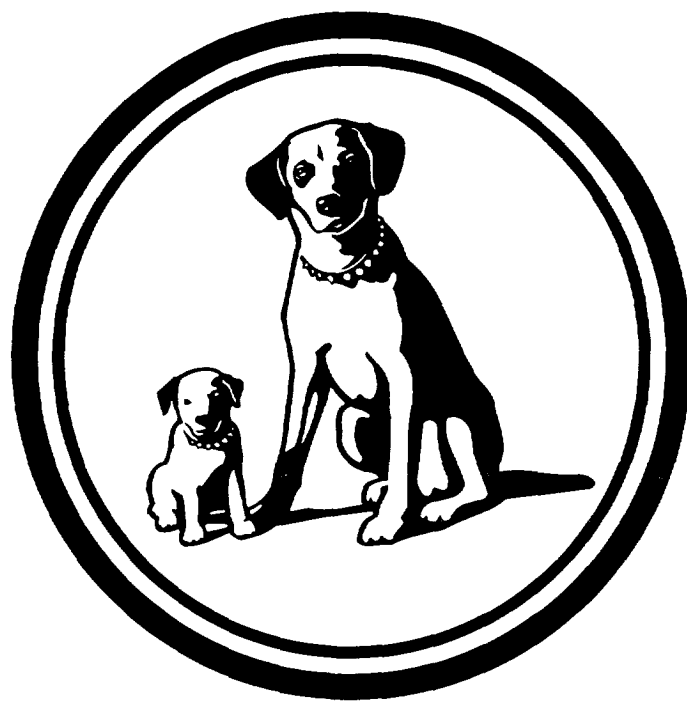


# **RCA**

## video cassette recorder user's guide

VR691HF



# 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.



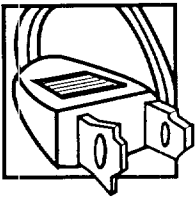
This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



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. **VR691HF** \_\_\_\_\_

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

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

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

# TABLE OF CONTENTS

<b>First Things First</b> .....	<b>3</b>
<b>Setting up the VCR</b> .....	<b>9</b>
Using the QuickSet Guide .....	10
Using the Menus to Set Up Features .....	10
Language .....	10
Digital Satellite System Setup .....	11
Cable Box Setup .....	13
VCR Channels List .....	15
To Auto Channel Search .....	15
To Change the Signal Type .....	16
To Add or Remove Channels .....	16
Time and Date .....	17
Auto Clock Set Feature .....	17
Set the Time Zone .....	17
Set Daylight-Saving Time .....	18
Set the Time and Date Manually .....	19
VCR Plus+ Channels .....	20
Additional Set-Up Features in the PREFERENCES Menu .....	22
Remote VCR1/VCR2 Option .....	22
Auto Play .....	23
Auto TV/VCR .....	23
Front Panel (VCR Display) .....	24
Tape Speed .....	24
<b>VCR Basics</b> .....	<b>25</b>
Remote Buttons .....	26
Component Buttons .....	26
VCR Function Buttons .....	26
TV Function Buttons .....	28
Playing a Tape .....	28
Automatic Rewind .....	29
Tape Eject .....	29
Recording .....	29
Check the Safety Tab .....	30
<b>Recording</b> .....	<b>31</b>
Recording Features .....	32
Express Recording .....	32
Timer Recording .....	33
Timer Recording with VCR Plus+ .....	34
Stopping a Timer Recording .....	36
Reviewing and Clearing Programs .....	36
Recording Broadcast Stereo TV or SAP (Second Audio Program) .....	36
Recording Audio Only .....	37
Using Two VCRs for Copying and Editing Tapes .....	38
Using Dual Remote with AutoEdit .....	39

# TABLE OF CONTENTS

<b>Programming the Remote</b> .....	<b>41</b>
To Control a TV .....	42
To Control a Satellite Receiver or Cable Box .....	44
To Control an Auxiliary Component .....	45
To Control a Laser Disc Player or DVD Component .....	46
<b>Other Features</b> .....	<b>47</b>
COMMERCIAL▶▶ADVANCE .....	48
MOVIE▶▶ADVANCE .....	51
Picture Search Options .....	53
Forward and Reverse Search .....	53
Slow Motion .....	54
Frame Advance .....	54
Index Search .....	54
Zero Search .....	55
Blank Search .....	56
Pro-Tect Plus™ Locking Feature .....	56
Tracking .....	56
Auto Repeat .....	57
Time Counter .....	58
On-Screen Displays .....	58
Audio Set-Up Features .....	59
Reception .....	59
Tape Playback .....	60
<b>Connections</b> .....	<b>61</b>
Things to Know Before Connecting Components .....	61
Connecting Your VCR .....	62
Jacks and Cables .....	62
Choosing a VCR Connection .....	63
Advantages of Audio/Video Cable Connections .....	63
Don't Forget About the Auto TV/VCR Feature .....	63
TV with RF Jack Only .....	64
TV with Audio/Video Jacks .....	65
TV with Audio/Video Jacks and Cable Box to Unscramble Pay Channels Only .....	66
TV with RF Jack and Satellite Receiver .....	67
TV with Audio/Video Jacks and Satellite Receiver .....	68
<b>Appendix A: Reference</b> .....	<b>69</b>
Front Panel .....	70
Display Panel .....	71
Back Panel .....	72
Troubleshooting Tips .....	73
Questions and Answers About COMMERCIAL▶▶ADVANCE .....	77
Specifications .....	78
Cleaning the VCR .....	78
Limited Warranty .....	79
<b>Index</b> .....	<b>80</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

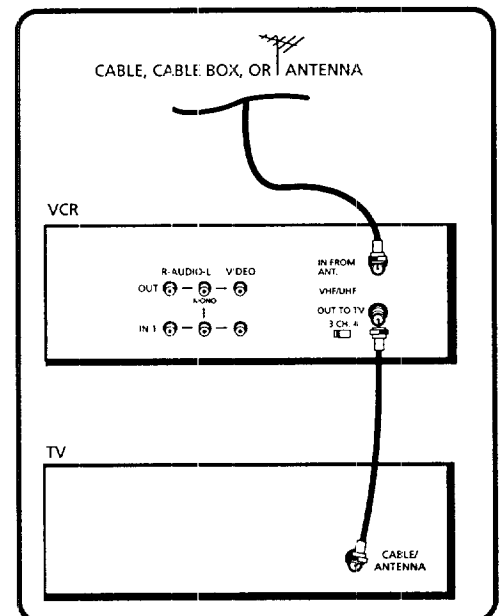
Follow these steps whenever you need to install or change the batteries in your VCR remote.

1. Remove the cover of the battery compartment.
2. Place the 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.

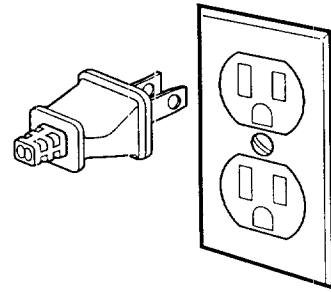
If you have a TV with AUDIO/VIDEO jacks, use the jacks for a better connection. Refer to the *Connections* section, toward the back of the manual.



# 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 3 CH. 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.

### VCR Viewing Channel

When using the IN FROM ANT. and OUT TO TV 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

## 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:

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 Languages
0 Exit
```

2. Press 6 to display the PREFERENCES menu.

```
PREFERENCES
1 Remote Control: VCR1
2 Auto Play: ON
3 Auto TV/VCR: ON
4 Front Panel: AUTO
5 Tape Speed: SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit
```

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

```
PREFERENCES
1 Remote Control: VCR1
2 Auto Play: OFF
3 Auto TV/VCR: ON
4 Front Panel: AUTO
5 Tape Speed: SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit
```

See *Additional Set-Up Features* for detailed information about the Auto Play feature.



# FIRST THINGS FIRST

## 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 Digital Satellite System
- 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 VCRI/VCR2 feature
- Set the Auto Play feature
- Set the Auto TV/VCR feature
- Set the Front Panel Brightness feature
- Set the Tape Speed feature

## 1 FIRST THINGS FIRST



## 2 SETTING UP THE VCR



## 3 VCR BASICS



## 4 RECORDING



## 5 PROGRAMMING THE REMOTE



## 6 OTHER FEATURES

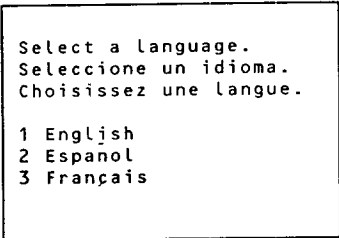


## 7 CONNECTIONS

# 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.



Select a Language.  
Seleccione un idioma.  
Choisissez une langue.

1 English  
2 Espanol  
3 Français

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 3 CH. 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 IN FROM ANT. and OUT TO TV jacks.
- Check your connections.

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

If you ever need to manually enter setup.

1. Press MENU to display the VCR MAIN MENU.
2. Press 5 to display the Setup menu.

## USING THE MENUS 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.

#### QuickSet Guide

If you choose not to use the QuickSet Guide to set up the VCR, you can exit now and return to the guide through Setup in the VCR MAIN MENU.

#### 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 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

2. Press 8 to select 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).

## DIGITAL SATELLITE SYSTEM SETUP

With this setup, the VCR turns on an RCA, ProScan, or GE digital satellite receiver and tunes it to the desired channel at the start time of a timer recording. For other brands, the VCR tunes the receiver to the desired channel only if the receiver is turned on.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

2. Press 4 to display CHANNELS menu.

```
CHANNELS
1 Auto Channel Search
2 Add/Remove Channels
3 Signal Type: CABLE
4 VCR Plus+ Channel List
5 Cable Box Setup
6 DSS Setup
0 Exit
```

# SETTING UP THE VCR

3. Press 6 to select DSS SETUP.

```
DSS SETUP

On what channel does
the VCR receive signals
from the DSS receiver?

--

Enter 01-125 or INPUT
Press MENU to cancel
```

4. Enter the output channel of your digital satellite receiver, usually 03, 04, or video line input and press MENU. The VCR confirms that it receives all DSS signals on the specified channel.

```
DSS SETUP

The VCR will now
receive all signals
from the DSS receiver
on channel 03.

Press MENU to continue
```

5. Press MENU and enter the code for your digital satellite receiver from the Digital Satellite Receiver Codes list.

```
DSS SETUP

Enter the code for your
DSS receiver from the
list in your User's
Manual

00

Press CLEAR to correct
Press MENU to continue
```

6. Turn on your digital satellite receiver and tune it to channel 100 and then press MENU. Follow the on-screen directions.

```
DSS SETUP

Please turn on your
DSS Receiver and tune
it to channel 100.

Press MENU to continue
```

Once you have completed the setup, the VCR confirms the DSS Setup is completed or canceled.

## Digital Satellite Receiver Codes

GE .....	00
Panasonic .....	01
ProScan .....	00
RCA .....	00
Toshiba .....	02
Sony .....	03

The VCR may not be able to control all models of the brands listed.

# SETTING UP THE VCR

## CABLE BOX SETUP

This setup applies only when all channels are received through the cable box. There are two options:

- The first sets up the VCR for the output channel of the cable box signal.
- The second sets up the VCR for a remote-controllable cable box so it can control the cable box by changing channels for timer or VCR Plus+ recordings. Position the remote-controllable cable box on top of the VCR as shown in the *Connections* section.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 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
6 DSS Setup
0 Exit
```

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
```

### 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

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 the VCR will now receive all signals on the designated channel.

5. Press MENU and select whether your cable box is remote controllable.

CABLE BOX SETUP  
Can your cable box be operated with a remote control?

1 Yes  
2 No

6. If your cable box is remote-controllable, turn it on and tune it to channel 2. Press MENU to continue.

CABLE BOX SETUP  
Please turn on your Cable Box and tune it to channel 2.

Press MENU to continue

7. Enter the code for your cable box from the cable box code list.

CABLE BOX SETUP  
Enter the code for your cable box from the list in your User's Manual.

--

Press MENU to cancel

## Cable Box Codes

ABC .....	22,46
Anvision .....	07,08
Cablestar .....	07, 08
Eagle .....	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
Regal .....	12, 13
Regency .....	02, 33
Samsung .....	44
Scientific Atlanta .....	03, 22, 35
Signature .....	46
Sprucer .....	27
Starcom .....	46
Sylvania .....	11
Teknika .....	06
Texscan .....	10, 11
Tocom .....	17, 21, 49, 50
Unika .....	31, 32, 41
Viewstar .....	07, 08, 19, 21, 26, 28, 29, 32, 33, 40, 41
Warner Amex .....	44
Zenith .....	14, 42

The VCR may not be able to control all models of the brands listed.



# SETTING UP THE VCR

8. Select one of the choices and follow the on-screen instructions.

```
CABLE BOX SETUP

Did the cable box
tune to channel 9?

1 Yes, setup is complete
2 No, try another code
3 No, cancel setup
```

Once you have completed the setup, the VCR confirms the CABLE BOX SETUP is completed or canceled.

## 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 Setup
6 Preferences
7 Audio
8 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
6 DSS Setup
0 Exit
```

# SETTING UP THE VCR

3. 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
```

4. 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.

## 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.

### 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

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.

## 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, setting the Time Zone, and setting the Daylight-Savings feature, 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 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

### 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

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

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.

## 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).

## 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.

## 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 a 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

## 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 Setup
6 Preferences
7 Audio
8 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
```

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
```

### Time/Date Display

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

# SETTING UP THE VCR

## 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.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 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
6 DSS Setup
0 Exit
```

3. 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
```

4. 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.*

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

35	American Movie Classics
39	Arts & Entertainment
57	Black Entertainment
54	Bravo
42	Cable News Network
45	Cinemax
98	Cinemax 2
37	The Discovery Channel
53	The Disney Channel
63	Entertainment Television
34	ESPN Sports Network
47	The Family Channel
33	Home Box Office
95	Home Box Office 2
96	Home Box Office 3
51	The Learning Channel
46	Lifetime
58	The Movie Channel
48	Music Television
49	The Nashville Network
38	Nickelodeon
64	Nostalgia Television
99	Quality Value Cable
41	Showtime
97	Showtime 2
59	Sports Channel
52	Turner Network Television
44	USA-Network
62	Video Hits I
93	Viewer's Choice 1
94	Viewer's Choice 2
55	WGN Chicago
43	WTBS Atlanta
60	WWOR-New York

*See next page for Canadian List*

## 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

## ADDITIONAL SET-UP FEATURES IN THE PREFERENCES MENU

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

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

2. Press 6 to display the PREFERENCES menu.

```
PREFERENCES
1 Remote Control: VCR1
2 Auto Play: ON
3 Auto TV/VCR: ON
4 Front Panel: AUTO
5 Tape Speed: SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit
```

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

## REMOTE VCR1/VCR2 OPTION

The VCR's remote controls two compatible RCA, ProScan, or GE VCRs. Most compatible VCRs automatically respond to the VCR1 button without being programmed. If you own two compatible VCRs, test them to see if the VCR1 button turns on both VCRs. If it does, then you may want to program this VCR to respond to the VCR2•DVD button on the remote.

Press 1 to select the Remote Control item. Then press the VCR2•DVD button to change.

### Remote Control Option

Remember you must press VCR1 or VCR2•DVD on the remote--whichever you selected in the menu--before the remote will operate the VCR.



# SETTING UP THE VCR

```
PREFERENCES
< Press VCR2 to Change >
2 Auto Play:      ON
3 Auto TV/VCR:   ON
4 Front Panel:   AUTO
5 Tape Speed:    SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit
```

```
PREFERENCES
1 Remote Control: VCR2
2 Auto Play:      ON
3 Auto TV/VCR:   ON
4 Front Panel:   AUTO
5 Tape Speed:    SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit
```

The VCR will only respond to the VCR2•DVD button. To change the remote setting back to VCR1, display the PREFERENCES menu, press 1, and then press the VCR1 button on the 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.

- 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 IN FROM ANT. and OUT TO TV 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.

### Auto TV/VCR

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

VCR mode: VCR indicator in the display panel lights.

TV mode: VCR indicator turns off.

# SETTING UP 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.

## TAPE SPEED

You can select a preferred tape speed for recording. The speed you select appears in the display panel and in the timer and VCR Plus+ recording menus. Press 5 to switch between SP and SLP.

You can override the preferred tape speed

- Press the SPEED button on the remote.
- Edit the tape speed in the timer or VCR Plus+ recording menu.

When you turn off the VCR, the tape speed reverts to the one you have selected.

### 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.

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

### Tape Speed

The speed of your timer recording cannot be changed once the timer recording is saved unless you go into the editing option of program review.

Changing your preferred tape speed does not affect those timer recordings already programmed.

The factory setting for the VCR tape speed is SLP.

VCR playback is not affected by the preferred tape speed.

# 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.

## REMOTE BUTTONS

Your back-lit remote has a light button (💡) that glows in the dark. Press this button to light the buttons on the remote. The remote buttons remain lit when they are pressed within a few seconds of each other. If a button is not pressed within approximately eight seconds, the light turns off to conserve battery power.

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

**AUX** Used with PWR button to turn on a compatible RCA audio component.

**PWR** 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 receiver. Can be programmed to control different brands of receivers. Used with the PWR 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 PWR button to turn on a different brand of TV (if programmed) and sets the remote to control the TV.

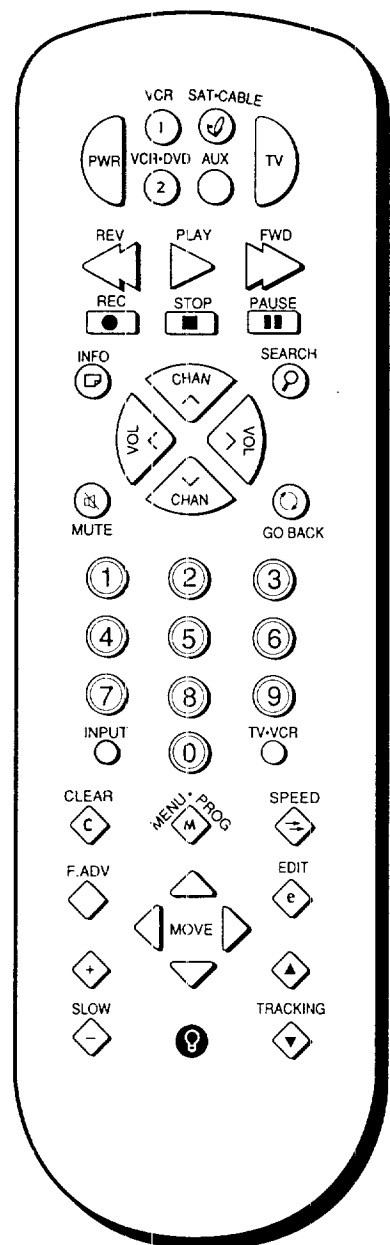
**VCR1** Turns on a compatible RCA, ProScan, or GE VCR and sets the remote to control the VCR.

**VCR2•DVD** Turns on a compatible RCA, ProScan, or GE VCR and sets remote to control VCR when it has been setup. Turns on compatible RCA or ProScan laser disc player. Also can be programmed to control a compatible RCA DVD player.

## 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.



# VCR BASICS

**EDIT** Signals two properly connected compatible VCRs to begin copying a tape.

**F.ADV (Frame Advance)** Advances the tape one frame at a time during play-pause.

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

**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 inputs 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 or front of the VCR.

**MENU•PROG** Displays VCR MAIN MENU on the TV screen.

**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 -- 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.

**PWR** Turns the VCR off.

**REC** 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 and decreases slow-motion speed.

**SEARCH** Displays MOVIE▶▶ADVANCE screen for prerecorded movies or displays Index, Zero, and Blank Search menus on TV screen. Starts COMMERCIAL▶▶ADVANCE skipping 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.

# VCR BASICS

**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.

**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.

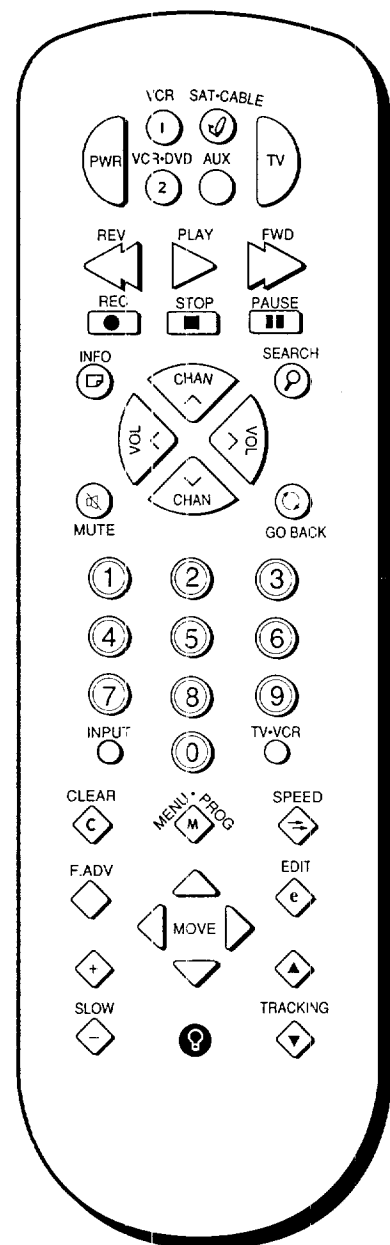
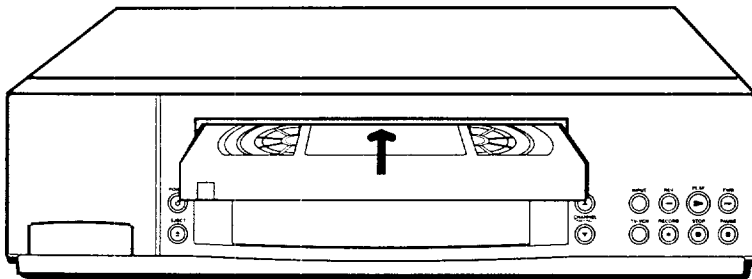
**PWR** Turns the TV on and off.

**SLOW + and -** Used with some TV menus to select and adjust features.

**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.



### TV Buttons

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

# VCR BASICS

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) to begin tape play.
- Press PAUSE for stop action.
- Press TRACKING up or down to remove any streaks from the picture, if necessary.
- Press STOP 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 (PWR) and the VCR will turn off after rewinding.

## TAPE EJECT

Press 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 "Tape Speed" in *Setting Up the VCR* section for information about tape speeds).
2. Press the RECORD (REC) button to begin recording.
3. Press STOP to stop recording.

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

### Pause

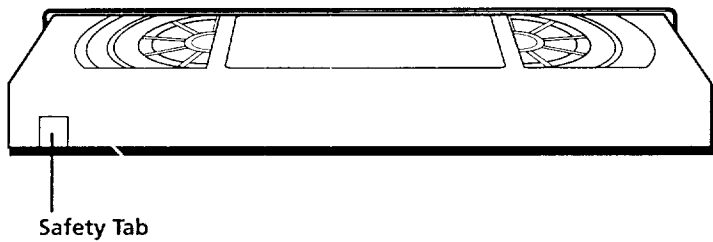
If you pause, the VCR automatically switches from pause to stop after a few minutes to reduce tape wear.

### 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.

## 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.



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



# 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+
- Broadcast Stereo or Second Audio Program (SAP)
- Audio Only Recording
- 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 FEATURES

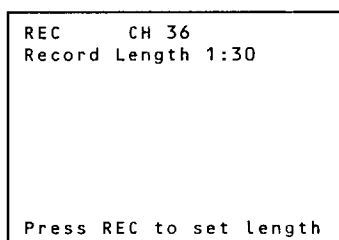
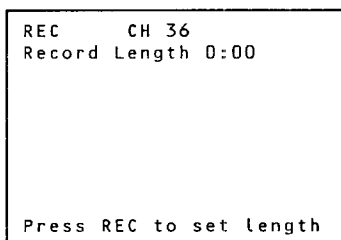
There are four ways to record programs:

- **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 for a few seconds.

## 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 Setup
6 Preferences
7 Audio
8 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 the VCR for a cable box for all channels.

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 or satellite receiver the VCR can control, turn it on before the recording is to begin. Enter the cable or satellite channel number to be recorded in the channel item of the timer recording menu.

For cable box or satellite receiver the VCR cannot control, turn it on 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, have a cable box the VCR can control, 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 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

- Press 1 to display the VCR PLUS+ menu.

```
VCR PLUS+

Enter PlusCode Number
(from TV listing)

-

Press CLEAR to correct
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
```

VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.

# 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.

**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.

For a cable box the VCR can control, turn it on before the recording is to begin.

For a cable box the VCR cannot control, turn it on 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 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.

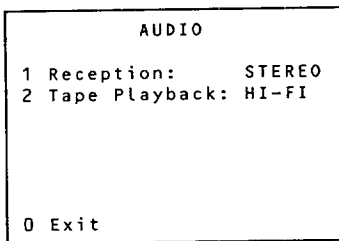
## RECORDING BROADCAST STEREO TV OR SAP (SECOND AUDIO PROGRAM)

Some TV programs are broadcast with stereo audio or SAP (Second Audio Program).

1. Turn on the TV and tune it to the VCR viewing channel (either 3, 4, or TV's video input).
2. Insert a tape with safety tab in place.

# RECORDING

3. If your VCR viewing channel is 3 or 4, make sure the VCR indicator appears in the VCR's display panel. If not, press TV•VCR to turn it on.
4. Use the SPEED button on the remote to select a recording speed. The tape speed indicator appears on the TV screen.
5. Select the channel or line input to be recorded.
6. Set the Reception: STEREO/MONO/SAP feature for the type of audio you want to record. See *Other Features* section.



7. Press RECORD to start recording.
8. Press STOP when you are finished.

## RECORDING AUDIO ONLY

You can record audio only from another audio source connected to the AUDIO IN 1 (R and L/MONO) jacks on the back of the VCR.

1. Press the INPUT button once to record from the back AUDIO IN jacks. L1 will appear in the VCR's display panel.

Press the INPUT button twice to record from the front AUDIO IN jacks. L2 will appear in the VCR's display panel.

The VCR will record audio from the audio equipment connected to the AUDIO IN jacks.

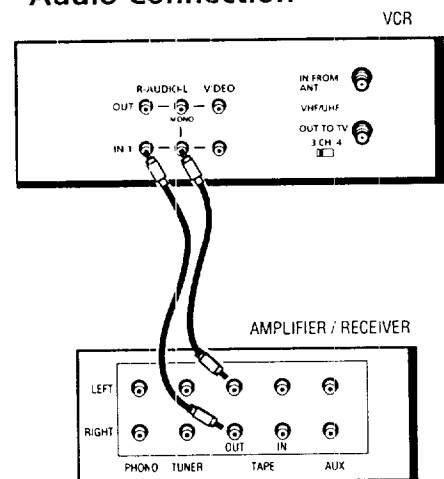
2. Use SPEED on the remote to select the recording speed.
3. Start audio source playing and press RECORD to begin recording.
4. Press STOP when you are finished.

## Playing Back Audio Only

To get stereo sound, connect the AUDIO OUT jacks of the VCR to the appropriate input on your amplifier or receiver. Do not use the phono input. Refer to your amplifier or receiver user's guide.

Recording audio only will erase anything that was previously recorded on the tape.

## Audio Connection



# 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 IN FROM ANT and OUT TO TV jacks, tune *recording VCR* to channel 3 or 4--the one selected on the back of the *playback VCR*.

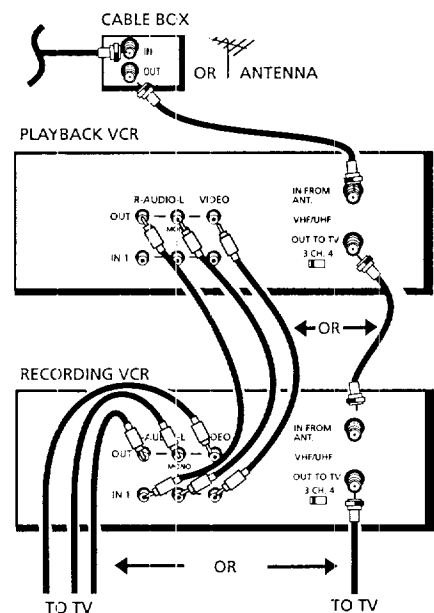
If you have connected your VCR using the AUDIO/VIDEO jacks, press INPUT on the *recording VCR's* remote to select the line input. Select L1 for the jacks on the back of the VCR and L2 for the jacks on the front.

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 on the *playback VCR* to begin playback. When you reach the point on the tape or program where you want to begin copying, press PAUSE again. You may need to adjust the tracking.
6. Press the RECORD button, then press PAUSE, on the *recording VCR*.
7. Press the 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, and then press PAUSE.
  - Press PAUSE on *both VCRs* at the same time to resume copying.
9. Press STOP on *both VCRs* when you are finished.

### Caution:

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

### Two VCR Connection





## USING DUAL REMOTE WITH AUTOEDIT

Use this VCR as the *playback VCR* and set it to respond to VCR2•DVD on the remote as described in *Setting Up the VCR* section. Use your other compatible VCR as the *recording VCR*, which should respond to VCR1.

1. Follow step 1 - 4 in the "Using Two VCRs for Copying and Editing Tapes."
2. Press VCR1 on remote to control *recording VCR*. Press RECORD (REC), then PAUSE, to put recording VCR in pause mode.
3. Press VCR2•DVD on remote to control *playback VCR*.
4. Use FWD, REV, and PLAY to locate the point where you want to begin copying. Press PAUSE while VCR is playing to put *playback VCR* in pause mode.
5. Press EDIT on remote to start the VCRs copying.
6. Press EDIT again when you want to pause copying.
7. Repeat step 4 - 6 as needed.
8. Press VCR1, STOP, then VCR2•DVD, STOP, when you are finished.



# PROGRAMMING THE REMOTE

## CONTROL YOUR OTHER COMPONENTS...

The remote can be programmed to control several components, such as a television, satellite receiver, cable box, laser disc player, DVD player, or RCA audio component.

It is initially programmed to control an RCA, GE, or ProScan TV or digital 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

## 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 three-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 PWR 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

Brand	Code	Brand	Code
A-Mark .....	102	Mitsubishi .....	006,011,014,019,022,
Admiral .....	005,114	.....	027,041,055,056,061,068,108
Amtron .....	064	MTC .....	011,019,027
Akai .....	002,103	Multivision .....	081
Anam .....	104,105	NAD .....	018,023
Anam National .....	038,106	NEC .....	011,014,019,027,038,084
AOC .....	011,019,027,088,107	Panasonic .....	012,013,038,086,111
Bell & Howell .....	005,013	Philco .....	006,007,010,011,013,016,019,
Candle .....	011,027,033	.....	027,033,035,037,038,043,087,089
Citizen .....	011,027,033,064	Philips .....	002,006,007,010,011,013,016,
Colortyme .....	011,027,084	.....	033,035,037,038,043,066,073
Concerto .....	011,027	Pioneer .....	011,027,045,062,093,113
Contec/Cony .....	036,037,040,042,064	Portland .....	011,019,027,037
Craig .....	064	ProScan .....	000
Curtis Mathes .....	000,011,	Proton .....	011,027,037,072
.....	015,027,037	Quasar .....	012,038,092,111
CXC .....	064	Radio Shack .....	000,021,025,036,037,
Daewoo .....	011,019,027,112,116	.....	059,064,078
Daytron .....	011,027	RCA .....	000,006,011,019,027,034,
Dimensia .....	000	.....	038,044,046,088,100,101,109
Electrohome .....	006,011,014,027,038,	Realistic .....	021
.....	061,068	Sampo .....	011,027
Emerson .....	011,026,027,028,029,030,	Samsung .....	006,011,014,015,019
.....	031,032,037,042,053,064,065,067,	.....	027,036,037,077,110
.....	075,076,078,079,094,095,096	Sanyo .....	017,021,039,056,057,058
Envision .....	011,027	Scott .....	028,037,064
Fisher .....	017,021,039,041	Sears .....	000,006,011,014,017,018,021,
Funai .....	064	.....	023,027,039,040,041,051,071,083,095
GE .....	000,008,009,011,012,027,	Sharp .....	011,020,025,027,037
.....	038,068,086,089,091,116	.....	052,053,059,060,108
Goldstar .....	003,004,006,011,019,	Signature .....	005,094,108
.....	027,037,050	Sony .....	002
Hallmark .....	011,027	Soundesign .....	011,027,033
Hitachi .....	009,011,027,036,037,040,	Sylvania .....	006,007,010,011,013,016,
.....	047,048,063,080,094,097,098	.....	027,033,035,043,049,066,087,089
Infinity .....	013	Symphonic .....	064,076,115
JBL .....	013	Tatung .....	038
JC Penney .....	000,008,011,019,027,040,	Technics .....	012
.....	068,077,086,088	Techwood .....	011,027
Jensen .....	011,027	Teknika .....	011,019,027,033,036,
JVC .....	012,024,036,037,040,048,051,074	.....	037,040,066
Kawasho .....	002,011,027	Telecaption .....	090
Kenwood .....	006,011,014,027	TMK .....	011,027
Kloss Novabeam .....	035,043	Toshiba .....	018,021,023,040,071,
KTV .....	078	.....	077,085,090
Loewe .....	013	Universal .....	008,009
Luxman .....	011,027	Victor .....	051
LXI .....	000,013,018,021,023,054	Vidtech .....	019,027
Magnavox .....	006,007,010,011,013,016,	Wards .....	000,005,006,007,008
.....	027,033,035,043,049,066,087,089	.....	009,010,011,013,019,025,027,028,
Marantz .....	011,013,027,069	.....	035,043,059,066,076,082,089
Memorex .....	005	Yamaha .....	006,014,019,027
MGA .....	006,011,014,019,022,	Zenith .....	001,099,114
.....	027,041,056,061,068		

# PROGRAMMING THE REMOTE

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

The remote is programmed to control an RCA, GE, or ProScan digital satellite receiver.

If you have another brand of cable box or digital satellite receiver with its own remote, you may be able to use the VCR's remote to operate it.

1. Turn on the cable box or digital satellite receiver.
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 three-digit code from the code list.
5. Release the SAT•CABLE button and press PWR or CHAN up or down to see if the cable box or receiver 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 DIGITAL SATELLITE RECEIVER

After you have set up your remote, see which buttons will operate your cable box or digital 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 PWR.
2. You may want to experiment to see which buttons will operate your cable box or digital satellite receiver. Try pressing buttons, such as CHAN up or down.

### Cable Box Codes

ABC .....	022,046,053,054
Anvision .....	007,008
Cablestar .....	007,008
Diamond .....	056
Eagle .....	007,008
Eastern International .....	002
General Instrument .....	004,005, ..... 015,023,024,025,030,036,046
Hamlin .....	003,012,013,034,048
Hitachi .....	037,043,046
Jerrold .....	004,005,015,023, ..... 024,025,030,036,045,046,047,062,065
Macom .....	037,043
Magnavox .....	007,008,019,021, ..... 026,028,029,032,033,040,041
NSC .....	009
Oak .....	001,016,038
Oak Sigma .....	016
Panasonic .....	003,027,039,061
Philips .....	007,008,019,021,026,028, ..... 029,032,033,040,041
Pioneer .....	018,020,044
Randtek .....	007,008
RCA .....	000,027,060
Regal .....	003,012,013
Regency .....	002,033
Samsung .....	044
Scientific Atlanta ....	003,022,035,063,064
Signature .....	046
Sprucer .....	027
Starcom .....	046
Stargate 2000 .....	058
Sylvania .....	011,059
Teknika .....	006
Texscan .....	010,011,059
Tocom .....	017,021,049,050,055
Unika .....	031,032,041
Viewstar .....	007,008,019,021,026, ..... 028,029,032,033,040,041
Warner Amex .....	044
Zenith .....	014,042,057,061

### Digital Satellite Receiver Codes

GE .....	000
Panasonic .....	097
ProScan .....	000
RCA .....	000
Toshiba .....	096
Sony .....	095

This remote may not operate all models of the brands that are shown.

# PROGRAMMING THE REMOTE

## PROGRAMMING THE REMOTE TO CONTROL AN AUXILIARY COMPONENT

Your remote can also control the brands of the equipment listed, such as a radio, CD player, tape player, turntable, amplifier, digital satellite receiver, or digital video disc player.

1. Turn on the component to be programmed.
2. Look up your component's code number on the code list.
3. Press and hold the AUX button.
4. Enter the code from the code list.
5. Release the AUX button and press PWR or CHAN up or down to see if the auxiliary component responds to the remote commands.

## OPERATING THE AUXILIARY COMPONENT

After you have programmed your remote, see which buttons will operate your component.

1. Point the remote at the component, and press AUX. If it does not turn on, press AUX and then PWR.
2. You may want to experiment to see which buttons will operate your component. Try pressing buttons, such as PLAY, REV, and FWD.

### Auxiliary Component Codes

<b>RCA/ProScan/Dimensia</b>	
<b>AM/FM</b> .....	<b>003</b>
<b>Auxiliary Component</b> .....	<b>004</b>
<b>CD</b> .....	<b>007</b>
<b>DVD</b> .....	<b>010</b>
<b>Phono</b> .....	<b>005</b>
<b>Satellite Receiver</b> .....	<b>008</b>
<b>Tape 1</b> .....	<b>006</b>
<b>Tape 2</b> .....	<b>009</b>

This remote may not operate all models of the brands that are shown.

# PROGRAMMING THE REMOTE

## PROGRAMMING THE REMOTE TO CONTROL A LASER DISC PLAYER OR DVD COMPONENT

The VCR2•DVD button on the remote is programmed to control a VCR set to respond to the VCR2 button or an RCA, ProScan, or GE laser disc player.

If you have an RCA DVD component, you can program the VCR2•DVD button to operate it.

1. Turn on the component.
2. Look up your component and its code number in the code list on the right.
3. Press and hold the VCR2•DVD button on the remote.
4. Enter the three-digit code from the code list.
5. Release the VCR2•DVD button, and press PWR. If the component turns off, setup is complete.

## OPERATE THE COMPONENT

After you have set up your remote, see which buttons will operate it.

1. Point the remote at the component, and press VCR2•DVD. If it does not turn on, press VCR2•DVD and then PWR.
2. You may want to experiment to see which buttons will operate your component. Try pressing buttons, such as CHAN up or down.

### RCA, ProScan, and GE Codes

VCR .....	037
LaserDisc Player .....	037
DVD .....	078

This remote may not operate all models of the brands that are shown.



# OTHER FEATURES

## FEATURES TO ENHANCE VCR OPERATION

- **COMMERCIAL▶▶ADVANCE**
- **MOVIE▶▶ADVANCE**
- **Picture Search Options**
- **Pro-Tect Plus™ Locking**
- **Tracking**
- **Auto Repeat**
- **Time Counter**
- **On-Screen Displays**
- **Audio Reception**
- **Audio Tape Playback**

**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

## COMMERCIAL▶▶ADVANCE

COMMERCIAL▶▶ADVANCE is a patented technology that detects and marks most commercials on your tape for any recording that is more than 15 minutes long. After recording, the VCR rewinds the tape to the beginning of the recording and determines where the commercials are located. It then marks the beginning and end of the detected commercial segments and when finished returns the tape to the end of the recording. **It does not erase the commercials from the tape.**

During playback, the VCR automatically skips the detected commercial segments, or you can choose to manually skip them. This feature reduces three minutes of commercials to approximately 8-12 seconds of fast forwarding in the SLP speed. You can select a background display of blue or see the video as the commercials are skipped.

Because television signals do not indicate where commercials are located, this feature finds and marks them through a set of formulas based on how television is broadcast today. Since television stations broadcast differently and insert their own commercials, you may experience some variations in this feature's effectiveness. Station promotions, identifications, and announcements are not considered commercials--but might be skipped. For more information--see *Questions and Answers about COMMERCIAL▶▶ADVANCE* in the *References* section. All of the COMMERCIAL▶▶ADVANCE features are accessed through the COMMERCIAL ADVANCE menu.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

2. Press 6 to display the PREFERENCES menu.

COMMERCIAL▶▶ADVANCE is a registered trademark in the U.S. of SRT, Inc.

# OTHER FEATURES

```

      PREFERENCES
1 Remote Control: VCR1
2 Auto Play:      ON
3 Auto TV/VCR:   ON
4 Front Panel:   AUTO
5 Tape Speed:    SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit

```

3. Press 5 to display the COMMERCIAL ADVANCE menu.

```

COMMERCIAL ADVANCE
1 Marking:      ON
2 Playback:     MANUAL
3 Display:      BLUE
4 Mark an unmarked tape
0 Exit

```

Now, you can select one of the COMMERCIAL▶▶ADVANCE features.

## COMMERCIAL▶▶ADVANCE Marking

Press 1 to turn commercial Marking ON or OFF.

- Select ON, and the VCR will mark commercials within approximately 30 seconds for the following types of recording:
  - **Timer, Timer with VCR Plus+, or Express Recording**  
The VCR automatically marks the commercials after the power is turned off.
  - **Recording** When you stop the recording, the VCR prompts you to mark the commercials.

```

The VCR is waiting to
mark commercials in the
program you recorded.

1 Mark them now
2 Mark them later
3 Don't mark commercials

The VCR will begin
marking in 30 seconds. . .

```

- Select OFF and the VCR will not mark the commercials.

# OTHER FEATURES

## COMMERCIAL▶▶ADVANCE Playback

Press 2 to switch between Playback: AUTO and MANUAL.

- Select AUTO to have the VCR automatically advance through the blocks of marked commercials.

It works with most 30, 45, and 60-second commercials.

A commercial group starting within the first two minutes or last two minutes of a recording will not be automatically skipped.

A commercial will not be skipped if the recording starts in the middle of a commercial segment, one isolated commercial is shown without others, or a commercial is longer than one minute. Press FWD to scan through the commercial.

Part of a recorded program may be skipped if the program segment is between commercials and less than one minute or there are frequent dark and quiet scenes. If part of the program is skipped, rewind the tape to the beginning of the skipped program segment and press PLAY.

- Select MANUAL and the VCR won't advance through the blocks of marked commercials until you press SEARCH.

If you press SEARCH during playback of material other than commercials, the VCR advances to the end of the next "marked" commercial block and resumes playback.

The VCR resumes playback when it reaches the end of the marked commercials.

## COMMERCIAL▶▶ADVANCE Display

Press 3 to switch between Display: BLUE or VIDEO.

- Select BLUE to display a blue background when the VCR advances through the block of marked commercials.
- Select VIDEO to display the recorded video when the VCR advances through the block of marked commercials.

## Marking an Unmarked Tape

This feature allows you to mark an existing tape turning it into a COMMERCIAL▶▶ADVANCE tape. The VCR will play the tape and then mark the commercial segments it finds.

# OTHER FEATURES

1. Insert a tape that has been previously recorded.
2. Press 4 to select the Mark an unmarked tape feature.
3. Position the tape where you want the marking to start using PLAY, FWD, and REV buttons.

```
Set the tape to the
point at which you want
to start marking.

When the tape is ready,
press MENU to begin.

Press CLEAR to cancel
```

4. Press MENU to begin the marking process. The VCR will play the tape until it finds six seconds (or more) of blank tape or until the tape reaches the end. It will then rewind the tape to the starting point you set and begin marking the commercial segments.

## MOVIE▶▶ADVANCE

MOVIE▶▶ADVANCE helps you locate certain parts of prerecorded movies (rented or purchased). The feature works in two ways: 1) you can go to the beginning of the movie or 2) you can skip from one preview to the next. MOVIE▶▶ADVANCE works only on cassettes recorded in the SP speed with the safety tab removed.

1. Insert a tape with the safety tab removed and press SEARCH. The following menu appears.

```
What type of tape
is this?

1 Purchased/Rented Movie
2 Home Recording
3 Other

Press CLEAR to cancel
```

2. Press 1 if the tape is a purchased or rented movie, press 2 if it's a recording made at home, or press 3 if it is something else or you don't know.

MOVIE▶▶ADVANCE is a trademark of SRT, Inc.

MOVIE▶▶ADVANCE works only on cassettes recorded in the SP speed with the safety tab removed.

# OTHER FEATURES

Pressing 2 or 3 gives the same response and takes you to a different search feature. If you accidentally make a wrong selection, press GO BACK to return to this screen.

If you press 1, the MOVIE ADVANCE menu appears.

```
MOVIE ADVANCE
Would you like to go to
the start of the movie
or to the next preview?
1 Go to movie
2 Go to preview
Press CLEAR to cancel
```

3. Press 1 to advance directly to the beginning of the movie or press 2 to view the first (next) preview.

  - Press 1 to Go to movie. The following screen appears with a blue background.

```
MOVIE ADVANCE
Searching for start
of movie...
Press STOP to cancel
```

When the movie is found, the following screen is displayed.

```
MOVIE ADVANCE
The movie is ready.
Press PLAY to start.
Press STOP to cancel
```

*This display will time out after a few minutes and the VCR will enter the stop mode.*

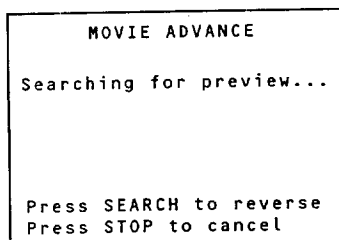
- Press 2 to Go to preview. The following screen appears with a video background.

## Preview Search Note

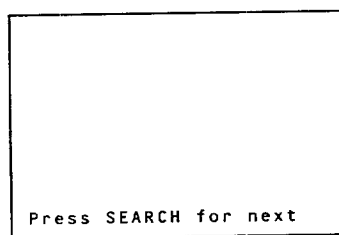
Any time during the preview search mode, pressing SEARCH will reverse the search direction.

MOVIE▶▶ADVANCE is a trademark of SRT, Inc.

# OTHER FEATURES



When a preview is detected, the VCR cues it and begins playing.



*Displays time out after a few seconds.*

## 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 well 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 to return to normal playback.

# OTHER FEATURES

## SLOW MOTION

You can view a tape during play or play-pause using slow motion. Slow motion works well 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, you can also press FWD or REV to begin slow-motion playback.
2. Press SLOW + or FWD to increase or SLOW – or REV to decrease the speed of the search.
3. Use TRACKING up or down to remove any streaks from the picture.
4. Press PLAY to return to normal playback.

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

## FRAME ADVANCE

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

1. Press PAUSE to “freeze” the action.
2. Press F.ADV each time you want to view a frame of the scene.
3. Press PAUSE or PLAY 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.

### Insert Tape:

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



# OTHER FEATURES

2. Press SEARCH on the remote to display the INDEX SEARCH menu on the TV screen.
3. If you want to search through 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.

## 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.

```
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
```

```
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
```

If MOVIE▶▶ADVANCE is selected,  
Index and Zero Search are not  
available

# OTHER FEATURES

## BLANK SEARCH

The VCR searches for blank portions of the tape that are more than six seconds in length.

1. Insert a recorded tape and press STOP.
2. Press SEARCH on the remote until the BLANK SEARCH menu appears.
3. Press FWD to begin searching. A message appears on the screen if a blank area is not found.
4. Press STOP to stop blank searching.

## 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 VCR1 (VCR2•DVD) on the remote for approximately six seconds. SAFE appears in the display to let you know the feature is activated.
- To Unlock: Press and hold POWER or VCR1 (VCR2•DVD) on the remote for approximately six seconds.

## 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.

BLANK SEARCH  
Press FWD to begin  
searching for blank  
section of tape.  
  
Press SEARCH to exit

BLANK SEARCH  
Searching for  
blank tape...  
  
Press SEARCH to exit

If MOVIE▶▶ADVANCE is selected,  
Blank Search is not available

### 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

## AUTO REPEAT

The Auto Repeat feature lets you specify the length of time you want the tape to play in a repeating loop.

1. Go to the beginning of the program you want to repeat and press STOP.
2. Press MENU to display VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

3. Press 6 to display the PREFERENCES menu.

```
PREFERENCES
1 Remote Control: VCR1
2 Auto Play: ON
3 Auto TV/VCR: ON
4 Front Panel: AUTO
5 Tape Speed: SLP
6 Set Auto Repeat
7 Commercial Advance
0 Exit
```

4. Press 6 to display the AUTO REPEAT screen.

```
AUTO REPEAT
Set the length of time
you want the tape to
play in a repeating loop
Loop from 0:00 to ---
(h:mm)
Press MENU to exit
```

5. Enter the length of time (hours and minutes) you want the tape to play in a repeating loop using the number buttons on the remote.

### More About Auto Repeat

Use the number buttons to enter the length of time in hours and minutes.

Eject the tape to cancel the repeat feature.

The VCR plays to the end of the tape if the time you enter exceeds the actual length of the tape.

# OTHER FEATURES

## TAPE PLAYBACK

The VCR records the same audio on both the Hi-Fi and linear tracks on the tape. Hi-Fi sound is recorded on separate left and right stereo channels. Monaural sound is recorded on the linear track. Press 2 to switch between Tape Playback: HI-FI, LINEAR and MIX.

To enjoy Hi-Fi sound, connect your VCR to a stereo television or amplifier/receiver using the audio/video jacks. The Tape Playback feature lets you select which audio you play back.

- Select HI-FI to play back sound recorded on the Hi-Fi track and for normal use. The Hi-Fi indicator lights in the display when you are playing back hi-fi.
- Select LINEAR to play back the sound recorded on the linear monaural track, such as a second audio program, (SAP) or a dubbed voice-over.
- Select MIX to play back the sound recorded on both the linear track and the Hi-Fi track, sound-on-sound.

# 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

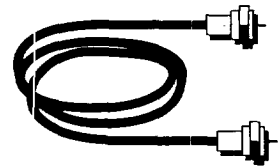
#### RF Jacks and Coaxial Cables (F-type)

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



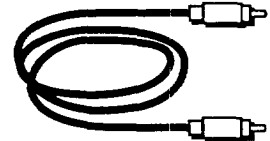
#### Audio/Video Jacks and Cables (RCA-type)

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, red for right audio, and white for left audio). If your TV only has one input for audio (mono), you may need a Y-adaptor to hear sound from both channels.



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 quality and stereo sound 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 AUTO 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 the IN FROM ANT. and OUT TO TV jacks 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

If your cable box is remote controllable:

- Position it on top of the VCR as shown. Make sure not to block any of the VCR's ventilation holes.

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:

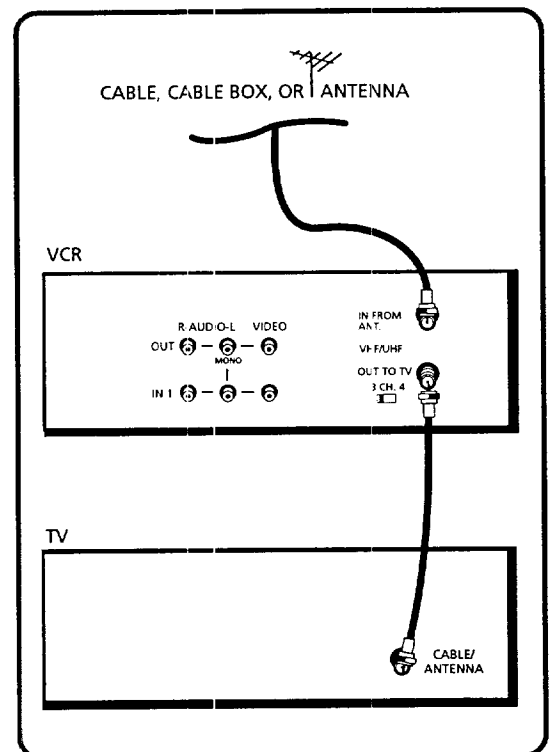
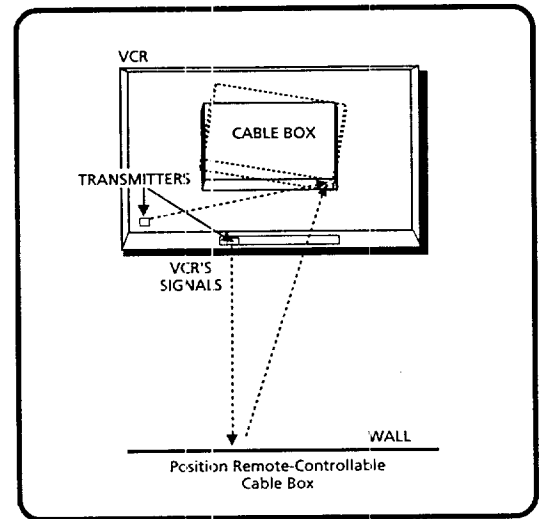
- Set the Auto TV/VCR feature to ON.

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:

- Stereo 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
- (3) audio/video cables

### If your cable box is remote controllable:

- Position it on top of the VCR as shown. Make sure not to block any of the VCR's ventilation holes.

### 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:

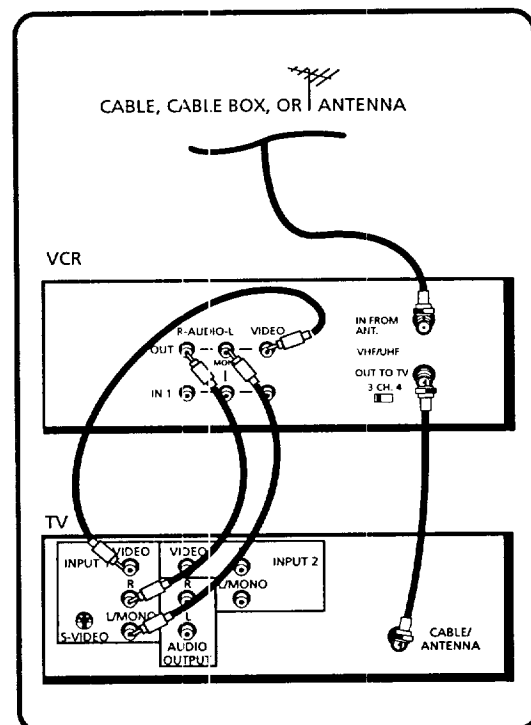
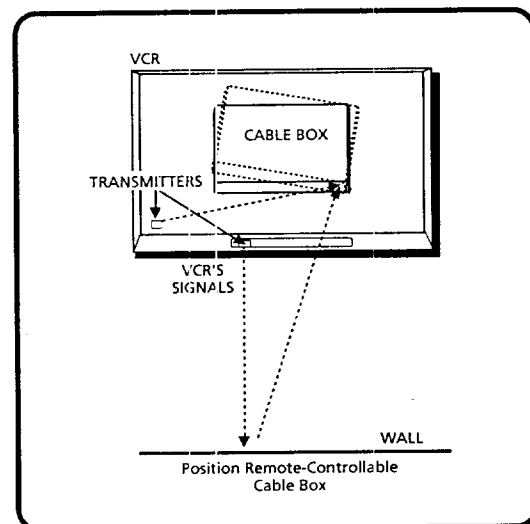
- Set the Auto TV/VCR feature to OFF.

### 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:

- Stereo 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
- (3) audio/video cables
- (1) splitter

### If your cable box is remote controllable:

- Position it on top of the VCR as shown. Make sure not to block any of the VCR's ventilation holes.

### 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:

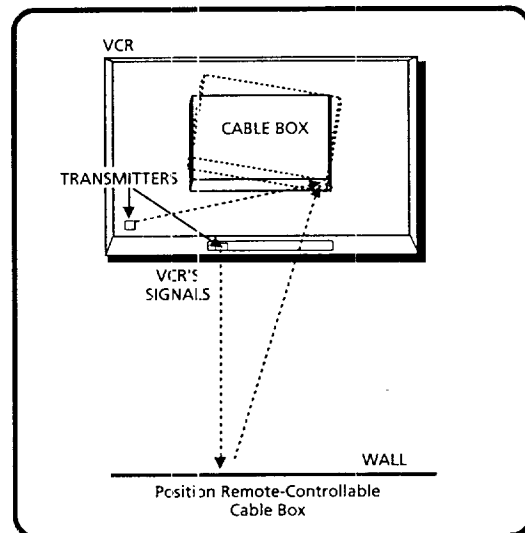
- Set the Auto TV/VCR feature to OFF.

### To play a tape:

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

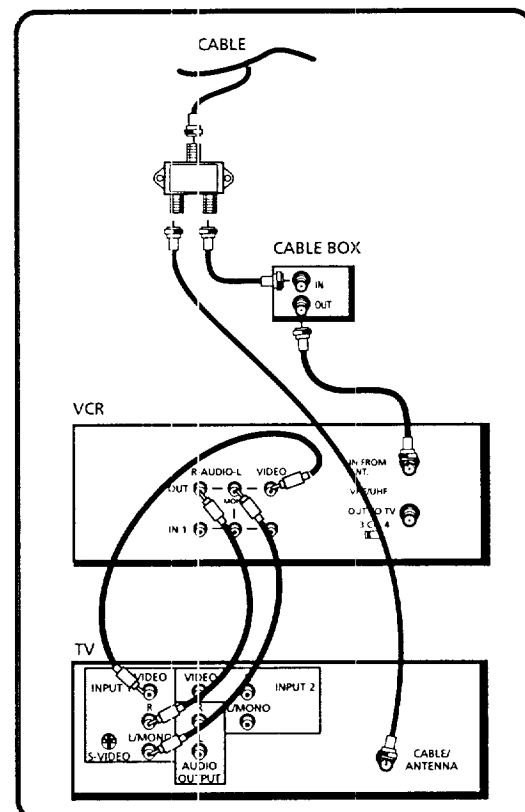
### To record a scrambled or unscrambled program and watch another unscrambled program:

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 13.



# CONNECTIONS

## TV WITH RF JACK AND DIGITAL SATELLITE RECEIVER

### This connection assumes:

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

### This connection provides:

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

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

- (4) coaxial cables and (3) audio/video cables

### If the VCR can control your digital satellite receiver:

- Position it on top of the VCR as shown. Make sure not to block any of the VCR's ventilation holes.

### To connect:

- Connect cables as shown.
- 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 digital satellite receiver, tune your VCR to its line input (L2 if you have connected the receiver to the back jacks or L1 for the front jacks).

### Auto TV/VCR Setting:

- Set the Auto TV/VCR feature to ON.

### To play a tape:

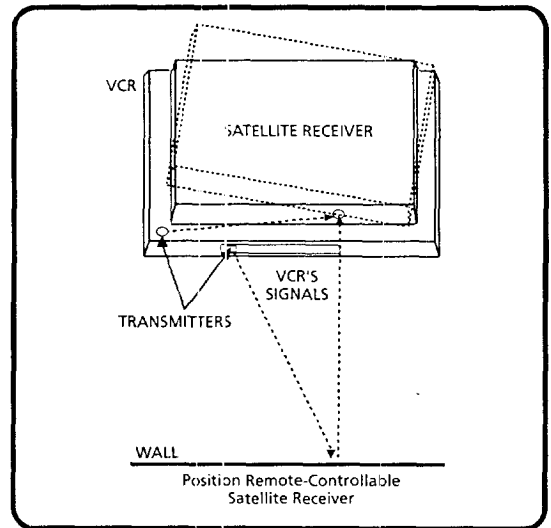
- Insert a tape.
- If necessary, press PLAY.

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

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

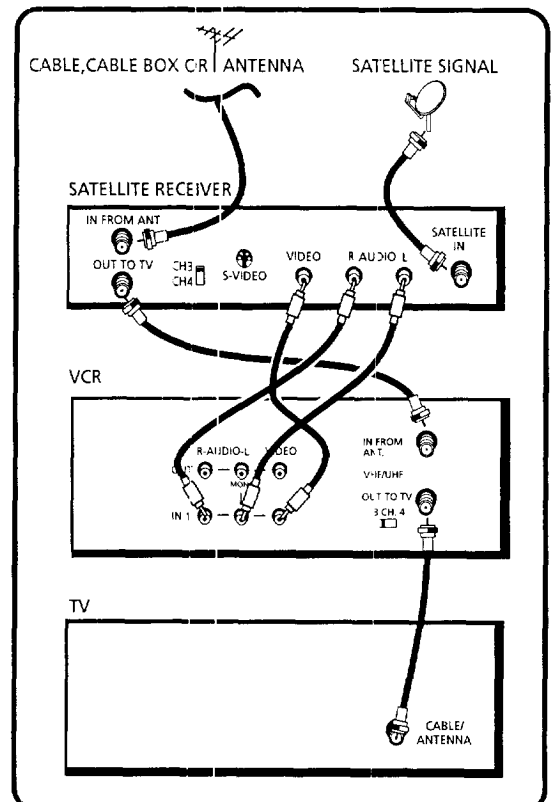
### To record a digital satellite receiver program

- Turn on the 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 copyrighted materials may infringe the rights of others.



# CONNECTIONS

## TV WITH AUDIO/VIDEO JACKS AND DIGITAL SATELLITE RECEIVER

### This connection assumes:

- You have an advanced digital satellite system and your TV has audio/video input jacks.

### This connection provides:

- Stereo sound playback from VCR, recording from receiver while watching cable or off-air channel, and recording one cable or off-air channel while watching another.

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

- (3) coaxial cables and (6) audio/video cables

### If the VCR can control your digital satellite receiver:

- Position it on top of the VCR as shown. Make sure not to block any of the VCR's ventilation holes.

### To connect:

- Connect cables as shown.
- Return to the *First Things First Section*, 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 digital satellite receiver, tune your VCR to its line input (L2 if you have connected the receiver to the back jacks or L1 for the front jacks).

### Auto TV/VCR Setting:

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

### To play a tape:

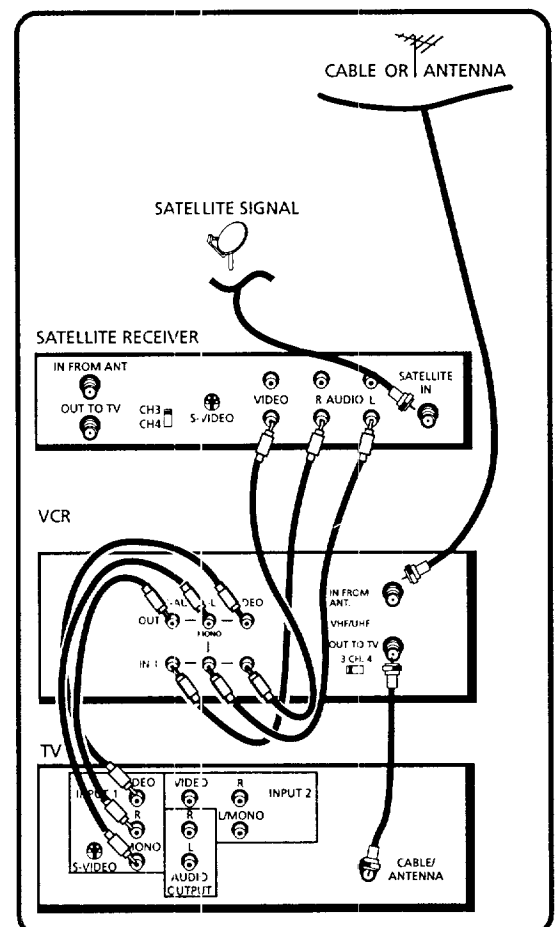
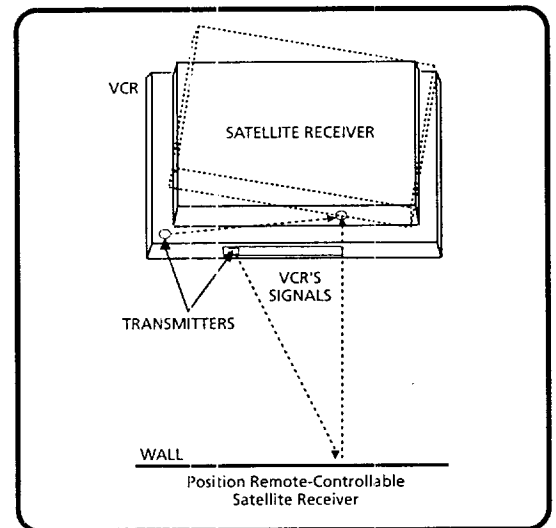
- Insert a tape.
- If necessary, press PLAY.

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

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

### To record a digital satellite receiver program and watch a cable or off-air channel:

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



# APPENDIX A: REFERENCE

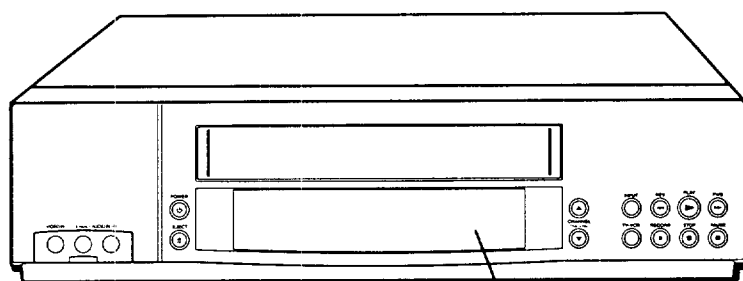
This section gives you some additional information about the VCR, including a description of the unit's controls and display.

You also will find a *Troubleshooting Tips* section and *Questions and Answers about COMMERCIAL▶▶ ADVANCE* 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



Remote Sensor

**AUDIO (R and L MONO) AND VIDEO IN 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 "L2" to record from these jacks.

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

**EJECT** Ejects the tape when the VCR is stopped.

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

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

**PAUSE** Pauses action for viewing during playback. Pauses recording to prevent recording of unwanted scenes.

**PLAY** Plays a tape.

**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.

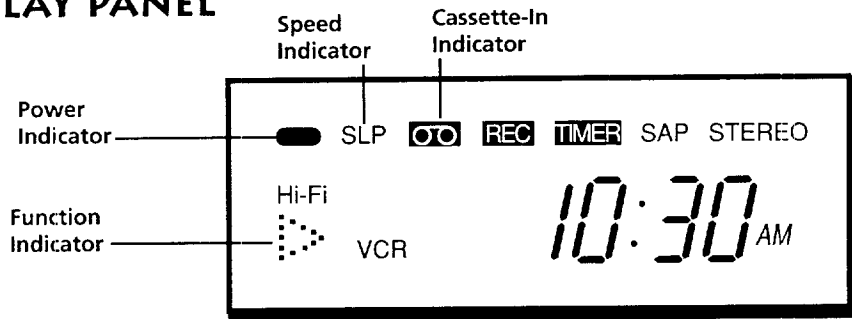
**REV** Rewinds the tape when the VCR is stopped. Searches the picture in reverse during playback. Starts slow motion during play-pause and decreases slow-motion speed.

**STOP** Stops the normal functions such as record, playback, rewind, fast-forward, or pause.

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

# APPENDIX A: REFERENCE

## DISPLAY PANEL



**Cassette-In Indicator** Lights when a cassette is inserted in the VCR.

**HI-FI Indicator** Lights during playback of hi-fi audio.

**Power Indicator** Lights when the VCR is turned on.

### Function Indicators

- **REC** and **▶** Record
- **REC** and **||** Record pause
- **▶** Playback, slow motion or frame advance
- **||** Play pause
- **◀** Flashing Rewind or reverse search
- **▶** Flashing Fast forward or forward search
- **||** Flashing Cassette ejecting

**REC Indicator** Lights during recording.

**Speed Indicator (SP or SLP)** Displays the recording speed.

**SAP Indicator** Lights when the station you are tuned to is broadcasting SAP.

**STEREO Indicator** Lights when the station you are tuned to is broadcasting stereo.

### Time, Time Counter, Channel Number, Line Input Indicator (L1 or L2), or Status Indicators

- **Time or Time Counter** Current time or time counter appears.
- **Channel Number or Line Input Indicator** The channel number or line indicator (L1 or L2) briefly appears when selected.
- **Status Indicators** Appear briefly when a function button is pressed.

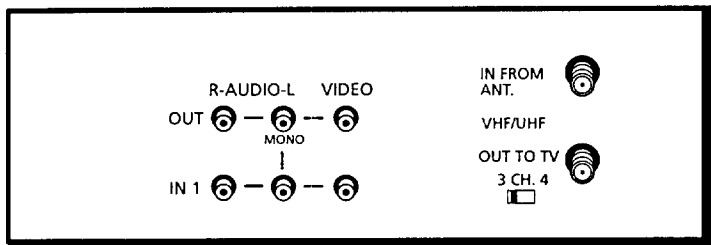
**TIMER** Lights during express recording and when VCR is turned off and set for timer recording. Flashes when timer recording is set and there is no cassette in the VCR.

**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 (R and L/MONO) 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 "L1" to record from these jacks.

**AUDIO (R and L) 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 VCR1 (VCR2•DVD) to set remote to control the VCR.
- Make sure to press the VCR1 or VCR2•DVD button on the remote to operate the VCR--whichever one corresponds to the Remote VCR1/VCR2 setting in the PREFERENCES menu.
- Check to make sure there are no objects between the VCR and remote.
- The batteries may need changing.
- Make sure to press the VCR1 or VCR2•DVD button on the remote to operate the VCR--whichever one corresponds to the Remote VCR1/VCR2 setting.
- 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, satellite receiver, or auxiliary component

- Press the correct component button to set the 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.
- 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.

# APPENDIX A: REFERENCE

- 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 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.

## **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 or satellite receiver was turned on when recording was to begin.
- Check to make sure the program was entered correctly (wrong channel or times).
- VCR cannot control cable box or satellite receiver. Check to make sure VCR was set up for cable box or DSS control or try repositioning the cable box or satellite receiver.
- 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.
- Check to make sure there was a tape in the VCR and the cassette's safety tab was intact.

# APPENDIX A: REFERENCE

- 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.
- Auto clock set is not supported by digital satellite receivers. Set the clock manually.

## **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.

## **Tape or section of tape continues to play over and over**

- Check to make sure Set Auto Repeat feature is turned off in PREFERENCES menu.

## **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

## **No stereo sound during playback**

- Check to make sure the Tape Playback feature is set to HI-FI to hear stereo sound during playback.
- Must use the AUDIO/VIDEO jacks on the back of the VCR to hear stereo sound.

## **Stereo audio too noisy**

- Stereo signal is weak. Set Reception: STEREO/SAP/MONO feature to MONO.
- Press one of the TRACKING up or down buttons to minimize the noise.

## **Index, Zero, and Blank Search Features do not Operate**

- These features do not operate if the Movie Advance feature is activated.

## **Cannot access MOVIE▶▶ADVANCE feature**

- Cassette must have safety tab removed and be recorded in SP speed.
- Home Recording was selected in the MOVIE ADVANCE menu. Eject cassette and re-insert.

## **VCR forwards through commercials or momentarily displays a blue screen during playback.**

- Commercial Advance Playback feature is set to AUTO. Set it to MANUAL.

## **COMMERCIAL▶▶ADVANCE feature does not mark commercials when:**

- The Marking feature is set to OFF in the COMMERCIAL ADVANCE menu. Set it to ON.
- A recording is less than 15 minutes or the commercial is longer than one minute.
- A single isolated commercial can not be marked.
- Recording started in the middle of a commercial segment.
- A commercial group within the first or last two minutes of a recording.
- Accuracy and effectiveness can vary depending upon program content and the characteristics of the commercials.
- A commercial is between 30-and-45 seconds and 45-and-60 seconds.
- Effectiveness may vary when local television stations insert their own commercials.

## **Commercials recorded even though COMMERCIAL▶▶ADVANCE feature was set to ON.**

- COMMERCIAL▶▶ADVANCE is designed to record the commercials, mark them, and then skip over the marked commercials during playback.

# APPENDIX A: REFERENCE

## QUESTIONS AND ANSWERS ABOUT COMMERCIAL▶▶ADVANCE

**Will commercials be scanned through only on playback of recordings?**

Yes. The VCR does not rewind and mark commercial segments until after recording is finished.

**How fast does the COMMERCIAL▶▶ADVANCE VCR scan through the commercial breaks?**

In SLP tape speed, a 3-minute commercial break is scanned through in approximately 8-12 seconds. In SP, it takes about 25-35 seconds.

**Are commercials still recorded if I want to watch them?**

Yes. The recorded program, including commercials, can be viewed by setting the Playback feature to MANUAL.

**What if the VCR scans forward through part of my program?**

Simply rewind the tape to just before the skipped segment, and press PLAY to view the program.

**Once a recording has been marked, does COMMERCIAL▶▶ADVANCE work each time the tape is played?**

Yes. If the Playback feature is set to AUTO, the marked commercials should be skipped each time the tape is played in a COMMERCIAL▶▶ADVANCE VCR.

**After marking commercials, is the tape left at the beginning or end of the recording?**

The tape is left at the end of the recording so it is in position to begin additional programmed recordings.

**Does the marking process interfere with other programmed recordings?**

No. If two or more recordings are programmed together without sufficient time to mark the first recording, marking will take place after all recordings have completed.

**What happens if the marking process is interrupted?**

Marking can be interrupted to allow use of the VCR. Marking will resume again when the VCR's power is turned off as long as the tape has not been ejected from the VCR.

**Does COMMERCIAL▶▶ADVANCE work in all recording speeds?**

Yes, COMMERCIAL▶▶ADVANCE works in SP and SLP.

**Will COMMERCIAL▶▶ADVANCE marked recordings work in non-Commercial Advance VCRs?**

A COMMERCIAL▶▶ADVANCE marked recording will play in a non-commercial advance VCR, but commercials will not automatically be skipped.

# APPENDIX A: REFERENCE

## SPECIFICATIONS

<b>Format:</b>	VHS
<b>Record/Playback System:</b>	Video: 4-head Audio: VHS Hi-Fi record/playback system
<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>	23 watts
<b>Dimensions:</b>	3.7 inches high (93 mm) 15 inches wide (380 mm) 11.3 inches deep (286 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 5, 10, 64, 67, 72
- Accessing menus 6
- Add or remove channels 16
- ADD/REMOVE CHANNELS screen 17
- Arrow buttons 6, 27
- Audio: playback type 59; selecting 59
- Audio code list 45
- Audio features, set up 59
- AUDIO menu 59
- Audio only: playing back 37; recording 37
- Audio/video jacks 5, 37, 38, 62, 63, 65, 66, 68, 70, 72
- Auto channel search 15
- AUTO CHANNEL SEARCH menu 16
- Auto clock set feature 17
- AUTO CLOCK SET screen 17
- Auto play feature 23, 29
- Auto repeat feature 57
- Auto REPEAT screen 57
- Auto TV/VCR feature 23, 63, 64, 65, 66, 67, 68
- AutoEdit feature 39
- Automatic rewind 29
- Automatic tracking 29
- AUX button 26, 45
- Auxiliary component codes 44
- Back panel 72
- Back-lit remote 26
- Basic recording 29
- Basics, learn the 25
- Batteries, installing in the remote 4
- Blank search 56
- Broadcast stereo TV recording 36
- Cable box codes 44
- Cable box setup 13
- CABLE BOX SETUP menu 13
- Cables 62: positioning 61; types of 62
- Cassette-in indicator 71
- CHAN buttons 26, 28, 42, 44, 45
- CHANNEL buttons 70
- Channel number display 71
- Channel, viewing 5
- Channels, add or remove 16
- Channels list, VCR 15
- CHANNELS menu 11, 13, 15, 16, 20, 34
- Choosing a VCR connection 63
- Cleaning the VCR 78
- CLEAR button 26, 28, 35, 36, 55, 58
- Clearing programs 36
- Codes: TV 43
- COMMERCIAL▶▶ADVANCE 48; display 50; marking 49; marking an unmarked tape 50; marking feature 49; menu 49, 50; playback 50
- COMMERCIAL▶▶ADVANCE: questions and answers 77
- Component buttons 26
- Connections 61; audio/video cable 63; choosing 63; TV with audio/video jacks 65; TV with audio/video jacks and cable box to unscramble pay channels only 66; TV with audio/video jacks and satellite receiver 68; TV with RF jack and satellite receiver 67; TV with RF jack only 64; two VCRs 38
- Contents 1
- Controls: back panel 72; front panel 70
- Copying and editing tapes 38
- Copying tapes with AutoEdit 39
- Date and time setting 17
- Digital satellite system setup 11
- Displays, on-screen 58
- DSS SETUP menu 12
- DVD code 46
- EDIT button 27, 39
- EJECT button 29, 70
- Eject, tape 29
- Express recording 32
- F.ADV button 27, 54
- First setup 3
- First things first 3
- Forward search feature 53
- Frame advance 54
- Front panel controls 70
- Front panel display 24
- Function indicators 71
- FWD button 27, 29, 38, 39, 53, 54, 55, 56, 58, 70
- GO BACK button 27, 28, 52
- Hi-Fi indicator 60, 71
- Important information 2
- IN FROM ANT. jack 5, 10, 23, 38, 62, 63, 64, 67, 72
- Index search feature 54
- INDEX SEARCH menu 55
- INFO button 27, 28, 58
- INPUT button 27, 33, 37, 38, 70
- Jacks, types of 62
- L1 indicator 37, 38, 67, 68, 71
- L2 indicator 37, 38, 67, 68, 71
- Language feature 10
- LANGUAGE menu 11
- Laser disc player code 46
- Light button on remote 26
- Limited warranty 79
- Line indicator display 71
- Locking feature 56
- Marking an unmarked tape 50
- MENU button 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 27, 33, 34, 35, 36, 48, 51, 59
- Menus, accessing 6
- MOVE arrow buttons 6, 27
- Movie advance 51
- MOVIE ADVANCE menu 52
- MUTE button 28, 42
- Number buttons 6, 19, 27, 28
- OFF button 42
- On-screen displays 58
- OUT TO TV jack 5, 10, 23, 38, 62, 63, 64, 67, 72
- Overheating 61
- PAUSE button 27, 29, 38, 39, 54, 56, 70
- Picture search options 53



# INDEX

- PLAY button
  - 27, 29, 38, 39, 53, 54, 64, 65, 66, 67, 68, 70
- Playing a tape 28
- POWER button 29, 44, 46, 56, 70
- Power indicator 71
- Power surges 61
- PREFERENCES menu 7, 22, 23, 48, 57
- Pro-Tect Plus locking feature 56
- Problem solving 73
- Programming the remote 41; to operate an auxiliary component 45; to operate a cable box 44; to operate a DVD component 46; to operate a laser disc player 46; to operate a satellite receiver 44; to operate TVs 42
- PROGRAMS OVERLAP message 33, 35
- PWR button 26, 27, 28, 29, 45
- QuickSet guide 5, 10
- REC button 27, 29, 39
- REC indicator 71
- Reception: STEREO/MONO/SAP feature 37, 59
- RECORD button 29, 32, 37, 38, 39, 70
- Recording: audio only 37; basic 29; broadcast stereo TV 36; copying and editing tapes 38; copying tapes using AutoEdit 39; express 32; SAP 36; speeds 24; timer 33; VCR plus+ 34
- Remote: buttons 26; installing batteries 4; sensor 70
- Remote VCR1/VCR2 option 22
- Remove or add channels 16
- Repeating feature 57
- REV button 27, 29, 38, 39, 53, 54, 55, 70
- Reverse search feature 53
- Review programs screen 36
- Reviewing programs 36
- Rewind, automatic 29
- SAFE indicator 56, 71
- Safety tab 30
- SAP indicator 59, 71
- SAP, recording 36
- SAT•CABLE button 26, 44
- Satellite receiver codes 12, 44
- Search: blank 56; forward 53; frame advance 54; index 54; MOVIE▶▶ADVANCE 51; reverse 53; slow-motion playback 54; using time counter 58; zero 55
- SEARCH button 27, 50, 51, 53, 55, 56
- Sensor, remote 70
- SET DAYLIGHT SAVINGS screen 18
- Set time and date manually 19
- SET TIME AND DATE menu 19
- SET TIME ZONE screen 18
- Set up: cable box 13; daylight-savings 18; digital satellite system 11; first 3; language 10; remote VCR1/VCR2 option 22; tape speed feature 24; time zone 17; using menus 10; using setup feature on VCR MAIN MENU 10; VCR 9
- Signal type: selecting 16; changing 16
- SLOW button 27, 28, 54
- Slow motion playback 54
- SLP indicator 71
- Solving problems 73
- SP indicator 71
- Specifications 78
- Speed: LP 24; SLP 24; SP 24
- SPEED button 24, 27, 29, 32, 35, 37
- Speed indicators 71
- Speeds, recording 24
- Status indicators 71
- STEREO indicator 59, 71
- STOP button
  - 27, 29, 32, 36, 37, 38, 39, 54, 55, 56, 58, 70
- Stopping a timer recording 36
- Tab, safety 30
- Table of contents 1
- Tape eject 29
- Tape playback: HI-FI/LINEAR/MIX feature 60
- Tape, playing a 28
- Tape speed feature 24
- Tape speeds 24
- Time and date setting 17
- Time counter 58
- Time counter display 58, 71
- Time display 58, 71
- TIME menu 18, 19
- Time setting: set daylight saving 18; set time zone 18
- TIMER indicator 33, 35, 71
- Timer recording 33; stopping 36
- TIMER RECORDINGS menu 33, 36
- Tips, troubleshooting 73
- TRACKING buttons 28, 29, 54, 56, 70
- Tracking feature 56
- Troubleshooting tips 73
- Turn on VCR 5
- TV button 26, 42
- TV codes 43
- TV function buttons 28
- TV, programming the remote to control 42
- TV•VCR button 23, 28, 37, 63, 64, 65, 66, 67, 68, 70, 71
- VCR, cleaning 78; channels list 15; function buttons on remote 26; plug in 5; setting up 9; turn on 5
- VCR indicator 37, 71
- VCR MAIN MENU
  - 6, 10, 11, 13, 15, 16, 17, 19, 20, 22, 33, 34, 36, 48, 57, 59
- VCR Plus+: channel list 34; channel list menu 20; menu 34; PlusCode number 35; setting up channels 20; using 34; worksheet for channels 20
- VCR viewing channel 5, 28
- VCR1 button 22, 23, 26, 39, 56
- VCR2 code 46
- VCR2•DVD button 22, 23, 26, 39, 46, 56
- Viewing channel 71
- VOL buttons 28, 42
- Warranty, limited 79
- ZERO search feature 55
- ZERO SEARCH menu 55

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

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Printed in Japan

TOCOM 15244120

VQTS3348 (A)