

video cassette recorder user's guide

VR626HF



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.

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

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

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. VR626HF	<u> </u>	 	·	
Serial No				
Purchase Date:	· . 	 		
Dealer/Address/Phone:	. <u></u>	 		
<u> </u>				

WARNING

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

IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your product, safety is a major factor in the design of every product. However, safety is your responsibility too.

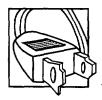
This sheet lists important information that will help to assure your enjoyment and proper use of the product and accessory equipment. Please read them carefully before operating and using your product.

Installation

1 Read and Follow Instructions—All the safety and operating instructions should be read before the product is operated. Follow all operating instructions.



- 2 Retain Instructions—The safety and operating instructions should be retained for future reference.
- **3 Heed Warnings**—Comply with all warnings on the product and in the operating instructions.
- 4 **Polarization/Grounding**—This product is equipped with either a polarized, non-polarized, or a grounding type power cord plug. If equipped with the nonpolarized type (two blades of identical size), the following does not apply.



• A polarized power plug (two blades, one wider than the other) will fit into a power receptacle only one way. This is a safety feature. Do not defeat it. If you are unable to insert the plug fully, try reversing it, or have an electrician change the receptacle. If you need an

extension cord, use only a polarized extension cord.



• A grounding type power plug (two blades and a round pin) will fit only into a grounding type receptacle with matching openings. This is safety feature. Do not defeat it. You may need an electrician to install a grounding type

receptacle. If you need an extension cord, use only a grounding type extension cord.

- 5 **Power Sources**—This product should be operated only from the type of power source indicated on the product's marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 6 Overloading—Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs



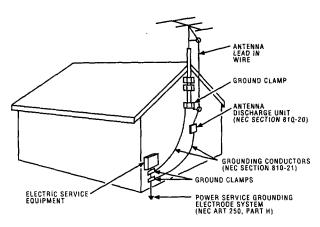
are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated 7 Power-Cord Protection—Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords where they are attached to plugs, convenience receptacles and at the point where they exit from the product.

- 8 Ventilation—Slots and openings in the enclosure are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. These openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface This product should never be placed near or over a radiator or heat register, or another heat source (including amplifiers). This product should not be placed in a built-in installation such as a bookcase or equipment rack unless proper ventilation is provided or the product manufacturer's instructions have been followed.
- **9** Attachments—Do not use attachments unless recommended by the product manufacturer as they may cause hazards.
- **10 Water and Moisture**—Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.
- **11** Accessories—Do not place this product on an unstable surface or support. The product may fall, causing serious injury to a child or adult as well as serious damage to the product. Any mounting of the product should follow the manufacturer's instructions and use only a mounting accessory recommended by the manufacturer.
- **11A** A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



12 Outdoor Antenna Grounding—If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to arounding electrodes, and requirements for the grounding electrode. See example below.

Example of Antenna Grounding



13 Power Lines—An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

Use

- **14 Cleaning**—Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 15 Object and Liquid Entry—Never push objects of any kind into this product through openings as they may touch dangerous voltage or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 16 Lightning—For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to

lightning and power line surges.



Service

- 17 Servicing—Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- **18 Conditions Requiring Service**—Unplug this product from the wall outlet and refer servicing to gualified service personnel under the following conditions.
- A. When the power-supply cord or plug is damaged.
- B. If liquid has been spilled, or objects have fallen into the product.
- C. If the product has been exposed to rain or water.
- D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a gualified technician to restore the product to its normal operation.
- E. If the product has been dropped or the cabinet has been damaged.
- F. When the product exhibits a distinct change in performance, such as the inability to perform basic functions—this indicates a need for service.
- 19 Replacement Parts—When replacement parts are required, have the service technician verify that the replacement parts he uses have the same safety characteristics as the original parts. Use of replacements specified by the product manufacturer can prevent fire, electric shock, or other hazards.
- 20 Safety Check—Upon completion of any service or repairs to this product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the product is in safe operating condition.

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HI, MY NAME IS ROGER...

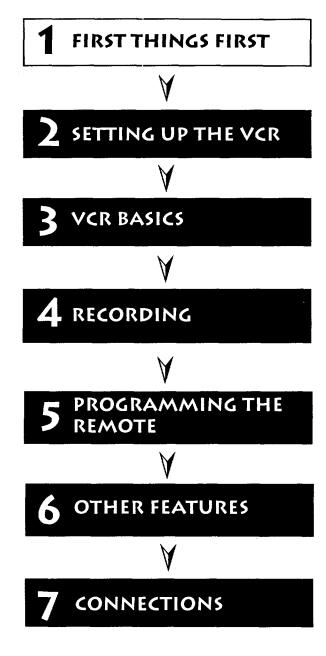
and I wrote this User's Guide. It's my job to see that you have a rewarding user manual experience. And, I think you'll be pleased with the features that can be accessed through the on-screen menus.

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.



READ ME!

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

STEP 1: UNPACK THE BOX

The following items come packed in the box:

- VCR
- Remote control
- RF coaxial cable

STEP 2: INSTALL BATTERIES IN THE REMOTE CONTROL

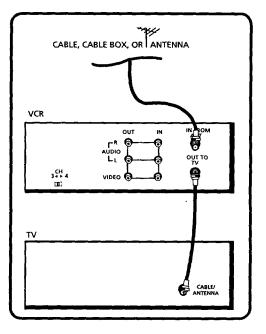
Follow these steps whenever you need to install or change the batteries in your VCR remote.

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

STEP 3: CONNECT YOUR VCR

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

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



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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, depending on the connection you've chosen.

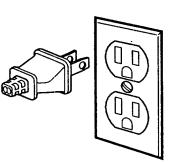
- If you connect your VCR using the ANTENNA connectors with RF coaxial cable, set the 3 CH 4 switch to channel 3 or channel 4—the channel you want to use on your TV.
- If you connect your VCR using the AUDIO/VIDEO jacks with audio/video cables, select the TV's video input. Consult your *TV Owner's Manual*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

STEP 6: TURN ON THE VCR

Press POWER on the VCR's front panel or VCR on the remote to turn on the VCR. To set up the VCR, you will need to understand how to move through and change items in the on-screen menus.

STEP 7: ACCESS THE MENUS

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



VCR Viewing Channel

When using the 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.

1. Press MENU to display the VCR MAIN MENU.



2. Press 5 to display the PREFERENCES menu.

3	PREFERENCE: Remote Control: Auto Play: Auto TV/VCR: Front Panel	
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
0 Exit
```

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

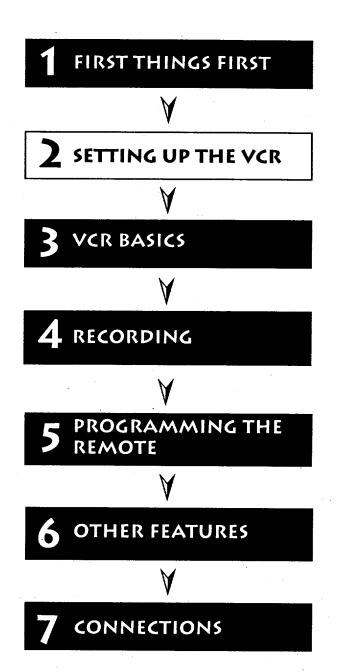
STEP 8: SET UP THE VCR

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

SET-UP FEATURES

Below is a list of features that you may want to set up before you begin using your VCR for the first time.

- Select a Language
- Set Up a Digital Satellite System
- Set Up for a Cable Box
- Set up VCR Channel List (Auto Channel Search)
- Set Daylight-Saving Time
- Set the Time and Date
- Set up VCR Plus+ Channels
- Set the Remote VCR1/VCR2 feature
- Set the Auto Play feature
- Set the Auto TV/VCR feature
- Set the Front Panel Brightness feature



USING THE MENU TO SET UP FEATURES

You can set up features by using the menu system. The features you may want to set up before you begin using your VCR are explained in this section.

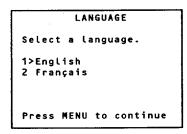
LANGUAGE

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

1. Press MENU to display the VCR MAIN MENU.

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

2. Press 7 to select the LANGUAGE menu.



3. Select English 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. Position the satellite receiver on top of the VCR as shown in the *Connections* section.

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

On-Screen Menus

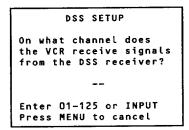
Not all the VCR screens are shown in this manual when explaining the features.

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

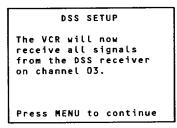
2. Press 4 to display the CHANNELS menu.

	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

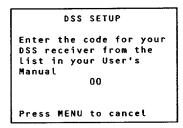
3. Press 6 to select DSS SETUP.



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



5. Press MENU and enter the code for your Digital Satellite Receiver from the Satellite Receiver Code List.

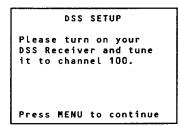


Satellite Receiver Codes

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.

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

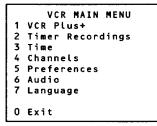


Once you have completed the setup, the VCR confirms the DSS Setup is completed or canceled.

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 remote-controllable cable boxes so it can control the cable box by changing channels for timer or VCR Plus+ recordings. Position the remotecontrollable cable box on top of the VCR as shown in *the Connections* section.
- 1. Press MENU to display the VCR MAIN MENU.



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

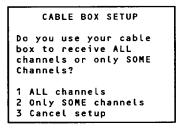
5 Cable Box Setup

6 DSS Setup

D Exit
```

DSS® is a registered trademark of DIRECTV, Inc., a unit of GM Hughes Electronics

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

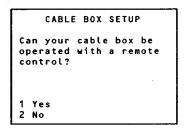


4. If you selected ALL channels, enter the output channel of your cable box (usually 03 or 04), or press INPUT for video line input and press MENU.

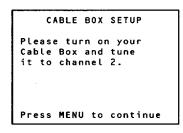
```
CABLE BOX SETUP
On what channel does
the VCR receive signals.
from the cable box?
(usually 3, 4, or Video)
--
Enter 01-13 or INPUT
Press MENU to cancel
```

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.



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



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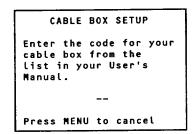
Cable Box Setup

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.

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



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

	CABLE	вох	SETU	IP
	the c to c			,
2 No	s, se), try), can	anot	ther	

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

CABLE BOX SETUP The VCR will now receive all signals from the cable box on channel 04. Press MENU to continue

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.

Cable Box Codes

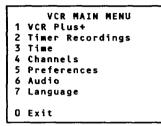
ABC	22, 46, 53, 54
Anvision	07, 08
Cablestar	07, 08
	07,08
Eastern Interna	ational 02
General Instru	ment 04, 05,
	15, 23, 24, 25, 30, 36, 46
	12, 13, 34, 48
Jerrold	
	25, 30, 36, 45, 46, 47
-	
	26, 28, 29, 32, 33, 40, 41
Oak Sigma	
Philips	
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Pioneer	
Randtek	
RCA	
Regal	
Samsung	
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Teknika Texscan	
Teknika Texscan	
Teknika Texscan Tocom Unika	
Teknika Texscan Tocom Unika Viewstar	
Teknika Texscan Tocom Unika Viewstar	
Teknika Texscan Tocom Unika Viewstar Warner Amex	
Teknika Texscan Tocom Unika Viewstar Warner Amex Zenith	

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

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To Auto Channel Search

1. Press MENU to display the VCR MAIN MENU.



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 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
```

<u>9</u>44

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.

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.

To Change the Signal Type

- 1. Press MENU to display the VCR MAIN MENU.
- 2. Press 4 to display the CHANNELS menu.
- 3. Press 3 to change the Signal Type between CABLE and ANTENNA.

To Add or Remove Channels

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

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

ADD/REMOVE CHANNELS Channel 115 is presently ADDED Press CLEAR to remove

Press MENU to exit

ADD/REMOVE CHANNELS Channel 115 is presently REMOVED

Press INFO to add Press MENU to exit

TIME AND DATE

Before you set the time and date, set the Auto DST (Daylight-Saving Time) feature to ON or OFF for your area.

Set Daylight-Saving Time

1. Press MENU to display the VCR MAIN MENU.

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

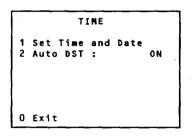
Selecting Channels

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.

- 2

2. Press 3 to display the TIME menu.



- 3. Press 2 to turn Auto DST: ON or OFF.
- Select ON if you want the VCR's clock to automatically adjust for daylight-saving time.
- Select OFF if you do not want the VCR's clock to adjust for daylight-saving time.

Set the Time and Date

- 1. Press MENU to display the VCR MAIN MENU.
- 2. Press 3 to display the TIME menu.
- 3. Press 1 to display the SET TIME AND DATE menu.



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

Spring forward; Fall backward

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

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

Time/Date Display

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

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	Preferences
6	Audio
7	Language
0	Exit

2. Press 4 to display the CHANNELS menu.

	CHANNELS
	Auto Channel Search
2	Add/Remove Channels
	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	Мy	Channel
	5		
	4		
	3 -> ->	->	
	2		
	1		
Use (:H+/- to	sei	lect
Press	; 0−9 to	cha	ange
Press	s MENU to) ex	kit

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

VCR+ Channel 5	My Channel 46
4	
3 -> ->	-> 23
2	
1	
Use CH+/- to	select
Press 0-9 to	change
Press MENU to	o 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 I
- 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.

VCR PLUS+ WORKSHEET

 $\sim 10^{-1}$

Broadcast or Cable-TV Station Name	VCR Plus+ Channel Number**	Channel Number You Receive the Station On*
НВО	33	
ESPN	34	
		-
<u> </u>		

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

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

*Check your local or cable listing for the channel number you receive this station on.

**Check your local listing for broadcast or VCR Plus+ channel number assigned.

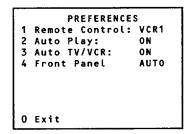
ADDITIONAL SET-UP FEATURES IN THE PREFERENCES MENU

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

1. Press MENU to display the VCR MAIN MENU.



2. Press 5 to display the PREFERENCES menu.



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

REMOTE VCR1/VCR2 OPTION

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

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

PREFERE	NCES
(PRESS VCR2 TO	CHANGE)
2 Auto Play:	ON
3 Auto TV/VCR:	ON
4 Front Panel	AUTO
0.5	
0 Exit	

	PREFERENCE	S
1	Remote Control:	VCR2
2	Auto Play:	ON
3	Auto TV/VCR:	ON
4	Front Panel	AUTO
0	Exit	

Remote Control Option

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

1

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

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

AUTO PLAY

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

- 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.

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.

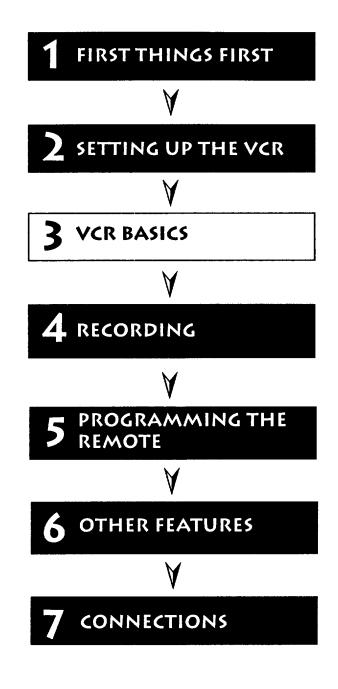
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LEARN THE BASICS TO GET YOU STARTED

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.



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

REMOTE BUTTONS

The remote control is capable of controlling your VCR and many brands of televisions. If you have an RCA, ProScan, or GE TV, you may be able to control it without having to program the remote.

COMPONENT BUTTONS

OFF Turns off VCR when remote is set to control the VCR. Also turns some compatible TVs on and off.

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

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

VCR FUNCTION BUTTONS

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

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

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

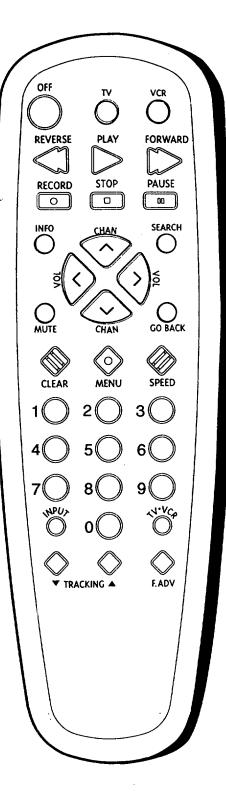
FORWARD Fast forwards the tape when the VCR is stopped. Searches forward through a tape during playback. Starts slowmotion playback when tape is paused and increases speed of slow-motion playback

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. In menu mode, press to go back to previous menu.

INFO Shows the status displays on the TV screen.

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

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



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

OFF Turns off the VCR when the remote is set to control the VCR. Turns off other components if remote is programmed.

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

PLAY Plays a tape.

: <u>e</u>s

RECORD Starts VCR recording. Also used for express recording.

REVERSE Rewinds the tape when the VCR is stopped. Searches backward through a tape during playback. Starts slow-motion playback when tape is paused and decreases speed of slow-motion playback.

SEARCH Displays Index, and Go-To Search menus on TV screen when VCR is stopped. Advances the tape 30 seconds of recorded material during playback.

SPEED Selects a recording speed (SP, LP, or SLP).

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

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

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

TV FUNCTION BUTTONS

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

CLEAR Removes menus or status displays from the screen.

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

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

MUTE Reduces volume to minimum level.

TV Buttons

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

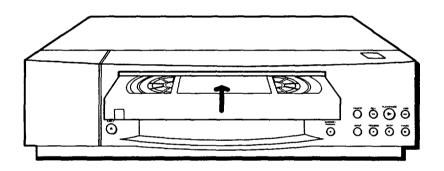
Numbers (0 through 9) Select a channel up to 99 by pressing two numbers. Select a cable channel over 99 by pressing and holding 1 until 1 - appears on the screen. Then press the other two numbers.

OFF Turns the TV off.

VOL Up and Down Raises and lowers sound of TV.

PLAYING A TAPE

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



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

- Press FORWARD or REVERSE 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 on the VCR (OFF on the remote) and the VCR will turn off after rewinding.

Pause

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

Automatic Tracking

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

TAPE EJECT

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

RECORDING

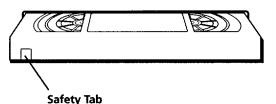
If you want to record something that you're watching, you can use basic recording.

- 1. Set the tape speed by pressing the SPEED button on the remote (see margin note for information about tape speed settings).
- 2. Press the RECORD 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.

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.

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)

Gives twice the recording time of tapes recorded in LP. If you plan on using special effects during playback, LP is not recommended.

SLP (Super Long Play)

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

Recording Time

Cassette	SP	LP	SLP
T-120	2Hr	3Hr	6Hr
T-160	2Hr 40Min	5 Hr 20 Min	8Hr

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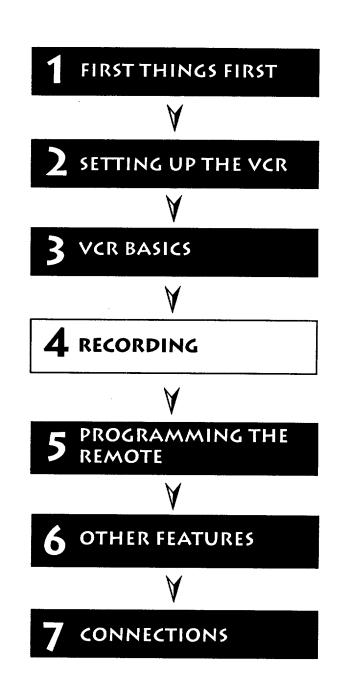
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SEVERAL RECORDING OPTIONS

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



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.

REC	Ch 13	0:00	R e R e
Press REC	to set	length	Pr

Rec Ch 13 Record Length 0:00 Press REC to set length

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.

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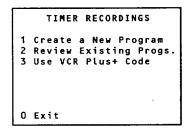
TIMER RECORDING

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

1. Press MENU to display the VCR MAIN MENU.



2. Press 2 to display the TIMER RECORDINGS menu.



3. Press 1 to Create a New Program.

```
How often should this
program record?
1 One Time
2 Daily (every day)
3<sup>.</sup> 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.

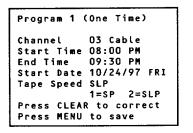
PROGRAMS OVERLAP appears if you have entered two programs where the times overlap.

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.

6. Review the information to make sure it is correct, and then 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.

- 1. Display the CHANNELS menu from the VCR MAIN MENU.
- 2. Display the VCR Plus+ Channel List menu.
- 3. Go to Setting Up Your VCR if you need more information on setting up your VCR Plus+ channel list.

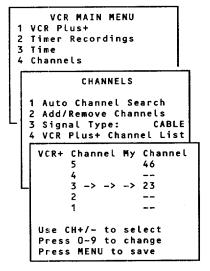
Using VCR Plus+

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

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

2. Press 1 to display the VCR PLUS+ menu.

```
VCR PLUS+
Enter PlusCode number
(from TV listing)
-
Press MENU to cancel
```



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

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	
Start Time	08:00 PM
End Time	09:30 PM
Start Date	10/24/97 Fri
Tape Speed	SLP
Press CLEAR	to correct
Press MENU	to save

2,5

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

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

7. Press MENU to save the program.

Program 1 has been saved
Remember to insert a recordable tape and turn the VCR off before the program start time.
Press MENU to continue

VCR Plus+ Recording

Clock must be set correctly.

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

The output 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. The correct channel and start & stop time will also appear if the VCR is set up to control the cable box.

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

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

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

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.

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
2	Create a New Program Review Existing Progs. Use VCR Plus+ Code
o	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*.

AU	DIO
1 Reception	
2 Tape Play	back: HI-FI
0 Exit	

- 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 (R and L) jacks on the back of the VCR.

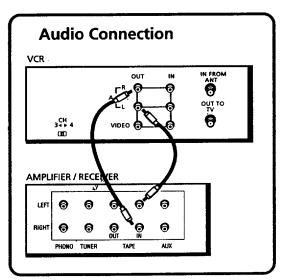
1. Press the INPUT button on the remote to select the line input (LINE).

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

USING TWO VCRS FOR COPYING AND EDITING TAPES

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

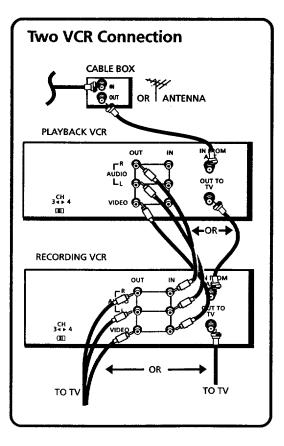
- 1. Turn on the TV and VCRs.
- 2. Tune the TV to the VCR viewing channel (either 3, 4, or TV's video input).
- 3. If you connected your VCR using the IN FROM ANT and OUT TO TV jacks, tune *recording VCR* to channel 3 or 4--the one selected on the back of the *playback VCR*.

If you have connected your VCR using the audio/video jacks, make sure you select the line input on the *recording VCR*.

- 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 television programs or other copyrighted materials may infringe the rights of others.

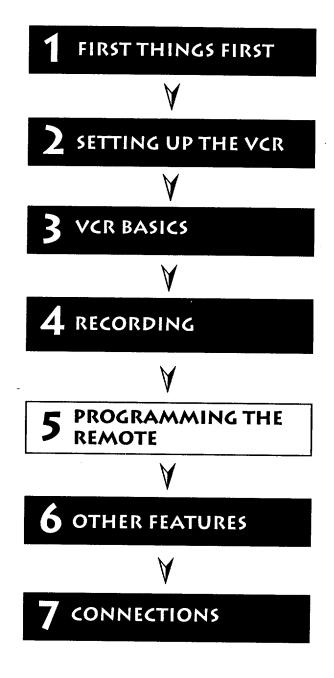


PROGRAMMING THE REMOTE

CONTROL YOUR TELEVISION

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The remote may also operate your TV. Initially, it is programmed to control RCA, GE, and ProScan models. Other manufacturers' brands need to be programmed.



PROGRAMMING THE REMOTE

USING THE REMOTE WITH A TV

Your remote can control most RCA, ProScan, and GE TVs. To use the remote with other manufacturer's brands, it must be programmed. 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.
- 3. Press and hold the TV button on the remote.
- 4. Enter the 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 OFF button.

 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.

Akai 03	NAD 07
AOC 06,12	NEC 06
Candle 06	Panasonic 04,08,11
Citizen 06	Philco 04,06,12
Colortyme	Philips 03,04,06, I 2
Concerto	Pioneer 06
Curtis Mathes 01,06	Portland 06, I 2
Daewoo 06,12	ProScan 01
Daytron 06	Proton 06
Electrohome 06,12	Quasar 11
Emerson 06	Radio Shack 01,05,13
Envision 05,06	RCA01,06,12
Fisher 05,08	Realistic 05
GE	Sampo 06
Goldstar 06,12	Samsung 06,09,12
Hallmark	Sanyo 05,08
Hitachi 06,14	Sears01,05,06,07,08,10,12
Infinity 04	Sharp
JC Penney . 00,01,06,09,12	Sony 03
JBL 04	Soundesign 06
Jensen 06	Sylvania
JVC 10,11	Technics I I
Kawasho 03,06	Techwood 06
Kenwood 06,12	Teknika 06
Loewe 04	ТМК 06
Luxman 06	Toshiba 05,07,08,09
LX1 04,05,07	Universal 00
Magnavox 04,06,12	Victor
Marantz 04,06	Wards 00,01,04,06,12,13
MGA 06,12	Yamaha 12
Mitsubishi 06,12	Zenith 02
MTC 06	

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.

- C

FRAME ADVANCE

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

- 1. Press PAUSE 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:

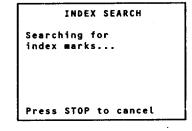
- 1. Press STOP.
- 2. Press SEARCH on the remote until the INDEX SEARCH menu appears on the TV screen.
- 3. If you want to search through a certain number of index marks, press two number buttons to enter the number of marks you want to search. Press CLEAR on the remote to correct an entry.
- 4. Press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

Some index marks may be missed by the VCR:

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

INDEX SEARCH Press REV OR FWD to begin scanning OR enter a specific index number ---Press SEARCH to exit

INDEX SEARCH Searching for index number 12... Press STOP to cancel



GO-TO SEARCH

The Go-To search feature enables the VCR to quickly locate a counter reading anywhere on the tape. When the VCR locates the counter reading, it will begin playback.

- 1. Press STOP.
- 2. Press SEARCH on the remote until the GO-TO SEARCH menu appears on the screen.
- Press number buttons to enter the hour(s) and/or minutes of the counter reading you want the VCR to "go to". Press CLEAR on the remote to correct an entry.
- 4. Press FORWARD (FWD) to search forward or REVERSE (REV) to search in reverse.
- 5. Press STOP to stop Go-To searching.

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 VCR at the same time, or eject the tape and re-insert it.

Tracking only effects playback-not recording.

TIME COUNTER

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

GO-TO SEARCH Current tape counter is 2:17:25 Press REV or FWD to go to -:--:00 Press SEARCH to exit

GO-TO SEARCH Searching for D:DD:DO...

Press SEARCH to exit

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

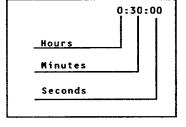
- 1. Press INFO twice on the remote to display the time counter.
- 2. Press CLEAR to reset the time counter to 0:00:00.
- 3. Press FORWARD (FWD) to forward the tape until the time counter reads 0:30:00.
- Press STOP. This is the approximate end of the program. (You may want to press PLAY to verify.)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

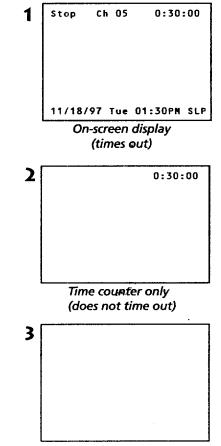
ON-SCREEN DISPLAYS

10

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

- 1. Press INFO to see all of the on-screen displays. These will automatically time out after a few seconds.
- 2. Press INFO again to have only the time counter remain on the screen. This display does not time out automatically.
- 3. Pressing INFO a third time disables the on-screen displays. This feature prevents you from accidentally recording onscreen displays while copying tapes.
- 4. Press INFO to see all of the on-screen displays again.





On-screen Display off

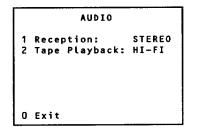
AUDIO SET-UP FEATURES

The audio set-up features enhance your tape playback and recordings. The features in this section are accessed through the AUDIO menu and are shown in the displays below.

1. Press MENU to display the VCR MAIN MENU.

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

2. Press 6 to display the AUDIO menu.



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

RECEPTION

Some TV programs are broadcast with stereo audio or a second audio program (SAP) which offers a second language. The Reception feature lets you select the type of audio you want to record. Press 1 to switch between Reception: STEREO, MONO, and SAP.

- Select STEREO for normal or stereo broadcast TV recording.
 STEREO indicator appears on the TV screen when the station you are tuned to is broadcasting stereo.
- Select MONO if the stereo signal is weak and the sound is too noisy.

• Select SAP to record a second audio program instead of the normal audio on both the hi-fi and linear tracks. The SAP indicator appears on the TV screen when the station you are tuned to is broadcasting SAP.

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.
- 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.

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THINGS TO KNOW BEFORE CONNECTING COMPONENTS

Protect Your Components from Power Surges

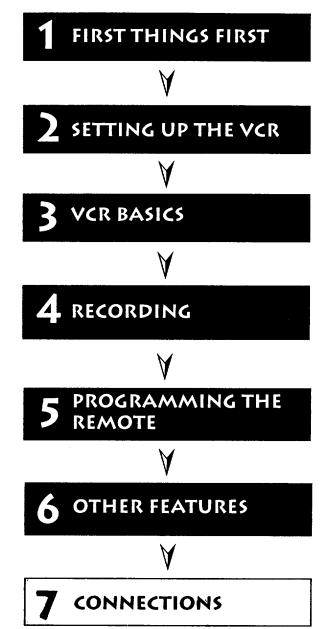
- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the TV and other components before you connect or disconnect any cables.

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.

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.



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.

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 must be used for stereo sound. The VCR audio/video jacks are color coded (yellow for video, red for right audio, and white for left audio). If your TV has only one input for audio (mono), you may need a Y-adapter to hear sound from both channels.

RF läck



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 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.

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:

2

- 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 3CH4 switch on the back of the VCR.

Auto TV/VCR Setting:

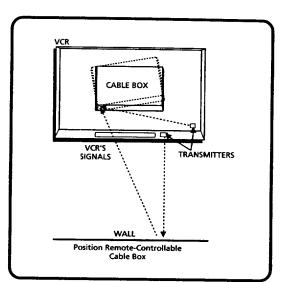
Set the Auto TV/VCR feature to ON.

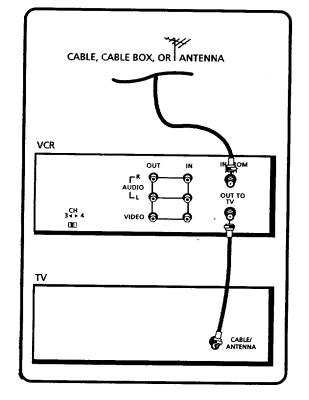
To play a tape:

- 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.





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:

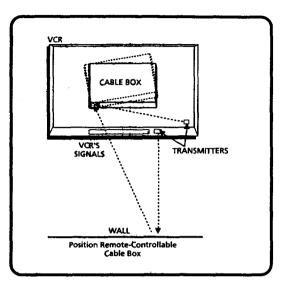
Set the Auto TV/VCR feature to OFF.

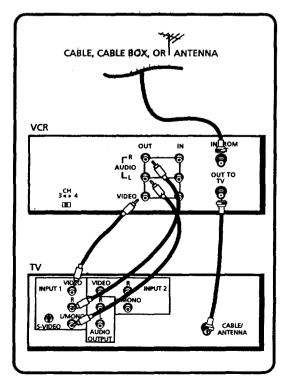
To play a tape:

- 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.





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:

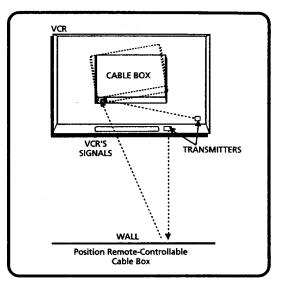
• Set the Auto TV/VCR feature to OFF.

To play a tape:

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

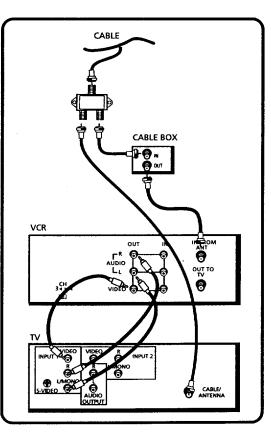
To record a scrambled or unscrambled program and watch another unscrambled program:

- 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 11.



TV WITH RF JACK AND SATELLITE RECEIVER

This connection assumes:

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

This connection provides:

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

If your digital satellite receiver 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 use this connection, you must have:

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

To connect:

 $\frac{1}{2}$

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

Using This Connection

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

Auto TV/VCR Setting:

• Set the Auto TV/VCR feature to ON.

To play a tape:

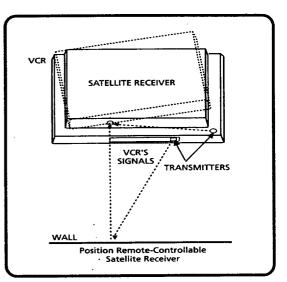
- 1. Insert a tape.
- 2. If necessary, press VCR and then PLAY.

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

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

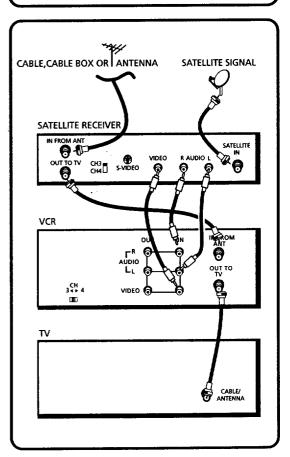
To record a satellite receiver program:

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



Caution

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



TV WITH AUDIO/VIDEO JACKS AND SATELLITE RECEIVER

This connection assumes:

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

This connection provides:

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

If your digital satellite receiver 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 use this connection, you must have:

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

To connect:

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

Using This Connection

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

Auto TV/VCR Setting:

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

To play a tape:

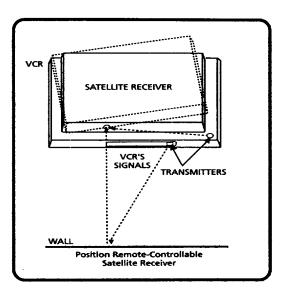
- 1. Insert a tape
- 2. If necessary, press VCR and then PLAY.

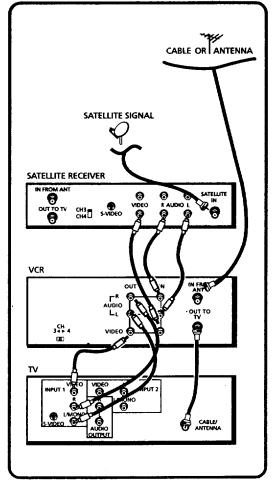
To record one off-air or cable program and watch another:

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

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

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





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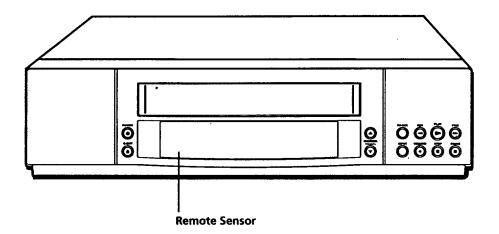
This section gives you some additional information about the VCR, including a description of the unit's controls and display.

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

Finally, this section contains your warranty information.

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FRONT PANEL



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

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 playback 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 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.

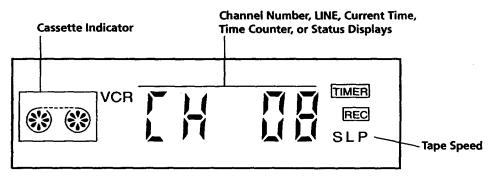
Remote Sensor Receives signals from the remote control. Aim the remote at this sensor.

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

DISPLAY PANEL



Cassette Indicator Shows when a cassette is inserted and displays direction tape is moving.

Time, Time Counter, Channel Number, Line Input Indicator (LINE), or Status Displays

Time or Time Counter Press INFO to switch between the current time and time counter.

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

Status Indicators Show what the VCR is doing.

- EJECT Ejecting tape
- F-FWD Fast forward
- PLAY Playback
- REC Record

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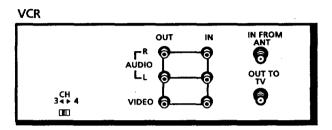
- **REW** Rewind
- SLOW Slow motion
- SEARCH + or Forward or reverse search
- STILL Play pause and frame advance
- STOP VCR stopped
- X-REC Express recording

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

VCR Indicator (Applies only if the VCR Viewing Channel is 3 or 4). Press the TV-VCR button to turn on or off.

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

BACK PANEL



3CH4 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) 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 LINE 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.

TROUBLESHOOTING TIPS

No power

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

VCR does not respond to remote

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

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

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

Remote no longer controls a compatible TV

- Press TV to set remote to control the compatible TV.
- 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 3CH4 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.
- 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.

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 PlusCode is entered.
- Check to make sure the cable box was turned on when recording was to begin.
- Check to make sure the program was entered correctly (wrong channel or times).
- 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.
- 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 addithe cassette's safety tab was intact.
- VCR ejects cassette when the end of the tape is reached during a timer recording.
- Check to make sure VCR Plus+ channel setup was completed correctly.

Clock shows incorrect time or date

- Power interruption.
- Check to make sure the clock is set accurately (check AM/PM and date).
- Check Daylight-Saving setting. The clock may have adjusted for daylight-saving time.

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.
- If you are using a cable box to tune all channels, this feature is not necessary. Contact your local cable company for more information.

Tape plays back in slow motion

Press PLAY to return to normal playback.

Cannot select channels over 69

Cable channels over 69 can only be selected if Signal Type: CABLE/ANTENNA feature is set to CABLE.

Cassette with safety tab removed does not start to play automatically

Check to make sure the Auto Play ON/OFF feature is set to ON.

TIMER Indicator flashes in display

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 or French

Check Language feature.

No stereo sound during playback

- Check to make sure the Playback: HI-FI/LINEAR/MIX 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/MONO/SAP feature to MONO.
- Press one of the TRACKING up or down buttons to minimize the noise.

SPECIFICATIONS

Format:	VHS
Record/Playback System:	Video: 4-head Audio: 2 Hi-Fi record/playback system
Video Signal System:	EIA standard: NTSC color
Antenna:	75-ohm external VHF/UHF combined antenna terminal
Tuner:	USA: 181 channels capability* (125 cable channels)
	Canada: 178 channels capability* (122 cable channels)
Туре:	AutoProgramming frequency synthesis
Power Requirement:	120V AC, 60 Hz
Power Consumption:	18 watts
Dimensions:	3.6 inches high (92.5 mm) 15 inches wide (380 mm) 12.4 inches deep (313.5 mm)
Weight:	9.2 pounds (4.2 kg)
Storage Temperature Range:	- 22°F to +149°F (-30°C to +65°C)
Operating Temperature Range:	+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.

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.

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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.

CONSUMER ELECTRONICS

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