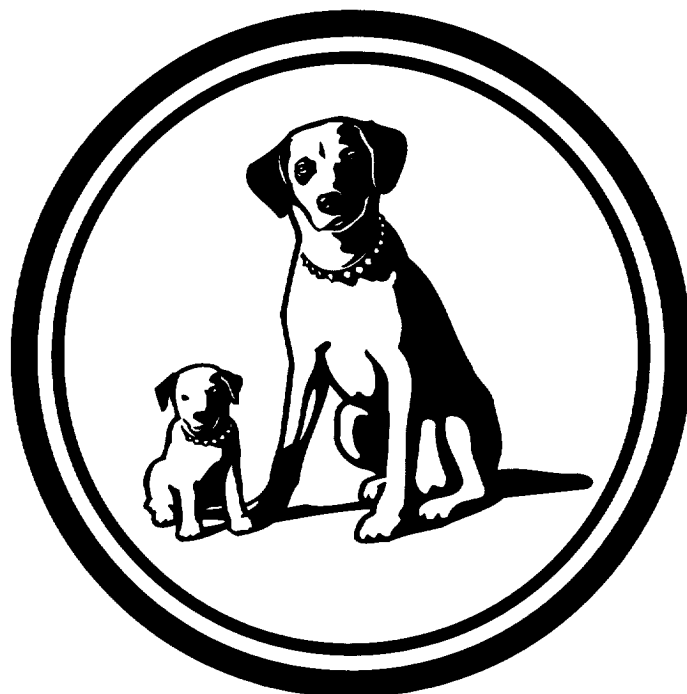


# **RCA**

## video cassette recorder user's guide

VR529

97100018



# IMPORTANT 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.



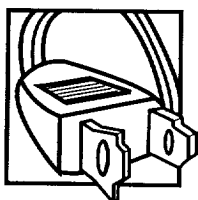
This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

## WARNING

To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.



**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 jusqu'au fond.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

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

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

## Product Registration

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

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

Model No. **VR529** \_\_\_\_\_

Serial No. \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Dealer/Address/Phone: \_\_\_\_\_

\_\_\_\_\_

# TABLE OF CONTENTS

<b>First Thing First</b> .....	<b>3</b>
<b>Setting up the VCR</b> .....	<b>7</b>
Using the QuickSet Guide .....	8
Using the Menu to Set Up Features .....	8
Language .....	8
Cable Box Setup .....	9
VCR Channels List.....	10
To Auto Channel Search .....	10
To Change the Signal Type.....	12
To Add or Remove Channels .....	12
Time and Date.....	12
Auto Clock Set Feature .....	13
Set the Time Zone .....	13
Set Daylight-Saving Time .....	14
Set the Time and Date Manually .....	14
VCR Plus+ Channels .....	15
<b>What's Next--Additional Set-Up Features</b>	
in the PREFERENCES Menu .....	17
Remote VCR1/VCR2 Option .....	18
Auto Play.....	18
Auto TV/VCR.....	19
Front Panel (VCR Display).....	19
<b>VCR Basics</b> .....	<b>21</b>
Remote Buttons .....	22
Component Buttons .....	22
VCR Function Buttons .....	22
TV Function Buttons .....	23
Playing a Tape .....	24
Automatic Rewind.....	24
Tape Eject .....	25
Recording .....	25
Check the Safety Tab .....	25
<b>Recording</b> .....	<b>27</b>
Recording Features .....	28
Express Recording .....	28
Timer Recording .....	29
Timer Recording with VCR Plus+ .....	30
Stopping a Timer Recording .....	32
Reviewing and Clearing Programs .....	33
Using Two VCRs for Copying and Editing Tapes .....	33

# TABLE OF CONTENTS

<b>Programming the Remote</b> .....	<b>35</b>
To Control a TV .....	36
To Control a Satellite Receiver or Cable Box .....	38
<b>Other Features</b> .....	<b>39</b>
Picture Search Options .....	40
Forward and Reverse Search .....	40
Slow Motion .....	40
Commercial Scan (SEARCH Button) .....	40
Frame Advance .....	41
Index Search .....	41
Zero Search .....	42
Pro-Tect Plus™ Locking Feature .....	42
Tracking .....	43
Time Counter .....	43
On-Screen Displays .....	44
<b>Connections</b> .....	<b>45</b>
Things to Know Before Connecting Components .....	45
Connecting Your VCR .....	46
Jacks and Cables .....	46
Choosing a VCR Connection .....	47
Advantages of Audio/Video Cable Connections .....	47
Don't Forget About the TV/VCR Feature .....	47
TV with RF Jack Only .....	48
TV with Audio/Video Jacks .....	49
TV with Audio/Video Jacks and Cable Box to Unscramble Pay Channels Only .....	50
TV with RF Jack and Satellite Receiver .....	51
TV with Audio/Video Jacks and Satellite Receiver .....	52
<b>Appendix A: Reference</b> .....	<b>53</b>
Front Panel .....	54
Display Panel .....	55
Back Panel .....	56
Troubleshooting Tips .....	57
Specifications .....	60
Cleaning the VCR .....	60
Limited Warranty .....	61
<b>Index</b> .....	<b>62</b>

# FIRST THINGS FIRST

**HI, MY NAME IS SUSAN...**

and I wrote this User's Guide. It's my job to see that you have a rewarding user manual experience. And, I think you'll be pleased with the features that can be accessed through the on-screen menus.

## READ THE FIRST THREE SECTIONS

The first three sections of the manual introduce you to your VCR, and show you how to set the VCR up and use the on-screen menus. Reading these sections gives you the basic information you need to use your VCR.

## WHAT'S LEFT?

The rest of the book highlights playback and recording information, contains a detailed connections section, and a reference section that includes troubleshooting tips, limited warranty, and index.

**1 FIRST THINGS FIRST**



**2 SETTING UP THE VCR**



**3 VCR BASICS**



**4 RECORDING**



**5 PROGRAMMING THE REMOTE**



**6 OTHER FEATURES**



**7 CONNECTIONS**

### READ ME!

These note boxes give you tips for your new video cassette recorder.

# FIRST THINGS FIRST

## STEP 1: UNPACK WHAT'S IN THE BOX

The following items come packed in the box:

- VCR
- Remote control
- RF coaxial cable

## STEP 2: INSTALL BATTERIES IN THE REMOTE CONTROL

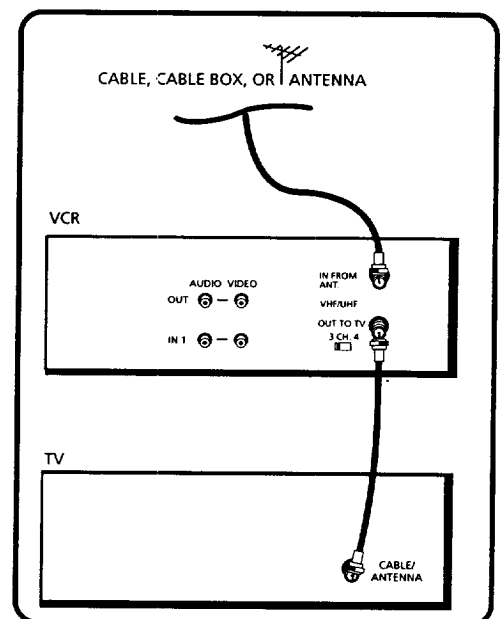
Follow these steps whenever you need to install or change the batteries in your VCR remote.

1. Remove the cover of the battery compartment.
2. Place batteries in the remote, matching the + and – ends of each battery to the diagram inside the compartment.
3. Replace the cover.

## STEP 3: CONNECT YOUR VCR

If you connect your VCR to your home antenna or cable system and then to your TV, use the VCR's IN FROM ANT. and OUT TO TV jacks for a good signal as shown.

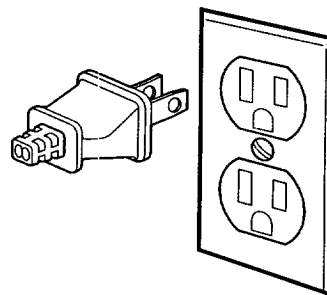
If you have a TV with AUDIO/VIDEO jacks, use the jacks for a better connection. Refer to the *Connections* section, toward the back of the manual.



# FIRST THINGS FIRST

## STEP 4: PLUG IN THE VCR

Match the wide blade of the plug with the wide slot in the outlet. Be sure to insert the plug completely.



## STEP 5: TUNE THE TV

Tune the TV to the VCR viewing channel. The VCR viewing channel is channel 3 or 4 or the TV's video input.

- If you connect your VCR using the ANTENNA connectors with RF coaxial cable, set the 3CH.4 switch to channel 3 or channel 4--the channel you want to use on your TV.
- If you connect your VCR using the AUDIO/VIDEO jacks with audio/video cables, select the TV's video input to see the signal. See the *TV Owner's Manual*.

## STEP 6: TURN ON THE VCR

The first time you connect your VCR and turn it on, a menu screen appears. This is the beginning of the QuickSet Guide which helps you to set up specific features of the VCR. If you choose not to use this Guide, you can set up each feature individually.

Go to the next step to understand how to move through and change items in the menu system.

## STEP 7: ACCESS THE MENUS

The MENU and number buttons let you access, select and change menu items. For example, to change the AUTO PLAY setting, you would do the following:

### VCR Viewing Channel

When using the ANTENNA jacks to connect your VCR, tune your TV to channel 3 or 4.

When using the audio/video jacks to connect your VCR, tune your TV to the TV's video input.

# FIRST THINGS FIRST

1. Press MENU to bring up the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

2. Press 5 to display the PREFERENCES menu.

```
PREFERENCES
1 REMOTE CONTROL: VCR1
2 AUTO PLAY:      OFF
3 AUTO TV/VCR:   OFF
4 FRONT PANEL:   AUTO

0 EXIT
```

3. Press 2 to switch AUTO PLAY to ON or OFF.

```
PREFERENCES
1 REMOTE CONTROL: VCR1
2 AUTO PLAY:      ON
3 AUTO TV/VCR:   OFF
4 FRONT PANEL:   AUTO

0 EXIT
```

See *Additional Set-Up Features* for detailed information about the AUTO PLAY feature.

## STEP 8: SET UP THE VCR

Once you understand how to move around through the menus, go to the next section to set up your VCR.



# SETTING UP THE VCR

## ON-SCREEN GUIDE AND ADDITIONAL SET-UP FEATURES

The QuickSet Guide is a one-time procedure that takes you through specific features to set up your VCR. In addition to the Guide, there are other features you may want to set up, such as:

- Select a language
- Set up for a Cable Box
- Set up VCR Channel List (AUTO CHANNEL SEARCH)
- Set Time Zone and Daylight Savings (Auto Clock)
- Set the Time and Date Manually
- Set up VCR Plus+ Channels
- Set the REMOTE VCR1/VCR2 feature
- Set the AUTO PLAY feature
- Set the AUTO TV/VCR feature
- Set the FRONT PANEL brightness feature

## 1 FIRST THINGS FIRST



## 2 SETTING UP THE VCR



## 3 VCR BASICS



## 4 RECORDING



## 5 PROGRAMMING THE REMOTE



## 6 OTHER FEATURES

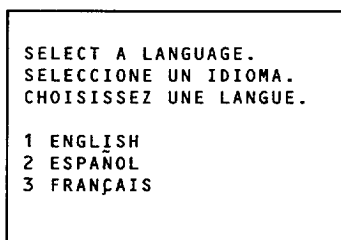


## 7 CONNECTIONS

# SETTING UP THE VCR

## USING THE QUICKSET GUIDE

The QuickSet Guide is an automated procedure that helps you set up your VCR. The first time you turn on your VCR, the first screen of the guide appears.



Just follow the step-by-step procedures until setup is complete. Some of the feature options may not apply to your VCR configuration.

If the menu does not appear:

- Make sure TV is tuned to the same channel as the 3CH.4 switch or TV's video line input.
- Make sure VCR indicator is on in the VCR display if you connected your VCR using the ANTENNA IN and OUT jacks.
- Check your connections.

If you choose to set up the VCR options individually, then go to the next section.

## USING THE MENU TO SET UP FEATURES

You can set up features by using the menu system. Each feature that appears in the QuickSet Guide is explained in this section as well as a few others you may want to set up before you begin using your VCR.

### LANGUAGE

Select your preferred language, and the on-screen displays will appear in that language.

#### On-Screen Menus

Not all the VCR screens are shown in this manual when explaining the features.

# SETTING UP THE VCR

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

2. Press 6 to select and display the LANGUAGE menu.

```
LANGUAGE

SELECT A LANGUAGE.

1▶ ENGLISH
2 ESPAÑOL
3 FRANÇAIS

PRESS MENU TO CONTINUE
```

3. Select English, Español (Spanish), or Français (French).

## CABLE BOX SETUP

This setup applies only when all channels are received through the cable box. The VCR will automatically enter the output channel of the cable box when programming your VCR for timer recordings.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

2. Press 4 to display the CHANNELS menu.

```
CHANNELS

1 AUTO CHANNEL SEARCH
2 ADD/REMOVE CHANNELS
3 SIGNAL TYPE: CABLE
4 VCR PLUS+ CHANNEL LIST
5 CABLE BOX SETUP

0 EXIT
```

# SETTING UP THE VCR

3. Press 5 to display CABLE BOX SETUP. Then select one of the three choices.

```
CABLE BOX SETUP
DO YOU USE YOUR CABLE
BOX TO RECEIVE ALL
CHANNELS OR ONLY SOME
CHANNELS?
1 ALL CHANNELS
2 ONLY SOME CHANNELS
3 CANCEL SETUP
```

4. If you selected ALL CHANNELS, enter the output channel of your cable box, usually 03, 04, or video line input and press MENU.

```
CABLE BOX SETUP
ON WHAT CHANNEL DOES
THE VCR RECEIVE SIGNALS
FROM THE CABLE BOX?
(USUALLY 3, 4, OR VIDEO)
--
ENTER 01-13 OR INPUT
PRESS MENU TO CANCEL
```

```
CABLE BOX SETUP
THE VCR WILL NOW
RECEIVE ALL SIGNALS
FROM THE CABLE BOX
ON CHANNEL 04.
PRESS MENU TO CONTINUE
```

Once you complete the setup, the VCR confirms that Cable Box Setup is complete.

## VCR CHANNELS LIST

If you use a cable box for *all channels*, this step is not necessary. Your VCR may come with a channel list preset at the factory. Even though your VCR may come with a list, it's possible that you may want to add or eliminate some channels depending on whether they are active.

### To AUTO CHANNEL SEARCH

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE
0 EXIT
```

#### Cable Box Setup

**ALL CHANNELS:** enter two numbers for output channel of your cable box or press INPUT.

**ONLY SOME CHANNELS:** if you only use the cable box to tune premium channels.

**CANCEL SETUP:** select to cancel.

# SETTING UP THE VCR

- Press 4 to display the CHANNELS menu.

```
CHANNELS
1 AUTO CHANNEL SEARCH
2 ADD/REMOVE CHANNELS
3 SIGNAL TYPE: CABLE
4 VCR PLUS+ CHANNEL LIST
5 CABLE BOX SETUP

0 EXIT
```

- Press 1 to display the AUTO CHANNEL SEARCH menu.

```
AUTO CHANNEL SEARCH
WHAT TYPE OF SIGNAL
ARE YOU USING?
1 CABLE TV
2 ANTENNA
3>DETECT AUTOMATICALLY

0 CANCEL
```

- Select one of the three AUTO CHANNEL SEARCH options.

Choices one and two are self-explanatory. If you choose DETECT AUTOMATICALLY, the VCR automatically detects which signal system you have attached to your VCR.

```
AUTO CHANNEL SEARCH

NOW SCANNING CHANNEL 14

PRESS ANY KEY TO CANCEL
```

The VCR begins scanning for the available channels--this takes about one to two minutes. The lowest channel is tuned once the search is complete. Now pressing CHANNEL up or down should only select the active channels.

## Detect Automatically

A strong cable or antenna signal in your area may cause Auto Detect to mis-detect. If this should happen, select 1 or 2 for the system you have.

## Auto Channel Search

Use the AUTO CHANNEL SEARCH feature to place all available channels in memory.

If you ever change cable or antenna signals, you may need to AUTO CHANNEL SEARCH again.

# SETTING UP THE VCR

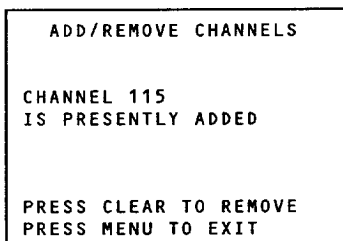
## To Change the Signal Type

1. Press MENU to display the VCR MAIN MENU.
2. Press 4 to display the CHANNELS menu.
3. Press 3 to change the SIGNAL TYPE between CABLE and ANTENNA.

## To ADD or REMOVE Channels

You may want to add or remove channels after you AUTO CHANNEL SEARCH, especially if some of the channels have weak signals or you don't want to watch them.

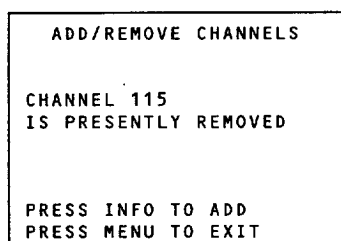
1. Press MENU to display the VCR MAIN MENU.
2. Press 4 to display the CHANNELS menu.
3. Press 2 to display the ADD/REMOVE CHANNELS screen. Use CHANNEL up or down or number buttons to go to the channels you want to remove or add.



ADD/REMOVE CHANNELS

CHANNEL 115  
IS PRESENTLY ADDED

PRESS CLEAR TO REMOVE  
PRESS MENU TO EXIT



ADD/REMOVE CHANNELS

CHANNEL 115  
IS PRESENTLY REMOVED

PRESS INFO TO ADD  
PRESS MENU TO EXIT

## TIME AND DATE

The VCR gives you two ways to set the time and date. The Auto Clock feature which enables the VCR to update the clock each time you turn off the VCR. The Auto Clock feature is advantageous because it updates the time for you automatically. The second way is entering the time and date manually into the menu system.

### Selecting Channels

The CHANNEL up and down buttons access those channels active in your VCR channel list.

You can still access channels not in the channel list by using the number buttons on the remote.

# SETTING UP THE VCR

## AUTO CLOCK SET FEATURE

The Auto Clock feature is set to ON at the factory. In the ON setting, the VCR looks for a channel carrying XDS (Extended Data Services) information and updates the clock using the Coordinated Universal Time. There are certain steps that are required, such as Auto Channel Search, Time Zone, and Daylight Savings, before the Auto Clock feature works.

## SET THE TIME ZONE

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

2. Press 3 to display TIME menu.

```
TIME
1 SET TIME AND DATE
2 AUTO CLOCK SET: ON
3 SET TIME ZONE
4 SET DAYLIGHT SAVINGS

XDS TIME DATA WAS
FOUND ON CHANNEL 20.

0 EXIT
```

3. Press 3 to display the SET TIME ZONE screen.

```
SET TIME ZONE
WHAT IS YOUR TIME ZONE?
1 EASTERN
2 CENTRAL
3 MOUNTAIN
4 PACIFIC
5 ALASKA
6 HAWAII
7▶AUTOMATIC
PRESS MENU TO CONTINUE
```

4. Select your time zone.

If you select Automatic for your time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds. If the time is not correct, select another time zone or set the time and date through the menu system.

### Auto Clock Info

With a cable box, the VCR will not reset the clock after a power outage unless the cable box is set to the channel carrying the broadcast signal.

IF AUTO CLOCK SET is unsuccessful, try tuning the VCR (or cable box) to a channel carrying the XDS information (usually PBS), then turn the VCR off. If the time does not set within 10 minutes, set the time and date manually through the menu items.

Check local cable system or TV stations for availability of channels with XDS.

# SETTING UP THE VCR

## SET DAYLIGHT SAVINGS

1. Press MENU to display the VCR MAIN MENU.
2. Press 3 to display the TIME menu.
3. Press 4 to display the SET DAYLIGHT SAVINGS menu.

```
SET DAYLIGHT SAVINGS
DOES YOUR AREA OBSERVE
DAYLIGHT SAVINGS TIME
FROM APRIL TO OCTOBER?

1 YES, DST IS OBSERVED
2 NO
3▶AUTOMATIC
PRESS MENU TO CONTINUE
```

4. Select one of the options.
  - DST is the acronym for Daylight Savings Time.
  - If you choose AUTOMATIC, the VCR sets the clock using the DST information broadcast in the signal (channel).

## SET THE TIME AND DATE MANUALLY

If the AUTO CLOCK SET was unsuccessful, set the clock through the menu option. The AUTO CLOCK SET feature is set to OFF automatically when you set the clock this way.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

2. Press 3 to display the TIME menu.

```
TIME
1 SET TIME AND DATE
2 AUTO CLOCK SET: ON
3 SET TIME ZONE
4 SET DAYLIGHT SAVINGS

XDS TIME DATA WAS
NOT FOUND.

0 EXIT
```

### Spring forward; Fall backward

In the Spring, daylight-saving time begins on the first Sunday in April. Because the clock automatically changes from 2:00 AM to 3:00 AM (forward one hour), remember to include the extra hour for timer recording falling within this time frame.

In the Autumn, daylight-saving time ends on the last Sunday in October. The VCR clock automatically changes from 2:00 AM to 1:00 AM (back one hour). Therefore, it can affect your recording length.



# SETTING UP THE VCR

3. Press 1 to display the SET TIME AND DATE menu.

```
SET TIME AND DATE
TIME --:--
  (HH:MM)
DATE --/--/--
PRESS MENU TO CANCEL
```

4. Enter the data using the number buttons. Press 0 before single-digit numbers and follow the on-screen directions.

```
SET TIME AND DATE
TIME 12:34 PM
DATE 11/18/97 TUESDAY
PRESS CLEAR TO CORRECT
PRESS MENU TO SET
```

## VCR PLUS+ CHANNELS

Using VCR Plus+ can make programming timer recordings for cable or off-air antenna easier, but you have to put in a little time right now to set up a channel list. A worksheet and abbreviated codes for typical cable services in the U.S. and Canada are provided on the following pages.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE
0 EXIT
```

2. Press 4 to display the CHANNELS menu.

```
CHANNELS
1 AUTO CHANNEL SEARCH
2 ADD/REMOVE CHANNELS
3 SIGNAL TYPE: CABLE
4 VCR PLUS+ CHANNEL LIST
5 CABLE BOX SETUP
0 EXIT
```

### Time/Date Display

Pressing INFO on the remote displays the time and date on the screen.

### VCR Plus+ Channel List

Refer to your local television list for a complete VCR Plus+ channel list for your viewing area or contact your cable company. Using the list may save you some time.



# SETTING UP THE VCR

- Press 4 to display the VCR PLUS+ CHANNEL LIST screen.

```

VCR+ CHANNEL MY CHANNEL
  5          --
  4          --
  3 -> -> ->  --
  2          --
  1          --

USE CH+/- TO SELECT
PRESS 0-9 TO CHANGE
PRESS MENU TO SAVE
    
```

- Enter the data following the on-screen directions using your worksheet.

```

VCR+ CHANNEL MY CHANNEL
  5          46
  4          --
  3 -> -> ->  23
  2          --
  1          --

USE CH+/- TO SELECT
PRESS 0-9 TO CHANGE
PRESS MENU TO SAVE
    
```

*Screen is for an example only.*

## WHAT'S NEXT--ADDITIONAL SET-UP FEATURES IN THE PREFERENCES MENU

The features in this section are all accessed through the PREFERENCES menu.

- Press MENU to display the VCR MAIN MENU.

```

      VCR MAIN MENU
  1 VCR PLUS+
  2 TIMER RECORDINGS
  3 TIME
  4 CHANNELS
  5 PREFERENCES
  6 LANGUAGE

0 EXIT
    
```

### Two-Digit VCR Plus+ Channel Numbers for Cable TV (Canadian List)

- 67 Allarcom Pay Television/ Superchannel
- 44 Arts & Entertainment
- 72 Cable News Network-Headline News
- 61 Cable News Network
- 70 Canadian Home Shopping Network
- 56 Canal Famille
- 69 Cathay International Television Inc
- 68 Chinavision Canada Corp
- 60 Country Music Television
- 63 Family Channel
- 62 First Choice
- 96 First Choice Two
- 97 First Choice Three
- 99 First Choice Four
- 90 House of Commons
- 91 La Chaine Francaise
- 51 The Learning Channel
- 65 MeteoMedia/The Weather Network
- 48 MuchMusic Network
- 55 MusiquePlus
- 52 Nashville Network
- 73 Newsworld/CBC
- 53 Le Reseau des Sports
- 43 The Sports Network
- 64 Super Ecran
- 37 Super Ecran B
- 98 Super Ecran C
- 66 Telatino Network
- 46 TV5 Montreal
- 92 Viewer's Choice 1
- 93 Viewer's Choice 2
- 94 Viewer's Choice 3
- 95 Viewer's Choice 4
- 71 Vision TV: Canada's Faith Network
- 38 Youth TV, Canada Inc.

# SETTING UP THE VCR

2. Press 5 to display the PREFERENCES menu.

```

      PREFERENCES
1 REMOTE CONTROL: VCR1
2 AUTO PLAY:      OFF
3 AUTO TV/VCR:   OFF
4 FRONT PANEL:   AUTO

0 EXIT

```

Now you are ready to select an item from the menu to set up.

## REMOTE VCR1/VCR2 OPTION

If you own a compatible RCA, GE, or ProScan remote that has a VCR2, VCR2•LD, or DVD•VCR2 button, this feature allows you to set this VCR to respond to that button.

Press 1 to select the REMOTE CONTROL item. Then press the VCR2, VCR2•LD, or DVD•VCR2 button to change.

```

      PREFERENCES
(PRESS VCR2 TO CHANGE)
2 AUTO PLAY:      OFF
3 AUTO TV/VCR:   OFF
4 FRONT PANEL:   AUTO

0 EXIT

```

```

      PREFERENCES
1 REMOTE CONTROL: VCR2
2 AUTO PLAY:      OFF
3 AUTO TV/VCR:   OFF
4 FRONT PANEL:   AUTO

0 EXIT

```

The VCR will only respond to the compatible remote's VCR2, VCR2•LD, or DVD•VCR2 button. If you change the remote setting to VCR2, the remote that came with your VCR will no longer control it.

To change the remote setting back to VCR1, display the PREFERENCES menu, press 1 on the compatible remote, and then press VCR on the VCR's remote.

## AUTO PLAY

This feature allows the VCR to automatically start playing when you insert a tape with the safety tab removed. Press 2 to switch between ON or OFF.

### Remote Control Option

Changing the remote option to VCR2 disables the remote that came with your VCR.

# SETTING UP THE VCR

- Select ON if you want a tape with its safety tab removed to start playing automatically when the tape is inserted.
- Select OFF if you *do not* want a tape with its safety tab removed to start playing automatically.

## AUTO TV/VCR

This feature controls whether the TV/VCR switch changes automatically to the VCR mode, when the VCR is turned on. Press 3 to switch between ON and OFF.

- Select ON if you want the VCR to switch to the VCR mode when the VCR is turned on or a cassette is inserted. *This only applies if you connect the ANTENNA IN and OUT jacks of your VCR and TV and watch your VCR on channel 3 or 4 of your TV.*
- Select OFF if you want the VCR to remain in the TV mode. This is useful if you watch your VCR on the TV's video input and you don't want your antenna/cable signal interrupted by the VCR.

## FRONT PANEL (VCR DISPLAY)

You can change the brightness level of the fluorescent display panel on the front of the VCR. Press 4 to switch between the options.

- AUTO brightens the display when the VCR is on and dims the display when the VCR is off.
- BRIGHT keeps the display bright.
- DIM keeps the display at a low brightness level.

### Auto TV/VCR

Pressing TV•VCR on the remote will still switch between the VCR and TV mode.

VCR mode: VCR indicator in the display panel lights.

TV mode: VCR indicator turns off.



# VCR BASICS

## LEARN THE BASICS TO GET YOU STARTED

These VCR basics should be enough for you to begin enjoying your VCR. Learning the remote control functions, playing a recorded tape, and recording a program should do just that.

However, there are other features that enhance the enjoyment of your VCR, but they aren't necessary to get you started. If you want to learn more about your VCR, just keep reading.

**1** FIRST THINGS FIRST



**2** SETTING UP THE VCR



**3** VCR BASICS



**4** RECORDING



**5** PROGRAMMING THE REMOTE



**6** OTHER FEATURES



**7** CONNECTIONS

VCR Basics tells you what you need to know in order to watch a movie or tape your favorite show.

# VCR BASICS

## REMOTE BUTTONS

The remote control is capable of controlling more than just your VCR, and if you have compatible RCA, ProScan, or GE components, you may be able to control them without even having to program the remote.

## COMPONENT BUTTONS

**POWER** Turns off VCR when remote is set to control the VCR. Also turns some compatible components on and off.

**SAT CABLE** Turns on a compatible RCA, ProScan, or GE satellite receiver and sets the remote to control the compatible satellite receiver. Also used with the POWER button to turn on a compatible cable box (if programmed) and sets the remote to control the cable box.

**TV** Turns on a compatible RCA, ProScan, or GE TV and sets the remote to control the TV. Also used with the POWER button to turn on a different brand of TV (if programmed) and sets the remote to control the TV.

**VCR** Turns on a compatible RCA, ProScan, or GE VCR and sets the remote to control the VCR.

## VCR FUNCTION BUTTONS

**CHAN Up or Down** Selects next higher or lower channel in the VCR's channel memory.

**CLEAR** Resets time counter to 0:00:00. Allows you to change entries when setting the clock or a timer recording.

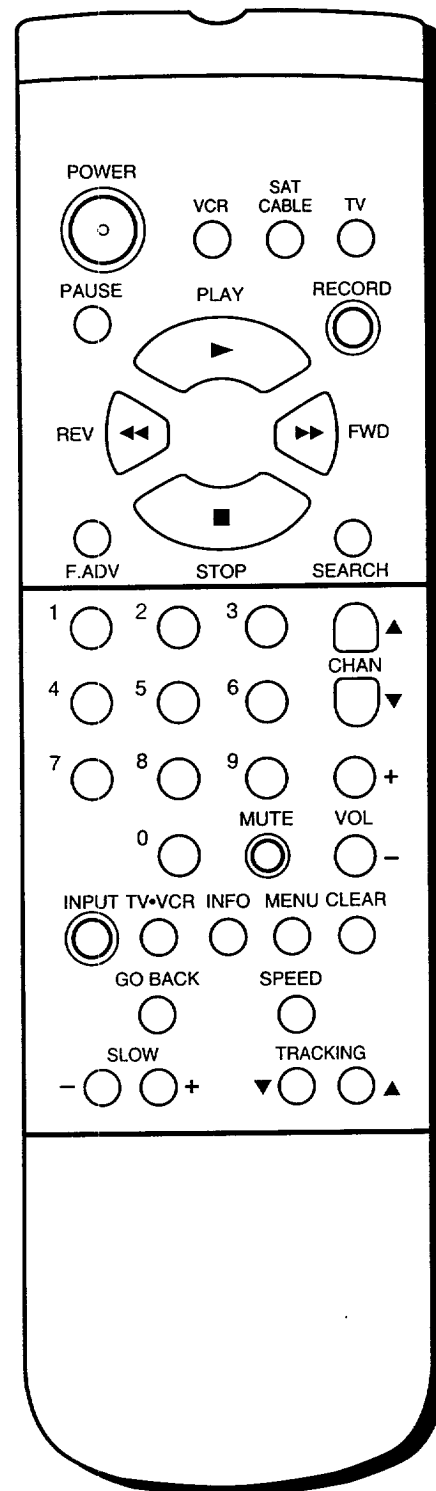
**F.ADV** Lets you view one frame with each press of the button when tape is in pause.

**FWD** Fast forwards the tape when the VCR is stopped. Searches forward through a tape during playback. Starts slow motion during play-pause.

**GO BACK** Switches between two channels. Select one channel and then select another using the number buttons. Press GO BACK to switch between the two channels.

**INFO** Shows the status displays on the TV screen.

**INPUT** Selects between the line input and the VCR's tuner. Line input refers to the signal coming from the component connected to the audio/video input jacks on the back of the VCR.





# VCR BASICS

**MENU** Brings up VCR MAIN MENU on the TV screen. Used to select a menu item or exit a menu.

**Numbers (0 through 9)** Select a channel up to 99 by pressing two numbers. Select a cable channel over 99 by pressing and holding 1 until 1 -- appears on the screen. Then press the other two numbers.

**PAUSE** Pauses playback or recording. Press PAUSE again to return to playback or recording.

**PLAY** Plays a tape.

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

**RECORD** Starts VCR recording. Also used for express recording.

**REV** Rewinds the tape when the VCR is stopped. Searches backward through a tape during playback. Starts slow motion during play-pause.

**SEARCH** Displays INDEX and ZERO SEARCH menus on TV screen when VCR is stopped. Advances the tape 60 seconds of recorded material during playback.

**SLOW + and -** Used for slow-motion playback. Press + to increase the speed or - to decrease the speed.

**SPEED** Selects a recording speed (SP or SLP).

**STOP** Stops the current VCR function such as record, playback, rewind, or fast forward.

**TRACKING Up or Down** Lets you manually reduce the streaks that may appear on the picture during play, slow motion, or pause. Reduces picture "jitter" during stop-action playback.

**TV•VCR** Switches the picture signal so that it either comes from the VCR, or cable/antenna system.

## TV FUNCTION BUTTONS

**CHAN Up or Down** Selects next higher or lower channel in the TV's channel memory.

**CLEAR** Removes menus or status displays from the screen.

**GO BACK** Switches between two channels. Select one channel and then select another using the number buttons. Press GO BACK to switch between the two channels.

**INFO** Shows the TV's status displays on the TV screen.

### TV Buttons

The TV buttons may not control all features of all models of RCA, ProScan and GE TVs.

# VCR BASICS

**MUTE** Reduces volume to minimum level.

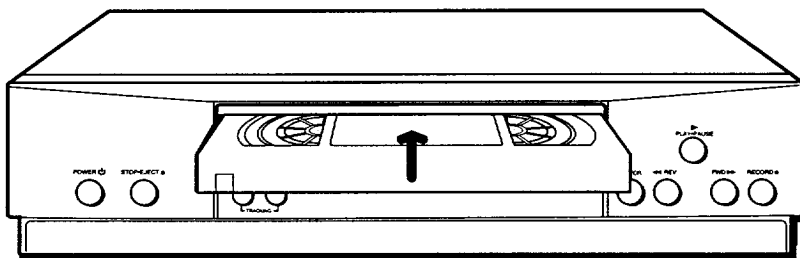
**Numbers (0 through 9)** Select a channel up to 99 by pressing two numbers. Select a cable channel over 99 by pressing and holding 1 until 1 -- appears on the screen. Then press the other two numbers.

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

**VOL Up and Down** Raises and lowers sound of TV.

## PLAYING A TAPE

1. Tune the TV to your VCR viewing channel (3, 4, or TV's video input).
2. Insert a tape in the VCR.



If the AUTO PLAY feature is set to ON, the tape automatically begins playback (if the safety tab on the cassette is removed).

- Press FWD or REV to position the tape.
- Press PLAY (if necessary) on the remote (PLAY•PAUSE on VCR) to begin tape play.
- Press PAUSE (PLAY•PAUSE on VCR) for stop action.
- Press TRACKING up or down to remove any streaks from the picture, if necessary.
- Press STOP on the remote (STOP•EJECT on VCR) to stop playback.

## AUTOMATIC REWIND

The VCR automatically rewinds the tape if it reaches the end of the tape during playback. While rewinding, you can press POWER and the VCR will turn off after rewinding.

### Pause

If you pause, the VCR automatically switches from pause to stop after a few minutes to reduce tape wear.

### Automatic Tracking

The VCR has automatic tracking which adjusts the picture when playing back a tape recorded on another VCR. Automatic tracking is turned on whenever a tape is inserted or the VCR's power is turned on.

# VCR BASICS

## TAPE EJECT

Press STOP•EJECT on the VCR when it is stopped to eject the tape.

## RECORDING

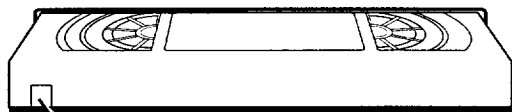
If you want to record something that you're watching, you can use basic recording.

1. Set the tape speed by pressing the SPEED button on the remote (see margin note for information about tape speed settings).
2. Press the RECORD button to begin recording.
3. Press STOP on the remote (STOP•EJECT on the VCR) to stop recording.

If you just want to pause the recording for a short time (like during a commercial), press the PAUSE button on the remote (PLAY•PAUSE on VCR) instead of STOP.

## CHECK THE SAFETY TAB

No matter which recording option you use, you need to make sure there is a tape in the VCR, and that the tape's safety tab is in place. You cannot record on a tape with the safety tab removed.



Safety Tab

If the safety tab is removed and you want to record over it, simply cover the hole with vinyl tape.

### Tape Speeds

#### SP (Standard Play)

Gives the best quality recording, but fewer programs can be recorded on the tape. Special effects such as pause, slow motion, picture search, and frame advance work well when you play back tapes recorded in this speed.

#### LP (Long Play)

Your VCR is capable of playing back tapes recorded in LP. You cannot record in the LP speed.

#### SLP (Super Long Play)

Gives three times the recording time of tapes recorded in SP. Special effects such as pause, slow motion, picture search, and frame advance work well when you play back tapes recorded in this speed.

	Recording Time	
Cassette	SP	SLP
T-120	2Hr	6Hr
T-160	2Hr 40Min	8Hr



# RECORDING

## SEVERAL RECORDING OPTIONS

Now that you've gone through the necessary steps to operate your VCR, I'll explain the different recording features that are available to suit your needs.

### Recording Features:

- Recording (explained in *VCR Basics* section)
- Express Recording
- Timer Recording
- Timer Recording with VCR Plus+
- Copying and Editing Tapes

**1** FIRST THINGS FIRST



**2** SETTING UP THE VCR



**3** VCR BASICS



**4** RECORDING



**5** PROGRAMMING THE REMOTE



**6** OTHER FEATURES



**7** CONNECTIONS

# RECORDING

## RECORDING FEATURES

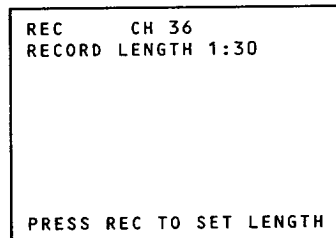
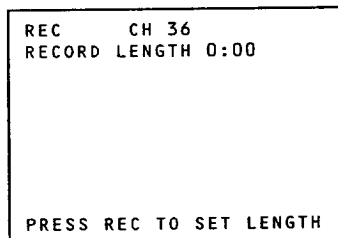
There are four ways to record programs:

- **Recording** lets you press one button to start recording a program. (See *VCR Basics* section.)
- **Express Recording** lets you start recording a program you are watching, and then set the VCR to automatically stop recording after a designated period of time.
- **Timer Recording** lets you program the VCR to automatically start and stop recording at a predetermined time.
- **Timer Recording with VCR Plus+** lets you program the VCR just by entering a PlusCode number found in some TV guides.

## EXPRESS RECORDING (XPR)

Use express recording when you want to quickly record the remaining portion of the program you are watching.

1. Set the tape speed by pressing the SPEED button on the remote.
2. Press the RECORD button to begin recording.
3. Repeatedly press the RECORD button to set up the recording duration.



Each time you press the RECORD button, you increase the recording time (up to 4 hours).

The VCR continues to record for the amount of time you indicate, and then automatically turns off.

### Express Recording

Express recording is a great way to tape the last quarter of the game, or the last part of a movie when you have to leave.

To stop an express recording, press and hold STOP on the remote (STOP•EJECT on the VCR) for a few seconds.

# RECORDING

## TIMER RECORDING

You can set up as many as eight timer recording programs.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

2. Press 2 to display the TIMER RECORDINGS menu.

```
TIMER RECORDINGS
1 CREATE A NEW PROGRAM
2 REVIEW EXISTING PROGS.
3 USE VCR PLUS+ CODE

0 EXIT
```

3. Select 1 to CREATE A NEW PROGRAM.

```
HOW OFTEN SHOULD THIS
PROGRAM RECORD?
1 ONE TIME
2 DAILY (EVERY DAY)
3 WEEKDAYS (M-F)
4 WEEKLY (ONCE PER WEEK)

0 CANCEL
```

4. Select how often you want the program to record.

```
PROGRAM 1 (ONE TIME)
CHANNEL --
START TIME ---:--
END TIME ---:--
START DATE --/--/--
TAPE SPEED SLP

PRESS MENU TO CANCEL
```

5. Enter the data for the program with the number buttons.

The data includes the channel number (press INPUT to select the line input), start time including AM or PM, and end time. The start date is automatically entered based on the VCR clock. Both the date and speed can be changed.

### Timer Recording Information

**Clock must be set correctly.**

Insert a tape with the safety tab in place and enough tape to record the program.

The output of your cable box appears in the "CHANNEL" item of the timer recording menu if you've set up for a cable box.

**PROGRAMS OVERLAP** appears if you have entered two programs where the times overlap.

The **TIMER** indicator appears in the display when you turn off the VCR and a timer recording has been set. It flashes if there is no tape in the VCR.

For cable box, turn on the cable box and tune it to the channel you want to record before the recording is to begin.

# RECORDING

- Review the information to make sure it is correct, and then press MENU to save.

```
PROGRAM 1 (ONE TIME)
CHANNEL      03 CABLE
START TIME  08:00 PM
END TIME    09:30 PM
START DATE  10/24/97 FRI
TAPE SPEED  SLP
              1=SP 2=SLP
PRESS CLEAR TO CORRECT
PRESS MENU TO SAVE
```

```
PROGRAM 1 HAS BEEN SAVED
REMEMBER TO INSERT A
RECORDABLE TAPE AND
TURN THE VCR OFF BEFORE
THE PROGRAM START TIME.
PRESS MENU TO CONTINUE
```

## TIMER RECORDING WITH VCR PLUS+

You can use VCR Plus+ to simplify timer programming if you have cable TV and don't receive all channels through a cable box or if you get your TV signal off-air.

### Setting Up the Channel List

If you did not set up the VCR Plus+ channel list, you can do it now.

- Display the CHANNELS menu from the VCR MAIN MENU.
- Display the VCR PLUS+ CHANNEL LIST menu.
- Go to *Setting Up Your VCR* if you need more information on setting up your VCR Plus+ channel list.

### Using VCR Plus+

- Press MENU to bring up the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS
5 PREFERENCES
6 LANGUAGE

0 EXIT
```

- Press 1 to display the VCR PLUS+ menu.

```
VCR PLUS+
ENTER PLUSCODE NUMBER
(FROM TV LISTING)
-
PRESS MENU TO CANCEL
```

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS
3 TIME
4 CHANNELS

CHANNELS
1 AUTO CHANNEL SEARCH
2 ADD/REMOVE CHANNELS
3 SIGNAL TYPE: CABLE
4 VCR PLUS+ CHANNEL LIST

VCR+ CHANNEL MY CHANNEL
5 46
4 --
3 -> -> -> 23
2 --
1 --

USE CH+/- TO SELECT
PRESS 0-9 TO CHANGE
PRESS MENU TO SAVE
```



# RECORDING

3. Enter the VCR PlusCode shown in your local television programming guide.

```
VCR PLUS+
ENTER PLUSCODE NUMBER
(FROM TV LISTING)
12876

PRESS CLEAR TO CORRECT
PRESS MENU WHEN DONE
```

4. Press MENU to enter the VCR PlusCode number.

```
HOW OFTEN SHOULD THIS
PROGRAM RECORD?

1 ONE TIME
2 DAILY (EVERY DAY)
3 WEEKDAYS (M-F)
4 WEEKLY (ONCE PER WEEK)

0 CANCEL
```

5. Indicate how often you want the program to be recorded.

```
PROGRAM 1 (ONE TIME)

CHANNEL 03 CABLE
START TIME 08:00 PM
END TIME 09:30 PM
START DATE 10/24/97 FRI
TAPE SPEED SLP

PRESS CLEAR TO ADJUST
PRESS MENU TO SAVE
```

6. Change the speed with the SPEED button on the remote or the program end time with the CLEAR button on the remote (if necessary).

Changing the end time comes in handy when you are recording a program such as a sporting event that may exceed the scheduled broadcast time.

7. Press MENU to save the program.

```
PROGRAM 1 HAS BEEN SAVED

REMEMBER TO INSERT A
RECORDABLE TAPE AND
TURN THE VCR OFF BEFORE
THE PROGRAM START TIME.

PRESS MENU TO CONTINUE
```

## VCR Plus+ Recording

Clock must be set correctly.

Insert a tape with the safety tab in place and enough tape to record the program.

The output channel of your cable box appears in the "CHANNEL" item of the timer recording menu if you've set up for a cable box.

UNRECOGNIZED NUMBER... PLEASE RE-ENTER appears when the VCR does not recognize the PlusCode number.

PROGRAMS OVERLAP appears if you have entered two programs where the times overlap.

The TIMER indicator appears in the display when you turn off the VCR and a timer recording has been set. It flashes if there is no tape in the VCR.

Turn on the cable box and tune it to the channel you want to record before the recording is to begin.

# RECORDING

## STOPPING A TIMER RECORDING

To stop or cancel a timer recording in progress (even an express recording):

- Press and hold the STOP button on the remote (STOP•EJECT button on the VCR) for a few seconds.

## REVIEWING AND CLEARING PROGRAMS

To review programs that you have already set up:

1. Press 2 when the VCR MAIN MENU is displayed to display the TIMER RECORDINGS menu.

```
TIMER RECORDINGS
1 CREATE A NEW PROGRAM
2 REVIEW EXISTING PROGS.
3 USE VCR PLUS+ CODE

0 EXIT
```

2. Press 2 to display the REVIEW EXISTING PROGS. screen.

```
PROGRAM 1 (ONE TIME)
CHANNEL 104 CABLE
START TIME 12:00 AM
END TIME 01:30 AM
START DATE 10/24/97 FRI
TAPE SPEED SLP

PRESS CLEAR TO ERASE
PRESS MENU FOR NEXT PROG
```

3. Press CLEAR to erase or MENU to see the next program.

# RECORDING

## USING TWO VCERS FOR COPYING AND EDITING TAPES

Use one VCR as the *playback VCR* and the other as the *recording VCR*.

1. Turn on the TV and VCRs.
2. Tune the TV to the VCR viewing channel (either 3, 4, or TV's video input).
3. If you connected your VCR using the ANTENNA jacks, tune *recording VCR* to channel 3 or 4--the one selected on the back of the *playback VCR*.

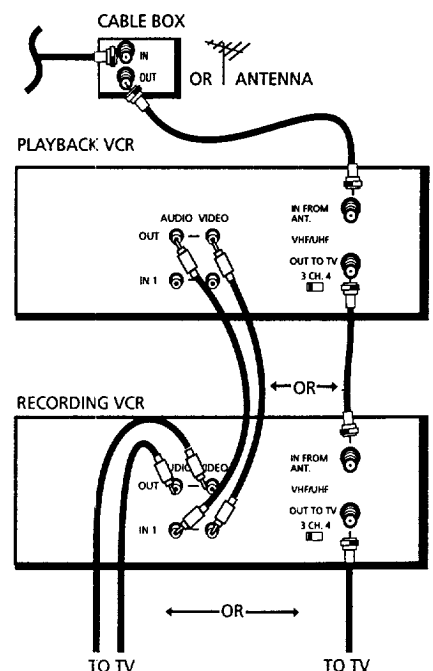
If you have connected your VCR using the audio/video jacks, press INPUT on the *recording VCR's* remote to select the line input. "L" appears in the display.

4. Insert the tape you want to copy into the *playback VCR*. Insert a blank tape with safety tab in place into the *recording VCR*.
5. Press PLAY•PAUSE on the *playback VCR* to begin playback. When you reach the point on the tape or program where you want to begin copying, press PLAY•PAUSE again. You may need to adjust the tracking.
6. Press the RECORD button, then press PLAY•PAUSE, on the *recording VCR*.
7. Press the PLAY•PAUSE buttons on *both VCRs* at the same time to begin copying the tape.
8. To edit segments that you do not want to copy:
  - Press PAUSE on *recording VCR* to pause copying.
  - Locate the next segment you want to copy on *playback VCR* by using FWD, REV, and PLAY•PAUSE, and then press PLAY•PAUSE.
  - Press PLAY•PAUSE on *both VCRs* at the same time to resume copying.
9. Press STOP•EJECT on *both VCRs* when you are finished.

### Caution:

The unauthorized recording of television programs or other materials may infringe the rights of others.

### Two VCR Connection





# PROGRAMMING THE REMOTE

## CONTROL YOUR OTHER COMPONENTS...

The remote can be programmed to control a television and cable box.

It is programmed to control an RCA, GE, or ProScan TV or satellite receiver. Other manufacturer's brands need to be programmed.

## 1 FIRST THINGS FIRST



## 2 SETTING UP THE VCR



## 3 VCR BASICS



## 4 RECORDING



## 5 PROGRAMMING THE REMOTE



## 6 OTHER FEATURES



## 7 CONNECTIONS

# PROGRAMMING THE REMOTE

## ABOUT PROGRAMMING THE REMOTE

The remote can be programmed to control other brands of remote controllable TVs and cable boxes. It is already programmed to operate most RCA, ProScan, and GE televisions and satellite receivers.

## PROGRAMMING THE REMOTE TO CONTROL A TV

If the TV does not turn on when you press the TV button, the remote needs to be programmed.

Follow these steps to program the remote to control your particular TV:

1. Turn on the TV.
2. Find your TV brand and code number(s) on the code list on the next page.
3. Press and hold the TV button on the remote.
4. Enter the two-digit code from the code list.
5. Release TV, and then press CHAN up or down. If the TV responds to the remote commands, the remote is programmed.
6. If the TV does not respond, repeat these steps using the next code in the list.

## OPERATE THE TV

After you set up the remote, see which buttons operate your TV.

1. Point the remote at the TV and press the TV button.  
If the TV does not turn on, press the TV button and then press the POWER button.
2. You may want to experiment to see which buttons operate your TV. Try pressing buttons, such as VOL and MUTE. See "TV Function Buttons" in the *VCR Basic Section* for details.

**This remote may not operate all models of the brands that are shown. Note the difference between the TV and VCR on-screen displays to see which one the remote is operating.**

# PROGRAMMING THE REMOTE

## TV Codes

Akai .....	03	NAD .....	07
AOC .....	06,12	NEC .....	06
Candle .....	06	Panasonic .....	04,08,11
Citizen .....	06	Philco .....	04,06,12
Colortyme .....	06	Philips .....	03,04,06,12
Concerto .....	06	Pioneer .....	06
Curtis Mathes .....	01,06	Portland .....	06,12
Daewoo .....	06,12	ProScan .....	01
Daytron .....	06	Proton .....	06
Electrohome .....	06,12	Quasar .....	11
Emerson .....	06	Radio Shack .....	01,05,13
Envision .....	05,06	RCA .....	01,06,12
Fisher .....	05,08	Realistic .....	05
GE .....	00,01,06,11	Sampo .....	06
Goldstar .....	06,12	Samsung .....	06,09,12
Hallmark .....	06	Sanyo .....	05,08
Hitachi .....	06,14	Sears .....	01,05,06,07, 08,10,12
Infinity .....	04	Sharp .....	06,13
J C Penney .....	00,01,06,09,12	Sony .....	03
JBL .....	04	Soundesign .....	06
Jensen .....	06	Sylvania .....	04,06,12
JVC .....	10,11	Technics .....	11
Kawasho .....	03,06	Techwood .....	06
Kenwood .....	06,12	Teknika .....	06
Loewe .....	04	TMK .....	06
Luxman .....	06	Toshiba .....	05,07,08,09
LXI .....	04,05,07	Universal .....	00
Magnavox .....	04,06,12	Victor .....	10
Marantz .....	04,06	Wards .....	00,01,04,06,12,13
MGA .....	06,12	Yamaha .....	12
Mitsubishi .....	06,12	Zenith .....	02
MTC .....	06		

# PROGRAMMING THE REMOTE

## PROGRAMMING THE REMOTE TO CONTROL A SATELLITE RECEIVER OR CABLE BOX

The remote is programmed to control an RCA, GE, or ProScan satellite receiver. If you ever need to reprogram it to operate the satellite receiver, use code "00".

If you have a cable box with its own remote, you may be able to use the VCR's remote to operate it. This remote may not operate all models of the brands that are shown.

1. Turn on the cable box.
2. Look up your brand and its code number(s) in the code list on the 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.

## OPERATE THE CABLE BOX OR SATELLITE RECEIVER

After you have setup your remote, see which buttons will operate your cable box or satellite receiver.

1. Point the remote at the box or receiver, and press SAT CABLE.  
If it does not turn on, press SAT CABLE and then POWER.
2. You may want to experiment to see which buttons will operate your cable box or satellite receiver. Try pressing buttons, such as CHAN up or down.

### Cable Box Codes

ABC.....	22,46,53,54
Anvision .....	07,08
Cablestar .....	07,08
Diamond .....	56
Eagle.....	07,08
Eastern International .....	02
General Instrument .....	04,05,
.....	15,23,24,25,30,36,46
Hamlin .....	12,13,34,48
Hitachi .....	37,43,46
Jerrold .....	04,05,15,23,
.....	24,25,30,36,45,46,47
Macom .....	37,43
Magnavox.....	07,08,19,21,
.....	26,28,29,32,33,40,41
NSC.....	09
Oak.....	01,16,38
Oak Sigma .....	16
Panasonic.....	03,27,39
Philips.....	07,08,19,21,26,28,
.....	29,32,33,40,41
Pioneer .....	18,20,44
Randtek .....	07,08
RCA.....	00,27,60
Regal .....	12,13
Regency .....	02,33
Samsung .....	44
Scientific Atlanta .....	03,22,35
Signature .....	46
Sprucer .....	27
Starcom .....	46
Stargate 2000 .....	58
Sylvania.....	11,59
Teknika.....	06
Texscan .....	10,11,59
Tocom .....	17,21,49,50,55
Unika.....	31,32,41
Viewstar.....	07,08,19,21,26,
.....	28,29,32,33,40,41
Warner Amex .....	44
Zenith .....	14,42,57



# OTHER FEATURES

## FEATURES TO ENHANCE VCR OPERATION

- Picture Search Options
- Pro-Tect Plus™ Locking
- Tracking
- Time Counter
- On-Screen Displays

**1** FIRST THINGS FIRST



**2** SETTING UP THE VCR



**3** VCR BASICS



**4** RECORDING



**5** PROGRAMMING THE REMOTE



**6** OTHER FEATURES



**7** CONNECTIONS

# OTHER FEATURES

## PICTURE SEARCH OPTIONS

The most basic way to search during playback is using the FWD or REV buttons. This section contains several other options available for searching a tape.

## FORWARD AND REVERSE SEARCH

You can search a tape during playback. Sound is turned off during picture search. Search works best for tapes recorded at the SP or SLP speed.

1. Press FWD to search forward or REV to search in reverse.
2. Press FWD or REV again or press PLAY on the remote (PLAY•PAUSE on the VCR) to return to normal playback.

## SLOW MOTION

You can view a tape during play or play-pause using slow motion. Slow motion works best for tapes recorded at the SP or SLP speed.

1. During play or play-pause, press SLOW+ or – on the remote to begin slow-motion playback. During play-pause, press FWD or REV to begin slow-motion playback.
2. Press SLOW + to increase or SLOW – to decrease the speed of the search.
3. Use TRACKING up or down to remove any streaks from the picture.
4. Press PLAY on the remote (PLAY•PAUSE on the VCR) to return to normal playback.

The VCR switches automatically from slow-motion playback to stop after a few minutes.

## COMMERCIAL SCAN (SEARCH BUTTON)

This is useful for skipping commercials or short program segments.

- Press SEARCH once during playback to advance the tape approximately 60 seconds of recorded material.
- Press SEARCH to cancel commercial scan and return to normal playback.

### Insert Tape:

Don't forget to insert a recorded tape when using the search features.

# OTHER FEATURES

## FRAME ADVANCE

Frame advance lets you view one-stop action frame after another during playback. Frame advance works best for tapes recorded at the SP or SLP speed.

1. Press PAUSE on the remote (PLAY•PAUSE on the VCR) to “freeze” the action.
2. Press F.ADV each time you want to view a frame of the scene.
3. Press PAUSE or PLAY on the remote (PLAY•PAUSE on the VCR) to return to normal playback.

## INDEX SEARCH

The VCR has a “VHS Index Search System” that automatically records an index mark on the tape every time you start a recording. During playback you can locate the program you want to play by the number of index marks or by scanning. The VCR will search forward or reverse from the location you are on the tape.

### To Search:

1. Press STOP.
2. Press SEARCH on the remote to display the INDEX SEARCH menu on the TV screen.
3. If you want to search a certain number of index marks, press two number buttons to enter the number of marks you want to search. Press CLEAR on the remote to correct an entry.
4. Press FWD to search forward or REV to search in reverse. The VCR will locate your index mark and begin playback. If you did not enter a specific index number, the VCR will locate the next index mark and begin playback.
5. Press STOP to stop index searching.

Some index marks may be missed by the VCR:

- A mark too close to your location on the tape.
- The mark at the beginning of a recorded segment of five minutes or less.
- The first index mark on the tape when you start at the beginning of the tape.

```
INDEX SEARCH
PRESS REV OR FWD
TO BEGIN SCANNING
OR
ENTER A SPECIFIC
INDEX NUMBER
--
PRESS SEARCH TO EXIT
```

```
INDEX SEARCH
SEARCHING FOR
INDEX NUMBER 12...
PRESS STOP TO CANCEL
```

```
INDEX SEARCH
SEARCHING FOR
INDEX MARKS...
PRESS STOP TO CANCEL
```

# OTHER FEATURES

## ZERO SEARCH

The zero search feature enables the VCR to quickly return to a counter reading of 0:00:00 anywhere on the tape. This is especially convenient when you want to repeat a segment of the tape several times.

1. Go to the beginning of the program you wish to return to.
2. Press CLEAR to reset the counter to 0:00:00.
3. Continue playing the tape.
4. Press STOP.
5. Press SEARCH on the remote until the ZERO SEARCH menu appears on the TV screen.
6. Press REV to return to 0:00:00 on the tape.
7. Press STOP to stop zero searching.

```
ZERO SEARCH
CURRENT TAPE COUNTER IS
  2:17:25
PRESS REV TO GO TO
  0:00:00
PRESS SEARCH TO EXIT
```

```
ZERO SEARCH
SEARCHING FOR
0:00:00...
PRESS STOP TO CANCEL
```

## PRO-TECT PLUS™ LOCKING FEATURE

To disable the usage of the VCR, or to protect your timer recordings, you can lock the VCR so that the buttons on the VCR or remote won't work.

- To Lock: Press and hold POWER or VCR on the remote for approximately 6 seconds. SAFE appears in the display to let you know the feature is activated.
- To Unlock: Press and hold POWER or VCR on the remote for approximately six seconds.

### Locking Your VCR:

If a timer recording is programmed, make sure your VCR is turned off. Locking your VCR prevents the VCR from being accidentally turned on.

# OTHER FEATURES

## TRACKING

Your VCR has automatic tracking which removes the streaks or snow from the picture. Automatic tracking is activated when you insert a tape or turn on the VCR. Occasionally you may need to manually adjust tracking, especially if the tape was recorded on a different VCR. Just use the TRACKING buttons to remove the streaks or snow. You can also use tracking when you PAUSE a tape to reduce jittering of the picture.

When you manually adjust the picture, automatic tracking is turned off. To turn automatic tracking back on, press both TRACKING buttons on the front of the VCR at the same time, or eject the tape and re-insert it.

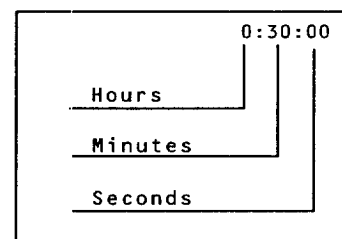
Tracking has no effect during recording--only playback.

## TIME COUNTER

The time counter shows the actual time it takes to record a program or play back a segment of a recorded tape. It helps locate the beginning or end of programs you taped. The time counter resets to 0:00:00 whenever the tape is ejected from the VCR.

For example, if you record a 30-minute program at the beginning of the tape and you want to go to the end of that program to begin another recording, you would:

1. Press INFO **twice** to display the time counter.
2. Press CLEAR to reset the time counter to 0:00:00.
3. Press FWD to forward the tape until the time counter reads 0:30:00.
4. Press STOP. This is the approximate end of the program. (You may want to press PLAY to verify.) Now, you can begin recording at this spot.
5. Press INFO to remove the time counter from the screen and return to the normal display mode.



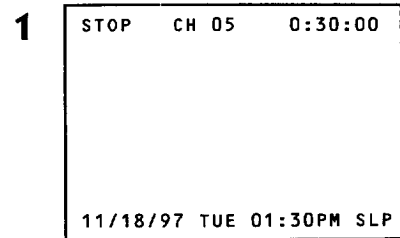
# OTHER FEATURES

## ON-SCREEN DISPLAYS

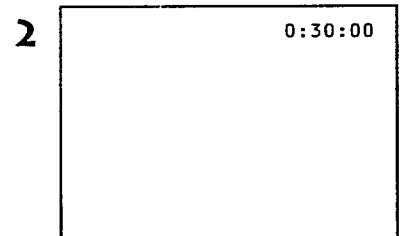
The INFO button shows the status of the VCR (STOP, PLAY, RECORD, etc.), channel number, time counter, date, time, and tape speed on the TV screen. The date and time must be set before they can be displayed.

1. Press INFO to see the on-screen displays.
2. Press INFO again to have only the time counter remain on the screen.
3. Press INFO again to return to the normal display.

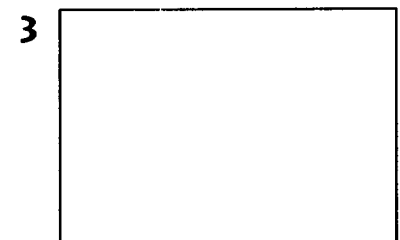
Turning off the VCR also resets the displays.



*On-screen display  
(times out)*



*Time counter only  
(does not time out)*



*Normal display*

# CONNECTIONS

## 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 other components 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 unit.

### 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 or satellite receiver on the top shelf of the stand so heated air rising from it will not flow around other components.

## 1 FIRST THINGS FIRST



## 2 SETTING UP THE VCR



## 3 VCR BASICS



## 4 RECORDING



## 5 PROGRAMMING THE REMOTE



## 6 OTHER FEATURES



## 7 CONNECTIONS

# CONNECTIONS

## CONNECTING YOUR VCR

Refer to these pages to help you connect your VCR.

### JACKS AND CABLES

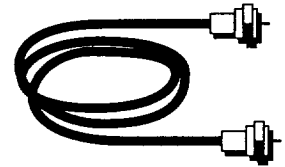
#### RF Jacks and Coaxial Cables (F-type)

The RF jacks provide good picture and mono sound quality, and must be used if audio/video connections are not available for your TV.

These jacks are required for antenna or cable-TV connections. The RF jacks on the VCR are labeled IN FROM ANT. and OUT TO TV. The coaxial cable supplied with your VCR is used to connect the VCR's OUT TO TV jack and your TV's antenna input.



RF Jack



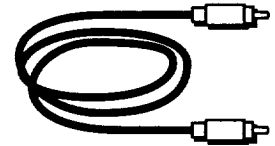
#### Audio/Video Jacks and Cables (RCA-type)

The audio/video jacks provide very good picture and sound quality, and can be used if your TV has audio/video input jacks.

These jacks are used for most audio/video connections between components. The VCR audio/video jacks are color coded (yellow for video and white for audio). If your TV has two inputs for audio (stereo), connect the one labeled mono. If one is not labeled mono, you may need a Y-adapter.



Audio/Video Jack





# CONNECTIONS

## CHOOSING A VCR CONNECTION

There are several different ways to connect your VCR, depending on whether or not you have cable service, and if you have a cable box, and whether some of the channels are scrambled, and maybe you have a satellite receiver along with cable (but no cable box), or a satellite receiver and no cable or...well, you get the picture.

Five connections are described in this section and one of them should provide you with a VCR connection that works.

- TV with RF jack only
- TV with audio/video jacks
- TV with audio/video jacks and cable box to unscramble pay channels only
- TV with RF jack and satellite receiver
- TV with audio/video jacks and satellite receiver

If you need to connect additional components not shown in the diagrams here (and are unsure of how to connect them), refer to the instruction manual that came with that particular component.

## ADVANTAGES OF AUDIO/VIDEO CABLE CONNECTIONS

Using a simple coaxial cable connection gives you good picture quality. If your television has audio/video jacks, I highly recommend using them to get even better picture and sound quality when recording and playing back videotapes. These connections give you more convenient operation by not having to share the TV's antenna signal.

## DON'T FORGET ABOUT THE TV/VCR FEATURE

The TV/VCR switch controls whether the picture signal is coming from the VCR or the TV.

You can change the setting manually by using the TV•VCR button on the remote or you can set the AUTO TV/VCR feature to ON when using only RF ANTENNA connections and OFF when using the AUDIO/VIDEO output jacks--so your TV signal is not interrupted when the VCR is turned on.

# CONNECTIONS

## TV WITH RF JACK ONLY

### This connection assumes:

- You are connecting antenna, cable, or cable box system.
- Your television has only an RF input jack.

### This connection provides:

- Mono sound playback from VCR.
- Record one channel while watching another (except when using a cable box for all channels).

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

- (1) coaxial cable for cable or antenna connection; (2) for cable box

### To connect:

1. Connect cables as shown.
2. Return to *First Things First*, then follow the steps.

## Using This Connection

Tune your TV to channel 3 or 4, whichever one you selected with the 3 CH. 4 switch on the back of the VCR.

### AUTO TV/VCR Setting:

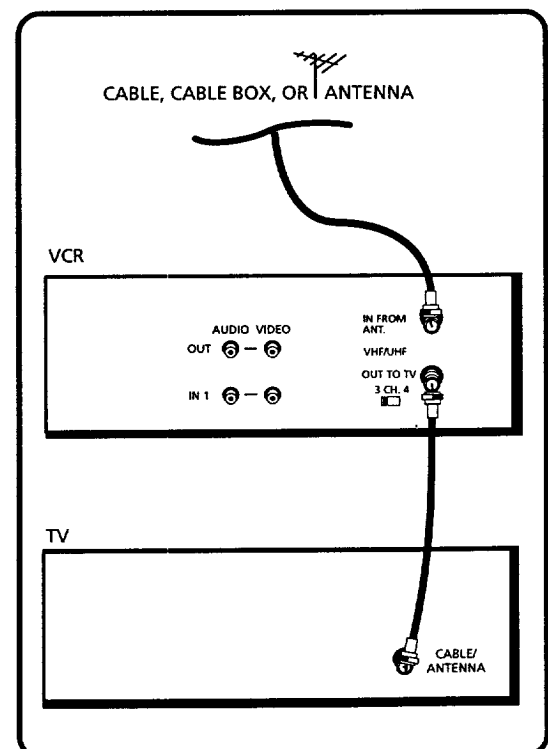
- Set the AUTO TV/VCR feature to ON.

### To play a tape:

1. Insert a tape.
2. If necessary, press PLAY.

### To record one program and watch another:

1. Begin recording a program using one of the recording features.
2. Press the TV•VCR button and select a different channel on the TV.



# CONNECTIONS

## TV WITH AUDIO/VIDEO JACKS

### This connection assumes:

- You are connecting an antenna, cable, or cable box system.
- Your television has audio/video jacks.

### This connection provides:

- Mono sound playback from VCR.
- Record one channel while watching another (except when using a cable box for all channels).

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

- (1) coaxial cable for cable/antenna connection; (2) for cable box
- (2) audio/video cables

### To connect:

1. Connect cables as shown.
2. Return to *First Things First*, then follow the steps.

## Using This Connection

Tune your TV to its video input channel. Use of TV•VCR button is not required.

### AUTO TV/VCR Setting:

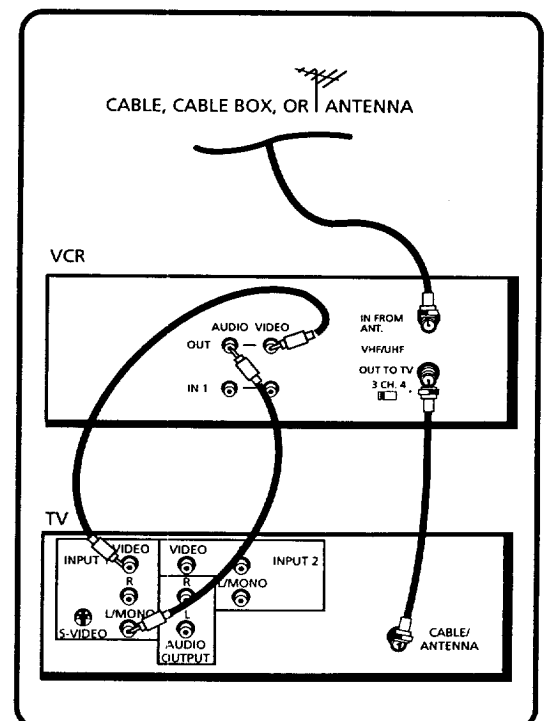
- Set the AUTO TV/VCR feature to OFF.

### To play a tape:

1. Insert a tape.
2. If necessary, press PLAY.

### To record one program and watch another:

1. Begin recording a program using one of the recording features.
2. Select a different channel on the TV.



# CONNECTIONS

## TV WITH AUDIO/VIDEO JACKS AND CABLE BOX TO UNSCRAMBLE PAY CHANNELS ONLY

This connection assumes:

- You are using a cable box only to unscramble premium channels.
- Your TV has audio/video input jacks.

This connection provides:

- Mono sound playback from VCR.
- Recording a scrambled or unscrambled channel through the cable box while watching an unscrambled channel.

To use this connection, you must have:

- (3) coaxial cables
- (2) audio/video cables
- (1) splitter

To connect:

1. Connect cables as shown.
2. Return to *First Things First*, then follow the steps.

### Using This Connection

Tune your TV to its video input channel. Use of TV•VCR button is not required.

**AUTO TV/VCR Setting:**

- Set the AUTO TV/VCR feature to OFF.

**To play a tape:**

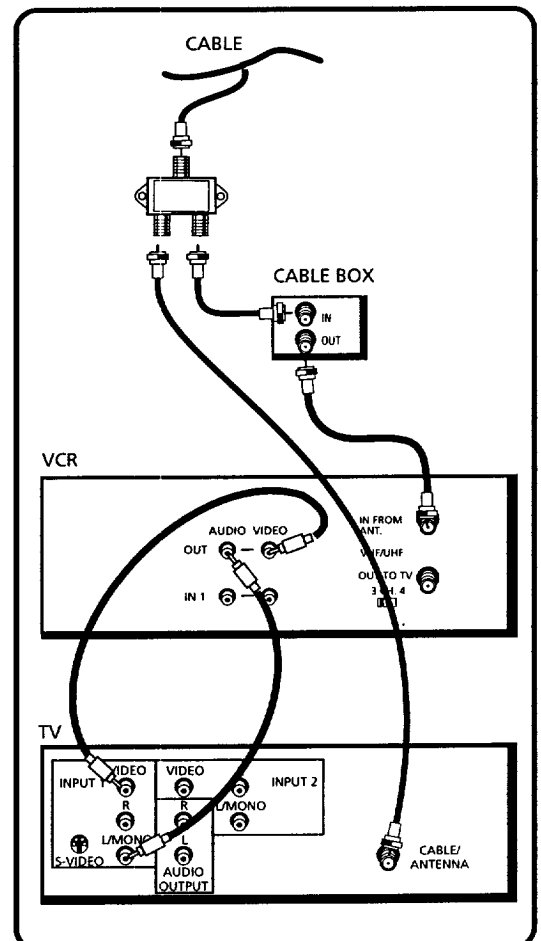
1. Insert a tape.
2. If necessary, press PLAY.

**To record a scrambled or unscrambled program and watch another unscrambled:**

1. Begin recording a scrambled or unscrambled program through the cable box using one of the recording features.
2. Select an unscrambled channel on the TV.

All scrambled channels must be viewed through the VCR.

For Cable Box Setup, select ALL CHANNELS. See page 9.



# CONNECTIONS

## TV WITH RF JACK AND SATELLITE RECEIVER

This connection assumes:

- You have a basic satellite system.
- Your TV does not have audio/video input jacks.

This connection provides:

- Mono sound playback from VCR.
- Recording from a satellite receiver.
- Recording one off-air or cable channel while watching another.

To use this connection, you must have:

- (4) coaxial cables, (3) audio/video cables, and (1) Y-adapter

To connect:

1. Connect cables as shown.
2. Return to the *First Things First Section*, then follow the steps.

## USING THIS CONNECTION

- Tune your TV to channel 3 or 4, whichever one you selected with the 3 CH.4 switch on the back of the VCR.
- To record and watch off-air or cable, tune your VCR to channel 3 or 4 whichever one you selected with the CH3/CH4 switch on the back of the receiver. Turn off receiver.
- To watch and/or record from the satellite receiver, tune your VCR to its line input ("L" appears in display).

**AUTO TV/VCR Setting:**

- Set the AUTO TV/VCR feature to ON.

**To play a tape:**

1. Insert a tape.
2. If necessary, press VCR and then PLAY.

**To record one off-air or cable program and watch another**

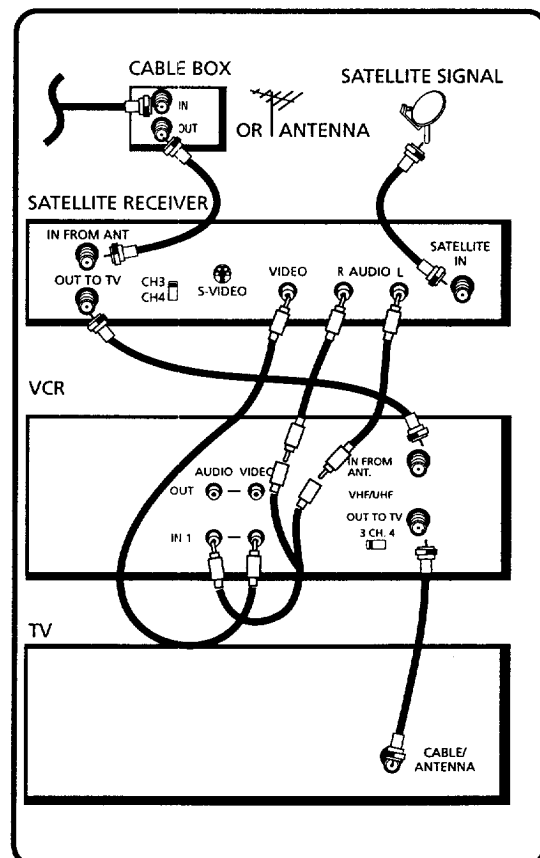
1. Turn off the satellite receiver and begin recording a program using a recording feature.
2. Press TV•VCR and select a different channel on the TV.

**To record a satellite receiver program**

1. Turn on the satellite receiver, tune the VCR to its line input, and begin recording a program using a recording feature.

### Caution

The unauthorized recording of satellite broadcasts, television programs, or other materials may infringe the rights of others.



# CONNECTIONS

## TV WITH AUDIO/VIDEO JACKS AND SATELLITE RECEIVER

This connection assumes:

- You have an advanced satellite system.
- Your TV has audio/video input jacks.

This connection provides:

- Stereo sound from satellite receiver and mono playback from VCR.
- Recording from receiver while watching cable or off-air channel.
- Recording one cable or off-air channel while watching another.

To use this connection, you must have:

- (4) coaxial cables, (5) audio/video cables, (1) Y-adaptor, and (1) splitter
- (1) S-VHS cable (optional connection)

To connect:

1. Connect cables as shown.
2. Return to the *First Things First*, then follow the steps.

## USING THIS CONNECTION

- Tune your TV to its video input to record (or watch) the VCR or satellite receiver.
- To record from the satellite receiver, tune your VCR to its line input ("L" appears in display).

**AUTO TV/VCR Setting:**

- Set the AUTO TV/VCR feature to OFF. Use of TV•VCR button is not required.

**To play a tape:**

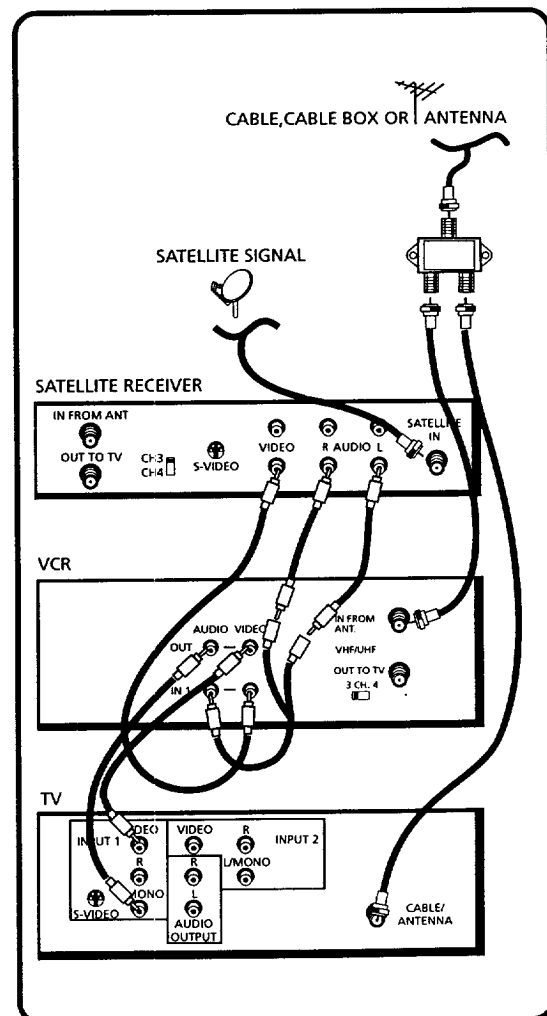
1. Insert a tape
2. If necessary, press VCR and then PLAY.

**To record one off-air or cable program and watch another**

1. Begin recording a program using a recording feature.
2. Select a different channel on the TV.

**To record a satellite receiver program and watch a cable or off-air channel**

1. Turn on the satellite receiver, tune the VCR to its line input, and begin recording a program using a recording feature.
2. Select a different channel on the TV.



# APPENDIX A: REFERENCE

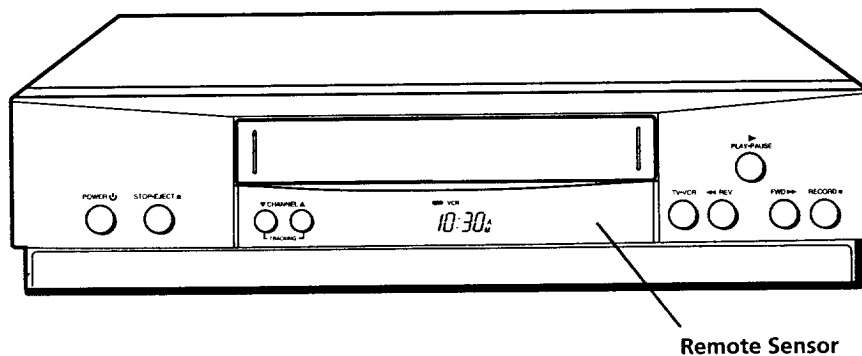
**This section gives you some additional information about the VCR, including a description of the unit's controls and display.**

**You also will find a Troubleshooting Tips section in this Appendix, which might help to resolve some of those simple problems.**

**Finally, this section contains your warranty information.**

# APPENDIX A: REFERENCE

## FRONT PANEL



**CHANNEL•TRACKING Up or Down** Selects next higher or lower channel in the VCR's channel memory. Adjusts tracking when a tape is playing.

**FWD** Forwards the tape when the VCR is stopped. Searches the picture forward during playback. Starts slow motion during play-pause.

**PLAY•PAUSE** Plays a tape. Pauses action for viewing during playback. Pauses recording to prevent recording of unwanted scenes.

**POWER** Turns the VCR on or off.

**RECORD** Starts VCR recording. Used for express recording.

**Remote Sensor** Receives signals from the remote control. Aim the remote at this sensor.

**REV** Rewinds the tape when the VCR is stopped. Searches the picture in reverse during playback. Starts slow motion during play-pause.

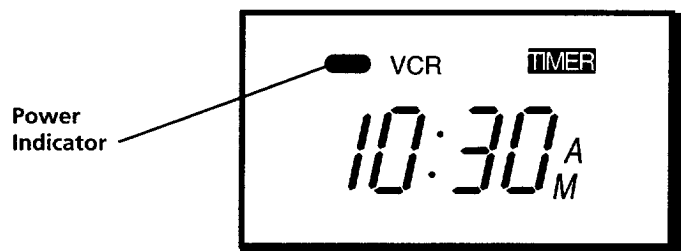
**STOP•EJECT** Stops the normal functions such as record, playback, rewind, fast-forward, or pause. Ejects the tape when the VCR is stopped.

**TV•VCR** Switches the picture signal so that it either comes from the VCR or the TV.



# APPENDIX A: REFERENCE

## DISPLAY PANEL



**Power Indicator** Lights when the VCR is turned on. Flashes during a timer or express recording.

### **Time, Channel Number, Line Input Indicator (L), Status Displays**

**Time** The current time appears. Only an AM indicator appears with the time. There is no indicator for PM.

**Channel Number or Line Input Indicator** The channel number appears when the VCR is tuned to a channel. The line indicator (L) appears when the line input is selected.

**Status Indicators** Show what the VCR is doing.

- **FF** Fast forward
- **PLAY** Playback
- **PLAY** Flashes during play-pause and search features
- **REC** Record
- **REW** Rewind
- **SAFE** Pro-Tect Plus turned on
- **STOP** A tape is stopped

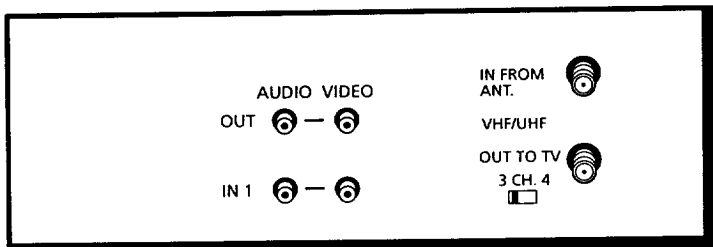
**TIMER** Lights when VCR is turned off and set for timer recording. Flashes when timer recording is set and there is no cassette in the VCR.

**VCR Indicator** (Applies only if the VCR viewing channel is 3 or 4). Press the TV•VCR button to turn on or off.

- VCR indicator on: Picture from VCR.
- VCR indicator off: Picture from TV channel.

# APPENDIX A: REFERENCE

## BACK PANEL



**3 CH. 4 Switch** Selects the channel to which you will tune the TV to see the VCR picture if you connect the VCR using one of the basic hookups.

**AUDIO and VIDEO IN 1 Jacks** Receives signals from another component, like a VCR or camcorder, when it is connected to these jacks. Use INPUT on the remote to select.

**AUDIO and VIDEO OUT Jacks** Sends signals from VCR to another component, like a TV or VCR, when it is connected to these jacks.

**IN FROM ANT. Jack** Receives a signal from an antenna or cable system when attached.

**OUT TO TV Jack** Passes signal to TV using the cable supplied.

# APPENDIX A: REFERENCE

## TROUBLESHOOTING TIPS

### No power

- Check to make sure it is plugged into an operating outlet.
- Check to make sure your connections are correct.

### VCR does not respond to remote

- Press VCR to set remote to control the VCR.
- Check to make sure there are no objects between the VCR and remote.
- The batteries may need changing.
- Make sure the REMOTE VCR1/VCR2 setting is set to VCR1 so the remote that came packed with your VCR can operate it.
- Remove batteries and hold number button 1 for at least 60 seconds to drain the microprocessor inside the remote. Release number 1 and replace the batteries.
- Remove all batteries for approximately 12 hours. Then replace batteries.

### Remote no longer controls an RCA, ProScan, or GE TV

- Press TV to set remote to control a compatible TV.
- Check to make sure the remote is programmed to control an RCA, ProScan, or GE TV.

### Remote no longer controls a compatible TV, cable box, or satellite receiver

- Press TV or SAT CABLE to set remote to control the corresponding component.
- Check to make sure there are no objects between the component and remote.
- The batteries may need changing.
- Reprogram remote after batteries have been changed.
- Remove batteries and hold number button 1 for at least 60 seconds to drain the microprocessor inside the remote. Release number 1, replace the batteries, and (if necessary) reprogram the remote.
- Remove all batteries for approximately 12 hours. Then replace batteries and (if necessary) reprogram the remote.

### Poor or no picture for normal TV viewing

- Check to make sure the VCR indicator is off.
- Check to make sure the TV is switched to an active channel.
- Check to make sure the antenna connections are secure and correct.

### Snowy or no picture during playback

- Press TV•VCR to turn VCR indicator on.
- Check TV channel selected (3 or 4) to make sure it matches the channel selected with 3 CH. 4 switch on back of VCR.

# APPENDIX A: REFERENCE

- Check to make sure the TV's fine tuning is correct for the channel you have selected.
- Check video cable connections between VCR and TV monitor.
- Check to make sure the TV monitor is set to video input.
- Try another tape.
- Some snow/streaks are normal during search, stop action, frame advance, and slow-motion playback.

## **Streaks in picture during normal playback**

- Press one of the TRACKING buttons to move streaks up or down for the best picture.
- Check to make sure the tape is of good quality and not worn out.

## **Time counter not working or time counter not working in search modes**

- The time counter does not advance during unrecorded portions of tape. When an unrecorded segment of tape is encountered, the time counter will hold its count until recorded material is detected again.
- A minus (-) will appear in front of the time if you rewind the tape farther back than a counter reading of 0:00:00.

## **Will not record or play**

- Check to make sure there is a tape in the VCR.
- Try ejecting and reinserting the cassette.
- Check to make sure the tape is not broken.
- Check to make sure the VCR is not in pause mode. Press PAUSE or PLAY on the remote (PLAY•PAUSE on the VCR) to return to normal playback.
- Check the ProTect Plus™ feature.

## **Will not record**

- Check to make sure the safety tab is intact.
- Check to make sure the VCR is not in the line mode. Press INPUT on the remote.

## **Rewind does not operate**

- Check to make sure the tape is not already rewound.

## **VCR Plus+ or timer recording not made or wrong program recorded**

- Check to make sure the correct VCR Plus+ code is entered.
- Check to make sure the cable box was turned on when recording was to begin.
- Check to make sure the program was entered correctly (wrong channel or times).
- Power interruption. Reset the clock.
- Check to see if time and date are correct -- including AM/PM.
- Check to make sure the program did not exceed the tape's length or the tape was not rewound beforehand.
- Check to make sure the VCR was turned off at the time recording was to start.

# APPENDIX A: REFERENCE

- Check to make sure there was a tape in the VCR and the cassette's safety tab was intact.
- VCR ejects cassette when the end of the tape is reached during a timer recording.
- Check to make sure VCR Plus+ setup was completed correctly.

## **Clock shows incorrect time or date**

- Power interruption. Automatic clock set was not turned on or did not work properly. Check time zone and daylight-savings settings.
- Make sure VCR or cable box is tuned to channel carrying XDS information.

## **Time did not adjust for daylight-saving time**

- Check to make sure daylight-saving feature is set correctly.

## **VCR makes noise when stopped**

- VCR is removing tape from heads. This is normal. The head cylinder inside the VCR will continue to rotate for a few minutes after you put the VCR in the stop mode.

## **Will not AUTO CHANNEL SEARCH active channels correctly**

- Check to make sure the antenna connections are secure and correct.
- Check to make sure the SIGNAL TYPE: CABLE/ANTENNA feature is set correctly.
- If DETECT AUTOMATICALLY was selected for the SIGNAL TYPE in the AUTO CHANNEL SEARCH menu, try using either CABLE TV or ANTENNA instead.
- May not be necessary if using a cable box for all channels. Contact your local cable company for more information.

## **Tape plays back in slow motion**

- Press PLAY to return to normal playback.

## **Cannot select channels over 69**

- Cable channels over 69 can only be selected if SIGNAL TYPE: CABLE/ANTENNA feature is set to CABLE.

## **Cassette with safety tab removed does not start to play automatically**

- Check to make sure the AUTO PLAY ON/OFF feature is set to ON.

## **TIMER indicator flashes**

- Check to make sure there is a cassette in the VCR when a timer recording is set.

## **Time counter disappears during searching**

- This is normal.

## **On-screen menus appear in English, French, or Spanish**

- Check LANGUAGE feature.

# APPENDIX A: REFERENCE

## SPECIFICATIONS

<b>Format:</b>	VHS
<b>Record/Playback System:</b>	Video: 4-head Audio: Mono record/playback
<b>Video Signal System:</b>	EIA standard: NTSC color
<b>Antenna:</b>	75-ohm external VHF/UHF combined antenna terminal
<b>Tuner:</b>	USA: 181 channels capability* (125 cable channels)  Canada: 178 channels capability* (122 cable channels)
<b>Type:</b>	AutoProgramming frequency synthesis
<b>Power Requirement:</b>	120V AC, 60 Hz
<b>Power Consumption:</b>	18 watts
<b>Dimensions:</b>	3.7 inches high (93 mm) 15 inches wide (380 mm) 11.9 inches deep (300 mm)
<b>Weight:</b>	7.5 pounds (3.4 kg)
<b>Storage Temperature Range:</b>	- 22°F to +149°F (-30°C to +65°C)
<b>Operating Temperature Range:</b>	+41°F to +104°F (+5°C to +40°C)

\*Check your cable company's compatibility requirements.

## CLEANING THE VCR

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your VCR. Remove dust from the ventilation holes on the top, back, sides, and bottom of the cabinet.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

Specifications are subject to change.

# APPENDIX A: REFERENCE

## LIMITED WARRANTY

### What your warranty covers:

- Any defect in material or workmanship.

### For how long after your purchase:

- Ninety days for labor charges.
- One year for parts.

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 RCA VCR Servicenter the labor charges to repair your VCR.
- Pay any Authorized RCA VCR Servicenter for the new or, at our option, refurbished replacement parts required to repair your VCR.

### How you get service:

- Take your VCR to any Authorized RCA VCR Servicenter. To identify your nearest Authorized RCA VCR Servicenter, ask your dealer, look in the Yellow Pages, or call 1-800-336-1900.
- Show the service technician your evidence of purchase date.
- Pick up your VCR when repairs are completed.

### What your warranty does not cover:

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

### Product Registration:

- Please complete and mail the Product Registration Card packed with your VCR. 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 VCR outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

# INDEX

3 CH. 4 switch 48, 51, 56

## A

Accessing menus 5  
Add or remove channels 12  
ADD/REMOVE CHANNELS screen 12  
Audio/video jacks 47, 49, 50, 52, 56  
Auto channel search 10  
AUTO CHANNEL SEARCH menu 11  
Auto clock set feature 13  
AUTO CLOCK SET screen 13  
Auto play feature 18, 24  
AUTO TV/VCR feature 19, 47, 48, 49, 51, 52  
Automatic rewind 24  
Automatic tracking 24

## B

Back panel 56  
Basic recording 25  
Basics, learn the 21  
Batteries  
    installing in the remote 4

## C

Cable box codes 38  
Cable box setup 9  
CABLE BOX SETUP menu 10  
Cables 46  
Cables, positioning 45  
Cables, types of 46  
CHAN buttons 22, 36, 38  
CHANNEL buttons 54  
Channel number display 55  
Channel, viewing 5  
Channels, add or remove 12  
Channels list, VCR 10  
CHANNELS menu 9, 11, 12, 15, 30  
Choosing a VCR connection 47

Cleaning the VCR 60  
CLEAR button 22, 31, 32, 41, 42, 43  
Clearing programs 32  
Commercial scan feature 40  
Component buttons 22, 23  
Connections 45  
    audio/video cable 47  
    choosing 47  
    TV with audio/video jacks 49  
    TV with audio/video jacks and cable box to unscramble pay channels only 50  
    TV with audio/video jacks and satellite receiver 52  
    TV with RF jack and satellite receiver 51  
    TV with RF jack only 48  
    two VCRs 33

Contents 1

Controls

    back panel 56  
    front panel 54

Copying and editing tapes 33

## D

Date and time setting 12  
Displays  
    on-screen 44

## E

Eject, tape 25  
Express recording 28

## F

F.ADV button 22, 23, 41  
FF button 23  
First setup 3  
First things first 3  
Frame advance 41  
Front panel controls 54  
FWD button 22, 24, 33, 40, 41, 43, 54



# INDEX

## G

GO BACK button 22

## I

Important information 2  
IN FROM ANT. jack 56  
Index search feature 41  
INDEX SEARCH menu 41  
INFO button 22, 23, 43, 44  
INPUT button 22, 23, 29, 33

## J

Jacks, types of 46

## L

L (line input indicator) 55  
Language feature 8  
LANGUAGE menu 9  
Limited warranty 61  
Line input indicator (L) 55  
Locking feature 42

## M

MENU button 9, 10, 12, 15, 17, 23, 30, 31, 32  
Menus, accessing 5  
MUTE button 23

## N

Number buttons 23

## O

On-screen displays 44  
OUT TO TV jack 56  
Overheating 45

## P

PAUSE button 23, 24, 25, 33, 41, 43  
Picture search options 40  
PLAY button 23, 24, 40, 41, 48, 49, 51, 52  
PLAY•PAUSE button 24, 25, 33, 40, 41, 54  
Playing a Tape 24  
POWER button 22, 23, 24, 36, 38, 42, 54  
Power indicator 55  
Power surges 45  
PREFERENCES menu 17, 18  
Pro-Tect Plus™ locking feature 42  
Problem solving 57  
Programming the remote 35  
    to operate a cable box 38  
    to operate a satellite receiver 38  
    to operate TVs 36  
PROGRAMS OVERLAP message 29, 31

## Q

QuickSet guide 8

## R

RECORD button 23, 25, 28, 33, 54  
Recording  
    basic copying and editing tapes 33  
    express 28  
    speeds 25  
    timer 29  
Recording, basic 25  
Remote  
    buttons 22  
    installing batteries 4  
    sensor 54  
REMOTE VCR1/VCR2 option 18  
Remove or add channels 12  
REV button 23, 24, 33, 40, 41, 42, 54  
Review programs screen 32  
Reviewing programs 32  
Rewind, automatic 24

# INDEX

## S

- Safety tab 25
- SAT CABLE button 38
- Satellite receiver codes 38
- Search
  - commercial scan 40
  - forward 40
  - frame advance 41
  - index 41
  - reverse 40
  - slow motion 40
  - zero 42
- SEARCH button 23, 40, 41, 42
- Sensor, remote 54
- SET DAYLIGHT SAVINGS screen 14
- Set time and date manually 14
- SET TIME ZONE screen 13
- Set up
  - cable box 9
  - first 3
  - language 8
  - VCR 7
- Signal type
  - selecting 12
- Signal type, changing 12
- SLOW button 23, 40
- Slow motion playback 40
- Solving problems 57
- Specifications 60
- Speed
  - LP 25
  - SLP 25
- SPEED button 23, 25, 28, 31
- Speeds, recording 25
- Status indicators
  - FF (fast forward) 55
  - PLAY 55
  - REC (record) 55
  - REW (reverse) 55
  - SAFE 55
  - STOP 55
- STOP button 23, 24, 25, 28, 32, 41, 42, 43
- STOP•EJECT button 24, 25, 28, 32, 33, 54
- Stopping a timer recording 32

## T

- Tab, safety 25
- Table of contents 1
- Tape eject 25
- Tape, playing a 24
- Tape speeds 25
- Time and date setting 12
- Time counter 43
- Time display 55
- Time setting
  - set daylight saving 14
  - set time zone 13
- TIMER indicator 29, 31, 55
- Timer recording 29
  - stopping 32
- TIMER RECORDINGS menu 29, 32
- Tips, troubleshooting 57
- TRACKING buttons 23, 40, 43, 54
- Tracking feature 43
- Troubleshooting tips 57
- TV button 36
- TV codes 37
- TV, programming the remote to control 36
- TV•VCR button 19, 23, 47, 48, 49, 51, 52, 54

## V

- VCR
  - cleaning 60
  - VCR channels list 10
  - VCR function Buttons 22–24
  - VCR indicator 55
  - VCR MAIN MENU 9, 10, 12, 15, 17, 29, 30, 32
  - VCR Plus+
    - channel list 30
    - PlusCode number 31

# INDEX

setting up channels 15  
using 30  
worksheet for channels 17  
VCR PLUS+ CHANNEL LIST menu 17, 30  
VCR Plus+ menu 30  
VCR, setting up 7  
Viewing channel 5  
VOL buttons 24

## W

Warranty, limited 61

## Z

ZERO search feature 42  
ZERO SEARCH menu 42

If your VCR needs service, please contact your dealer or the nearest Servicenter from the yellow pages. 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.

 **THOMSON CONSUMER ELECTRONICS**  
10330 North Meridian Street  
Indianapolis, IN 46290

©1997 Thomson Consumer Electronics, Inc.  
Trademark(s)® Registered  
Marca(s) Registrada(s)  
Printed in Japan  
**TOCOM 15226120**  
VQTS3339 (A)