disabled, VCR, VCR2, Camcorder, Video Game, Laser Disc, Audio Only, Satellite (some models only).

NOTE:

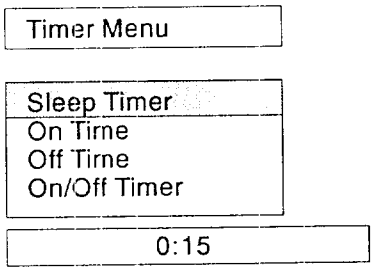
- ❑ Disabling a Source prevents it from appearing in the Source Menu.



TIMER SETUP: Sleep Timer

The **Sleep Timer** programs the TV to automatically turn itself off after a period from 15 minutes up to 4 hours.

From Setup Menu	Direct Access
❑ Make sure the TV's clock is set. ❑ Press the Up/Down keys to select **Timer Setup** and view the **Timer Menu**. ❑ Press the Up/Down keys to select Sleep Timer. ❑ Use the Left/Right keys to set the period of time the TV will remain on.	❑ With no menus showing on the TV, press TIMER on your remote to directly access the Sleep Timer. ❑ Press TIMER repeatedly to set the period of time the TV will remain on.
❑ One minute before the TV turns off, the GOOD NIGHT display appears on the screen. At this time you have a choice of the following two actions. ❑ Do nothing. The GOOD NIGHT display remains on the screen. The TV will turn off in one minute. ❑ Delay the turn-off by resetting the timer with a new time period.	



Sleep Timer Set to Turn TV OFF in 15 Minutes

"Good Night" Display Appears 60 Seconds Before Shut-Off

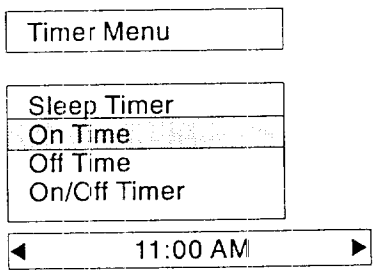
NOTES:

- ❑ To cancel the Sleep Timer, turn off the TV or press TIMER repeatedly until OFF is showing.
- ❑ As the Good Night display counts down the final 60 seconds, the audio and video of the TV also "dim" for a soft, discreet turn-off.

TIMER SETUP: On/Off Timer

The **On/Off Timer** programs the TV to automatically turn itself on at a specific time then turn itself off at another time.

Set On/Off Timer
❑ Make sure the TV's clock is set. ❑ Press the Up/Down keys to select **Timer Setup** ❑ Press Up/Down keys to select **On Time** and use the numbered buttons on your remote to enter a time for the TV to turn itself ON. Press TIMER on the remote to select AM or PM. (You can also use the Left/Right keys to advance the time.) ❑ Press Up/Down keys to select Off Time and use the numbered buttons on your remote to enter a time for the TV to turn itself OFF. Press TIMER on the remote to select AM or PM. (You can also use the Left/Right keys to advance the time.) ❑ Press Up/Down keys to select On/Off Timer and use ADJUST on remote to turn timer ON (or OFF).



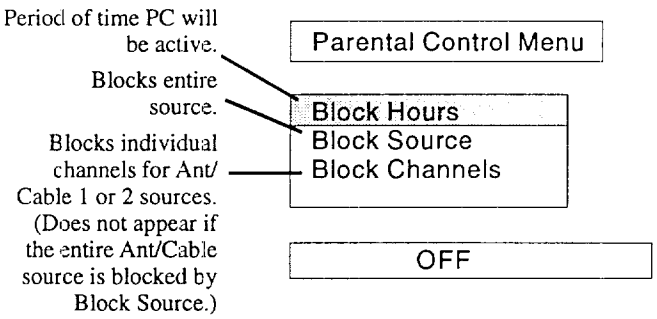
On/Off Timer Set to Turn TV ON at 11:00 am

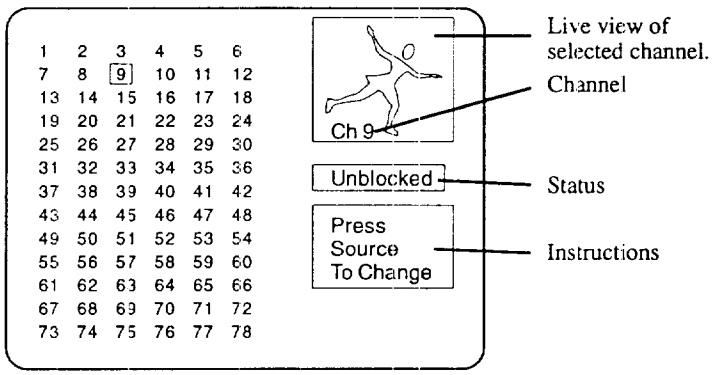
NOTE:

- ❑ A time must be set for either On Time or Off Time in order to turn the timer ON.

SETUP MENU

USING PARENTAL CONTROL (PC)





Block Entire Source	Block Individual Channels (Ant/Cable 1 or 2 Sources Only)	Re-enter PC While it is Activated
❑ Press the Up/Down keys to select **Parental Ctl** and press the Left/Right keys to view the **PC Menu**. ❑ Select **Block Hours** and use Left/Right keys to set the length of time PC will be active: OFF, 12, 24, 48 or 72 hours. ❑ Select **Block Source** and use Left/Right keys to"Block" the input source. ❑ To block other sources, press the SOURCE key and set them to "Block." ❑ Press ENTER to exit and enter any 4-digit "Parental Access Code" when prompted to do so. (You will be prompted to verify the number by entering it a second time.)	❑ Press the Up/Down keys to select Parental Ctl and press the Left/Right keys to view the **PC Menu**. ❑ Select **Block Hours** and use Left/Right keys to set the length of time PC will be active: OFF, 12, 24, 48 or 72 hours. ❑ DO NOTHING WITH **BLOCK SOURCE**. ❑ Select **Block Channels**. ❑ Use Left/Right and Up/Down keys to select a channel and press the SOURCE key to set it to "Block." Repeat this for each channel you want blocked. ❑ Press ENTER to exit and enter any 4-digit "Parental Access Code" when prompted to do so. (You will be prompted to verify the number by entering it a second time.)	❑ Press the Up/Down keys to select Parental Ctl and press the Left/Right keys to view the **PC Menu**. ❑ Enter your access code . ❑ Make your changes (block more channels, reset the time period, etc.). ❑ Press ENTER to exit. ❑ You will be prompted to change your access code. Either enter a new 4-digit code or do nothing to retain the current code.
REMEMBER YOUR CODE! TO RE-ACCESS PARENTAL CONTROL WHILE IT IS ACTIVATED, YOU MUST ENTER THIS NUMBER. Otherwise, simply allow the specified period of time to elapse.		

NOTE:

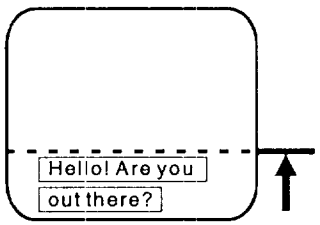
❑ **Do not unplug the TV in an attempt to deactivate the Parental Control. This only resets Parental Control.**

USING CAPTIONS

Activating Captions (With CC Button)	Activating Captions/Text (From Setup Menu)
❑ Press CC button on remote. ❑ Press CC repeatedly to toggle through the five choices: Off, Caption 1, Caption 2, Caption 3 And Caption 4.	❑ Press the Up/Down keys to select Caption/Text. ❑ Press Left/Right keys to toggle through the nine choices: Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4.

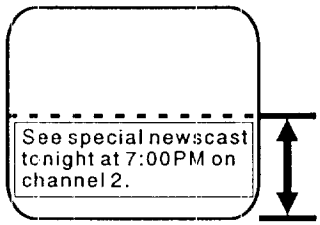
NOTE:

❑ At present, very few TV programs or video tapes offer text captioning for any option other than **CAPTION 1**. Therefore, **CAPTION 1** is the only recommended choice, unless you know that a specific program is providing captioning using one of the other selections.



Typical Captions Display

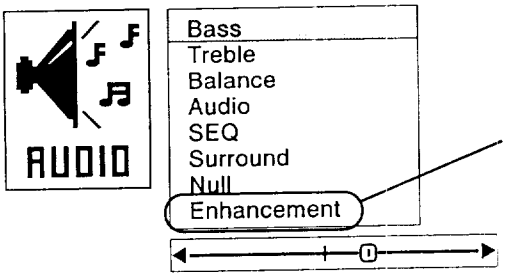
Captions may be shown anywhere on the screen.



Typical Text Display

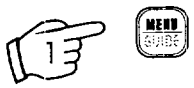
Fixed size text window fills lower half of screen.

AUDIO MENU

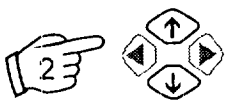


For televisions having the Dolby **Pro Logic** audio system, the Enhancement option appears in place of the SEQ, Surround, and Null options.

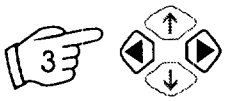
MENU OPERATION



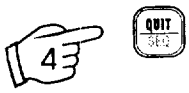
Press MENU repeatedly until the AUDIO MENU is shown.



Press the Up/Down keys until the desired option is either highlighted or selected.



Press the Left/Right keys to adjust the selected option.



Press QUIT or wait a few seconds for the TV to return to normal operation.

❑ **Bass**	Adjusts the BASS (low-frequency) level.
❑ **Treble**	Adjusts the TREBLE (high-frequency) level.
❑ **Balance**	Adjusts the balance of sound between the two speakers.
❑ **Audio** (SAP is not an option for the Video or S-Video sources. Audio signals into a video source are assumed to be monaural or stereo.)	Allows you to select STEREO, MONO or 2ND AUDIO/SAP operation. STEREO: Directs the sound to the Left and Right speakers as supplied by the program. Stereo is the recommend choice: The TV switches automatically between the STEREO and MONO modes depending on the type of signal being received. MONO: Directs the same sound to both Left and Right speakers, even if the program being received is in stereo. 2ND AUDIO/ SAP: Directs the sound for the Second Audio Program (second language) to both the Left and Right speakers. SAP sound is always monaural. If SAP is selected, you hear the SAP (usually a second language). When the SAP broadcast ends, the TV switches automatically (defaults) to the type of signal being received, STEREO or MONO. The TV switches back to 2ND AUDIO/SAP when the SAP broadcast resumes.
❑ **SEQ** (Spatial Equalization)	Produces a spacious and more tonal sound. SEQ is only available while a stereo signal is being received and processed by the TV.
❑ **Surround**	Adjusts the level of Surround Sound provided to the optional surround sound speakers. Surround Sound is only available if a surround encoded stereo signal is being received and STEREO is either selected using the AUDIO option or selected by default.
❑ **Null**	Used to Minimize front channel sound from coming through the surround speakers . To adjust the Null, while watching a Dolby Surround-encoded video tape, select **Null** and use the Left/Right keys to remove any dialogue that may be heard from the surround speakers.
❑ **Enhancement** (Dolby Pro Logic audio systems only)	Provides options for enhancing the TV's audio. The options shown depend on what is selected for the AUDIO option above. See the information following this chart for more details.
Mono or SAP Selected:	Your audio Enhancement options are **Off** and **Pseudo Stereo**. Off specifies that no Enhancement is activated. Pseudo Stereo enhances monaural audio to emulate stereo-like sound.
Stereo Selected:	Your audio Enhancement options are **Off, Concert Hall, Theater, Night Club, Stadium, Dolby Pro Logic-Normal** and **Dolby Pro Logic-Phantom**. Off specifies that no Enhancement is activated. For the other options, see "Stereo Operation," and "Dolby Pro Logic Operation."

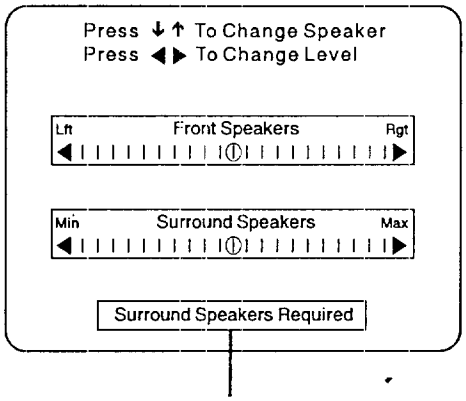
NOTE:

❑ All adjustments on the Audio Menu are optional. You do not have to adjust these features in order to use your TV.

AUDIO MENU

SPEAKER BALANCE

Stereo Operation
❑ Select **Stereo** as the Audio option.
❑ Select a desired Enhancement: **Concert Hall, Theater, Night Club** or **Stadium**, or set Enhancement to **Off**.
❑ Adjust Bass and Treble for the most pleasing sound.
❑ Select Balance and press the Left/Right arrow key to view the speaker balance screen.
❑ Press the Up/Down keys to choose the speakers you want to adjust; either the front speakers (those in the TV) or the optional surround sound speakers.
❑ Press the Left/Right keys to adjust the selected speakers.



Message appears when adjusting Surround Sound.

Dolby Pro Logic-Normal	Dolby Pro Logic-Phantom
❑ Select Dolby Pro Logic-Normal as the **Enhancement**.	❑ Select Dolby Pro Logic Phantom as the Enhancement.
❑ Turn on the external amplifier and set its volume to approximately the same volume as the TV.	❑ Adjust Bass and Treble for the most pleasing sound.
❑ Bass and Treble **can not** be adjusted for Pro Logic Normal.	❑ Select Balance and press the Left/Right arrow key to view the Pro Logic balance screen.
❑ Select Balance and press the Left/Right arrow key to view the Pro Logic balance screen.	❑ Press the Up/Down keys to select a speaker (Left, Right or Surround) to adjust.
❑ Press the Up/Down keys to select a speaker (Left, Right or Surround) to adjust.	❑ A highlight box and an audible "hissing" sound will "bounce" between the selected speaker and the **Center Reference**.
❑ A highlight box and an audible "hissing" sound will "bounce" between the selected speaker and the **Center Reference**.	❑ Press the Left/Right keys to set the volume of the "hissing" (for the selected speaker) to approximately the same level as the "hissing" of the **Center Reference**. Do this for each speaker.
❑ Press the Left/Right keys to set the volume of the "hissing" (for the selected speaker) to approximately the same level as the "hissing" of the **Center Reference**. Do this for each speaker.	

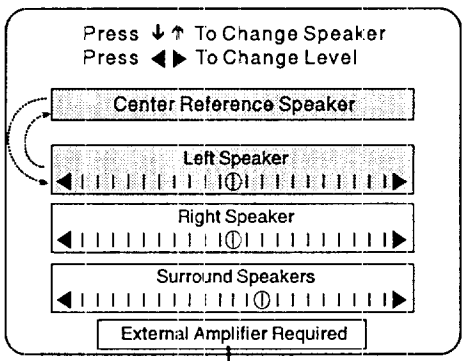
NOTES:

- ❑ To fully appreciate the quality of sound provided by the Dolby Pro Logic audio system, make sure the speakers are balanced as described above.
- ❑ An external amplifier **must** be connected to use Dolby Pro Logic- **Normal** audio enhancement.
- ❑ Optional Surround speakers must be connected to hear Surround Sound.
- ❑ While Pro Logic-Normal is selected, **Bass** and **Treble** adjustments on the TV are not possible. These must be adjusted using the external amplifier.

STEREO SOUND BALANCE

- ❑ Up/Down arrow keys select the speakers.
- ❑ Left/Right arrow keys balance sound to left and right speakers in television and increase/decrease surround sound.

Highlight box "bounces" between selected speaker and Center Reference.

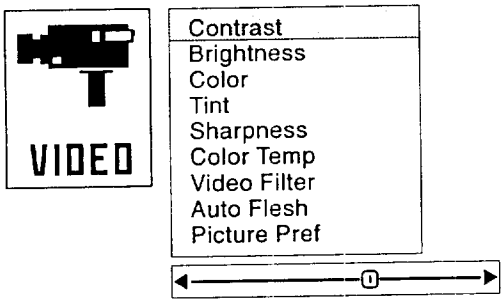


Message appears only for Pro Logic Normal selection.

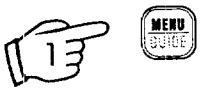
PRO LOGIC BALANCE

- ❑ Up/Down arrow keys select the speakers.
- ❑ Left/Right arrow keys adjusts the level of sound.

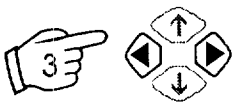
VIDEO MENU



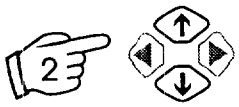
MENU OPERATION



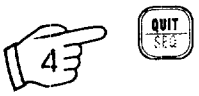
Press MENU repeatedly until the VIDEO MENU is shown.



Press the Left/Right keys to adjust the selected option.



Press the Up/Down keys until the desired option is selected.



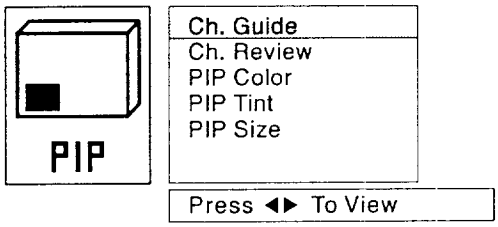
Press QUIT or wait a few seconds for the TV to return to normal operation.

❑ **Contrast**	Adjusts the overall contrast and color level of the picture.
❑ **Brightness**	Adjusts the brightness level of black areas in the picture.
❑ **Color**	Adjusts the intensity of the colors in the picture.
❑ **Tint**	Adjusts the color of the flesh tones to more Green or more Red.
❑ **Sharpness**	Adjusts the definition of the object edges for best picture quality.
❑ **Color Temp (Temperature)**	Changes the "color temperature" or picture white balance between cooler natural whites and warmer (red) colors.
❑ **Video Filter**	Reduces video "noise" or interference in dark picture areas resulting in clearer overall pictures.
❑ **Auto Flesh**	Automatically maintains natural skin tones under changing scene and video source conditions.
❑ **Picture Pref. (Preference)**	Lets you decide if you want to use your own CUSTOM video settings, the factory PRESET video settings or the factory preset THEATER video settings. The THEATER settings are preset to provide optimum visual performance in low light "theater-like" conditions.

NOTES:

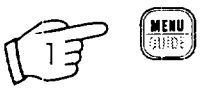
- ❑ All adjustments on the Video Menu are optional. It is not necessary to adjust these features in order to operate the TV.
- ❑ Any adjustments made to the Video Menu settings while Picture Pref. is in PRESET or THEATER mode will automatically store the current settings as the CUSTOM setting.

PIP MENU

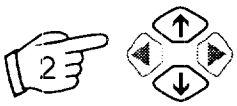


Selecting the PIP Menu does not "activate" PIP. However, a PIP window will appear during menu operation to show the effect of any setting changes.

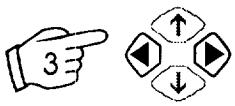
MENU OPERATION



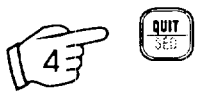
Press MENU repeatedly until the PIP MENU is shown.



Press the Up/Down keys until the desired option is either highlighted or selected.

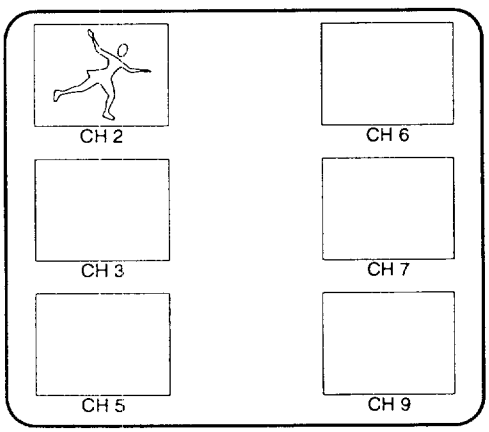


Press the Left/Right keys to adjust the selected option.



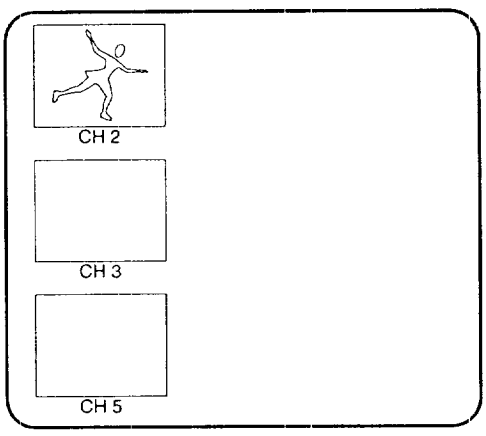
Press QUIT or wait a few seconds for the TV to return to normal operation.

❑ **Ch. Guide**	Provides a visual review of all channels in the channel scan memory for the currently selected ANT/CABLE source. (See below.)
❑ **Ch. Review**	Provides a visual review of the last three (3) channels tuned on the TV. (See below.)
❑ **PIP Color**	Adjusts the intensity of the colors in the PIP inset.
❑ **PIP Tint**	Adjusts the color of the flesh tones in the PIP inset to more Green or more Red.
❑ **PIP Size**	Adjusts the size of the PIP inset. Choose between small or large.



Ch. Guide Screen

Shows 3-second live displays of all channels saved in the channel scan sequence.



Ch. Review Screen

Shows 3-second live displays of the last 3 channels viewed on the TV.

REMOTE CONTROL Z-TRAK

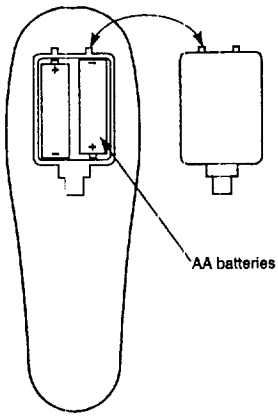
INTRODUCTION

This multi-brand remote control operates the common features of most, but not all, models and brands of IR (infrared) controlled VCRs. Some functions of your particular equipment may not be controlled by this remote. In such cases, use the original remote control for your equipment.

BATTERY INSTALLATION

Batteries are provided, but must be installed before using the remote control. When it no longer functions normally, or if it loses memory, replace the batteries with two high-quality, alkaline, size AA batteries. Match plus with plus (+ with +), minus with minus (– with –) in the battery compartment.

Unless your equipment responds to the factory preset code, you will need to reprogram the remote after you replace the batteries.

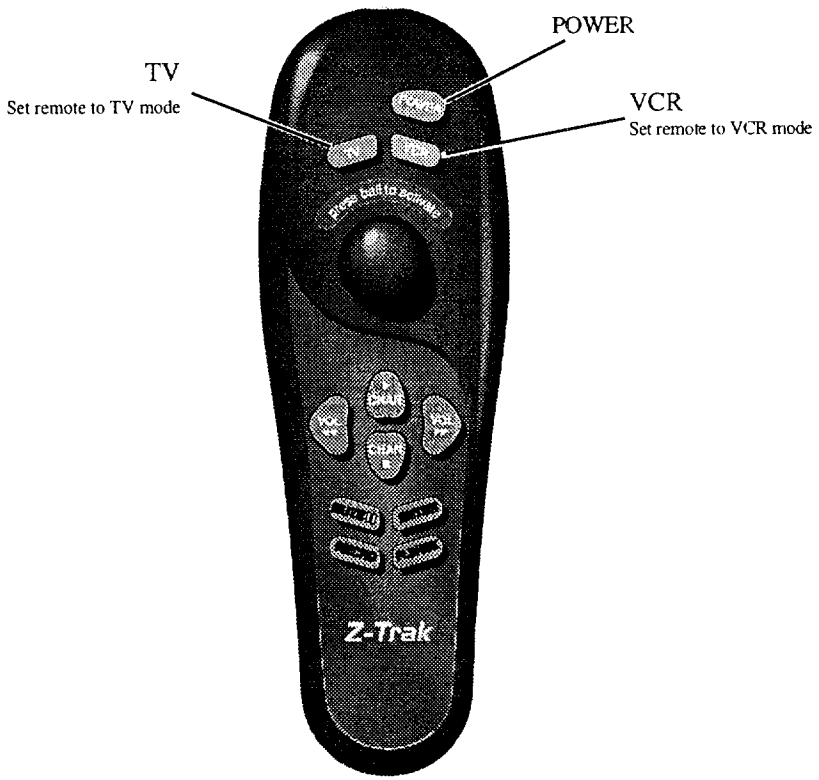


NOTES:

- Do not place heavy objects on top of the remote control keys. Prolonged unintentional operation of the remote shortens battery life.
- Remove the batteries if the remote control will not be used for a month or more. **THE MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY BATTERY LEAKAGE.**

CHOOSING OPERATING MODE

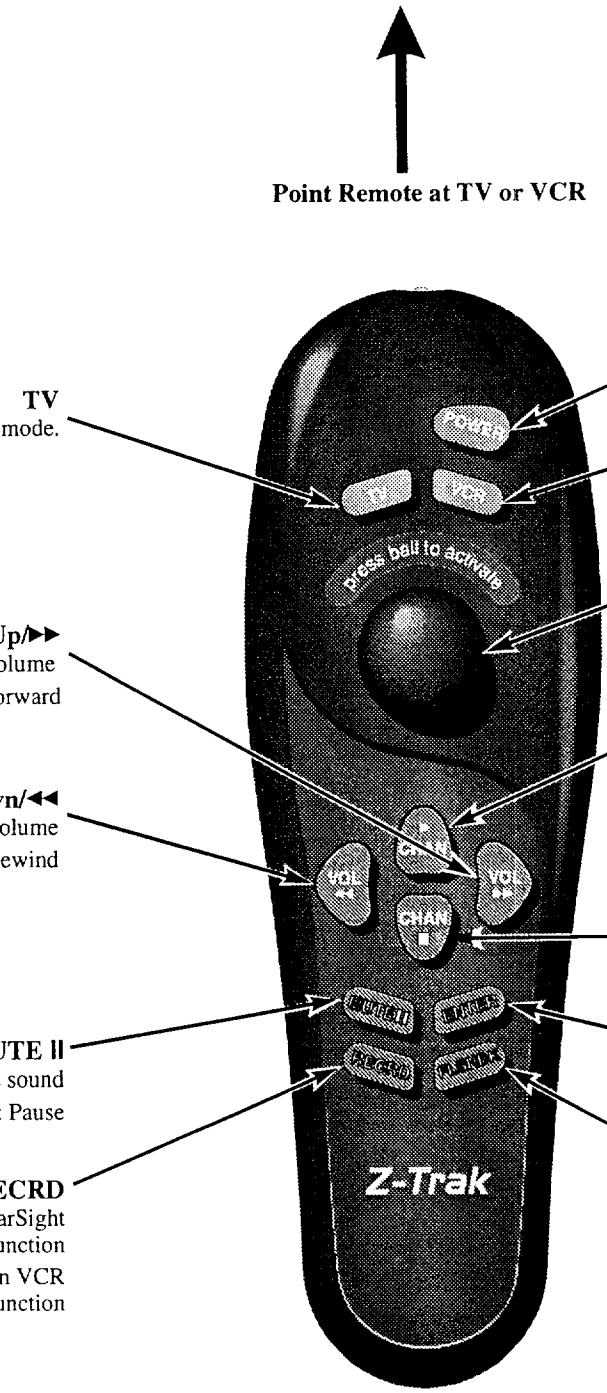
To control your TV or VCR with this remote, you must first choose the mode of operation. Press the desired mode key for TV or VCR.. Press **TV** to return to TV mode.



Z-Trak Remote

REMOTE CONTROL Z-TRAK

BASIC OPERATIONS



Z-Trak Remote

PROGRAMMING YOUR Z-TRAK REMOTE

Your Z-Trak remote is already programmed to work with most Zenith VCR's. If you have a non-Zenith VCR, or if your Zenith VCR does not respond to your Z-Trak remote, you will need to program your remote as follows:

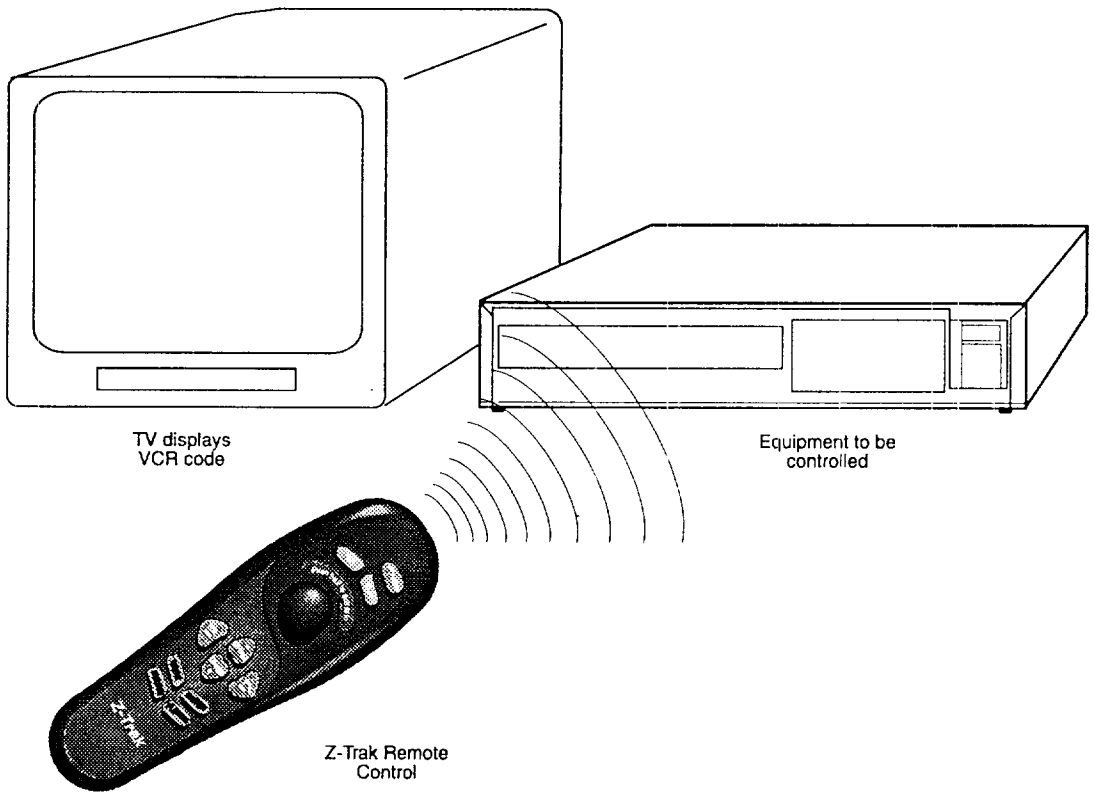
1. Refer to the table of VCR Codes, in this section of the guide. Locate the 3-digit number which corresponds to your brand of VCR.
2. Make sure your TV is turned on.
3. While pointing the Z-Trak remote towards your Zenith TV, simultaneously hold the MUTE and ENTER keys until the TV displays a VCR "Setup" screen (about three seconds). The VCR key will also light upon entering the Programming mode.
4. Notice that the current VCR brand code (initially "201") is displayed on the TV screen. Roll the trackball up or down (or use CHAN Up/Down) to choose the 3-digit number of your VCR.
5. When the correct 3-digit number is displayed on the TV screen, use the POWER key to make sure that your VCR turns on and off properly. If it does not respond, refer to the VCR Codes table to select a different 3-digit number.
6. If your VCR turns on and off successfully, press the trackball (or ENTER) to save the current VCR brand code. The setup screen will disappear from the TV. Also, the VCR key will flash 3 times upon exiting the Programming mode. The remote will be in the VCR mode.
7. Now try other controls on your VCR, such as Play, Rewind, etc., to make sure that the correct VCR brand code number was selected. (If not, repeat steps 3 to 7.)
8. The MUTE key can be pressed at any time to cancel Programming mode. The original VCR brand code will remain unchanged.

   NOTE: Only the VCR mode can be programmed.
9. The Z-Trak remote will exit Programming mode automatically after 60 seconds if no key press or trackball movement is detected.

AUTO FIND OPTION

If you have tried all 3-digit codes listed for your VCR manufacturer, and none of them operate your VCR, you will need to try "AutoFind" to see if a different code will operate your VCR:

1. Make sure your VCR is turned on.
2. Simultaneously hold the MUTE and ENTER keys until the VCR key lights up (about three seconds).



3. Point the Z-Trak remote towards your VCR. Press CHAN UP followed by POWER. If your VCR did not turn off, keep repeating CHAN UP followed by POWER until the VCR responds.
4. If your VCR turned off, press ENTER to save the code. The VCR button will flash three times after ENTER is pressed.
5. Now try other controls on your VCR, such as Play, Rewind, etc., to make sure that the correct VCR brand code number was selected. (If not, repeat steps 2 to 4.)
6. The MUTE key can be pressed at any time to cancel AutoFind mode. The original VCR brand code will remain unchanged.
7. The remote will exit AutoFind mode automatically after 60 seconds if no key press or trackball movement is detected.

NOTE:

- To view the code that was programmed, perform Steps 2 and 3 of "Programming Your Z-Trak Remote."

VCR CODES BY BRAND NAME

VCRS	
Admiral	208, 261
Adventura	231
Aiwa	231
Akai	223, 238, 241
Audio Dynamics	202, 218
Bell & Howell	206, 247
Broksonic	221, 226, 250, 255
Canon	214
Citizen	209
Craig	212
Curtis Mathes	214, 259
Daewoo	244, 246, 248, 254
Daytron	236, 246
DBX	202, 218
Emerson	203, 221, 223, 226, 233, 235, 243, 250
Fisher	211, 212, 213, 247
Funai	231
General Electric	214, 216, 220
Goldstar	209
Go Video	256, 262, 263
Hitachi	215, 257
Instant Replay	214, 227
J.C. Penney	214, 215, 218, 227
JVC	202, 225, 258
Kenwood	202
Logik	239
LXI	209, 231
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Multi Tech	239
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Pioneer	210, 215
Portland	246
Pro Scan	216, 260
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Realistic	206, 208, 212, 214, 231
Samsung	220, 230
Sansui	239
Sanyo	206, 212, 247
Scott	204, 205, 233, 243
Sears	206, 209,211, 212, 215
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Sony	217, 232, 237
Sylvania	207, 214, 227
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Tashiko	209
Tatung	202
Teac	202, 231
Teknika	234
Toshiba	205, 215
Vector Research	204, 218
Yamaha	202, 218
Zenith	201, 224, 225, 229, 237
XR1000	239

CLEANING THE TRACKBALL

To keep the Z-Trak remote functioning properly, it is necessary to occasionally clean the TRACKBALL device. To do this:

1. Use a solution of mild dish washing detergent and water.
2. Moisten a clean soft cloth with the solution and lay the cloth flat on a table.
3. Turn the Z-Trak remote upside down and gently roll the TRACKBALL on the cloth.
4. Allow the remote to air-dry before using it again.

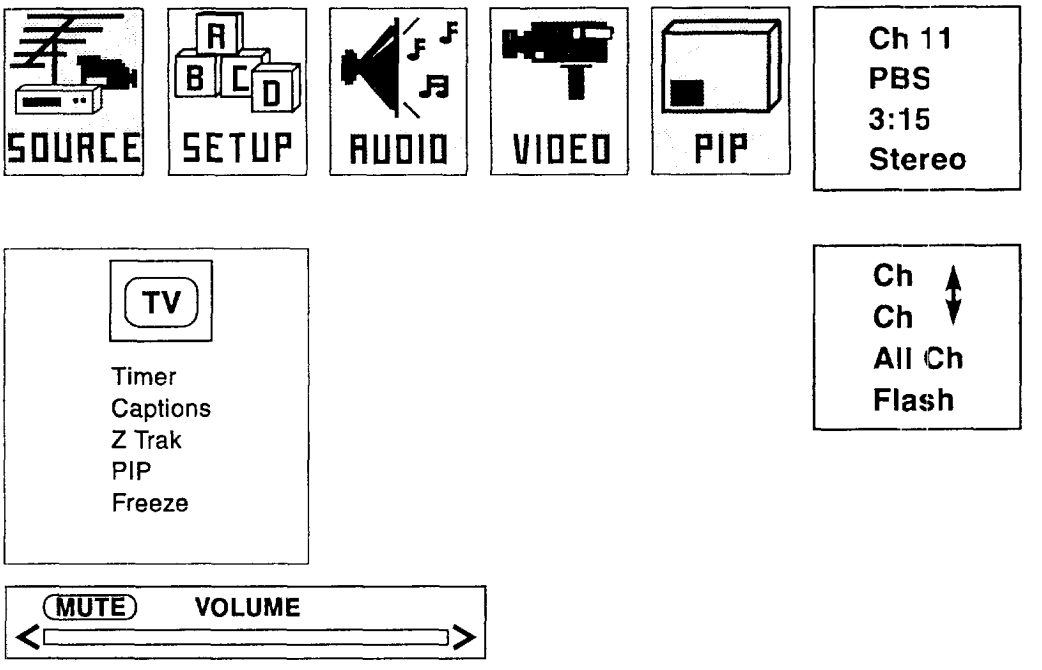
CAUTION:

- DO NOT USE ALCOHOL OR OTHER CLEANING FLUIDS TO CLEAN THE TRACKBALL AS THESE MAY DAMAGE THE REMOTE.

QUICK REFERENCE TO MENUS: Z-TRAK

AVAILABLE MENUS

Your TV is **icon** and **menu** operated. In other words, an icon is selected at the top of the TV screen and a menu of adjustment options appears.



BASIC MENU OPERATION

1. Make sure that your Z-Trak remote is in the TV mode (rather than VCR mode), by pressing the TV button on the top.

2. Press the trackball. A small square, known as the *pointer*, appears in the middle of the screen. It should be *blue*, indicating TV mode. If you have StarSight, the pointer may be *red*, indicating StarSight mode. The next step tells you how to switch modes.

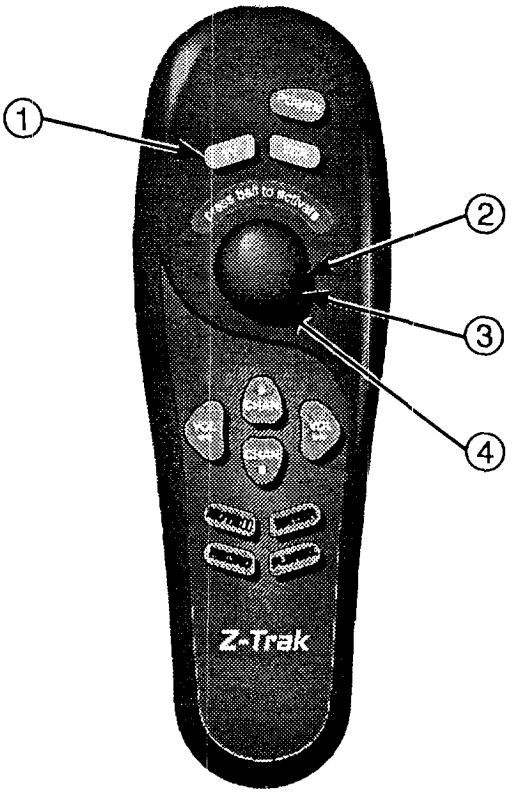
3. The pointer is moved by rolling the trackball up, down, left, and right. Move the pointer to the left edge of the screen. A column of TV options appears. The icon at the top indicates which mode is active — TV or StarSight (if connected). A TV icon represents TV mode; a circle with a star represents StarSight mode. You can switch between the two modes by locating the pointer on the icon and pressing the trackball. The icon switches and the pointer changes color.

   Set the mode to TV (a blue pointer).

   The various menus are not all visible on the screen simultaneously. Each menu appears when you move the pointer on top of it.

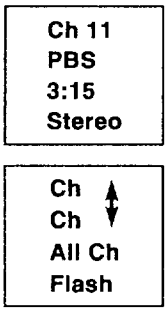
   NOTE: Whenever the text reads "point to the option", it means "position the pointer on the option".

4. To make the pointer disappear, move it to the center of the screen and press the trackball.



QUICK REFERENCE TO MENUS: Z-TRAK

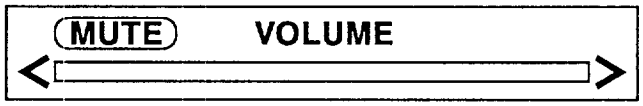
CHANNEL ICONS



The Channel/Time display accompanies the Channel Icons Menu.

▫ **Chan ↑ and ↓**	Channel up or down; equivalent to CHAN Up or Down on the remote. Point to the arrow and press.
▫ **All Ch**	Gives you a complete listing of all channels on the screen. Channels currently stored in memory (via Auto Program) are shown in color. However, you can tune to any channel on the list. Point and press on a channel; the program on that channel is shown in the PIP, along with the channel label. To tune to that channel, press on it again.
▫ **Flash**	Tunes the TV to the last channel viewed. The FLSHBK button on the Z-Trak remote performs the same function.

VOLUME CONTROL



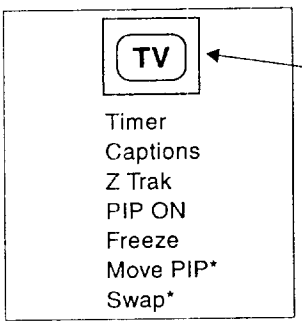
Move the pointer to the bottom of the screen to view the Volume Control.

Point to the desired volume level on the slider bar, and press the trackball. The volume level automatically jumps to the new value. Or, press on the arrows to gradually raise or lower the volume.

Point and press on MUTE to turn the sound off completely.

You may also control volume and mute using the VOL Up/Down and MUTE buttons on the Z-Trak remote.

TV OPTIONS MENU



The TV icon will only appear for Ant/Cable 1 Source selection.

*Not always displayed.
See table below

MENU OPERATION

Move the pointer to the left of the screen to view the TV Options Menu.

Point to the desired option. **(Its status is shown at the bottom of the screen.)**

Press the trackball to select the option. See the table below.

Move pointer off the menu to remove it from view.

▫ **Timer**	The sleep timer allows you to program the TV to automatically turn itself off after a period from 15 minutes up to 4 hours. To activate this feature and change the interval, press the trackball while pointing at Timer.
▫ **Captions**	By pressing on this option, you can select Caption 1, Caption 2, Caption 3, Caption 4 or OFF.
▫ **Z-Trak**	This determines how fast the pointer moves as you roll the trackball. By pressing on this option, you can set this response speed to Slow, Medium, or Fast, according to your preference.
▫ **PIP ON (or OFF)**	This turns the PIP (Picture-In-Picture) on or off. When you first turn the PIP on, the options menu disappears and the pointer moves into the PIP. You can then move the PIP around the screen, using the trackball. Pressing the trackball then locks the PIP in place and removes the pointer.
▫ **Freeze**	Pressing on this option "freezes" the action of the picture in the PIP inset. See PIP Operation section for details.
▫ **Move PIP**	This option only appears when the PIP is on. Pressing on it causes the options list to disappear, and the pointer appears in the PIP. You can then move the PIP around the screen with the trackball. Pressing again locks the PIP in its new location and returns the TV to normal viewing.
▫ **Swap**	This option only appears when the PIP is on and the PIP source is different from the main source. This option "swaps" the main picture with the picture in the PIP inset.

SOURCE MENU

Main Source	PIP Source
StarSight	StarSight
Ant/Cable 2	
Video 1	Video 1
Video 2	Video 2
S-Video 1	S-Video 1
Video 3	Video 3
S-Video 2	S-Video 2
EXIT	

Video 3 and S-Video 2 are source options for some TV models only.

A PIP inset appears while the Source icon is selected to show the effect of choosing a PIP source.

If the PIP Source is changed, the PIP inset will remain on the screen after you exit from menu operations.

MENU OPERATION

Move the pointer to the top left of the screen and point to the SOURCE icon. Press the trackball.

Point to the desired Main or PIP source. Press the trackball. Or, press repeatedly on **Main Source** or **PIP Source** to toggle through your source options

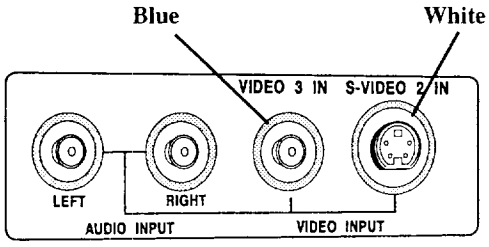
Point to "EXIT" and press the trackball to remove the menu from view.

SOURCE SELECTION

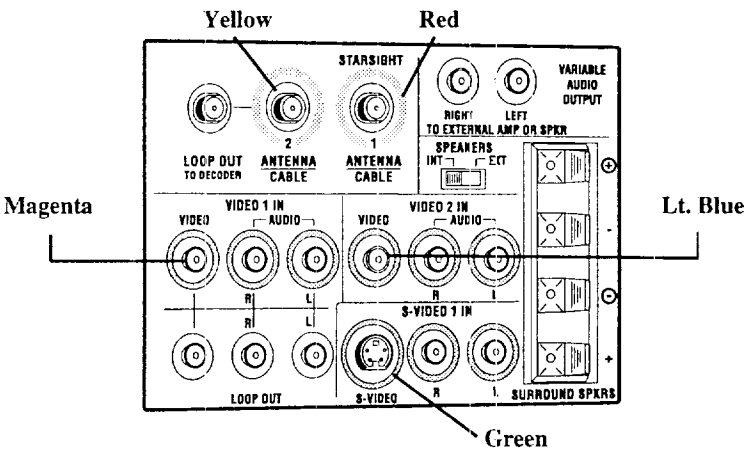
❑ **ANT/CABLE 1 or 2**	Routes the antenna or cable-TV source to the TV for viewing. You see program material from whichever signal source is connected to the ANT/CABLE 1 or 2 jack. (If the signal is from a VCR or a cable box, tune the TV to either channel 3 or 4.)
❑ **VIDEO 1, 2 or 3**	Routes the audio and video from an A/V source (such as a VCR or a video disc player) to the TV for viewing. The source must be connected to the corresponding VIDEO 1, 2 or 3 IN jacks.
❑ **S-VIDEO 1 or 2**	Routes the audio and video from an auxiliary Super-VHS video source (such as a VCR or a video disc player) to the TV for viewing. The source must be connected to the corresponding S-VIDEO 1 or 2 IN jacks.

Refer to the "Standard Connections for Your TV" section to make the proper equipment connections to the TV. For information about PIP sources, refer to the "PIP Operation" section.

SOURCE IDENTIFICATION



Auxiliary A/V Jacks (Some TV Models)

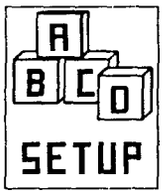


Connection Center on Back of TV

NOTE:

❑ The color of the Channel/Time display corresponds to the color rings around the connectors of the jack panels. For example, the Channel/Time display will be Red if you are watching a program on Ant/Cable 1 source.

SETUP MENU



Auto Program
Ch. Add/Del
Ch. Labels
Source ID
Clock Set
Timer Setup
Parental Ctl
Caption/Text
Background
StarSight

Press To Program

Source ID
Clock Set
Timer Setup
Parental Ctl
Caption/Text
Background

Press To Label Sources

While Video or Super-Video Source is Chosen

MENU OPERATION

Move the pointer to the top left of the screen and point to the SETUP icon. Press the trackball.

Point and press on the desired option to highlight it.

Press on the option again to access it.

Point and press on EXIT or move the pointer off the menu and press the trackball to remove the menu from view.

▫ **Auto Program**	Finds all active channels and stores them in the TV's memory for use by CHANNEL up/down. Follow the on-screen directions. Auto Program runs on the currently selected Ant/Cable source.
▫ **Ch. (Channel) Add/Del**	Edits the channels found by Auto Program to create your own personal list of favorite channels. See the information following this chart for more details.
▫ **Ch. (Channel) Labels**	Assigns a network/station label, name or call letters to specified channels. For example, if you choose the label "ABC" for channel 9, then "ABC" will appear in the Channel/Time display whenever channel 9 is selected. See the information following this chart for more details.
▫ **Source ID**	Assigns a descriptive "name" to the input sources. For example, the Video 1 source may be named VCR. "VCR" will now appear in the Source Menu as a reminder that your VCR is connected to the Video 1 input jacks.
▫ **Clock Set**	Sets the clock in the TV to the correct time. Point and press on the option to highlight it. In the status bar at the bottom, point and press on either the hours or minutes to adjust them. Point and press on **AM** or **PM** to toggle them. Move pointer away from menu to remove it from view.
▫ **Timer Setup**	Sets the TV's SLEEP TIMER and ON/OFF TIMER features. See the information following this chart for more details.
▫ **Parental Ctl. (Control)**	Use this feature to block viewing of any undesirable channels or an entire input video source. See the information following this chart for more details.
▫ **Caption/Text**	Displays closed captioning or informational text when available on the selected channel. Options are: **OFF, CAPTION 1, CAPTION 2, CAPTION 3, CAPTION 4, TEXT 1, TEXT 2, TEXT 3,** or **TEXT 4**. See the information following this chart for more details.
▫ **Background**	Adds or removes a solid-color background behind the on-screen menus. Highlight and press on the option, and then press to toggle the background on and off.
▫ **StarSight (Ant/Cable 1 Source selection only)**	Begins the StarSight setup procedure. Refer to the StarSight section of this guide for details.

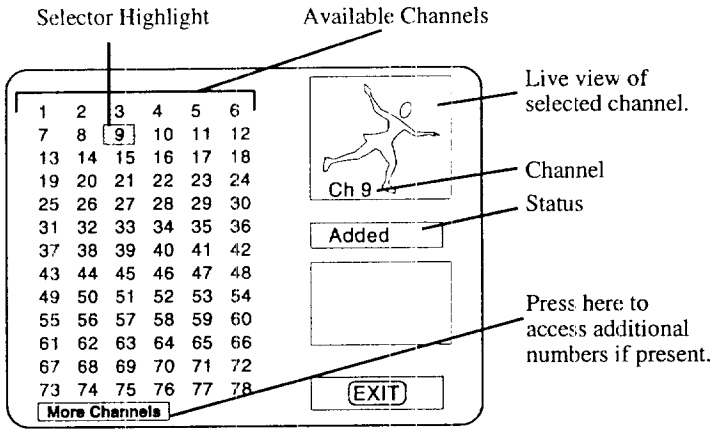
continued on next page

USING CHANNEL ADD/DEL

Add Channels to Scan	Delete Channels from Scan
❑ Select **Ch. Add/Del.**	❑ Select **Ch. Add/Delete**.
❑ Point to the desired channel.	❑ Point to the desired channel.
❑ Press trackball until channel status shows **Added**.	❑ Press trackball until channel status shows **Deleted**.
Press on EXIT to tune to the channel pointed to by the highlight.	

NOTE:

- ❑ Ch. Add/Del can only be used with ANT/CABLE 1 or 2 Source selection.
- ❑ The Audio of deleted channels is muted.



Available channels are:

Broadcast Band — VHF 2 to 13, UHF 14 to 83

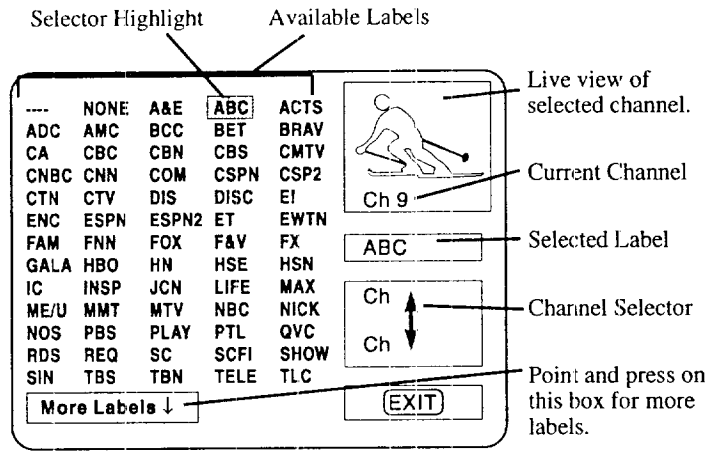
Cable-TV Band — 1 to 139

USING CHANNEL LABELS

Assign Labels	Remove/Prevent Labels
❑ Select **Ch. Labels.**	❑ Select **Ch. Labels**.
❑ Select a channel by pointing and pressing **Ch** ↑ or ↓.	❑ Select a channel by pointing and pressing **Ch** ↑ or ↓.
❑ Point and press on the desired label.	❑ Point and press on the four dashes or NONE.
❑ Press on **EXIT** to return to normal viewing.	❑ Press on **EXIT** to return to normal viewing.

NOTE:

- ❑ Ch. Labels can only be used with ANT/CABLE 1 or 2 Source selection.
- ❑ Selecting the four dashes (- - - -) specifies no channel label. Or, selecting **NONE** blocks the station or network labels that are transmitted by some television stations.

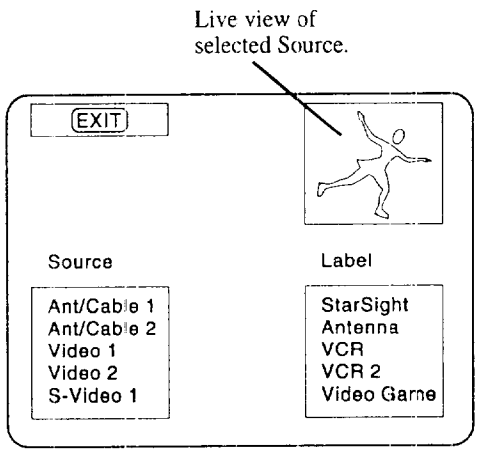


USING SOURCE ID

Assign Names To Your Sources
❑ Select **Source ID**.
❑ Point to the desired "Source/Label" line and press to highlight it.
❑ Press repeatedy to scroll through the available labels.
❑ Press on **EXIT** to return to normal viewing.

VIDEO GAMES AND OTHER FIXED PATTERN DISPLAY CAUTION

If you use your TV for video games or other fixed displays, avoid setting the BRIGHTNESS control for an excessively bright picture. A bright, fixed pattern, if used for long periods of time, can result in a permanent imprint on the TV picture tube. You can reduce this possibility by alternating the use of the fixed pattern display with normal TV picture viewing, by turning down the CONTRAST control for sustained fixed pattern use, and by turning off the fixed pattern display when not in use.



Optional names for ANT/CABLE 1 or 2 Sources are:

——, Disabled, Antenna, Cable, Cable Box, Satellite, VCR, StarSight (Ant/ Cable 1 only).

Optional names for VIDEO Sources are:

——, Disabled, VCR, Camcorder, Video Game, Laser Disc, Audio Only, VCR2, Satellite. (Some models only.)

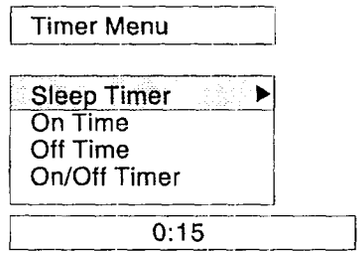
NOTE:

- ❑ Disabling a Source prevents it from appearing in the Source Menu.

TIMER SETUP: Sleep Timer

The **Sleep Timer** programs the TV to automatically turn itself off after a period from 15 minutes up to 4 hours.

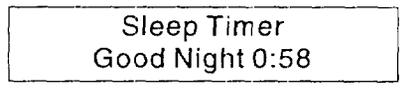
From Setup Menu	Direct Access
❑ Make sure the TV's clock is set.	❑ Move pointer to left of screen to view the TV Option Menu.
❑ Select **Timer Setup** to view the **Timer Menu**.	❑ Point and press on Timer repeatedly to set the period of time the TV will remain on.
❑ Press on Sleep Timer repeatedly to set the period of time the TV will remain on.	❑ Move pointer away from menu to remove it from view.
❑ One minute before the TV turns off, the GOOD NIGHT display appears on the screen. At this time you have a choice of the following two actions.	
❑ Do nothing. The GOOD NIGHT display remains on the screen. The TV will turn off in one minute.	
❑ Delay the turn-off by resetting the timer with a new time period.	



Timer Set to Turn TV OFF in 15 Minutes

NOTE:

- To cancel the Sleep Timer, turn off the TV or return to the Timer feature and set it to OFF.
- As the Good Night display counts down the final 60 seconds, the audio and video of the TV also "dim" for a soft, discreet turn-off.

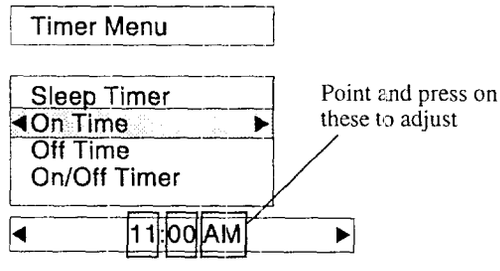


"Good Night" Display Appears 60 Seconds Before

ON/OFF TIMER

The **On/Off Timer** programs the TV to automatically turn itself on at a specific time, then turn itself off at another time.

Set On/Off Timer
❑ Make sure clock is set to **Timer Setup**.
❑ Select **On Time**. In the Status bar at the bottom, point and press on the hours and minutes to adjust them to the time you want the TV to turn itself ON. Point and press on AM (or PM) to toggle them.
❑ Select **On Time**. In the Status bar at the bottom, point and press on the hours and minutes to adjust them to the time you want the TV to turn itself OFF. Point and press on AM (or PM) to toggle them. Or, press on the arrows to move the time forward or backward.
❑ Select ON/OFF Timer and press on it to turn the timer ON (or OFF).

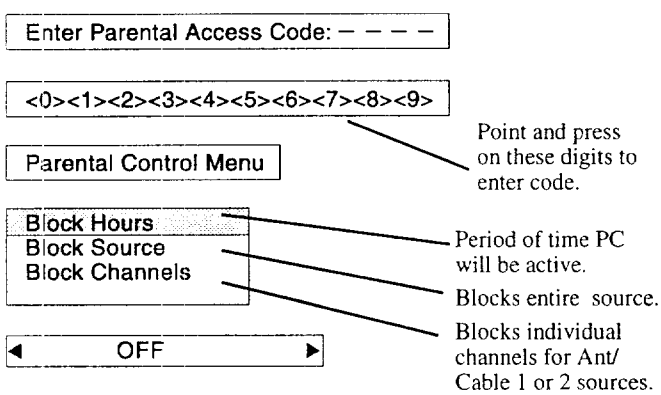


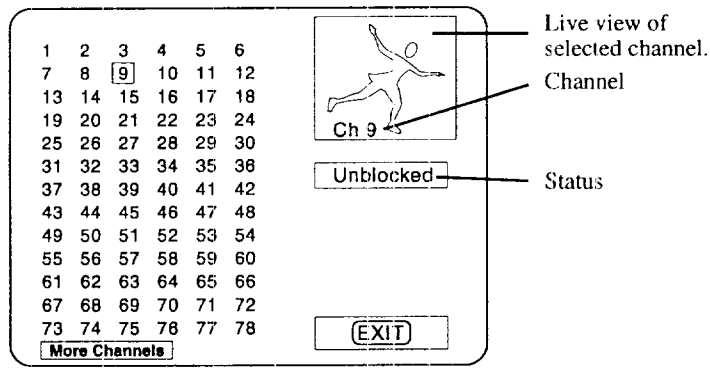
On/Off Timer Set to Turn TV ON at 11:00 am

NOTE:

- A time must be set for either On Time or Off Time in order to turn the timer ON.

USING PARENTAL CONTROL (PC)





Block Entire Source	Block Individual Channels	Re-enter PC While it is Activated
❑ Select **Parental Ctl.**	❑ Select **Parental Ctl.**	❑ Select **Parental Ctl.**
❑ Select **Block Hours** and press on the arrow to set the length of time PC will be active: OFF, 12, 24, 48, or 72 hours.	❑ Select **Block Hours** and press on the arrow to set the length of time PC will be active: OFF, 12, 24, 48, or 72 hours.	❑ Enter your access code when prompted to do so.
❑ Set **Block Source**. Move the pointer to the status bar at the bottom and press on "unblocked" to change it to "blocked."	❑ DO NOTHING WITH **BLOCK SOURCE**.	❑ Make your changes (block more channels, reset the time period, etc.)
❑ To block other sources, move the pointer to the left side of the status bar and press to select another source. Move the pointer back to the right side and press to show "blocked."	❑ Select **Block Channels**. ❑ For each channel to be blocked, move the pointer to the number and press the trackball twice.	❑ Point and press on Exit.
❑ Point and press on Exit and enter any 4-number access code by pressing on the individual numbers. You will be asked to verify the code by entering it again.	❑ Point and press on Exit twice and enter a 4-number access code by pressing on the individual numbers.	❑ You will be prompted to "change code if desired." Either enter a new 4-number code or do nothing to retain the current code.
REMEMBER YOUR ACCESS CODE! TO RE-ACCESS PARENTAL CONTROL WHILE IT IS ACTIVATED, YOU MUST ENTER THIS NUMBER. Otherwise, simply allow the specified period of time to elapse.		

NOTE:

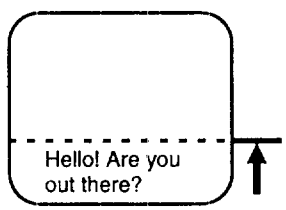
❑ Do not unplug the TV in an attempt to deactivate the Parental Control. This only resets Parental Control.

USING CAPTIONS

Activating Captions
❑ Highlight and press **Caption/Text**.
❑ Press the trackball repeatedly to toggle through the nine choices: Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4.

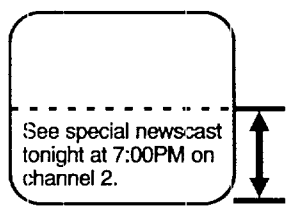
NOTE:

❑ At present, very few TV programs or video tapes offer text captioning for any option other than **CAPTION 1**. Therefore, **CAPTION 1** is the only recommended choice, unless you know that a specific program is providing captioning using one of the other selections.



Typical Captions Display

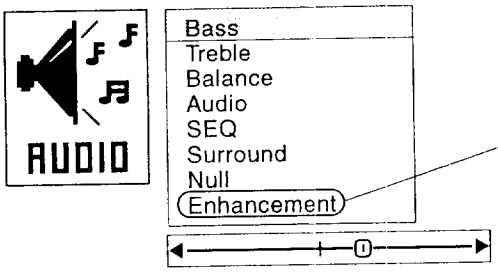
Captions may be shown anywhere on the screen.



Typical Text Display

Fixed size text window fills lower half of screen.

AUDIO MENU



For televisions having the Dolby **Pro Logic** audio system, the Enhancement option replaces the SEQ, Surround, and Null options.

MENU OPERATION

Move the pointer to the top left of the screen and point to the AUDIO icon. Press the trackball.

Press on the option or on the slider bar to adjust the option.

Point and press on the desired option to highlight it.

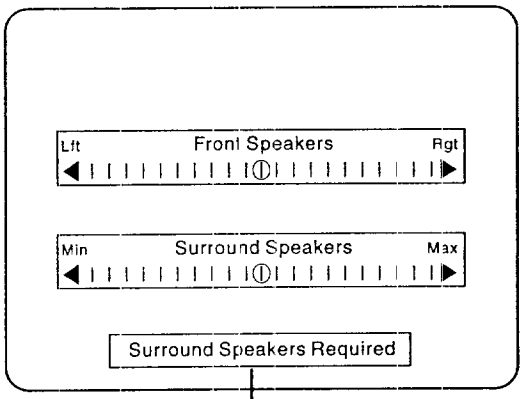
Move the pointer off the menu and press the trackball to remove the menu from view.

❑ **Bass**	Adjusts the BASS (low-frequency) level.
❑ **Treble**	Adjusts the TREBLE (high-frequency) level.
❑ **Balance**	Adjusts the balance of sound between the two speakers.
❑ **Audio** (SAP is not an option for the video sources. Audio signals received from a video source are assumed to be monaural or stereo.)	Allows you to select STEREO, MONO or 2ND AUDIO/SAP operation. After highlighting the option, press to toggle through the choices: STEREO: Directs the sound to the Left and Right speakers as supplied by the program. Stereo is the recommended choice: The TV switches automatically between the STEREO and MONO modes depending on the type of signal being received. MONO: Directs the same sound to both Left and Right speakers, even if the program being received is in stereo. 2ND AUDIO/ SAP: Directs the sound for the Second Audio Program (second language) to both the Left and Right speakers. SAP sound is always monaural. If SAP is selected, you hear the SAP (usually a second language). When the SAP broadcast ends, the TV switches automatically (defaults) to the type of signal being received, STEREO or MONO. The TV switches back to 2ND AUDIO/SAP when the SAP broadcast resumes.
❑ **SEQ** (Spacial Equalization)	Produces a spacious and more tonal sound. SEQ is only available while a stereo signal is being received and processed by the TV.
❑ **Surround**	Adjusts the level of Surround Sound provided to the optional surround sound speakers. Surround Sound is only available if a surround-encoded stereo signal is being received and STEREO is either selected using the AUDIO option or selected by default.
❑ **Null**	Used to Minimize front channel sound from coming through the surround speakers. To adjust the Null, while watching a Dolby Surround-encoded video tape, select **Null** and use the Left/Right keys to remove any dialogue that may be heard from the surround speakers.
❑ **Enhancement** (Dolby Pro Logic audio systems only)	Provides a list of options for enhancing the TV's audio. The options shown depend on what is selected for the AUDIO option above. See the information following this chart for more details.
❑ Mono or 2nd Audio/SAP Selected:	Your audio Enhancement options are **Off** and **Pseudo Stereo**. Off specifies that no Enhancement is activated. Pseudo Stereo enhances monaural audio to emulate stereo-like sound.
❑ Stereo Selected:	Your audio Enhancement options are **Off**, **Concert Hall**, **Theater**, **Night Club**, **Stadium**, **Dolby Pro Logic-Normal** and **Dolby Pro Logic-Phantom**. Off specifies that no Enhancement is activated. For the other options, see "Stereo Operation," and "Dolby Pro Logic Operation."

NOTE:

❑ All adjustments on the AUDIO MENU are optional. You do not have to use these features in order to use your TV.

Stereo Operation
❑ Select **Stereo** as the Audio option.
❑ Select a desired Enhancement: **Concert Hall**, **Theater**, **Night Club** or **Stadium**, or set Enhancement to **Off**.
❑ Adjust Bass and Treble for the most pleasing sound.
❑ Select Balance to view the speaker balance screen.
❑ Point and press on the speakers you want to adjust; either the front speakers (those in the TV) or the optional surround sound speakers.
❑ Press on the arrows or on a specific point on the slider bar to adjust the selected speakers.

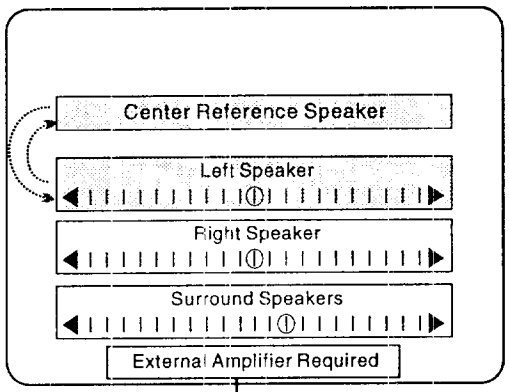


Message appears when adjusting Surround Sound.

SPEAKER BALANCE

Dolby Pro Logic-Normal	Dolby Pro Logic-Phantom
❑ Select Dolby Pro Logic-Normal as the **Enhancement**.	❑ Select Dolby Pro Logic Phantom as the **Enhancement**.
❑ Turn on the external amplifier and set is volume to approximately the same volume as the TV.	❑ Adjust the Bass and Treble for the most pleasing sound.
❑ Bass and Treble **can not** be adjusted for Pro Logic-Normal.	❑ Select Balance to view the Pro Logic balance screen.
❑ Select Balance to view the Pro Logic balance screen.	❑ Point and press on the speaker (Left, Right or Surround) you want to adjust.
	❑ A highlight box and an audible "hissing" sound will "bounce" between the selected speaker and the **Center Reference**.
❑ Point and press on the speaker (Left, Right or Surround) you want to adjust.	❑ Point and press on the arrows or on a specific point on the slider bar to set the volume of the "hissing" (for the selected speaker) to approximately the same level as the "hissing" of the **Center Reference**. Do this for each speaker.
❑ A highlight box and an audible "hissing" sound will "bounce" between the selected speaker and the **Center Reference**.	
❑ Press on the arrows or on a specific point on the slider bar to set the volume of the "hissing" (for the selected speaker) to approximately the same level as the "hissing" of the **Center Reference**. Do this for each speaker.	

Highlight box "bounces" between selected speaker and Center Reference.



Message appears only for Pro Logic Normal selection.

STEREO SOUND BALANCE

Point and press on slider bar to adjust balance.

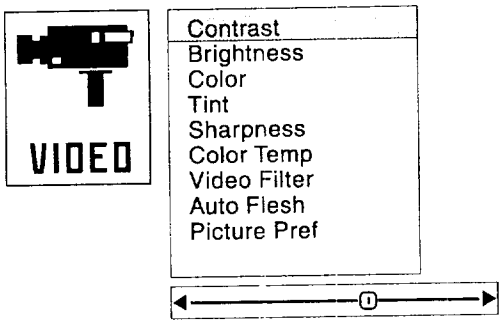
PRO LOGIC BALANCE

Point and press on slider bar to adjust balance.

NOTES:

- To fully appreciate the quality of sound provided by the Dolby Pro Logic audio system, make sure the speakers are balanced as described above.
- An external amplifier **must** be connected to use Dolby Pro Logic-**Normal** audio enhancement.
- Optional Surround speakers must be connected to hear Surround Sound.
- While Pro Logic-Normal is selected, **Bass** and **Treble** adjustments on the TV are not possible. These must be adjusted using the external amplifier.

VIDEO MENU



MENU OPERATION

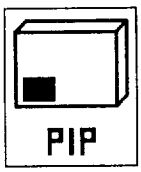
1. Move the pointer to the top left of the screen and point to the VIDEO icon. Press the trackball.
2. Point and press on the desired option to highlight it.
3. Press on the option or on the slider bar to adjust the option.
4. Move the pointer off the menu and press the trackball to remove the menu from view.

❑ **Contrast**	Adjusts the overall contrast and color level of the picture.
❑ **Brightness**	Adjusts the brightness level of black areas in the picture.
❑ **Color**	Adjusts the intensity of the colors in the picture.
❑ **Tint**	Adjusts the color of the flesh tones to more Green or more Red.
❑ **Sharpness**	Adjusts the clarity of the edges around objects for the clearest picture quality.
❑ **Color Temp (Temperature)**	Changes the "color temperature" or picture white balance between cooler natural whites and warmer (red) colors.
❑ **Video Filter**	Reduces video "noise" or interference in dark picture areas resulting in clearer overall pictures.
❑ **Auto Flesh**	Automatically maintains natural skin tones under changing scene and video source conditions.
❑ **Picture Pref. (Preference)**	Lets you decide if you want to use your own CUSTOM video settings, the factory PRESET video settings or the factory preset THEATER video settings. The THEATER settings are preset to provide optimum visual performance in low light "theater-like" conditions

NOTES:

- ❑ All adjustments on the Video Menu are optional. It is not necessary to adjust these features in order to operate the TV.
- ❑ Any adjustments made to the Video Menu settings while Picture Pref. is in PRESET or THEATER mode will automatically store the current settings as the CUSTOM setting.

PIP MENU



Ch. Guide
Ch. Review
PIP Color
PIP Tint
PIP Size

Press To View

Selecting the PIP Menu does not "activate" PIP. However, a PIP inset will appear during menu operation to show the effect of any setting changes.

MENU OPERATION

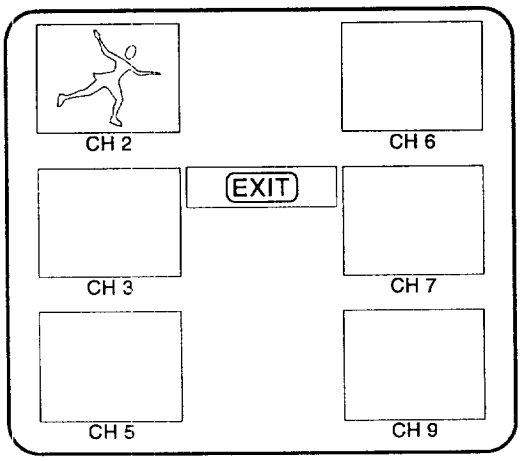
Move the pointer to the top left of the screen and point to the PIP icon. Press the trackball.

Point and press the desired option to highlight it.

Press on the option or on the slider bar to adjust the option.

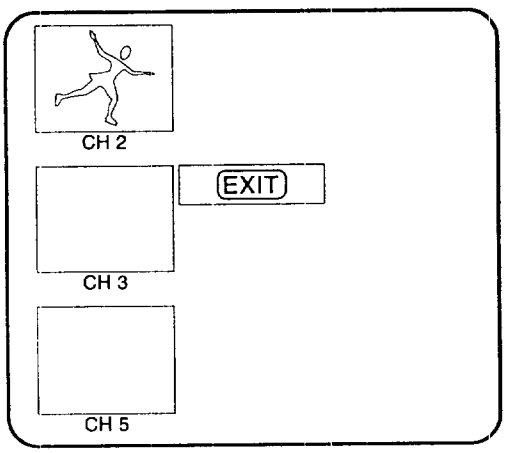
Move the pointer off the menu and press the trackball to remove the menu from view.

▫ **Ch. Guide**	Provides a visual review of all channels in the channel scan memory for the currently selected ANT/CABLE source. Press on a PIP inset to tune to the channel shown in the inset.
▫ **Ch. Review**	Provides a visual review of the last three (3) channels tuned on the TV. Press on a PIP inset to tune to the channel shown in the inset.
▫ **PIP Color**	Adjusts the intensity of the colors in the PIP inset. Point and press on the arrows or slider bar.
▫ **PIP Tint**	Adjusts the color of the flesh tones in the PIP inset to more Green or more Red. Point and press on the arrows or slider bar.
▫ **PIP Size**	Adjusts the size of the PIP inset. Choose between small or large.



Ch. Guide Screen

Shows 3-second live displays of all channels saved in the channel scan sequence.



Ch. Review Screen

Shows 3-second live displays of the last 3 channels viewed on the TV.

MAINTENANCE AND TROUBLESHOOTING

CARING FOR YOUR TV

Your TV will look better, have a longer life and perform better if you care for it properly.

First check to see that the TV is off. For added safety, unplug the TV from the power outlet.

NOTE:

- If you unplug your TV, you will have to reset the clock to the current time.

CABINET CARE

Non-Wood Cabinet or Cabinet Components Moisten a soft cloth with a mild soap solution or Ivory dishwashing detergent. Wipe the surface with a damp cloth. Then rinse the cloth in clean water and wipe the surface again. Allow the TV to air-dry before turning it on.

Wood Cabinets or Cabinet Components Use any good furniture cleaner and polish. Regular care will help preserve the finish.

PICTURE GLASS CLEANING

The picture tube face attracts dust particles and should be cleaned regularly. To clean the face, spray a small amount of glass cleaner on a cleaning cloth and wipe the picture tube glass face until clean. Repeat if necessary.

To delay new dust accumulation, wet a soft cloth in lukewarm water in which a little fabric softener or Ivory dishwashing detergent has been mixed. Wring the cloth almost dry. Wipe the glass face. Make sure no drops of moisture are squeezed onto the glass. Do not wipe the glass dry. Allow the glass to air-dry before you turn the TV on again.

EXTENDED ABSENCE

Before an extended absence (such as a vacation) you may want to unplug the power cord from the electrical wall outlet. This will protect the TV from possible damage from lightning or power line surges. If you have an outdoor antenna, you may also want to disconnect the antenna lead-in wires on the back of the TV.

NOTE:

- If you unplug your TV, you will have to reset the clock to the current time.

TV PICTURE INTERFERENCE

Your TV picture may be affected by interference caused by one or a number of factors. These include:

Speckled or Streaked Picture Can be caused by nearby automobile ignition, electrical appliances, etc. This is most noticeable in weak signal areas.

Snow in Picture Caused by insufficient signal. Usually caused by the TV being located too far from the TV station or by an improper antenna installation.

Ghosts or Reflections Caused by signals being reflected from surrounding buildings, water tanks, or other high structures.

Radio Signal Police, amateur or CB radio transmitters may cause interference.

These interference problems can often be corrected through the use of a better antenna, signal amplifiers, or various filter devices. See your TV dealer for additional information, and available TV accessories.

MAINTENANCE AND TROUBLESHOOTING

EFORE CALLING FOR SERVICE

ıeck these items and see if you can correct the trouble by changing the adjustment of a control or the setting of a switch. By making ese simple checks before calling for service, you may save time and money.

oblem	Try This
Picture OK. Poor sound.	Re-orient antenna. Try another channel — possible station trouble. Adjust AUDIO MENU options. Check for local interference. Is antenna/cable connection loose?
Sound OK. Poor picture.	Re-orient antenna. Try another channel — possible station trouble. Adjust VIDEO MENU options. Trouble with cable-TV system? Is antenna/cable connection loose?
No picture or sound.	Is TV on? Is there power in wall outlet? Is TV plugged in? Is antenna hooked up? Is cable hooked up? Trouble with cable-TV system? Check auxiliary audio/video equipment. Check channel selection. Is the channel blocked by PARENTAL CONTROL?
Picture blurred or distorted. Ghost in picture.	Check antenna or cable hook up for broken wires. Try another channel — possible station trouble. Check for local interference.
No color, or poor color.	Is it a color program? Check antenna or cable hook up for broken wires. Adjust VIDEO MENU options.
No sound.	VOLUME (VOL) setting may be too low. Check MUTE button operation on remote control. Is Speaker EXT/INT switch set to EXT?
Cannot select certain channels.	Channels may be skipped in CH. ADD/DEL option of SETUP MENU. Use AUTO PROGRAM a second time.
No closed captions	Are captions available? Is CAPTION 1, CAPTION 2, CAPTION 3, OR CAPTION 4 selected using the CAPTIONS option on the SETUP MENU?
Black or blue box covers half of screen.	Is text information available? Is TEXT 1, TEXT 2, TEXT 3 or TEXT 4 selected in the CAPTIONS option of the SETUP MENU.
No picture or sound when VIDEO 1 or VIDEO 2 source is selected.	Is audio/video source hooked up properly? Are all wires connected to VIDEO 1 IN or VIDEO 2 IN jacks on connection center?
No stereo sound or weak stereo sound when using a stereo VCR.	Check AUDIO mode. Was stereo sound present before selecting VIDEO 1 or VIDEO 2 source?
PIP inset frame is black or lacks contrast when selecting VIDEO 1 for PIP inset.	Adjust PIP COLOR AND CONTRAST settings in PIP MENU. Are all wires connected to VIDEO 1 IN jacks on connection center?
PIP inset frame is "snowy" when using ANT/ CABLE 1 or 2 for PIP and VIDEO 1 for main picture.	Is TV/VCR switch on the VCR in the TV position?
No picture when using VIDEO 1 for PIP inset source and ANT/CABLE 1 or 2 for main picture.	Is TV/VCR switch on the VCR in the TV position?
Remote control does not work.	Are batteries okay? Is TV turned ON? Is remote in TV mode?

NOTES:

- If your TV fails to respond to the PICTURE PREF. selection, or to any other menu selection, you must reset the TV. Simply disconnect the AC power cord from the power outlet. Wait a few minutes, then plug the TV back into the power outlet. You will have to reset the clock to the current time.
- Unplugging the TV does not deactivate the Parental Control.

REPLACEMENT PRODUCT REGISTRATION CARD

You could win a full refund on your new INTEQ product.

Look for the Product Registration Card on your new video product.

Each month a drawing is held by INTEQ from the completed Product Registration Cards received during the preceding month. INTEQ will reimburse the winner for the full purchase price of the product purchased.

In order to participate, simply complete and return the Product Registration Card at once, even if you choose not to complete the information and interests portion of the questionnaire.

The odds of winning the free drawing described above, depend on the number of participants. Free drawing offer is void in Canada and other places where restricted or prohibited by law. Offer is void for Hotel/Motel and Institutional models. Rental models are not eligible.

Product Card lost or misplaced?

The Product Registration Card furnished with your video product is pre-printed with its Model and Serial numbers. Please fill out the card and mail it at your earliest convenience. It is imperative that INTEQ know how to reach you promptly if we discover a safety problem that would affect you. If the original card has been lost or misplaced, you may use the replacement card provided below. Either card will qualify you for the free drawing, but you are limited to only one entry in the drawing. Complete the card, place it in an envelope and mail it to:

INTEQ
P. O. Box 173257
Denver, CO 80217-3257

Use the replacement Product Registration Card only if the original card has been misplaced or lost.

PHOTOCOPY AND CUT ALONG DASHED LINE

INTEQ Product Registration Card H5Z01-01

Please Print Clearly or Type

1. ☐ Mr. 2. ☐ Mrs. 3. ☐ Ms. 4. ☐ Miss

Area Code Telephone ___ ___ – ____

First Name _____ **Initial** _ **Last Name** _____

Street _____ **Apt. No.** ____

City _____

State __ **Zip Code** _____ – ____

Date of Purchase

Mo. __ **Day** __ **Yr.** __

MODEL NUMBER	
Copy Numbers Here From Label on Set	
SERIAL NUMBER	

Please record the model number and serial number from the sticker on the back of your set.

YOUR INTEQ WARRANTY

CONSUMER PROTECTION PLAN FOR INTEQ TV

Welcome into the INTEQ family! We believe that you will be pleased with your new INTEQ TV. Please read this Consumer Protection Plan carefully. It is a "ONE YEAR FULL WARRANTY," plus a limited second year picture tube warranty, as defined under federal law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

INTEQ's RESPONSIBILITY

Service Labor and Parts — During a period of one year from effective warranty date, INTEQ will supply new or remanufactured replacement picture tubes or other parts, and will pay for service labor by a INTEQ authorized service center, when such parts or service labor are needed to repair the product as a result of manufacturing defects. Further, INTEQ will supply a new or remanufactured replacement for any picture tube which fails during the second year after effective warranty date because of a manufacturing defect. Replacement parts are warranted for the remaining portion of the original warranty period. The above service labor warranty applies only in the U.S.A.

In-Site Service — Warranty service is provided where the rojection TV is installed.

ot Covered — This warranty covers manufacturing defects nd does not cover installation, adjustment of customer ntrols in the home, installation or repair of home antenna stems, cable converters or cable company-supplied quipment; it also does not cover damage due to misuse, buse, negligence, acts of God or other causes beyond the ntrol of INTEQ. Any alteration of the product after anufacture voids this warranty in its entirety.

OWNER'S RESPONSIBILITY

Effective Warranty Date — Warranty begins on the date of original consumer installation. For your convenience, keep the dealers dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide — Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Antenna — Reception problems caused by inadequate home antennas or faulty antenna connections are the owner's responsibility.

Important: Product Registration — Please fill out and mail your Owner Registration Card. It is imperative that INTEQ know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service — For warranty service information, contact any INTEQ authorized service center. Parts and service labor that are INTEQ's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write:

INTEQ
Customer Service Department
1000 Milwaukee Avenue
Glenview, IL 60025
Telephone: (708) 391-8752
Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time

NOTE: Before you ask for Warranty service, check the Operating Guide section entitled, "MAINTENANCE AND TROUBLESHOOTING." It may be possible to avoid a service call.

STAR SIGHT®

Installing StarSight®

Testing StarSight

Using Universal Remote

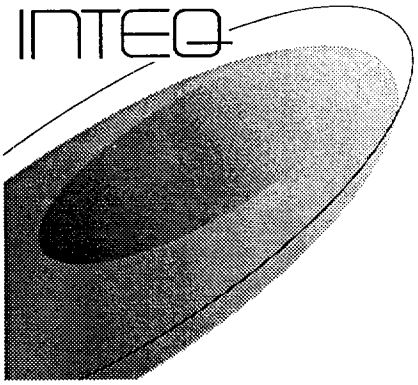
Using Z-Trak Remote

STAR SIGHT®
StarSight Telecast, Inc.
39650 Liberty Street
Fremont, CA 94538

Part No. 206-2918-01
Printed in U.S.A.
EP-EDCBA

ZENITH

WATCH US.



STAR SIGHT®

TO BE LICENSED TO USE THE STARSIGHT® SYSTEM AND STARSIGHT FEATURES OF THIS EQUIPMENT, YOU MUST BE REGISTERED WITH STARSIGHT OR AN AUTHORIZED REPRESENTATIVE. LICENSED UNDER U.S. PATENT NUMBERS 4,706,121 AND 5,151,789. 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 BE LIABLE FOR ANY AMOUNTS REPRESENTING LOSS OF PROFITS, OR INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PROVISION OR USE OF ANY INFORMATION, EQUIPMENT, OR SERVICE RELATING TO THE STARSIGHT SYSTEM.

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StarSight is a subscription service.
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Compliance Statement
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Patent Statement
The StarSight Guide system and its use are protected by one or more of the following U.S. patents: U.S. Patent No. 4,706,121, U.S. Patent No. 5,151,789; use rights reserved. For licensing and subscription information, call (800) 643-STAR.

Trademark Statement
StarSight is a registered trademark of StarSight Telecast Inc.

To Activate StarSight Call (800) 643-STAR

For the StarSight Help Desk, Call (800) 628-STAR

For Inteq Customer Support, Call (708) 391-8752

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TROUBLESHOOTING **E-1**

How to use this operating guide

StarSight installation and operation is given in this portion of the operating guide. Follow the procedures given if you are going to use StarSight.

⚠ Refer to the TV portion of this operating guide for TV installation and operation without StarSight.

⚠ Refer to the TV portion of this operating guide to properly hook-up your TV.

INTRODUCTION

Welcome

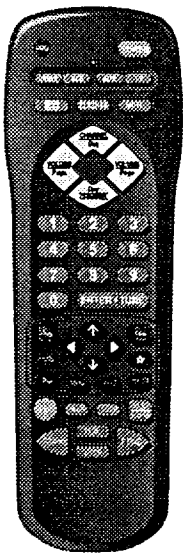
Welcome to StarSight, an innovative way to locate programs and manage the many channels that you receive. With StarSight, you can:

- 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, casts, content ratings, and running times.
- Tune from an on-screen guide right to the program you selected.
- Program your VCR with the touch of one button.
- Re-arrange the order of your channels to put your favorites first.

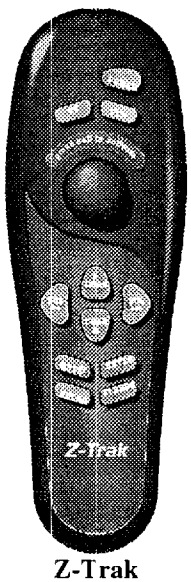
Cable Box and VCR Requirements.

Be sure to read these requirements carefully. They contain important information you need to ensure that StarSight performs properly.

- A VCR is required for recording capability. To take full advantage of StarSight, your VCR must be controllable by a wireless infrared remote control. Otherwise, StarSight can still provide program information, but will not be able to automatically tune to or record a specific program on your VCR.
- If your VCR remote control does not have a number pad with at least 10 digits, StarSight will be unable to tune the VCR.
- If you have a Cable Box, it must be controllable by a wireless infrared remote control.
- Your Cable company should be able to provide a remote-controlled Cable Box, if you do not already have one.
- Your StarSight-equipped television 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.



Universal Remote



Z-Trak Remote

INSTALLING STARSIGHT

StarSight must be installed properly for you to enjoy all of its benefits. To ensure proper installation, follow the procedure in this section in the order they are presented.

⚠ Refer to the TV portion of this operating guide to properly hook-up your TV.

STEP 1. Fill out the StarSight Checklist.

STARSIGHT CHECKLIST

Complete sections A and B, and keep this checklist close at hand during activation.

A **PBS Station:** Consult the table of PBS Stations, located at the end of this section.

Find the PBS station that is closest to your city. (If you receive two or more 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 listings to see if the PBS station in your area has a different channel number from the one you wrote down above.

If so, write your PBS station's Cable channel number here:_____

(You will use this channel number during the Setup process.)

B **Code Numbers:** Consult the table of Cable Box Codes and VCR Codes, located at the end of this section.

Find the code numbers that apply to your brands of Cable Box and VCR and write them below.

CABLE BOX

Code 1:_____ Code 2:_____ Code 3:_____

Code 4:_____ Code 5:_____Code 6:_____

VCR

Code 1:_____ Code 2:_____ Code 3:_____ Code 4:_____

Code 5:_____ Code 6:_____ Code 7:_____ Code 8:_____

C **During Activation...** StarSight will display on-screen your personal STAR number and I.D. number. When these numbers appear on your TV screen, write them here.

Star # _____

I.D. # _____

STEP 2. Activate StarSight

To bring StarSight information into your home, you must activate StarSight. You start the process directly through your TV, in a series of easy steps that take only minutes.

First, you must be sure that you:

- have completed the StarSight Checklist.
- have followed the step-by-step installation instructions on the preceding pages that apply to your video equipment.
- have your Universal remote control handy.
- have a videotape ready that you can use for a 30-second recording test (if you have a VCR).
- have a telephone nearby to call StarSight's toll-free activation number: 1-800-643-STAR.

How to Activate StarSight:

1. If you have a Cable Box, make sure that it is tuned to the PBS channel listed on the StarSight Checklist.

   If you do not have a Cable Box, be sure that your TV is tuned to the correct PBS channel. StarSight will search for schedule information on this channel.

2. Press STAR on your remote control to get into StarSight mode.

   The StarSight Menu will be displayed with "Activate StarSight" highlighted.

3. Press ENTER/TUNE to begin activation. Then follow the on-screen instructions.

4. StarSight will ask you about your equipment, search for schedule information on your PBS station and display your STAR # and ID #. (Enter these numbers in paragraph "C" of your StarSight Checklist.) You will also be asked to call StarSight.

5. The StarSight representative will ask you for some subscriber information, and will activate StarSight.

6. When you have been authorized, you'll see a screen that says: Congratulations!

7. Proceed to "Step 3. Checking Your StarSight Setup."

YOU SHOULD ALSO KNOW...

- 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 at the end of this section. (If no station is listed for your area, call 1-800-628-STAR for further information.)

INSTALLING STARSIGHT

Step 3. Checking Your StarSight Setup

If you do not have a VCR or Cable Box, proceed to number 4.

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

1. Press ENTER/TUNE 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. If you're using a VCR, you'll be prompted to insert a videotape that can be used for a 30-second recording test.

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 found.

   Be sure the Remote Emitters you placed previously are positioned according to the instructions earlier in this section.

3. Follow the on-screen instructions until you see a screen that says: Congratulations!

   If you have any difficulty finding the correct code or getting your VCR or Cable Box to respond, call the StarSight Help Desk at (800) 628-STAR.

4. Your StarSight System is now all set up and ready to collect program information. You'll begin to receive StarSight program information whenever your TV is turned off or turned to your PBS station. Initially, it will take between 4 and 12 hours to collect program information, so we recommend that you simply wait overnight. While your TV is off, it will gather the information that it needs. Following this initial process, your system will automatically be updated with the latest program information any time your TV is turned off.

YOU SHOULD ALSO KNOW...

It is important that you:

- Always be sure your TV set is plugged in.
- Always leave your Cable Box ON, otherwise you risk losing your StarSight program information.
- Be sure you leave your VCR OFF when it's not being used. If you forget to turn off your VCR, a scheduled recording cannot occur.
- It will normally take from 3 to 5 seconds for Cable Box channels to change. This is the time it takes for the Remote Emitter's infrared signal to communicate with your Cable Box.

PBS Stations

City	Station	Channel
Alabama		
Anniston	WCIQ	7
Birmingham	WBIQ	10
Dothan	WGIQ	43
Decatur	WHIQ	25
Huntsville	WHIQ	25
Mobile	WEIQ	42
Montgomery	WAIQ	26
Alaska		
Anchorage	KAKM	7
Fairbanks	KUAC	9
Arizona		
Phoenix	KAET	8
Tucson	KUAT	6
California		
Eureka	KEET	13
Fresno	KVPT	18
Los Angeles	KCET	28
Monterey	KTEH	54
Sacramento	KVIE	6
Salinas	KTEH	54
San Diego	KPBS	15
Santa Barbara	KCET	28
San Francisco	KQED	9
San Jose	KQED	9
Stockton	KVIE	6
Redding	KIXE	9
Visalia	KVPT	18
Colorado		
Colorado Springs	KTSC	8
Denver	KRMA	6
Pueblo	KTSC	8
Connecticut		
Bridgeport	WEDW	49
Hartford	WEDH	24
New Haven	WEDY	65
Norwich	WEDN	53
Delaware		
Seaford	WDPB	64
Wilmington	WHYY	12
Dist. of Columbia		
Washington, D.C.	WETA	26
Florida		
Daytona Beach	WMFE	24
Ft. Lauderdale	WPBT	2
Ft. Myers	WSFP	30
Gainesville	WUFT	5
Jacksonville	WJCT	7
Miami	WPBT	2
Naples	WSFP	30
Orlando	WMFE	24
Panama City	WFSG	56
Pensacola	WSRE	23
Tampa	WEDU	3
St. Petersburg	WEDU	3
Tallahassee	WFSU	11
Thomasville	WFSU	11
West Palm Beach	WXEL	42

City	Station	Channel
Georgia		
Albany	WABW	14
Atlanta	WGTV	8
Augusta	WCES	20
Chatsworth	WCLP	18
Columbus	WJSP	28
Dawson	WACS	25
Macon	WDCO	15
Savannah	WVAN	9
Waycross	WXGA	8
Hawaii		
Honolulu	KHET	11
Waikiki	KMEB	10
Idaho		
Boise	KAID	4
Idaho Falls	KISU	10
Twin Falls	KITT	13
Illinois		
Carbondale	WSIU	8
Champaign	WILL	12
Chicago	WTTW	11
Moline	WQPT	24
Peoria	WTVP	47
Quincy	WQEC	27
Rock Island	WQPT	24
Springfield	WILL	12
Indiana		
Elkhart	WNIT	34
Evansville	WNIN	9
Fort Wayne	WFWA	39
Lafayette	WFYI	20
Indianapolis	WFYI	20
South Bend	WNIT	34
Vincennes	WVUT	22
Iowa		
Ames	KDIN	11
Cedar Rapids	KIIN	12
Council Bluffs	KBIN	32
Davenport	KQCT	36
Des Moines	KDIN	11
Fort Dodge	KTIN	21
Iowa City	KIIN	12
Mason City	KYIN	24
Red Oak	KHIN	36
Sioux City	KSIN	27
Waterloo	KRIN	32
Kansas		
Hutchinson	KOOD	9
Lakin	KSWK	3
Topeka	KTWU	11
Kentucky		
Bowling Green	WKYU	24
Cape Girardeau	WSIU	8
Lexington	WKLE	46
Louisville	WKPC	15
Paducah	WSIU	8
Tri-Cities	WSBN	47

City	Station	Channel
Louisiana		
Alexandria	KLPA	25
Baton Rouge	WLPB	27
El Dorado	KLTM	13
Lafayette	KLPB	27
Lake Charles	KLTL	18
Monroe	KLTM	13
New Orleans	WYES	12
Shreveport	KLTS	24
Maine		
Bangor	WMEB	12
Calais	WMED	13
Lewiston	WCBB	10
Presque Isle	WMEM	10
Maryland		
Annapolis	WMPT	22
Baltimore	WMPB	67
Frederick	WFPT	62
Hagerstown	WWPB	31
Oakland	WGPT	36
Salisbury	WCPB	28
Massachusetts		
Boston	WGBH	2
Springfield	WGBY	57
Holyoke	WGBY	57
Michigan		
Alpena	WCML	6
Bad Axe	WUCX	35
Bay City	WUCM	19
Detroit	WTVS	56
Flint	WFUM	28
Grand Rapids	WGVU	35
Kalamazoo	WGVU	35
	WGVK	52
Lansing	WKAR	23
Marquette	WNMU	13
Mount Pleasant	WCMU	14
Saginaw	WFUM	28
Traverse City	WCMW	21
Minnesota		
Austin	KYIN	24
Duluth	WDSE	8
La Crescent	WHLA	31
Mason City	KYIN	24
Minneapolis-St. Paul	KTCI	17
Superior	WDSE	8
Mississippi		
Biloxi	WMAH	19
Bude	WMAU	17
Columbus	WMAB	2
Gulfport	WMAH	19
Greenville	WMAO	23
Greenwood	WMAO	23
Jackson	WMPN	29
Meridian	WMAW	14
Oxford	WMAV	18

(Continued on next page)

'BS Stations

City	Station	Channel
lissouri		
Hannibal	WQEC	27
Joplin	KOZJ	26
Kansas City	KCPT	19
Springfield	KOZK	21
St. Louis	KETC	9
ontana		
Bozeman	KUSM	9
Butte	KUSM	9
ebraska		
Bassett	KMNE	7
Hastings	KUON	12
	KHNE	29
Lexington	KLNE	3
Lincoln	KUON	12
Merriman	KRNE	12
Norfolk	KXNE	19
North Platte	KPNE	9
Omaha	KYNE	26
Scottsbluff	KTNE	13
Nevada		
Las Vegas	KLVX	10
Reno	KNPB	5
New Hampshire		
Durham	WENH	11
	WNET	13
Keene	WEKW	52
Littleton	WLED	49
New Jersey		
N. New Jersey	WNET	13
S. New Jersey	WHYY	12
New Mexico		
Albuquerque	KNME	5
Santa Fe	KNME	5
New York		
Albany-Schenectady	WMHT	17
Binghampton	WSKG	46
Buffalo	WNED	17
New York	WNET	13
Norwood	WNPI	18
Plattsburgh	WCFE	57
Rochester	WXXI	21
Syracuse	WCNY	24
Watertown	WNPE	16
North Carolina		
Asheville	WUNF	33
Charlotte	WUNG	58
Columbia	WUND	2
Greenville	WUNK	25
Greensboro	WUNL	26
Jacksonville	WUNM	19
Linville	WUNE	17
Raleigh-Durham	WUNC	4
Roanoke Rapids	WUNP	36
Wilmington	WUNJ	39
North Dakota		
Bismarck	KBME	3
Drakinson	KDSE	9
Ellendale	KJRE	19
Fargo	KFME	13
Grand Forks	KGFE	2
Minot	KBME	3
	KSRE	6
Williston	KWSE	4
Ohio		
Akron	WVIZ	25
	WEAU	49
Cleveland	WVIZ	25
Cincinnati	WCET	48
Columbus	WOSU	34
Dayton	WPTD	16
Lima	WBGU	27
Portsmouth	WPBO	42
Steubenville	WOUC	44
Toledo	WGTE	30
Youngstown	WNEO	45
Oklahoma		
Cheyenne	KWET	12
Eufaula	KOET	3
Oklahoma City	KETA	13
Tulsa	KOED	11
Oregon		
Bend	KOAB	3
Eugene	KEPB	28
Klamath Falls	KFTS	22
Medford	KSYS	8
Portland	KOPB	10
Pennsyvania		
Altoona	WPSX	3
Erie	WQLN	54
Harrisburg	WITF	33
Johnstown	WPSX	3
Lancaster	WITF	33
Philadelphia	WHYY	12
Pittsburgh	WQED	13
Scranton	WVIA	44
Wilkes-Barre	WVIA	44
Rhode Island		
New Bedford	WSBE	36
Providence	WSBE	36
South Carolina		
Allendale	WEBA	14
Beaufort	WJWJ	16
Charleston	WITV	7
Columbia	WRLK	35
Conway	WHMC	23
Florence	WJPM	33
Greenville	WNTV	29
Greenwood	WNEH	38
Huntington	WPBY	33
Rock Hill	WNSC	30
Spartanburg	WRET	49
Sumter	WRJA	27
South Dakota		
Aberdeen	KDSD	16
Brookings	KESD	8
Eagle Butte	KPSD	13
Lowry	KQSD	11
Martin	KZSD	8
Pierre	KTSD	10
Rapid City	KBHE	9
Vermillion	KUSD	2
Tennessee		
Chattanooga	WTCI	45
Jackson	WLJT	11
Knoxville	WKOP	15
Memphis	WKNO	10
Nashville	WDCN	8
Texas		
Amarillo	KACV	2
Austin	KLRU	18
Corpus Christi	KEDT	16
Dallas	KERA	13
El Paso	KCOS	13
Ft. Worth	KERA	13
Harlingen	KMBH	60
Houston	KUHT	8
Lubbock	KTXT	5
Odessa Midland	KOCV	36
San Antonio	KLRN	9
Temple	KNCT	46
Waco	KNCT	46
Utah		
Salt Lake City	KUED	7
Vermont		
Burlington	WCFE	57
Virginia		
Arlington	WETA	26
Charlottesville	WHTJ	41
Harrisonburg	WVPT	51
Lynchburg	WBRA	15
Norfolk	WHRO	15
Norton	WSBN	47
Petersburg	WCVE	23
Portsmouth	WHRO	15
Richmond	WCVE	23
Roanoke	WBRA	15
Washington		
Seattle	KCTS	9
Spokane	KSPS	7
Tacoma	KCTS	9
Yakima	KYVE	47
West Virginia		
Beckley	WSWP	9
Bluefield	WSWP	9
Charleston	WPBY	33
Clarkburg	WNPB	24
Huntington	WPBY	33
Parkersburg	WOUB	20
Weston	WNPB	24
Wheeling	WOUC	44
Wisconsin		
Appleton	WPNE	38
Eau Clair	WHLA	31
Green Bay	WPNE	38
La Crosse	WHLA	31
Madison	WHA	21
Menomonie	WHWC	28
Milwaukee	WMVS	10
Park Falls	WLEF	36
Rhinelander	WHRM	20
Wassau	WHRM	20
Wyoming		
Cheyenne	KTNE	13
Evanston	KUED	7

Cable Box Codes

Cable Box Brand	Code
Allegro	62
GE	67
Gemini	05, 31, 38
General Instrument	04, 05, 06, 07, 08, 09, 10, 18, 60
Hamlin	02, 45, 65, 66
Jerrold	04, 07, 08, 09, 10, 18, 60
Kale Vision	35
Macom	21
Magnavox	34
Northcoast	75
NSC	35, 39, 68, 69, 70
Oak	11, 32, 42
Panasonic	13, 20
Philips	47, 50, 52, 54, 55
Pioneer	15, 43
Regency	29
Samsung	35
Scientific Atlanta	16, 23, 36, 64
Signal	76
Sprucer	13
Standard Components	35
Texscan	39, 56, 71
Tocom	17, 18, 46
Unika	48, 62
Universal	58, 62
Video Way	49
Vid Tech	40
Viewstar	54, 55, 72
Zenith	01
Zenith HT-2000	19

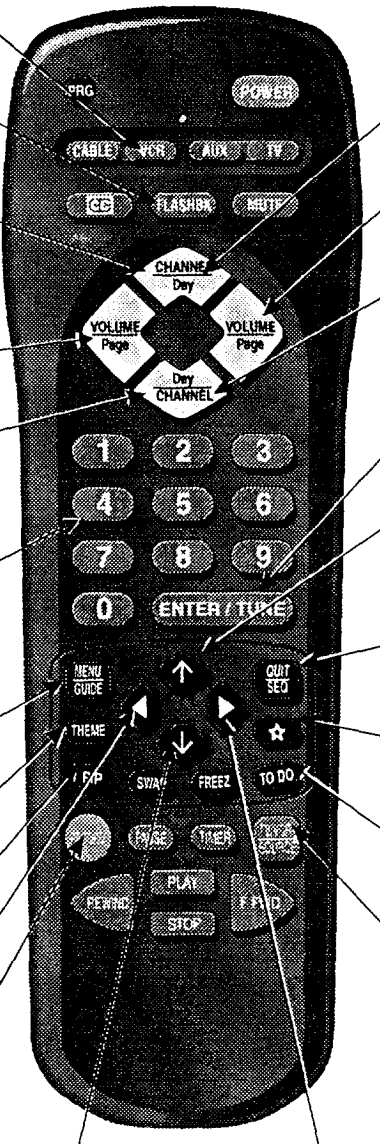
VCR Codes

VCR Brand	Code
Admiral	08, 61
Adventura	31
Aiwa	31
Akai	23, 38, 41
Audio Dynamics	02, 18
Bell & Howell	06, 47
Broksonic	21, 26, 50, 55
Canon	14
Citizen	09
Craig	12
Curtis Mathes	14, 59
Daewoo	46, 48, 54
Daytron	46
DBX	02, 18
Emerson	03, 21, 23, 26, 33, 35, 43, 50
Fisher	11, 12, 13, 47
Funai	31
General Electric	14, 16, 20
Go Video	56, 62, 63
Goldstar	01, 09
Hitachi	15, 57
Instant Replay	14, 27
JC Penney	14, 15, 18, 27
Jerrold	18
JVC	02, 25, 58
Kenwood	02
Logik	39
LXI	09, 31
Magnavox	07, 14, 31
Marantz	07, 18
Marta	09
Memorex	06, 12, 14, 31
Mitsubishi	04, 22
Montgomery Ward	08, 14, 16, 31, 49
Multi Tech	39
NEC	02, 18
Orion	50
Panasonic	14, 51, 59
Pentax	15
Philco	07, 14
Philips	07, 14, 27
Pioneer	10, 15
Portland	46
Proscan	16, 60
Quasar	14, 59
RCA	15, 16, 20, 27, 60
Realistic	06, 08, 12, 14, 31
Samsung	20
Sansui	39
Sanyo	06, 12, 47
Scott	04, 05, 33, 43
Sears	06, 09, 11, 12, 15
Sharp	08, 61
Shintom	39
Signature 2000	08, 14, 16, 31, 49
Sony Video8	17
Sony VHS	32
Sony	32, 37
Sony Beta	37
Sylvania	07, 14, 27
Symphonic	31
Tashiko	09
Tatung	02
Teac	02, 31
Teknika	09, 34
Toshiba	05, 15
Vector Research	04, 18
Yamaha	02, 18
Zenith	00
Zenith VHS	01, 24, 25
Zenith Beta	37

USING STARSIGHT WITH THE UNIVERSAL REMOTE

Basic Operation

This section of the guide discusses the use of StarSight with the Universal Remote. The following illustration shows the Universal Remote and its controls.



VCR
Press VCR button, then POWER button to turn VCR on and off

FLASHBK
Return to the previously tuned channel

DAY UP
Move ahead 24 hours from the screen time currently displayed in StarSight Program Guides (hold to repeat)

PAGE LEFT
Display the previous page in StarSight Program Guides (hold to repeat)

DAY DOWN
Move back 24 hours from the screen time currently displayed in StarSight Program Guides (hold to repeat)

NUMBER PAD
Enter number for direct channel tuning; enter number selections in StarSight Setup

MENU/GUIDE
Display the Grid Guide or Channel Guide; access TV on-screen menus

THEME
Display the Theme Guide's program categories

PIP
Displays the Picture-in-the Guide for some operations

LEFT ARROW
Move left one time slot or column (hold to repeat)

RECORD
Schedule a program for recording; confirm or cancel recordings

DOWN ARROW
Move down one row or selection; while viewing TV, display information for programs on other channels (hold to repeat)

RIGHT ARROW
Move right one time slot or column (hold to repeat)

CHANNEL UP
Go to the next channel

PAGE RIGHT
Display the next page in StarSight Program Guides (hold to repeat)

CHANNEL DOWN
Go to the previous channel

ENTER/TUNE
Tune to the highlighted channel; enter selections in StarSight Setup

UP ARROW
Move up one row or selection; while viewing TV, display information for programs on other channels (hold to repeat)

QUIT/SEQ
Exit the current screen or Pop-up, or return to the currently tuned channel

STAR
Press to use StarSight; display StarSight Information Pop-ups; make and confirm selections

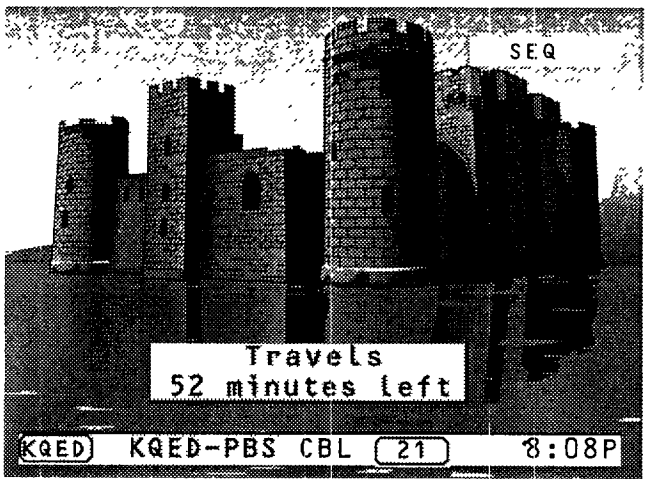
TO DO
Display list of single recordings, series recordings, and StarSight Setup Menu

TV/VCR SOURCE
Select different equipment connected to your TV (eg. VCR)

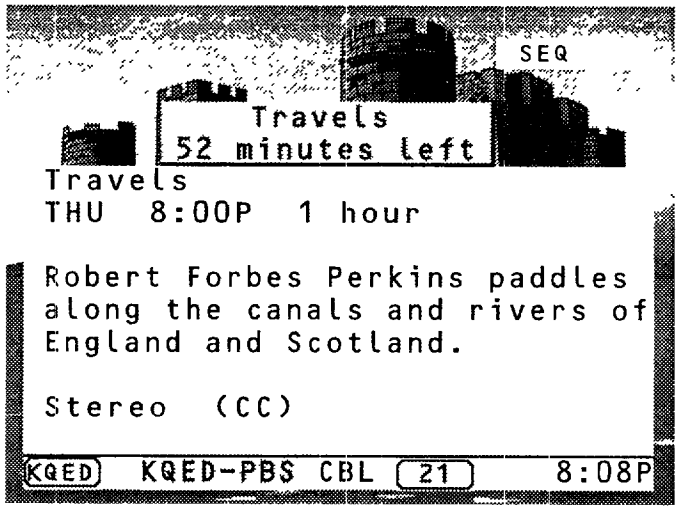
USING STARSIGHT WITH THE UNIVERSAL REMOTE

Finding out more about what you're watching: the STAR button

1. Press the STAR button. You'll see the program title and time remaining "Pop up" for five seconds.



2. Press STAR again. The Pop-up changes to provide more detailed information. (It goes away in 30 seconds.) Or...



3. Press STAR again to resume watching TV.

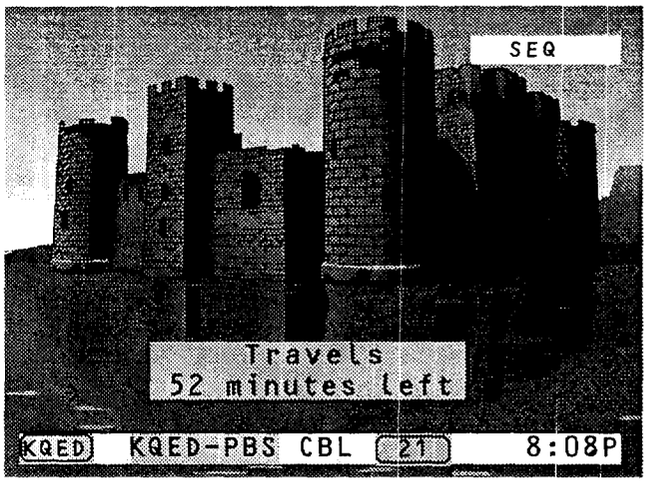
YOU SHOULD ALSO KNOW...

- If at any time you find you cannot activate the StarSight functions, just press the STAR button.

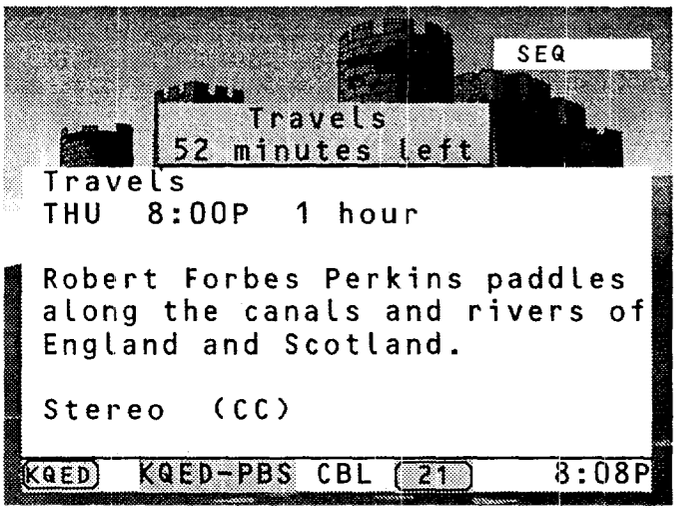
USING STARSIGHT WITH THE UNIVERSAL REMOTE

What's on when you change channels: Grazing

1. Press CHANNEL/Day Up or Down to change channels.The Pop-up for the new program automatically displays and then disappears in five seconds.



2. Press STAR while the Pop-up is displayed to get even more information on the program.



3. Press STAR again to resume watching TV.

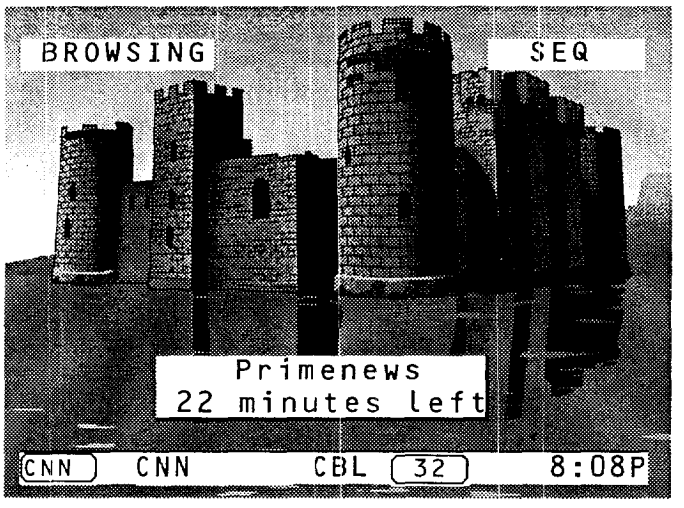
YOU SHOULD ALSO KNOW...

- If you press STAR twice and then change channels, you will get full program descriptions while you are channel surfing. (Does not apply to Cable Box Setups.)

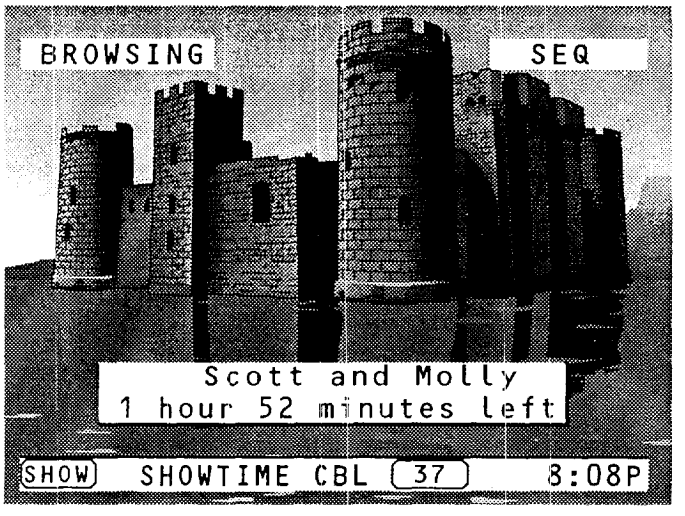
USING STARSIGHT WITH THE UNIVERSAL REMOTE

What's on without changing channels: Browsing

1. Press ↑ or ↓ to see what's on other channels. Notice that you will continue to see your presently tuned program, but will get a Pop-up for a program on a different channel.

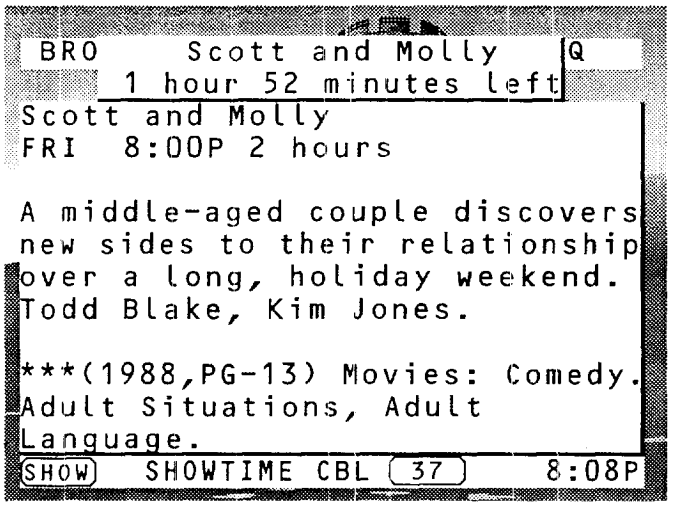


2. Press ↑ or ↓ as many times as you'd like (or hold to repeat) to see Pop-ups for different programs.



3. Press STAR while the Pop-up is displayed to get even more information on the program.

4. Press STAR again. The Pop-up disappears.



YOU SHOULD ALSO KNOW...

- Press ENTER/TUNE to go directly to the program in the Pop-up.
- If the PIP window is displayed, press the STAR button and then press ↑ or ↓ to browse channels.
- The program title Pop-up appears in yellow for the currently tuned program.

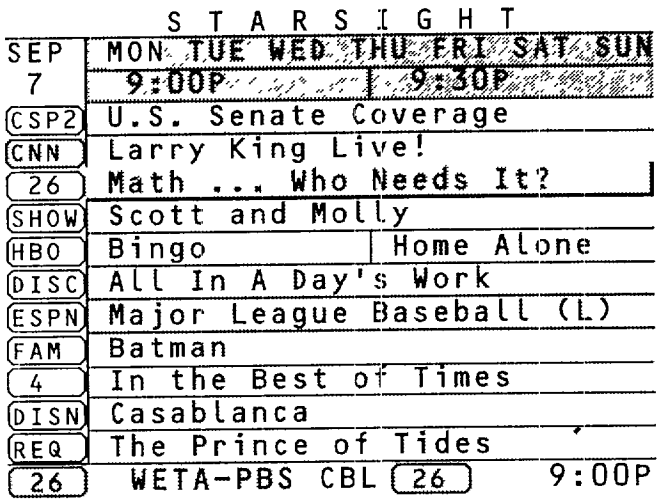
USING STARSIGHT WITH THE UNIVERSAL REMOTE

Finding out what's on all channels: Grid Guide

Using the StarSight Grid Guide to see:

- what's on right now
- what's on for the next seven days
- what the programs are about

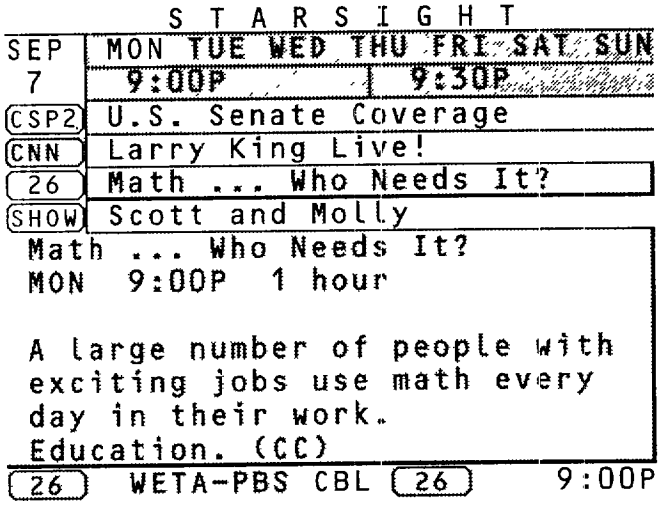
1. Press MENU/GUIDE to see a full listing of all programs. (Remember: If the Grid Guide doesn't appear, you may not be in StarSight mode. Just press STAR.)



2. Press ◀, ▶, ↑, or ↓ to move the highlight bar around the Grid Guide.

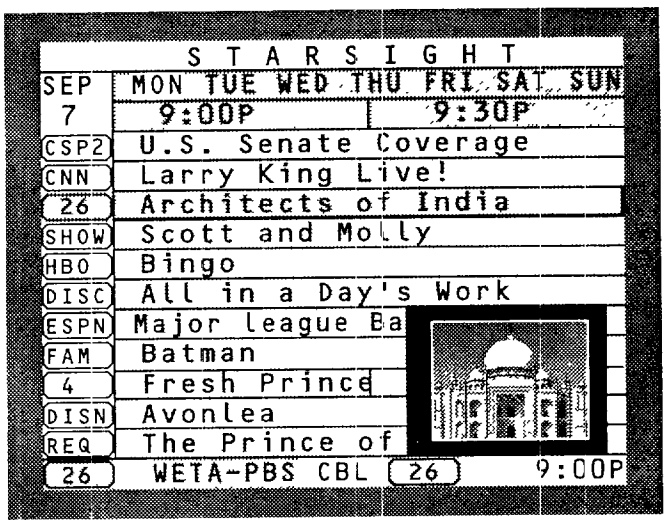
3. Press STAR any time to get information about the highlighted show.

4. Press PIP to view the currently highlighted show.



5. Press ENTER/TUNE to tune to any currently highlighted show.

6. Press QUIT/SEQ to resume watching TV.



YOU SHOULD ALSO KNOW...

- Press numbers followed by ◀ or ▶ to move to a specific time in the guide.
- Press RECORD to record any highlighted show.
- Press VOLUME/Page Left or Right to see additional channel listings.
- Press CHANNEL/Day Up or Down to see different days for the same time.
- If you have a cable box, the PIP window will only show your presently tuned channel.

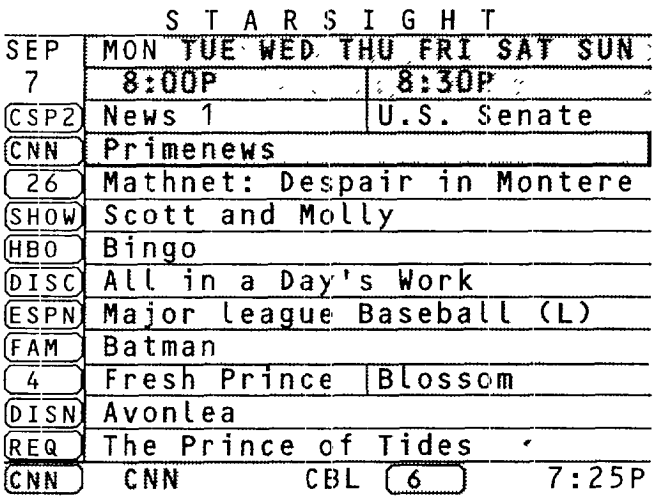
USING STARSIGHT WITH THE UNIVERSAL REMOTE

Viewing what's on a single channel: Channel Guide

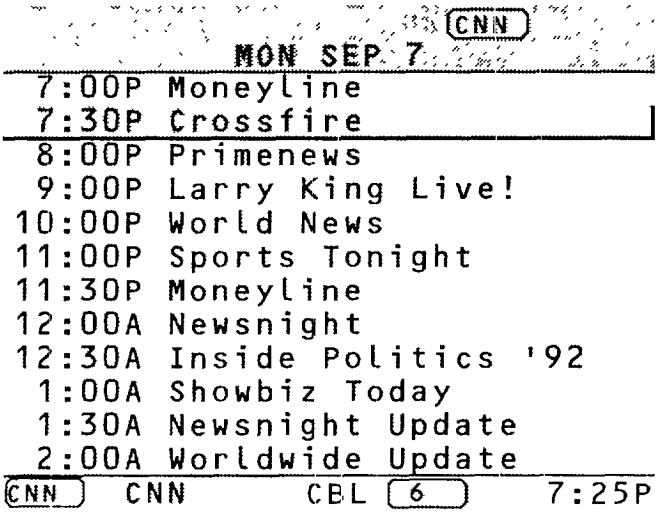
Do you have a favorite channel? Showtime? Nickelodeon?

Whatever it is, StarSight can show you a channel's schedule for an entire week.

1. Press MENU/GUIDE to see the Grid Guide.
2. Press ↑ or ↓ to move the highlight bar to the channel you want to know about.



3. Press MENU/GUIDE again to see the Channel Guide for the channel you highlighted.
4. Press VOLUME/Page Right to see more programs on the same channel.
5. Press ENTER/TUNE to tune to a current program.
6. Press QUIT/SEQ to resume watching TV.



YOU SHOULD ALSO KNOW...

- Press STAR to learn more about a program.
- Press CHANNEL/Day Up or CHANNEL/Day Down to see the Channel Guide for other channels.
- Press MENU/GUIDE to go back and forth between the Channel Guide and Grid Guide.
- Press RECORD to record any highlighted show.

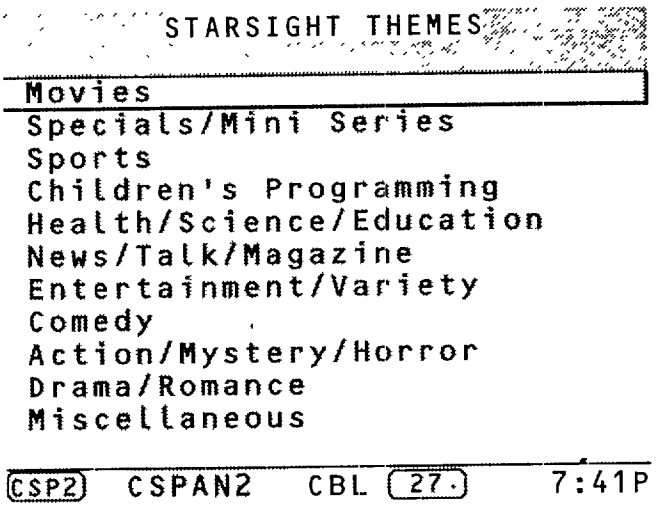
USING STARSIGHT WITH THE UNIVERSAL REMOTE

Choosing programs by category: Theme Guide

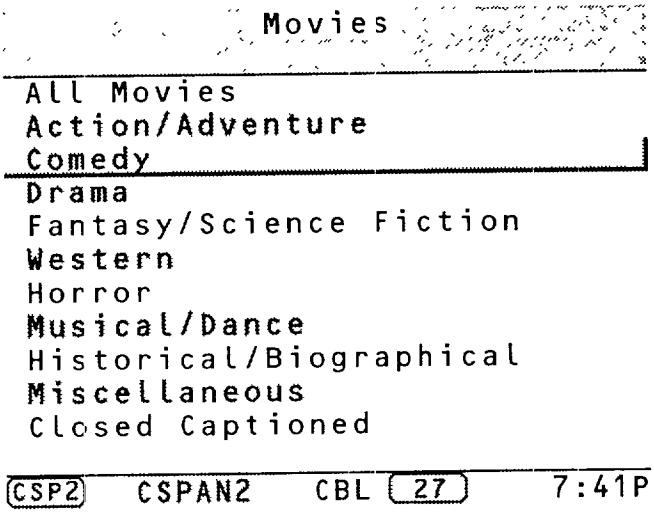
What's your favorite kind of program?

Sports? Movies? Comedies? StarSight gives you a selection of categories to help you pick your favorite shows for the coming week.

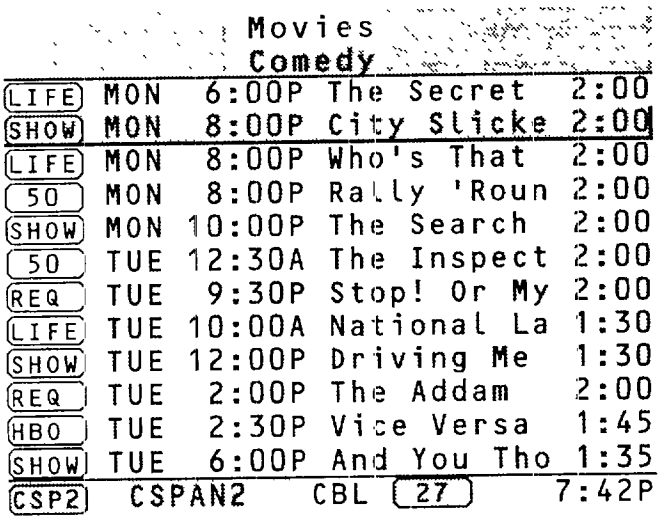
1. Press THEME to see the StarSight Themes menu.
2. Press ↑ or ↓ to highlight a Theme.



3. Press STAR to see the categories for that Theme.
4. Press ↑ or ↓ to highlight a category.



5. Press STAR to see the shows for that category. Press VOLUME/Page Right to see additional show listings.
6. Press ENTER/TUNE to tune to a current program.
7. Press QUIT/SEQ repeatedly to resume watching TV.



YOU SHOULD ALSO KNOW...

- Press STAR to learn more about a program.
- Press MENU/GUIDE to go directly to the Grid Guide from any Theme Guide.
- Press RECORD to record any highlighted show.

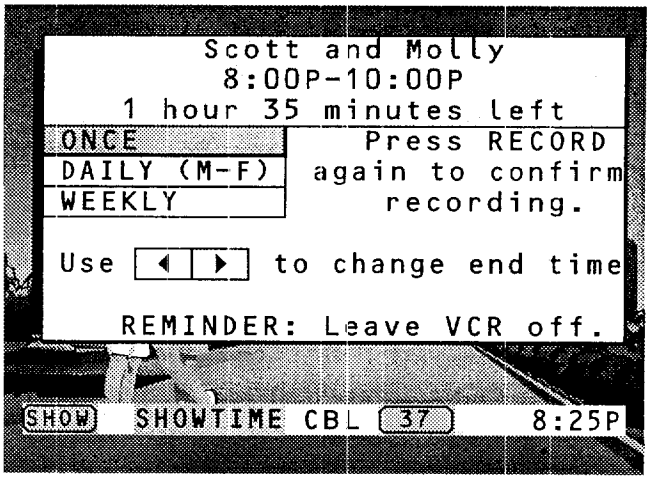
USING STARSIGHT WITH THE UNIVERSAL REMOTE

Recording what you're watching: Current Recording

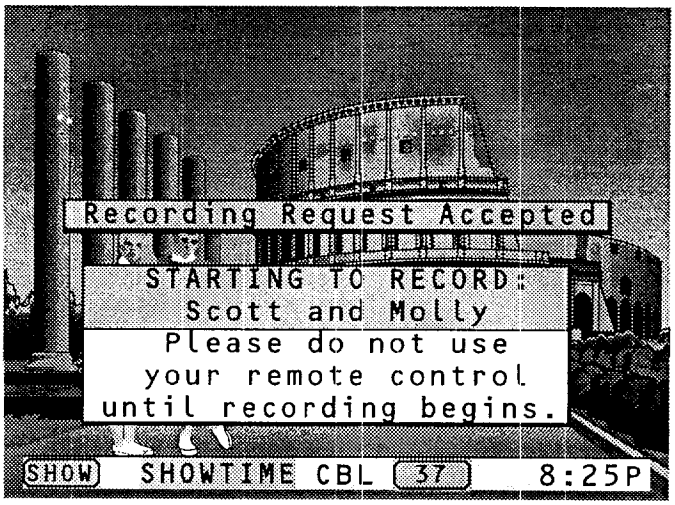
IMPORTANT: Your VCR must be turned off when you're not using it.
Also, be sure you have inserted a blank videotape in the VCR.

1. Press RECORD to see a Recording Pop-up. Notice that the yellow highlight bar is on "ONCE."

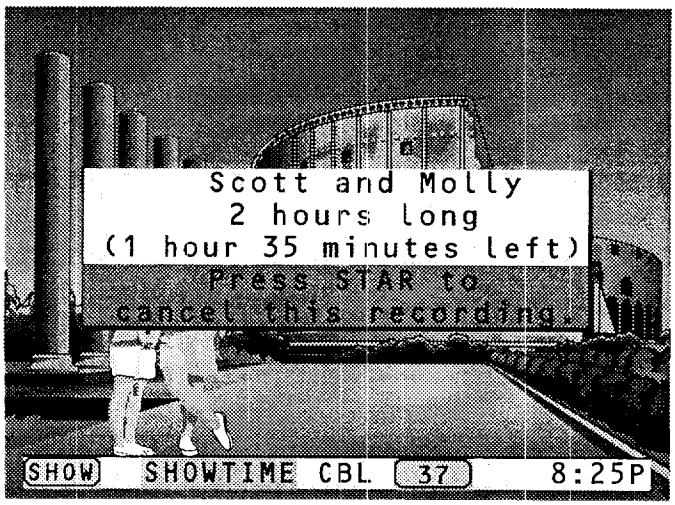
- If you're recording an event that might run over (for example, a baseball game), press ▶ on the Recording Pop-up to extend the end time of the recording in 5 minute increments.



2. Press RECORD again to confirm your recording. StarSight will turn on your VCR and begin recording in a few seconds.



3. To cancel a recording in progress, press RECORD again and then press STAR to confirm.



YOU SHOULD ALSO KNOW...

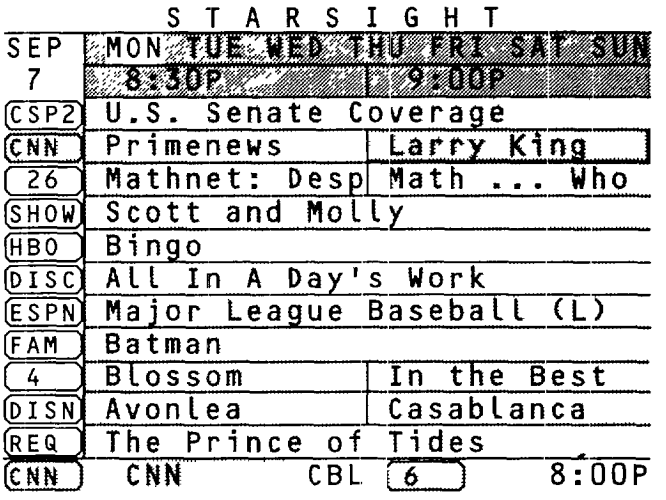
- To turn your VCR on and off with the remote control, press the VCR button, followed by the POWER button. (See "Programming Your Remote" in the TV section of this guide.)
- Do not press VCR buttons while a StarSight recording is in progress.
- "ONCE" records the current program only, "DAILY" records the same program every day (M-F), and "WEEKLY" records it once a week.

USING STARSIGHT WITH THE UNIVERSAL REMOTE

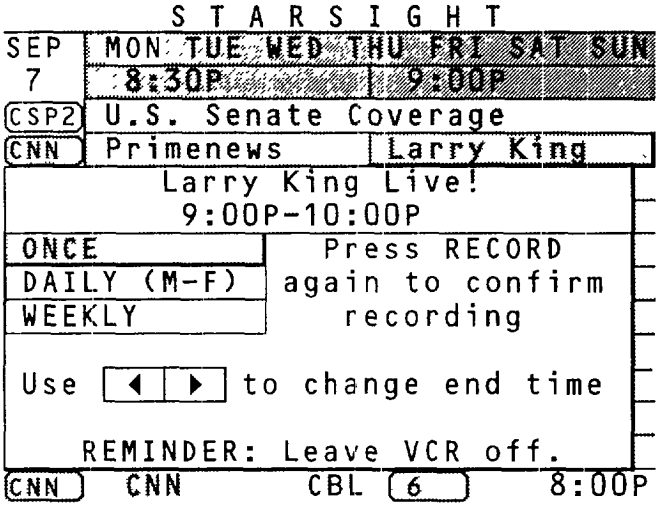
Scheduling a recording from StarSight guides: Future Recording

IMPORTANT: Your VCR must be turned off when you're not using it.
Also, be sure you have inserted a blank videotape in the VCR.

1. Press MENU/GUIDE to see the Grid Guide.
2. Press ◀, ▶, ↑, or ↓ to highlight a current or future program.

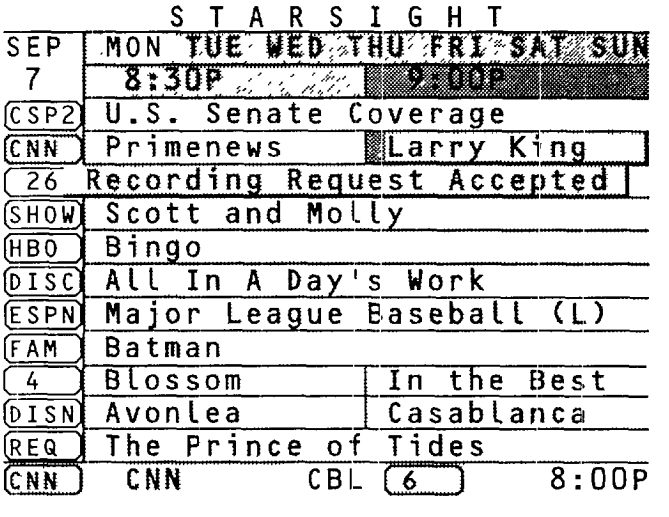


3. Press RECORD to see a Recording Pop-up for the selected program.
4. Press ↑ or ↓ to select ONCE, DAILY or WEEKLY.
5. Press RECORD again to confirm your recording. Just before your scheduled recording, StarSight turns on your VCR and begins recording.



6. To cancel a selected recording, highlight the program on the Grid Guide (it will be shown in red), press RECORD and then press STAR to confirm.

You can schedule recordings or cancel them from the Grid Guide, Channel Guide or Theme Guide.



YOU SHOULD ALSO KNOW...

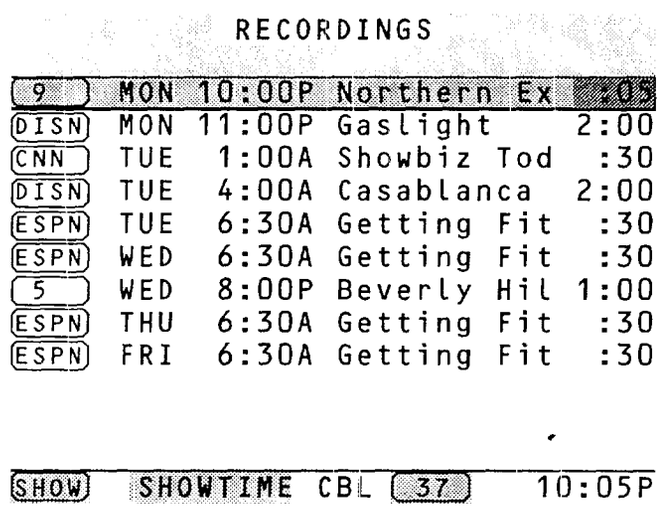
- Selecting ONCE records the selected program.
- Selecting DAILY records a program every day (M-F).
- Selecting WEEKLY records a program once a week.
- You can extend the end time of a recording in 5 minute increments by pressing ▶ on the Recording Pop-up.
- For more information on recording, see "YOU SHOULD ALSO KNOW... Recording what you're watching: Current Recording."

USING STARSIGHT WITH THE UNIVERSAL REMOTE

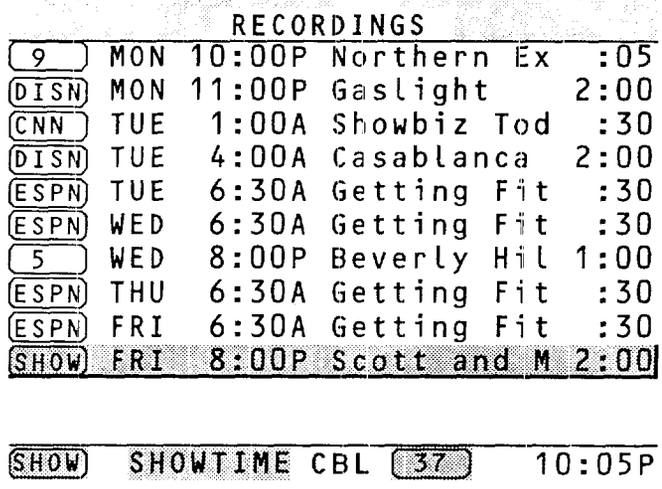
Reviewing your schedule of individual recordings: Recordings List

StarSight keeps track of up to 25 scheduled recordings, including the four most recently completed.

1. Press TO DO to review your scheduled recordings.

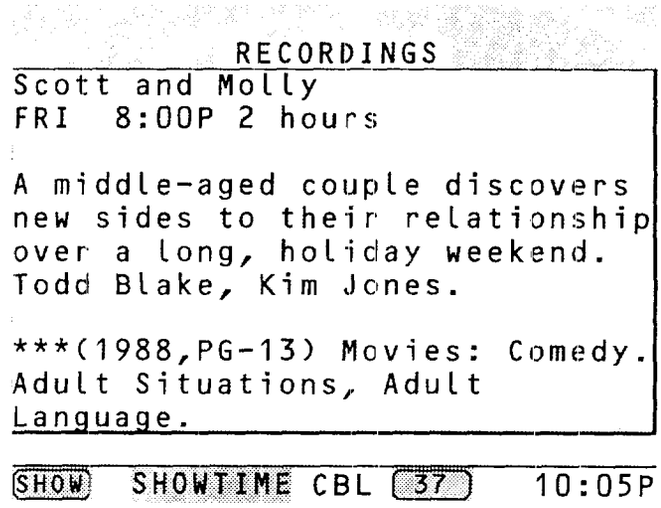


2. Press ↑ or ↓ to highlight a recording.



3. Press STAR to see information about the program.

4. Press QUIT/SEQ to resume watching TV.



YOU SHOULD ALSO KNOW...

- To cancel a recording, simply highlight the program and press RECORD, then STAR.
- If you see a question mark symbol on a scheduled recording, press MENU/GUIDE to see why there is a recording mismatch.
- Pressing ↑ repeatedly displays the last four completed recordings.
- Programs with a white background are scheduled to be recorded; those with a gray background have already been recorded.

USING STARSIGHT WITH THE UNIVERSAL REMOTE

Reviewing daily or weekly series recordings: Series Recordings List

StarSight keeps track of up to five daily or weekly series recordings.

1. Press TO DO to review your scheduled recordings.

RECORDINGS

9	MON	10:00P	Northern Ex	1:00
DISN	MON	11:00P	Gaslight	2:00
CNN	TUE	1:00A	Showbiz Tod	:30
DISN	TUE	4:00A	Casablanca	2:00
ESPN	TUE	6:30A	Getting Fit	:30
ESPN	WED	6:30A	Getting Fit	:30
5	WED	8:00P	Beverly Hil	1:00
ESPN	THU	6:30A	Getting Fit	:30
ESPN	FRI	6:30A	Getting Fit	:30

SHOW SHOWTIME CBL 37 10:05P

2. Press TO DO again to see the Series Recordings list.

SERIES TO BE RECORDED

9	WK MON	10:00P	Northern	1:00
5	WK WED	8:00P	Beverly	1:00
ESPN	MTWThF	6:30A	Getting	:30

3. Press QUIT/SEQ to resume watching TV.

SHOW SHOWTIME CBL 37 10:07P

YOU SHOULD ALSO KNOW...

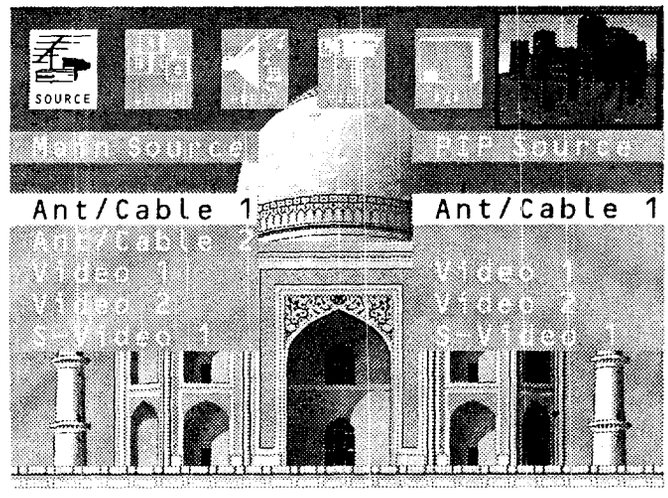
- To cancel a Series Recording, simply highlight the Series and press RECORD, then STAR. This also automatically cancels all individual recordings within that Series.

USING STARSIGHT WITH THE UNIVERSAL REMOTE

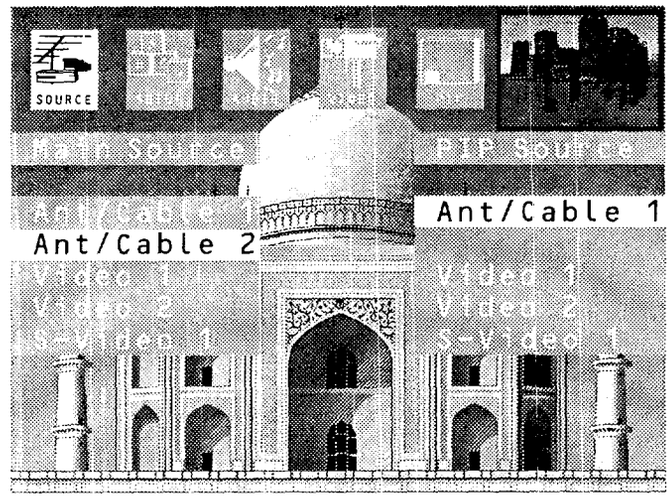
How to watch one channel while recording another: Watch and Record

If you have a Cable Box:

1. After recording begins, press TV/VCR SOURCE. You will see the TV SOURCE menu highlighted.



2. Press ↓ to highlight "Ant/Cable 2," then press QUIT/SEQ. You can now watch any unscrambled channel.
3. Use CHANNEL/Day Up or Down to watch other channels. (Note: you will not be able to use StarSight functions while on the ANT/CABLE 2 source.)



4. To resume normal viewing once recording has been completed (and to resume using StarSight) press TV/VCR SOURCE to see the source menu. Then press ↑ to highlight "Ant/ Cable 1." Press QUIT/SEQ.

If you DO NOT have a Cable Box:

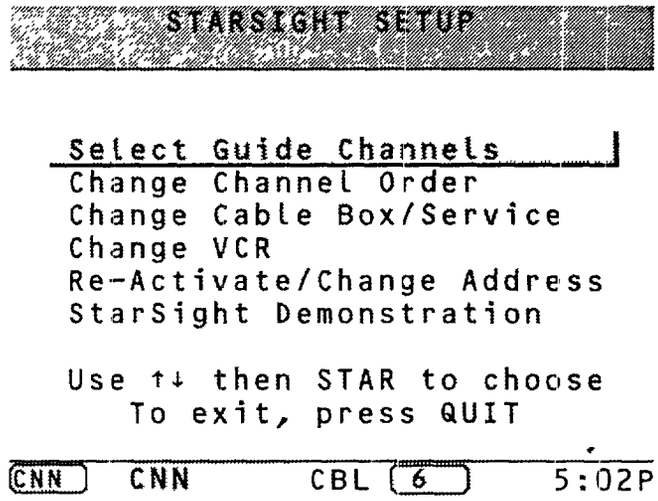
1. While you're recording a program, simply press CHANNEL/Day Up or Down to watch a different program.
2. For more information about the SOURCE menu, refer to the TV portion of this guide.

USING STARSIGHT WITH THE UNIVERSAL REMOTE

Selecting and deselecting channels

StarSight allows you to remove channels that you rarely or never watch. When a channel is removed, it will no longer appear in StarSight Guides, nor will it appear when you flip through channels. To increase the amount of information for individual programs that you watch, you should deselect channels that you seldom or never watch.

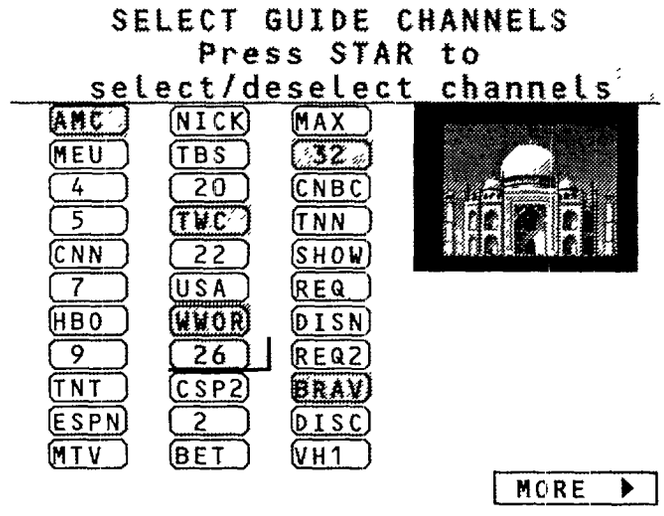
1. Press TO DO until you see the StarSight Setup menu. "Select Guide Channels" will be highlighted.



2. Press STAR to display your channel lineup.

3. Press ◀, ▶, ↑, or ↓ to highlight the channel you want to remove, and press STAR. The background color will change, indicating that the channel is deselected.

The PIP window shows a view of the highlighted channel.



4. If you change your mind, just highlight the channel again and press STAR. The background will return to green, and the channel will once again be selected.

NOTE: If you later add back a channel, you must wait 4-12 hours to collect program information for that channel. That channel now displays at the top of your channel list in the guides.

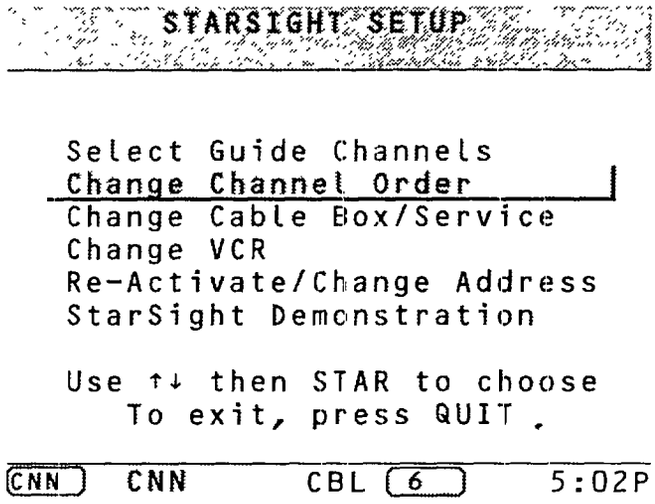
5. Press QUIT/SEQ twice to resume watching TV.

USING STARSIGHT WITH THE UNIVERSAL REMOTE

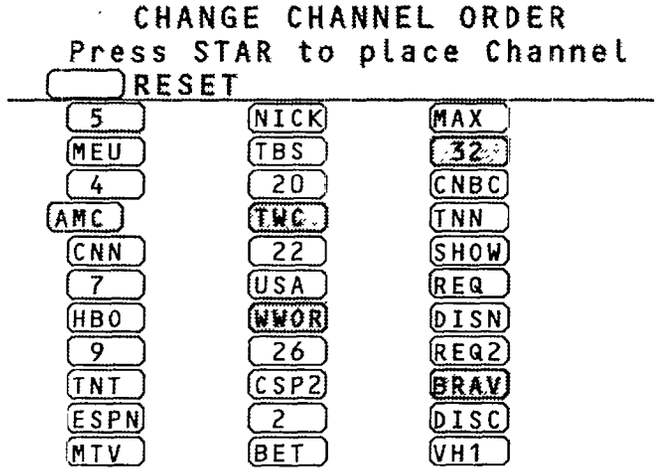
Changing the channel order

You can list your channels on the Grid Guide in any order you want. Your channels will also be in this order as you switch from channel to channel.

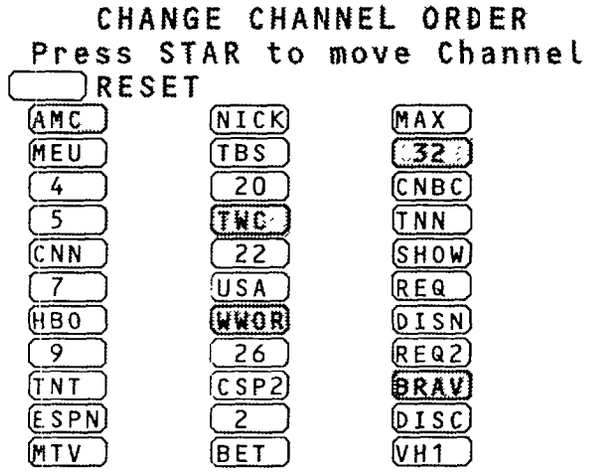
1. Press TO DO until you see the StarSight Setup menu.
2. Press ↓ to highlight "Change Channel Order," and press STAR to display your list of channels.



3. Press ◀, ▶, ↑, or ↓ to highlight the channel you want to move, and press STAR. The channel will move slightly to the left.



4. Press ◀, ▶, ↑, or ↓ to move the highlighted channel to the new location and press STAR to insert the channel in its new position.
5. Press QUIT/SEQ twice to resume watching TV.



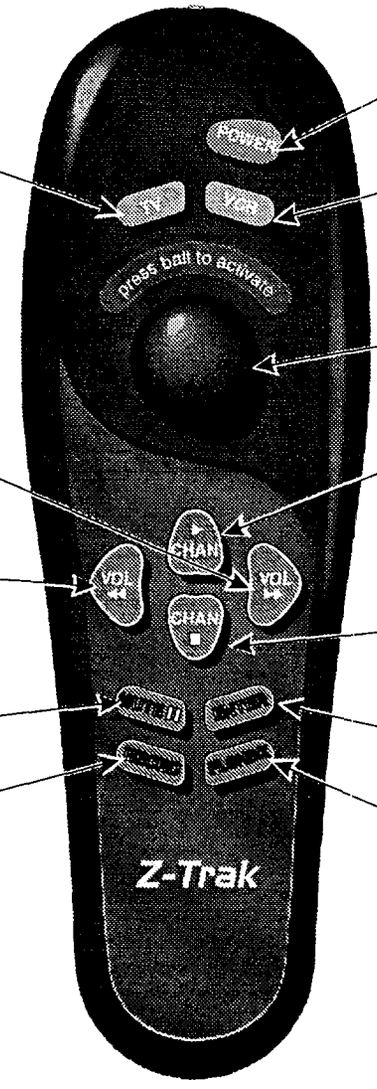
YOU SHOULD ALSO KNOW...

- To reset your channels to the original order, press ↑ to highlight the RESET box at the top of the Change Channel Order screen and press STAR.
- To maximize show descriptions, you should place your most frequently-watched channels at the beginning of your list.

USING STARSIGHT WITH THE Z-TRAK REMOTE

Quick Reference Guide

This section of the guide discusses the use of StarSight with the Z-Trak trackball remote. Operation with the Z-Trak is different than with conventional remote controls. There are far fewer buttons, because the trackball is used to move an on-screen pointer through various menus. The following illustration shows the Z-Trak and its controls.



POWER
When operating TV: TV power On/Off
When operating VCR: VCR power On/Off

TV
Set remote to operate TV

VCR
Set remote to operate VCR

TRACKBALL
Press ball to activate

VOL Up/▶▶
When operating TV: Increase volume
When operating VCR: Fast forward

CHAN Up/ ▶
When operating TV: Go to the next channel
When operating VCR: Play

VOL Down/◀◀
When operating TV: Decrease volume
When operating VCR: Rewind

CHAN Down/ ■
When operating TV: Go to the previous channel
When operating VCR: Stop

MUTE II
When operating TV: TV mute
When operating VCR: Pause

ENTER
When operating TV: Tune TV to a program highlighted on the StarSight screen; when watching TV displays the program title

RECRD
When operating TV: Schedule a program for recording; confirm or cancel recordings
When operating VCR: Sets VCR to record

FLSHBK
When operating TV: Tune TV to the last channel viewed
When operating VCR: TV/VCR Switch

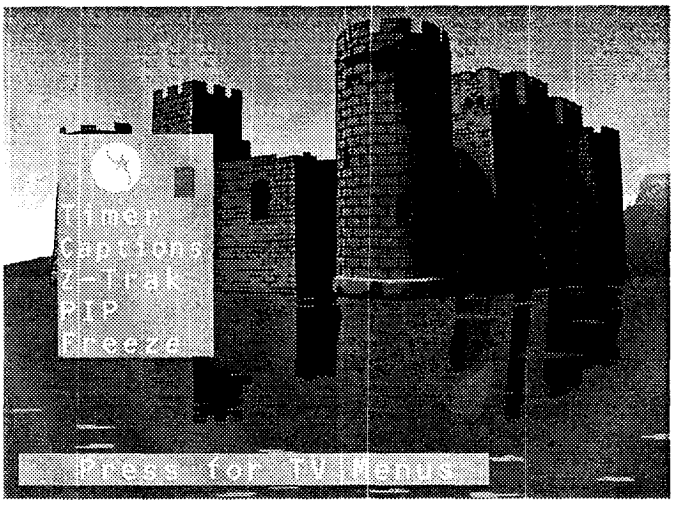
In the following sections, you will be exploring the various screen menus available in StarSight. As you do so, keep in mind the following guidelines (quite literally, "rules of thumb") for Z-Trak operation:

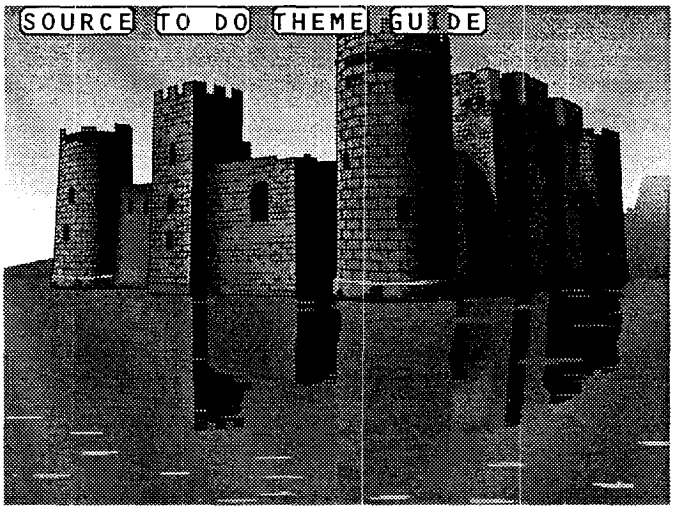
- To display the pointer, press the trackball.
- To highlight an option or make a selection, point to the desired option and press the trackball.
- To close a StarSight screen, point to the QUIT icon and press the trackball.
- To tune a channel, point to a channel icon and press the trackball. You can also simply highlight a program and press the ENTER button to tune that program.
- Many StarSight program guides have more than one screen full (one "page") of information. You can point to the "P↑" or "P↓" icons and press the trackball to flip through the pages. You can also move more slowly by moving the pointer to the top, bottom, or side edges of the screen and continuing to roll the ball in that direction.

Be sure that the pointer is *red*, indicating that you are in StarSight mode. If the pointer is blue, move the pointer to the left side of the TV screen, point to the TV icon and press the trackball.

USING STARSIGHT WITH THE Z-TRAK REMOTE

Getting started with the Z-Trak remote





1. Press the TV button on the top of the remote. This sets the remote's buttons for TV control, rather than VCR control.

2. Press the trackball. The pointer, a small square, appears in the middle of the screen.

3. You can move the pointer by rolling the trackball up, down, left, and right. Point to the left edge of the screen, a column of TV options appears. The icon at the top indicates which mode is active — StarSight or TV. A circle with a star, the StarSight logo, represents StarSight mode; a TV icon represents TV mode. You can switch between the two modes by locating the pointer on the StarSight or TV icon and pressing the trackball. The icon switches, and the pointer changes color. A *red* pointer indicates that you are in StarSight mode. A *blue* pointer indicates TV mode.

   Set the mode to StarSight.

4. As you move the pointer around the screen, you will discover various menus. These menus are not visible on the screen simultaneously. Each Menu appears when you move the pointer on top of it. There are 2 different sets of menus—one for the StarSight mode and one for the TV mode. This section discusses the StarSight options. For information on the TV menus, see the TV portion of this guide.

5. Move the pointer to the top of the screen. At the top you'll see your StarSight icons:

SOURCE: When you press on this option, a selection screen appears which allows you to specify the video/audio source for your TV and the PIP. Simply point to the desired source and press. To return to normal TV viewing, point and press on "EXIT". For more information see the TV portion of the guide.

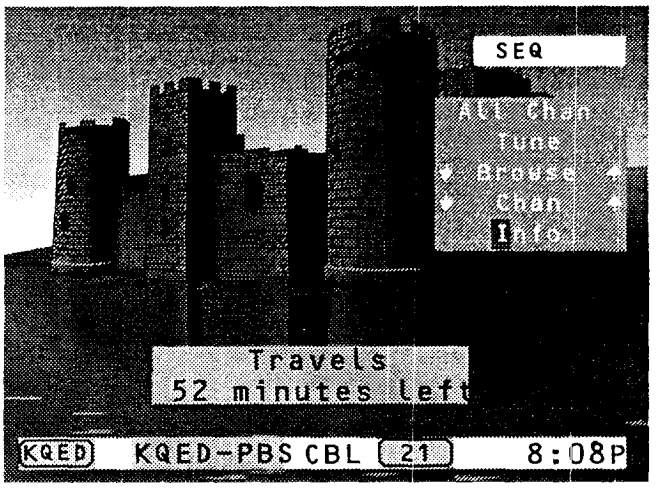
TO DO: When you press on this option, a list of scheduled recordings and series recordings appears.

THEME: When you press on this option, a list of theme categories appears.

GUIDE: When you press on this option, the Grid Guide and Channel Guide appear.

Continued on next page

6. Move the pointer to the right of the screen. The channel icons appear:



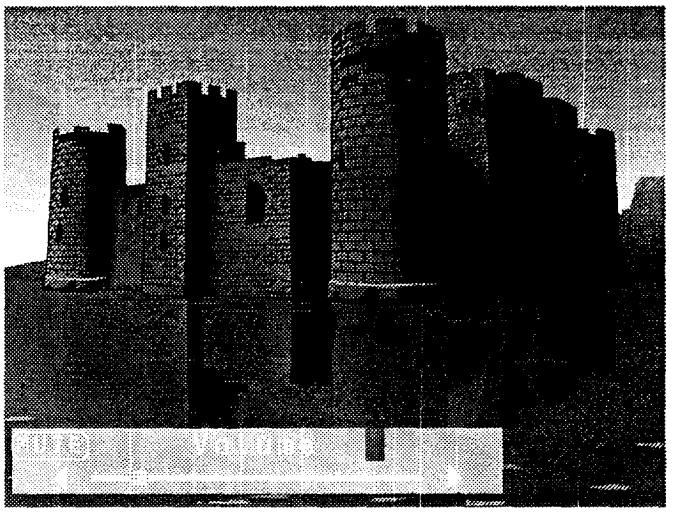
All Chan: Gives you a complete listing of all channels. Point to a channel icon and press the trackball to tune. Or, point to the number pad and press the trackball to tune by channel number.

Tune: When browsing (see below), you can tune immediately to the show being described in the Pop-up, by pointing to "Tune" and pressing the trackball.

Browse ↑ and ↓: Allows you to get information about shows on different channels without actually changing to those channels. Place the pointer on or near an arrow and press the trackball.

Chan ↑ and ↓: Allows you to change channels up or down. Place the pointer on or near an arrow and press the trackball.

Info: Displays additional program information. Move the pointer to "Info" and press the trackball.



7. Move the pointer to the bottom of the screen. The volume control appears. To adjust the volume, point to the desired volume level on the slider bar and press the trackball. Point to "MUTE" and press the trackball to turn the sound off completely.

8. Move the pointer toward the middle of the screen to make the menu disappear.

9. Press the trackball to make the pointer disappear.

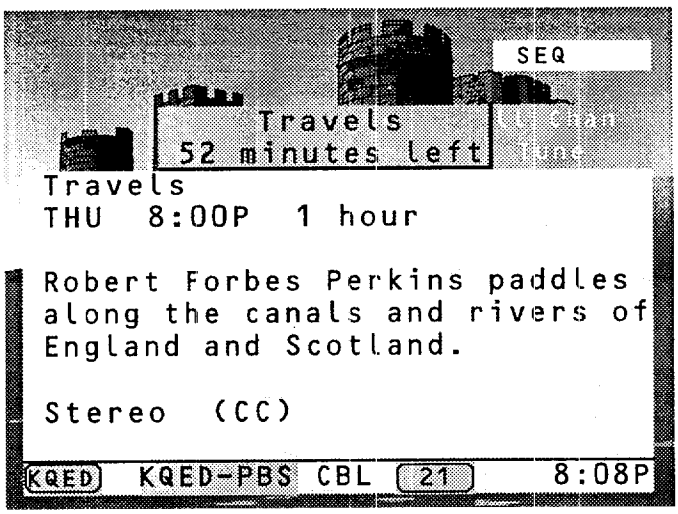
USING STARSIGHT WITH THE Z-TRAK REMOTE

Finding out more about what you're watching: Channel Pop-Ups

1. Move the pointer to the right edge of the screen. You'll see the program title and time remaining "Pop-up".

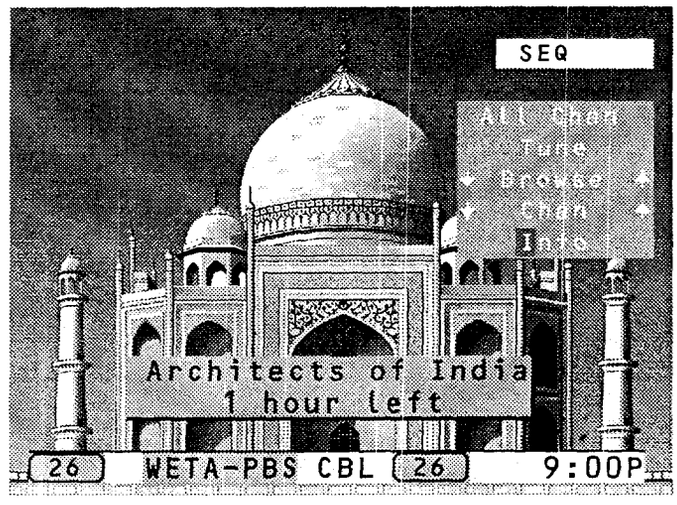
2. Point to the "Info" box and press the trackball. The Pop-up changes to provide more detailed information.

3. Move the pointer toward the middle of the screen. The Pop-up disappears.



USING STARSIGHT WITH THE Z-TRAK REMOTE

What's on when you change channels: Grazing

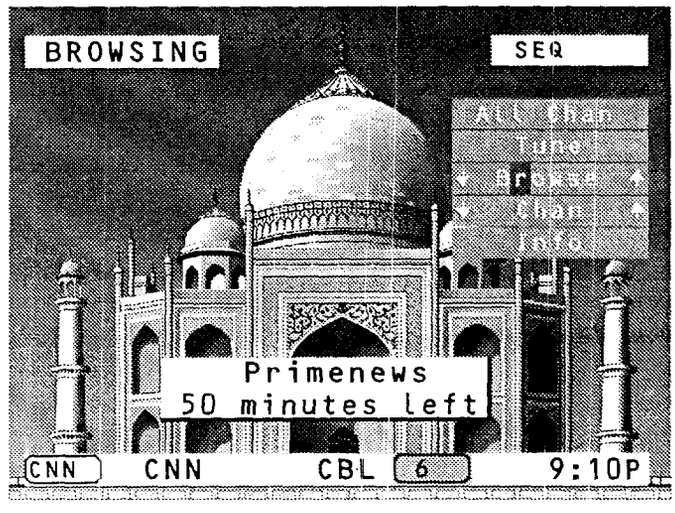


1. Move the pointer to the right edge of the screen. You'll see the channel display.
2. Point to the "Chan" box and place it on or near the ↑ or ↓ symbol. Press the trackball to change channels. The Pop-up for the new program automatically displays.
3. Point to the "Info" box and press the trackball to get even more information on the program.
4. Move the pointer toward the center of the screen, and the Pop-up disappears.

YOU SHOULD ALSO KNOW...

- If you press on "Info" and then change channels, you'll get full program descriptions while you're channel-surfing.

What's on without changing channels: Browsing



1. Move the pointer to the right edge of the screen. You'll see the channel display.
2. Point to the "Browse" box and place it on or near the ↑ or ↓ symbol. Press the trackball to see what's on other channels. Notice that you will continue to see your presently-tuned program, but will get a Pop-up for a program on a different channel.
3. Keep the pointer on "Browse" and press the trackball as many times as you'd like (or hold-down the trackball) to see Pop-ups for different programs.
4. Point to the "Info" box and press the trackball while the Pop-up is displayed to get even more information on the program.
5. Press on "Info" again or continue browsing, and the Pop-up disappears.
6. Move the pointer toward to the center of the screen and the channel display disappears.

YOU SHOULD ALSO KNOW...

- To go directly to the program you see in the Pop-up, simply press the ENTER button on the remote control. Or, point to "Tune" and press the trackball.
- The program title Pop-up appears in yellow for the currently tuned program.

USING STARSIGHT WITH THE Z-TRAK REMOTE

Finding out what's on all channels: Grid Guide

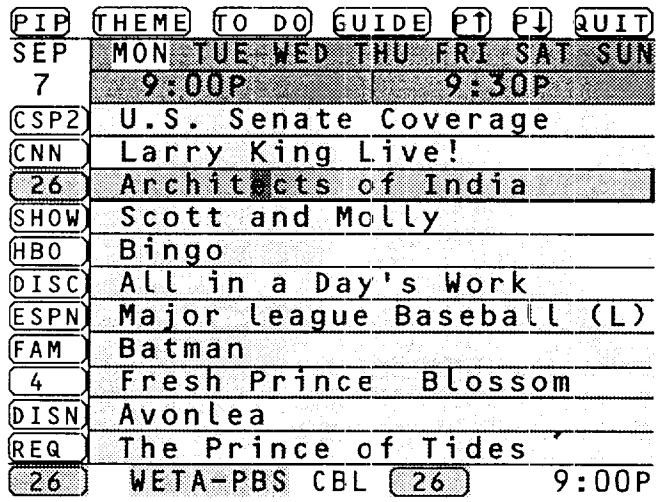
You can use StarSight to see what's on right now, the rest of today and the next six days, and what the programs are about.

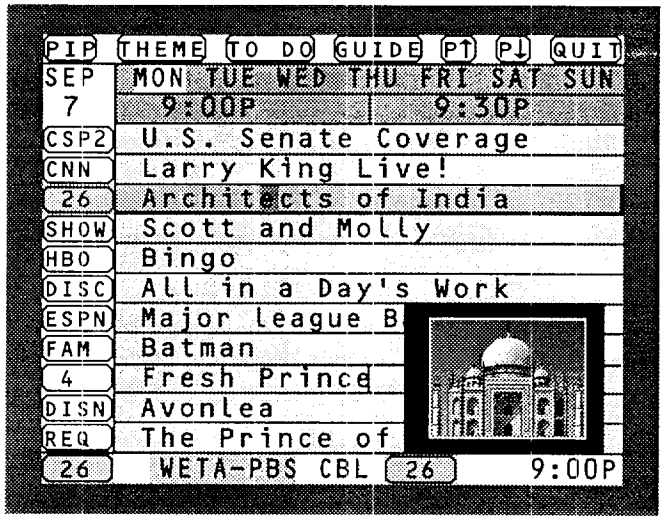
1. Move the pointer to the top of the screen and point to "GUIDE". Press the trackball to see a full listing of all programs, known as the "Grid Guide."

2. To highlight a specific show, point to that show and press the trackball.

3. Once a show is highlighted, point to the highlighted show and press the trackball to get information about it. Press the trackball on the information Pop-up to make the Pop-up disappear.

4. Point to "PIP" and press the trackball to view the currently highlighted show.





5. To view more "pages" of the grid, that is, to see listings for additional channels, point to "P↑" or "P↓" and press. You can also move the listings up and down more slowly by moving the pointer to the top or bottom edge and continuing to roll the ball in that direction.

YOU SHOULD ALSO KNOW...

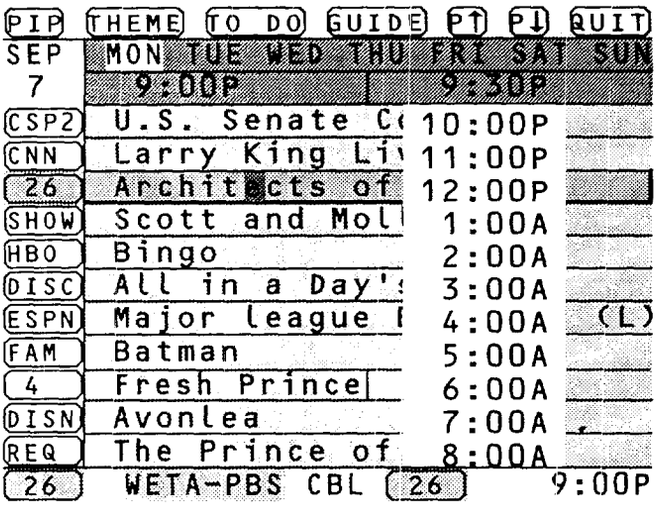
- If you have a cable box, the PIP window will only show your presently tuned channel.
- Press RECORD to record any highlighted show.

Continued on next page

6. To view listings for a different time slot, point to one of the time slots shown directly below the day of the week line. Press the trackball. You will get a list of the next eleven time slots. Point to one and press the trackball; the Grid Guide will shift to that time slot.

NOTE: You can only move forward in time with this feature.

You can also move forward or back more slowly by moving the pointer to the right or left edge and continue to roll the trackball in that direction.



7. To learn about shows on any of the next six days point to the desired day ("MON", "TUE", etc.) and press the trackball.

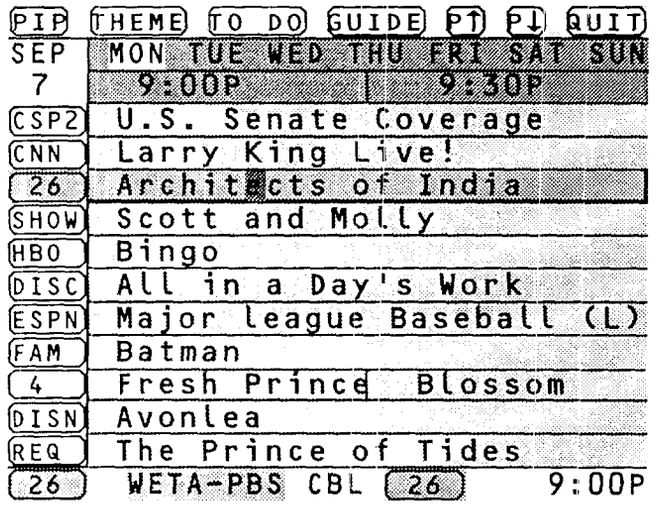
8. To exit the Grid Guide, point to "QUIT" at the top of the screen and press the trackball.

Choosing a program: Tuning from a Guide

1. Point to "GUIDE" and press the trackball to see the Grid Guide.

2. Point to the desired channel icon (left edge of the Grid Guide) and press the trackball. StarSight will tune directly to that channel.

3. Remember, you can make other channels visible in the Grid Guide by either using P↑ or P↓, or by moving the pointer to the top or bottom edge of the Guide and rolling the trackball.



YOU SHOULD ALSO KNOW...

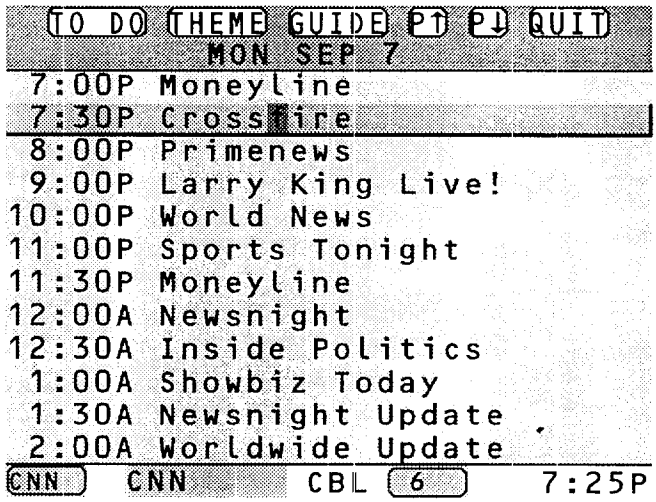
- You can also tune directly to a program by highlighting that program and pressing the ENTER button.

USING STARSIGHT WITH THE Z-TRAK REMOTE

Viewing what's on a specific channel: Channel Guide

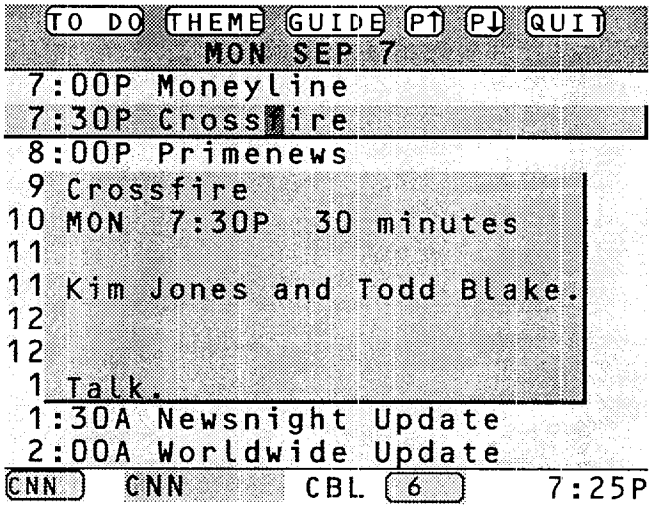
Do you have a favorite channel? Showtime? Nickelodeon?

Whatever it is, StarSight can show you a channel's schedule for an entire week.



1. Move the pointer to the top of the screen and point to "GUIDE". Press the trackball to see the Grid Guide. Press the trackball again on "GUIDE" to see the Channel Guide.

2. To highlight a specific show, point to that show and press the trackball.



3. Once a show is highlighted, point to the highlighted show and press the trackball to get information about it. Press the trackball again on the information Pop-up to make the Pop-up disappear.

4. To view more "pages" of the Channel Guide, point to "P↑" or "P↓" and press the trackball. To view program titles one by one, point to the top or bottom edge of the Guide, and continue to roll the trackball in that direction.

5. To exit the Channel Guide, point to "QUIT" at the top of the screen and press the trackball.

YOU SHOULD ALSO KNOW..

- To see information for another channel, press the CHAN ↑ or ↓ buttons on the Z-Trak remote.
- To tune to the channel in the guide, simply press the ENTER button on the remote, or point to the channel banner at the bottom of the screen and press the trackball.
- To go back and forth between the Channel Guide and the Grid Guide, point to "GUIDE" and press the trackball.
- Press RECORD to record any highlighted show.

USING STARSIGHT WITH THE Z-TRAK REMOTE

Choosing programs by category: Theme Guide

What's your favorite kind of program? Sports? Movies? Comedies?

StarSight gives you a selection of categories to help you pick your favorite shows for the coming week.

1. Move the pointer to the top of the screen and point to "THEME". Press the trackball to see the StarSight Themes Menu.

2. Point to your theme selection and press the trackball to see the categories for that Theme.

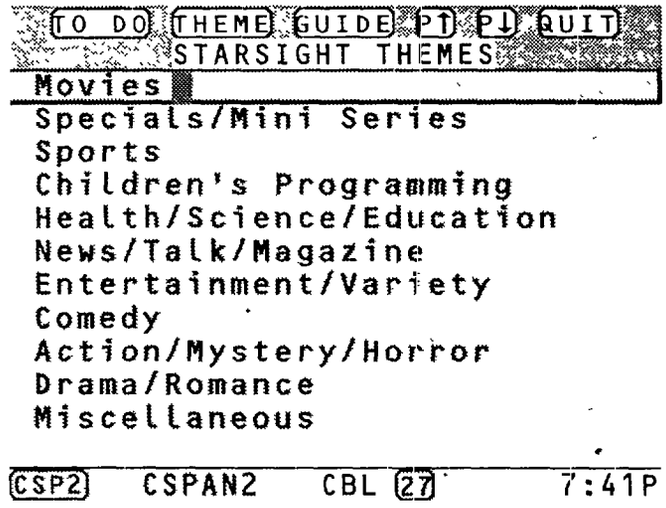
3. Point to a category and press the trackball to see the shows for that category.

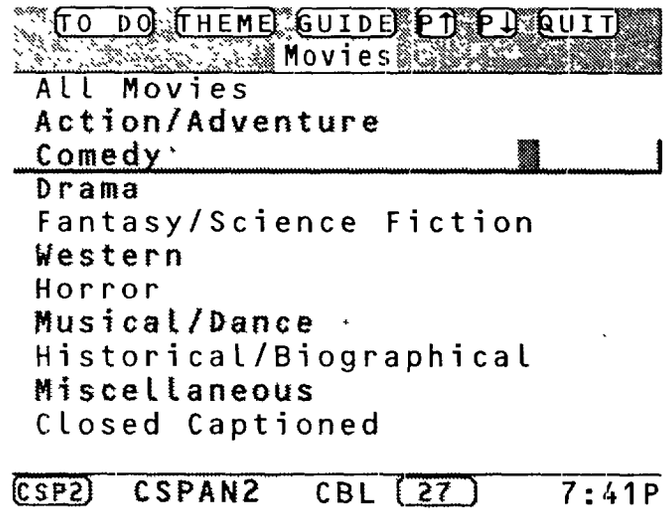
4. To highlight a specific show, point to that show and press the trackball.

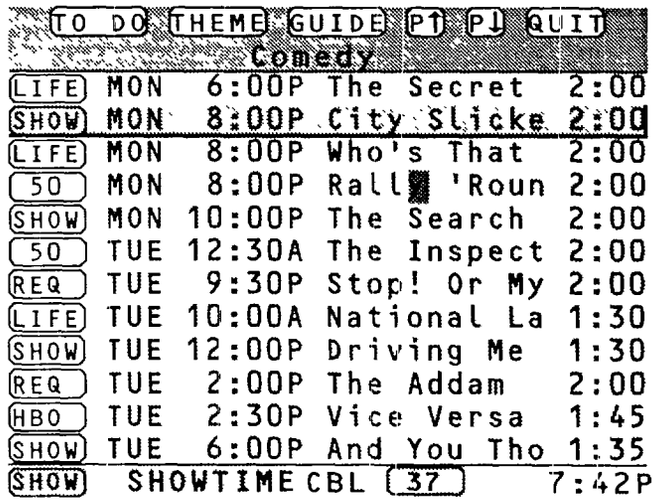
5. Once a show is highlighted, point to the highlighted show and press the trackball to get information about it. Press the trackball again on the Information Pop-up to make the Pop-up disappear.

6. To see other pages of program information for the same theme and category, use "P↑" or "P↓". To view program titles one by one, point to the top or bottom edge of the Guide and roll the trackball.

7. To exit the Theme Guide, point to "QUIT" at the top of the screen and press the trackball.







YOU SHOULD ALSO KNOW...

- To tune to the channel in the guide, point to a channel icon or the channel banner at the bottom of the screen and press the trackball. Or, you can simply highlight the desired program and press ENTER on the remote.
- Press RECORD to record any highlighted show.

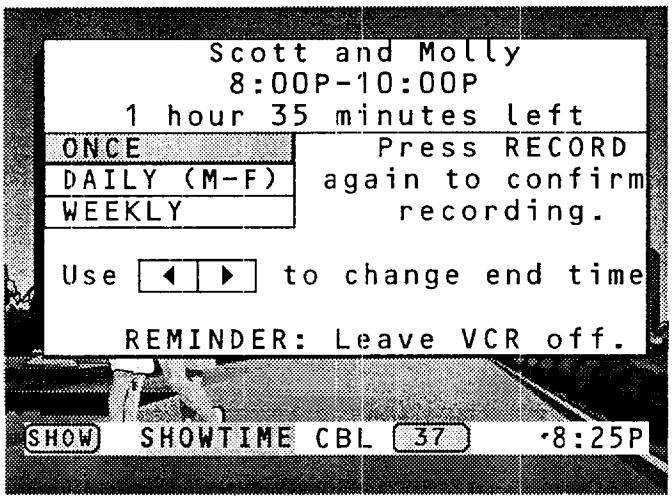
USING STARSIGHT WITH THE Z-TRAK REMOTE

Recording what you're watching: Current Recording

IMPORTANT: Your VCR must be turned off when you're not using it.
Also, be sure you have inserted a blank videotape in the VCR.

1. Press the RECORD button on the Z-Trak remote to see a Recording Pop-up. Notice the yellow highlight bar is on ONCE; only the current show will be recorded. Pointing and pressing on "DAILY" schedules the current show for recording today and each day at this same time. Pointing and pressing on "WEEKLY" schedules it for recording today and once a week at this time.

2. Press the RECORD button, or point to "RECORD" and press the trackball to confirm your recording. StarSight will turn on your VCR and begin recording in a few seconds.



3. To cancel a recording in progress, press the RECORD button. Point to the red area of the Pop-up and press the trackball to confirm.

YOU SHOULD ALSO KNOW:

- You can watch a program while StarSight is recording a different program. (See the section on "Watch and Record".)
- If you're recording an event that might run over (for example, a baseball game) point to the ▶ and press the trackball to lengthen the end time of the recording.

Scheduling a recording from StarSight guides: Future Recording

IMPORTANT: Your VCR must be turned off when you're not using it.
Also, be sure you have inserted a blank videotape in the VCR.

1. Call up the Grid Guide, Channel Guide, or Theme Guide as discussed in the previous sections.

2. Highlight a current or future program in any of these Guides.

3. Press the RECORD button on the Z-Trak remote to see a Recording Pop-up for the selected program.

4. Highlight your series option, "ONCE", "DAILY" or "WEEKLY". "ONCE" schedules just the one highlighted program for recording. "DAILY" schedules it to be recorded each day. "WEEKLY" schedules it for recording once a week.

5. Press the RECORD button or point to "RECORD" and press the trackball to confirm your recording.

YOU SHOULD ALSO KNOW...

- If you're recording an event that might run over (for example, a baseball game) point to the ▶ and press the trackball to lengthen the end time of the recording.

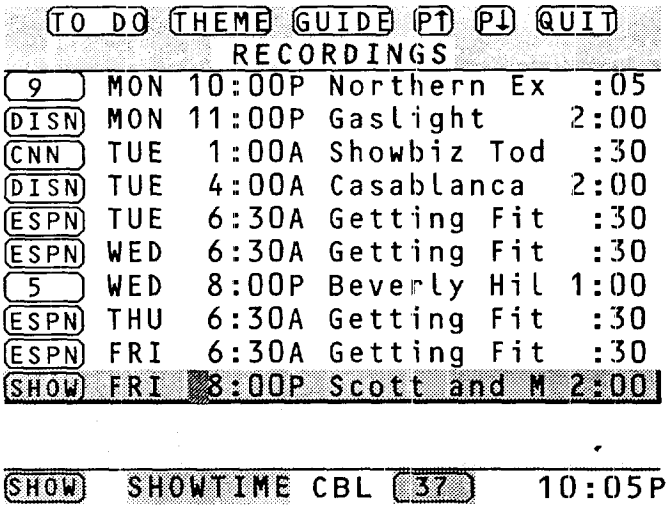
USING STARSIGHT WITH THE Z-TRAK REMOTE

Reviewing your schedule of individual recordings: Recordings List

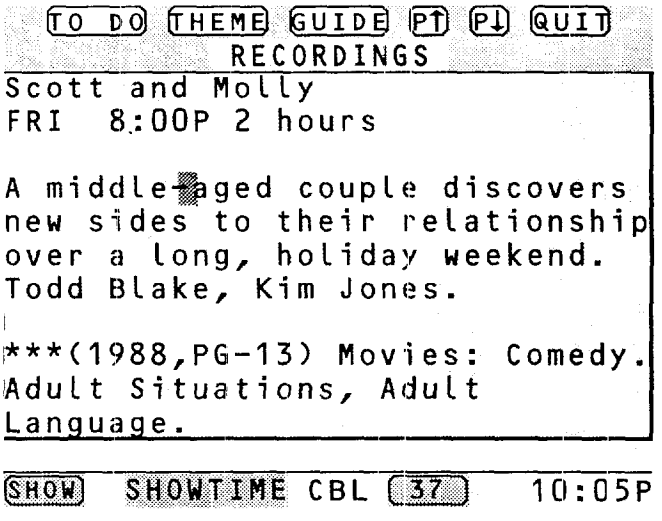
StarSight keeps track of up to 25 scheduled recordings, including the four most recently completed.

1. Move the pointer to the top of the screen and point to "TO DO". Press the trackball to review your scheduled recordings.

2. Point to an entry and press the trackball to highlight a recording.



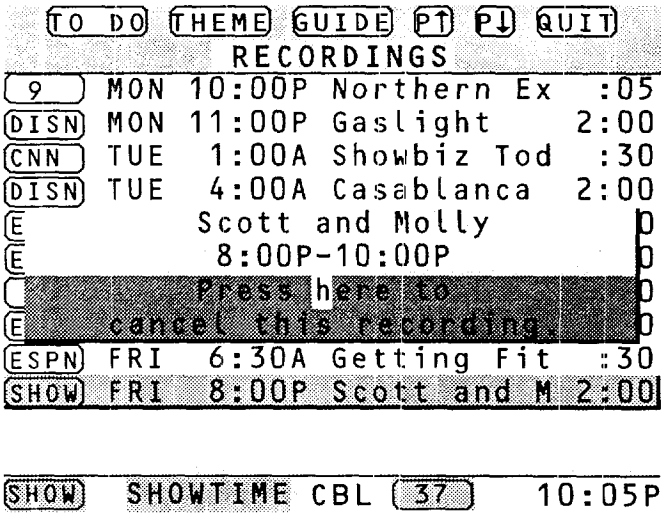
3. Point to the highlighted recording and press the trackball to see information about the program.



4. To cancel a scheduled recording, highlight the program scheduled for recording and press the RECORD button on the Z-Trak remote. You will see a Pop-up asking you to confirm the cancellation. To confirm, point to the red area and press the trackball.

5. To view a list of your last four completed recordings, press on "P↑", or roll the pointer past the top of the list. Programs with a white background are scheduled to be recorded. Those with a gray background have already been recorded.

6. Point to "QUIT" and press the trackball to resume watching TV.



YOU SHOULD ALSO KNOW...

- If you see a question mark on a scheduled recording, point to "GUIDE" and press the trackball to see why there is a recording mismatch.
- When you return to the Grid Guide, programs scheduled to be recorded, and their time slots, are designated in red as a reminder.

USING STARSIGHT WITH THE Z-TRAK REMOTE

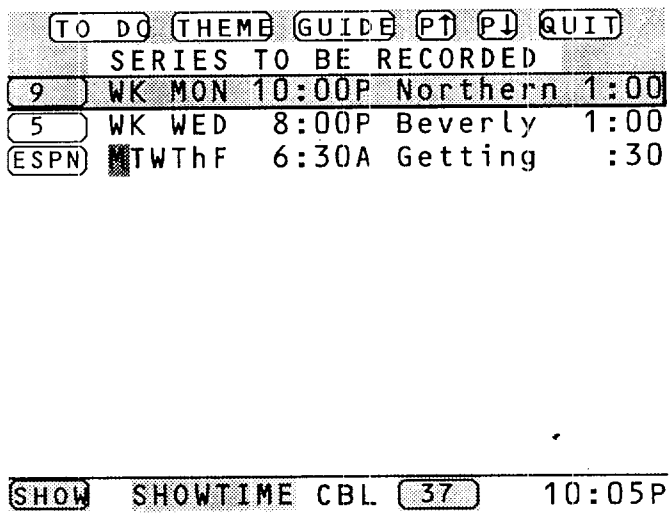
Reviewing daily or weekly series recordings: Series Recordings List

StarSight keeps track of five daily or weekly series recordings.

1. Call up the Recordings list, as shown in the last section. Point again to "TO DO" and press the trackball. You will see the Series Recordings list.

2. To cancel a Series Recording, simply highlight the series and press the RECORD button on the Z-Trak remote. Then point to the red area on the confirmation Pop-up and press the trackball. This automatically cancels all individual recordings within that series.

3. Point to "QUIT" and press the trackball to resume watching TV.



How to watch one channel while recording another: Watch and Record

If you have a cable box:

1. After recording begins, move the pointer to the top of the screen and point to "SOURCE." Press the trackball. The pointer will now appear in blue.

2. Point to "Ant/Cable 2" and press the trackball. You can now watch any unscrambled channel.

3. Move the pointer to the right side of the screen to change channels. (NOTE: you will not be able to use StarSight functions while on the "Ant/Cable 2" source.)

4. To resume normal viewing once the recording has completed (and to resume using StarSight) point to the "SOURCE" symbol at the top of the screen and press the trackball. Point to "Ant/Cable 1" and press the trackball.

If you do not have a cable box:

1. While you're recording a program, simply change channels to watch a different program. You can still access the StarSight menus while your recording is in progress. Of course, don't attempt to record another current program.

2. For more information about the SOURCE menu, refer to the TV portion of this guide.

   NOTE: If you only see snow, put your TV/VCR switch on the VCR in the TV position.

CHANGING YOUR EQUIPMENT SETUP

What you should do when you get a new VCR

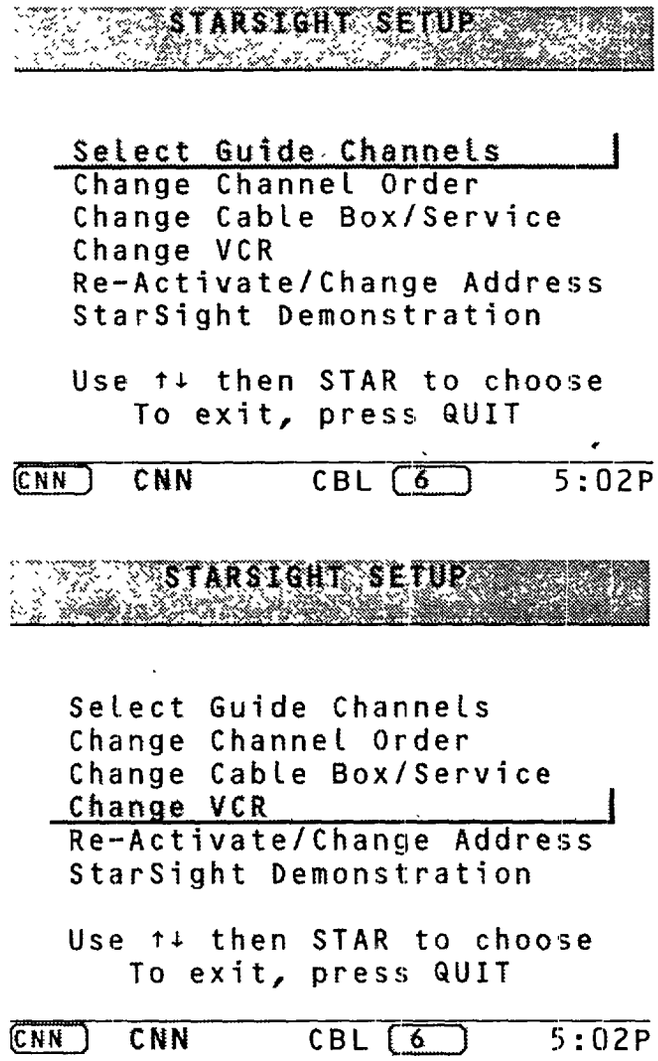
NOTE: THIS PROCEDURE REQUIRES THE USE OF THE UNIVERSAL REMOTE.

Make sure your Remote Emitter is positioned 2-3 inches in front of your new VCR. Find the code(s) for your brand of new VCR on the "VCR Code" chart and write the code(s) here. _____

1. Press TO DO until you see the StarSight Setup menu.

2. Press the ↓ to highlight "Change VCR."

3. Press STAR and follow the on-screen instructions.



YOU SHOULD ALSO KNOW...

- It is important that your equipment works properly during each test. For example, make sure your VCR turns on. If the equipment does not respond, you need to try another VCR code and test your VCR again.
- Remember to reprogram your remote so it can operate your new VCR. See the section on "Universal Remote Control" in the TV portion of this guide.
- If you have tried all the codes and need assistance, call the StarSight Help Desk at (800) 628-STAR.

CHANGING YOUR EQUIPMENT SETUP

What you should do when you change your cable box or service or when you move

NOTE: THIS PROCEDURE REQUIRES THE USE OF THE UNIVERSAL REMOTE.

If you are changing your cable box, find the code(s) for your brand of new Cable Box on the "Cable Box Code" chart and write the code(s) here._____

1. Press TO DO until you see the StarSight Setup menu.

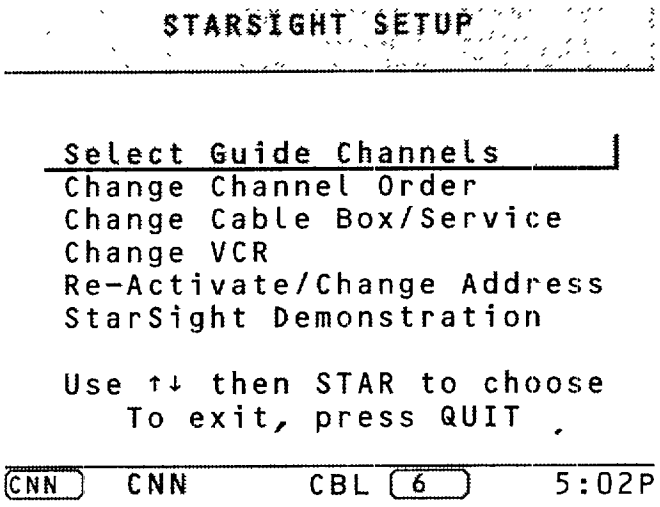
2. Press the ↓ to highlight "Change Cable Box/Service."

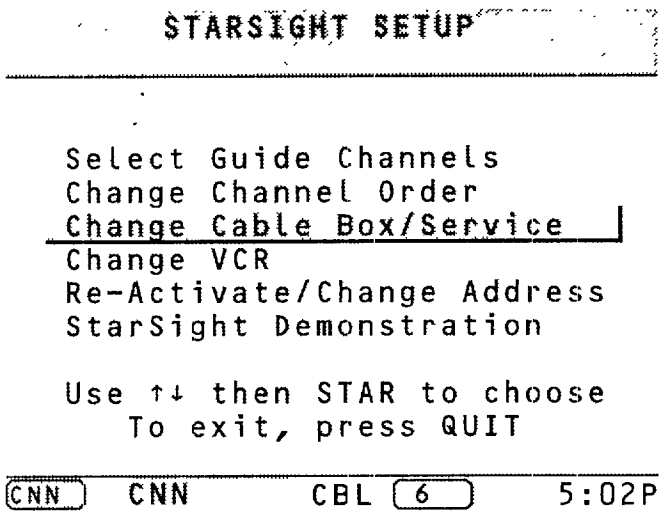
or

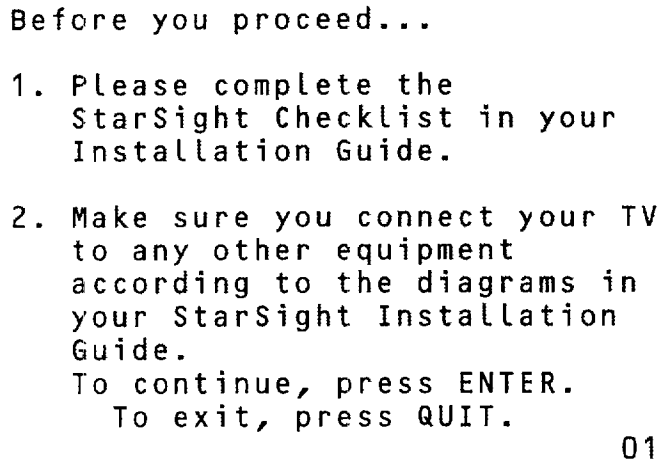
Press the ↓ to highlight "Re-Activate/Change Address."

3. Press STAR.

4. Follow the on-screen instructions.







TROUBLESHOOTING

Before calling for service...

1. LEAVE YOUR CABLE BOX ON AT ALL TIMES.
2. LEAVE YOUR VCR OFF WHENEVER YOU ARE NOT WATCHING A VIDEOTAPE.
3. DO NOT PLUG YOUR TV INTO THE POWER PLUG ON THE BACK OF YOUR CABLE BOX.

Installation Problems

Problem	Try this
StarSight is not controlling my cable box and VCR.	Make sure the Remote Emitter is plugged into the Starsight Control Port on the back of your TV.
	Check the placement of your Remote Emitter(s)—the bulbs should be facing and a few inches in front of the front panel of your VCR and Cable Box.
	Make sure you have completed the equipment test with the proper code for your brand of equipment. See "Cable Box Codes" and "VCR Codes" charts.
My VCR turns off and on, but won't change channels.	If you have a Cable Box, your VCR does not need to change channels. (The Cable Box will change channels.)
	Try additional VCR codes until you pass the VCR tuning test. See "VCR Codes" chart. To test the code see "Changing Your Equipment Setup".
	Your VCR must be capable of direct tuning, i.e. your VCR's original remote control must have a 10 digit number pad.
No Picture - "snow."	Check the connections between your TV, VCR and/or Cable Box.
	Run "Auto Program" for your TV's "Ant/Cable 1" source. If your Setup is #4, then you should also Auto Program your "Ant/Cable 2" source. (See the TV portion of the guide.)
I do not get any channels above 13.	If you have a Cable Box, tune your TV to channel 3, or to the cable box output channel.
	Run "Auto Program" for your TV's "Ant/Cable 1" source. If your Setup is #4, then you should also Auto Program your "Ant/Cable 2" source. (See the TV portion of the guide.)
My TV turned off during Cable Box testing.	Make sure your TV is not plugged into the back of the Cable Box or into a power outlet that is controlled by a light switch. **NOTE**: LEAVE YOUR CABLE BOX ON AT ALL TIMES.
I can't make StarSight appear using the Universal remote control.	Press STAR to get your remote control to operate StarSight.
	Press TV/VCR Source and select "Ant/Cable 1" or StarSight if named.
	If you press a button on the remote control and its red light does not appear, then you need to change your remote control's batteries.
	Make sure you have activated StarSight! (See Installation Step 3, "Activate StarSight".)
I can't make StarSight appear using the Z-Trak remote control.	Check that the on-screen pointer is *red*, indicating StarSight mode.
	If the pointer is *blue*, move it to the TV options menu on the left side of the screen. Point and press on the TV icon. The pointer will turn red and the StarSight logo will appear indicating StarSight mode.

Refer to the next page for Operation Problems.

TROUBLESHOOTING

Operation Problems

Problem	Try this
I've registered for StarSight but don't have any program data yet.	1. Make sure your TV is turned off or tuned to PBS in order to receive information. It may take anywhere from 4-12 hours to initially get the full 7 days of information. For best results wait overnight. Check the PBS channel for good picture. 2. If you have a cable box, make sure the cable box automatically tunes to the PBS channel when TV is turned off.
The background color for the date and time are red.	Your TV lost power momentarily. StarSight will correct the time and date when your TV is turned off for a few minutes.
There are some blank spots in StarSight's guides.	StarSight may not have received all the program information. Your TV will collect program information whenever the TV is turned off.
StarSight's list of channels does not match those that appear on my TV.	Call the StarSight Help Desk at 1-800-628-STAR, or fax corrections directly to 1 (800) 229-9640.
The entire show did not record.	Make sure you have enough tape to record the whole program. StarSight records programs based upon the scheduled start and stop times. If a program may run overtime, you should extend the end time of your recording. (See the section "Current Recording" or "Future Recording".)
I have a Cable Box, and want to watch one program while recording another.	While a recording is in progress, change your source to "ANT/CABLE 2" to watch a different non-scrambled program.
I canceled the recordings of all episodes of a series, but new episodes for that same series are still being recorded.	You must cancel the whole series from the Series to be Recorded list. See the section "Series Recordings List".
A red question mark appears on a program title in the Recordings list.	The program information in the Recordings list does not match the program information in the Grid Guide. Position the highlight bar on the question mark and press MENU/GUIDE to see the program that will be recorded. If you don't want to record this program, press record to cancel the recording.
I can't control my VCR with my remote control.	You need to program your remote control for your particular brand of VCR. (See the sections on Remote Controls in the TV portion of this guide.)
I can't see the videotape when playing back on the VCR.	1. Check the connections between your TV and VCR. 2. Make sure your TV is on channel 3 or 4. 3. If you still do not have a picture, try a different videotape that you know has a good picture.
The program wasn't recorded.	1. YOUR VCR MUST BE LEFT OFF WHENEVER YOU ARE NOT WATCHING A VIDEOTAPE. Otherwise, a recording will not take place. Make sure you have a videotape with tape remaining. 2. Check the placement of your Remote Emitter. Has it fallen out of place? 3. Make sure you are confirming the recordings when you schedule a program for recording. 4. Check your Recordings List to see if you actually did schedule a recording for that specific program. 5. For a current recording, make sure you don't press any buttons until the recording has begun. 6. If you have changed your VCR, you will probably need to change the VCR code.
My picture turns to "snow" when recording begins.	To watch TV while recording, wait until recording has begun, then set the "TV/VCR" switch on your VCR to "TV." Or, on your Universal remote control, press the "VCR" button and then the "TV/VCR Source" button. (So the VCR is in "TV" mode.)
StarSight keeps playing a demonstration, and I want to stop it.	If you are running a Quick StarSight Demo, press any key. If you are running a Continuous Retail Demo (recommended for retailers only), wait for the message "To cancel this demonstration, press any button now," and press any button on the remote.

Refer to the previous page for Installation Problems.