. PS 321307M CTC179CJ CTC 179 C J PS 35130 PS--35-16-0---CICITODJ



# SAFETY INFORMATION

#### 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.

**Caution:** To reduce the risk of electric shock, match wide blade of plug to wide slot, fully insert.

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

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.

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.

### WARNING

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

NOTE TO CABLE TV INSTALLER



### SO ADVANCED. YET SO SIMPLE.TM

We're building our reputation on products that are so advanced, they're simple. If you want all the benefits of the latest technology, without the complexity, we have a very simple solution.

It's called ProScan. State-of-the-art technology that real people can use.

Thank you for choosing ProScan. And welcome to our company-wide commitment to your complete satisfaction and viewing enjoyment.

- -

# QUICK REMOTE

### **TV OPERATION**

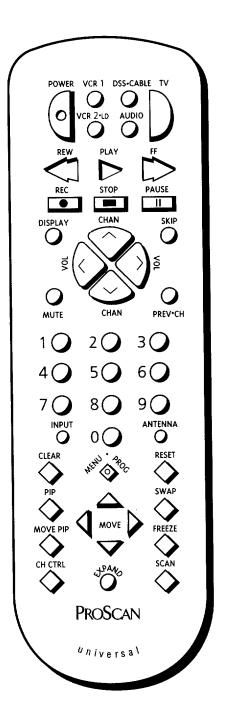
- 1. Press TV to turn on the TV.
- 2. Press the CHAN buttons to change channels, or enter channels directly with the number buttons.
- 3. Press the VOL buttons to change the volume.

### **GETTING AROUND IN THE MENUS**

- 1. Press MENU to bring up the Main Menu.
- 2. Use the MOVE arrows to navigate around the menus, highlight menu items, and make adjustments.
- 3. Press MENU to select your choice and save your changes.

### PIP (PICTURE-IN-PICTURE) OPERATION

- 1. Press PIP to bring up the PIP window.
- 2. Press MOVE PIP to move the PIP window to different corners of the screen.
- 3. Press CH CTRL to be able to change channels in the PIP window. Press CH CTRL again to change channels in the main picture.
- 4. Press SWAP to swap the picture in the PIP window with the main picture.
- 5. Press PIP, then CH CTRL, then SCAN to use the PIP window to auto surf through the channels in the channel list.



# TABLE OF CONTENTS

First Things First	
Using the Menu System	7
The Menu Rule: Point and Select	
Menus and Control Panels	9
Interactive Setup	
Entering Setup	
Auto Channel Search	
Set the Time	
Label the Channels	
Set the VCR1 Channel	
Set the VCR2•LD Channel	
Set the DSS•CABLE Channel	

## Programming the Remote ......23

Programming the remote to Control a VCR	24
Programming the Remote to Control a Laserdisc Player	26
Programming the Remote to Control an Audio Device	26
Programming the Remote to Control a DSS Receiver	
Programming the Remote to control a Satellite or Cable Box	
Programming the Simple Remote	
Using the remote to control a device	

Tour of the TV	
Remote Buttons	
Simple Remote Buttons	
Channel Marker	
Back Panel	
Front Panel	

Quick Reference Guide	
Audio Menu	40
Rister Outline March	

icture Quality Menu	. 41
Screen Menu	. 42
īme Menu	. 43
Channel Menu	. 44
Setup	

# 

PIP (Picture-in-Picture) Operation	50
Closed Captioning	52
On-screen Program Details	
Choosing an Audio Processor	55

# TABLE OF CONTENTS

Appendix A: Connections	57
Things to Know Before Connecting Components	
Connection A: TV and mono VCR	
Connection B: TV and stereo VCR	59
Connection C: TV, VCR and Laserdisc Player	60
Connection D: TV and (2) VCRs	
Connection E: TV and Laserdisc Player	63
Connection F: TV and DSS Receiver	64
Connection G: TV, VCR, and DSS Receiver	65
Connection H: TV, VCR, DSS Receiver, and Laserdisc Player	66
Connection I: TV, (2) VCRs, and DSS Receiver	

### Appendix B: Other Connections ......70

Connecting External Speakers	70
Connecting Surround Sound Speakers	
Connecting Speakers to the TV	70
Connecting a Subwoofer	
Connecting Audio Components	
Connecting a Stereo Amplifier	71
Connecting a Tape Deck	
Connecting a Camcorder for Playback	
Connecting a Camcorder to Record from TV	

## Appendix C: Troubleshooting......74

Appendix D: Limited Warranty	76
Appendix E: Care and Cleaning	77
Index	78

Accessories ..... Inside Back Cover

#### ALLOW ME TO INTRODUCE MYSELF ...

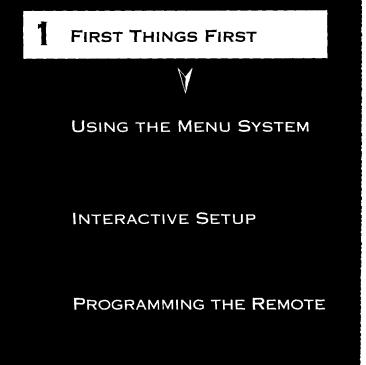
My name is Scott, and I wrote this PROSCAN User Manual. You probably weren't expecting a personal introduction, but then, a PROSCAN TV is designed to give you more than you expected—and that includes the User Manual.

#### AN 80-PAGE INSTRUCTION BOOK?

You used to be able to buy a TV, plug it in, stick a rabbit on top of it (or the ears, anyway), and you were off and running. Watching. Whatever. Times have changed, though. But don't worry, it looks more complicated than it is.

#### READ THE FIRST FOUR SECTIONS

The first four sections of the manual take you through all the steps needed to set up the TV. The remaining chapters and appendices provide additional information. You can thumb through these sections whenever you get some time; if you have a specific question, refer to the table of contents or the index.



The road map on the blue intro pages is there to let you know where you are in the setup process.

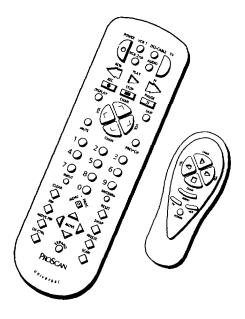
### STEP 1

Unpack the TV and accessories. The accessories packed with TV include the Universal Remote, the Simple Remote, four AAA batteries, an antenna adapter, and an AV jack for plugging your camcorder into the front of the TV. Make sure to locate the Connections Foldout.

#### Important Information: Optional Stand

A matching stand has been designed to be used with this television. The recommended stand, model RB3510, is provided with hardware to secure the TV to the stand so that it cannot be pulled off easily or tipped over. This stand is available from your local PROSCAN dealer, and is not available by mail order. To locate your nearest dealer, call this toll-free number: 1-800-PROSCAN.

**Caution** If you choose not to use the recommended stand for your television, take precautions that the stand or other furniture on which the TV is placed is properly located and of adequate strength to prevent the TV from being tipped over accidently or pulled off the stand. Tipping over the TV or pulling it off the stand could cause both personal injury and damage to the set.

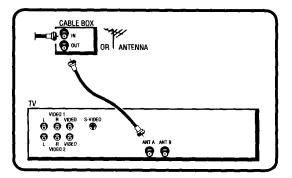


### STEP 2: CONNECTING YOUR TV

If you're only going to connect the TV to your home antenna or cable box, use the "TV Only" connection shown below. If you're going to connect the TV to a VCR, laser disc player or other component, we recommend you use the Connections Foldout. The Connections Foldout details ten diagrams that are recommended for hooking up the TV to a cable box or antenna, one or two VCRs, a laserdisc player, and a DSS receiver.

### TV ONLY

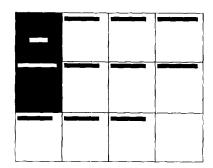
This is a basic connection from an antenna or cable box to your TV. Connect the cable as shown. If you have a VCR or other components to connect to the TV, skip to the top of the next page.



### TV WITH OTHER COMPONENTS

Use the Connections Foldout to connect your TV to a VCR, laserdisc player, and/or DSS<sup>™</sup> receiver. After connecting your TV and other components, proceed to the next step. See *Appendix A*, p. 57, for detailed information about using each of these connections.

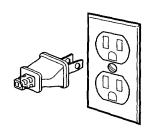
If your components don't match those shown on the foldout, or if you prefer a different connection, see your dealer or specific component user manuals.



### STEP 3

Plug in the TV.

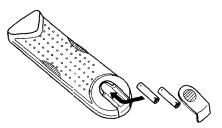
Plug the end into the wall outlet, matching the wide blade of the plug with the wide slot in the outlet. Be sure to insert the plug completely.



### STEP 4

Put batteries in the remote.

- Slide the battery compartment cover off back of the remote.
- Insert the four AAA batteries as shown, matching the + and ends of each battery in the compartment.
- Replace the cover.



### STEP 5

Turn on the TV.

• Press TV on the remote, or press POWER on the TV itself.

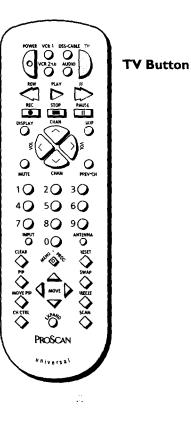
### STEP 6

Read the next section, *Using the Menu System*, which is a brief overview of the basic rules for getting around in the menus.

### STEP 7

ſ

Proceed to section three, *Interactive Setup*. The interactive setup routine walks you through the steps needed to fully configure the TV. The first step is the auto channel search, which puts available cable TV or antenna signals into the TV's memory. **You must complete the auto channel search.** After this first step, you can skip any of the remaining steps and return to them later.



Setup is designed to be used with the Connections Foldout.

#### FIND OUT HOW TO USE THE MENUS

The TV's features are accessed through the onscreen menu system. There is one rule that teaches you all you need to know about navigating through the system: point and select. FIRST THINGS FIRST 2 USING THE MENU SYSTEM V INTERACTIVE SETUP PROGRAMMING THE REMOTE

> Menuing systems are a necessary part of the TV software. To get the most out of the TV, you have to tell it how you want it to work.

### THE MENU RULE: POINT AND SELECT

You only need to know one rule to use the on-screen menus and control panels: point and select.

### WHAT IS POINT AND SELECT?

The point and select method has two steps.

1. **Point** to a menu item using the MOVE arrows on the remote.

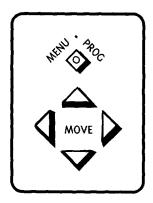
To point up or down, press the up or down arrows. To point left or right, press the left or right arrows.

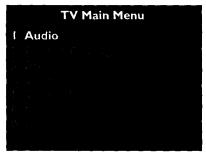
2. Select a menu item by pressing MENU.

Selecting an item tells the TV's menu system to go ahead and make the change or go to a place you have indicated.

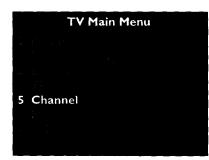
For example, to select the Channel menu from the Main Menu:

1. Press MENU to bring up the Main Menu.

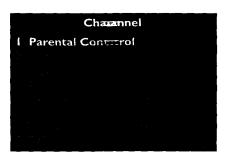




2. Point to *Channel* by pressing the down arrow until the word Channel is highlighted in green.



Press CLEAR at any time to remove all displays from the screen and return to TV viewing. 3. Press MENU to select Channel. The Channel menu comes up.



- 4. Point to Exit and press MENU to return to the Main Menu.
- 5. Point to *Exit* and press MENU to leave the menu system and return to TV viewwing.

If you ever want to leave the menu system, press CLEAR.

Once you know how to point and select your way through the menus, you can apply this mule in the control panels, which do the real work in the menu system.

Whenever you're in a menu, you can exit by pressing 0 until you're out of the system.

### MENUS AND CONTROL PANELS

There are two parts to the menu system: menus and control panels. But before you can use a control panel, you first have to move through at least one menu—the Main Menu.

#### MENUS

The first menu is called the Main Menu. To bring up the Main Menu:

1. Press MENU on the remote or front panel:



Menus take you to another menu or a control panel. There are two ways to make a choice in a menu:

- Point and select with the MOVE arrows and MENU.
- Press a number button on the remote. For example, in the Main Menu press 3 to go straight to the Screen menu.

#### To exit a menu

There are three ways to exit a menu:

- Point to Exit and press MENU.
- Press 0 on the remote.
- Press CLEAR. The on-screen displays are cleared from the screen and you are returned to TV viewing.

Feel free to explore the menu system. If you ever get lost or confused in the menus, or you're just plain tired of exploring, press CLEAR to remove the menus from the screen and start over again.

#### **CONTROL PANELS**

Control Panels do the work in the menu system: it's where you choose a setting, enter a number, or adjust a level such as tint or brightness. There are three kinds of control panels: sliders, choice lists, and numeric entry.

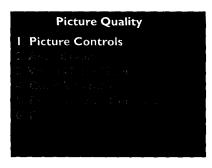
#### **Sliders**

Sliders are used to make adjustments to a particular control.

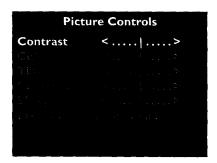
For example, to adjust the TV's tint:

- 1. Press MENU to bring up the Main Menu.
- 2. Point to *Picture Quality* and press MENU. The Picture Quality menu comes up.

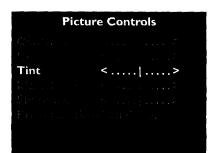
• •



3. Press MENU to select Picture Controls.



4. Press the down arrow to point to *Tint*.



You don't need to remember the names of the control panel types. Once you've learned how each type works, you'll be able to use any part of the menu system.

5. Press the right or left arrow to adjust the indicator line. Notice that the picture changes as you adjust the tint.

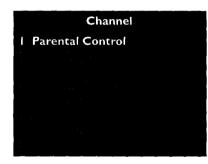
Now that you know how the Tint slider works, you know how all sliders work.

### **Choice Lists**

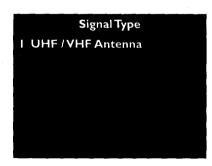
Choice lists are used to choose a particular setting from a list of settings. The current setting in a choice list is always highlighted in green.

For example, to indicate whether you're currently using a home antenna or a cable TV signals:

- 1. Press MENU to bring up the Main Menu.
- 2. Point to *Channel* and press MENU. The Channel menu comes up.



3. Point to Signal Type and press MENU. The Signal Type choice list comes up with the current setting highlighted in green. For example:



- Point to the correct setting for your connection and press MENU. As soon as you select a choice, the TV saves your change, and you are returned to the previous menu.
- 5. Point to Exit and press MENU to return to the Main Menu.
- 6. Point to Exit and press MENU to return to TV viewing.

You can enter numbers directly by using the number buttons.

#### **Numeric Entry**

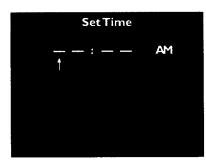
A numeric entry control panel is used to enter numbers or letters.

For example, to set the current time:

- 1. Press MENU to bring up the Main Menu.
- 2. Point to *Time* and press MENU.

Time	
I Sleep Timer	

3. Point to *Set Time* and press MENU. The Set Time numeric entry control panel comes up. Notice the pointer underneath the first dash.



- 4. Press the up arrow to enter a number in that column.
- 5. Press the right arrow to move to the next column, then press the up or down arrow to enter a number.
- 6. Repeat Step 5 until you have entered the hour and minute for the current time. Notice that when you reach the last column, pressing the up or down arrow changes whether the time reads AM or PM.

Trivia: This type of control panel is referred to as a "one-armed bandit." I don't know why.

If the control panel is not set at the current time, use the left arrow to go back over the columns and the up arrow to make changes.

#### THERE'S AN ON-SCREEN SETUP ROUTINE

Your TV has software that tells it what to do, just like a computer. The interactive setup routine takes you through the steps needed to configure the TV:

- Search for available channels
- Set the time
- Make channel lists and labels
- Set the VCR1 channel
- Set the VCR2•LD channel
- Set the DSS•CABLE channel

FIRST THINGS FIRST USING THE MENU SYSTEM 3 INTERACTIVE SETUP

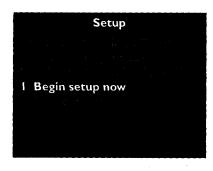
#### **PROGRAMMING THE REMOTE**

Complete the first step, auto channel search, to receive antenna or cable TV signals. After that, you can skip other steps and return to them at your convenience.

### **ENTERING SETUP**

Setup is accessed through the Main Menu:

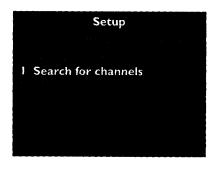
- 1. Press MENU to bring up the Main Menu.
- 2. Point to Setup and press MENU. The first Setup screen comes up,
- asking you to confirm that you want to begin.



3. Press MENU to begin the Setup routine.

#### **AUTO CHANNEL SEARCH**

The first part of the setup routine asks you if you want the TV to search automatically for all channels available through your antenna or cable TV system. This is sometimes called "autoprogramming."



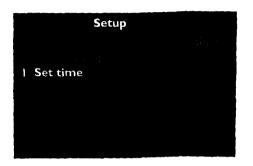
- Press MENU to tell the TV to begin searching for channels. The display gives you a progress report and tells you when it has finished.
- 2. Press MENU to continue.

You must complete the Auto Channel Search to receive TV signals and put channels in memory.

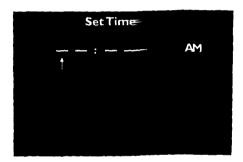
Auto Channel Search can also be accessed through the Channel menu.

### SET THE TIME

The second step lets  $y_0 = y_0$  set the time of day.



1. Press MENU to brand up the Set Time control panel.

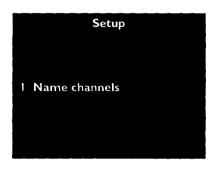


- 2. Use the left and <u>spaces</u> and down arrows to scroll through the numbers and change from <u>M</u> to PM.
- 3. Press MENU to communitie.

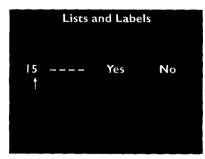
÷

### LABEL THE CHANNELS

The third step lets you make your channel list, label your channels, and choose whether each channel belongs in the parent-approved channel list. (For more, see *Lists and Labels*, page 44.)



1. Press MENU to bring up the Lists and Labels control panel.



- 2. Use the left and right arrows to point to the four different areas of the control panel (called "fields").
- 3. Use the up and down arrows to scroll through the numbers and letters and select *Yes* or *No* in the Normal and Parent approved fields.
- 4. Repeat this process for each of your channels. Then press MENU to continue.

Two Tips from Keith, the Design Engineer:

Use the CHAN buttons to change channels in the Chan # field. This works even if you're not in the Chan # field. Or, enter the channel number directly using the number buttons on the universal remote. To enter a number greater than 99, press and hold "1" to enter the hundreds digit, then press the two remaining numbers.

The lists and labels feature can also be accessed from the Channel menu. Because this procedure can be time consuming, feel free to skip this step and come back to it later.

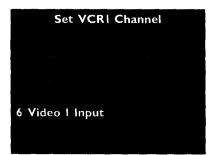
#### SET THE VCR1 CHANNEL

The fourth step lets you set the VCR1 channel. When you set the VCR1 channel, you're telling the TV what channel to tune to when you press the VCR1 button on the remote.

For example, if you have a VCR connected to the Video 1 input jacks on the back of the TV, you want the TV to tune to the Video 1 input channel when you press the VCR1 button. If you don't have a VCR1 component connected to the TV, skip this step or select *Not Connected* from VCR1 Channel choice list. (For more, see *Auto Tuning*, page 45.)



1. Press MENU to bring up the VCR 1 choice list.



2. Point to the choice that matches the way you have your VCR connected to the TV.

If you used the Connections Foldout to hook up your TV, use the table shown at the right to select the VCR1 channel.

3. Press MENU to continue.

#### If you used

Connection A	Video 1 Input
Connection B	Video 1 Input
Connection C	Video 1 Input
Connection D	Video 1 Input
Connection E	Not Connected
Connection F	Not Connected
Connection G	Video 2 Input
Connection H	Ch3 Antenna A*
Connection 1	Video 2 Input

Select

\* Or Ch4 Antenna A, depending on how your VCR's 3/4 switch is set.

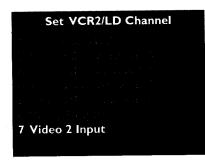
### SET THE VCR2•LD CHANNEL

The fifth step lets you set the VCR2•LD channel. When you set the VCR2•LD channel, you're telling the TV what channel to tune to when you press the VCR2•LD button on the remote.

For example, if you have a laserdisc player connected to the Video 2 input jacks on the back of the TV, you want the TV to tune to the Video 2 input channel when you press VCR2•LD. If you don't have a VCR2•LD component connected to the TV, skip this step or select *Not Connected* from VCR•LD Channel choice list. (For more, see *Auto Tuning*, page 45.)

	Setup
i Use	Actuality in the second of the observed the second of the TV with a VCR or LD
æ	

1. Press MENU to bring up the VCR2•LD choice list.



2. Point to the choice that matches the way you have your second VCR or laserdisc player connected to the TV.

If you used the Connections Foldout to hook up your TV, use the table at right to select the VCR2 channel.

3. Press MENU to continue.

#### If you used Select

Connection A	Not Connected
Connection B	Not Connected
Connection C	Video 2 Input
Connection D	Ch3 Antenna A*
Connection E	Video I Input
Connection F	Not Connected
Connection G	Not Connected
Connection H	Video 2 Input
Connection I	CH3 Antenna A*
* Or Chh4 Antenna A, depending on	

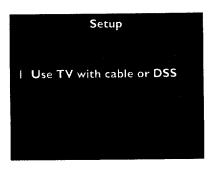
how your VCR's 3/4 switch is set.

#### SET THE DSS/CABLE CHANNEL

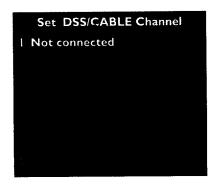
(Note: The DSS/Cable Channel works in combination with the SAT • CABLE button on your remote.)

The last step lets you set the DSS/CABLE channel. When you set the DSS/CABLE channel, you're telling the TV what channel to tune to when you press the SAT•CABLE button on the remote.

For example, if you have a cable box connected to the Antenna A on the back of the TV, and you usually tune your TV to channel 3 to see cable stations, you want the TV to tune CH 3 Antenna A when you press SAT•CABLE. If you don't have a satellite receiver or cable box connected to the TV, skip this step or select *Not Connected* from the DSS/CABLE Channel choice list. (For more, see *Auto Tuning*, page 45.)



Press MENU•SELECT to bring up the DSS/CABLE choice list.



(Continued on next page)

Important: The remote cannot control both a cable box and the satellite receiver. The chart details how to set the SAT•CABLE button to control the satellite receiver. You must then use your cable box remote to control the cable box. You may, however, prefer to use the satellite remote for satellite programming, and set your SAT•CABLE button to control your cable box. It's your choice.

2. Point to the choice that matches the way you have your satellite receiver or cable box connected to the TV.

If you used the Connections Foldout to hook up your TV, use the table below to select the DSS/CABLE channel.

 Press MENU • SELECT to complete the Setup routine and return to TV viewing.

### WHAT NOW?

Now that you've finished the interactive setup, you can sit back, relax, and enjoy the TV. Or...

### **Program the Remote**

Since you've gone this far, you can take a few minutes to program the remote to control your VCR, laserdisc player, and other component. To find out how to program both of the remotes, go to the next section.

lf you used Select	With Cable Box Select	No Cable Box
Connection A	Ch3 Antenna A*	Not Connected
Connection B	Ch3 Antenna A*	Not Connected
Connection C	Ch3 Antenna A*	Not Connected
Connection D	Ch3 Antenna A*	Not Connected
Connection E	Ch3 Antenna A*	Not Connected
Connection F	Video I Input	Video I Input
Connection G	Video I Input	Video I Input
Connection H	Video I Input	Video I Input
Connection I	Video I Input	Video I Input
* Or Ch4 Antenna A, depending on how your VCR's 3/4 switch is set.		

#### YOU HAVE A VCR OR

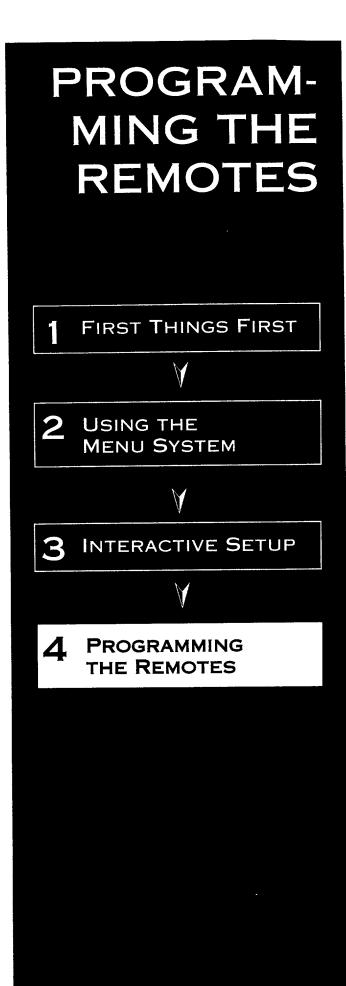
#### OTHER COMPONENT ...

The universal remote can be programmed to control most brands of remote controllable TVs,VCRs, and cable boxes. Most RCA, GE, and ProScan TVs and VCRs are already programmed. Other manufacturers' brands need to be programmed.

The simple remote can be programmed to control most remote controllable VCRs.

#### NOW WATCH SOME TV!

Once you've programmed the remote, you will have completed all four setup sections. Now you can sit back and enjoy the TV. If you want to know more about the different parts of the TV, see the next section, Tour of the TV. Refer to the other sections and appendices as needed.



### PROGRAMMING THE UNIVERSAL REMOTE

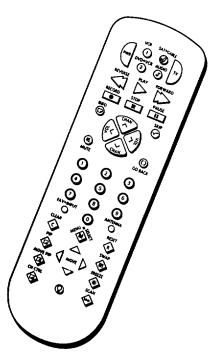
The universal remote can be programmed to control most brands of remote controllable TVs, VCRs, and cable boxes. Most RCA, GE and ProScan TVs and VCRs are already programmed. Other manufacturers' brands need to be programmed.

#### Programming the Universal Remote to Control a VCR

To determine whether the universal remote needs to be programmed, turn the VCR on, point the remote at the VCR, and press the VCR1 button. Then press POWER or CHAN UP or DOWN to see if the VCR responds to the remote commands. If not, the remote needs to be programmed.

Follow these steps to program your universal remote to control your VCR:

- 1. Turn on the VCR to be programmed.
- 2. Look up your VCR brand and code number(s) on the code list on the next page.
- 3. Press and hold the VCR1 button on the remote.
- 4. Enter the two-digit code from the code list.
- Release VCR1 then press POWER to see if the VCR responds to the remote commands. If it doesn't, try pressing VCR1 and POWER to see if the VCR responds.
- 6. Repeat these steps using the next code listed for your brand until the VCR responds to the remote commands.



This remote may not operate all models of the brands that are shown at the right. Use the codes shown or on the sheet packed in with your remote.

To program the DVD•VCR button to control a second VCR, follow these steps but use the DVD•VCR button instead of the VCR1 button.

For instructions on programming the simple remote, see page 28.

### Universal Remote VCR Codes

Aiwa 15
Akai 03,22,23
Audio Dynamics 14,16
Broksonic
Canon 08
Capehart01
Citizen 09
Craig07,12
Curtis Mathes 00,08,15
Daewoo 13
dbx
Dimensia 00
Dynatech 15
Emerson
Fisher
Funai 15
GE 00,07,08,32,37
Goldstar
Harman Kardon
Hitachi 05,15,35,36
Instant Replay
JCL 08
JCPenney
IVC 02, 14, 16, 30
Kenwood 02,14,16,30
Lloyd's
Magnavox
Marantz 02,08,14,16,29,30
Marta 09
MEI 08
Memorex 08,09,12,15
MGA04,27
Minolta05,35
Mitsubishi 04,05,27,35,40
Montgomery Ward 06
MTC07,15
Multitech 07,15,31,32

	NEC 02,14,16,30	)
	Panasonic 08	\$
	Pentax	
	Philco	)
	Philips	)
	Pioneer 05,16,33	}
	ProScan 00	)
	Quartz 02	2
	Quasar 08	3
	RCA 00,05,07,08,28,35,37	7
	Realistic 02,06,08,09,12	••
		3
	Samsung 07,13,22,32,42	2
	Sansui 10	5
	Sanyo02,12	2
	Scott 04,13,4	I
	Sears 02,05,09,12,18,19,35,4	3
	Sharp 06,24,3	9
	Shintom 17,26,3	I
	Sony 17,26,3	8
,	Sylvania 08, 15, 2	9
;	Symphonic02,1	5
}	Tashiko0	9
,	Tatung 3	0
j	Teac 15,3	0
)	Technics0	8
)	Teknika 08,09,15,2	I
)	Toshiba	9
)	Totevision07,0	9
)	Unitech0	7
)	Vector Research 14,1	6
3	Victor I	6
5	Video Concepts 14,1	
7	Videosonic 0	
5	Wards 05,06,07,08,12	
)		
5	Yamaha 02,14,16,3	
5	Zenith    ,	7
2		

# Programming the Universal Remote to Control a Laserdisc Player, DVD Player, or Second VCR

The remote's DVD•VCR button is preprogrammed to control the primary functions of an ProScan, RCA, or GE DVD player. If you would like this button to control a component other than a DVD player, you can program the remote to control a laserdisc player or VCR. For a ProScan, RCA, or GE component, just use the codes shown to the right. (The previous page lists codes for other brands of VCRs). If you ever need to reprogram the remote to control a DVD player, laserdisc player, or second VCR, use the codes shown to the right.

- 1. Turn on the laserdisc player, DVD player, or second VCR.
- 2. Look up your brand and its code number(s) on code list at right.
- 3. Press and hold the DVD•VCR button on the remote.
- 4. Enter the two-digit code from the code list.
- 5. Release the DVD•VCR button and press POWER or another button to see if the laserdisc player or DVD player responds to the remote commands.
- 6. Repeat these steps using the next code listed for your brand, until the laserdisc player, DVD player, or second VCR responds to the remote commands.

# Programming the Universal Remote to Control an Audio Device:

Your remote controls only RCA audio equipment such as a radio, CD player, tape player, turntable, or amplifier. The remote may need to be programmed for your equipment. This remote may not operate all models of the brands that are shown at right. Use the codes shown or on the sheet packed in with your remote.

- 1. Turn on the component to be programmed.
- 2. Look up your brand and its code number(s) on the code list at right.
- 3. Press and hold the AUDIO button.
- 4. Enter the two-digit code from the code list.
- 5. Release the AUDIO button and press POWER or CHAN UP or DOWN to see if the audio device responds to the remote commands.
- 6. Repeat these steps using the next code listed for your brand until the audio device responds to the remote commands.

RCA, ProScan, or GE Codes	
VCR	
Laserdisc player	
DVD player	

### Audio Codes

RCA/ Dimensia	
AM/FM	03
CD	07
Таре	06
Phono	05
Aux	04

### Programming the Remote to Control a ProScan, RCA, or GE Brand DSS® Receiver

The universal remote is preprogrammed to control a ProScan, RCA, or GE brand DSS<sup>®</sup> receiver. Many buttons on your TV remote have the same functions as the buttons on the DSS<sup>®</sup> remote. You may want to experiment with other buttons on the remote to see if they work with your receiver.

# Programming the Universal Remote to Control a Satellite or Cable Box

Refer to the Connection Foldout 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. This remote may not operate all models of the brands that are shown at the right. Use the codes shown or on the sheet packed with your remote.

1. Turn on the cable box.

- 2

- 2. Look up your brand and its code number(s) on code list at right.
- 3. Press and hold the SAT+CABLE button on the remote.
- 4. Enter the two-digit code from the code list.
- 5. Release the SAT•CABLE button and press POWER or CHAN UP or DOWN to see if the cable box responds to the remote commands.
- 6. Repeat these steps using the next code listed for your brand until the cable box responds to the remote commands.

#### Satellite / Cable Box Codes

	•
ABC	
Anvision	07,08
Cablestar	07,08
Eagle	08
Eastern Internation	al 02
General Instrumen	t 04,05,
	24,25,30,36,46
Hamlin	
Hitachi	
Jerrold	
Macom	
Magnavox	
NSC	
Oak	
Oak Sigma	
Panasonic	
Philips 07,	
Pioneer	
Randtek	
RCA	
Regal	
Regency	
Samsung	
Scientific Atlanta	
Signature	
Sprucer	
Starcom	
Sylvania	
Teknika	
Texscan	
Tocom	
Unika	
Viewstar 28	
Warner Amex	
Zenith	14,42

### **PROGRAMMING THE SIMPLE REMOTE**

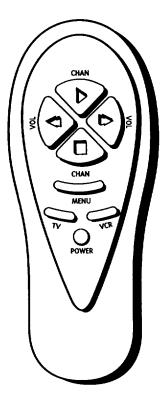
There are two methods to program the simple remote's VCR button: CODE SEARCH and DIRECT ENTRY. The simple remote's TV button is already programmed for your TV.

### To program the VCR button using CODE SEARCH

- 1. Make sure the VCR is turned off *unless it is a GE, PROSCAN, or RCA product.* If the VCR is a GE, PROSCAN or RCA product, turn it on.
- 2. Press the VCR button and the POWER button simultaneously.
- 3. Release the two buttons.
- 4. Press the POWER button repeatedly until the VCR turns ON.
- 5. Press the CHAN DN button to verify the code. If the channel changes on the VCR, the code is valid. Press MENU to complete the search.

#### To program the VCR button using DIRECT ENTRY

- 1. Find the keypress combination for your VCR by locating your brand of VCR in the VCR Codes table on the next page.
- 2. Note the code numbers that follow your brand of VCR.
- 3. Locate the code number in the Key Combination chart on the next page.
- 4. Press and hold the VCR button.
- 5. Enter the four keypresses shown in the Key Combination Chart.



Symbol	Simple Remote Button
•	CHAN UP
v	CHAN DOWN

- > VOL UP
- < VOL DOWN

### Simple Remote VCR Codes

	•
Admiral	
Aiwa	
Akai	03, 17,22,23,63,66
Audio Dynamie	cs 14,16
Bell&Howell	02
Broksonic	0
Candle	07,09,13,44,45,46,52
Cannon	
Capehart	
Citizen	07,09,13,44,45,46,52
Colortyme	
Craig	07,12
Curtis Mathes	00,07,08,
	14,15,44,46,53,64,67
Daewoo	13,45,52
dbx	
Dimensia	00
Dynatech	
Electrohome .	
Emerson	
	20,23,27,34,41,42,47,
*******	49,57,62,65,67,68,70
Fisher	02,12,18,
******	19,43,48,58
Funai	
GE	00,07,08,32,37,53
Goldstar	
Harman Kardo	on 14
Hitachi	05,15,35,36
Instant Replay	
	08
	14,16,30,35,51,53
	02,14,16,30,46
Kenwood	02,14,16,30,44,46
Lloyd's	
Logik	
Marta	09
MEI	08
Memorex	
MGA	04,27
Mitsubishi	04,05,27,35,40

VCR Codes	
Montgomery Ward .	
MTC	
Multitech	
NEC 02,14,16,30	
Panasonic	
Pentax	
Pentex Research + .	
Philco	
Philips	
Pioneer 05,16,33	
Portland	
ProScan	
Quartz	
Quasar	
RCA 00,05,07,08	
Radio Shack/Realisti	
Samsung	
Sansui	
Sanyo	
Scott	
Sears	
	19,35,43,48
Sharp	. 06,24,27,39,45
Shintom	17,26,31,55
Signature	
Sony	17,26,38
Sylvania	. 08,15,29,53,56
Symphonic	
Tandy	
Tashiko	
Tatung	
Teac	
Teknika	08.09.15.21
Toshiba	
Totevision	
TMK	
Unitech	
Vector Research	
Victor	
Video Concepts	
Video Concepts Videosonic	
Wards	
vvards 12,1	
Yamaha	02,14,18,30,46

Key Com	binations
00 ^ ^ ^ ^	51 ^ < ^ <
01 ^ ^ >	52 ^ < > ^
02 ^ ^ ^ v	53 ^ < > >
03 ^ ^ ^ <	54 ^ < > v
04 ^ ^ > ^	55 ^ < > <
05 ^ ^ > >	56 ^ < v ^
06 ^ ^ > v	57 ^ < v >
07 ^ ^ > <	58 ^ < v v
08 ^ ^ v ^	59 ^ < v <
09 ^ ^ v >	60 ^ < < ^
10 ^ v v	61 ^ < < >
^ ^ y <	62 ^ < < v
12 ^ ^ < ^	63 ^ < < <
3 ^ ^ < >	64 > ^ ^ ^
4 ^^ <v< th=""><th>65 &gt; ^ ^ &gt;</th></v<>	65 > ^ ^ >
15 ^ ^ < <	66 > ^ ^ v
16 ^ > ^ ^	67 > ^ ^ <
17 ^> ^>	68 > ^ > ^
18 ^>^v	69 > ^ > >
19 ^ > ^ <	70 > ^ > v
20 ^>> ^	7  > ^ > <
21 ^>>>	72 > ^ v ^
22 ^>>v	73 > ^ v >
23 ^>><	74 > ^ v v
24 ^>v^	75 > ^ v <
25 ^>v>	76 > ^ < ^
26 ^ > v v	77 > ^ < >
27 ^ > v <	78 > ^ < v
28 ^> < ^	79 > ^ < <
29 ^> <>	80 > > ^ ^
30 ^ > < v	81 >> ^ >
31 ^> < <	82 > > ^ v
32 ^ v ^ ^	83 >> ^ <
33 ^ v ^ >	84 >>>^
34 ^ v ^ v	85 >>>>
35 ^ y ^ <	86 >>>v
36 ^ v > ^	87 >>><
37 ^ v > >	88 > > v ^ 89 > > v >
38 ^ v > v	89 > > v > 90 > > v v
39 ^ v > <	90 > > v v 91 > > v <
40 ^ v v ^	91 >>v< . 97 >><^
41 ^ v v >	92 >><^ 93 >><>
42 ^ v v v 43 ^ v v <	93 >><> 94 >> <v< th=""></v<>
43 ^ v v < 44 ^ v < ^	94 >> <v 95 &gt;&gt;&lt;&lt;</v 
$44 ^{v} < ^{A}$	95 >><< 96 >v^^
$45 ^{v} < >$	96 > v ^ ^ 97 > v ^ >
46 ^ v < v 47 ^ v < <	97 > v ^ > 98 > v ^ v
47 ^ v < < 48 ^ < ^ ^	98 > v ^ v 99 > v ^ <
48 ^ < ^ ^ 49 ^ < ^ >	
49 ^ < ^ > 50 ^ < ^ v	100 > v > ^
V V V VC	

#### USING THE UNIVERSAL REMOTE TO CONTROL A DEVICE

Once the remote has been programmed with the correct codes, you are ready to use it to control your devices.

To operate the device:

- 1. Press the device button (TV, VCR1, DVD•VCR, SAT•CABLE, or AUDIO) to set the remote to control the device.
- 2. Press OFF/ON to turn the device off or on.
- 3. Use the remote buttons that apply to that device.

Tip for the Simple Remote:

To change channels on the VCR, press and hold TV and VCR while pressing the CHAN buttons.

For PROSCAN, RCA, and GE devices, pressing the device button will usually turn the device on; use the POWER button to turn the device off.

# TOUR OF THE TV

### A PICTURE BOOK TOUR

This section gives a pictorial overview of the television. The parts detailed are:

- The Remote Control
- The Simple Remote
- The Channel Marker
- The Back Panel
- The Front Panel

31

# TOUR OF THE TV

### **REMOTE BUTTONS**

**POWER** When in TV mode, turns off the TV. In VCR mode, and if programmed, turns on and off some VCRs.

**VCR1** If programmed, turns on VCR and puts the remote in VCR mode. Also turns on the TV.

**SAT**•**CABLE** Turns on the satellite receiver or, if programmed, some cable boxes. Puts the remote in SAT•CABLE mode. Also turns on the TV.

**DVD**•VCR If programmed may turn on a DVD player, second VCR, or laserdisc player. Puts the remote in DVD•VCR mode. Also turns on the TV.

**TV** Turns on the TV and puts the remote in TV mode. Also displays channel information.

**AUDIO** If programmed, turns on audio component and puts the remote in audio mode.

**REW, PLAY, FF, REC, STOP, PAUSE** If programmed, provide transport control for some remote-controllable VCRs, laserdisc players, tape decks, and CD players.

VOL < or VOL > Decreases or increases the TV's volume.

**CHAN**  $\wedge$  or **CHAN**  $\vee$  Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

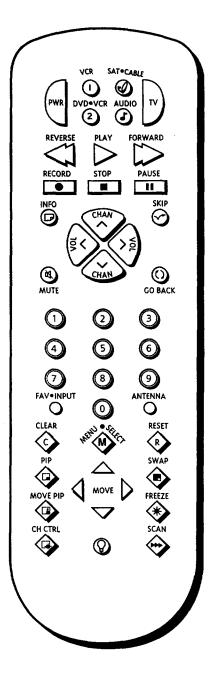
**INFO** Brings up channel information. Press repeatedly to see detailed program information, if available.

**SKIP** Press once before changing channels and the TV will wait 30 seconds before returning you to the original channel. Press repeatedly to add more time.

MUTE Turns off the TV's sound. Press again to restore the sound.

GO BACK Returns you to the previous channel.

(0-9) Number Buttons Enters channel numbers and time settings directly though the remote control. To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the first digit, then add the second two. Example: to tune to channel 123, press and hold 1, press 2, then press 3.



For more, see *Programming the Remote*, p. 23.

# TOUR OF THE TV

**FAV**•**INPUT** INPUT is used to toggle through the available input sources (VID1, VID2, FRNT, etc.). FAV works in conjunction with your DSS<sup>®</sup> system and calls up a list of your most commonly watched channels.

**ANTENNA** When in TV mode, changes the antenna input. Functions as TV/VCR button in VCR mode and TV/DSS button in DSS•Cable Mode.

**CLEAR** Removes any menu or display from the screen and returns you to TV viewing.

**MENU**•**SELECT** Brings up the Main Menu. When in the menu system, selects highlighted items or returns you to the previous menu. When in VCR mode, it functions as a Program button. Also operates the menu in your DSS<sup>®</sup> system.

**RESET** Returns all picture quality controls to their original settings.

**MOVE (Arrows)** Used to point to different items in the menu system. Also used to adjust the menu controls. Also move the PIP window when no menus are on the screen.

**PIP** Brings up the small picture-in-picture window. Press again to remove the PIP window.

MOVE PIP Moves the PIP window to the four corners of the screen.

CH CTRL Selects the picture window, (that is, the main or PIP window) that is affected by the CHAN ^ and CHAN v buttons.

SWAP Swaps the main picture with the PIP window.

FREEZE Freezes the video in the PIP window.

**SCAN** Briefly displays each channel from the current channel list. Press again to stop scan.

**THE LIGHTBULB** (O) Illuminates the remote buttons. After a few seconds the light automatically shuts itself off.

#### SIMPLE REMOTE BUTTONS

**VOL** < Decreases the volume. When in the menu system, VOL < is used to point to items and adjust menu controls. In VCR mode, it functions as a REW or reverse search button.

**VOL** > Increases the volume. When in the menu system, VOL > is used to point to items and adjust menu controls. In VCR mode, it functions as a FF or fast search button.

CHAN ^ Scans up through the channel list. In the menu system, it points to items and adjusts menu controls. In VCR mode, it functions as a PLAY button.

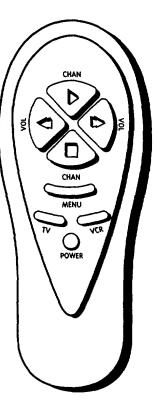
**CHAN v** Scans down through the current channel list. In the menu system, it points to items and adjusts menu controls. In VCR mode, it functions as a STOP button.

**MENU** Brings up the Main Menu. When in the menu system, it selects highlighted items. Also returns you to the previous menu. When in VCR mode, it functions as a PAUSE button.

**TV** Turns on the TV and puts the remote in TV mode. Also displays channel information.

**VCR** If programmed, turns on the VCR and puts remote in VCR mode. Also turns on the TV.

POWER Turns off the TV. Also turns some VCRs off and on.



For more, see Programming the Simple Remote, p. 28.

To change channels on the VCR, press and hold TV and VCR while pressing the CHAN buttons.

#### **CHANNEL MARKER**

There are several indicators that come up when you change channels, press the INFO button, or press the TV button. (The channel buttons, INFO button, and TV button each bring up their own specific indicators when pressed.) This display is called the Channel Marker.

**12:01** Displays the current time.

Mute Displayed when you mute the audio.

**CC** Displayed when Closed Captioning is available on the current channel.

**SAP** Displayed when the current channel is broadcasting SAP (Second Audio Program) information.

PIP Chan Displays the current PIP channel.

PIP Channel Indicator Displays PIP channel.

Stereo Displayed when the current channel is broadcasting in Stereo.

VCR Displays the label assigned to the current channel.

VID1 Displays the current channel or input channel.

**Remote batteries are low** Displayed when the batteries in the remote need to be replaced.

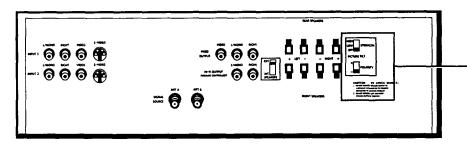
Sleep Displayed when the Sleep Timer has been set.

**00:00** Displayed to count down time left on the commercial skip (SKIP) timer.

2:0  Mute				
Ren	note b	atteri	es are	low
Slee	р			00:00

The channel marker shown above is just an example, of course.

#### BACK PANEL



**Polarity Switch** feature applies to 31" models or greater only. (see *Polarity Switch* pg. 37)

**INPUT 1** Lets you connect a video component such as a VCR, satellite receiver, or laserdisc player.

L/MONO Provides left audio connection. Or, if you are connecting a mono component, use the L/MONO input. The left audio connector is usually white.

**RIGHT** Provides right audio connection. The right audio connector is usually red.

**VIDEO** Provides video connection. The video connector is usually yellow.

**S-VIDEO** Lets you connect a component with S-Video capability, such as a satellite receiver or S-VIDEO VCR. When using S-Video, make sure to connect the three audio/video cables as well as the S-Video connector.

**INPUT 2** Provides connection to a second video component such as a VCR or laserdisc player.

L/MONO Provides left audio connection. Or, if you are connecting a mono component, use the L/MONO input. The left audio connector is usually white.

**RIGHT** Provides right audio connection. The right audio connector is usually red.

**VIDEO** Provides video connection. The video connector is usually yellow.

**S-VIDEO** Lets you connect a component with S-Video capability, such as a satellite receiver or S-VIDEO VCR. When using S-Video, make sure to connect the three audio/video cables as well as the S-Video connector.

The ANT B input can be used for video games or home computers, and you can switch between the two inputs using the ANTENNA button on the remote.

If you are recording from INPUT I and you are using S-Video, remember to connect the regular INPUT I VIDEO cable as well.

**SIGNAL SOURCE** Provides connection to a home antenna or cable TV system.

**FIXED OUTPUT** Provides fixed-level audio and video output from the TV. These output signals are ideal for connecting to an A/V receiver or amplifier that has its own remote control. The FIXED OUTPUT jacks are also suitable or for recording from the TV with a VCR, camcorder, or tape deck.

**HI-FI OUTPUT** Provides volume-controlled stereo audio output, meaning the volume changes as you change volume on the TV. The HI-FI OUTPUT jacks are ideal for connecting the TV to an amplifier that does not have its own volume control or remote.

**SPEAKER SWITCH** Lets you turn off the TV's internal (built-in) speakers and play the audio through external speakers connected to the TV. Set SPEAKER SWITCH to EXTERNAL to play audio through external speakers. Set the switch to INTERNAL to play audio through the TV's internal (built-in) speakers

**REAR SPEAKERS** The REAR SPEAKERS terminals let you connect rear speakers to the TV.

**FRONT SPEAKERS** The FRONT SPEAKERS terminals let you connect front external speakers to the TV.

**POLARITY SWITCH (31" screen size or above only)** Your TV has an extra-large (31" or above) color picture, which makes it vulnerable to the effects of the Earth's magnetic field. You may need to reset the POLARITY switch and STRENGTH switches if you reposition the TV or move it to a different room.

If you notice the picture tilting slightly, follow these steps to correct the tilt:

- 1. Make sure the STRENGTH switch is set to OFF.
- 2. Move the STRENGTH switch to LOW. If the picture gets better, but not quite perfect, move the switch to HIGH.
- 3. If the picture gets worse, change the position of the POLARITY switch. If the picture improves, but is not quite perfect, move the STRENGTH switch to HIGH.

Remember to set the speaker switch back to INTERNAL when you are not using the external speakers.

To connect a subwoofer to the TV, use the left (L/MONO) HI-FI-OUT-PUT jack.

#### FRONT PANEL

**VOL** < Decreases the volume. When in the menu system, VOL < is used to point left to items and adjust menu controls.

**VOL** > Increases the volume. When in the menu system, VOL > is used to point right to items and adjust menu controls.

**CHAN** ^ Scans up through the channel list. In the menu system, it points up to items and adjusts menu controls.

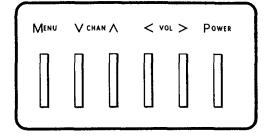
**CHAN v** Scans down through the current channel list. In the menu system, it points down to items and adjusts menu controls.

**MENU** Brings up the Main Menu. When in the menu system, it selects highlighted items. Also returns you to the previous menu.

**POWER** Turns the TV on and off.

(Headphone) Plug stereo headphones into this jack.

A•V (AV Jack) Use the AV adapter included with your TV accessories to connect a camcorder or other device to the front of the TV. The yellow connector is for video; the white for audio.







The front panel above shows a typical button layout. The exact look of the buttons may be different from those on the front of your TV. (In other words, your mileage may vary.)

If you turn Parental Control on, the front panel no longer provides access to the menus. For more information, see *Parental Control*, page 44.

#### A SHORT GUIDE TO THE MENU SYSTEM

This section provides a brief explanation of all the menu commands. The commands are organized in the chapter by their location in the Main Menu.

- Audio Contains the controls that let you adjust the way the TV sounds.
- **Picture Quality** Contains the controls that let you adjust the picture.
- Screen Contains the controls that let you adjust the Closed-Caption mode and display.
- **Time** Contains the controls that let you set the time and schedule the TV to turn off and on at specific times.
- **Channel** Contains all the commands used to control your channels, including custom-building your channel list, setting parental controls, and setting up your TV to control the components connected to the TV.

#### AUDIO MENU

Mute Press MENU to turn the TV audio off or on.

**Tone Controls** Displays the slider controls for adjusting the TV's Treble, Bass, Balance, and Volume.

Audio Processor Displays a choice list of the available audio modes, which control the way the sound comes through your speakers.

**Mono** Plays the sound in mono only. Use this setting when receiving broadcasts where the distance makes the signal weak.

**Stereo** Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The TV displays the word STEREO when you tune to a program that is broadcast in stereo.

**Expanded Stereo** Enhances the stereo signal to give the impression of greater depth and stereo separation.

**SAP (Second Audio Program)** Plays the program's audio in a second language, if one is available. The TV displays the word SAP when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono.

**Speakers** Displays a choice list that lets you turn the TV's internal or external speakers on or off.

TV Main Menu I Audio				

You may notice that fewer Audio Processor options are available when you're tuned to a video input than when you're watching broadcast channels.

#### PICTURE QUALITY MENU

**Picture Controls** Displays the five slider controls for adjusting the way the picture looks.

**Contrast** Adjusts the difference between the light and dark areas of the picture.

Color Adjusts the richness of the color.

Tint Adjusts the balance between the red and green levels.

Black Level Adjusts the brightness of the picture.

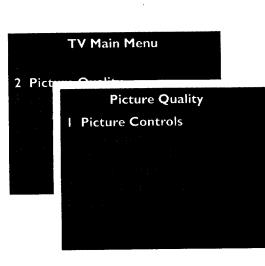
Sharpness Adjusts the crispness of edges in the picture.

**Auto Color** Displays a choice list that lets you turn on the feature that automatically corrects the color of the picture. (This is especially useful for tracking realistic flesh tone colors as you switch from channel to channel.) Select *Off* if you prefer to adjust the picture with the Picture Controls.

**Video Noise Filter** Displays a choice list that lets you turn on the feature that automatically filters out noise, or "snow," from the picture.

**Color Warmth** Displays a choice list that lets you set one of three automatic color adjustments: Cool for a more blue palette of picture colors; Normal; and Warm for a more red palette of picture colors.

**Reset Picture Controls** Displays a choice list that lets you reset the picture controls to their original settings.



Turn the Auto Color feature OFF if you prefer to adjust the picture with the picture controls.

#### SCREEN MENU

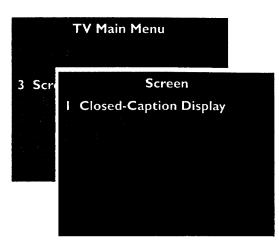
**Closed Caption Display** Displays a choice list that lets you choose the way closed captioning information is shown on the screen.

Off No captioning information displayed.

On Always Captioning information shown always, when available.

**On When Sound is Muted** Displays captioning information, when available, whenever the TV's sound is muted. The captioning information is not displayed when the sound is on.

**Closed Caption Mode** Displays a choice list that lets you choose which captioning mode is used for displaying captioning information.



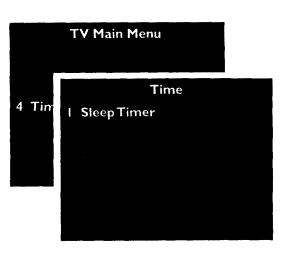
Captioning information is not available on all channels at all times. For more on using closed captioning, see Advanced Features, p. 52.

#### TIME MENU

**Sleep Timer** Displays a control panel that lets you select the amount of time you want to give the TV before it shuts itself off.

**Schedule** Displays a control panel that lets you set up a schedule for turning the TV on and off automatically. **Make sure to turn the schedule On.** The on-screen directions guide you through the steps needed to set the schedule.

**Set Time** Displays a control panel that lets you enter the current time. The on-screen directions guide you through the steps needed to set the schedule.



You have to set the current time before using the Schedule function.

**Tip for Using Schedule:** 

To turn the TV into an alarm clock, press RESET to blank both the Start and Stop Time fields. Then set the Start Time to the time you would like the TV to turn on. The TV will come on in the morning, and stay on until you turn it off. (I try to stay away from early morning news programs, because the newscasters' voices seem to lull me back to sleep.)

#### CHANNEL MENU

**Parental Control** Displays a choice list that lets you adjust the Parental Control feature.

**On** The front panel CHAN buttons will tune only to channels that you have marked as "Parent Approved" in the Lists and Labels control panel (see below).

**Important:** When Parental Control is on, the TV's front panel no longer provides access to the menus. Parents may prefer to hide the remote and let children use the front panel to change channels.

**Off** The TV shows all channels, whether they are marked as "Parent Approved" or not.

**Signal Type** Displays a choice list that lets you select the current antenna type.

**UHF/VHF Antenna** Choose this if you are currently using an offair antenna for TV signals.

**Cable TV** Choose this if you are currently using cable or a cable box for TV signals.

**Signal Source** Displays a choice list that lets you choose whether you are currently using a signal plugged into the Antenna A or Antenna B jacks on the back of the TV. Usually, the antenna or cable is connected to Antenna A. Pressing the ANTENNA button on the remote is a quick way to change the signal source from Antenna A to Antenna B.

**Lists and Labels** Displays a control panel that lets you custom-build your Normal channel list, choose a four-character label for each channel, and decide whether each channel is "parent-approved." Follow the on-screen directions to enter your channels and other information.

**Chan #** Use the up and down arrows to scroll up and down through the channel scan list. If you are using the big remote, you can enter the channel number directly using the number buttons.

**Labels** Use the up and down arrows to enter a four-character label for each channel. Hold the button down to scroll quickly through the characters (there are a bunch of them). Press RESET to clear a label. **The TV can store 67 labels in memory.** 

#### TV Main Menu

# Channel 5 Ch

Connect your video game to Antenna B. Then, when you want to play video games, press ANTENNA on the remote to change the Signal Source to Antenna B.

You may prefer to include only a dozen or so of your favorite channels in the Normal list, and use the number buttons on the big remote to access the rest of the channels as desired.

**Normal List** Only the channels included in the Normal list are available when you scan up and down using the CHAN buttons. Use the up and down arrows to indicate whether the channel number indicated is included (YES) or is not included (NO) in the Normal channel list.

**Parent Approved** Use the up and down arrows to choose whether the channel indicated should be shown when the Parental Control feature is turned on. Select YES to indicate that the channel can be shown at any time, regardless of whether Parental Control is turned on. Select NO to indicate that the front panel cannot tune to that channel when Parental Control is turned on. **Important:** You must turn the Parental Control feature ON in the Parental Control control panel (see above).

**Auto Channel Search** Displays a control panel that lets you tell the TV to search automatically for all the channels available through the antenna input(s). When the TV finds an active channel, it places it in the channel list; inactive channels (weak stations or channels with no signal at all) will be removed from the channel list.

**Auto Tuning** Displays a choice list that lets you set up the TV to automatically tune to the correct input channel when you press VCR1, DVD•VCR, or SAT•CABLE.

**Set VCR 1 Channel** Displays a choice list that lets you select the channel that the TV tunes to when you press the VCR1 button. The choices are:

**Not Connected** Choose this if you do not have a VCR connected to an antenna or Video input on the back of the TV, or if you don't want the TV to tune to a channel when the VCR1 button is pressed.

**Channel 3 Antenna A** Choose this if your VCR is connected to the Antenna A jack on the back of the TV, and you want the TV to tune to channel 3 when you press the VCR1 button. Reminder: Make sure the component's Ch 3/4 switch is set to channel 3.

**Channel 4 Antenna A** Choose this if your VCR is connected to the Antenna A jack on the back of the TV, and you want the TV to tune to channel 4 when you press the VCR1 button. Reminder: Make sure the component's Ch 3/4 switch is set to channel 4.

Auto Tuning is part of the interactive setup routine. For more, see *Interactive* Setup, p. 15.

**Channel 3 Antenna B** Choose this if your VCR is connected to the Antenna B jack on the back of the TV, and you want the TV to tune to channel 3 when you press the VCR1 button. Reminder: Make sure the component's Ch 3/4 switch is set to channel 3.

**Channel 4 Antenna B** Choose this if your VCR is connected to the Antenna B jack on the back of the TV, and you want the TV to tune to channel 4 when you press the VCR1 button. Reminder: Make sure the component's Ch 3/4 switch is set to channel 4.

**Video 1 Input** Choose this if your VCR is connected to the Video 1 jacks on the back of the TV and you want the TV to tune to Video I input when you press the VCR1 button.

**Video 2 Input** Choose this if your VCR is connected to the Video 2 jacks on the back of the TV and you want the TV to tune to Video 2 input when you press the VCR1 button.

**Set DVD/VCR 2/LD Channel** Displays a choice list that lets you select the channel that the TV tunes to when you press the DVD•VCR button.

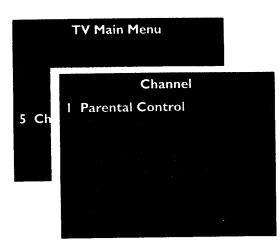
The choices are the same as those listed under Set VCR 1 Channel, above, except that the component is the second VCR or laserdisc player, and the remote button being programmed is DVD•VCR. For example:

**Video 2 Input** Choose this if your second VCR or laserdisc player is connected to the Video 2 jacks on the back of the TV and you want the TV to tune to Video 2 input when you press the DVD•VCR button. This is a typical setting for a second VCR or laserdisc player.

**Set DSS/Cable Channel** Displays a choice list that lets you select the channel that the TV tunes to when you press the SAT•CABLE button. Usually, SAT•CABLE can control either a satellite receiver connected to the Video 1 input jacks, or a cable box connected to the Antenna A jack.

The choices are the same as those listed under Set VCR 1 Channel, above, except that the component is either a satellite receiver or a cable box, and the button being programmed is SAT•CABLE. Here is an example for each:

**Video 1 Input** Choose this if your satellite receiver is connected to the Video 1 jacks on the back of the TV and you want the TV to tune to Video 1 input when you press the SAT•CABLE button. (This is the typical setting for a satellite receiver.)

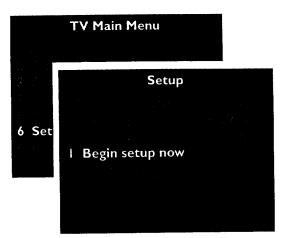


46

**Ch 3 Antenna A** Choose this if your cable box is connected to the Antenna A jack on the back of the TV and you want the TV to tune to channel 3 when you press the SAT•CABLE button. (This is a typical setting for a cable box.)

#### SETUP

The Setup routine is detailed in Interactive Setup, pages 15-22.



This sections details how to use four of the TV's important features:

- PIP (Picture-in-Picture) Operation
- Displaying On-Screen Program Details
- Using Closed Captioning
- Choosing an Audio Processor

For more about the different menus and control panels in the menu system, see *Quick Reference*, p. <u>39</u>.

#### PIP (PICTURE-IN-PICTURE) OPERATION

The PIP feature (picture-in-picture) lets you display a second, smaller picture on top of the main picture.

Main Picture
PIP

There are six remote buttons that control the way the PIP window works:

**PIP** Brings up the PIP window. Press PIP again to remove the window. **MOVE PIP** Lets you move the PIP window to the four corners of the screen. (You can also use the MOVE arrows to position the PIP window.)

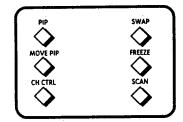
**FREEZE** Takes a snapshot of the video in the PIP window. To unfreeze the video, change channels in the PIP window or press SWAP.

**SWAP** Switches, or "swaps," the video from the PIP window with the main picture.

**CH CTRL** (Channel Control) Pressing PIP automatically places channel control in the PIP window. CH CTRL lets you transfer channel control back to the main picture.

Press CH CTRL again to return the channel control to the main picture.

**SCAN** Pressing SCAN causes the TV to automatically scan through your channel list. If channel control (see above) is on the main picture, the main picture will scan through the channels. If channel control is on the PIP window, the PIP picture will scan through the channels. Each channel is displayed for four seconds before the TV automatically tunes to the next channel in the list.



If you press FREEZE before the PIP window is displayed, the current channel's video is frozen in the PIP window, allowing you to change channels on the main picture while keeping the snapshot of the original channel in the PIP window.

A typical use of SWAP is to scan through channels in the PIP window, and when you find a channel you like, press SWAP to display that channel in the main picture, sending the current channel to the PIP window.

#### TWO TIPS FOR USING PIP BUTTONS

### Automatic Channel Surfing in the Main Picture

You can auto-surf through the channels between commercials using the SKIP and SCAN buttons.

- 1. Press SKIP to set the commercial skip timer.
- 2. Then press SCAN to send the current channel to the PIP window. The main picture auto-surfs through the channel list. When the SKIP feature times out, the original channel will return automatically to the main picture.

### Automatic Channel Surfing in the PIP Window

You can use the PIP window to auto-surf through channels as well.

- 1. Press PIP to bring up the PIP window.
- 2. Press SCAN. The TV begins displaying each channel in the PIP window. If you see a channel that interests you, press SWAP.

#### **CLOSED CAPTIONING**

Many programs are encoded with closed captioning information, which lets you display the audio portion of a program as text on the TV screen. You can tell the TV to display closed captioning: a) never, b) whenever it is available, or c) whenever the program is muted.

#### TO DISPLAY CLOSED CAPTIONING

- 1. Press MENU•SELECT to bring up the Main Menu.
- 2. Point to Screen and press MENU•SELECT. The Screen Menu comes up with Closed Caption Display highlighted.
- 3. Press MENU•SELECT to select Closed Caption Display.



Off No closed captioning information will be displayed.

**On always** Closed captioning will be displayed whenever it is available.

**On when muted** Closed captioning will be displayed only when you have muted the sound.

Point to your choice and press MENU • SELECT to select it and return to the Screen menu.

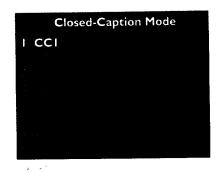
Closed captioning is not available on all channels at all times. Only specific programs encoded with closed captioning information are applicable. When a program is closed captioned, the letters CC are displayed in the channel marker.

#### CLOSED CAPTIONING MODES

The TV offers eight closed-captioned modes, including four text modes.

#### To Set the Closed Captioning Mode:

- 1. Select Screen from the Main Menu
- 2. Point to Closed-caption mode and press MENU•SELECT. This choice list comes up:



 Point to your choice and press MENU•SELECT to select it and return to the Screen menu.

#### TURNING OFF CLOSED CAPTIONING

- 1. Select Screen from the Main Menu.
- 2. Press MENU SELECT to select Closed Captioned Display
- 3. Point to Off and press MENU•SELECT. The closed captioning is turned off and you are returned to the Screen menu.

If you are unsure of the differences among the modes, you may prefer to leave the closed caption mode set to CCI, which displays complete text of the program in the primary language in your area.

#### **ON-SCREEN PROGRAM DETAILS**

Program providers have the option of sending information through the airwaves along with their programs. If this information is available, the TV can display it when you press INFO. To display the on-screen program details:

- 1. Press INFO once to bring up the channel marker.
- 2. Press INFO again to bring up the program title and the program's length and elapsed time.
- 3. Press INFO again for other program details such as the story line and whether Closed-Captioning is available.
- 4. Press INFO again to clear the screen.

Whether all (or any) of the program details are displayed depends on whether the program provider has sent the information along with the program.

#### **CHOOSING AN AUDIO PROCESSOR**

Changing the audio processor changes the way your TV sounds. You can adjust your audio processor by using the Audio Menu.

#### Choosing an audio processor from the Audio Menu

- 1. Press MENU•SELECT to bring up the Main Menu.
- 2. Press MENU•SELECT again to select the Audio menu.
- 3. Point to *Audio Processor* and press MENU•SELECT. The Audio Processor choice list comes up, with the current mode highlighted.
- 4. Point to an audio processor mode and press MENU•SELECT to select it and return to the Audio menu. The options are:

**Mono** plays the sound in mono only. This is useful for broadcasts with weak or distant signals.

**Stereo** splits the incoming stereo audio signal into left and right channels.

**Expanded Stereo** enhances the stereo signal to give the impression of greater depth and stereo separation.

**SAP** Some program providers broadcast a program in a second sound channel, called SAP (Second Audio Program). Setting your audio processor to SAP tells the TV to play the program's audio in this second language, if one is available. SAP sound is mono.

#### THINGS TO KNOW BEFORE CONNECTING COMPONENTS

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.

#### POSITION CABLES CORRECTLY TO AVOID AUDIO HUM OR INTERFERENCE

- 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.

#### CONNECT AUDIO/VIDEO CABLES FOR BEST RESULTS

Required for picture-in-picture feature

# APPENDIX A: USING THE TV CONNECTIONS

This section assumes that you have already accomplished two tasks:

- a) Used the Interactive Setup (p.15)
- b) Programmed the remote (p. 23)

### APPENDIX A: USING CONNECTION A

#### TV AND MONO VCR

This information applies to Connection A in the Connections Foldout.

#### **Connection A provides:**

- Stereo sound from broadcast programs
- Mono sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel

#### To use this connection you must have:

- (2) audio/video cables
- (2) coaxial cables

#### To connect:

- 1. Connect cables as shown in Connection A.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

#### **USING CONNECTION A**

#### To watch TV programs:

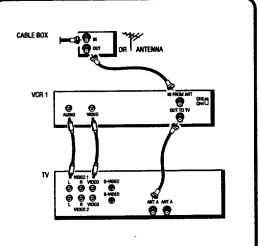
- 1. Turn VCR off.
- 2. Press TV and tune to a channel.

#### To record one program and watch another:

- 1. Press VCR1 and tune to a channel.
- 2. Begin recording.
- 3. Make sure the TV/VCR switch on the VCR is set to TV.
- 4. Press TV and tune to a channel.

#### To play a tape on the VCR:

- 1. Press VCR1.
- 2. Press PLAY.



See Connections Foldout, Connection A

### APPENDIX A: USING CONNECTION B

### TV AND STEREO VCR

This information applies to Connection B in the Connections Foldout.

#### **Connection B provides:**

- Stereo sound from broadcast programs
- Stereo sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel

#### To use this connection you must have:

- (2) coaxial cables
- (3) audio/video cables
- (1) S-Video cable (optional)

#### To connect:

- 1. Connect cables as shown in Connection B.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

#### USING CONNECTION B

#### To watch TV programs:

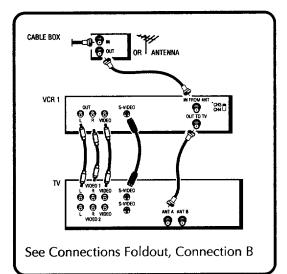
- 1. Turn VCR off.
- 2. Press TV and tune to a channel.

#### To record one program and watch another:

- 1. Press VCR1 and tune to a channel.
- 2. Begin recording.
- 3. Make sure the TV/VCR switch on the VCR is set to TV.
- 4. Press TV and tune to a channel.

#### To play a tape on the VCR:

- 1. Press VCR1.
- 2. Press PLAY.



### APPENDIX A: USING CONNECTION C

#### TV, VCR AND LASERDISC PLAYER

This information applies to Connection C in the Connections Foldout.

#### **Connection C provides:**

- Stereo sound from broadcast programs
- Stereo sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel

#### To use this connection you must have:

- (2) coaxial cables
- (6) audio/video cables
- (2) S-Video cables (optional)

#### To connect:

- 1. Connect cables as shown in Connection C.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

#### **USING CONNECTION C**

#### To watch TV programs:

- 1. Turn VCR off.
- 2. Press TV and tune to a channel.

#### To record one program and watch another:

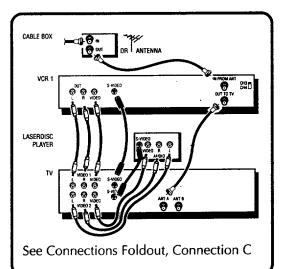
- 1. Press VCR1 and tune to a channel.
- 2. Begin recording.
- 3. Make sure the TV/VCR switch on the VCR is set to TV.
- 4. Press TV and tune to a channel.

#### To play a tape on the VCR:

- 1. Press VCR1.
- 2. Press PLAY.

#### To play a laserdisc:

- 1. Press VCR2.
- 2. Press PLAY.



### APPENDIX A: USING CONNECTION D

#### TV AND (2) VCRs

This information applies to Connection D in the Connections Foldout.

#### **Connection D provides:**

- Stereo sound from broadcast programs
- Stereo sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel
- Recording from one VCR to the other

#### To use this connection you must have:

- (3) coaxial cables
- (6) audio/video cables
- (1) S-Video cable (optional)

#### To connect:

- 1. Connect cables as shown in Connection D.
- 2. Return to *First Things First,* then follow the steps in the Interactive Setup.

#### **USING CONNECTION D**

#### To watch TV programs:

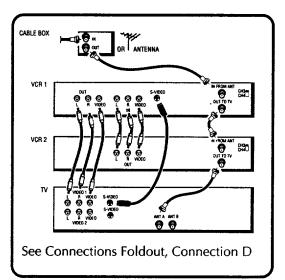
- 1. Turn VCR off.
- 2. Press TV and tune to a channel.

#### To record one program and watch another:

- 1. Turn VCR2 off.
- 2. Press VCR1 and tune to a channel.
- 3. Begin recording.
- 4. Make sure the TV/VCR switch on the VCR1 is set to TV.
- 5.. Press TV and tune to a channel.

#### To play a tape on the VCR:

- 1. Press VCR1.
- 2. Press PLAY.



### APPENDIX A: USING CONNECTION D

#### To record from one tape to another (tape dubbing):

- 1. Insert original tape into VCR2.
- 2. Insert blank tape into VCR1.
- 3. Press VCR1.
- 3. Set VCR to line input (for more, see your VCR User Manual).
- 4. Press RECORD to begin recording.
- 5. Press DVD•VCR, then press PLAY.
- 6. If you want to watch a different channel, set both the TV/VCR switch on both VCRs to TV; press TV; then tune to a channel.

Caution: The unauthorized recording of copyrighted material may infringe upon the rights of others.

### APPENDIX A: USING CONNECTION E

#### TV AND LASERDISC PLAYER

This information applies to Connection E in the Connections Foldout.

#### **Connection E provides:**

- Stereo sound from broadcast programs
- Picture in Picture (PIP)

#### To use this connection you must have:

- (1) coaxial cable
- (3) audio/video cables
- (1) S-Video cable (optional)

#### To connect:

- 1. Connect cables as shown in Connection E.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

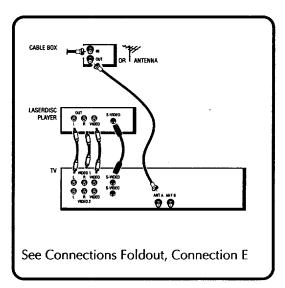
#### **USING CONNECTION E**

#### To watch TV programs:

1. Press TV and tune to a channel.

#### To play a laserdisc:

- 1. Press DVD•VCR.
- 2. Press PLAY.



### APPENDIX A: USING CONNECTION F

#### TV AND SATELLITE RECEIVER

This information applies to Connection F in the Connections Foldout.

#### **Connection F provides:**

- Stereo sound from broadcast programs
- Stereo sound from the satellite receiver
- Picture in Picture (PIP)

#### To use this connection you must have:

- (3) coaxial cables
- (3) audio/video cables
- (1) S-Video cable (optional)
- Stereo sound from satellite programming

#### To connect:

- 1. Connect cables as shown in Connection F.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

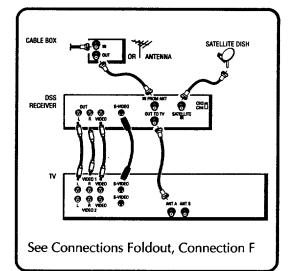
#### **USING CONNECTION F**

#### To watch TV programs:

- 1. Turn satellite receiver off.
- 2. Press TV and tune to a channel.

#### To watch satellite programming:

1. Press SAT•CABLE and tune to a channel.



### APPENDIX A: USING CONNECTION G

#### TV, VCR, AND SATELLITE RECEIVER

This information applies to Connection G in the Connections Foldout.

#### **Connection G provides:**

- Sereo sound from broadcast programs
- Stereo sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel

#### To use this connection you must have:

- (4) coaxial cables
- (6) audio/video cables
- (2) S-Video cables (optional)

#### To connect:

- 1. Connect cables as shown in Connection G.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

#### **USING CONNECTION G**

#### To watch TV programs:

- 1. Turn VCR and satellite receiver off.
- 2. Press TV and tune to a channel.

#### To watch satellite programming:

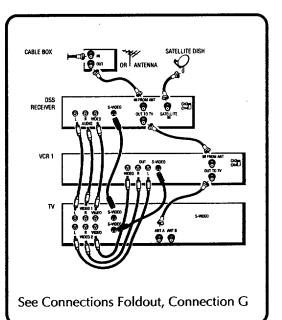
1. Press SAT•CABLE and tune to a channel.

#### To record off-air broadcasts and watch a different channel:

- 1. Turn satellite receiver off.
- 2. Press VCR1 and tune to a channel.
- 3. Begin recording.
- 4. To watch another channel, make sure the TV/VCR switch on the VCR is set to TV; then press TV and tune to a channel.

#### To play a tape on the VCR:

1. Press VCR1 and then press PLAY.



### APPENDIX A: USING CONNECTION H

#### TV, VCR, SATELLITE RECEIVER, AND LASERDISC PLAYER

This information applies to Connection H in the Connections Foldout.

#### **Connection H provides:**

- Stereo sound from broadcast programs
- Stereo sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel

#### To use this connection you must have:

- (4) coaxial cables
- (6) audio/video cables
- (2) S-Video cables (optional)

#### To connect:

- 1. Connect cables as shown in Connection H.
- 2. Return to *First Things First*, then follow the steps in the Interactive Setup.

#### **USING CONNECTION H**

#### To watch TV programs:

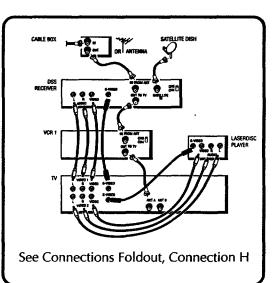
- 1. Turn VCR and satellite receiver off.
- 2. Press TV and tune to a channel.

#### To watch satellite programming:

1. Press SAT•CABLE and tune to a channel.

#### To record off-air (cable or antenna) broadcasts and watch a different channel:

- 1. Turn satellite receiver off.
- 2. Press VCR1 and tune to a channel.
- 3. Press RECORD to begin recording.
- 4. To watch another channel, make sure the TV/VCR switch on the VCR is set to TV; then press TV and tune to a channel.



### APPENDIX A: USING CONNECTION H

#### To play a tape on the VCR:

1. Press VCR1 and then press PLAY.

#### To play a laserdisc:

1. Press DVD•VCR and then press PLAY.

### APPENDIX A: USING CONNECTION I

# TV, (2) VCRS, AND SATELLITE RECEIVER

This information applies to Connection I in the Connections Foldout.

#### **Connection I provides:**

- Stereo sound from broadcast programs
- Stereo sound from VCR
- Picture in Picture (PIP)
- Viewing one channel on TV while recording another channel

#### To use this connection you must have:

- (5) coaxial cables
- (9) audio/video cables
- (2) S-Video cables (optional)

#### To connect:

- 1. Connect cables as shown in Connection I.
- 2. Return to *First Things First,* then follow the steps in the Interactive Setup.

#### **USING CONNECTION I**

#### To watch TV programs:

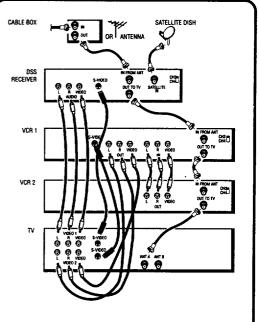
- 1. Turn VCR and satellite receiver and laserdisc player off.
- 2. Press TV and tune to a channel.

#### To watch satellite programming:

1. Press SAT•CABLE and tune to a channel.

#### To record from one VCR to the other (tape dubbing):

- 1. Turn satellite receiver off.
- 2. Insert original tape into VCR2.
- 3. Insert blank tape into VCR1.
- 4. Press VCR1.
- 5. Set VCR to line input (for more, see your VCR User Manual).
- 6. Press RECORD to begin recording.
- 7. Press DVD•VCR, then press PLAY.
- 8. If you want to watch a different channel, set the TV/VCR switch on both VCRs to TV; press TV; then tune to a channel.



See Connections Foldout, Connection I

### APPENDIX A: USING CONNECTION I

# To record off-air (cable or antenna) broadcasts and watch a different channel:

- 1. Turn off VCR2.
- 2. Insert blank tape into VCR1.
- 3 Press VCR1.
- 4. Make sure to set VCR1 to line input.
- 5. Press RECORD to begin recording
- 6. To watch another channel, make sure the TV/VCR switch on the VCR is set to TV; then press TV and tune to a channel.

#### To play a tape on VCR1:

1. Press VCR1 and then press PLAY.

Caution: The unauthorized recording of copyrighted material may infringe upon the rights of others.

# APPENDIX B: CONNECTING EXTERNAL SPEAKERS

### CONNECTING EXTERNAL SPEAKERS

You can connect up to four additional speakers to the TV: two to the FRONT SPEAKERS terminals and two to the REAR SPEAKERS terminals.

#### **Front Speakers**

To connect external speakers:

- 1. Connect speakers to the FRONT SPEAKERS terminals.
- 2. Set the SPEAKER SWITCH to EXTERNAL.

#### **Rear Speakers**

To connect rear speakers for surround sound effects.

- 1. Connect two speakers to the REAR SPEAKERS terminals.
- 2. Position them behind you in your TV room. To improve the surround sound effect, you may prefer to set or mount the several feet off the ground.

#### **Connecting Speakers to the TV**

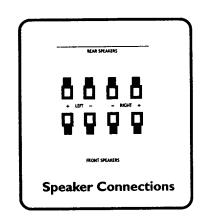
- 1. If necessary, remove the vinyl covering from the ends of the speaker wire and twist the wire core.
- 2. Press down and hold the lever on the speaker terminal.
- 3. Insert the wire core into the hole. Be sure to connect the (+) to (+) and (-) to (-).
- 4. Release the lever. Pull gently on the wire to see that it's connected securely.

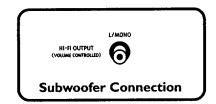
**Important:** When connecting the speaker wire, make sure you connect the positive (+) terminal on the TV to the positive (+) terminal on the speaker. One side of the speaker wire is usually marked with a white stripe to help you match up the terminals correctly. If the (+) and (-) terminals are not matched properly, the speakers will not be "in phase," causing reduction in bass frequencies.

### **Connecting a Subwoofer**

To connect a subwoofer to the TV:

 Connect the subwoofer's audio input to the left (L/MONO) HI-FI OUT jack.





#### IMPORTANT

Do not allow the wire core to touch other wires or terminals. Damage to components could result if the cores of two wires touch each other.

The TV's internal speakers are turned off when you set the switch to EXTERNAL, so be sure to reset the switch back to INTERNAL if you ever disconnect the speakers from the TV.

# APPENDIX B: CONNECTING EXTERNAL SPEAKERS

### **CONNECTING AUDIO COMPONENTS**

#### Connecting a stereo amplifier

- 1. Connect the amplifier's TV audio inputs to the left (L/MONO) and right (R) HI-FI OUTPUT jacks.
- 2. You may prefer to turn off the TV's internal speakers by selecting *Speakers* from the Audio menu, then turning the speakers off.

If your audio amplifier is part of a system that uses its own remote control, you may prefer to connect it to the TV using the Fixed Output jacks.

**Important:** Do not use the amplifier's PHONO inputs. If the amplifier is not stereo, use the L/MONO HI-FI OUT jack. Consult the amplifier's owner's manual for the manufacturer's recommended hookup.

#### **Connecting a tape deck**

To use a tape deck to record audio from TV:

1. Connect the tape deck's audio inputs to the FIXED OUTPUT jacks on the back of the TV.

The FIXED OUTPUT jacks provide a fixed level audio signal, making them ideal for audio recording, or for use with an audio amplifier that has its own remote control. No matter how the volume changes on the TV, the output volume stays the same.

# APPENDIX B: CONNECTING A CAMCORDER

### CONNECTING A CAMCORDER FOR PLAYBACK

There are two connections recommended for playing back from the camcorder to the TV:

#### **Front Connection Playback**

- 1. Locate the AV adapter included with your TV accessories.
- 2. Connect the camcorder's video **output** to the adapter's video input (yellow).
- 3. Connect the camcorder's audio **output** to the adapter's audio input (white).
- 4. Connect the adapter to the A•V jack on the front of the TV.
- 5. Press INPUT on the remote until the channel marker displays FRNT.
- 6. Start playback on the camcorder.

#### **Back Connection Playback**

- 1. Connect the camcorder's audio/video outputs to the INPUT1 audio and video jacks on the TV.
- 2. Press INPUT on the remote until the channel marker displays VID1.
- 3. Start playback on the camcorder.

#### S-VHS CAMCORDER

To connect a camcorder with S-Video capability:

- 1. Connect an S-Video cable from the camcorder to the S-VIDEO jack on the TV.
- 2. Connect the camcorder's audio/video outputs to the INPUT1 audio and video jacks on the TV.
- 3. Press INPUT on the remote until the channel marker displays VID1.
- 4. Start playback on the camcorder.

	A•V O	
L	-	

# APPENDIX B: CONNECTING A CAMCORDER

### CONNECTING A CAMCORDER TO RECORD FROM THE TV

#### To record from the TV to the camcorder:

- Connect the camcorder's audio/video input cables to the TV's FIXED OUTPUT jacks.
- 2. Consult your camcorder's owner's manual for instructions on camcorder recording.

#### **S-VHS Camcorder**

The TV does not supply video ouput in S-Video form. Use the connection described above.

The TV must remain on during recording. If you change channels on the TV, the channel change will be recorded.

Signals from the S-Video connector do not come through the FIXED OUTPUT video jack.To record to an S-Video component, remember to connect its regular video cable as well as the S-Video cable.

# APPENDIX C: TROUBLESHOOTING TIPS

### TROUBLESHOOTING

Troubles sometimes are caused by simple "faults" that you can correct without the help of a service technician. If you experience any difficulty with your TV, check a few basic remedies before calling your service technician.

#### TV will not turn on

- Check to make sure it is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Maybe batteries in remote control are "dead.
- Maybe remote control was not aimed at remote sensor.

#### Controls don't work

• If using remote control, make sure remote is in TV mode by first pressing TV button.

• Try unplugging set for two minutes and then plug it back in and turn it on again.

#### **Problems with Remote**

• Maybe something is between the remote and the remote sensor.

• Maybe the remote is not aimed directly at the component (TV or VCR) you are trying to control.

• Maybe remote is not in TV Mode. Press the TV button so remote will control TV.

• Maybe batteries in remote are weak or dead or installed incorrectly. Try replacing batteries correctly.

• Remove batteries and hold down one or more buttons for several seconds. Install the batteries and try remote.

#### Turns off while playing

• Schedule function may have been activated.

• Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high.

#### TV Turns on unexpectedly

• Schedule On function may have been activated.

#### Schedule does not turn off the TV at the set time

- Check schedule on/off function (it must be set to On).
- Check to make sure clock is set to the correct time.

# APPENDIX C: TROUBLESHOOTING TIPS

#### **Blank screen**

- Maybe the device connected to the input jacks is not turned on.
- Try another channel.
- Press RESET, in case the picture controls are set too low.

#### No sound, picture okay

• Maybe sound is muted. Try pressing volume up button to restore sound.

- Maybe TV's speakers are turned off. Check Speakers On/Off function.
- If using an S-VHS component, remember to also connect the component's L and R AUDIO OUT jacks to the TV's L and R INPUT 1 jacks.

• Maybe SPEAKER switch on the back of the TV is not in the INTERNAL position.

#### Can't select certain channel

• If using a VCR, check to make sure the TV/VCR switch on the VCR is in the correct position.

#### Noisy stereo reception

• May be a weak station. Use the Audio Processor, which is found in the Audio Menu, to change your sound mode from stereo to mono.

#### No picture, no sound but power light is on

- Maybe cable/air function is in wrong position.
- Maybe a vacant channel is tuned.

• If watching VCR (connected only through antenna input), make sure TV is tuned to channel 3 or 4 – same as CH3/4 switch on VCR. Also check to make sure TV/VCR switch on VCR is in correct position.

#### Sound₁okay, picture poor

- Check antenna connections.
- Try adjusting sharpness function to improve weak signals.

#### Black Box appears on the screen:

• Captioning may be turned on. Check the Closed-Caption Display control panel in the Channel Menu.

# APPENDIX D: LIMITED WARRANTY

### LIMITED WARRANTY

#### What your warranty covers:

• Any defect in material or workmanship.

#### For how long after your purchase:

- One year for labor charges.
- One year for parts.
- Two years for picture tube.

(The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.)

#### What we will do:

- Pay any Authorized PROSCAN Television Servicenter the labor charges to repair your television.
- Pay any Authorized PROSCAN Television Servicenter for the new or, at our option, rebuilt replacement parts and picture tube required to repair your television.

#### How you get service:

- Request home service from any Authorized PROSCAN Television Servicenter. To identify your nearest Authorized PROSCAN Television Servicenter, ask your Dealer, look in the Yellow Pages, or call 1-800-PROSCAN.
- Show the service technician your evidence of purchase date.

#### What your warranty does not cover:

- Customer instruction. (Your Owner's Manual clearly describes how to install, adjust, and operate your television. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Signal reception problems not caused by your television.
- Damage from misuse or neglect.
- Remote control batteries.
- Customer replacable fuses.
- Images burnt onto the screen.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Acts of God, such as, but not limited to lightning damage.
- A television purchased or serviced outside the U.S.A.

#### **Product Registration:**

• Please complete and mail the Product Registration Card packed with your set. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

#### How state law relates to this warranty:

• This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

#### If you purchased your television outside the U.S.A.:

This warranty does not apply. See your dealer for details.

# APPENDIX E: CARE AND CLEANING

### CARE AND CLEANING

You can clean the TV as required, using a soft cloth or the dusting attachment for your vacuum cleaner. Be sure to occasionally vacuum the ventilation slots in the cabinet to help assure adequate ventilation.

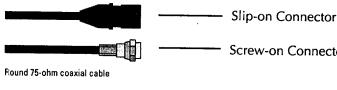
To clean the TV screen, use a diluted soap and water mixture and a soft cloth. Do not use furniture polish on the TV cabinet or screen.

While cleaning do not allow liquid to run down the screen and inside the TV. Also, avoid placing drinks or vases with water on top of the TV. This could cause damage to the TV.

# ACCESSORY CABLES

#### **General Cable Information**

Antenna (or cable-TV) connections are made with either coaxial antenna cable or twin-lead cable. Coaxial cables are shielded so they are less susceptible to hum or interference from adjacent cables.



Screw-on Connector



Flat 300-ohm twin-lead cable

Most audio/video connections between components can be made with shielded audio and video cables that have RCAtype phono connectors.



Standard Audio/Video Cable with RCA-type phono plugs

#### Color-Coded Jacks

The jacks on the TV's monitor panel are color-coded for ease of use. The VIDEO jacks are yellow, the right AUDIO jacks are red, and the left AUDIO jacks are white. When connecting components to each other, be sure that you always connect left outputs to left inputs and right outputs to right inputs. If a component has only one output (mono), connect it to the R/MONO INPUT jack.

To connect S-VHS (Super-VHS) components, an S-VHS video cable is required.

### Gold-Plated Jacks and Gold-Tipped Cables

Your ProScan monitor panel is equipped with gold-plated jacks. The gold plating helps prevent oxidation of contacts which provides much less signal loss than conventional contacts. A complete line of gold-tipped cables is available to help you obtain optimum performance from your equipment. The following accessories are available from most ProScan dealers and electronics supply stores in case you want to position your components farther apart or need additional cables.

#### Antenna Cables

Gold-Tipped Cables

Gold-Tipped Cables

AH069G (3 ft)

AH070G (5 ft)

Audio/Video Cables

AH065G (6 ft)

AH066G (10 ft)



Screw-on Cable

Attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.

### Push-on Cable

Attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. Ends push on for a quick connection.

#### Audio/Video Cable

Shielded cable for connecting AUDIO and VIDEO jacks. Has an RCA-type phono plug on each end.



**Gold-Tipped Cable** AH075G (6 ft)



Gold-Tipped Cable AH077G (6 ft)

#### Monaural VCR Dubbing Cable

Double cable that lets you connect the VIDEO and AUDIO jacks of two VHS VCRs to duplicate tapes. Can also be used to connect a VCR to your TV. Cable is color-coded and shielded. Has RCA-type phono plugs on each end.

#### Stereo VCR Dubbing Cable

Triple cable that lets you connect the VIDEO and AUDIO jacks of stereo components.

# ACCESSORY CABLES

#### Audio/Video Cables continued





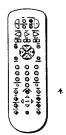
VAA014 (3 ft) VAA020 (8 ft)

#### A/V Adapter



228449

#### **Remote Controls**



CRK83GL1

### CRK61A1

### Stereo Audio Cable

Double gold-tipped cable generally used for connecting stereo audio components.

#### S-VHS Video Cable

Has multipin connectors on each end for connecting S-VHS components to your TV.

#### Accessory Order Form for ProScan TV Models

Description	Part No.	Price	Qty
Signal Splitter	AH047	\$ 3.99	
Gold-Tip Push-on Antenna Cable (6-ft)	AH065G	\$ 6.99	
Gold-Tip Push-on Antenna Cable (10-ft)	VH90	\$ 7.95	
Gold-Tip Audio/Video Cable (3-ft)	AH069G	\$ 5.99	
Gold-Tip Audio/Video Cable (5-ft)	AH070G	\$ 7.99	
Gold-Tip Stereo Cable (3-ft)	AH072G	\$ 8.99	
Gold-Tip Monaural Dubbing Cable (6-ft)	AH075G	\$ 10.99	
Gold-Tip Stereo Dubbing Cable (6-ft)	AH077G	\$ 14.99	
Screw-on Antenna Cable (3-ft)	AH037	\$ 3.95	
Wireless Headphone System	PSWH100	\$199.95	
S-VHS Video Cable (3-ft)	VAA014	\$ 27.55	
S-VHS Cable (8-ft)	VAA020	\$ 29.95	
Remote Control (CRK61A1)	221245	\$ 34.05	
Remote Control (CRK83GL1)	231541	\$ 42.00	
Audio•Video Adapter	228449	\$ 4.35	

# Audio • Video Adapter

Use the Audio • Video Adapter to plug a camcorder into the front of the TV. Replacements or spares can be ordered as needed.

#### **Remote Controls**

These are the remote controls that came packed with your TV. Replacements or spares can be ordered as needed.

#### 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, country, and locality to which the merchandise is being sent. 5.00 \$ Shipping, Handling, and Insurance ..... \$ Total Amount Enclosed ..... Use VISA or MasterCard preferably. Money order or check must be in U.S. currency only. No COD or CASH.

All accessories are subject to availability. Where applicable, we will ship a superseding model.

# ACCESSORIES



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:

PLEASE

#### To order accessories, contact your local ProScan Dealer.

If a dealer is not nearby, you can also follow the instructions below to order by telephone.

#### **United States and Canada Orders**

To place your order by phone, have your Visa or MasterCard ready and call the toll-free number listed below. Use this number only to place an order for accessory items listed on this order form.

1 - 800 - 338 - 0376

# Symbols

(0-9)	
(0-5)	***************************************

### A

A•V	
A•V jack	4,38,72
AAA batteries	
Active channel	
Additional speakers	70
Advanced Features	49
ANT B input, note	
ANTENNA	
Antenna A	
Antenna B jack	
ANTENNA button	
Antenna input	45
Arrows	
AUDIO	
AUDIO button	
Audio Codes	
Audio component	
Audio Menu	40
Audio modes	40
Audio Processor	
Auto Channel Search	6,15,16,45
Auto Color	41
Auto Tuning	45
Automatic color adjustments	
Autoprogramming	16
AV adapter	
AV jack	4, 38,72
-	

### B

Back Panel	
Basic connection	4
Batteries	4,5
Black Level	41

## С

Cable box	
Cable Box Codes	
Captioning information	42
Captioning mode	
Care and Cleaning	
CH CTRL	
CHAN	
Chan #	

Change the channel	
Channel Control	
Channel indicator	
Channel list	
Channel Marker	
Channel menu9,44	
Channel numbers	
Channel search45	
Choice Lists	
Choosing an Audio Processor55	
CLEAR	
Closed Caption Mode 42,53	
Closed Captioning52	
Closed Captioning indicator	
Closed captioning information52	
Closed Caption Display 42,52	
CODE SEARCH	
Color	
Color Warmth41	
Commercial skip timer35	
Connecting 2 VCRs61	
Connecting a Camcorder72	
Connecting a stereo amplifier71	
Connecting a Subwoofer70	I
Connecting a tape deck71	
Connecting Audio Components71	
Connecting External Speakers70	1
Connecting Speakers70	I
Connecting your TV 4	
Connections Foldout	
Contrast	
Control Panels 8,10,11	
Choice Lists	
Current channel list	

## D

Device button	
Display Closed Captioning	52
DSS receiver	21,27,32
DSS remote	27
DSS/CABLE Channel	21
DSS/Cable Channel	46
DSS/CABLE choice list	21
DVD/VCR2/LD Channel	
DVD/VCR2/LD choice list	

### E

Entering channel numbers	32
Entering Setup	16
Exit	9

### F

FIXED OUTPUT	
FIXED OUTPUT jacks	
FREEZE	
FRNT	
Front external speakers	
Front Panel	
Front Speakers	70

## G

GO BACK Button	32
Guide to the Menu System	39

### H

Headphone	
HI-FI OUTPUT	
HI-FI OUTPUT jacks	
Highlight	
Home antenna	
Home computers, note	

## I

INFO Button	
INPUT	
INPUT1	
INPUT2	
Interactive Setup	6,15

## Κ

# L

L/MONO audio jacks	
Label, displayed	
Labeling Channels	
Laserdisc Player Codes	
Limited Warranty	
Lists and Labels	
	•

## Μ

Main Menu1	0,33
------------	------

Menu commands	
Menu system	
Menus	
Mono	40
MOVE	
MOVE arrows	
MOVE PIP	
MUTE	
Mute	

## Ν

Normal channel list	18,44
Not Connected	
Number Buttons	
Numeric Entry	
Numeric entry control panel	13

## Ο

On-screen menus	8
On-screen Program Details	54
On-screen setup routine	15
Optional Stand	
Original picture settings	

### Р

D	
Parent approved list	
Parent-approved	18,44,45
Parental Control	
Picture Controls	
Picture Quality menu	
Picture-in-picture	
PIP	
PIP Channel Indicator	
PIP Operation	
PIP window	
Plug in the TV	
Point	
Point and Select	8
Polarity switch	
POWER button	
Power cord	
Program synopsis	
Program the Remote	22
Program title	54
Programming the Remotes	
Programming the Simple Remote	
Programming the Universal Remote to Control	

## Q

Quick Reference	
-----------------	--

### R

Rear speakers	
Recommended stand	
Recording from the TV	
Remote batteries, low	
Remote Buttons	32,33,34
RESET	
Reset Picture Controls	
Return to TV	12
REW, PLAY, FF, REC, STOP, PAUSE	
RIGHT audio jacks	

### S

S-VHS camcorder	
S-VIDEO	
S-Video Input	
SAP	
Satellite Box Codes	
SAT•CABLE button	
SCAN	
Schedule	
Screen Menu	
Second Audio Program	
Select	8
Set the DVD/VCR2/LD Channel	
Set the Time	13,17,43
Set the VCR2• D Channel	
Set VCR 1 Channel	19,45
Set VCR 2 Channel	46
Setting the DSS/CABLE Channel	
Setup	.15-22,16,48
Setup routine	15-22,48
Sharpness	41
Signal Source	
Signal Type	
Simple remote	4,23,28,34
Simple Remote Buttons	
CHAN DOWN	
CHAN UP	
MENU	
POWER	
TV	
VCR	
VOL <	
VOL >	

Simple Remote VCR Codes	
SKIP	
Sleep Timer	····· 4
Sleep Timer display	
Sliders	•••••••••••••••••••
Snow	
Speaker Switch	
Speakers	4
Stereo	
Stereo audio signal	
Stereo headphones	
Stereo Indicator	
STRENGTH switches	
SWAP	

### Τ

Tape dubbing	62
Things to Know Before Connecting Component	
Three-digit channel	
Time display	
Time menu	
Tint	11,41
Tone Controls	
Tour of the TV	
Transport control	
Troubleshooting Tips	
Turn speakers on or off	
TV and MONO VCR	
TV button	6,32

### U

UHF/VHF Antenna	
Universal remote	
Universal Remote VCR Codes	25
Using Connection A	58
Using Connection B	
Using Connection C	60
Using Connection D	
Using Connection E	63
Using Connection F	
Using Connection G	
Using Connection H	
Using Connection 1	68
Using PIP Buttons	51
Using the Remote	
Using the TV Connections	
5	

### V

VCR 1 Channel	
VCR 1 choice list	
VCR 2 Channel	
VCR Codes	
VCR mode	
VCR1	
VCR1 button	
VCR1 Channel	
VCR2•LD	
VCR2•LD mode	
VID1	
VID2	
Video 1 Input	
Video 1 Input jacks	
Video 2 Input	
Video 2 Input jacks	
Video games, note	
VIDEO jacks	
Video Noise Filter	
VOL	

.

.

., <sup>1</sup>



**CREATING A GREENER FUTURE** 

At **Thomson Consumer Electronics** we are dedicated to the preservation of our natural heritage and to a healthy and safe way of life for current and future generations. This is a global effort which encompasses every THOMSON facility throughout the world.

We believe that clean air, clean water, a protected earth, and healthy people are not only practical and desirable goals, but achievable ones as well. Our Corporate Environmental, Health and Safety Charter acknowledges our commitment to protect these precious assets and provides a challenging vision and guideline for conducting our business.

Below are a few examples of Thomson's achievements in our efforts to preserve our natural resources.

#### THE EARTH

**Thomson** reclaims millions of pounds of hazardous waste annually, diverting it from landfills.

**Thomson** treats millions of pounds of waste water sludge annually and renders it non-hazardous.

Thomson recycles over 50 million pounds of non-hazardous material annually that otherwise would have been treated as trash, an overall recovery rate of 50%.

Thomson globally recycles millions of pounds of broken television picture tube glass annually through both internal and external reclaim processes.

#### THE AIR

**Thomson** has replaced solvent-based paints at many locations resulting in an 80% reduction in toxic air emissions for equivelant material used.

**Thomson** has eliminated the use of ozonedepleting substances at television manufacturing facilities around the world.

**Thomson** collects and returns over 1.5 million pounds of glass and furnace dust to the glass making process annually.

**Thomson** has launched worldwide energy savings programs which contribute to efforts to reduce air emissions from electrical generating facilities.

#### THE WATER

**Thomson** recovers over 2 million pounds of fine glass particles from process water each year and recycles them back into its glass furnaces.

**Thomson's** state-of-the-art waste water treatment plants filter out over 26 million pounds of solids from process water each year.

**Thomson's** U.S. glass factory recycles 2,500 gallons of water per minute and cleans 2.6 million gallons of water per day.

**Thomson** is researching new processes and is developing new manufacturing equipment and technologies to further reduce large volume water use.

Thomson has also increased its usage of recycled materials for packaging of our products. For example, in the U.S. and Mexico our television plants use recycled content in our television cartons and instruction booklets. The inks used for the print on cartons and instruction booklets are soy based. For a free brochure regarding Thomson's Environmental Health and Safety Programs, write to Thomson Consumer Electronics' address below, attention Environmental Programs: INH340.

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

### **CONSUMER ELECTRONICS**

10330 North Meridian Street Indianapolis, IN 46290

©1996 Thomson Consumer Electronics, Inc. Trademark(s)® Registered Marca(s) Registrada(s) Printed in USA TOCOM 1508159C The following materials were used in printing this publication:

