PROSCAN ®

Monitor/Receiver Owner's Manual

Important Information

WARNING

To prevent fire or shock hazard, do not expose this TV to rain or moisture.

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.
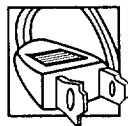
To prevent electric shock, match wide blade of plug to wide slot, fully insert.

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

Cautions

Do not defeat the safety feature of the plug. The wide blade fits into the wall socket only one way. If you need an extension cord, make sure it matches the plug of the TV.

Operate TV only on 120 volts, 60 Hz AC power (normal house power).

For safety reasons, make sure any equipment or accessories connected to this product bears the UL listing mark or if purchased and used in Canada, the CSA certification mark. If in doubt, contact qualified service personnel.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Note To Cable Installer

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Product Registration

Please fill out the product registration card and return it immediately. Returning this card allows us to contact you if needed.

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you ever need them. The numbers are located on the back of the TV.

Model No._____

Serial No._____

Purchase Date: _____

Dealer/Address/Phone:_____

_____

_____

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Table of Contents

The steps below will get your TV connected
and ready for watching.

1. Hook up your TV.

Hook up any antennas or cable to your TV
before you follow the steps below. *Details
are in the Connections Section starting on
page 40.*

2. Plug in the TV.

Plug the cord into the outlet, matching the
wide and the small end of the plug with
the outlet.
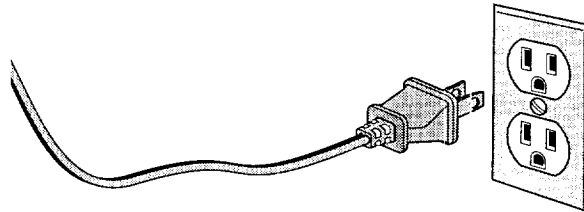
3. Put Batteries in the Remote.

A. Pull off the cover of the battery
compartment.

B. Place the six AAA batteries as shown,
matching the + and − end of each battery
in each compartment.

C. Replace the cover.
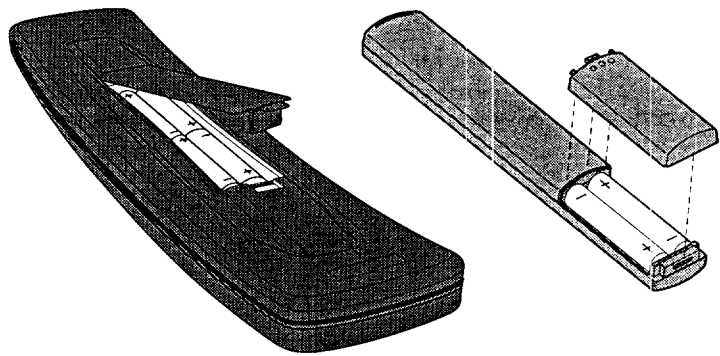
4. Turn on the TV.

Press TV on the Master Remote.

OR

Press POWER on the TV or the small
remote.

5. Place channels in channel scan list (Autoprogram).

A. Hook up an antenna or cable before you
begin these steps or you will not be able to
add channels to the channel scan list.

B. Press TV to set the remote to control the
TV.

C. Press MENU to bring up the main menu.

D. Highlight Installation using the up and
down arrows on the remote. These arrows
are also shown on the screen.

E. Press 8 to select the Installation menu.

F. Highlight Autoprogram.

G. Press 8 to select Autoprogram and start the
TV adding channels to the channel scan
list.

H. Wait until the TV has finished adding
channels by checking the antennas. The
TV will then tune to the lowest channel
found.
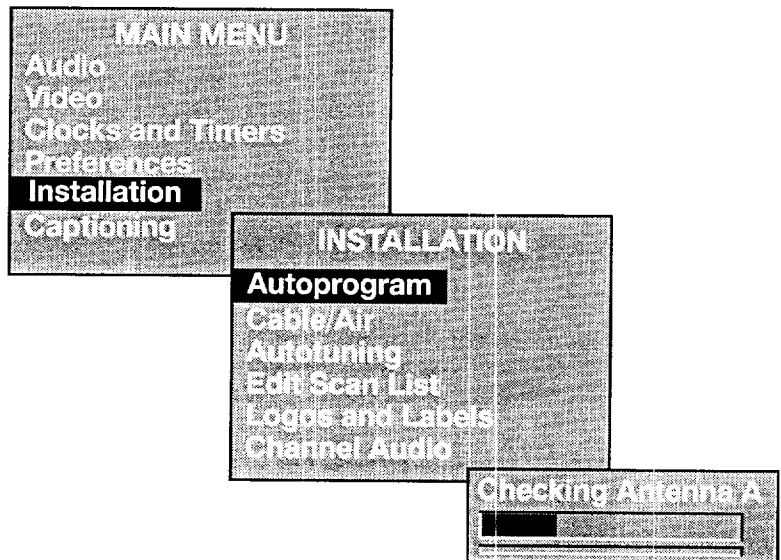
6. Set the Time.

A. Press MENU to bring up the Main Menu.

B. Highlight Clocks and Timers using the remote's up and down arrows.

C. Select Clocks and Timers to enter the Clocks and Timers menu.

D. Highlight and Select Set Time.

E. Enter the Time using the number buttons and by following the menus on the screen.
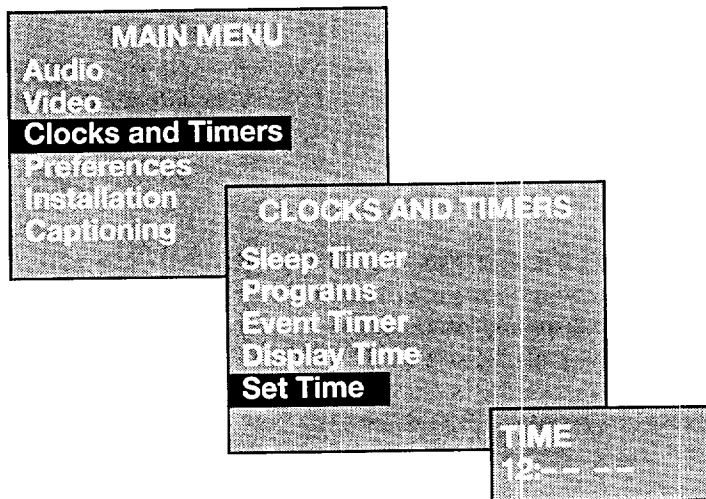
7. Adjust PICTURE TILT.

Picture tilt is used to correct a tilted picture from the effect of the Earth's magnetic field on a large picture tube. The PICTURE TILT STRENGTH and POLARITY switches on the back of the TV compensate for this effect. If the picture appears tilted, follow these steps to improve it.

1. Make sure STRENGTH switch is in the OFF position.

2. Move STRENGTH switch to the LOW position. If this does not fully improve tilt, move STRENGTH switch to HIGH. This should correct tilt. If moving STRENGTH switch makes tilt worse, return it to OFF and go to the next step.

3. Change the position of POLARITY switch. If this improves the tilt but does not fully improve it, move the STRENGTH switch to LOW or HIGH. This should correct tilt.

You may need to reset the switches if the TV is moved or repositioned in the room.

PICTURE TILT
STRENGTH

HIGH

LOW

OFF

PICTURE TILT
POLARITY

+   —
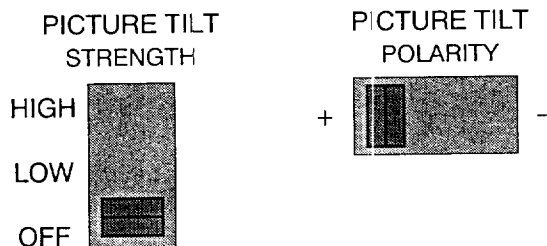
Tour of the Remote

1. Component Buttons

Pressing these buttons allow you to control components such as a VCR, laserdisc player, cable box, or audio equipment. You must press one of these buttons to control the component.

2. Wide Screen Features

These six buttons adjust the picture on your screen. The drawings on the remote buttons show how your picture will change when you press the button. A second press of CINEMA, SPLIT SCREEN, POP or PIP brings up a controls menu.

3. Channel and Sound Controls

You can control the sound and channels on your TV with these buttons.

4. Menu Navigation Buttons

These buttons will appear on the screen with the menus. Use these to move through the menus.

5. Menu and Help Buttons

Use these buttons to adjust the TV's menus and features.

6. VCR, Laserdisc Player and Audio Equipment Buttons

Use these buttons to control the playback of tapes and discs.
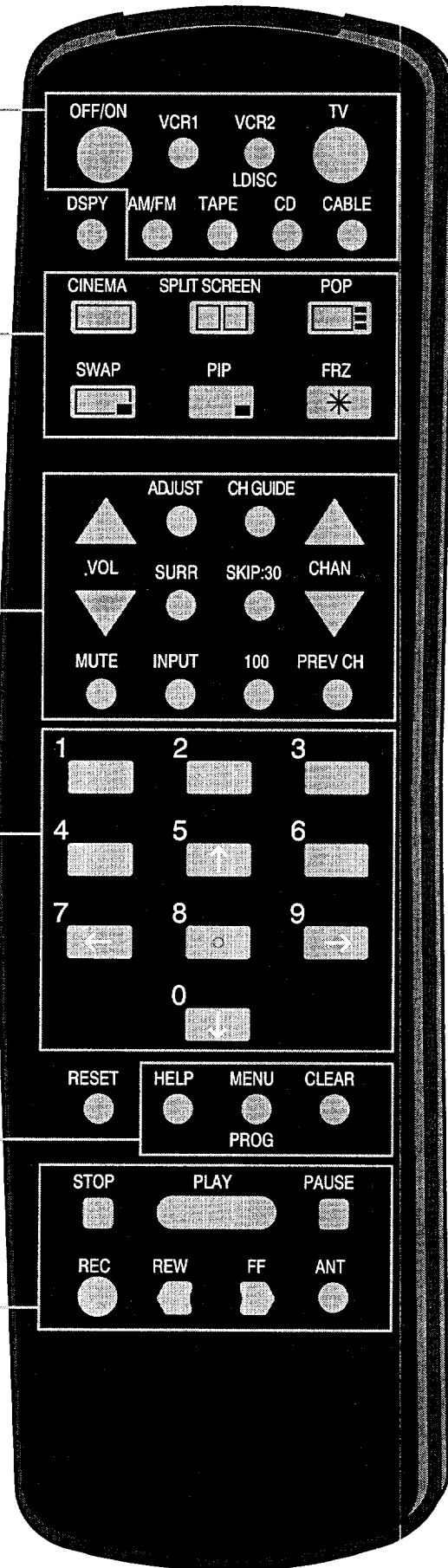
Tour of the Menu System

You can use the Menu system to adjust the sound and picture, set the time and timers, setup scan lists, and adjust closed captioning.

In the Menu system, a set of navigation buttons are shown on the screen to help you move through the menus using the Master Remote. These buttons are shown at the right.

Using the Menu System.

A. Press MENU to bring up the menu system.

B. Use the navigation buttons shown at the right to adjust and change the features in the menu.

C. The SELECT (8) button is used to select entries. In some cases, this brings up another menu.

For example, when you select Clocks and Timers in the main menu, the Clocks and Timers menu appears on the screen.

D. The navigation buttons will change for different menu items. For example, when setting the time, the numbers appear on the buttons to help you enter the time.

E. Refer to the navigation buttons for information on entering or adjusting menu items.

TV Screen

Menu System

Navigation Buttons

TV Screen

Clocks and Timers Menu

Navigation Buttons show numbers to help Set the Time
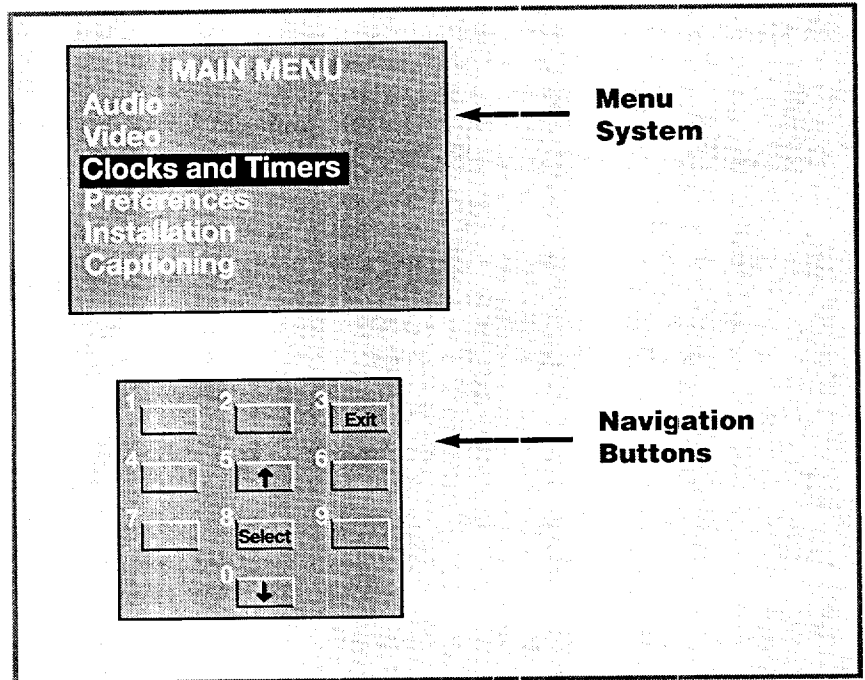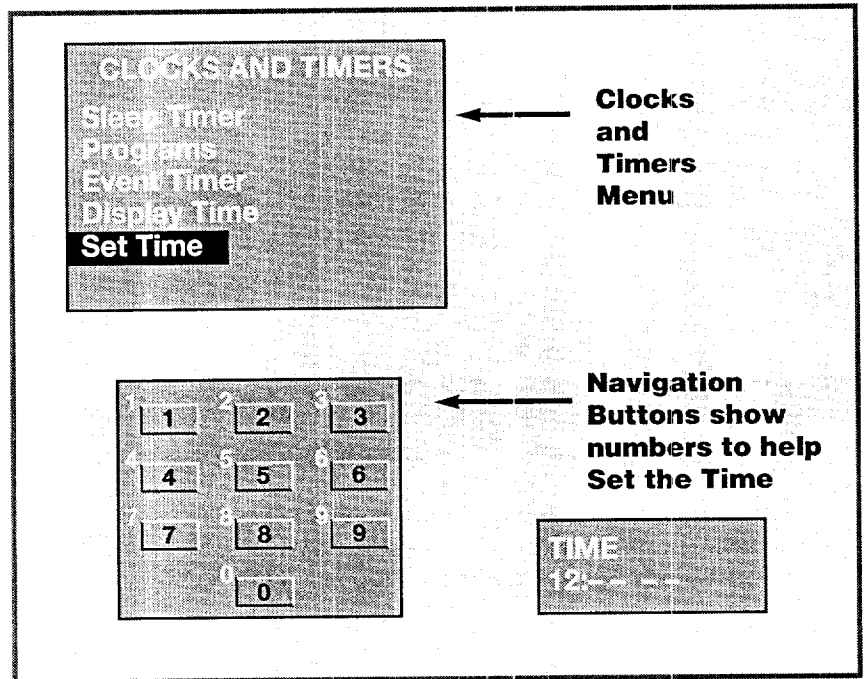
Tour of the Help System

The Help system provides a basic guide for the TV's special features.

Use Help for a quick tour or for basic information about the remote, menus and wide screen features. The Help system also provides a glossary to define buttons, words, or features.

Using the Help System.

A. Press HELP on the remote to bring up the Help system.

·B. Select one of the Help features using the number buttons.

C. To exit press HELP until the menu is removed from the screen.

1. Quick Tour - Overview of the remote and menu system and a brief demonstration of a wide screen feature. Use CHANNEL up and down to move through the Quick Tour.

2. Remote Control - Explanation of the remote buttons. A remote will appear on the screen with this section. The button pressed will be highlighted on the screen and explained in the Help menu.

3. Menu System - Explanation of items in the menus. The item highlighted with a black box will be explained in the help box. Press the up and down arrows to move up and down the menu. Press 8 to select a menu item.

4. Advanced Features - Overview of CINEMA, SPLIT SCREEN, POP, and PIP. Press one of these buttons to see its function. A second press of one of the buttons brings up a Controls menu. When this appears, press the number buttons to see how each will adjust the wide screen feature.

5. Glossary - Definitions of buttons, words, or special features. Use CHANNEL up and down to see three screens of words. They are arranged in alphabetical order. Press the number before each word for the definition.

HELP MAIN MENU
1. Quick Tour
2. Remote Control
3. Menu System
4. Advanced Features
5. Glossary
Select a number
press HELP to e

Quick Tour of your TV
This Quick Tour will give you a short demonstration of some of the features and controls of your TV. The tour will start with the remote control.
Move through the tour using CHAN up/down or press HELP to

Remote Control Help
Press a button to see what the button does.
Press HELP to exit.

Menu System
Audio
Allows you to adjust the equalizer, headphone volume, balance, modes, setup, and volume level limit
Move up/dn, se
press HELP to e

Advanced Features
There are four advanced features, CINEMA, SPLIT SCREEN, POP and PIP.
Press an advanced feature button for more informa
press HELP t

Glossary   page 1
Select Using Numbers
1 ANTENNA
2 AUDIO
3 AUTOCOLOR
4 AUTOPROGRAM
5 AUTOTUNING
6 CINEMA
7 COLOR TEMP
CHAN down for more or
press HELP to exit.

Master Remote Buttons

POWER BUTTONS

OFF/ON

Turns off the TV.

Turns on a component after a component button is pressed. For example; VCR, LDISC, AM/FM or CABLE.

Turns off components except audio equipment.

Turns off compatible VCRs.

TV

Turns on the TV.

Shows displays on the TV screen.

Places the remote in the TV mode. The remote is now set to control the TV.

VCR1, VCR2/LDISC, TV, AM/FM, TAPE, CD, CABLE

Sets the remote to control the component of the pressed button. For example, when VCR1 is pressed the remote is set to control the VCR.

WIDE SCREEN BUTTONS

CINEMA

The first press places the TV picture in the wide screen mode.

A second press brings up the CINEMA controls menu.

SPLIT SCREEN

The first press splits the TV screen in half with two different channels on the screen.

A second press brings up the SPLIT SCREEN controls menu.

POP (Picture-outside-picture)

The first press shows several small pictures to the right of the main picture.

A second press brings up the POP controls menu

SWAP

Switches two pictures on the screen. Use this after you have pressed PIP, POP, or SPLIT SCREEN.

PIP (Picture-in-picture)

The first press turns on picture-in-picture.

A second press brings up the PIP controls menu.

FRZ (Freeze)

Freezes the motion on the main picture when watching TV.

Freezes the motion in the small picture when using PIP or SPLIT SCREEN.

ADJUST

In CINEMA, PIP, POP, and SPLIT SCREEN, ADJUST has a different function. Turn on one of these features to see how it works.

Master Remote Buttons

TV BUTTONS

CH GUIDE
(Channel Guide)

Displays 9 snapshots of channels on the screen.

Press a number, 1-9, to select the channel you want to watch.

Press 0 to display the next set of 9 channel numbers on the screen.

Press CLEAR or TV to clear Channel Guide from the screen.

SURR
(Surround Sound)
Toggles between all eight audio modes.

DSPY (Display)

Shows TV status on the screen.

Clears menus from the screen.

SKIP:30
(Commercial Skip)
Allows you to scan other channels during a station's commercial break.

Each press adds more time to the timer.

The TV will switch back to the original channel after the time runs out.

Press CLEAR to clear the timer.

Also scans forward tapes in some VCRs.

VOL ▲ and ▼
(Volume up and down)

VOL ▲ raises the sound level.

VOL ▼ lowers the sound level.

CHAN ▲ and ▼
(Channel up and down)

Moves up and down through channels in the TV's channel scan list.

Moves up and down through the channels in the VCR, Cable Box or Audio equipments memory.

MUTE

Turns the TV sound off and on.

PREV CH
(Previous Channel)

Changes back and forth between two channels.

Select a channel with the number buttons, then select another. Now, press PREV CH to switch between the two channels.

100

Selects channels over 99.

For example, to select channel 125, press 100, 2, and 5.

Number Buttons
(0-9)

Selects any channel number.

Two numbers must be pressed for each channel. For example, press 0 and 6 for channel 6.

RESET

Returns select audio and video adjustments to their original settings.

8   (Continued on next page)

Master Remote Buttons

MENU BUTTONS

HELP

Brings the Help System to the screen.

Exits the Help system when it is on the screen.

MENU/PROG

Brings the menu system to the screen

Sets the VCRs clock and timer programs.

Displays the Laserdisc player program menu on the screen.

CLEAR

Clears menus and displays from the screen.

Erases entries within menus.

Turns off the Channel Guide.

Exits the TV's Help system.

Clears commercial skip.

Clears items from VCR timer programs and clock when remote is set to control the VCR.

Number Buttons (0-9)

When the menus system appear on the screen, these buttons are used to navigate and select items in the menus.

Used to enter time and other numbers in certain menu features.

COMPONENT BUTTONS

INPUT

Brings up a menu that allows you to switch between the Antennas, Video inputs, and High Resolution inputs of the TV's monitor panel.

STOP

Stops tape, CD or laserdisc.

PLAY

Plays tape, CD or laserdisc.

PAUSE

Pauses tape, CD, or laserdisc.

REC (Record)

Starts recording onto a tape.

REW (Rewind)

Rewinds a tape.

Scans backward while a tape, CD, or laserdisc is playing.

FF (Fast Forward)

Fast forwards a tape.

Scans forward while tape, CD or laserdisc is playing.

ANT (Antenna)

In TV mode, ANT toggles between the TV's ANT A and ANT B.

In VCR mode, ANT serves as a TV/VCR button.

9
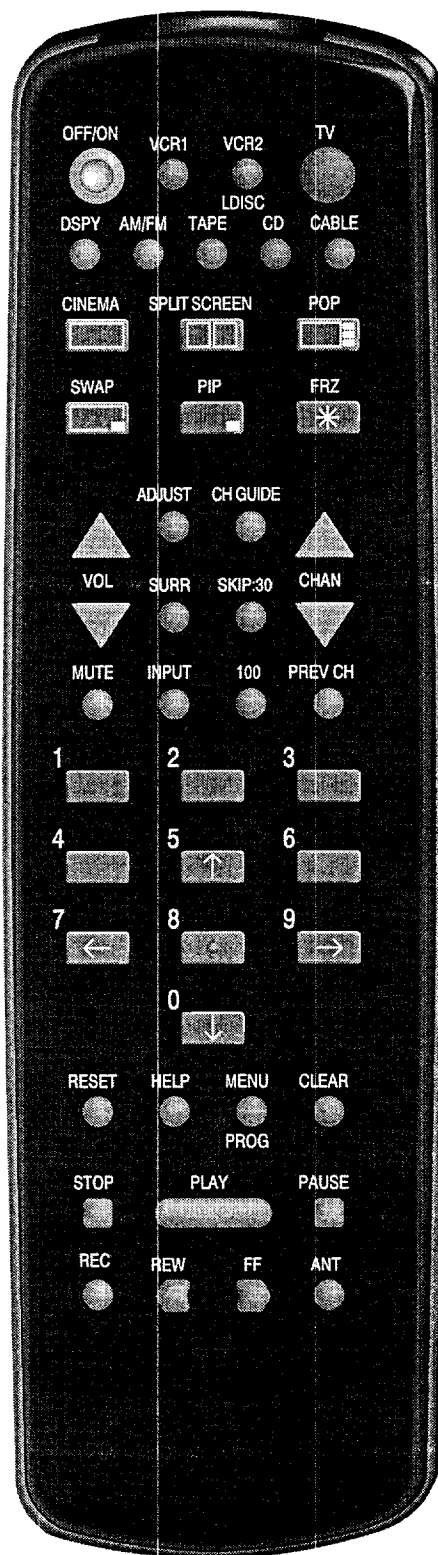
Simplified Remote

Actual remote

The small remote can be used to adjust basic TV features and functions.

It functions differently in the menu system than the larger remote.

A picture of the remote is shown on the screen to help guide you through the menus. Notice the arrows on the buttons of the on screen remote. These arrows show you how to move through the menus. For example, the volume buttons are shown as left and right arrows because they move left and right on menu lines.

If the small remote is not shown on the screen with certain menus, the large remote must be used to change feature settings.

POWER

Turns the TV on or off.

CH ▲/▼
(Channel up and down.)

Moves up and down the menus.

VOL + and –
(Volume up and down)

Moves left and right on the menu lines and selects choices.

Raises and lowers sound.

Selects highlighted items in the menus.

MENU

Brings the main menu to the screen.

Exits menus.

Remote shown on screen with menus

Autotuning for the VCR or Cable Box

The Autotuning feature works with VCR1, VCR2/LDISC, and CABLE on the remote. If Autotuning has been set, pressing the remote's VCR1, VCR2/LDISC, and 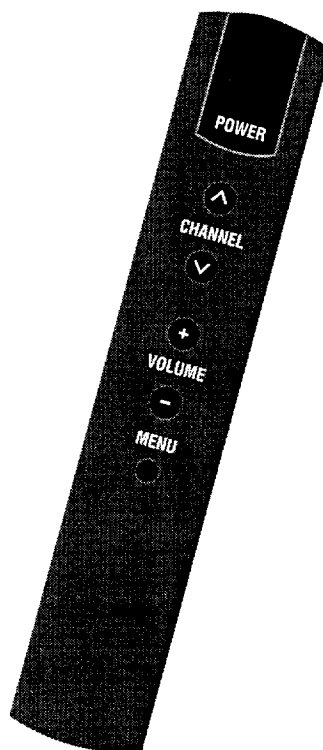CABLE buttons will tune to the TV channel to see the picture from the component. It will also select the input you used to connect the component to the TV.

For example, if your VCR is connected *as shown on pages 45-46*, select VID1 because the VCR is connected to the TV through the Video1 inputs. Use VID2 for the Video2 inputs and use HiRes for the High Resolution inputs.

Set up Autotuning

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the Main menu on the screen.

C. Highlight Installation using the remote's up and down arrows.

D. Press 8 to select Installation.

E. Highlight Autotuning using the remote's up and down arrows.

F. Press 8 to select Autotuning.

G. Use the up and down arrows to highlight VCR1, VCR2/LD or CABLE. Press 8 to select.

H. Select the input you used to connect your component;either ANT A, ANT B, VID1, VID2, or HiRES.

I. If you selected ANT A or ANT B, use the down arrow to highlight the channel number. Press 8 to select.

J. Enter the output channel number of the VCR or cable box. For the VCR, it should be set to the position of the CH3/CH4 switch. For cable boxes, the channels are usually 2, 3 or 4. If you selected VID1, VID2, or HiRES, you will not need to enter a channel number.

K. Press 3 to exit.

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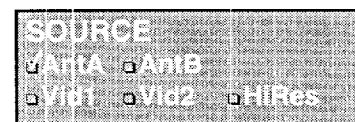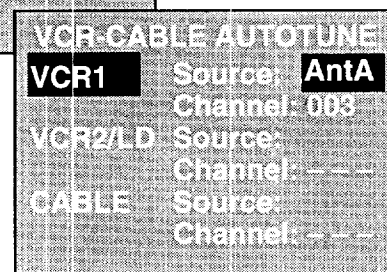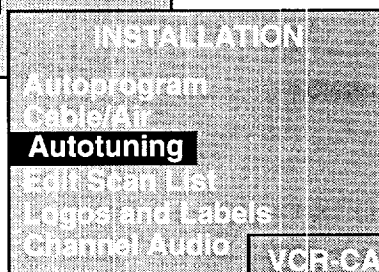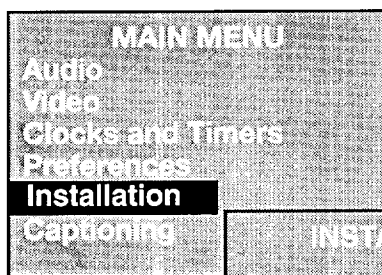
Programming the Remote for a VCR

Refer to pages 44-46 or the VCR's owners manual to hook up your VCRs.

The remote may need to be programmed for your VCR. Use the codes below or on the sheet packed in with your remote.

Test the remote.

A. Press VCR1 or VCR2 to turn the VCR on.

B. Press the VCR buttons shown on the bottom of the next page. If your VCR does not work, program it with a VCR code from the list below.

Program the remote for your VCRs.

A. Point the remote at the VCR. Press and hold VCR1 or VCR2.

B. Enter the code for your brand from the code list below.

C. Release VCR1 or VCR2.

D. Press OFF/ON. Some VCRs work differently, so if nothing happens, try pressing VCR1 and the OFF/ON button.

E. Repeat A–D with another code if the first one does not work.

F. Repeat sequence for a second VCR.

VCR Codes

Aiwa	15
Akai	03,17,22,23
Audio Dynamics	14,16
Broksonic	10
Candle	07,09,13
Cannon	08
Capehart	01
Citizen	07,09,13
Colortyme	14
Craig	07,12
Curtis Mathes	00,07,08,14,15
Daewoo	13
dbx	14,16
Dimensia	00
Dynatech	15
Electrohome	27
Emerson	08,09,10,13,15,20,23,24,27,34,41,42
Fisher	02,12,18,19,43
Funai	15
GE	00,07,08,32,37
Goldstar	09,14
Harman Kardon	14
Hitachi	05,15,35,36
Instant Replay	08
JCL	08
JCPenney	02,05,07,08,14,16,30,35
JVC	02,14,16,30
Kenwood	02,14,16,30
Lloyd	15
Magnavox	08,29
Marantz	02,08,14,16,29,30
Marta	09
MEI	08
Memorex	08,09,12,15
MGA	04,27
Midland	32
Minolta	05,35
Mitsubishi	04,05,27,35,40
Montgomery Ward	06

MTC	07,15
Multitech	07,15,31,32
NEC	02,14,16,30
Panasonic	08
Pentax	05,35
Philco	08,29
Philips	08,29
Pioneer	05,16,33
ProScan	00
Quartz	02
Quasar	08
RCA	00,05,07,08,28,35,37
Realistic	02,06,08,09,12,15,19,43
Samsung	07,13,22,32,42
Sansui	16
Sanyo	02,12
Scott	04,13,41
Sears	02,05,09,12,18,19,35,43
Sharp	06,24,39
Shintom	17,26,31
Sony	17,26,38
Sylvania	08,15,29
Symphonic	02,15
Tandy	02,15
Tashiko	09
Tatung	30
Teac	15,30
Technics	08
Teknika	08,09,15,21
Toshiba	05,13,19
Totevision	07,09
Unitech	07
Vector Research	14,16
Victor	16
Video Concepts	14,16
Videosonic	07
Wards	05,06,07,08,12,13,15,25,31,35
Yamaha	02,14,16,30
Zenith	11,17,26

Using the Remote with VCRs

If the remote operates your VCR, this page and the next will show you how to use it for basic functions.

Turn on the VCR.

A. Press VCR1 or VCR2 to set the remote to control the VCR.

B. Press OFF/ON to turn on the VCR if it did not turn on when you pressed VCR1 or VCR2.

Turn off the VCR.

A. Press VCR1 or VCR2 to set the remote to control the VCR.

B. Press OFF/ON.

Watch a tape in your VCR.

A. Turn on VCR.

B. Insert a tape in the VCR.

C. Press PLAY to start the tape.

D. Press STOP when you are finished.

E. Press REW to rewind the tape.

Record one TV program and watch another.

A. Press VCR1 or VCR2 to set the remote to control the VCR.

B. Tune the VCR to the channel you want to record using CHANNEL up and down or pressing two number buttons.

C. Press REC (Record) to start recording.

D. Press TV/VCR on the VCR. You may be able to use the remote's ANT button instead of the VCR's TV/VCR button.

E. Press TV to set the remote to control the TV.

F. Press CHANNEL up or down to change channels on the TV.

G. To see the channel you are recording, tune the TV to channel 3 or 4 (same as the CH3/4 switch on the VCR). Pressing VCR1 or VCR2 may do the same thing if the Autotune feature has been set *as shown on page 11.*

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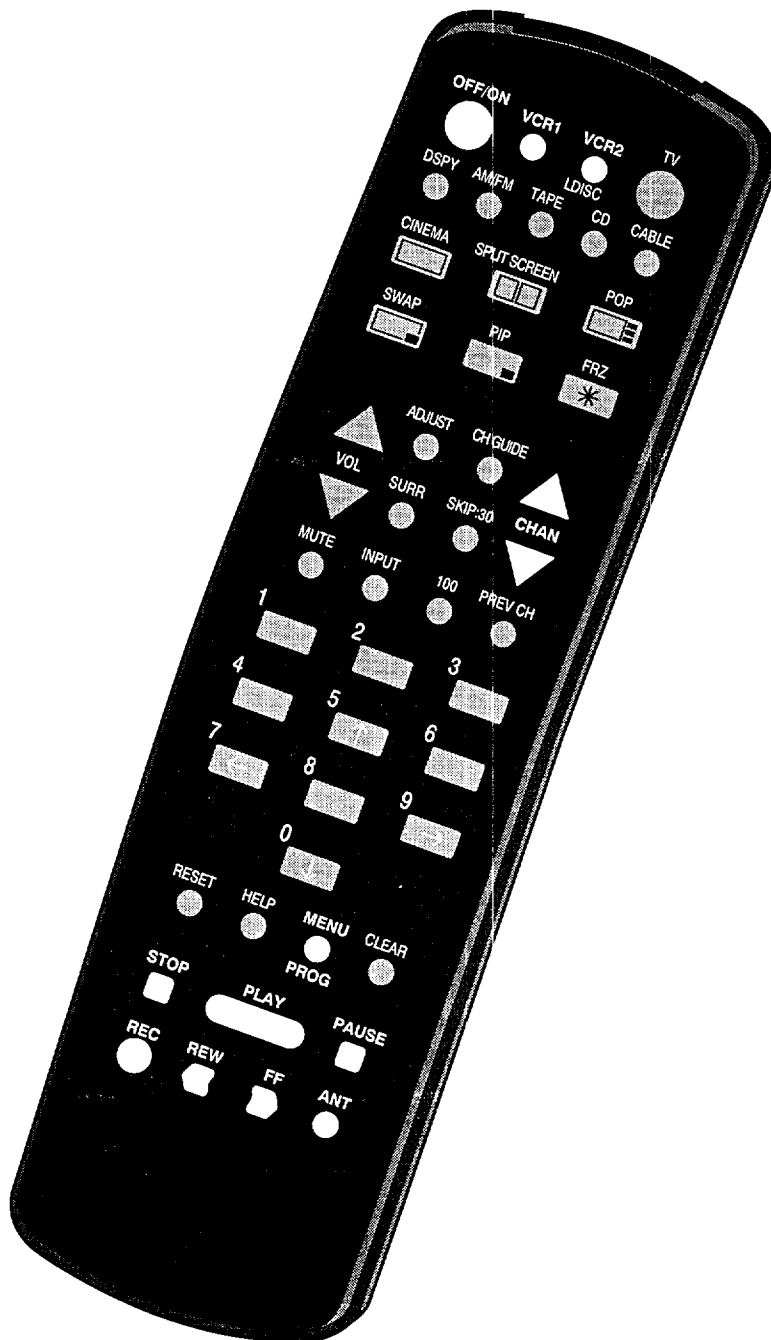
Using the Remote with a Cable Box or Laserdisc Player

Program the remote for your cable box.

Refer to pages 42-44 or contact your cable company to hook up your cable box. If you have a cable box with its own remote, then you may also be able to use the TV's remote with your cable box. Use the codes below or on the sheet packed with your remote.

A. Point the remote at the cable box and press and hold CABLE.

B. Enter the code numbers for your brand from the list below.

C. Release CABLE.

D. Press OFF/ON to turn it on. If nothing happens, try pressing CABLE and then OFF/ON.

E. Repeat A-D with another code if the first one does not work.

Turn on the Cable Box.

A. Tune TV to channel you have selected in the autotune feature. See page 11.

B. Point remote at the cable box and press CABLE.

C. Press OFF/ON to turn it on.

D. Press CHANNEL up or down to change channels on the cable box.

Turn off the Cable Box.

A. Press CABLE.

B. Press OFF/ON to turn it off.

Cable Box Codes

ABC	22,46	Pioneer	18,20,44
Anvision	07,08	Randtek	07,08
Cablestar	07,08	RCA	00,27
Eagle	07,08	Regal	12,13
Eastern International	02	Regency	02,33
General Instrument	04,	Samsung	44
	05,15,23,24,25,30,36,46	Scientific Atlanta	03,22,35
Hamlin	12,23,34,48	Signature	46
Hitachi	37,43,46	Sprucer	27
Jerrold	04,05,15,23,	Starcom	46
	24,25,30,36,45,46,47	Sylvania	11
Macom	37,43	Teknika	06
Magnavox	07,08,19,	Texscan	10,11
	21,26,28,29,32,33,40,41	Tocom	17,21,49,50
NSC	09	Unika	31,32,41
Oak	01,16,38	Viewstar	07,08,19,21,
Oak Sigma	16		26,28,29,32,33,40,41
Panasonic	03,27,39	Warner Amex	44
Philips	07,08,19,21,	Zenith	14,42
	26,28,29,32,33,40,41		

Laserdisc Player Operation

The TV's remote may be able to operate basic functions of some laserdisc players. Use the buttons at the right to see if your laserdisc player is compatible.

A. Point the remote at the Laserdisc player and press LDISC.

B. Press OFF/ON to turn it on.

C. Use the buttons on the remote that relate to laserdisc player functions shown at the right. Not all buttons highlighted may work with your laserdisc player.
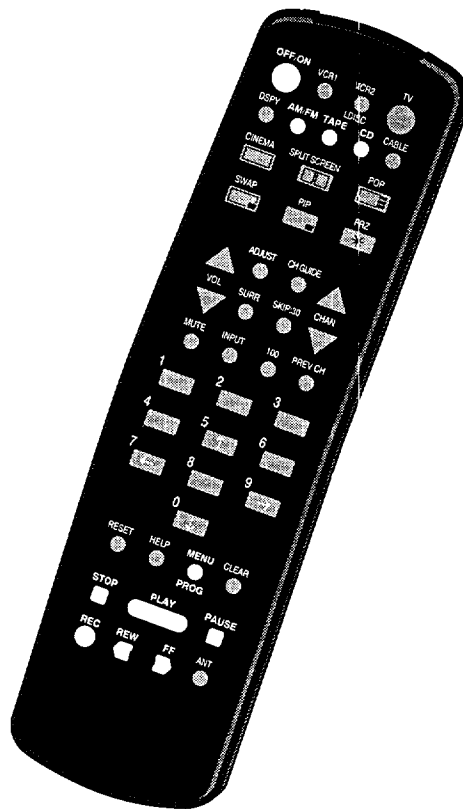
D. Press OFF/ON to turn it off.

14
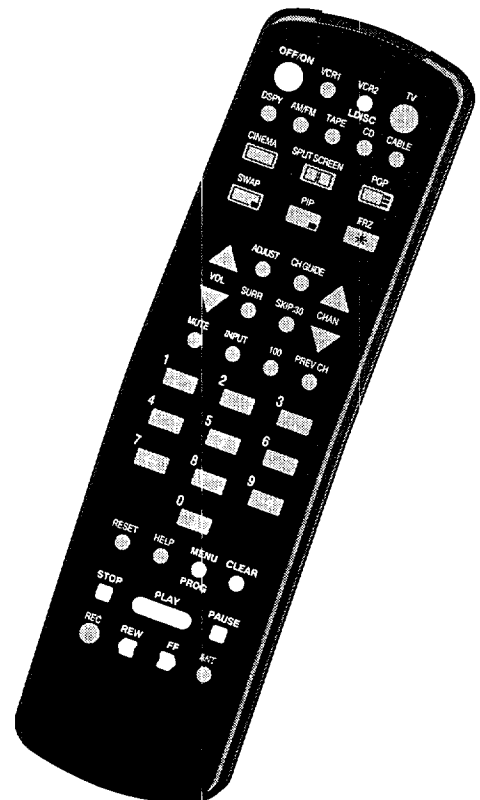
Using the Remote with a Cassette Tape Player, CD Player and AM/FM Tuner

Refer to pages 48-50 or your Audio equipment owner's manual to hook up your equipment. Your remote controls some audio equipment such as a radio (AM/FM tuner), CD player, tape player or amplifier. The remote may need to be programmed for your equipment. *Use the codes below or on the sheet packed with your remote.*

Program the remote for audio equipment.

Because the list of brand names is continually growing, the information sheet packed with your remote control will be the most recent of this list and may contain additional brands and code numbers.

A. Point the remote at the audio equipment and press and hold AM/FM, CD, or TAPE, whichever component you are trying to program.

B. Enter the code from the code list.

C. Release the remote button you are programming

D. Press OFF/ON to turn it on. If nothing happens, try pressing the same remote button again and then OFF/ON.

E. Repeat A–D with another code if the first one does not work.

Basic Operation

A. Point the remote at the audio equipment and press and hold AM/FM, CD, or TAPE, whichever component you are trying to program.

B. Press OFF/ON to turn it on.

C. Use the buttons on the remote that relate to audio functions shown at the right. Not all buttons highlighted may work with your equipment.

D. Turn the audio equipment off using the audio component's power off button.

Audio Equipment	Type of Audio Equipment and Code Numbers					
	AMP	AM/FM	CD	TAPE	PHONO	AUX
ads	01					
Akai	02,08					
Dimensia		03	07	06	05	04
Dynamic Bass		29	25	26,27	28	
Fisher	23					
JVC	16	30,35	32	33,34		31
Kenwood	17					
Kyocera	09					
Marantz	22					
Mitsubishi	15					
Nakamichi	20					
Panasonic	12	38	36	37		
Pioneer	14	42	39	40,41		
RCA	24	03	07,43,44	06	05	04,54
Sansui			45			
Sherwood	11,13					
Sony	21	49	46	48,53	47	
Teac	10					
Technics		52	50	51		
Yamaha	18,19					

15

Watching the CINEMA Mode

Viewing Standard 4x3 Broadcasts

Standard television is broadcast in a 4x3 aspect ratio, which is 4 units wide by 3 units high. Your TV has a wide 16x9 aspect ratio, 16 units wide by 9 units high. Because of this, standard television broadcasts will appear on your TV with black bars on the left and right sides of the screen, as shown at the right.

When watching standard 4x3 broadcasts, there are three ways to fill the TV's 16x9 screen:

1. Use the Cinema Controls *shown below.*
2. Use the Split Screen feature *shown on page 18.*
3. Use the Picture-Outside-Picture feature *shown on page 19.*

Standard 4x3 Format

Using Cinema Controls

You may wish to fill the screen using Cinema A. Cinema B and C are not recommended for use with standard 4x3 broadcasts.

A. Press TV to set the remote to control the TV.

B. Press CINEMA. The first time you press CINEMA, the picture will expand to the Cinema A position or to Cinema option previously selected. Press CINEMA again to bring up the Cinema Controls menu.

C. Press 4 to select Cinema A. This will not distort the original proportions of the picture, but a small portion of the top and bottom of the standard 4x3 broadcast will be cropped. You can use the Pan function below to vertically reposition the image.

**Cinema Mode 16x9 Format**

Adjusting Cinema

Press the ADJUST button to cycle through all 5 viewing options: Cinema Off, Cinema A, Cinema B, Cinema C and Fill. Use the one that works best for the program you are using.

With the Cinema Controls Menu, use the two options below to adjust the picture for the Cinema Mode.

Fill: Fills the screen by expanding the picture in the horizontal direction only. This does not cut off any portion of the picture, but causes both standard 4x3 broadcasts and letterboxed material to appear stretched across the screen. Primarily intended for use with "squeezed" video sources such as some 16x9 camcorders. Other sources of squeezed video could become available in the future.

Pan: Brings up the Pan Controls Menu (shown at the right) which enables you to pan around the screen to watch those areas of the picture that may have been cut off by using Cinema A, B, or C. Reposition the image to suit your viewing preferences. For example, use the pan menu to allow room for subtitles when watching a foreign film.

16
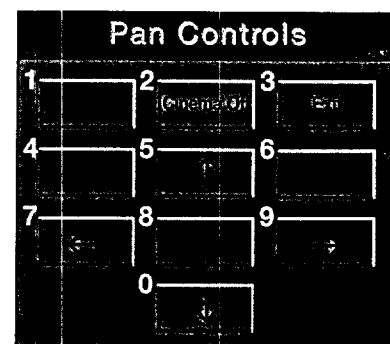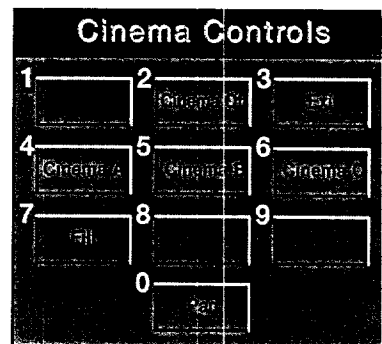
Watching the CINEMA Mode

Letterbox

Widescreen letterbox movies show the original theatre screen dimensions with black bars at the top and bottom of the picture. The size of the bars varies from movie to movie. Your TV is ideal for watching letterbox movies because you can use the Cinema Controls to expand the letterboxed image, fill the screen and reduce or eliminate letterbox bars.

CINEMA A,B and C are three modes of expansion for filling the 16x9 screen. In these modes, the picture is expanded both horizontally and vertically to maintain the original proportions.

Viewing Letterboxed Movies

A. Press TV to set the remote to control the TV.

B. Press CINEMA. The first time you press CINEMA, the picture will expand to the Cinema A mode or whichever mode was previously selected. Press CINEMA a second time to bring up the Cinema Controls menu.

C. Select Cinema A, Cinema B, or Cinema C.

Expansion Modes for filling the 16x9 screen

Cinema A (22% expansion): The full width of the original picture expands horizontally to fill the TV screen, with nothing being cropped from the sides. This reduces or eliminates the letterbox bars, depending on the size of the original bars. If bars are still visible, you may prefer to select Cinema B or Cinema C.

Cinema B (34% expansion): Some portions of the left and right sides of the picture are cropped. This further reduces, and in many cases eliminates, black letterbox bars. If bars are still visible, you may prefer to select Cinema C.

Cinema C (44% expansion): Some portions of the left and right sides of the picture are cropped. In most cases, this will eliminate letterbox bars.

Letterbox Format

17
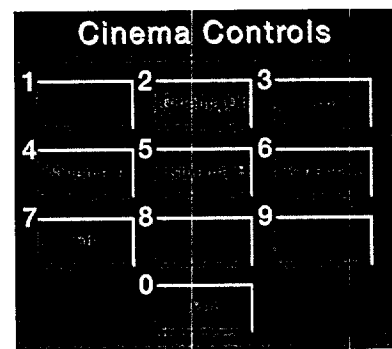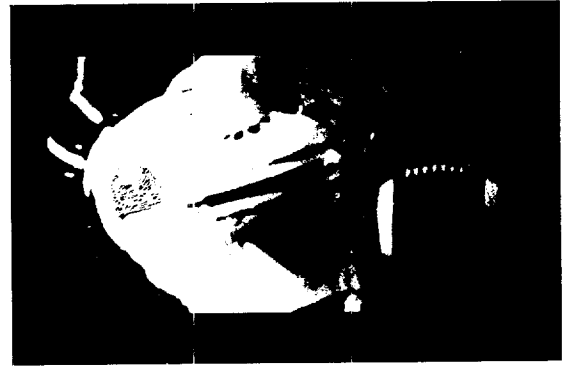
Watching SPLIT Screen

The Split Screen feature allows you to watch two different programs on the screen at one time. The first time you press SPLIT SCREEN, the TV screen will show two pictures on the screen at the same time. They both may be the same picture. Follow the steps below to change channels on the pictures and adjust the pictures using the Split Screen Controls menu.

Split Screen

Turn on Split Screen.

A. Press the remote's SPLIT SCREEN button.

Change channels on the Screens.

Press Channel ▲ and ▼ buttons to change channels on the left picture.

Press ADJUST to change the right picture.

Adjust Split Screen with the Split Screen Controls Menu.

The second time you press SPLIT SCREEN, the Split Screen Controls menu appears on the screen. Use the buttons shown below to adjust the screens.

2/SPLIT OFF:
Turns the SPLIT SCREEN off and removes the screen.

3/EXIT:
Removes the menu from the screen.

4/L CHAN ▲:
Raises the channel number on the left picture.

5/MAIN AUDIO:
Changes the TV sound between the two TV channels.

6/R CHAN ▲:
Raises the channel number on the right picture.

7/L CHAN ▼:
Lowers the channel number on the left picture.

8/HEADPHONE:
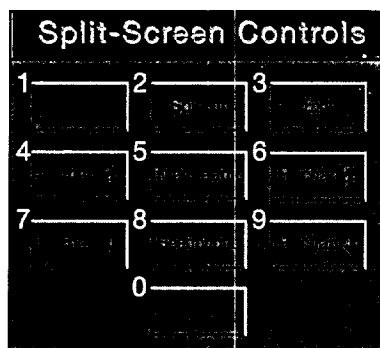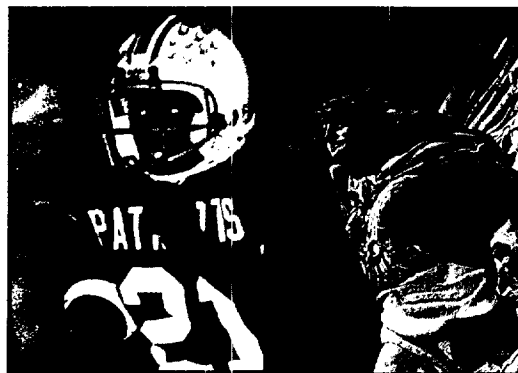Switches the sound for headphones between the two TV channels on the screen.

9/R CHAN:
Lowers the channel number on the right picture.

Turn off Split Screen

A. With the Split Screen on, press SPLIT SCREEN to bring up the Split Screen Controls menu.

B. Press 2 to turn Split Screen off and remove the menu from the screen.

18

Watching POP (Picture-outside-Picture)

You can view more than one program on the screen with POP. The first time you press POP, several snapshots of the channels will appear in the small boxes outside the main picture.

Turn on POP.
A. Press POP to bring up POPs at the right of the main picture.

Change Channels while Using POP.
Press CHANNEL ▲ and ▼ to change channels on the main picture. Press ADJUST to highlight the next small picture and place it in the main picture.

Adjust POPS with the POP Controls Menu.
The second time you press POP, the POP Controls menu appears on the screen. Use the buttons shown below in the POP Controls menu to adjust the POPs. Use the menu shown below to change channels on the POPs.

1/SWAP:
Switches the selected POP with the main picture. This works the same as the remote's SWAP button.

2/POP Off:
Turns POP off and removes the menu from the screen.

3/EXIT:
Removes the POP Controls menu from the screen.

4/MORE POPs:
Increases the amount of POPs.

5/CHOOSE ▲:
Highlights the POP above the one currently highlighted in blue.

6/CHAN ▲:
Raises the channel number of the highlighted small picture.

7/LESS POPs:
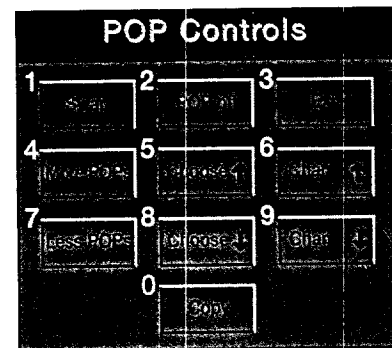Decreases the amount of POPs.

8/CHOOSE ▼:
Highlights the POP below the one currently highlighted in blue.

9/CHAN ▼:
Lowers the channel number of the highlighted POP.

0/COPY:
Moves the highlighted POP in blue to the main picture.

Turn off POP
A. With POPs on the screen, press POP to bring up POP Controls menu.
B. Press 2 to turn POP off and remove the on-screen menu.

Picture-outside-Picture

POP Controls

Watching PIP (Picture-in-Picture)

Picture-in-Picture allows you to display a small picture within the main picture of the TV screen. PIP can be used when watching the Cinema mode or standard 4x3 broadcasts. Because you have two tuners, you do not need to connect another video source to watch PIP (picture -in-picture). The first time you press PIP, a small picture appears on the screen along with the main picture.

Turn on Picture-in-Picture.
A. Press TV to set the remote to control the TV.

B. Press PIP to turn on picture-in-picture.

Change channels in PIP
Press CHANNEL ▲ and ▼ or use the number buttons to change channels on the main picture..

Press ADJUST to change channels on the small picture.

Adjust PIP
The second time you press PIP, the PIP Controls menu appears on the screen. Use the PIP Controls menu items shown below to adjust PIP.

1/Swap:
Switches the small and the main picture. Works the same as SWAP on the remote.

2/PIP Off:
Removes the small picture and the menu from the screen.

3/EXIT:
Removes the menu from the screen.

4/SIZE:
Adjusts the size of the small picture.

5/CORNER:
Moves the small picture from corner to corner.

6/CHAN up:
Raises the channel of the small picture..

7/FREEZE:
Stops action in the small picture. Works the same as the FRZ button.

8/HEADPHONE:
Switches the headphone sound between the main and small picture.

9/CHAN down:
Lowers the channel number for the small picture.

0/MOVE:
Brings up the Move Controls menu that allows you to adjust the size of the small picture and move it around the screen. *Shown at the right.*
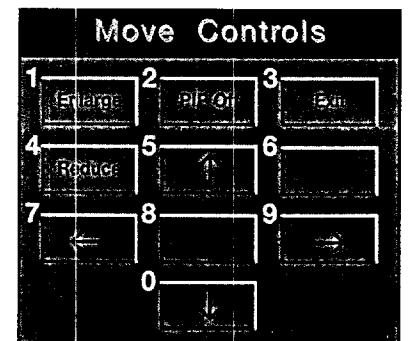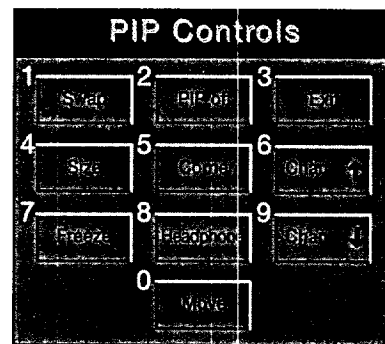
Turn off PIP
A. With PIP on the screen, press PIP to bring up PIP Controls menu.

B. Press 2 to turn PIP off and remove the on-screen menu.

Standard 4x3 Format with Picture-in-Picture


Cinema Mode with Picture-in-Picture

Color, Tint, Contrast, Brightness, and Sharpness

Follow the steps below to change the picture on the screen to your personal setting. The chart at the bottom of the page explains your options.

Adjust the Picture.

A. Press MENU to bring up the main menu.

B. Highlight Video using the up and down arrows on the remote. These arrows are also shown on the screen. Press 8 to select the Video menu.

C. Highlight each of the video settings.

D. Select with the 8 button.

E. Use the chart below to adjust each video setting to enhance your picture.
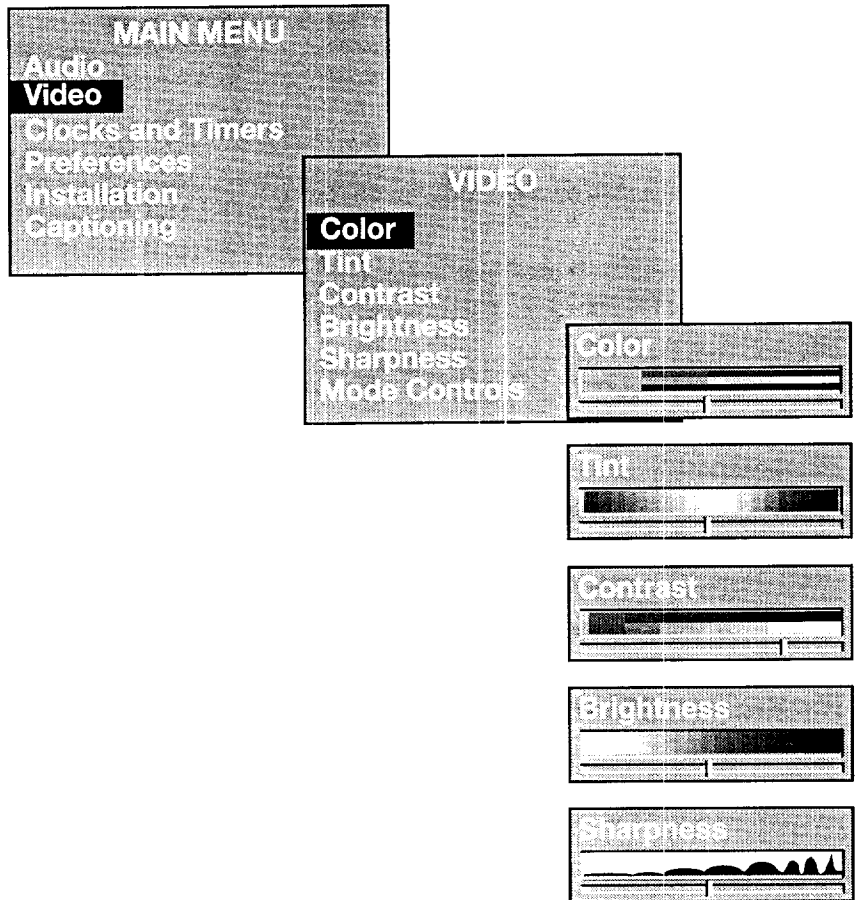
	Press left arrow to:	Press right arrow to:
Color	Decrease Color	Increase Color
Tint	Decrease Tint	Increase Tint
Contrast	Decrease Contrast	Increase Contrast
Brightness	Decrease Brightness	Increase Brightness
Sharpness	Decrease Sharpness for smoother pictures with weak signals	Increase Sharpness for clearer images with strong signals

Mode Controls; Autocolor, Color Temperature, Noise Reduction, and Theatre Mode

Mode Controls

A. Press MENU to bring up the main menu.

B. Highlight Video using the up and down arrows on the remote. These arrows are also shown on the screen.

C. Press 8 to select the Video menu.

D. Highlight Mode Controls. Select with the 8 button.

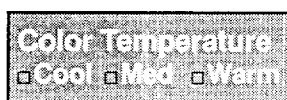E. Select each of the mode controls and set them for your use.
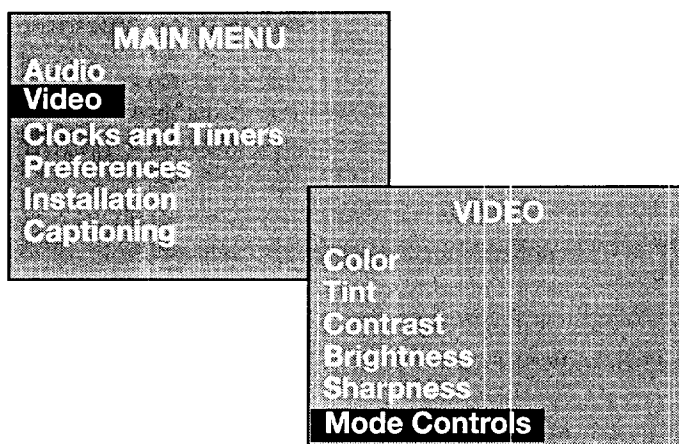
Autocolor

Turn autocolor on keep fleshtones consistent each time you change channels.

Color Temperature

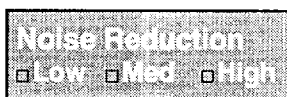Color Temperature is the difference between the blue and red tones on your screen's picture.

Choose between fleshtones that are Cool, Medium and Warm in color.

Noise Reduction

Reduces the amount of video noise or snow on your screen.

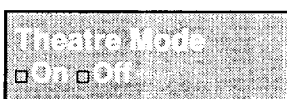Set this adjustment to Low, Medium or High.

Theatre Mode

Sets a low contrast level and Warm Color Temperature setting for the TV picture.

Turn the theatre mode on or off.

This feature works great when watching a movie in the dark as if you are in a movie theatre.

22

Adjusting the Equalizer

Adjusting the equalizer is a matter of personal preference. The adjustments allow certain characteristics of the audio to be changed without affecting others.

Follow the directional buttons on the screen to adjust the equalizer.

A. Press MENU to bring up the Main Menu.

B. Highlight Audio using the up and down arrows on the remote.

C. Press 8 to select the Audio Menu.

D. Highlight Equalizer. Press 8 to select the equalizer.

E. Press the left and right arrows to highlight the band you want to adjust.

F. Use the up and down arrows to raise or lower the amplitude.

G. Press 3 to exit.
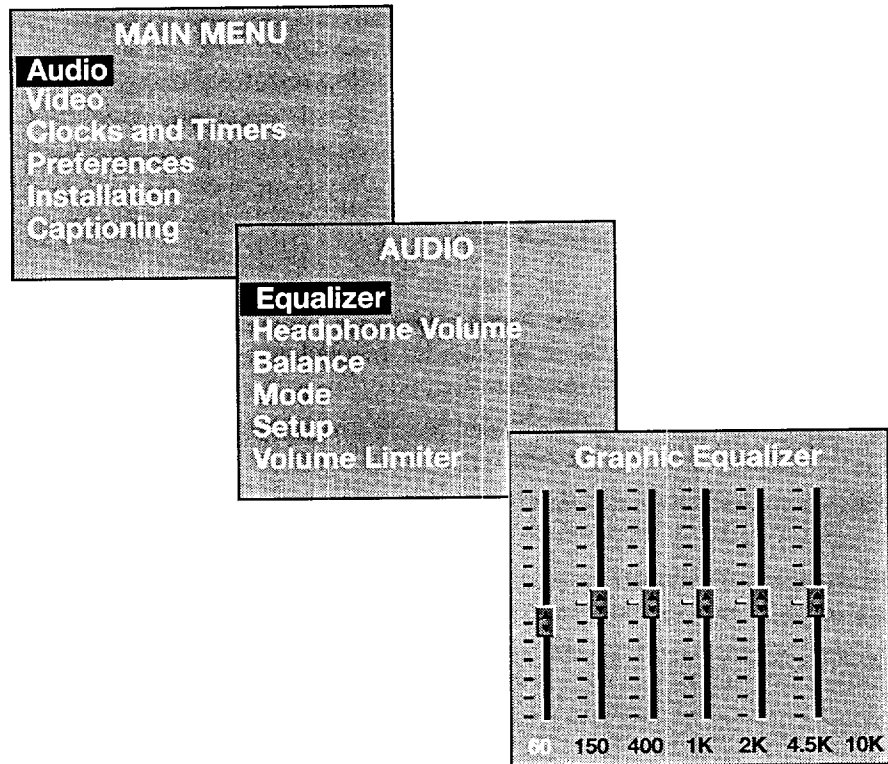
60 Hz
Gives low bass sounds more or less impact. This area is where many systems and/or programs are weak. Increasing this control overcomes such deficiencies.

150 Hz
Affects the loudness of bass. Increasing the control gives the bass more punch, lowering it reduces booming.

400 Hz
Affects the fullness of some instruments and lower vocals. Increasing this control adds fullness to these sounds, reducing it makes them sound thinner.

1 KHz
Strongly affects the presence of vocals and most instruments. Increasing this control can help project these sounds or make a vocalist easier to understand.

2 KHz
Strongly affects the harmonics of voices and some instruments. Increasing this control will project most instruments and vocals. Reducing it allows more subtle sounds in other ranges to be heard.

4.5 KHz
Affects harmonics of voices and instruments, particularly brass and strings. Increasing this control makes these instruments and vocals sharper. Reducing it controls lispy vocals or shrill instruments.

10 KHz
Affects the highest, most delicate harmonics of instruments such as strings and the overall sound of others such as cymbals and drum snares. Increasing this control brings out crispness in cymbals and sweetness in strings and gives the music atmosphere. Reducing it controls extra noise and hiss.

23

Selecting a Mode from Speaker Arrangements

Before you select one of the eight audio modes or adjust an item in the audio menu, select your room's speaker arrangement from one of the pictures shown on these two pages. The mode you select depends on which speaker arrangement you use.

No additional speakers

If you do not have any external speakers connected to the speaker connectors on the back of your TV, you will want to choose one of the audio modes listed below.

- Select Normal Stereo so your TV will automatically produce stereo sound whenever it is broadcast.

- Select Expanded Stereo to add greater depth and dimension to stereo broadcasts.

- Select Phantom Prologic so your TV will automatically produce clearer dialog and better stereo imaging when stereo is broadcast.

```
                    ┌─────┐
                    │ TV  │
                    └─────┘
```
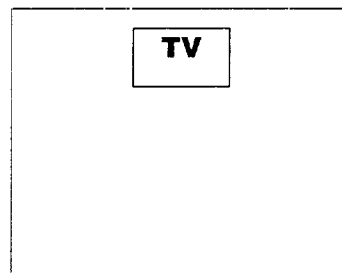
External right and left front speakers

If you have external right and left front speakers connected to the EXTERNAL connector on the back of your TV, you will want to choose one of the audio modes listed below.

- Select Normal Stereo so your TV will automatically produce stereo sound whenever it is broadcast.

- Select Expanded Stereo to add greater depth and dimension to stereo broadcasts. Works best if speakers are spaced close to the TV.

- Select Dolby 3 Prologic to take a Dolby* surround encoded source and add a center channel. Dolby 3 stereo works best with Dolby surround encoded material, but will produce clearer dialog and better stereo imaging even on normal stereo material. The center channel makes the actor's voice appear to come from the TV screen regardless of where you are sitting in the room. Dolby 3 stereo provides a left, right, and center channel sound.

Connect External speakers to connectors labeled EXTERNAL on the back of the TV.
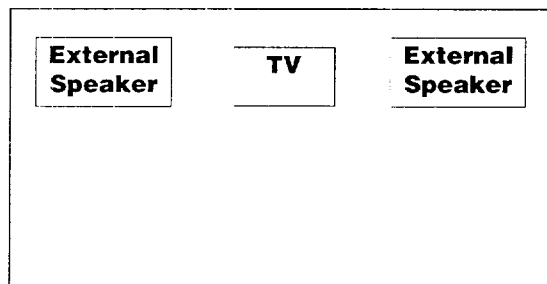
```
┌─────────┐   ┌─────┐   ┌─────────┐
│ External│   │ TV  │   │ External│
│ Speaker │   │     │   │ Speaker │
└─────────┘   └─────┘   └─────────┘
```

Selecting a Mode from Speaker Arrangements

External surround speaker(s)

If you have external speaker(s) connected to the SURROUND speaker terminal(s), you will want to choose one of the audio modes listed below.

- Select Normal Prologic to produce a more realistic theater-like sound by using center, right, left, and surround channels. The result is greater perceived channel separation and the sensation of wider and realistic three-dimensional sound. Prologic works best with Dolby surround encoded material, but will produce clearer dialog and better stereo imaging even on normal stereo material.

- Select Phantom Prologic so your TV will automatically produce clearer dialog and better stereo imaging when stereo is broadcast.

- Select Matrix Surround to simulate surround sound from a mono broadcast.

- Select Hall Surround to hear surround sound from a stereo broadcast and create the effect of being in a large room.

- Select Stadium Surround to hear surround sound from a stereo broadcast and create the effect of being in a stadium.
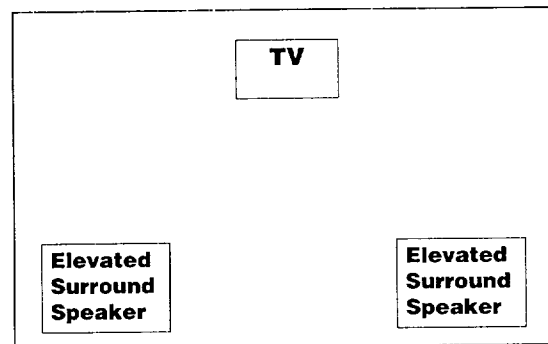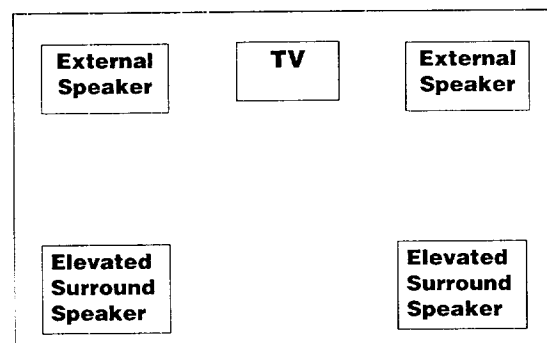

Connect Surround Speakers to the SURROUND speaker terminals on the back of the TV.

External right, left, and surround speaker(s)

If you have right and left speakers attached to the EXTERNAL speaker terminal on the back of your TV, and Surround speaker(s) connected to the SURROUND speaker terminals, you will want to choose one of the audio modes listed below.

- Select Normal Prologic to produce a more realistic theater-like sound by using center, right, left, and surround channels. The result is greater perceived channel separation and the sensation of wider and realistic three-dimensional sound. Prologic works best with Dolby surround encoded material, but will produce clearer dialog and better stereo imaging even on normal stereo material.

- Select Matrix Surround to simulate surround sound from a mono broadcast.

- Select Hall Surround to hear surround sound from a stereo broadcast and create the effect of being in a large room.

- Select Stadium Surround to hear surround sound from a stereo broadcast and create the effect of being in a stadium.

Connect External Speakers to the EXTERNAL speaker terminals on the back of the TV.

Connect Surround Speakers to the SURROUND speaker terminals on the back of the TV.

25

Setting Up Normal Stereo or Expanded Stereo

Select Normal or Expanded Stereo Mode.

Your TV is fully capable of reproducing stereo sound from TV stations transmitting stereo in your area.

Your TV also includes expanded stereo which adds greater depth and dimension to stereo broadcasts. Stereo expansion enhances the ambience of music and program material. Talk shows with background crowd noise also benefit from expansion by engulfing the listener in a wider sound field than would be experienced without expanded stereo. The effect will vary with program material.
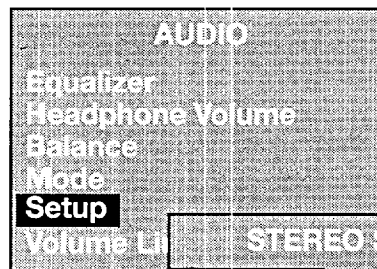
1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Mode using the up and down buttons on the remote. Press 8 to select Mode.
4. Normal Stereo or Expanded Stereo.
5. Use the information below to set Normal Stereo and Expanded Stereo to your personal preference.
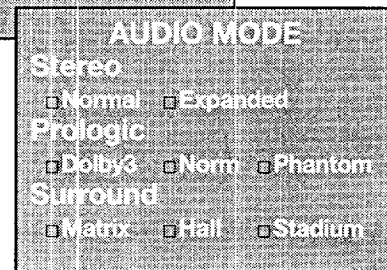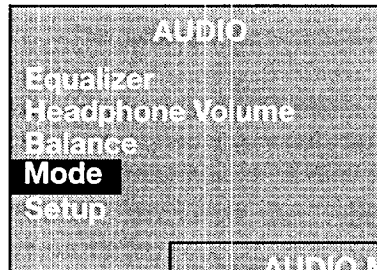
Set up Normal Stereo.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Setup using the up and down buttons on the remote. Press 8 to select Setup.
4. Use the menu buttons shown on the screen to select and adjust the stereo setup.
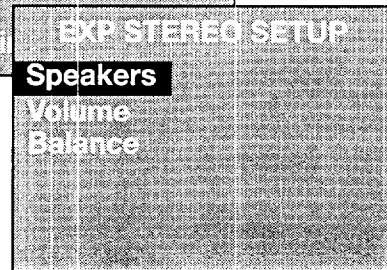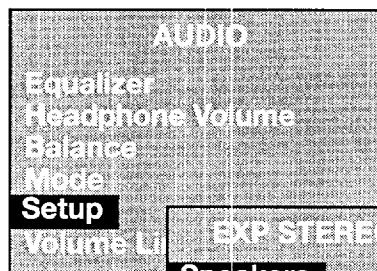
Speakers: Select Internal to listen to the TV's built-in speakers. Select External if you have connected external speakers to the EXTERNAL speaker terminals on the back of the TV.

Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume.

Balance: Adjust the left/right balance until the sound seems to originate from a point halfway between the speakers.

Mode: Select Stereo to automatically reproduce stereo or mono, whichever the TV station is broadcasting. Select Mono if the Stereo signal is not strong enough or if the signal drifts or becomes noisy.

Set up Expanded Stereo.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Setup using the up and down buttons on the remote. Press 8 to select Setup.
4. Use the menu buttons shown on the screen to select and adjust the stereo setup.

Speakers: Select Internal to listen to the TV's built-in speakers. Select External if you have connected external speakers to the EXTERNAL speaker terminals on the back of the TV.

Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume.

Balance: Adjust the left/right balance until the sound seems to originate from a point halfway between the speakers.

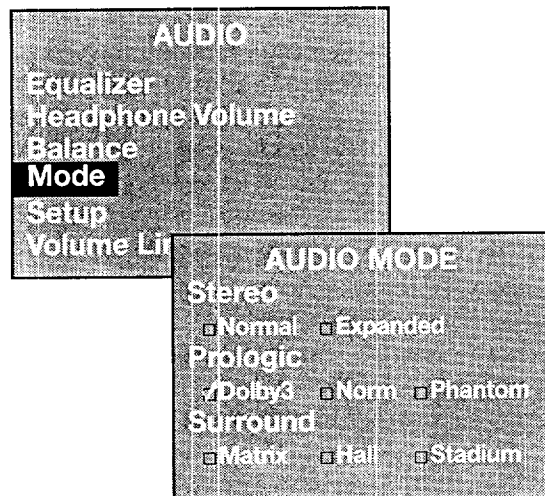# Setting Up Dolby3 Prologic

Select Dolby3 Prologic Mode.

Dolby 3 stereo mode actively decodes Dolby* surround encoded audio to provide left, right, and center channel sound. The center channel makes the actor's voice appear to come from the TV screen regardless of where you are sitting in the room. To hear Dolby3 stereo, you must attach right and left front speakers to the EXTERNAL speaker terminals on the back of the TV.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Mode using the up and down buttons on the remote. Press 8 to select Mode.
4. Use the arrow keys to select Dolby3 Prologic.
5. Use the information below to set Dolby3 Prologic to your personal preference.

Set up Dolby3 Prologic.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Setup using the up and down buttons on the remote. Press 8 to select Setup.
4. Use the menu buttons shown on the screen to select and adjust the Dolby3 Prologic setup.

Internal Speakers: Turn on to hear sound through the TV's built-in speakers.

External Speakers: Turn on to hear the sound from the speakers connected to the EXTERNAL speaker terminals on the back of the TV.

Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume.

Balance: Adjust the left/right balance until the sound seems to originate from a point halfway between the speakers.

Center Volume: Adjust to your personal preference to hear the sound from the center speaker.

Noise Sequencer: Turn on to individually adjust each speaker channel (left, right, and center) one at a time. This allows you to check and adjust the volume level and balance to each channel as well as check to see if all the speakers are working correctly.
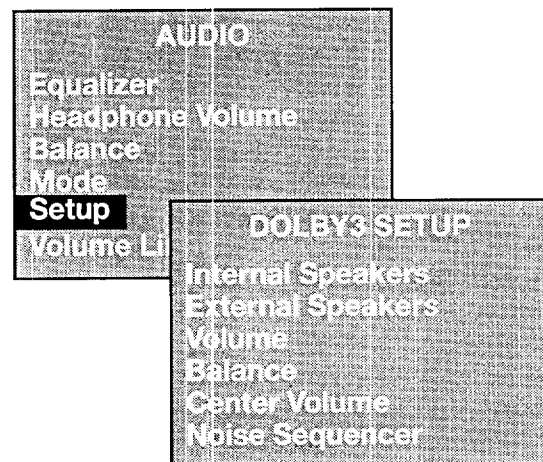
27

Setting Up Normal Prologic
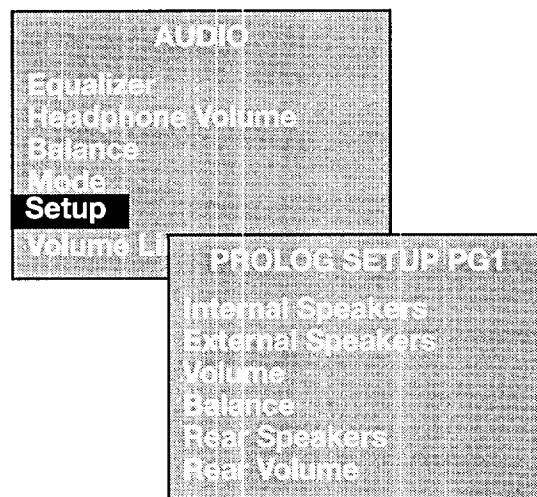
Select Normal Prologic Mode.

Select Normal Prologic to produce a more realistic theatre-like sound by using center, right, left, and surround channels. The result is greater perceived channel separation and the sensation of wider and realistic three-dimensional sound. Prologic works best with Dolby surround encoded material, but will produce clearer dialog and better stereo imaging even on normal stereo material.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Mode using the up and down buttons on the remote. Press 8 to select Mode.
4. Use the arrow keys to select Normal Prologic Surround Sound.
5. Use the information below to set Normal Prologic to your personal preference.
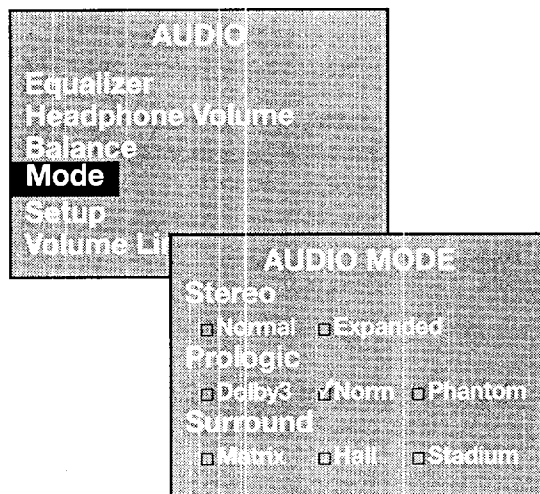
Set up Normal Prologic.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Setup using the up and down buttons on the remote. Press 8 to select Setup.
4. Use the menu buttons shown on the screen to select and adjust the Normal Prologic setup.

Internal Speakers: Turn on to hear sound through the TV's built-in speakers.

External Speakers: Turn on to hear the sound from the speakers connected to the EXTERNAL speaker terminals on the back of the TV.

Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume.

Balance: Adjust the left/right balance until the sound seems to originate from a point halfway between the speakers.

Rear Speakers: Set rear speakers to On to hear sound from the rear surround speaker(s).

Rear Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume of the rear speakers.

Input Balance: Used to balance the left and right audio signals coming into the set for the best surround sound performance. Most of the time you will want to leave this at mid scale. If the sound coming from your surround sound speaker(s) has a lot of voices, you may want to adjust this to minimize the voices. Stop at the point where voices are minimal in the surround speaker(s).

Center Volume: Adjust to your personal preference to hear the sound from the center speaker.

Noise Sequencer: Turn on to individually adjust each speaker channel (left, right, and center) one at a time. This allows you to check and adjust the volume level and balance to each channel as well as check to see if all the speakers are working correctly.

28
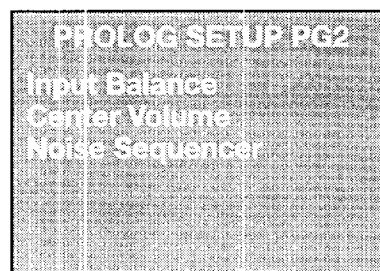
Setting Up Phantom Prologic

Select Phantom Prologic Mode.

Select Phantom Prologic so your TV will automatically produce cleaner dialog and better stereo imaging when stereo is beoadcast.
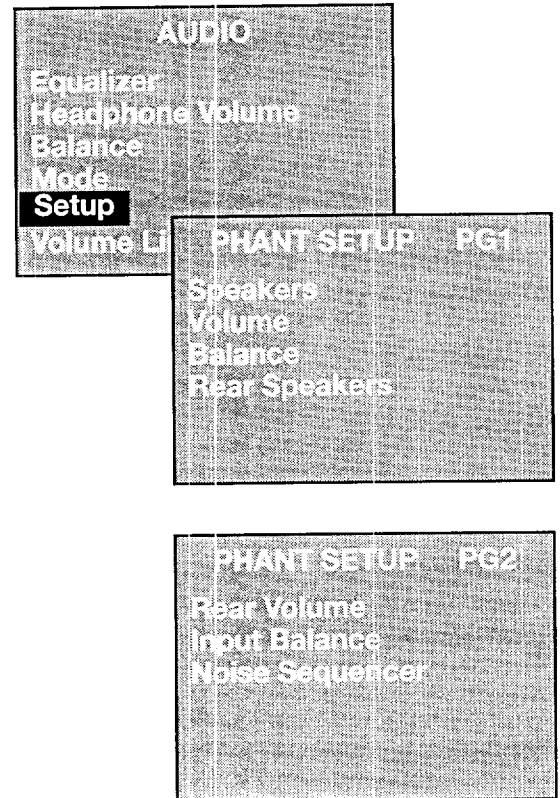
1. Press MENU to bring up main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Mode using the up and down buttons on the remote. Press 8 to select Mode.
4. Use the arrow keys to select Phantom Prologic Surround Sound.
5. Use the information below to set Phantom Prologic to your personal preference.
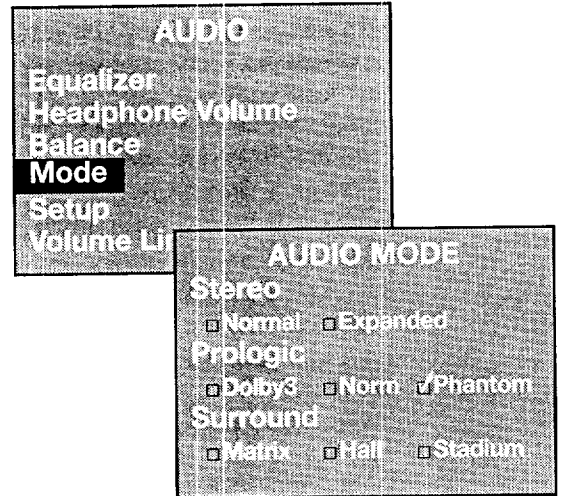
Set up Phantom Prologic.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight Setup using the up and down buttons on the remote. Press 8 to select Setup.
4. Use the menu buttons shown on the screen to select and adjust the Phantom Prologic setup.

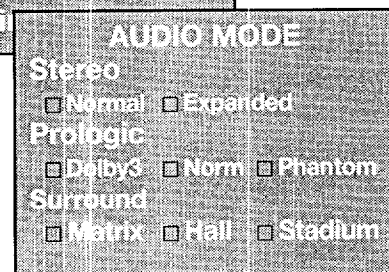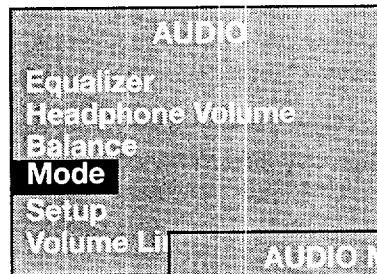|	
Speakers:	Select Internal to listen to the TV's built-in speakers. Select External if you have connected external speakers to the EXTERNAL speaker terminals on the back of the TV.
Volume:	Set to your personal preference. Use right and left arrows to increase or decrease the volume.
Balance:	Adjust the left/right balance until the sound seems to originate from a point halfway between the speakers.
Rear Speakers:	Set rear speakers to On to hear sound from the rear surround speaker(s).
Rear Volume:	Set to your personal preference. Use right and left arrows to increase or decrease the volume of the rear speakers.
Input Balance:	Used to balance the left and right audio signals coming into the set for the best surround sound performance. Most of the time you will want to leave this at mid scale. If the sound coming from your surround sound speaker(s) has a lot of voices, you may want to adjust this display to minimize the voices. Stop at the point where voices are minimal in the surround speaker(s).
Noise Sequencer:	Turn on to individually adjust each speaker channel (left, right, and center) one at a time. This allows you to check and adjust the volume level and balance to each channel as well as check to see if all the speakers are working correctly.

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Setting Up Matrix, Hall, or Stadium Surround Sound
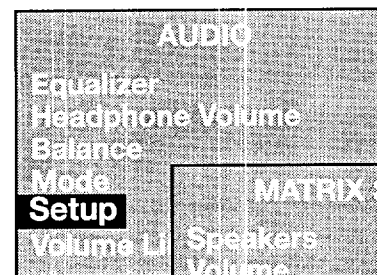
Select Matrix, Hall, or Stadium Mode.

Matrix, Hall and Stadium modes provide surround sound generation and require rear speakers. There are three surround modes to choose from. Matrix surround simulates surround sound from a mono broadcast. Hall surround provides surround sound from a stereo signal, and stadium surround delays the rear sound longer than hall surround which gives you the feeling of being in a larger area. Select the mode you wish to use by following the steps below.

1. Press MENU to bring up the main menu.

2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.

3. Highlight Mode using the up and down buttons on the remote. Press 8 to select Mode.

4. Use the arrow keys to select either Matrix, Hall or Stadium Surround Sound.

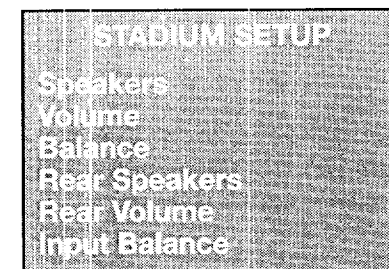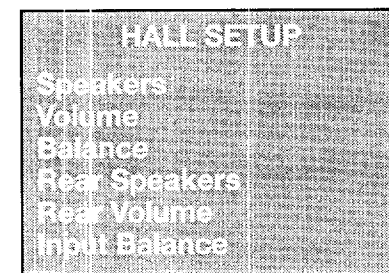5. Use the information below to set the audio mode you have chosen.

Set up Matrix, Hall, or Stadium Surround.

1. Press MENU to bring up the main menu.

2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.

3. Highlight Setup using the up and down buttons on the remote. Press 8 to select Setup.

4. Use the menu buttons shown on the screen to select and adjust the the audio mode you have chosen. The Input Balance can be adjusted in Hall and Stadium setup, however this feature is not available with Matrix.

Speakers: Select Internal to listen to the TV's built-in speakers. Select External if you have connected external speakers to the EXTERNAL speaker terminals on the back of the TV.

Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume.

Balance: Adjust the left/right balance until the sound seems to originate from a point halfway between the speakers.

Rear Speakers: Set rear speakers to On to hear sound from the rear surround speaker(s).

Rear Volume: Set to your personal preference. Use right and left arrows to increase or decrease the volume of the rear speakers.

Input Balance: Used to balance the left and right audio signals coming into the set for the best surround sound performance. Most of the time you will want to leave this at mid scale. If the sound coming from your surround sound speaker(s) has a lot of voices, you may want to adjust this display to minimize the voices. Stop at the point where voices are minimal in the surround speaker(s).

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Adjusting Sound Levels and Speaker Balance

To adjust one of the 3 items shown below, follow these four steps then adjust to your preference.

1. Press MENU to bring up the main menu.
2. Highlight Audio using the up and down buttons on the remote. Press 8 to select audio.
3. Highlight one of the items shown below using the up and down buttons on the remote. Press 8 to select the item.
4. Use the menu buttons shown on the screen to select and adjust the the audio mode you have chosen.
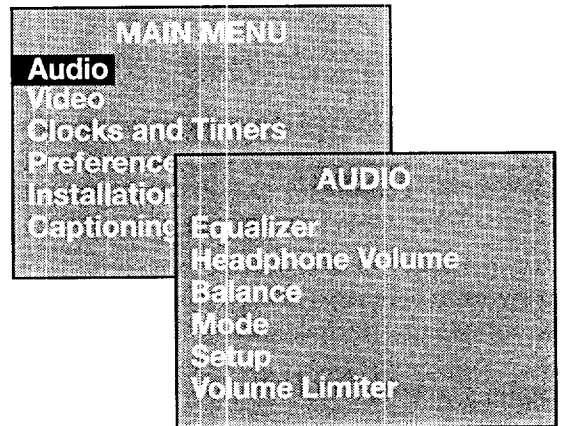
Headphone Volume

You can attach a set of headphones to the TV. Headphone volume adjusts the volume level for the headphones.

Press the right arrow to increase the sound level. Press the left arrow to lower the sound level.
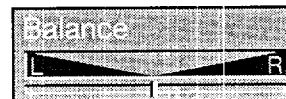
If your headphones do not fit in the headphone jack, an adapter can be used. The adapters can be found at your local electronics store.

Balance

Adjusts the sound between the left and right speakers.

Press the right arrow to hear more sound from the right speaker. Press the left arrow to hear more sound from the left speaker

Volume Limiter

Sets the limit on maximum volume level. The TV's volume level will not rise any higher than the level set. This is useful if you have children and you do not want them to raise the volume higher than what you select.

31
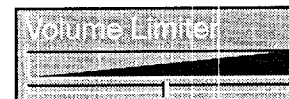
Adjusting Channel Audio

In the Channel Audio menu, you can select the preferred audio program for each channel.

Your TV is capable of receiving stereo as well as programs broadcast in a second language (SAP). In Channel Audio, you can set specific channels for audio in normal stereo or SAP.

If you know a channel is louder or softer than some other channels, you can setup the audio to compensate for the loudness or quietness.

Follow the steps below to set the channel audio to your personal preference.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Installation using the up and down arrows on the remote. These arrows are also shown on the screen.

D. Press 8 to select the Installation menu.

E. Highlight Channel Audio. Press 8 to select Channel Audio.

F. Enter the channel number using the left and right arrows or the CHANNEL up/down buttons. The antenna input you are using will be appear next to the channel.

G. Use the down arrow to highlight Preferred Audio. Use the left or right arrow to check the Normal or SAP box. Select normal for normal stereo or SAP for a second language.

H. Use the down arrow to highlight, **This channel is usually**. Use the left or right arrow to select Loud, Quiet or OK.

I. Press 3 to exit.

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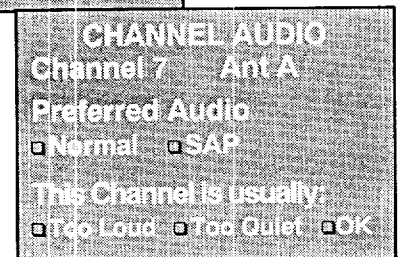
Autoprogramming and Editing the Channel Scan list

Place channels in the channel scan list (Autoprogram).

Only channels 2–13 appear in the TV's channel scan list when you first turn it on. The channels available in your area must be programmed into the Channel Scan list. Using CHANNEL up or down allows you to scan through these channels.

You may want to add or delete a few channels if some stations have weak signals or were off the air when the TV was programmed.

A. Hook up an antenna or cable before you begin these steps or you will not be able to add channels into the channel scan list.

B. Press TV to set the remote to control the TV.

C. Press MENU to bring up the main menu.

D. Highlight Installation using the up and down arrows on the remote. These arrows are also shown on the screen.

E. Press 8 to select the Installation menu.

F. Highlight Autoprogram.

G. Press 8 to select Autoprogram and start the TV adding channels to memory.

H. Wait until the TV has finished adding channels by checking the Antennas. The TV will then tune to the lowest channel found.
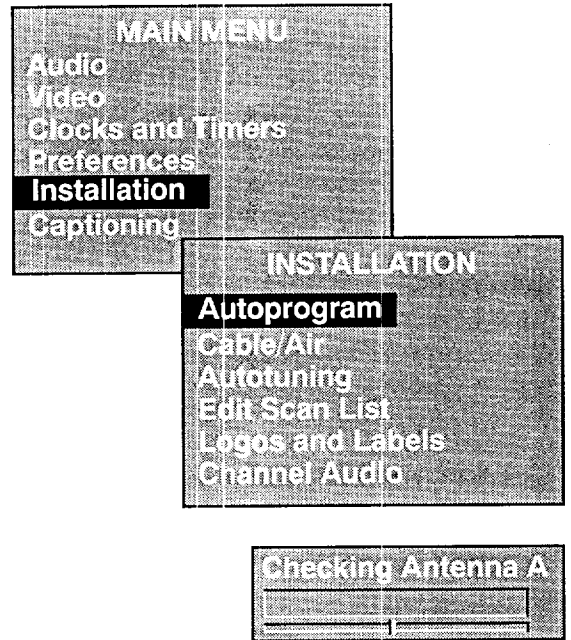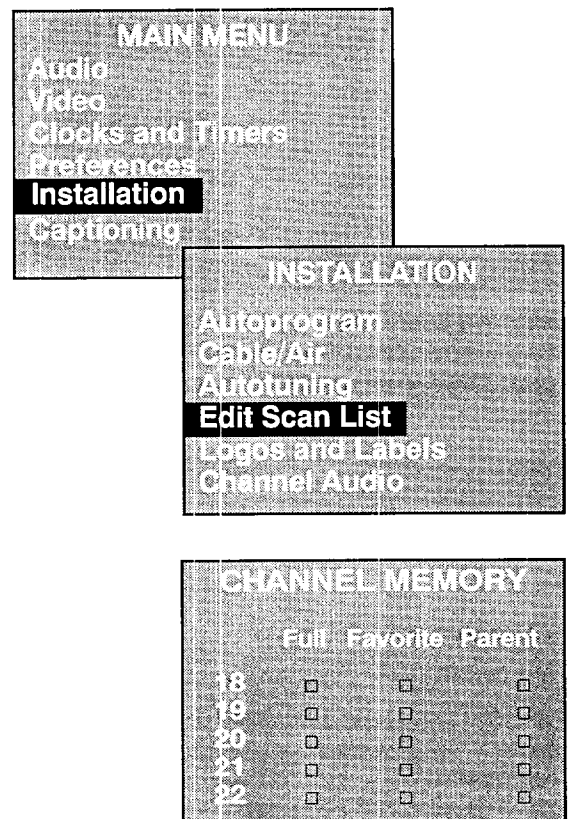

Editing channels in the Scan lists.

Follow the steps below to add or delete channels if station signals were weak or off the air when you autoprogrammed the TV. You can place channels in normal, favorite or parental control scan lists when you edit channels.

You can select normal or favorite channels to use in the scan lists shown on the next page. Full is for channels that will appear in the normal scan list.

When you place channels in the parental control list, you will only be able to see them if you enter the channel number with the number buttons on the master remote. This is useful if you have channels you don't want your children to watch. These channels can not be accessed with the small remote or with the controls on the front of the TV.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Installation using the up and down arrows on the remote. These arrows are also shown on the screen.

D. Press 8 to select the Installation menu.

E. Highlight Edit Scan list. Press 8 to select Edit Scan List.

F. Use the arrows to move left, right , up and down to highlight items. Press the 8 button to select and unselect items. An item is selected if it has a yellow check mark in front of it.

E. Press 3 to exit when complete.

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Selecting Scan Lists for Channel ▲/▼, SPLIT SCREEN, POP, PIP, and CHANNEL GUIDE

Follow the steps below to select channels in the normal or favorite list to display when you use one of the features above.

Select normal or favorite for Channel Scan list, to scan through the channels in the list you have selected with Channel up and down buttons.

When you press SPLIT SCREEN, POP, PIP, or CH GUIDE (Channel Guide), the channels that appear are from the list you selected.

Selecting channels in the normal or favorite scan list.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Preferences using the up and down arrows on the remote. These arrows are also shown on the screen.

D. Press 8 to select the Preferences menu.

E. Highlight each list. Press 8 to select the list

F. Use the left and right arrows to select the normal or favorite scan list. A list is selected if it has a yellow check mark in front of it.

E. Press 3 to exit.
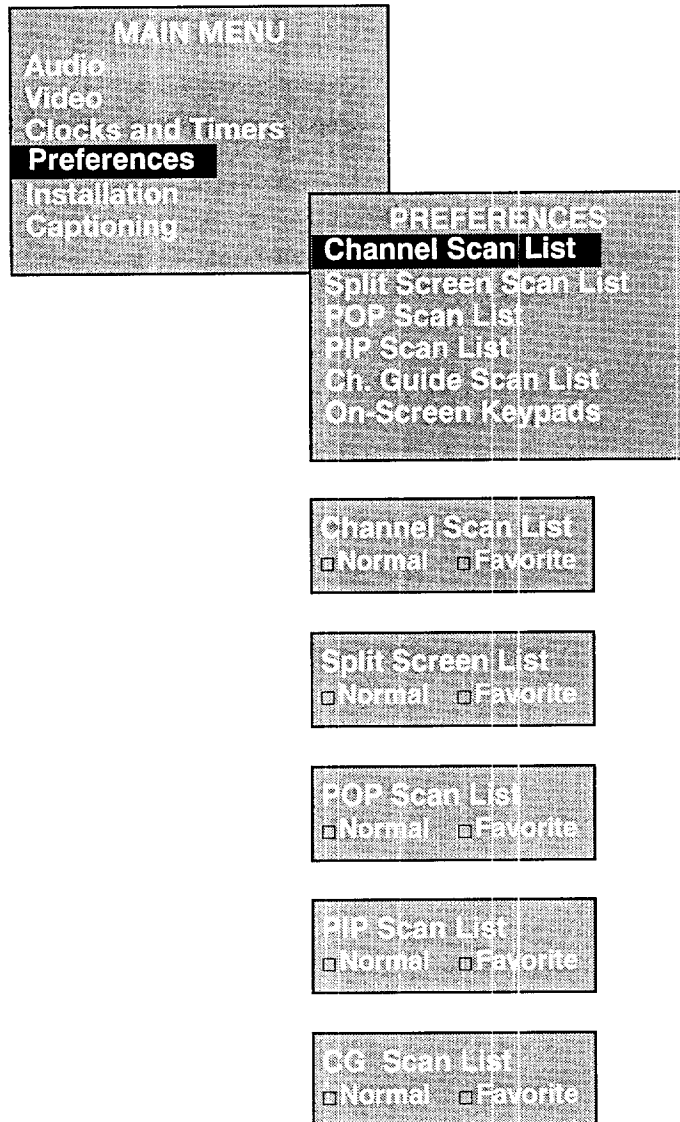
Watching Closed Captioning

The Captioning feature lets you display the audio portion of a program as text on the TV screen. This is useful to the hearing impaired or anyone who wants to watch a program without sound.

Closed Captioning is not available on all channels or at all times. Only specific programs encoded with Closed Captioning (CC) information are applicable.

In certain Cinema modes, you may not be able to see all or any Closed Captioning because of the picture expansion.

Adjust Closed Captioning.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Captioning using the up and down arrows on the remote. These arrows are also shown on the screen.

D. Press 8 to select the Captioning menu.

E. Select when you want to use Captioning from the choices below:

NEVER -
Leaves Captioning off.

ALWAYS -
Always displays Captioning when available.

CAPTIONING ON MUTE -
Displays captioning when Mute is turned on instead of sound.

Captioning Modes

Select C1 for translation of the primary language in your area.

Select C3 for captioning information usually of secondary languages, simplified English or other translations transmitted in your area.

C2 or C4 carry Closed Captioning but not necessarily in the same time frame as the sound from the program. Several second delays are typical for these modes.

Text Modes

T1, T2, T3, and T4 display on-screen boxes containing the text of information not necessarily related to the program being watched. These Text Modes may not be available in all areas.

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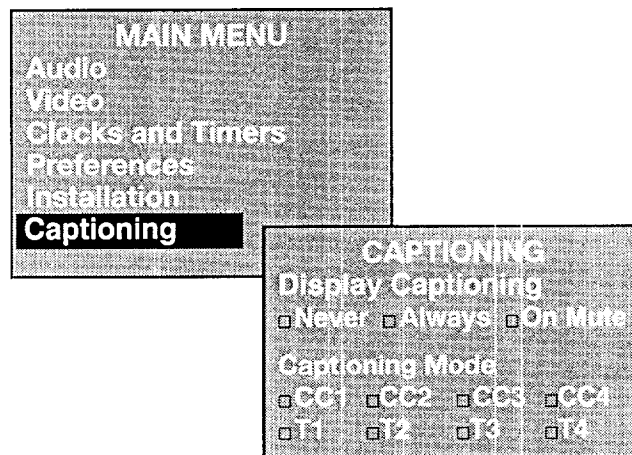
Channel Logos and Labels

You can name over 60 channels using the Logos and Labels feature. Below is the list of logos, labels, and characters that can be used to name certain channels

Name a channel.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Installation using the up and down arrows. Press 8 to select the Installation menu.

D. Highlight Logos and Labels.

E. Select Logo or Label by checking a box using the remote's left and right arrows.

F. Press 8 to select either a logo or a label.
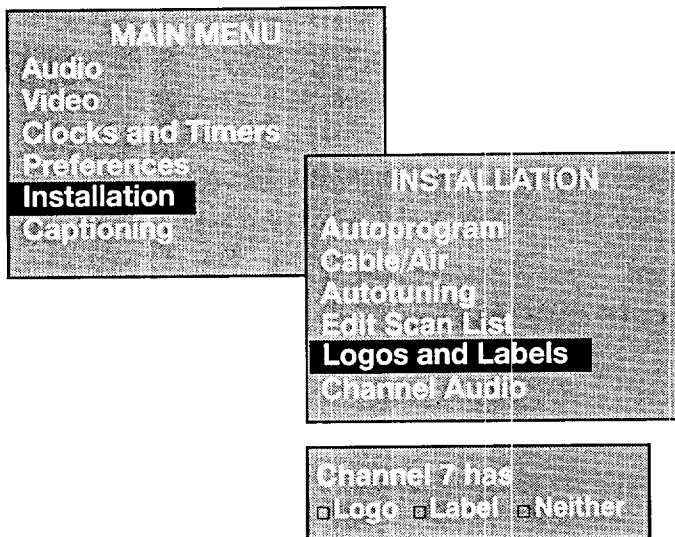
Select a logo.

A. Follow steps A-D above and select Logo in step E.

B. Use the left and right arrows to select one of the stored logos and then press 3 to save the logo.

C. When you press DSPY the logo will appear on the screen.
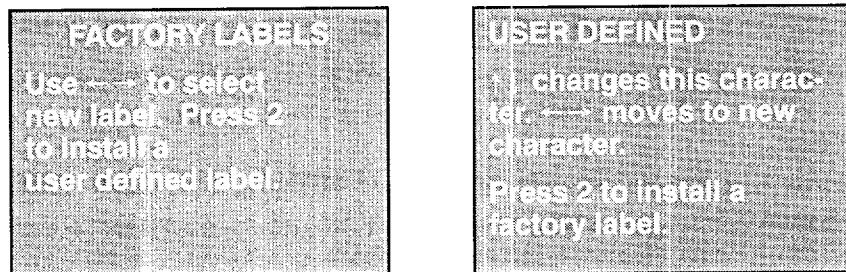
Select a label.

A. Follow steps A-D above and select Label in step E.

B. To choose a label that is already created in the factory, press the left and right arrow until you find the label you want. Then press 3 to save the logo.

OR

To manually create your label, press 2 to install your label.

Use the left and right arrows to highlight a character and use the up and down arrows to change a character. Then press 3 to save the logo.

Erase a name.

A. Follow steps A-D above in **Name a Channel**.

B. Select Neither by using the remote's left and right arrows.

Built-in Channel Labels

A&E*	CMT*	First Run	Lifetime*	Prevue	Sunshine
ABC*	CNBC*	Fitness	Local	Prime Tick	Superstat.
ACTS	CNN*	FNN	Local Ads	QVC*	TBS*
All News	Comedy	Fox*	Los Angeles	Radar	TMC
AMC	Community	GamePort	Miami	Religious	TNN*
America	Country	Government	Movie*	Request*	TNT*
Atlanta	Court TV	GuestCine1	MTV*	Request2	Travel
BET*	CTN	GuestCine2	Music	Satellite	USA*
Boston	CVN	HA	Nashville	Sci-Fi	VCR
BRAVO	Dallas	HBO*	NBC*	Scores	VCR1
Business	Denver	Headline*	New York	Seattle	VCR2
C-SPAN	Discovery*	HomeSport	News	SelecTV	VH-1*
C-SPAN II	Disney*	HomeTeam	Nick*	Shopping	VISN
Calendar	Drive-In	HSC	Nintendo	Showtime*	Weather*
CBS*	E	Independent	Nostalgia	Smart TV	WGN*
Chicago	ESPN*	Indy	Pay-view	Sports	WPIX*
Cinemax*	EWTN	Laser Disc	PBS*	Stardust	
Classics	Family*	Learning*	Playboy	Starion	

* These stations also have logos in the on-screen logo list.

Character List to Create New Labels

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
0 1 2 3 4 5 6 7 8 9 & ? + – / blank space
a b c d e f g h i j k l m n o p q r s t u v w x y z

Setting the Sleep, Event, or Display Timer

You can set your TV to turn itself off at a specific time. If you're
watching TV at night and fall asleep, the TV will turn off for you.

Set Sleep Timer.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Clocks and Timers using the up and down arrows on the
remote. These arrows are also shown on the screen.

D. Press 8 to select the Clocks and Timers menu.

E. Highlight Sleep Timer.

F. Press 8 to select Sleep Timer.

G. Enter the amount of time using the remote's number buttons. If you
enter a wrong number, use the CLEAR button to erase the number.
Then enter the new number.

H. Press 3 to exit.

Change or add the time amount.

A. Follow steps A-F to enter a new time.

B. Enter the amount of time using the remote's number buttons.

C. Press 3 to exit.

Set the Event Timer or Display Time.

If you set the Event timer, the TV will notify you after a specified
amount of time has elapsed by displaying the time and the TV status
on-screen. An hourglass will also appear with the TV status dispay.

If you set the Display time, the TV will repeatedly notifiy you at specific
time intervals by displaying the time and TV status on-screen.

Follow the steps below to set one or both of these features.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Clocks and Timers using the up and down arrows on the
remote. These arrows are also shown on the screen.

D. Press 8 to select the Clocks and Timers menu.

E. Highlight the timer you want to set. Press 8 to select the timer.

F. Use the number buttons to enter the time.

G. Press 3 to exit.
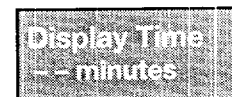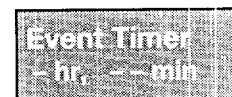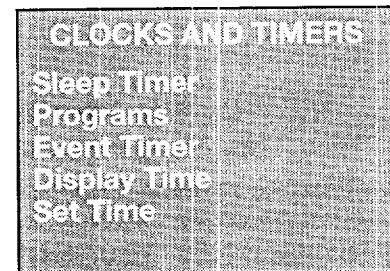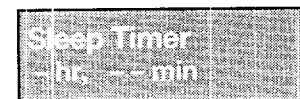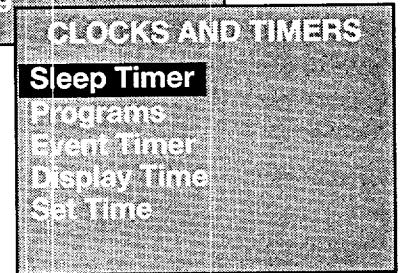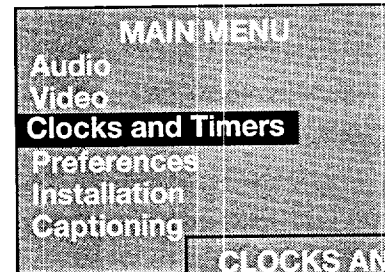
Setting the Program Timer

The TV can be set to turn on each day like your alarm clock. You can set it to turn on to any channel at a certain time. You can also set it to turn itself off again. However, the clock must be set before the program timer will work.

Turn on the Program Timer.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Clocks and Timers and press 8 to select the menu.

D. Highlight Programs.

E. Use the remote's left and right arrows to highlight either 1, 2, or 3, then press 8 to select one.

F. Use the remote buttons shown on the screen and the chart below to complete the setup.

G. Press 3 to exit.

Turn off the Program Timer.

A. Follow steps A-E above.

B. With set alarm highlighted, select with the left and right arrows.

C. Press 3 to exit.
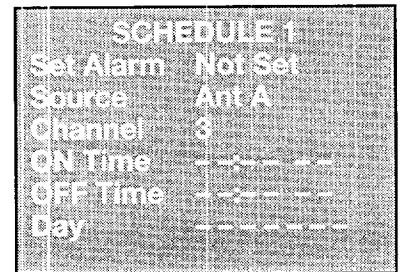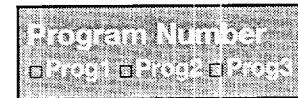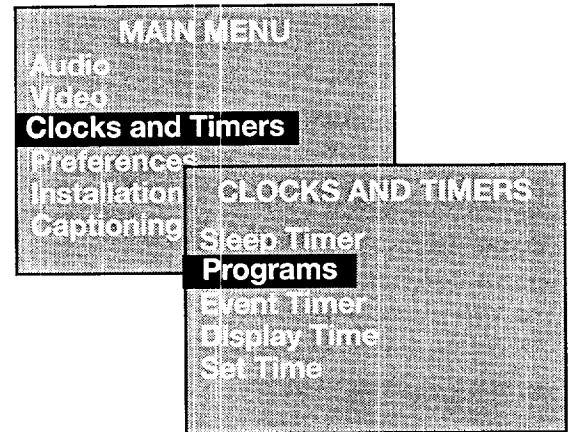
Selecting On-Screen Keypad Size

You can select a small or large size on-screen menu when using the Cinema, Split Screen, POP, PIP and Input Controls Menus. Select the small size to see more of the picture when a Controls Menu is on the screen. Select the large size to see larger words and numbers on the screen. Follow the steps below to change the setting as needed.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Preferences using the up and down arrows on the remote.

D. Press 8 to select the Preferences menu.

E. Highlight On-Screen Keypads.

F. Use the left and right arrows to check either small or large.

G. Press 3 to exit.

H. Press CINEMA, SPLIT SCREEN, POP, or PIP twice to see a wide-screen Controls menu or press INPUT once to see the Input Controls Menu.
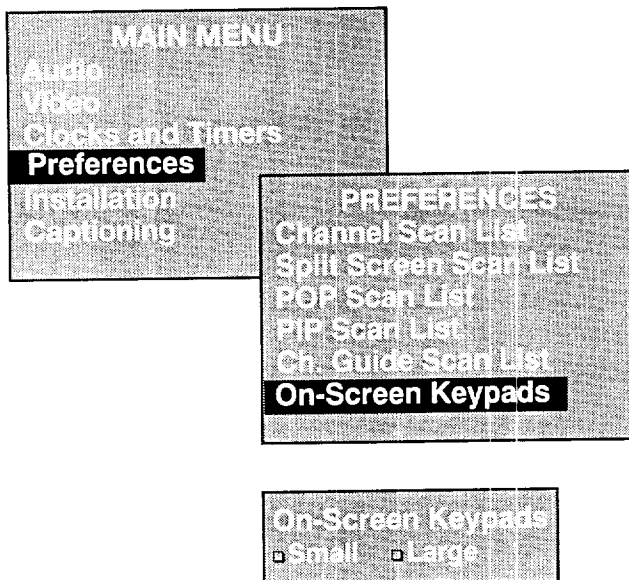
Setting Your TV for Cable or Air

Your TV automatically adjusts this feature when the TV places channels in memory (autoprogram).

Follow the steps below to change the setting as needed.

A. Press TV to set the remote to control the TV.

B. Press MENU to bring up the main menu.

C. Highlight Installation using the up and down arrows on the remote. These arrows are also shown on the screen.

D. Press 8 to select the Installation menu.

E. Highlight Cable/Air.

F. Use the left and right arrows to check either Cable for cable or Air for an antenna connected to the TV.

G. Press 3 to exit.

39
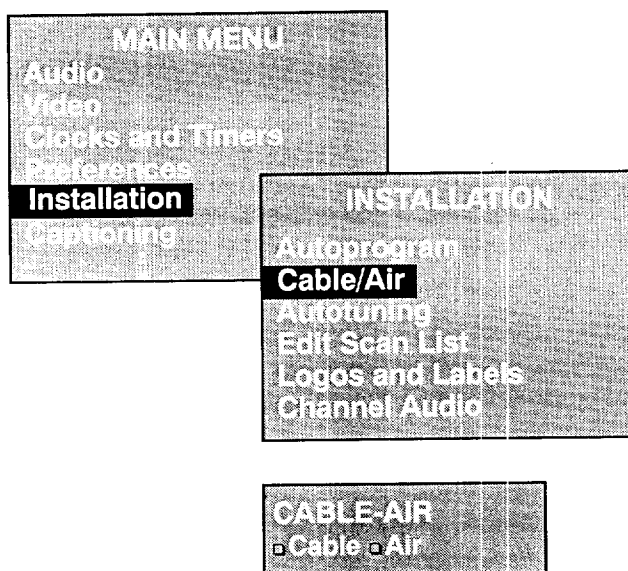
Monitor Panel
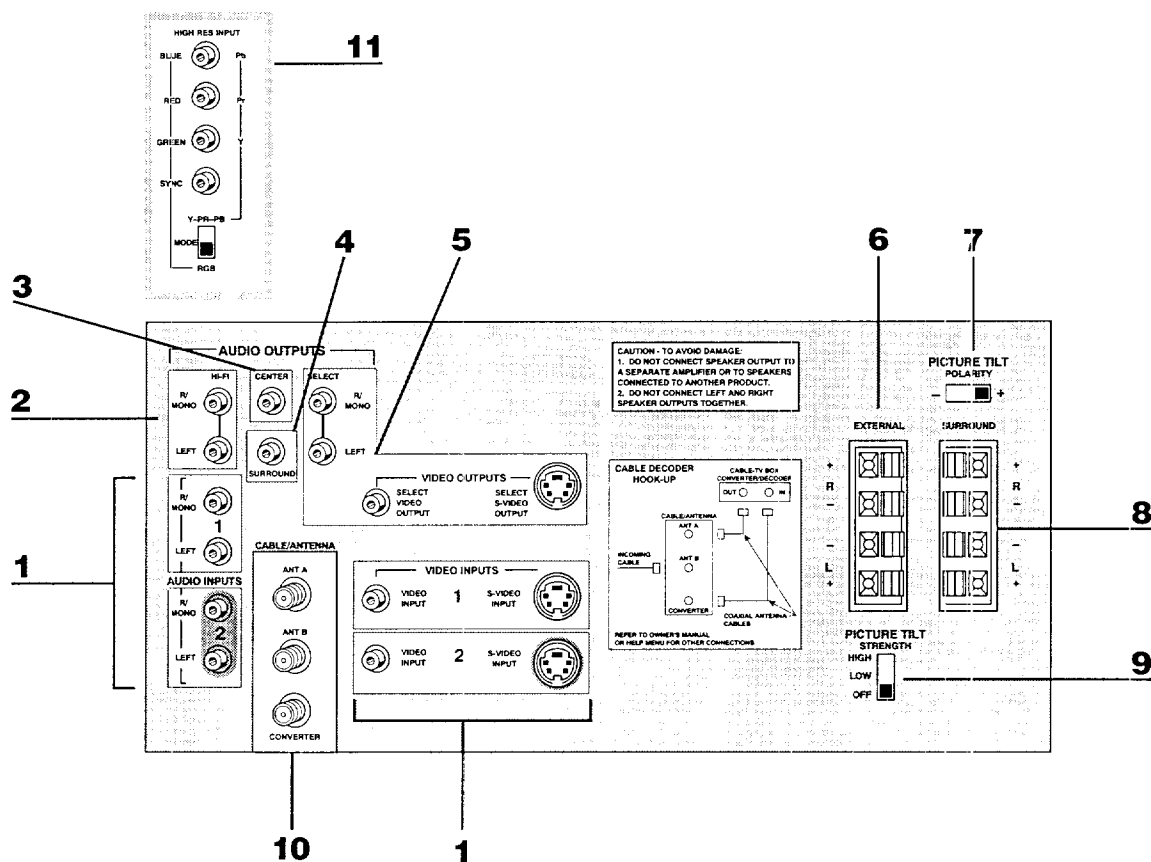
1 AUDIO INPUTS 1 and 2: R/MONO, LEFT, VIDEO and S-VIDEO INPUT

Use these jacks to connect video devices, such as VCR's, camcorders, and laserdisc players, or home computers and TV games with audio/video outputs.

Use the S-VIDEO INPUT jacks to connect an S-Video device for full benefits of the S-Video format. The S-Video cable carries only video, so you must also connect audio cables for sound.

2 HI-FI AUDIO OUTPUTS: R/MONO and LEFT

Feeds stereo sound out from what is on the TV screen. Allows connection of an external audio amplifier. Using these jacks allow you to control the volume through the stereo system.

3 AUDIO OUTPUTS CENTER Jack

Feeds center sound out from what is on the TV screen. Used to connect an audio amplifier in case you want to raise center-channel sound louder than the TV speakers will allow. Normal and Dolby3 Prologic mode must be turned on to hear the center channel sound.

4 SURROUND AUDIO OUTPUTS

Feeds surround sound from what is on the TV screen. Used to connect audio amplifier to raise the surround speakers louder than the TV's SURROUND speaker terminals will allow. Either Dolby3, Normal or Phantom Prologic, or Matrix, Hall, or Stadium Surround sound mode must be selected to hear surround sound.

40

5 SELECT AUDIO and VIDEO OUTPUTS: R/MONO, LEFT, SELECT VIDEO and S-VIDEO OUTPUTs

Provides fixed level audio and video output (audio and video signals suitable for recording) from what is on the TV screen. Used for:

- VCR editing with two or three VCRs.
- Recording TV programs onto a camcorder.
- Recording cable-TV programs onto a VCR that is not cable compatible.
- Recording audio onto an audio cassette tape recorder.

To record from an S-VHS component, you must also connect an optional S-Video cable from the SELECT S-VIDEO OUTPUT connector on the TV to the S-VHS INPUT connector on the VCR.

6 EXTERNAL Speakers Terminals

Used to connect external speakers. Eight-ohm speakers are recommended.

7 PICTURE TILT POLARITY Switch

Used to correct tilted picture from the effect of the Earth's magnetic field on an extra large color picture tube. *Details are on page 3.*

8 SURROUND Speakers Terminals

Used to connect speakers for surround sound effects. Used with normal or phantom prologic, or matrix, hall, or stadium surround sound mode. Eight-ohm speakers are recommended.

9 PICTURE TILT STRENGTH Switch

Used to correct a tilted picture from the effect of the Earth's magnetic field on an extra large color picture tube. *Details are on page 3.*

10 CABLE/ANTENNA CONNECTORS: ANT A, ANT B, AND CONVERTER

Used to attach either a home antenna and/or cable to your TV.

11 HIGH RESOLUTION INPUTS

Used to connect future compatible high resolution video sources.

Things to Know Before Connecting Cables

Protect your components from power surges

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the TV and/or component before you connect or disconnect any cables.

Avoid audio hum or interference by positioning cables correctly

- Insert all cable plugs firmly into their jacks.
- Place the audio/video cables to the sides of the TV's back panel instead of straight down the middle after you connect your components.
- Try not to coil any twin-lead cables and keep them away from the audio/video cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your TV.

Protect your components from overheating

- Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely.
- Do not stack components.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier on the top shelf of the stand so heated air rising from it will not flow around other components.

41

Home Antenna or Cable Connection

1. Use this Connection to:

Connect an indoor or outdoor antenna or cable that does not require a box to your TV.
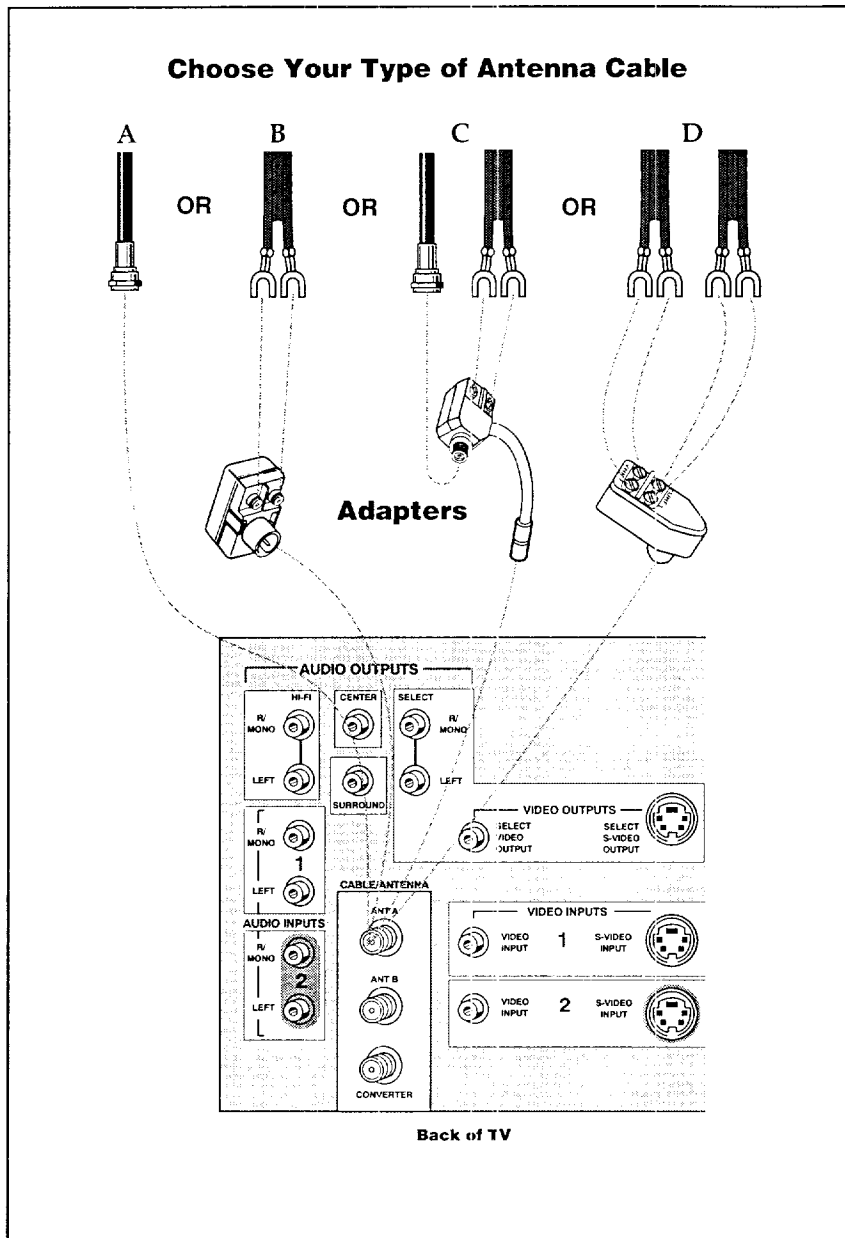
2. Accessories Needed

Order form is on pages 53-54.

Some antennas require an adapter. Use the diagram at the right to determine if you need one.

3. Connect as Shown

A. Connect your home antenna or cable to the TV using option A shown at the right if your home antenna cable is a round, coaxial cable that carries only VHF and/or UHF.

B. Connect your home antenna to the TV using option B shown at the right if your home antenna cable is a flat, twin-lead cable that carries only VHF and/or UHF.

C. Connect your home antenna to the TV using option C shown at the right if your home antenna cable(s) are round, coaxial cable that carries VHF and a flat, twin-lead cable for UHF.

D. Connect your home antenna to the TV using option D shown at the right if the antenna cables coming from your home antenna(s) are two flat, twin-lead cables.

4. Follow the Steps in the Startup section on pages 2-3.

Choose Your Type of Antenna Cable

A OR B OR C OR D

Adapters

Back of TV

Cable Box Connections

1. Use this Connection to:

Connect cable that requires a cable box which can be controlled using a remote.

2. Accessories Needed

Order form is on pages 53-54.
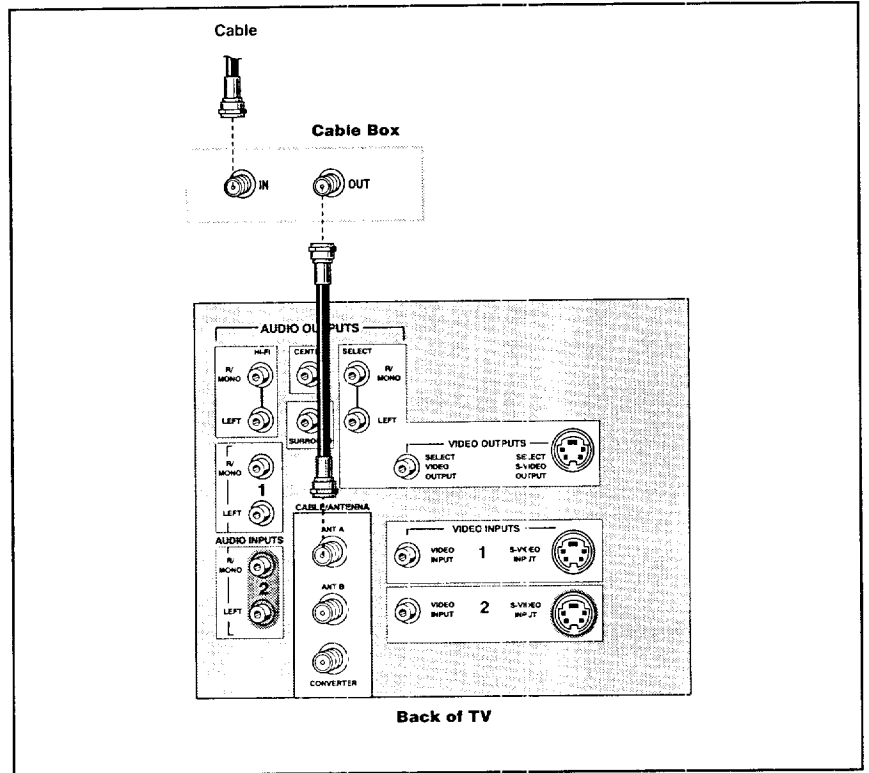
One coaxial cable

3. Connect as Shown

A second device can also be connected to ANT B.

4. Operation

Most brands of remote-controllable boxes can be controlled by the remote that came packed with your TV. *Details for programming the remote for the cable box are on page 14.*

5. Follow the Steps in the Startup section on pages 2-3.

Back of TV

1. Use this Connection to:

Connect cable that requires a cable box which can not be controlled using a remote. This is usually for scrambled cable channels for premium channels such as Disney, Showtime, etc.

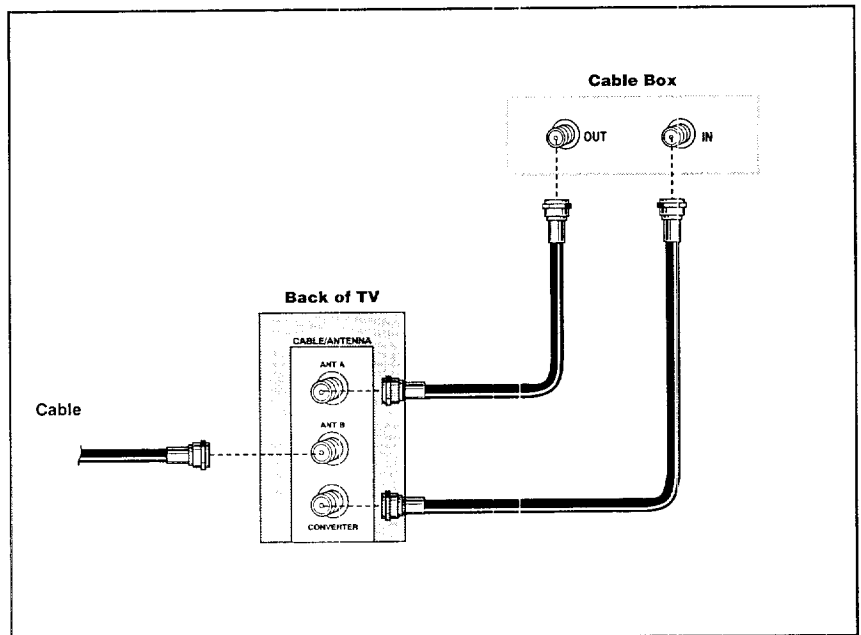## 2. Accessories Needed

Order form is on pages 53-54.

Two coaxial cables

3. Connect as Shown

4. Operation

Press the remote's ANT button to switch between the scrambled and unscrambled channels. Unscrambled cable channels come through the ANT B input. Scrambled channels from the decoder box come through the ANT A input. Leave the decoder box set to the scrambled channel, and tune your TV to the output channel of the converter box, usually 2, 3, or 4.

5. Follow the Steps in the Startup section on pages 2-3.

Back of TV

Cable Box and VCR Connection
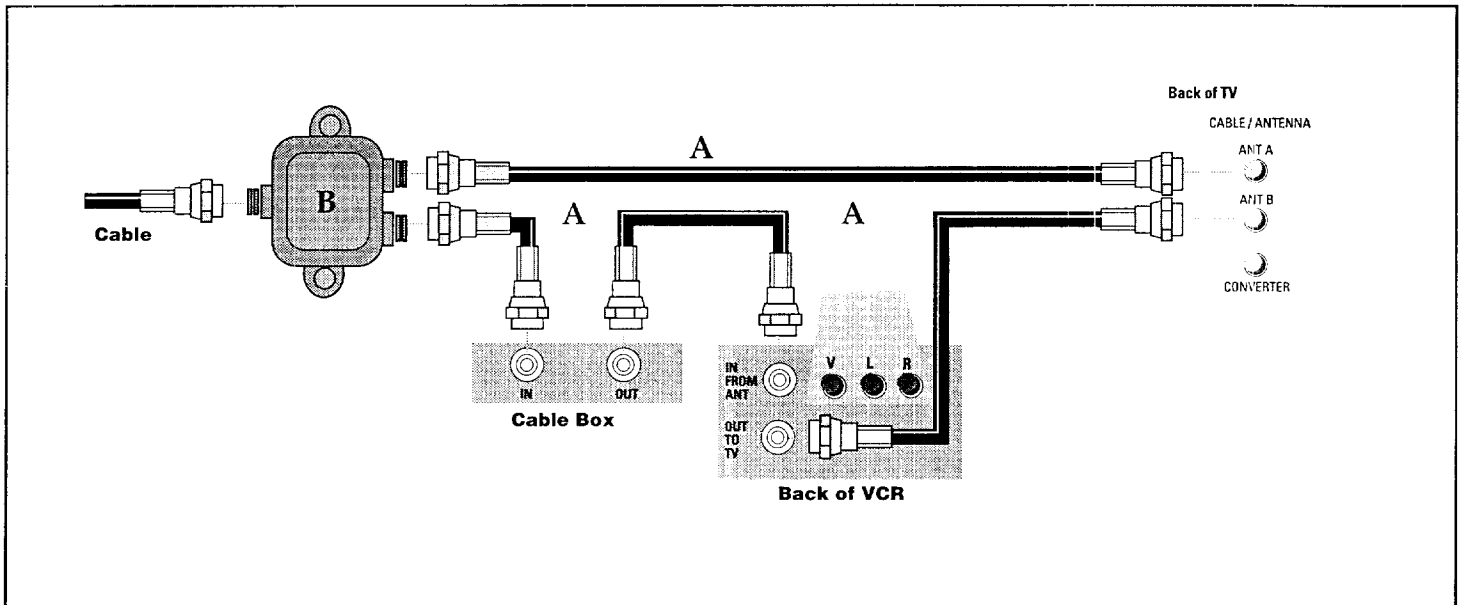
1. Use this Connection to:

Connect a cable box for premium channels and a VCR.

Record a scrambled channel on the VCR at the same time you are watching an unscrambled channel through ANT A.

2. Accessories Needed

Order form is on pages 53-54.

A. Four coaxial cables

B. One signal splitter

3. Connect as Shown

4. Operation

Tune the TV to the same channel as the position of the VCR's CH3/CH4 switch.

Tune the VCR to the output channel of the cable box, usually 2, 3, or 4.

Switch between the signals coming into the ANT A and ANT B connectors using ANT on the remote.

Unscrambled cable channels can be seen through ANT A. Scrambled cable channels can be seen through the cable box and VCR through ANT B.

5. Follow the Steps in the Startup section on pages 2-3.

VCR Basic Connection

1. Use this Connection to:

Receive Stereo Broadcasts from a Stereo VCR

Hear Stereo Playback from a Stereo VCR

Use the picture from the VCR for the small PIP (picture-in-picture).

2. Accessories Needed

Order form is on pages 53-54.

A. One coaxial cable

B. Two audio/video cables for mono VCRs or three audio/video cables for stereo VCRs

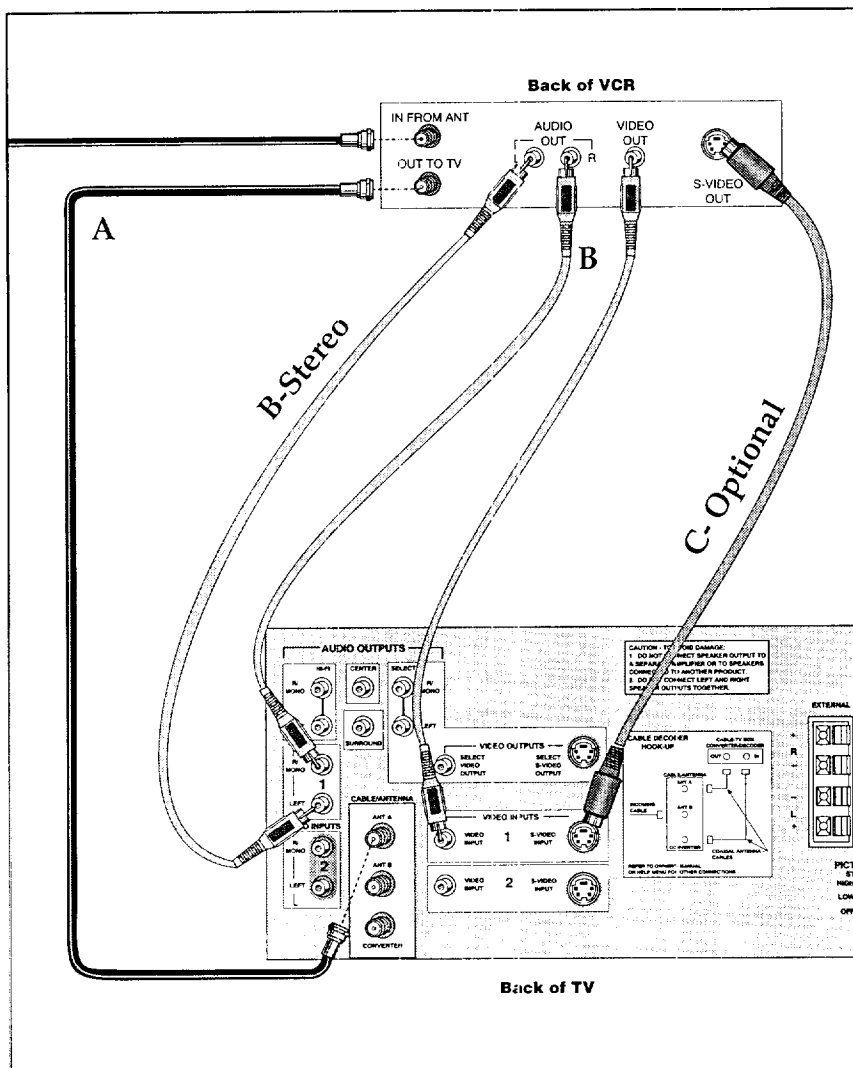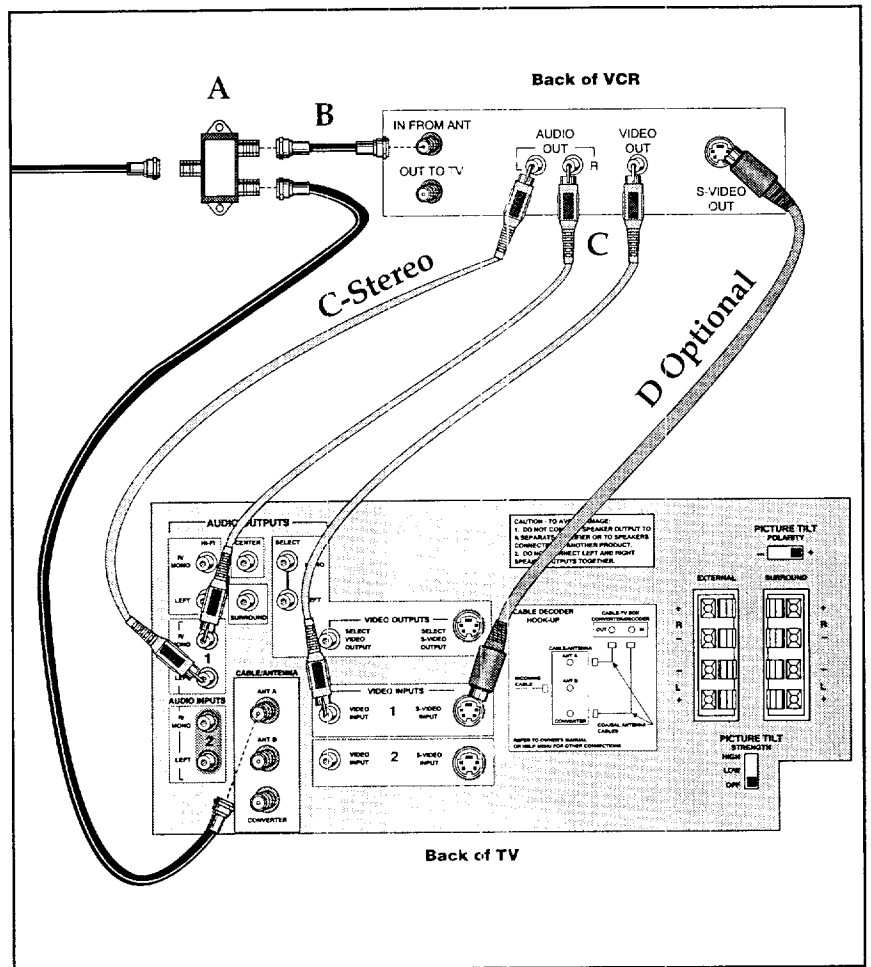C. One S-Video cable if the VCR has an S-VHS or S-VIDEO connector.

3. Connect as Shown

A second component can also be connected to ANT B and the Audio/Video Input 2 jacks.

4. Operation

The TV remote's VCR1 and VCR2 buttons may be able to turn on your VCR as well as provide basic operation. *See page 12 for programming the remote for your VCR.*

5. Follow the Steps in the Startup section on pages 2-3.

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VCR Advanced Connection

1. Use this Connection to:

Receive Stereo Broadcasts from a Stereo VCR

Hear Stereo Playback from a Stereo VCR

Record one channel with a VCR and watch a different channel on TV.

Use the picture from the VCR for the small PIP (picture-in-picture).

2. Accessories Needed

Order form is on pages 53-54.

A. One signal splitter

B. Two coaxial cables

C. Two audio/video cables for mono VCRs or three audio/video cables for stereo VCRs

D. One S-Video cable if the VCR has an S-VHS or S-VIDEO connector.

3. Connect as Shown

A second component can also be connected to ANT B and the Audio/Video Input 2 jacks.

4. Operation

The TV remote's VCR1 and VCR2 buttons may be able to turn on your VCR as well as provide basic operation. *See page 12 for programming the remote for your VCR.*

5. Follow the Steps in the Startup section on pages 2-3.

46

Laserdisc Player Connection

1. Use this Connection to:

Use the picture from the Laserdisc player for the small PIP (picture-in-picture).

2. Accessories Needed

Order form is on pages 53-54.

A. Three audio/video cables

B. One S-Video cable if the Laserdisc player has an S-VHS or S-VIDEO connector.

3. Connect as Shown

A second component can also be connected to ANT B and the Audio/Video Input 2 jacks.

4. Operation

A. The TV remote's VCR2/LDISC button may turn on your laserdisc player as well as provide basic operation. *See page 15 for programming the remote for your laserdisc player.*

5. Follow the Steps in the Startup section on pages 2-3.

Back of Laser Disc Player

Back of TV
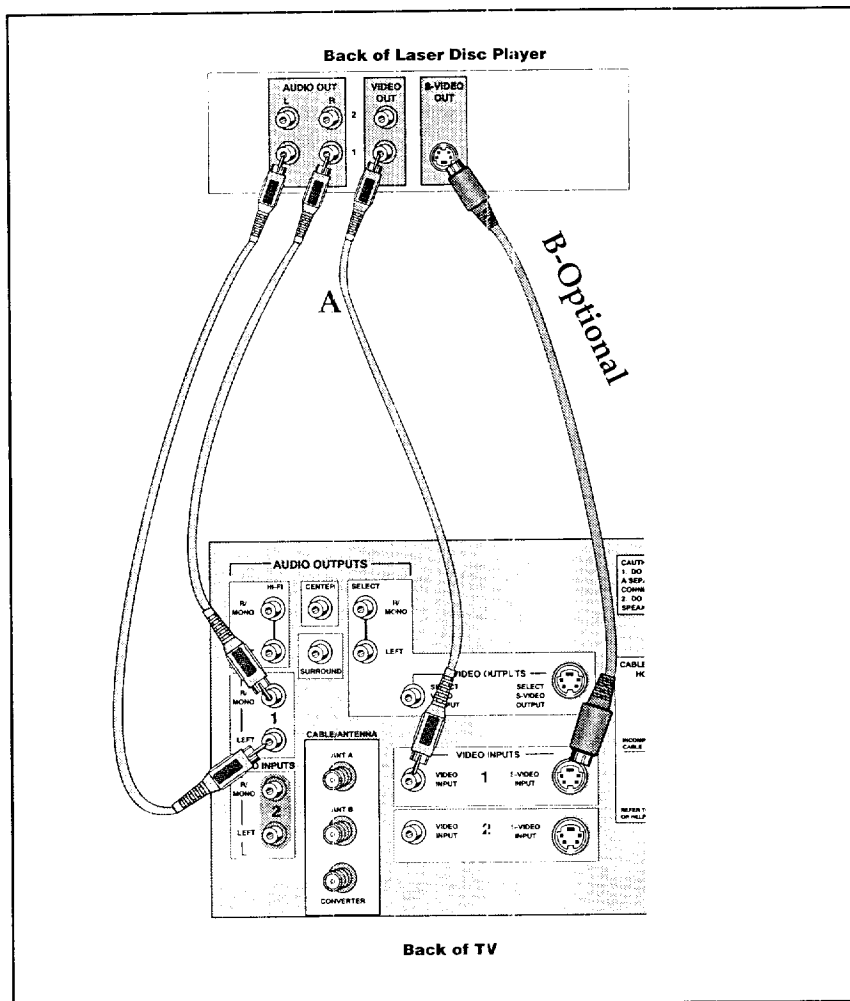
Audio Connections

Audio Amplifier

Use this connection if your amplifier is not part of a system with its own remote. *Consult the Amplifier's owner's manual for the recommended hookup.*

1. Use this Connection to:

Adjust and mute volume with the TV's remote.

Adjust the audio tone using the TV's graphic equalizer with the TV's remote.
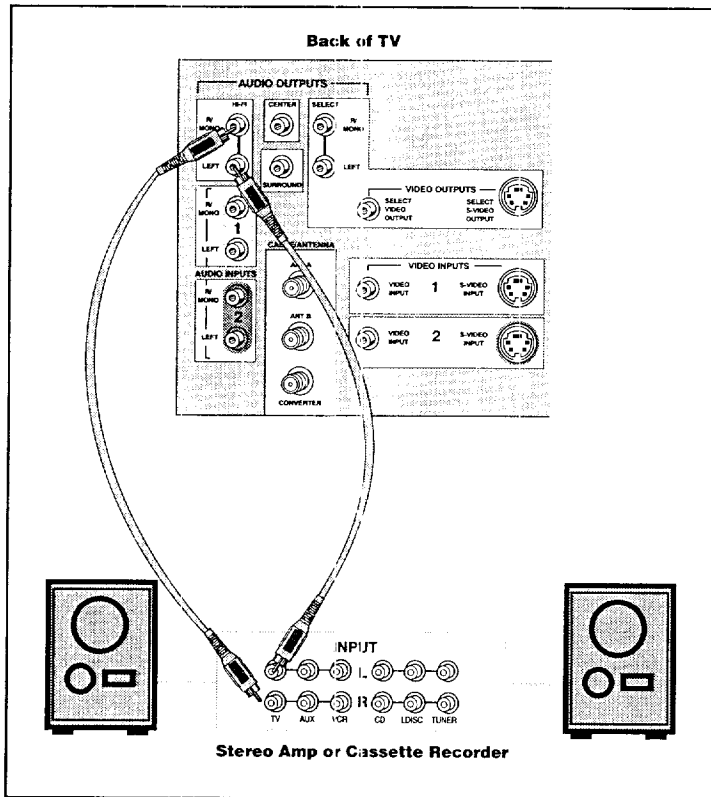
2. Accessories Needed

Order form is on pages 53-54.

Two audio/video cables

3. Connect as Shown

Connect the AUDIO OUTPUTS HI-FI OUT (R/MONO and LEFT) jacks to the corresponding input jacks on the stereo amplifier.

4. Operation

If desired, turn off the TV's Internal Speakers in the Audio Setup menu for the audio mode you have selected.

Back of TV

Stereo Amp or Cassette Recorder

Audio Cassette Recorder or Amplifier

Use this connection if your amplifier is part of a system with its own remote. *Consult the Audio Equipment owner's manual for the recommended hookup.*

1. Use this Connection to:

Connect an audio cassette recorder to record audio from the TV, without being affected by pressing the TV or remote's volume buttons..

Adjust volume using the audio system remote.

Adjust the audio tone of the audio system's graphic equalizer with the audio remote.
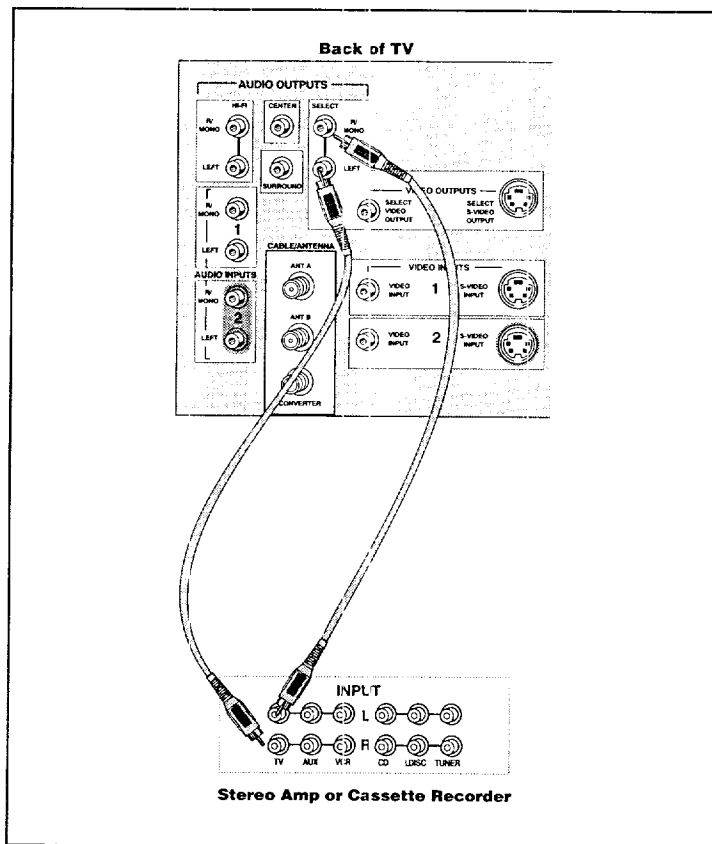
2. Accessories Needed

Order form is on page 53-54.

Two audio/video cables

3. Connect as Shown

4. Operation

Select a TV channel and turn down the sound on the TV. Turn off the TV's Internal speakers in the Audio setup menu of the audio mode you have selected. Adjust sound with controls on the amplifier or audio cassette recorder.

Back of TV

Stereo Amp or Cassette Recorder

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Audio Connections

Surround Sound

Consult the amplifier owner's manual for the manufacturer's recommended hookup.

1. Use this Connection to:

Receive more surround sound volume than the TV's Surround Sound Speaker terminals allow.

2. Accessories Needed

Order form is on pages 53-54.

A. One audio/video cable

B. Two audio/video cables and a Y-adapter if your amplifier does not have a MONO jack.

3. Connect as Shown

Connect the AUDIO OUTPUTS SURROUND jack to the MONO jack on the stereo amplifier.

If desired, you can connect one set of surround speakers to the TV and another set of surround speakers to an amplifier that is connected to the TV.

4. Operation

Select Normal or Phantom prologic, or Matrix, Hall, or Stadium surround *as described on pages 24-25.* Set the surround sound volume to mid-range with the Rear Volume in the Audio Setup menu of the mode you selected. Adjust the amplifier so the surround sound is at a normal listening level.

Back of TV
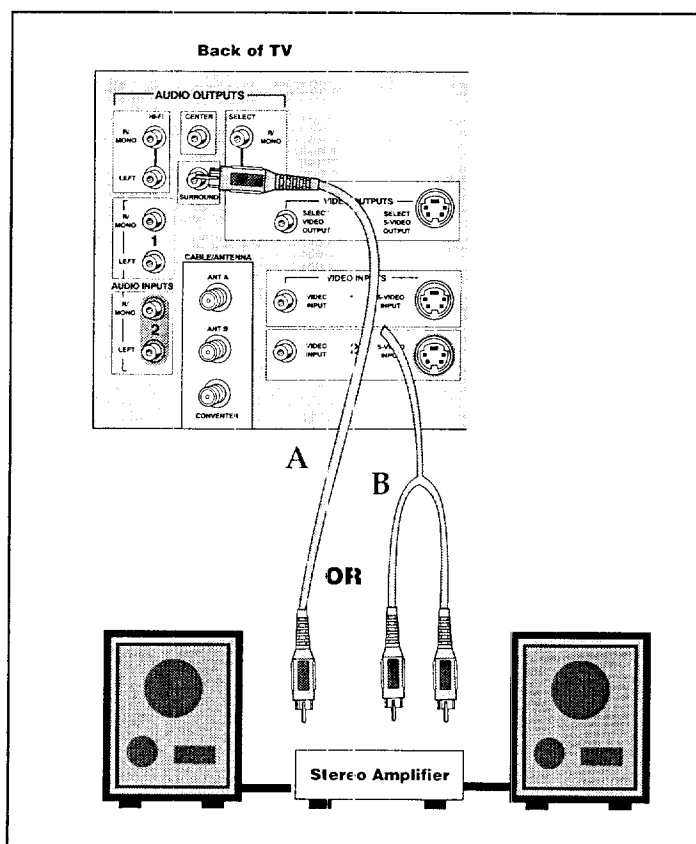
Center Sound Audio

Consult the amplifier owner's manual for the manufacturer's recommended hookup.

1. Use this Connection to:

Receive more center sound volume than the TV allows.

2. Accessories Needed

Order form is on pages 53-54.

A. One audio/video cable

B. Two audio/video cables and a Y-adapter if your amplifier does not have a MONO jack.

3. Connect as Shown

Connect AUDIO OUTPUTS CENTER to the MONO input jack on the stereo amplifier. If your amplifier does not have a MONO jack, you may need a Y-adapter to hear sound from both channels.

4. Operation

Select Dolby3 or Normal Prologic in the audio mode menu *as described on pages 27-28.*

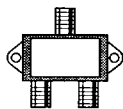Adjust the volume of center sound in the Dolby3 or Normal Prologic setup menus *as shown on pages 27-28.*

Back of TV

49
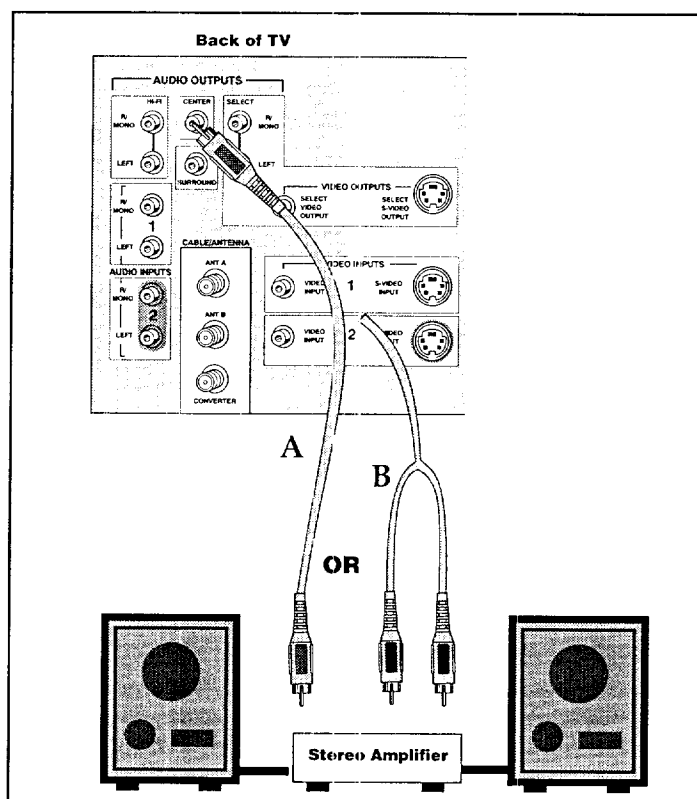
Accessories

Signal Splitter

Splitter
Used to separate
incoming signal and
send to separate
devices.

Splitter
#AH047

Coaxial Cables

Screw-on Coaxial Cable
Used to attach
antenna connectors
on the back of your
TV or VCR for a
secure connection.

#AH037 (3-ft)

Push-on Coaxial Cable
Used to attach
antenna connectors
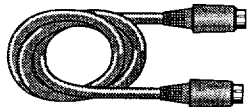on the back of your
TV or VCR for a
quick connection.

Gold-Tipped Cables
#AH065G (6-ft)
#AH066G (10-ft)

S-Video Cables

S- Video Cable
Used to connect a
compatible S-Video
component to the S-
VIDEO connector on
your TV. Cable has
a multi-pin
connector on each
end.

#VAA014 (5-ft)
#VAA020 (8-ft)

Audio/Video Cables

Single Audio/ Video Cable
Used to connect
AUDIO or VIDEO
jacks. Cable is
shielded and has an
RCA-type phono plug
on each end.
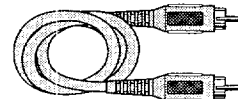
Gold-Tipped Cables
#AH069G (3-ft)
#AH070G (6-ft)

Double Audio/ Video Cable
Used to connect
AUDIO or VIDEO
jacks and has two
plugs on each end.
Cable is color-coded
and shielded and has
RCA-type phono
plugs on each end.
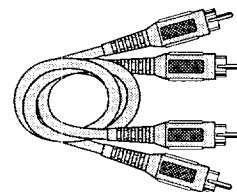
Gold-Tipped Cable
#AH075G (6-ft)

Triple Audio/ Video Cable
Used to connect
AUDIO and VIDEO
jacks and has three
plugs on each end.
Cable is color-coded
and shielded and has
RCA-type phono
plugs on each end.
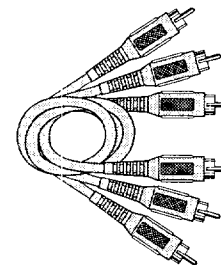
Gold-Tipped Cable
#AH077G (6-ft)

Double Audio Cable
Used to connect
AUDIO jacks not
VIDEO jacks. For
VIDEO connections
the double
audio/video cable
shown above has
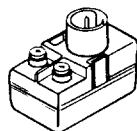better shielding to
prevent interference.
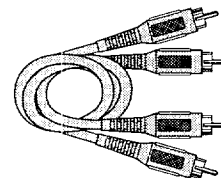
Gold-Tipped Cable
#AH072G (3-ft)

52

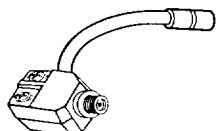# Accessories

Antenna Adapters

Antenna Adapter

Used to connect a
twin-lead cable to the
connector on your
TV or VCR.
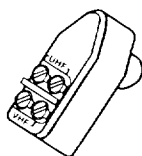
**Adapter
#193983**

Antenna Adapter

Used to attach one
coaxial cable *and* one
twin-lead cable to the
connector on your
TV or VCR.

**Adapter
#197551**

Antenna Adapter

Used to attach two
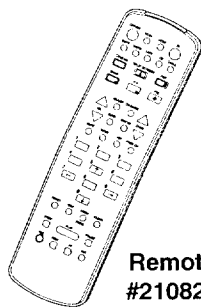twin-lead cables to
the connector on
your TV or VCR.

**Adapter
#193984**

Remote Controls

Master Remote
CRK 82A1

Remote packed with
the TV to adjust the
TV and some
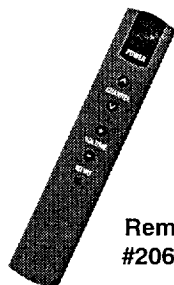compatible
component functions.

**Remote
#210824**

Simplified
Remote
CRK 60A

Remote packed with
the TV to adjust basic
TV functions.

**Remote
#206799**

Order Form
(Book No. 1Q57 254-01A)

Description	Part No.	Price	Qty	Total
Coaxial Cable Length: 3-ft	AH037	$ 3.95		
Coaxial Cable Length: 6-ft	AH065G	$ 6.99		
Coaxial Cable Length: 10-ft	AH066G	$ 8.99		
S-VHS Video Cable Length: 5-ft	VAA014	$27.55		
S-VHS Video Cable Length: 8-ft	VAA020	$29.95		
Single Audio/Video Cable Length: 3-ft	AH069G	$ 5.99		
Single Audio/Video Cable Length: 6-ft	AH070G	$ 7.99		
Double Audio/Video Cable Length: 6-ft	AH075G	$10.99		
Triple Audio/Video Cable Length: 6-ft	AH077G	$14.99		
Double Audio Cable Length: 3-ft	AH072G	$ 8.99		
Antenna Adapter	193983	$ 6.95		
Antenna Adapter	197551	$11.40		
Antenna Adapter	193984	$10.73		
Splitter	AH047	$ 3.99		
Remote Control-CRK8A1	210824	$59.95		
Remote Control-CRK60A	206799	$28.00		

Prices are subject to change without notice.

Total Merchandise ($10 Minimum Order) ....$_____

Sales Tax..$_____
We are required by law to collect the appropriate
sales tax for each individual state, county, and locality
to which the merchandise is being sent.

Shipping, Handling, and Insurance.......................................$ 5.00

Total Amount Enclosed..$_____
Use VISA or MasterCard preferably.
Money order or check must be in U.S. currency only.
No COD or CASH.

Detach Here

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Accessories

Charge your order on your VISA
or MasterCard by
filling in below

USE YOUR CREDIT CARD

IMPORTANT: Copy complete account number
from your VISA card

VISA

My card expires:

IMPORTANT: Copy complete account number
from your MasterCard

MasterCard™

Copy Number
above your
name on
MasterCard

My card
expires:

AUTHORIZED SIGNATURE

Prices are subject to change without notice.

PLEASE

Print or type your name and
address clearly. This will be your
mailing label.

A complete and correct order will
save you days of waiting.

Name:

Street:

Apt:

City:

State: Zip:

United States and Canada Orders
Order by phone using your VISA or
MasterCard. Call the toll-free number listed
below between 8 AM and 8 PM Eastern
Standard Time. Use this number only to place
an order for accessory items listed on this
order form.

1-800-338-0376

Most orders are shipped UPS within 72 hours
of receipt. If it is not possible to ship within
30 days, we will notify you.

For mail order, detach and mail the completed
order form with credit card information,
money order, or check in U.S. currency (made
payable to Thomson Consumer Electronics,
Inc.) to the following address:

Video Accessories
PO Box 8419
Ronks, PA   17573

**For more current information on these
accessories, write to the following address:**

Video Accessories Customer Service
Thomson Consumer Electronics, Inc.
Distributor & Special Products
2000 Clements Bridge Rd
Deptford, NJ   08096-2088

International Orders
This offer is valid only in the United States
and Canada. For international orders, please
send your request for a price quotation (not
an order) to:

International Customer Service
Thomson Consumer Electronics, Inc.
Distributor & Special Products
2000 Clements Bridge Rd
Deptford, NJ   USA   08096-2088

Detach Here

Front Panel Controls

Headphone | Power Indicator | MENU | CH▲ | CH▲ | VOL– | VOL+ | POWER
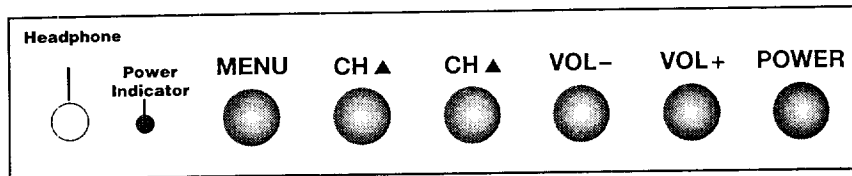
Stereo Headphone Jack
The headphone jack lets you connect optional headphones to listen to the sound from the TV. Plugging in headphones will not automatically mute the sound from the TV. This can be used to listen to the main picture or PIP at the same time others are listening to the TV. If the plug on your headphones does not fit this jack, adapters are available from your local electronics supply store

Power Indicator
The power indicator lights whenever the TV is turned on.
Turns off when a remote button is pressed.

MENU
Shows menus on screen.
Exits menus.

CH ▲ and ▼ (Channel up and down)
Moves up and down through channels in the TV channel scan list
Moves up and down menus

VOL + and – (Volume up and down)
Raises and lowers sound.
Moves left and right in the menu system.
Selects highlighted items in the menus.

POWER
Turns the TV on or off.

Remote Control Sensor
Receives commands from the remote . When using a remote, point it toward this sensor.

On-Screen Displays

Your TV shows the settings of several features on the screen. To see what features have been set on your TV, press DSPY.

Antenna A or B
Indicates you are watching whatever you have connected to the Ant A or B input on the back of the TV such as cable, antenna or a component.

Channel Logo or Label
Name you chose to describe the channel.

Channel Number
Channel number you are watching.

Clock Icon
A program timer has been set.

Closed Captioning Icon
Shows you have selected Closed Captioning.

Commercial Skip Time
The time remaining for commercial skip.

Headphone Icon
If you are using Split Screen or PIP, the headphone sound is selected for the left channel.

HiRes/S-Video/Video
TV is tuned to whatever you have connected to the Video, S-Video or HiRes inputs on the back of the TV.

Hourglass Icon
Event Timer has been set.

Mute
Sound has been muted with MUTE button.

Power Interruption
After a shut down or loss of power, the interruption message may appear on the screen. In the first few months of operation, it is normal for your TV to occasionally shut down and immediately turn itself on again.

Stereo
The sound is being broadcast in stereo.

SAP
The sound is being broadcast in a second audio program and SAP has been selected in the Channel Audio Menu.

Sheep Jumping
Sleep Timer is set to turn off the TV in one minute when the sheep start jumping across the screen.

Speakers Icon
Shows which side the main audio is coming from in Split Screen mode.

Time of Day
Time of the clock.

Volume
Sound level of the TV.

Trouble Checks

You may have problems that can be fixed with a few minor adjustments. Look for the type of problem you are having below and then try the suggestions to get your TV going again. *For warranty information see page 32.*

TV will not turn on

Plug TV in.

Plug something else into the outlet to make sure it is working.

Make sure batteries in the remote are not dead.

Aim the remote at the TV and press TV.

Make sure batteries are placed in the remote correctly. *See batteries on page 2.*

Unplug TV for a few minutes and then turn it on again.

TV turns off by itself

Sleep Timermay have been set. *See sleep timer on page 37.*

Wait 30 seconds and turn on again, a power surge may have occured.

Check Program Off Time. *See Program Timer on page 38.*

TV turns on by itself

Check Program On Time. *See Program Timer on page 23.*

Check Clock Time. *See clock on page 3.*

TV turns off and then turns on again

Power interruption may have occurred.

Automatic Shutdown circuit may have occurred. See page 55.

TV does not turn off at Program Time

Make sure alarm is turned on or off. *See alarm clock on page 23.*

Check Clock Time. *See clock on page 3.*

No picture, no sound but TV has power

Check antenna connections. Press ANT on master remote to switch between ANT A and ANT B.

Check position of Cable/Air feature. *See page 39.*

Try another channel. Inactive channel may be tuned.

Make sure component connected to the VIDEO INPUT jacks is turned on if you tune to the channel to see the picture from the VIDEO input.

Make sure TV is tuned to the same channel as the CH3/CH4 switch on back of VCR if watching a VCR.

Make sure TV/VCR button on VCR is in correct position.

Blank screen

Try another channel.

Scan the channels.

Press TV to set the master remote to control the TV.

TV may be tuned to whatever is connected to the input jacks on the back of the TV.

Press ANT on the master remote. The wrong antenna may be selected.

Check to see if Cable/Air setting has been changed. *See page 39.*

Trouble Checks

Picture poor, sound okay

Check antenna connections.

Adjust sharpness in the Video menu to inprove weak signals. *See page 21.*

Make sure TV/VCR button on VCR is in the correct position.

Picture okay, no sound

Press VOLUME + or MUTE to restore sound.

Make sure TV's Internal speakers are on. *Check the Setup menu of the Audio mode you are using.*

Captioning may be set to turn on when TV is muted. *See page 35.*

Try another channel.

The stereo broadcast may not be clear. Set the Normal Stereo feature to Mono. *See page 26.*

Make sure sound is not muted. Press MUTE on remote.

Remote Buttons don't work when you press them

Press TV to set the remote to control the TV. *See buttons on page 4.*

Unplug set for 15-20 minutes and turn on again.

Remote works part or none of the time

Clear the path between the remote and TV of any objects.

Aim the remote at the component you are trying to control.

Press TV to set the remote will control the TV.

Make sure batteries in the remote are not dead.

See if batteries are placed in remote correctly. *See batteries on page 2.*

Press any button on the remote. If the remote is working, the power indicator on the front of the TV will flicker when you press a button.

Can't select certain channel

Press number buttons. Channel may not be in the scan list you have selected. *See autoprogram on page 33.*

Make sure TV/VCR switch on VCR is in the TV position.

For numbers over 100, press the 100 button, then press the other two numbers.

Set Cable/Air feature to Cable for channels higher than 69. *See page 39.*

Noisy stereo reception

The stereo broadcast may not be clear. Set the Normal Stereo feature to Mono. *See page 26.*

No stereo on stereo station

Make sure Stereo is turned on. Set the Normal Stereo feature to Stereo. *See page 26.*

Glossary

ANTENNA
A device used to receive locally broadcast signals from TV stations. If you are receiving channels from a home antenna,you will only receive channels 2-69.

AUDIO
Sound from the TV. You can adjust sound settings in the audio menu.

AUDIO/VIDEO CABLES
Cables that carry sound and picture from one component to another.

AUTOCOLOR
Keeps fleshtones consistent each time you change channels.

AUTOPROGRAM
A procedure that automatically adds the TV stations in your area to the TV's channel scan list.

BRIGHTNESS
Light and dark areas of a picture.

CHANNEL LABEL
A name that is given to a specific channel number.

CHANNEL MEMORY
Where channels are stored after they have been placed into the channel scan list. Channels can be added or deleted from channel scan list.

CINEMA Mode
Mode of expansion for filling the 16x9 screen. The picture is expanded both horizonally and vertically to maintain the original proportions.

COLOR TEMP
Color Temperature is the difference between blue and red tones on your screen's picture. You can choose between fleshtones that are Cool, Medium, or Warm in color.

COMMERICAL SKIP
A feature that allows the viewer to scan other channels during commercials and return to the original channel after the break.

COMPONENT
Device such as VCR, laserdisc player, audio equipment, camcorder,etc.

DISPLAY
A word, words or graphics that appear on the TV screen.

DOLBY3 PROLOGIC
Actively decodes Dolby surround encoded audio to provide left, right, and center channel sound. The center channel makes the actor's voice appear to come from the TV screen regardless of where you are sitting in the room. To hear Dolby3 stereo, you must attach right and left front speakers to the EXTERNAL speaker terminals on the back of the TV.

FILL
Fills the screen by expanding the picture in the horizontal direction only. This does not cut off any portion of the picture, but causes both standard 4x3 broadcasts and letterboxed material to appear stretched across the screen. Primarily intended for use with "squeezed" video sources such as some 16x9 camcorders.

GRAPHIC EQUALIZER
Used to adjust frequency bands to accommodate room conditions or personal tastes.

HALL
Used to hear surround sound from a stereo broadcast and create the effect of being in a large room.

INPUTS
Located on back of the TV for connection of components to the TV. Used to route signals into the TV from components.

JACKS
Connectors located on the back of the TV for connecting antennas or other components.

MATRIX
Matrix simulates surround sound from a mono broadcast.

MENU
A listing of features, controls, and adjustments shown on the TV screen.

On-Screen Display
See Display.

Glossary

OUTPUTS
Located on back of the TV for connection of components. Signals are routed out of the TV into the other component.

PAN
Enables you to pan around the screen to watch those areas of the picture that may have been cut off by using Cinema A, B, or C. You can reposition the image to suit your viewing preferences. For example, use the pan menu to allow room for subtitles when watching a foreign film.

PHANTOM
Automatically produces cleaner dialog and better stereo imaging when stereo is broadcast.

PIP (Picture-in-Picture)
A feature that allows you to watch two channels at the same time, a small picture within the main picture.

POP (Picture-Outside-Picture)
Used to watch the main picture and one or more small pictures at the same time.

PROGRAM TIMER
A feature where the TV can be set to turn off at a specific time within four hours.

RESET
Returns select audio and video adjustments back to the factory setting.

SETUP
Used to set up the audio mode you have selected.

SHARPNESS
Clearness of a picture.

SKIP:30
See Commerical Skip.

SIGNAL
Electrical waves that are sent or received through cables or antennas.

SOURCE(S)
Components or devices that are connected to the TV.

SPLIT SCREEN
Used to display two pictures side-by-side on the screen at the same time.

STEREO
Sound that comes through two channels (left and right). Stereo components have two audio output jacks.

SURROUND SOUND
Synthesizes rear-channel information to create a threatre-like sound. One or more surround sound speakers are required.

S-VHS
Super Video. A format used by VCRs and Camcorders which improves the picture quality. S-VIDEO appears on the TV screen when you use this feature.

S-VIDEO
See S-VHS.

TUNER
A device that receives and sends signals. The signals can be adjusted with the tuner.

VIDEO
Picture reproduced by the television. This is the picture on the TV. You can adjust several parts of the picture in the Video Menu.

VOLUME LIMITER
Sets the limit for the maximum volume level.

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