

VG4259



VCR User's Guide



We bring good things to life.

Important Information

WARNING

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

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

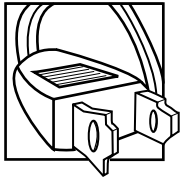


This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Cautions



Caution: To prevent 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 on the back of the product for the proper operating voltage.

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

Note To 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. **VG4259** _____

Serial No. _____

Purchase Date: _____

Dealer / Address / Phone: _____

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Choosing a Hookup

The hookups on pages 3 through 5 are divided into two hookup types: Basic (A) and Advanced (B).

The basic hookup shows the backs of TVs that have only an antenna/cable connection. It is the easier of the two and additional accessories may not be needed.

The advanced hookup shows the VCR hooked up to a TV with audio and video jacks. This connection may improve the picture quality as well as convenience of operation.

Answer the questions to choose the hookup for your VCR.

1. How does your TV receive signals?

Choose one answer from below.

- A. Outside antenna – Turn to page 3.
- B. Rabbit ears (set-top) and/or bow tie antenna – Turn to page 3.
- C. Cable System – Go to question 2.

2. What type of Cable-TV system* do you have?

Choose one answer from below.

- A. Cable without a box – Turn to page 3.
- B. Cable box to unscramble all the channels – Turn to page 4.
- C. Cable box to unscramble only pay channels, such as HBO, Showtime, Cinemax, etc. – Turn to page 5.

Optional Hookups

How to hook up two VCRs for copying tapes.

- A. Select a hookup by answering questions 1 and 2 above.
- B. Then, modify the connections as shown on page 6.

*You may need to contact your local cable company for assistance.

Antenna or Cable System Without a Cable Box

A. Basic hookup.

Use this hookup for a basic connection which requires fewer accessories.

1. Set the **3CH.4** switch on back of VCR to either channel 3 or 4.

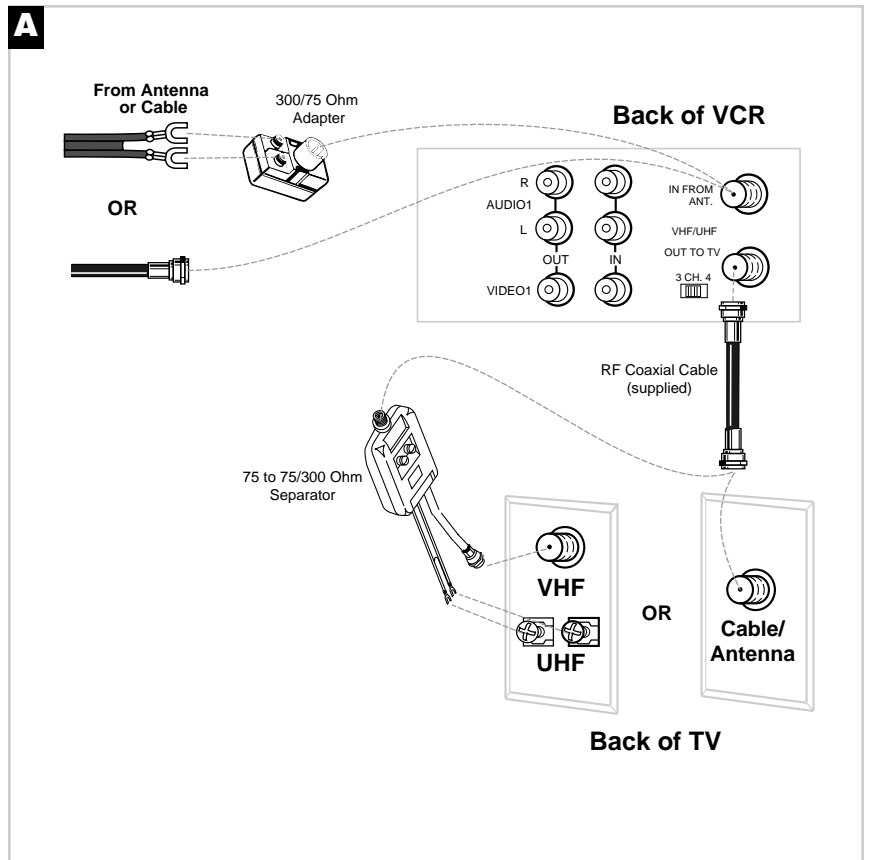
Tune the TV to this channel and use the TV•VCR button to watch the VCR.

2. **Connect as shown.**

This connection may require additional accessories not provided.

3. **Plug in power cords of VCR and TV.**

4. **Go to "Startup" section.**



B. Advanced hookup.

Use this hookup for slightly improved picture quality, Hi-Fi stereo playback, and more convenient operation — use of the TV•VCR button is not required.

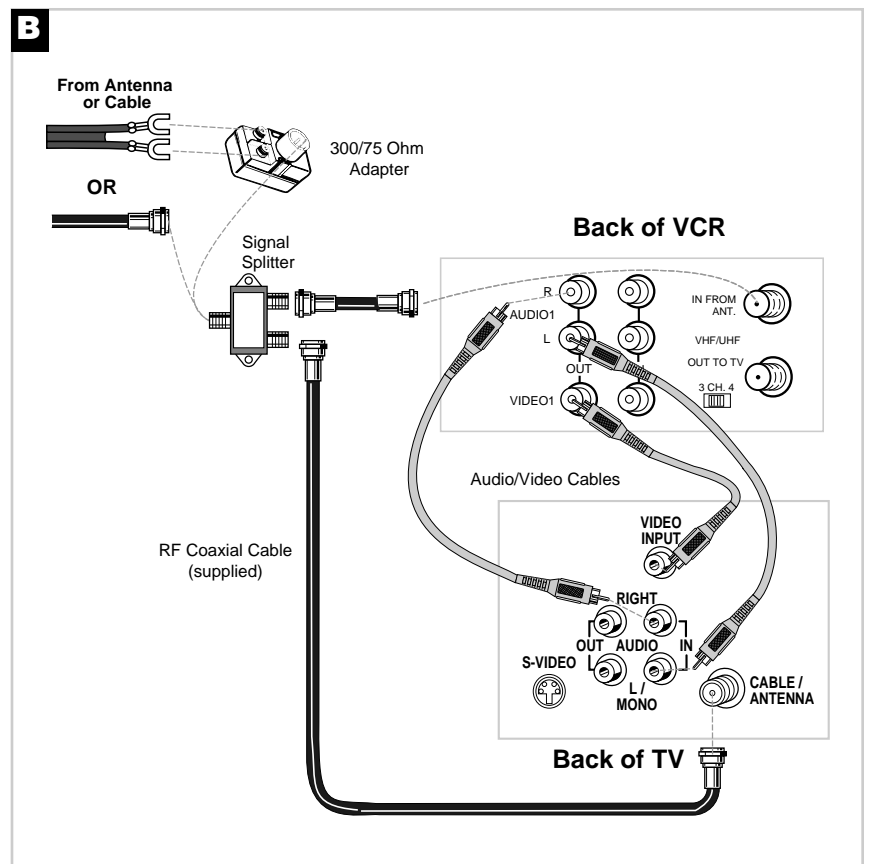
1. **Connect as shown.**

This connection requires additional accessories not provided. A Y-adapter may be required to hear sound from both left and right channels if your TV is not stereo.

2. **Plug in power cords of VCR and TV.**

3. **Go to "Startup" section.**

Tune the TV to its video input to watch the VCR.

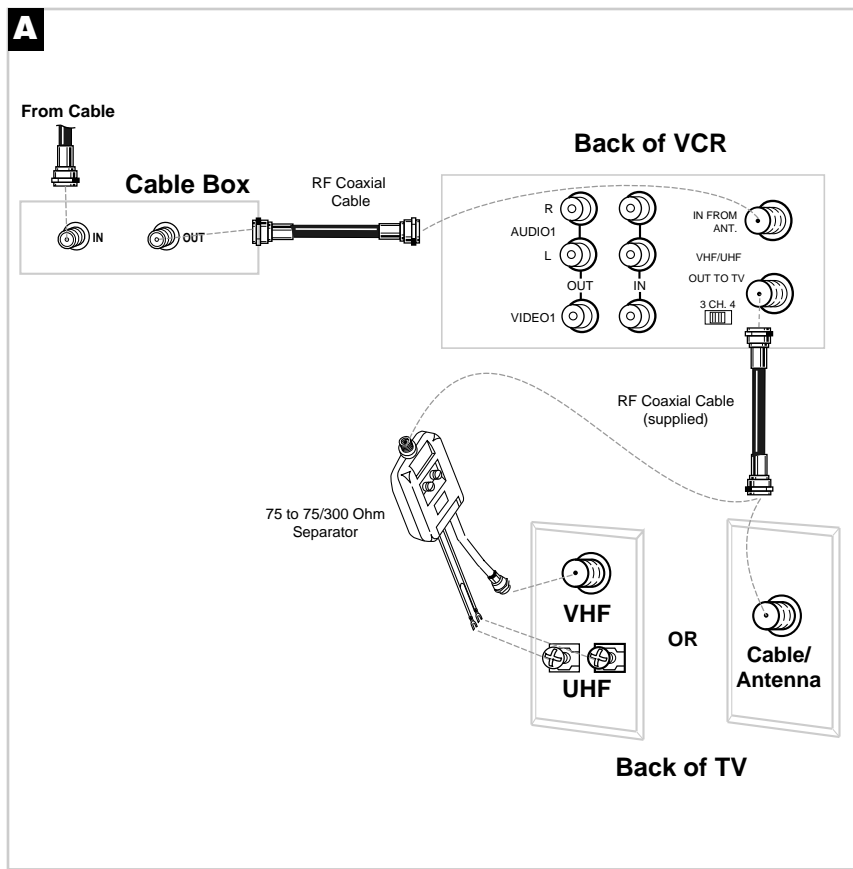


Cable System With Cable Box to Unscramble All Channels

A. Basic hookup.

Use this hookup for a basic connection which requires fewer accessories.

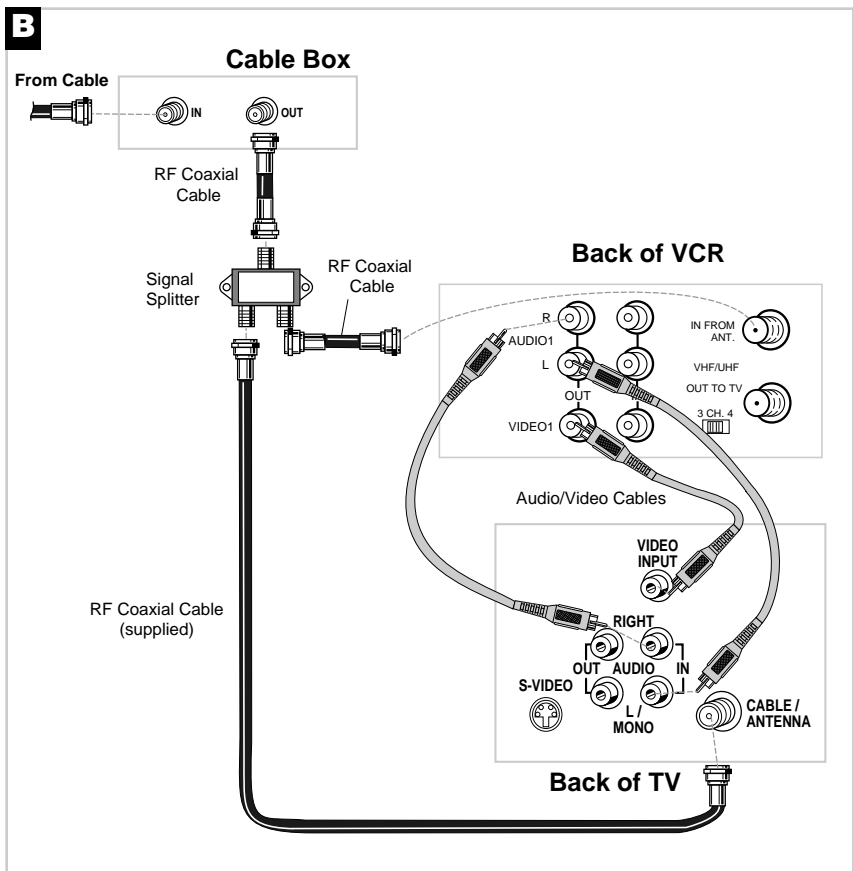
1. Set the **3CH.4** switch on back of VCR to either channel 3 or 4.
Tune the TV to this channel and use the TV•VCR button to watch the VCR.
2. **Connect as shown.**
This connection may require additional accessories not provided.
3. Plug in power cords of VCR, TV, and cable box.
4. **Go to "Startup" section.**



B. Advanced hookup.

Use this hookup for slightly improved picture quality, Hi-Fi stereo playback, and more convenient operation — use of the TV•VCR button is not required.

1. **Connect as shown.**
This connection requires additional accessories not provided. A Y-adaptor may be required to hear sound from both left and right channels if your TV is not stereo.
2. Plug in power cords of VCR, TV, and cable box.
3. **Go to "Startup" section.**
Tune the TV to its video input to watch the VCR.



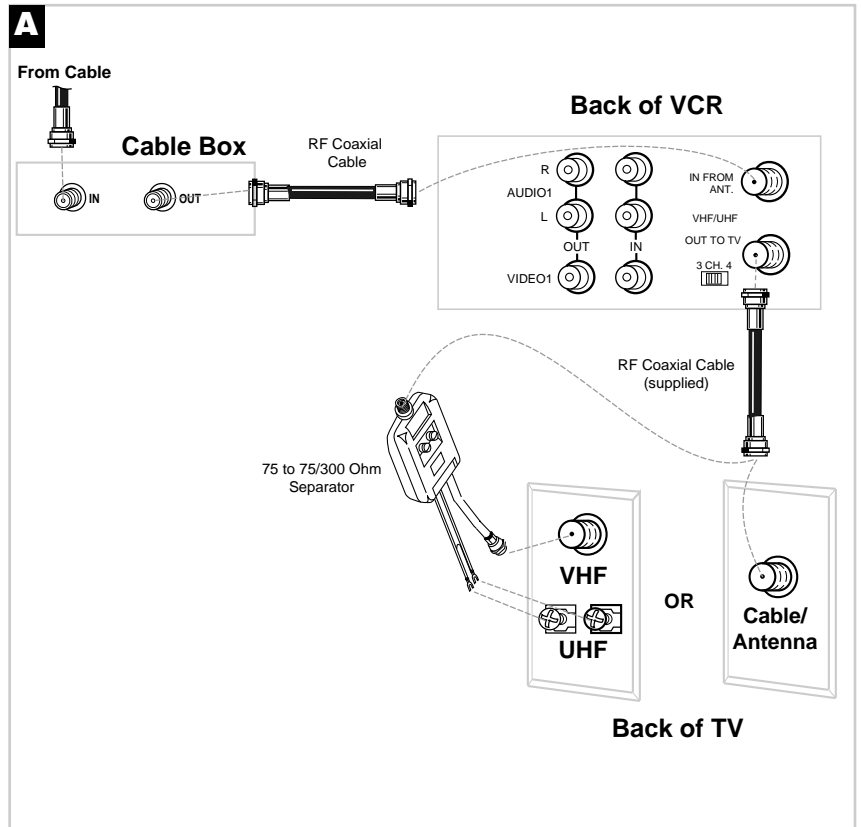
Cable System With Cable Box to Unscramble Pay Channels Only

(such as HBO, Showtime, Pay-Per-View, etc.)

A. Basic hookup.

Use this hookup for a basic connection which requires fewer accessories.

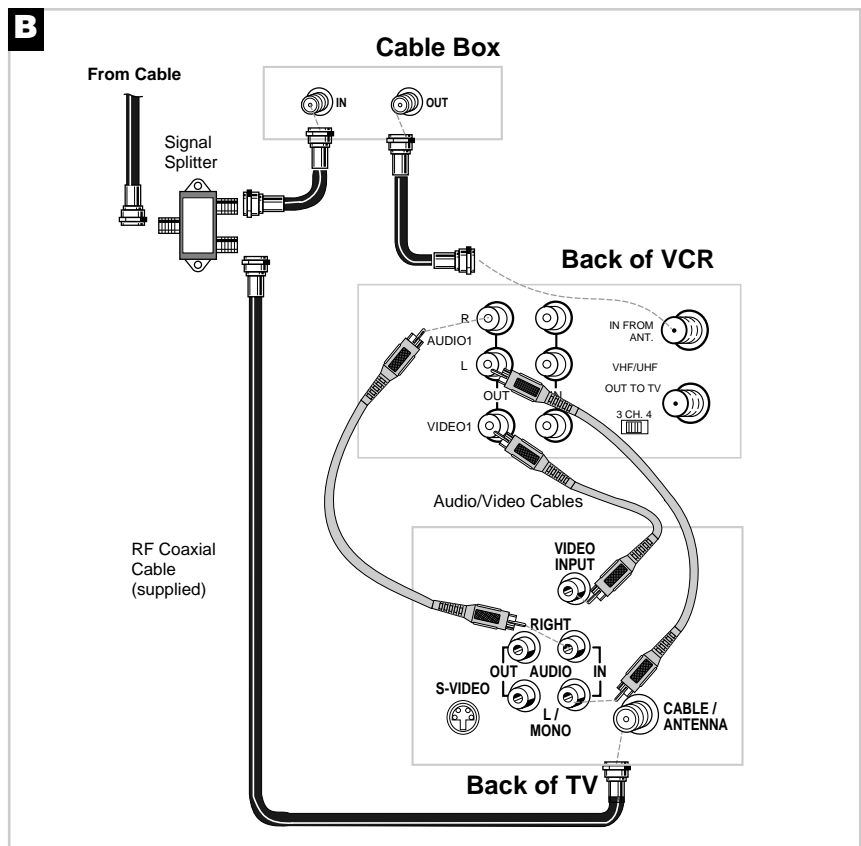
1. **Set the 3CH.4 switch on back of VCR to either channel 3 or 4.**
Tune the TV to this channel and use the TV•VCR button to watch the VCR.
2. **Connect as shown.**
This connection may require additional accessories not provided.
3. **Plug in power cords of VCR, TV, and cable box.**
4. **Go to "Startup" section.**



B. Advanced hookup.

Use this hookup for slightly improved picture quality, Hi-Fi stereo playback, and more convenient operation — use of the TV•VCR button is not required.

1. **Connect as shown.**
This connection requires additional accessories not provided. A Y-adaptor may be required to hear sound from both left and right channels if your TV is not stereo.
2. **Plug in power cords of VCR, TV, and cable box.**
3. **Go to "Startup" section.**
Tune the TV to its video input to watch the VCR. View all pay channels through the VCR.

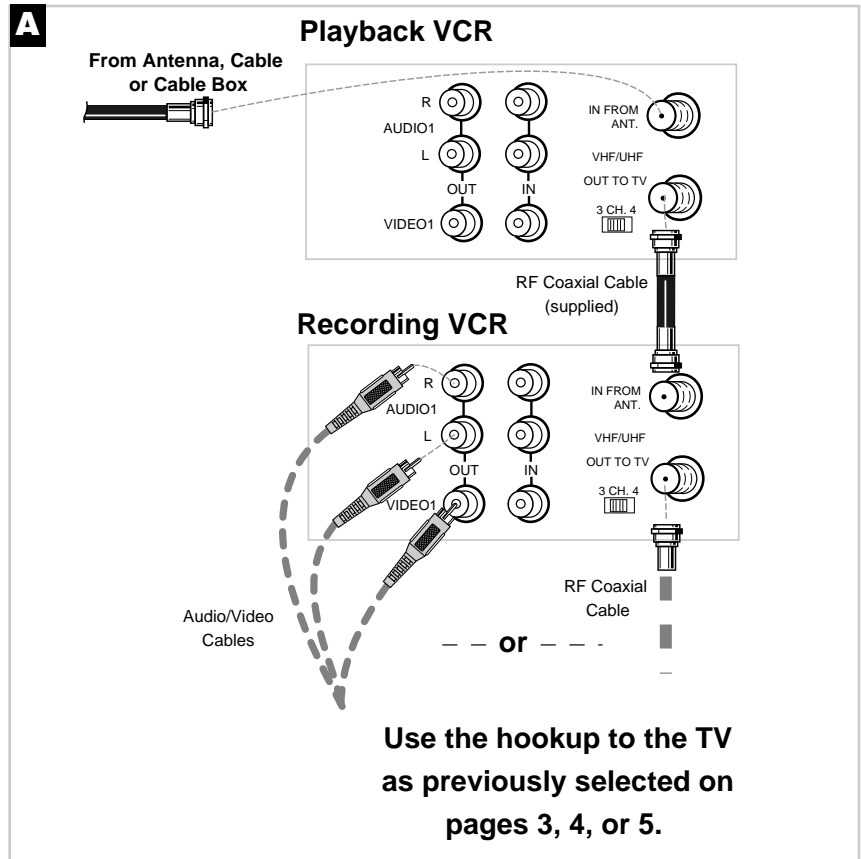


Connecting Two VCRs for Copying Tapes

Option A hookup.

Use this hookup for a basic connection which requires fewer accessories.

1. Select a hookup from pages 2 through 5 and then modify with this connection.
2. Set the 3CH.4 switch on the playback VCR to either channel 3 or 4.
Tune the recording VCR to this channel to receive the signal from the playback VCR.
3. Connect as shown.
This connection may require additional accessories not provided.
4. Plug in power cords of VCRs and TV.
5. **Go to "Startup" section.**



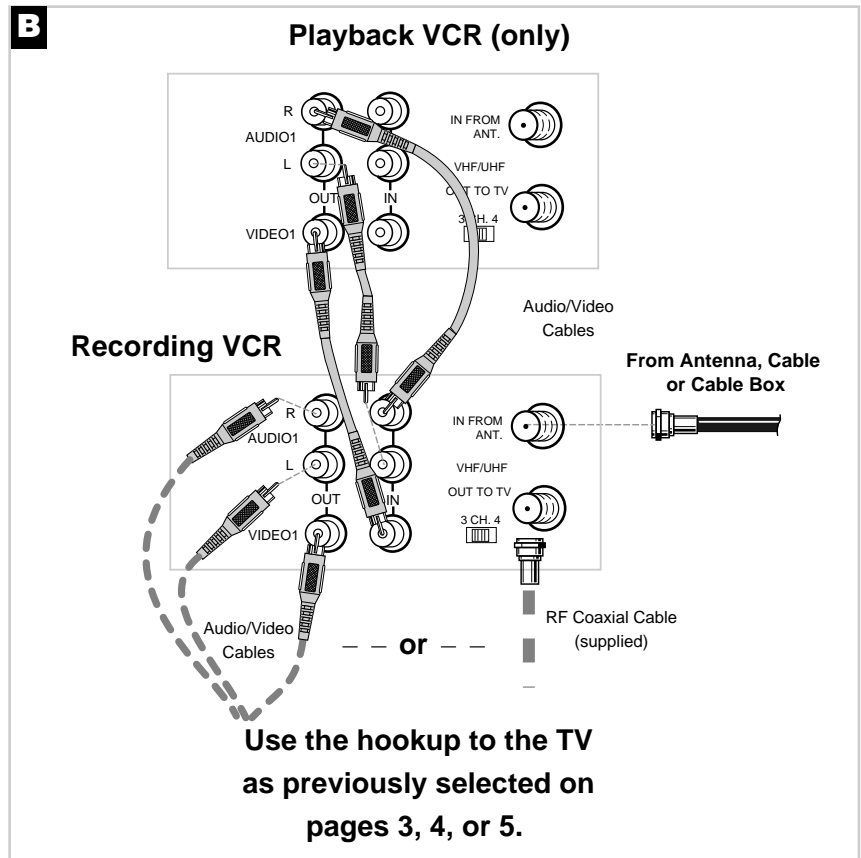
Option B hookup.

Use this hookup for slightly improved copy quality, Hi-Fi stereo playback, and more convenient operation — use of the TV•VCR button is not required.

1. Select a hookup from pages 2 through 5 and then modify with this connection.
2. Connect as shown.
This connection requires additional accessories not provided. A Y-adapter may be required to hear sound from both left and right channels if your TV is not stereo.
3. Plug in power cords of VCRs and TV.
4. **Go to "Startup" section.**

Select the line (audio/video) input on the recording VCR to receive the signal from the playback VCR.

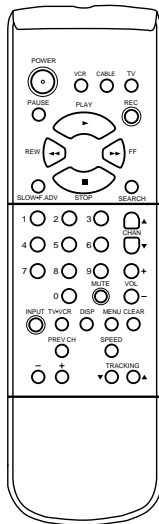
Caution: The unauthorized recording of television programs and other materials may infringe the rights of others.



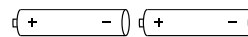
Startup

1. Check accessories with VCR.

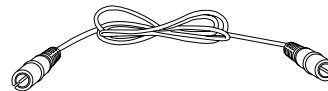
Contact your dealer if any items are missing.



Remote
(Stock No. 234011)

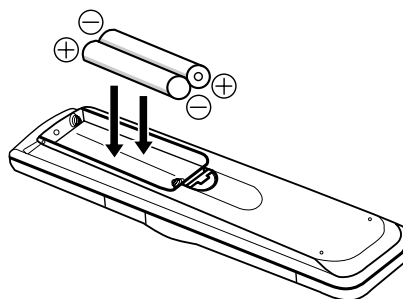
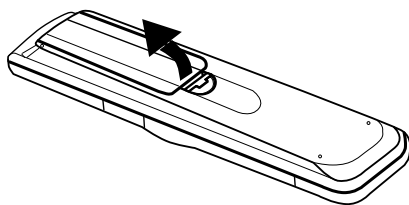


2 "AA" Batteries



RF Coaxial Cable
(Stock No. 221346)

2. Insert batteries in remote.



3. Turn on the TV.

- A. Turn on the TV.
- B. If you used one of the basic hookups, tune the TV to the channel selected with the 3CH.4 switch on back of VCR.
If you used one of the advanced hookups, tune the TV to the TV's video input.
(See TV owner's manual for details.)

4. Turn on the VCR.

- A. Press VCR on the remote.
The POWER and VCR indicators appear in the VCR display panel. --:-- appears in the clock area of the display panel.

Startup

5. Place channels in the VCR's memory.

The first time you turn on the VCR or after a power interruption, the VCR displays a message on the TV screen prompting you to perform the AUTO CHANNEL SEARCH. If the message does not appear, go to Step A below. If the message appears, follow the directions on the screen.

The AUTO CHANNEL SEARCH feature memorizes the channel list available through your signal type—cable or antenna. The signal type is automatically selected when you auto channel search. Also, should you change your signal system, you must perform Auto Channel Search.

Wait until the channel numbers stop changing. This takes about one to two minutes. The TV tunes to the lowest channel found. Pressing CHANNEL up or down selects only the active channels.

- A. Press MENU on the remote to display the VCR MAIN MENU.
 - Make sure the TV is tuned to same channel as the 3CH.4 switch on the VCR or the TV's video input (refer to TV's manual).
 - Press VCR, then press MENU again.
 - If you use a basic hookup, check the VCR indicator in display panel — it should be on. Press TV•VCR to turn it on.
 - Check the connections.

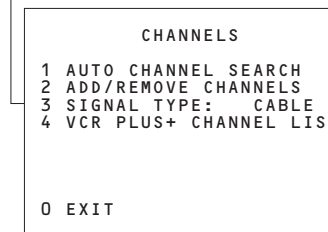
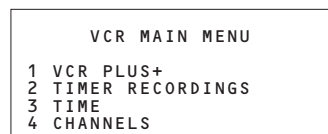
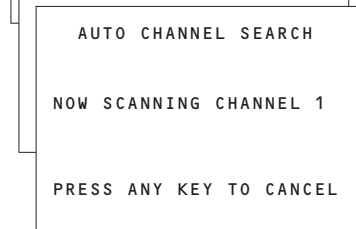
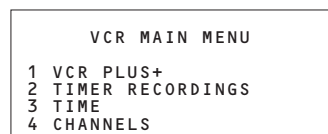
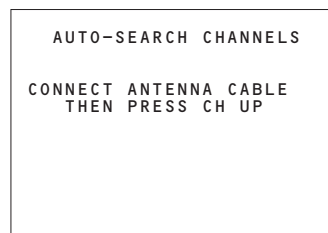
- B. Press 4 to display the CHANNELS menu.

- C. Press 1 to begin AUTO CHANNEL SEARCH.

The VCR automatically selects the CABLE (cable TV) or ANTENNA signal. For cable connection, 125 channels are searched; for an antenna connection, 69 channels are searched.

To change the SIGNAL TYPE:

- A. Follow steps A-B above.
- B. Press 3 to switch the SIGNAL TYPE between CABLE and ANTENNA.

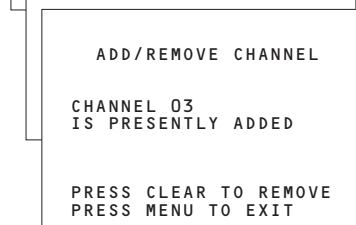
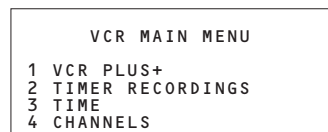


6. Add or remove channels from the VCR's memory.

You may want to add or remove channels if some of the channels are not active, have weak signals, or you do not want to watch them.

We recommend channels be placed in memory using the AUTO CHANNEL SEARCH feature before adding or removing channels.

- A. Press MENU on the remote to display the VCR MAIN MENU.
- B. Press 4 to display CHANNELS menu.
- C. Press 2 to display ADD/REMOVE CHANNEL screen.
- D. Use CHANNEL up and down or the number buttons to go to channels you want to add or delete.
- E. Follow the on-screen directions.

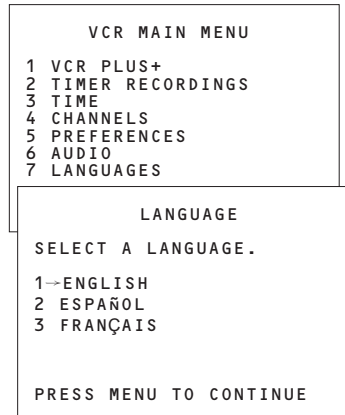


Startup

7. Select the language.

The VCR displays the on-screen menus in the English, Spanish, or French language. The word "Language" cycles through the different languages when the VCR MAIN MENU is displayed on the TV screen.

- A. Press MENU on remote to display the VCR MAIN MENU.
- B. Press 7 to display the LANGUAGE, IDIOMA or LANGUE menu. The arrow indicates which language is selected.
 - Press 1 to have the menus displayed in English (Ingles).
 - Press 2 to have the menus displayed in Spanish (Español).
 - Press 3 to have the menus displayed in French (Français).



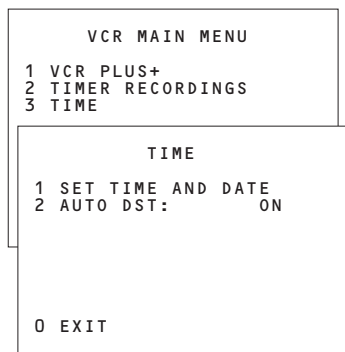
8. Set the automatic daylight-saving time.

Select this feature if you want the VCR's clock to advance automatically one hour in April and reverse one hour in October.

- A. Press MENU on the remote to display the VCR MAIN MENU.
- B. Press 3 to display the TIME menu.
- C. Press 2 to switch AUTO DST between ON and 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 automatically adjust for Daylight Saving Time.

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 that any part of a scheduled Timer Recording that falls between these two times will not be recorded.

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.

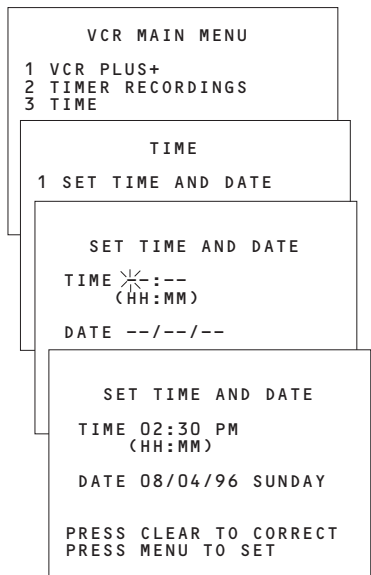


9. Set the time and date.

The time does not appear in the display panel until the clock is set.

- A. Press MENU on the remote to display the VCR MAIN MENU.
- B. Press 3 to display the TIME menu.
- C. Press 1 to display the SET TIME AND DATE.
- D. Use the number buttons on the remote to enter the time including AM or PM, month, day, and year. The day of the week will automatically appear after you enter the year.
 - Press 0 before single-digit numbers. Press 1 for AM or 2 for PM. Example: press 0, then 5, then 0, then 7, then 2 for a time of 5:07 PM.
 - Press CLEAR on the remote at any time to change incorrect entries.
- E. Press MENU to set the clock.
- F. Press 0 to exit the menus.

The time appears in the VCR's display panel. To display the time and date on the screen, press DISP on the remote.



Startup

10. Use TV•VCR button.

Skip this step if you used one of the advanced hookups.

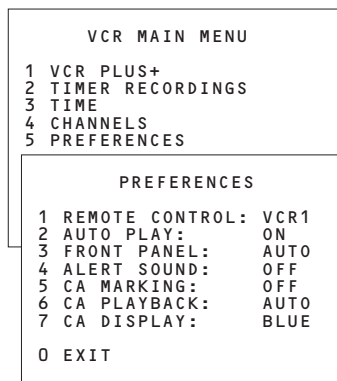
When using one of the basic hookups, the TV•VCR button lets you switch between the picture coming from the VCR or television channels. This button lets you record a program on the VCR while watching another channel on the TV. *Details are in the "Recording" section.*

- A. Press VCR to set the remote to control the VCR.
- B. Press TV•VCR to see the picture from the VCR. The VCR indicator lights in the display panel.
- C. Press CHANNEL up or down to change channels on the VCR. The channel number followed by the station name (if broadcast) appears for a few seconds on the TV screen.
- D. Press TV•VCR to see the TV channels. The VCR indicator does not light in the display panel. Change channels using the TV's remote.
- E. Return the TV to the VCR viewing channel — CH3 or CH4.
- F. Press VCR, then TV•VCR to switch back to the picture from the VCR.

11. Set the display panel brightness.

This VCR lets you change the brightness level of the fluorescent display panel.

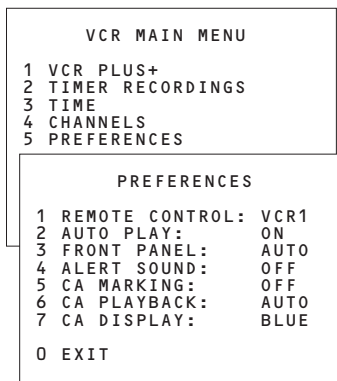
- A. Press MENU on remote to see the VCR MAIN MENU.
- B. Press 5 to display the PREFERENCES menu.
- C. Press 3 to select a FRONT PANEL mode.
 - Select AUTO to keep the display panel bright when VCR is on and dim when it is off.
 - Select BRIGHT to keep the display panel bright at all times.
 - Select DIM to keep the display panel dim at all times.



12. Set the ALERT SOUND.

Select this feature if you want a warning to sound when an invalid entry or invalid operation is attempted. This feature is set to OFF at the factory. Please note the warning sound is heard only when the VCR and TV are on.

- A. Press MENU on the remote to display VCR MAIN MENU.
- B. Press 5 to display the PREFERENCES menu.
- C. Press 4 to select ALERT SOUND: ON or OFF.
 - Select ON if you want to sound a short warning.
 - Select OFF if you *do not* want to sound a short warning.



Controlling a TV

The VCR's remote is preprogrammed to control the basic functions of a compatible GE, RCA, or ProScan TV. Also, you can set up the remote to control other manufacturer's brands. To program the remote, enter the remote code numbers that correspond to your brand.

Program the Remote for a TV

1. Turn on the TV.
2. Point the VCR remote at the TV.
3. Hold the TV button and press two number buttons to enter the code for your brand.
4. Release the buttons.
5. Press CHANNEL up or down. If the TV turns off or changes channels, setup is complete.
6. Repeat steps 2 – 5 with a different code if the first one does not work.

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

*The remote may not be able to control every model TV of the brands listed.

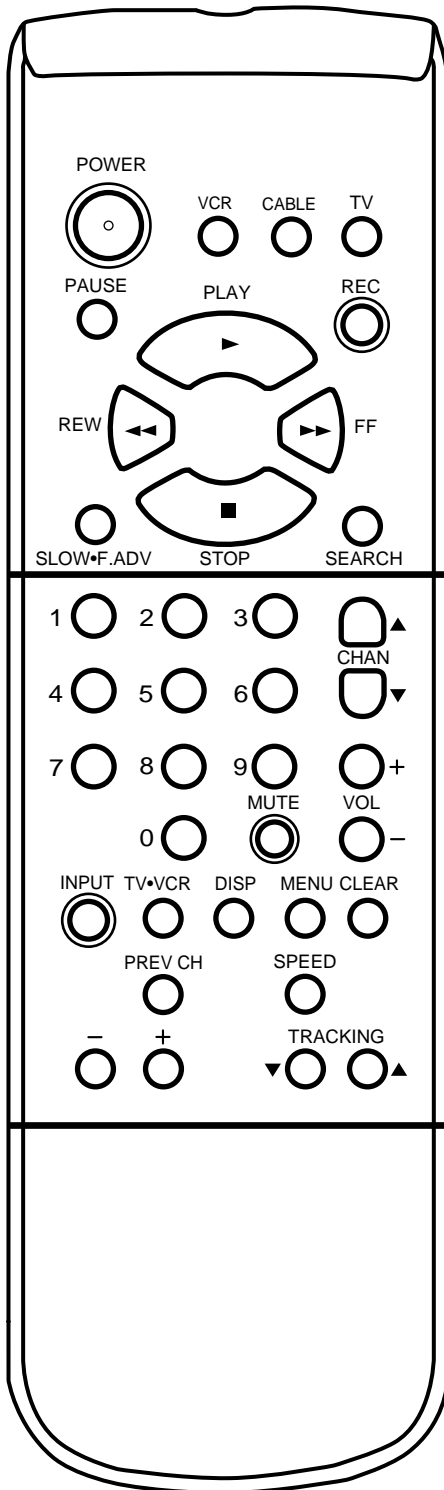
Operate the TV

After you set up your remote to control your TV, test the TV buttons to see which ones operate your TV.

1. Point the remote at the TV and press TV.
2. If the TV does not turn on in step 1, press TV, then POWER.
3. Use the "TV Function Buttons" described in the "Remote Control" section.

Helpful Hint: Notice the difference between the TV and VCR on-screen displays. This is one way to tell if the remote is set to control the VCR or the TV.

Remote Control



Component Buttons

Press one of the buttons to set the remote to operate that component.

CABLE

Used with POWER button to turn on a compatible cable box or satellite receiver as described on page 14.

Used with POWER button to turn on another brand of TV as described on page 11.

TV

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

VCR

Sets the remote to control the VCR.

VCR Function Buttons

Press VCR to set remote to control the VCR to use the function buttons.

- and + (SLOW)

Used for slow-motion playback. Press + to increase the speed. Press - to decrease the speed.

MENU

Displays the VCR MAIN MENU on the TV screen.

Removes a menu from the screen.

CHAN (Channel) Up or Down

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

Numbers (0 through 9)

Select a channel up to 99—press two numbers.

Select a cable channel over 99—press and hold 1 until 1-- appears on the screen. Then, press the other two numbers.

CLEAR

Resets the time counter to 0:00:00.

Lets you change entries when setting the clock or a timer recording.

PAUSE

Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

DISP (Display)

Shows VCR operating displays on the TV screen.

Displays the time counter.

PLAY

Plays a tape.

FF (Fast Forward)

Fast forwards the tape when the VCR is stopped.

Quickly searches a tape in forward motion during playback.

POWER

Turns off the VCR when the remote is set to control the VCR.

Turns off other components if remote is programmed.

INPUT

Turns the line input (L) on or off.

Line input refers to the signal coming from the component connected to the audio/video jacks on the back of the VCR.

PREV CH (Previous Channel)

Switches between two channels.

Select one channel and then select another. Press PREV CH to switch between the two channels.

Remote Control

VCR Function Buttons

(continued)

REC (Record)

Starts the VCR recording.

Used for one touch recording.

REW (Rewind)

Rewinds the tape when the VCR is stopped.

Quickly searches a tape in reverse motion during playback.

SEARCH

Displays the INDEX, ZERO and BLANK search menus on the TV screen.

Advances a tape 60 seconds during playback.

SLOW•F.ADV (Frame Advance)

Used for slow-motion playback.

Advances a tape one frame with each press of the button when tape is paused during playback.

SPEED (Tape Speed)

Selects a recording speed (SP or SLP).

STOP

Stops the VCR's normal functions such as record, playback, rewind, fast forward, and pause.

TRACKING Up or Down

Reduces the streaks that may appear on the picture during play, slow, or pause.

Reduces picture "jitter" during stop-action playback.

TV•VCR

Switches the picture signal so that it either comes from the VCR or the TV channel. See "Startup" section.

TV Function Buttons

Press the TV button to set remote to control a compatible TV. Some buttons may not work with the TV.

CHAN (Channel) Up or Down

Selects next higher or lower channel in the TV's channel memory when remote is set to control a TV.

CLEAR

Removes menus or status displays from the screen.

DISP (DISPLAY)

Shows the status displays on the screen.

Removes menus or displays from the screen.

POWER

Turns off a compatible TV when remote is set to control that TV.

Used with the TV button to turn on a compatible TV that the remote has been programmed to control. See "Controlling a TV" section.

MUTE

Turns the TV sound on or off.

Numbers (0 through 9)

Selects a channel up to 99—press two numbers.

Selects a cable channel over 99—press and hold 1 until 1-- appears on the screen. Then, press the other two numbers.

PREV CH (Previous Channel)

Switches between two channels.

Select one channel and then select another. Press PREV CH to switch between the two channels.

Used as an ENTER button on some TVs.

VOL (Volume) + or -

Raises and lowers sound.

Cable Box or Satellite Receiver Function Buttons

Press the CABLE button to set remote to control a compatible cable box or satellite receiver. Some buttons may not work with the cable box or satellite receiver.

CHAN (Channel) Up or Down

Selects next higher or lower channel.

Numbers (0 through 9)

Selects a channel using the numbers.

POWER

Turns off a compatible cable box or satellite receiver when remote is set to control it.

PREV CH (Previous Channel)

Used as an ENTER button for some cable boxes and/or satellite receivers.

Controlling a Cable Box or a Satellite Receiver

The CABLE button on the VCR's remote is preprogrammed to control a compatible RCA cable box or GE, RCA, or ProScan satellite receiver. If your cable box is another manufacturer's brand and has its own remote, you will probably be able to program the VCR's remote to control it. To program the VCR's remote, enter the code that corresponds to your brand.

Program the Remote for a Cable Box or Satellite Receiver

1. Turn on the cable box or satellite receiver.
2. Point the VCR remote at the cable box or satellite receiver.
3. Hold the CABLE button and press two number buttons to enter the code for your brand.
4. Release the buttons.
5. Press POWER on the remote. If the cable box or satellite receiver turns off, setup is complete.
6. Repeat steps 2 – 5 with a different code if the first one does not work.

Cable Box Codes					
Brand*	Code	Brand*	Code	Brand*	Code
ABC	.53,54	Magnavox	.07,08,19,26, .28,29,32,33,40,41	Samsung	.44
Anvision	.07,08	NSC	.09	Sci. Atlanta	.03,22,35
Cablestar	.07,08	Oak	.01,16,38	Stargate 2000	.58
Diamond	.56	Oak Sigma	.16	Sylvania	.11,59
Eagle	.07,08	Panasonic	.03,27,39	Teknika	.06
Eastern Int.	.02	Philips	.07,08,19,26,28, .29,32,33,40,41	Texscan	.10,11,59
General Instruments	.04,05,15,23, .24,25,30,36	Pioneer	.18,20,44	Tocom	.17,21,49,50,55
Hamlin	.12,13,34,48	RCA	.27,60	Unika	.31,32,41
Hitachi	.37,43	Randtek	.07,08	Universal	.51,52,
Jerrold	.04,05,15,23,24, .25,30,36, 45,46,47	Regal	.12,13	Viewstar	.07,08,19,26,28 .29,32,33,40,41
Macom	.37,43	Regency	.02,33	Warner Amex	.44
				Zenith	.14,42,57

Satellite Receiver Codes					
Brand*	Code	Brand*	Code	Brand*	Code
GE00	ProScan00	RCA00

*The remote may not be able to control every cable box or satellite receiver of the brands listed.

Operate the Cable Box or Satellite Receiver

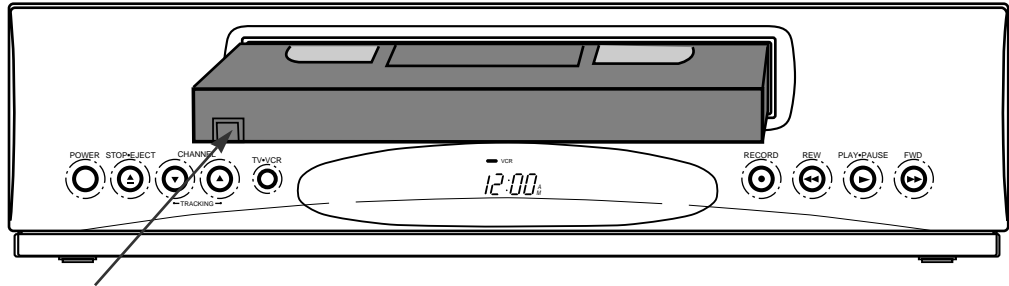
After you set up your remote to control the cable box or satellite receiver, test the buttons to see which ones operate it.

1. Point the remote at the component and press CABLE.
2. If the component does not turn on in step 1, press CABLE, then POWER.
3. Use the "Cable Box or Satellite Receiver Function Buttons" described in the "Remote Control" section.

Playback

To play a tape

1. Turn on the TV and tune it to channel 3, 4, or the TV's video input to see the picture from the VCR.
2. Insert a tape in the VCR.
The VCR automatically turns on and the VCR indicator lights. The VCR automatically begins playback if the safety tab on the tape has been removed and the AUTO PLAY feature is turned on.



Safety Tab

3. Press PLAY•PAUSE on the VCR or PLAY on the remote or VCR, if necessary.
4. Press TRACKING up or down on the remote or the VCR to remove any streaks from the picture if necessary. See "Manual Tracking" section.
5. Press STOP•EJECT on the VCR or STOP on the remote to stop the tape.
6. Press REW on the VCR or the remote to rewind the tape.

End of Tape

The VCR automatically rewinds the tape if it reaches the end of the tape during playback.

Power Off

If you press POWER while a tape is rewinding, the VCR turns off automatically when it is completely rewound.

7. Press STOP•EJECT on the VCR to eject the tape once it is completely rewound.

AUTO PLAY Feature

This feature allows the VCR to automatically start playing when you insert a tape with the safety tab removed.

1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 5 to display the PREFERENCES menu.
3. Press 2 to select AUTO PLAY: ON or OFF.
 - Select ON if you want to have a tape with its safety tab removed to start playing automatically.
 - Select OFF if you *do not* want a tape with its safety tab removed to start playing automatically.

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

PREFERENCES	
1	REMOTE CONTROL: VCR1
2	AUTO PLAY: ON
3	FRONT PANEL: AUTO
4	ALERT SOUND: OFF
5	CA MARKING: OFF
6	CA PLAYBACK: AUTO
7	CA DISPLAY: BLUE
0	EXIT

Using the Playback Features

Picture Search

You can search for a specific tape location during playback by fast forwarding or rewinding the tape. Sound is turned off during picture search. Picture search works best for tapes recorded in the SP or SLP speed.

Fast Forward Search

1. Press FF on the remote or FWD on the VCR to search forward at a faster-than-normal speed.
2. Press FF or PLAY on the remote or FWD or PLAY•PAUSE on the VCR to return to playback.

Rewind Search

1. Press REW on VCR or remote to search backward at a faster-than-normal speed.
2. Press REW or PLAY•PAUSE on the VCR or REW or PLAY on the remote to return to playback.

Slow Motion

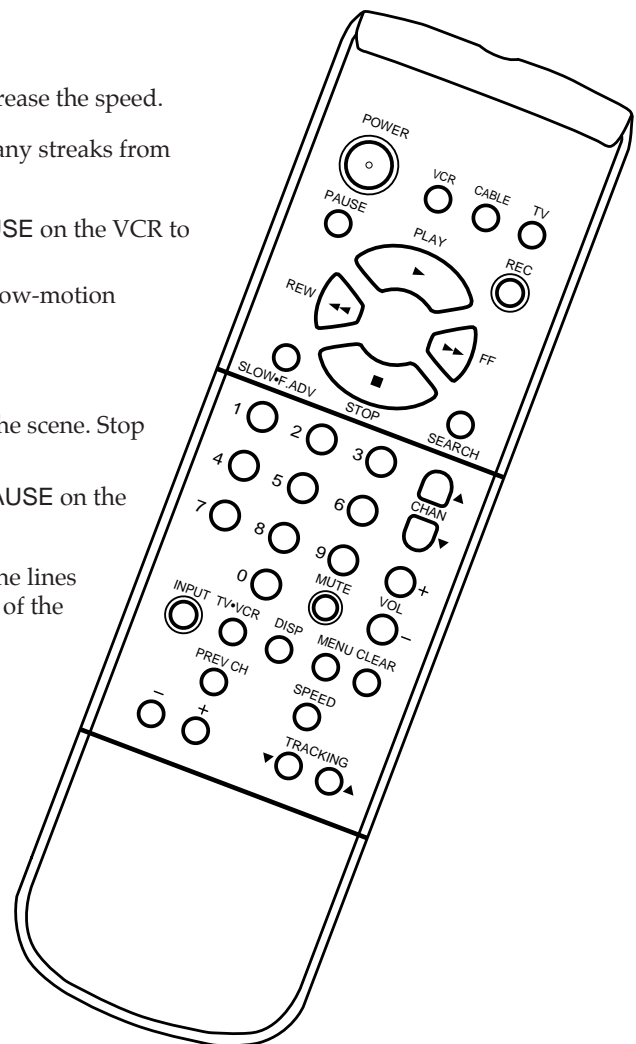
You can view a tape in slow motion during play or play pause. The + and – buttons let you vary the speed. Sound is turned off during slow-motion playback. Slow motion works best for tapes recorded in the SP or SLP speed.

1. Press SLOW•F.ADV during playback to begin slow motion.
PLAY flashes in the VCR display panel.
2. Press + to increase the speed or – to decrease the speed.
2. Use TRACKING up or down to remove any streaks from the picture.
3. Press PLAY on the remote or PLAY•PAUSE on the VCR to return to playback.
The VCR automatically switches from slow-motion playback to stop after a few minutes.

Pause for Stop Action

This feature stops the tape in action and lets you examine the details of the scene. Stop action works best for tapes recorded in the SP or SLP speed.

1. Press PAUSE on the remote or PLAY•PAUSE on the VCR during playback to stop the action.
2. Press TRACKING up or down to move the lines out of the picture or reduce any jittering of the picture.
3. Press PAUSE or PLAY on the remote or PLAY•PAUSE on the VCR to return to playback.
The VCR automatically switches from stop-action playback to stop after a few minutes.

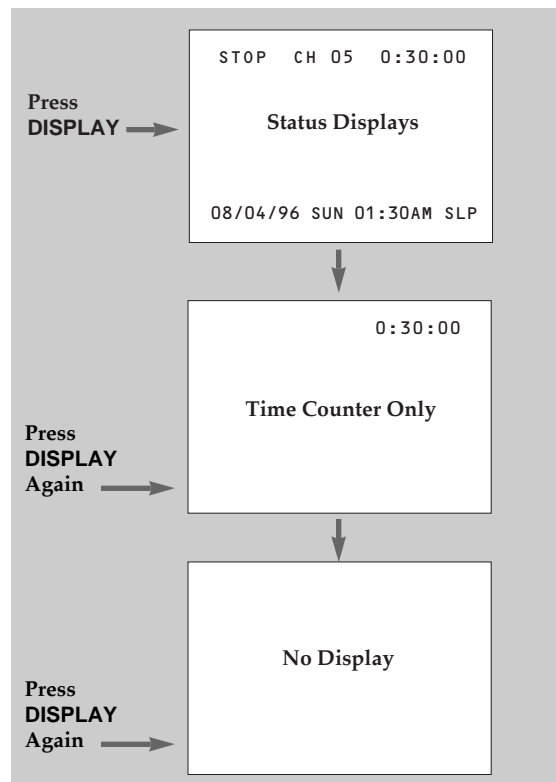


Using the Playback Features

DISP (DISPLAY) Button

The DISP button shows the status of the VCR channel number, time counter, date, time and tape speed on the TV screen. The time and date must be set before they can be displayed.

1. Press DISP.
If you do not press DISP again, this display times out.
2. Press DISP again to display only the time counter on the TV screen.
3. Press DISP again to return to TV viewing.
Turning off the VCR automatically returns the displays to normal.

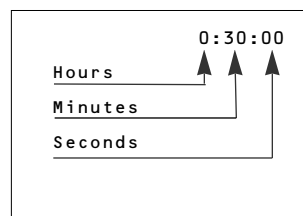


Time Counter

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

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

1. Insert the prerecorded tape and make sure it is rewound to the beginning.
2. Press DISP twice to display only the time counter on the TV screen.
3. Press CLEAR to reset the time counter to 0:00:00.
4. Press FF to fast forward the tape until 0:30:00 appears in the time counter and press STOP. The time counter does not advance when it detects no signal (blank tape).
5. Press DISP to remove the time counter from the screen.



Using the Playback Features

Index Search

The VCR has a "VHS Index Search System" that automatically records an index mark on the tape every time you begin recording a program. Your VCR has two index playback features. To locate the program you want to play, select a specific index number or search by scanning.

Some index marks may be missed by the VCR.

- A mark too close to the current 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 searching from the beginning of the tape.

To Index Search

1. Insert the prerecorded tape and press STOP.
2. Press SEARCH on the remote to display the INDEX SEARCH menu on the TV screen.
3. Press REW or FF on the remote to scan or enter the number of index marks you want the VCR to search. Press CLEAR on the remote to correct an entry. Once the index mark or marks are found, the tape begins playback.
4. Follow the directions on the screen.

```

INDEX SEARCH
PRESS REW OR FF
TO BEGIN SCANNING
OR
ENTER A SPECIFIC
INDEX NUMBER
↕
PRESS SEARCH TO EXIT
    
```

```

INDEX SEARCH
SEARCHING FOR
INDEX MARKS...

PRESS STOP TO CANCEL
    
```

Zero Search

The zero search feature allows 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 watch a segment of the tape several times.

1. Insert the prerecorded tape.
2. Press DISP *twice* to display only the time counter on the TV screen.
3. Use PLAY, FF, or REW to advance to the place on the tape where you want to return quickly.
4. Press CLEAR to reset the time counter to 0:00:00.
5. Continue playing the tape.
6. Press STOP.
7. Press SEARCH twice to display the ZERO SEARCH menu on the TV screen.
8. Follow the directions on the screen.

```

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

OR

```

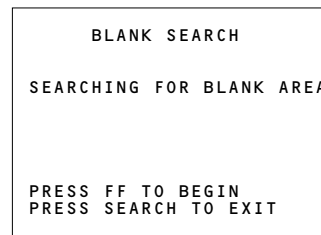
ZERO SEARCH
CURRENT TAPE COUNTER IS
-2:17:25
PRESS FF TO GO TO
0:00:00
PRESS SEARCH TO EXIT
    
```

Using the Playback Features

Blank Search

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

1. Insert the prerecorded tape and press STOP.
2. Press SEARCH *three times* to display the BLANK SEARCH menu.
3. Press FWD on the VCR or FF on the remote to begin searching for six seconds of blank tape. A message appears on the screen if a blank area is not found.
4. Press STOP to stop BLANK searching.



Frame Advance (SLOW•F. ADV Button)

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

1. Press PAUSE on the remote or PLAY•PAUSE on the VCR during playback to stop the action.
2. Press SLOW•F. ADV each time you want to view a frame of the scene.
3. Press PAUSE or PLAY on the remote or PLAY•PAUSE on the VCR to resume normal playback.

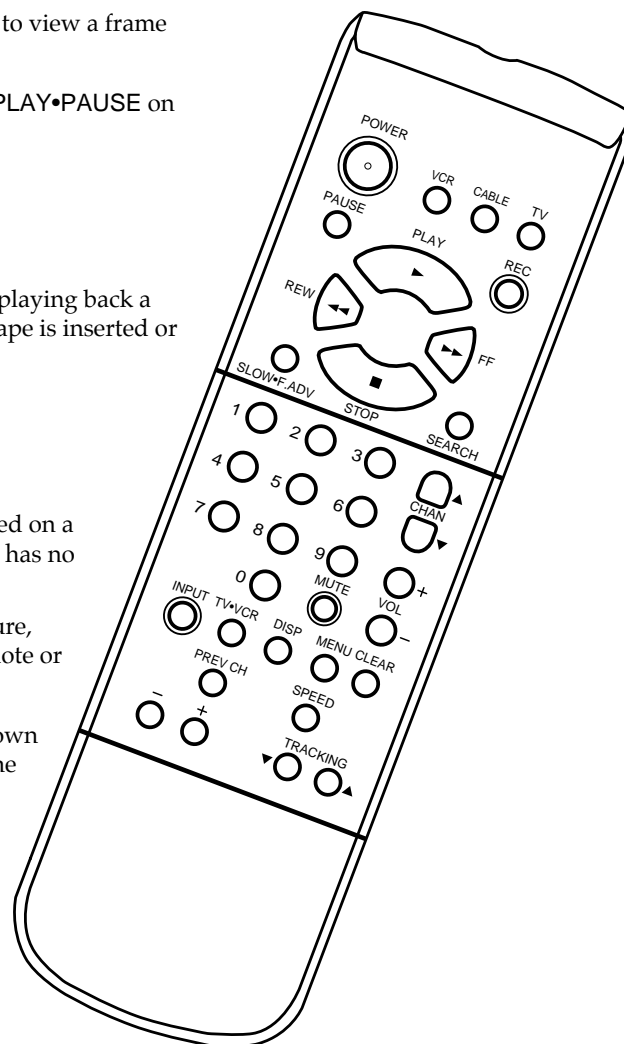
Automatic Tracking

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

Manual Tracking

Occasionally, you may need to manually adjust tracking on a tape recorded on a different VCR or camcorder. Tracking is used when playing a tape, and it has no effect during recording.

- When streaks or snow appear in the picture, press TRACKING up or down on the remote or the VCR for the best possible picture.
- During pause, press TRACKING up or down on the remote to reduce any jittering of the picture.
- 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.



Using the Playback Features

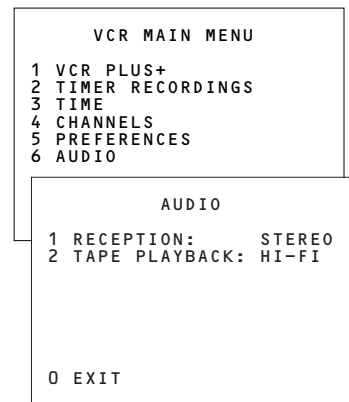
TAPE PLAYBACK: HI-FI/LINEAR Feature

The VCR records the same audio on both the Hi-Fi and linear tracks on the tape. The Hi-Fi sound is recorded on separate left and right stereo channels. Mono sound is recorded on the linear track.

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

To Select Playback Sound

1. Press MENU to see the VCR MAIN MENU.
2. Press 6 to see the AUDIO menu on the TV screen.
3. Press 2 to switch between HI-FI or LINEAR sound.
 - Select HI-FI to play back sound recorded on the Hi-Fi track and for normal use.
The Hi-Fi indicator lights in the VCR's display panel.
 - Select LINEAR to play back the sound recorded on the linear track, such as a second audio program (SAP).
The Hi-Fi indicator turns off in the VCR's display panel.



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. 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 into approximately 8-12 seconds of fast forwarding in the SLP speed. You can select a background of blue or see the video as the commercials are skipped.

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 returns the tape to the end of the recording. *It does not erase the commercials from the tape.*

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.

See "Trouble Checks" section for answers to common questions about COMMERCIAL▶▶ADVANCE™.

COMMERCIAL▶▶ADVANCE™ Marking

1. Press MENU to display the VCR MAIN MENU.
2. Press 5 to display the PREFERENCES menu.
3. Make sure CA MARKING is set to ON. If not, press 5.

The VCR will mark most commercials for the following types of recording:

- **VCR Plus+, Timer, or One Touch Recording:** The VCR will automatically mark the commercials after the power is turned off.
- **Manual Recording:** When you press STOP to stop recording, the VCR will ask you if you want to mark the commercials. Just follow the on-screen display.
MARK and COMM alternate in the display panel while the VCR is marking commercials.

To Stop COMMERCIAL▶▶ADVANCE™ Marking

Press STOP to cancel commercial marking.

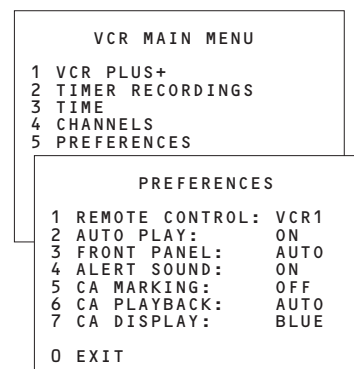
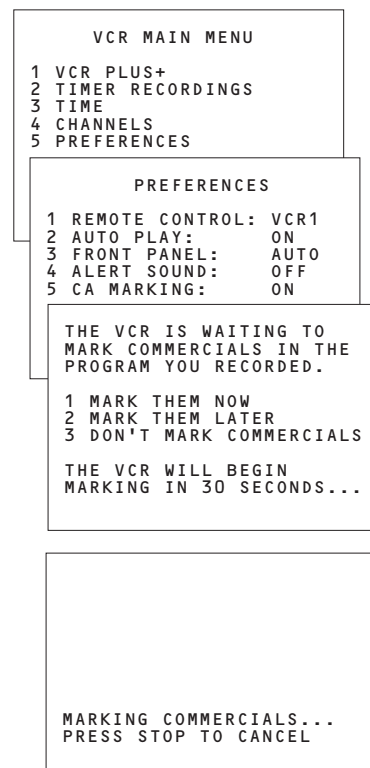
To Turn Off Marking

For special VCR use (such as editing or copying) or if you decide not to use this feature, turn COMMERCIAL▶▶ADVANCE™ marking (CA MARKING) off.

1. Press MENU to display the VCR MAIN MENU.
2. Press 5 to display the PREFERENCES menu.
3. Press 5 to select CA MARKING: OFF.

The VCR will not mark the commercials.

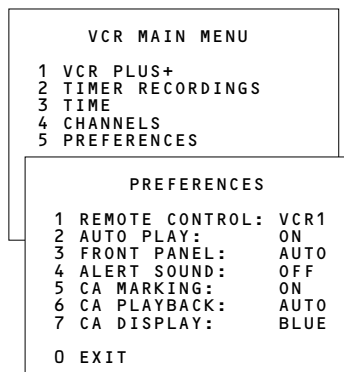
COMMERCIAL▶▶ADVANCE™ is a trademark of Arthur D. Little Enterprises, Inc. A Jerry Iggulden invention licensed by Arthur D. Little Enterprises, Inc.



COMMERCIAL▶▶ADVANCE™

To Select a Background for Playback

1. Press MENU to display the VCR MAIN MENU.
2. Press 5 to display the PREFERENCES menu.
3. Press 7 to select CA DISPLAY: BLUE or VIDEO.
 - Select BLUE to have the VCR display a blue screen while it advances through the block of marked commercials.
 - Select VIDEO to have the VCR display the video as it advances through the block of marked commercials.



To Play Back a Recording Made Using COMMERCIAL▶▶ADVANCE™

1. Press MENU to display the VCR MAIN MENU.
2. Press 5 to display the PREFERENCES menu.
3. Press 6 to select CA PLAYBACK: AUTO or 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.

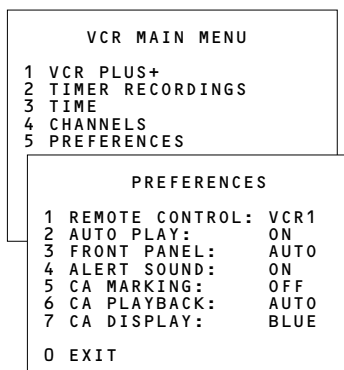
A commercial will not be skipped if the recording starts in the middle of a commercial segment, one isolated commercial is shown without others, or a commercial is longer than one minute. Press FF to scan through the commercial.

It is possible that part of a recorded program might 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 will not advance through the blocks of marked commercials until you press SEARCH.

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

If you press SEARCH during playback of material other than commercials, the VCR will still advance to the end of the next "marked" commercial block and resume playback.



Recordings

Your VCR provides different recording options. These options are explained in this section of the manual.

Recording Speeds

Press **SPEED** on the remote to select a recording speed (SP or SLP). The speed you select appears on the TV screen. Tapes recorded in LP can be played in this VCR.

SP (Standard Play) gives the best quality recording. That is why most prerecorded, rental tapes are recorded in SP. Fewer programs can be recorded on the tape. Special effects such as pause, frame advance, slow motion, and picture search work well in this speed.

SLP (Super Long Play) gives three times the recording time of tapes recorded in SP. Special effects such as pause, frame advance, slow motion, and picture search work well in this speed.

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

Normal Recording

To Make a Recording

Turn on the TV and tune it to the VCR viewing channel, either 3, 4, or the TV's video input channel.

1. Insert a tape with its safety tab in place.
2. Press **VCR** to set the remote to control the VCR.
3. If you are using one of the basic hookups, make sure the VCR indicator lights in the VCR's display panel. If not, press **TV•VCR** to turn it on.
4. Use **SPEED** on the remote to select a recording speed.
The tape speed indicator appears on the TV screen.
5. Select the channel to be recorded.
The channel number appears on the TV screen.
6. Press **RECORD** on the VCR or **REC** on the remote to begin recording.

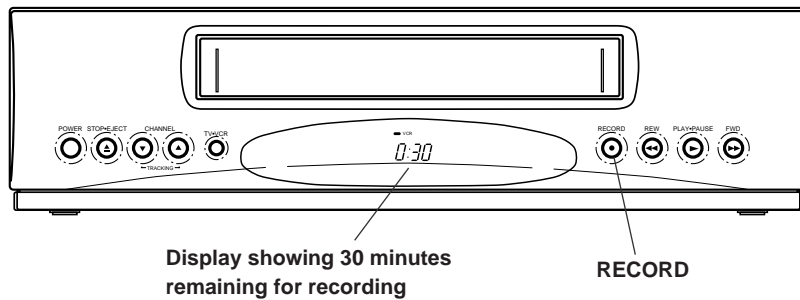
Watch a TV Channel While VCR is Recording a Different Channel

For some cable box hookups, this recording feature may not apply. Contact your local cable company for assistance.

1. Follow steps 1 through 6 above.
2. If you are using one of the basic hookups, press **TV•VCR** to switch to the TV channel.
The VCR indicator turns off in the display panel.
3. Press **TV** to set the remote to control TV functions for a compatible TV.
4. Select the channel you want to watch with the TV's channel buttons.
5. Press **STOP•EJECT** on the VCR or **STOP** on the remote when the recording is finished.

One Touch Recording

One Touch recording lets you record up to four hours without using the timer program feature. The VCR turns off automatically at the end of the recording.



1. Turn on the VCR.
2. Insert a tape with its safety tab in place.
3. Select the channel you want to record.
4. Use SPEED on the remote to select a recording speed.
5. Press REC on the remote or RECORD on the VCR twice to start recording.
6. Press RECORD or REC repeatedly until the amount of recording time for the program is displayed on the TV screen.

Press RECORD	Recording Time
0:30	(30 Min)
1:00	(1 Hr)
1:30	(1 Hr, 30 Min)
2:00	(2 Hrs)
3:00	(3 Hrs)
4:00	(4 Hrs)
Normal Record	
0:00	Turns Off

REC CH 06 RECORD LENGTH 0:00
PRESS REC TO SET LENGTH

Display on TV Screen

Each press of RECORD or REC increases the time — 30 minutes up to 4 hours.

The amount of time the VCR records, power indicator flashes, and TIMER indicators lights in the VCR display panel.

During recording, press RECORD on the VCR or REC on the remote to display the time remaining on the TV screen. Press RECORD or REC again to increase the recording time.

Stopping a One Touch Recording in Progress

You can stop a recording by:

- Pressing and holding the STOP button on the remote or STOP•EJECT on the VCR for approximately three seconds.
- Pressing the RECORD button until 0:00 is displayed for the recording.

Recording While You're Away (VCR Plus+* Recording)

VCR Plus+ Setup

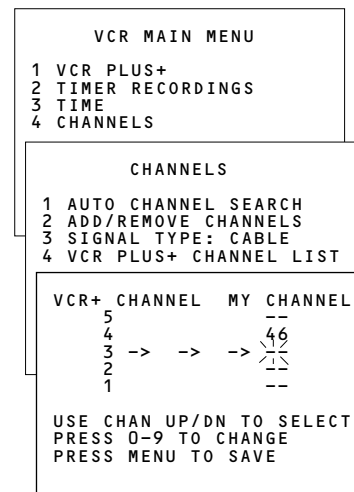
A VCR Plus+ channel number is assigned for each broadcast or cable channel. These numbers are listed in most publications that list PlusCode* numbers.

1. Prepare the worksheet for the VCR Plus+ channels that are different from the channels you receive them on. Refer to the chart below for standardized VCR Plus+ channel numbers.
2. Press MENU on the remote to display the VCR MAIN MENU on the TV screen.

Broadcast or Cable-TV Station Name	VCR Plus+ Channel Number	Channel Number You Receive This Station On
HBO	33	See Note 1
ESPN	34	See Note 1
ABC	See Note 2	See Note 1
FOX	See Note 2	See Note 1

Note 1: Check your local or cable listing for the channel number you receive this station on.
Note 2: Check your local listing for the broadcast or VCR Plus+ channel number assigned to this station.

3. Press 4 to display CHANNELS menu.
4. Press 4 to display VCR PLUS+ CHANNEL LIST menu.
5. Using the worksheet on the next page, press two numbers to enter each channel number you receive on a **different** channel than the assigned VCR Plus+ channel number.
 If a channel in your area has been assigned more than one VCR Plus+ channel number, enter that same channel number next to each VCR Plus+ channel number.
 Press CHAN up or down to move the VCR PLUS+ numbers up or down on the menu.
 Press CLEAR on the remote to erase a number.
6. Press MENU when you are finished.



Standardized VCR Plus+ Channel Numbers for Cable-TV					
U.S.A. List	58	The Movie Channel	Canadian List	99	First Choice Four
35	American Movie Classics	48	Music Television	90	House of Commons
39	Arts & Entertainment	49	The Nashville Network	91	La Chaîne Française
57	Black Entertainment	38	Nickelodeon	51	The Learning Channel
54	Bravo	64	Nostalgia Television	65	MeteoMedia/The Weather Network
42	Cable News Network	99	Quality Value Cable	48	MuchMusic Network
45	Cinemax	41	Showtime	55	MusiquePlus
98	Cinemax 2	97	Showtime 2	52	Nashville Network
37	The Discovery Channel	59	Sports Channel	73	NewsWorld/CBC
53	The Disney Channel	52	Turner Network Television	53	Le Réseau des Sports
63	Entertainment Television	44	USA Network	43	The Sports Network
34	ESPN Sports Network	62	Video Hits 1	64	Super Ecran
47	The Family Channel	93	Viewer's Choice 1	37	Super Ecran B
33	Home Box Office	94	Viewer's Choice 2	98	Super Ecran C
95	Home Box Office 2	55	WGN Chicago	66	Telatino Network
96	Home Box Office 3	43	WTBS Atlanta	46	TV5 Montreal
51	The Learning Channel	60	WWOR New York	92	Viewer's Choice 1
46	Lifetime				

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

Recording While You're Away (VCR Plus+ Recording)

The VCR Plus+ and timer program features let you program the VCR to record up to eight different programs within a one year period. Before using VCR Plus+ to record a program, make sure that:

- The clock is set correctly.
- A tape with safety tab has been inserted with enough tape to record the program(s).
- The remote is set to control the VCR — using VCR.
- The VCR is set up for VCR Plus+ programming.

Setting a VCR Plus+ Recording

1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 1 to display the VCR PLUS+ menu.
3. Press numbers on the remote to enter PlusCode number for the program you want to record. VCR PlusCode numbers are found in most local TV listings.
Press CLEAR on the remote to correct an entry.
4. Press MENU to enter the program.
If the VCR does not recognize the PlusCode number, UNRECOGNIZED NUMBER... PLEASE RE-ENTER appears on the TV screen. Check the number and enter it again.
5. Press 1, 2, 3, or 4 to select type of program.
 - 1 ONE TIME – single program recorded once.
 - 2 DAILY – program recorded at same time every day.
 - 3 WEEKDAYS – program recorded at same time Monday through Friday.
 - 4 WEEKLY – program recorded at same time once a week.
6. Select a recording speed using the SPEED button.
7. Press CLEAR if you want to change the program end time.
This feature lets you extend the recording time on VCR Plus+ programs. Also, this option may be useful when you are recording programs such as sporting events that could exceed scheduled broadcast times.
8. Press MENU to enter your program.
A reminder appears which times or you can press MENU until VCR MAIN MENU appears.
If you have entered two programs whose times overlap, PROGRAMS OVERLAP appears on the screen.
9. Repeat steps 2 – 8 for additional programs or press 0 to remove the menu from the TV screen.
10. **Turn off the VCR** before recording time.
The TIMER indicator appears in the VCR display panel.

VCR MAIN MENU

1 VCR PLUS+

VCR PLUS+

ENTER PLUSCODE NUMBER
(FROM TV LISTING)

1 2 3 4 5 6 7 8

VCR PLUS+

ENTER PLUSCODE NUMBER
(FROM TV LISTING)

1 2 3 4 5 6 7 8

HOW OFTEN SHOULD THIS
PROGRAM RECORD?

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

PROGRAM 1 (ONE TIME)

CHANNEL 08
START TIME 02:10 PM
END TIME 03:35 PM
START DATE 08/04/96 SUN
TAPE SPEED SLP

PRESS CLEAR TO ADJUST
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.

Stopping a VCR Plus+ Recording in Progress

You can stop a recording by pressing and holding the STOP button on the remote or STOP•EJECT on the VCR for approximately three seconds.

Recording While You're Away (Timer Recording)

The timer program and VCR Plus+ features let you program the VCR to record up to eight different programs within a one year period. Before setting the timer, make sure that:

- The clock is set correctly.
- A tape with its safety tab in place has been inserted with enough tape to record the programs.
- The remote is set to control the VCR — using VCR.

Setting a Timer Recording

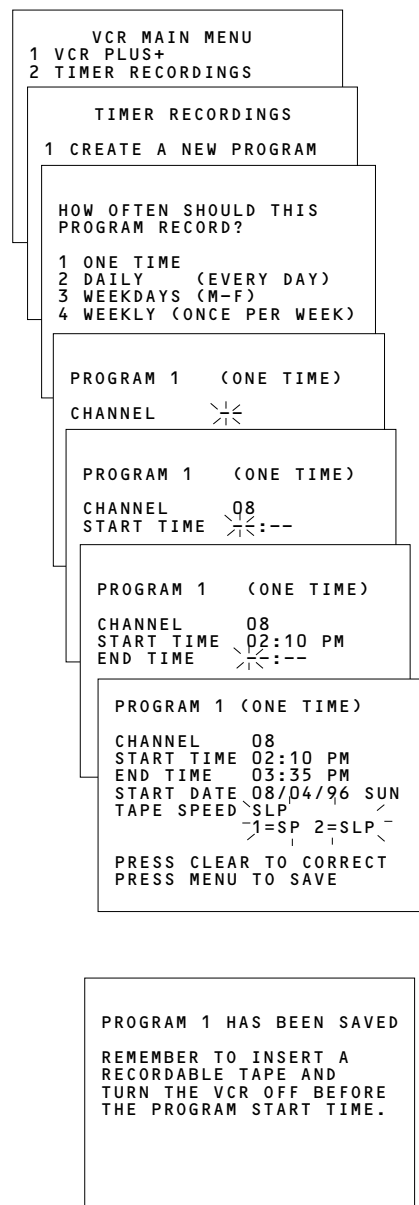
1. Press **MENU** on the remote to display the VCR MAIN MENU.
2. Press **2** to display the **TIMER RECORDINGS** menu.
3. Press **1** to display the **CREATE A NEW PROGRAM** menu.
4. Press **1, 2, 3, or 4** to select type of program.
 - 1 **ONE TIME** — single program recorded once.
 - 2 **DAILY** — program recorded at same time every day.
 - 3 **WEEKDAYS** — program recorded at same time Monday through Friday.
 - 4 **WEEKLY** — program recorded at same time once a week.
5. Press number buttons on the remote to enter the channel number (or **INPUT** on the remote to select line input), start time including **AM** or **PM**, end time, and start date of the recording. Follow the on-screen prompts. Press **CLEAR** on the remote to correct an entry.
6. Press **SPEED**, or **1(SP)**, **2 (SLP)** on the remote to select the recording speed.
7. Press **MENU** to enter your program.

A reminder appears which times or you can press **MENU** until **TIMER RECORDINGS** menu appears.

If you have entered two programs whose times overlap, **PROGRAMS OVERLAP** appears on the screen.
8. Repeat steps 3–7 for additional programs or press **MENU** twice to remove the menu from the TV screen.
9. **Turn off the VCR** before the recording time.

If using a cable box, leave it turned on and tuned to the channel you want to record.

The **TIMER** indicator appears in the VCR display panel.



Stopping a Timer Recording in Progress

You can stop a recording by pressing and holding the **STOP** button on the remote or **STOP•EJECT** on the VCR for approximately three seconds.

Recording While You're Away (Timer Recording)

Checking or Clearing VCR Plus+ or Timer Recordings

1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 2 to display the TIMER RECORDINGS menu.
3. Press 2 to display the REVIEW EXISTING PROGS menu. Each entered program is displayed for a few seconds in sequence.
4. Press MENU for next program or CLEAR to erase the program.

```
VCR MAIN MENU
1 VCR PLUS+
2 TIMER RECORDINGS

TIMER RECORDINGS
1 CREATE A NEW PROGRAM
2 REVIEW EXISTING PROGS.

PROGRAM 1 (ONE TIME)
CHANNEL      08
START TIME   02:10 PM
END TIME     03:35 PM
START DATE   02/02/96 FRI
TAPE SPEED   SLP

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

Timer Recording From the VCR's Line Input

The line input refers to the signal coming from the VCR's AUDIO and VIDEO IN jacks. Recording from the line input is convenient if you have a satellite receiver or similar component attached to these jacks.

To timer record from the component connected to the VCR's line input, press INPUT on the remote to enter VIDEO instead of the channel number on the TV screen during timer programming.

```
PROGRAM 1 (ONE TIME)
CHANNEL      VIDEO
START TIME   7:--
END TIME     --:--
START DATE   --/--/--
TAPE SPEED   SLP

PRESS CLEAR TO CORRECT
PRESS MENU TO EXIT
```

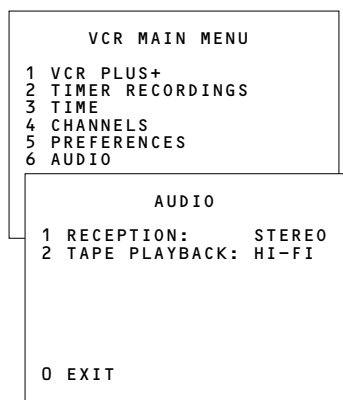
Stereo Broadcast TV or SAP (Second Audio Program)

Some TV programs are broadcast with stereo audio or a second audio language (SAP). The RECEPTION: STEREO/MONO/SAP feature lets you select the type of audio you want to record.

To Record Stereo Broadcast TV or SAP

Turn on the TV and tune it to the VCR viewing channel, either 3, 4, or the TV's video input.

1. Insert a tape with its safety tab in place.
2. If you are using one of the basic hookups, make sure the VCR indicator lights in the VCR's display panel. If not, press TV•VCR to turn it on.
3. Use SPEED on the remote to select a recording speed.
The tape speed indicator appears on the TV screen.
4. Select the channel or line input (channel 00) to be recorded.
The channel number or VIDEO appears on the TV screen.
5. Set the RECEPTION: STEREO/MONO/SAP feature for the type of audio you want to record.
 - A. Press MENU to display the VCR MAIN MENU.
 - B. Press 6 to display the AUDIO menu.
 - C. Press 1 to select the type of audio RECEPTION: STEREO, MONO, or SAP.
 - Select STEREO for normal and stereo broadcast TV recording.
The 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 SAP (second audio program) on the linear track.
The SAP indicator appears on the TV screen when the station you are tuned to is broadcasting SAP.
6. Press RECORD on the VCR or REC on the remote to start recording.
7. Press STOP•EJECT on the VCR or STOP on the remote when you are finished.



RECORDING AUDIO

You can record audio only from another audio source connected to the AUDIO1 IN (L and R) jacks on the back of the VCR. Any video on the tape will be erased when you record audio only.

To Record Audio Only

1. Press the INPUT button or 0,0 on the remote to hear the source attached to the AUDIO jacks. VIDEO appears on the TV screen.
The VCR records audio from the audio equipment connected to the AUDIO1 (L and R) IN jacks.
2. Use SPEED on the remote to select the recording speed.
The tape speed indicator appears on the TV screen.
3. Start playing the audio source. Then, press RECORD on the VCR or REC on the remote to begin recording.
4. Press STOP•EJECT on the VCR or STOP on the remote when you are finished.

To Play Back Audio Only

Connect the AUDIO OUT 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 for information.

Using the Recording Features

Recording Pause

To prevent recording short passages of unwanted material, use PAUSE or PLAY•PAUSE during recording to stop and start recording. The VCR automatically switches from pause to stop after a few minutes.

Pro-Tect Plus™ (Child Lock) Feature

This feature is useful to tamper proof your timer recordings from unwanted changes and/or protect the VCR from misoperation by other users in the household.

To Lock the VCR

Press and hold POWER or VCR button on the remote for approximately six seconds to turn on the Pro-Tect Plus™ feature.

SAFE appears in the VCR front panel to let you know the feature is activated.

To Unlock the VCR

Press and hold VCR button on the remote for approximately six seconds to unlock the VCR.

Using Two VCRs for Copying and Editing Tapes

Operating Instructions (Refer to hookup on page 6.)

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 the TV's video input.
3. If you connected your VCR using Option A (page 6), tune the recording VCR to channel 3 or 4 – the one selected on the back of the playback VCR.
If you connected your VCR using Option B (page 6), press INPUT on the recording VCR's remote to select the line input.
4. Insert the tape you want to copy into the playback VCR. Insert a blank tape with its safety tab in place into the recording VCR.
5. Press PLAY, then PAUSE on playback VCR when you reach the point on the tape or program where you want to begin copying. If the tape was not recorded on the playback VCR, streaks may appear, and you may need to adjust tracking.
6. Press RECORD on the VCR or REC on the remote, then PAUSE on the recording VCR.
7. Press the PAUSE buttons on both VCRs at the same time to begin copying the tape.*
8. Edit out segments that you do not want to copy by pressing PAUSE on the recording VCR to stop copying the tape. Then, locate the next segment you want to copy on the playback VCR by using FWD, REW and PLAY. Press PAUSE on the playback VCR. Press PAUSE *at the same time* on both VCRs to resume copying.
9. Press STOP•EJECT on both VCRs when you are finished.

*You may turn off the TV after the recording has started as it does not have to be on to copy a tape.

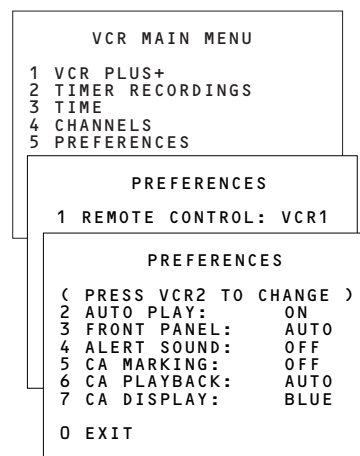
Caution: The unauthorized recording of television programs and other materials may infringe the rights of others.

Copying and Editing Tapes Using Compatible Remote

If you have a compatible GE, RCA, or ProScan remote with VCR1 and VCR2 buttons, you can program this VCR to respond to either VCR1 or VCR2. This lets you control both VCRs with one remote for easier copying and editing.

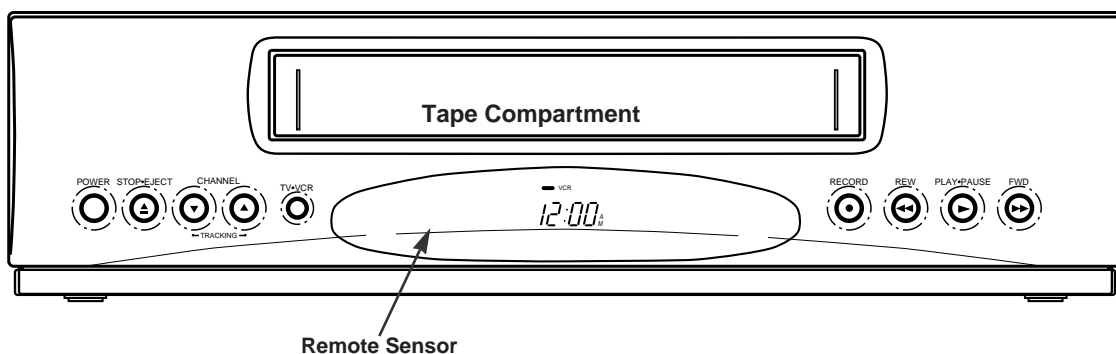
Set the REMOTE CONTROL feature of this VCR to VCR1 or VCR2 position. Then, the compatible remote controls the VCR with either the VCR1 or VCR2 button — depending on the position you select in the menu.

1. Press MENU to display the VCR MAIN MENU.
2. Press 5 to display PREFERENCES.
3. Press 1 to activate the REMOTE CONTROL: VCR1 or VCR2 feature.
4. Press VCR1 or VCR2 on your compatible VCR's remote to change the setting and program this VCR to respond to VCR1 or VCR2 — depending on the position you selected in step 3.



Location of Controls

Front Panel



CHANNEL or TRACKING up or down

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

Adjusts tracking during playback.

FWD (Fast-Forward)

Fast-forwards the tape when the VCR is stopped.

Searches the picture forward during playback.

PLAY•PAUSE

Plays a tape.

Pauses the tape for stop-action viewing during playback.

Pauses the tape during recording to prevent recording unwanted material.

POWER

Turns the VCR on or off.

RECORD

Starts the VCR recording.

Used for one touch recording.

Remote Sensor

Receives signals from the remote control.

Aim the remote at this sensor with no objects between them.

REW (Rewind)

Rewinds the tape when the VCR is stopped.

Searches the picture in reverse during playback.

STOP•EJECT

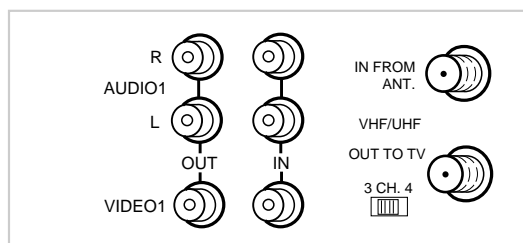
Stops the VCR's normal functions such as record, playback, rewind, fast-forward, or pause.

Ejects the cassette when the VCR is stopped.

TV•VCR

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

Back Panel



3CH.4 Switch

Selects the channel to which you tune the TV to see the VCR picture if you connect the VCR using one of the basic hookups.

IN FROM ANT. (Antenna) Connector

Receives a signal from an antenna or cable system when attached.

OUT TO TV Connector

Passes signal to TV using the cable supplied.

VIDEO1 IN and AUDIO1 IN Jacks

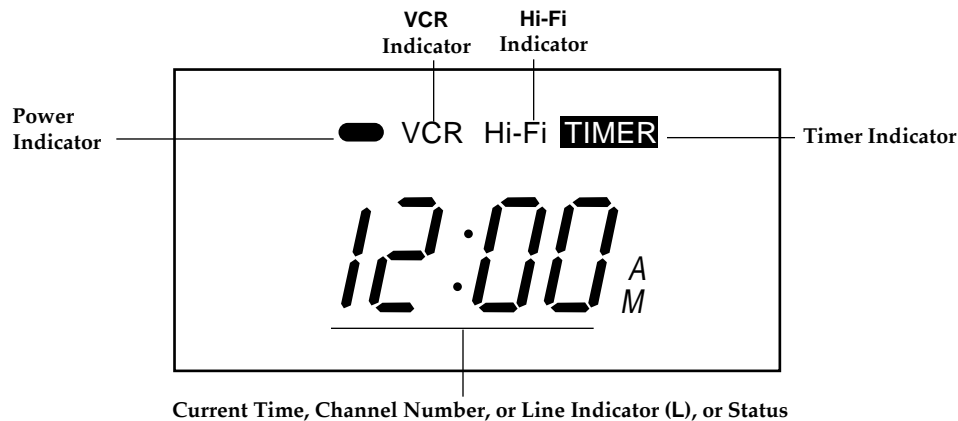
Receives signals from another component like a VCR or camcorder when it is connected to these jacks. Use INPUT (channel 00) on the remote to select.

VIDEO1 OUT and AUDIO1 OUT Jacks

Sends signals from VCR to another component like a TV, VCR, or camcorder when it is connected to these jacks.

Location of Controls

Display Panel



Hi-Fi Indicator

Lights when TAPE PLAYBACK feature is set to HI-FI.

Power Indicator

Lights when the VCR is turned on.
Flashes during a recording.

Time, Channel Number, or Line Input (L)

The current time is displayed. Only the AM indicator appears; when the time is PM, no indicator appears.

The channel number or line input is displayed. Press INPUT on the remote to display the line input indicator (L) to record from the VIDEO1 IN and AUDIO1 IN jacks.

Status Indicators

Shows what the VCR is doing.

- PLAY A tape is playing.
- REC A tape is recording.
- REW A tape is rewinding.
- FF A tape is fast forwarding.
- STOP A tape is stopped.

TIMER Indicator

Shows VCR is set for timer recording when VCR is turned off.

Flashes when the timer recording is set and there is no cassette in the VCR.

VCR Indicator

Lights when using the TV•VCR button.

When using one of the basic hookups:

- The picture comes from the VCR when VCR indicator is on.
- The picture comes from the television channels when VCR indicator is off.

Specifications

Format:	VHS
Record/Playback System:	Video: 4-Head Audio: VHS Hi-Fi Stereo 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)
Type:	AutoProgramming frequency synthesis
Power Requirement:	120V AC, 60 Hz
Power Consumption:	23 watts
Dimensions:	3.5 inches high (89 mm) 14.2 inches wide (360 mm) 11.2 inches deep (285 mm)
Weight:	8.2 pounds (3.7 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 non-abrasive, anti-static cleaner and polisher.

Trouble Checks

Sometimes problems can be easily solved by checking a few basic things. Check below before you call for help or take your VCR to an Authorized GE VCR Servicenter.

Trouble	Here's what to try:
No power	<ul style="list-style-type: none"> • Plug VCR into an operating outlet. • Check connections.
VCR does not respond to remote	<ul style="list-style-type: none"> • Remove batteries and hold down one or more buttons for several seconds to drain the microprocessor inside the remote and reset it. Re-install the batteries and try remote again. • Press VCR to set remote to control the VCR. • Aim remote at VCR with no objects between them. • Change batteries. • Check the ProTect Plus™ feature.
Remote no longer controls a GE TV	<ul style="list-style-type: none"> • Press TV to set remote to control a compatible TV. <i>See page 11.</i> • Reprogram remote for GE TV. <i>See page 11.</i>
Remote no longer controls a compatible TV, cable box, or satellite receiver	<ul style="list-style-type: none"> • Press TV or CABLE button to set remote to control the corresponding component. <i>See pages 11 and 14.</i> • Reprogram remote to control the component. <i>See pages 11 and 14.</i> • Aim remote at TV with no objects between them. • Reprogram remote after batteries have been changed. • Change batteries.
Poor or no picture for normal TV viewing	<ul style="list-style-type: none"> • Press TV•VCR to turn VCR indicator off. • Switch TV to an active channel. • Check antenna connections.
Snowy or no picture during playback	<ul style="list-style-type: none"> • Press TV•VCR to turn VCR indicator on. • Check TV channel selected (3 or 4) to make sure it matches the channel selected with 3CH.4 switch on back of VCR. • Check TV's fine tuning. • Check video cable connections between VCR and TV monitor. • Set TV monitor to video input channel. • Try another tape. • Some snow/streaks are normal during search, stop action, frame advance, and slow-motion playback.
Streaks in picture during normal playback	<ul style="list-style-type: none"> • Press TRACKING to move streaks for the best picture. • Check tape — it may be worn out or of poor quality.
Time counter not working	<ul style="list-style-type: none"> • 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 (-) appears 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	<ul style="list-style-type: none"> • No cassette in VCR. • Eject and reinsert cassette. • Broken tape — try another cassette. • VCR is in pause mode. Press PAUSE or PLAY•PAUSE on the remote or the VCR during recording or playback. • Check the ProTect Plus™ feature.
Will not record	<ul style="list-style-type: none"> • Safety tab removed from cassette. • Make sure the line indicator (L) is turned off in VCR's display panel for normal recording from the VCR's tuner. Press INPUT on the remote to turn the line input off. • Check the ProTect Plus™ feature.
Rewind does not operate	<ul style="list-style-type: none"> • Tape already rewound.
Clock shows incorrect time or date	<ul style="list-style-type: none"> • Power interruption. Clock on the front panel will show -- --. • Clock was not set accurately (check AM/PM and date). <i>See page 9.</i> • Daylight saving time information incorrect. <i>See page 9.</i>
Time did not adjust for daylight savings.	<ul style="list-style-type: none"> • Make sure AUTO DST feature is turned on.

Trouble Checks

Trouble	Here's what to try:
VCR Plus+ or timer recording not made or wrong program recorded	<ul style="list-style-type: none"> • Wrong VCR plus+ code entered. • Cable box was not turned on at time recording was to begin. • Program entered incorrectly (wrong channel or times). • Power interruption. Reset clock. <i>See page 9.</i> • Check to see if time and date are correct — including AM/PM. • Program exceeded tape's length or tape was not rewound beforehand. • VCR was not turned off at the time recording was to start. • No tape in VCR or cassette's safety tab broken off.
VCR makes noise when stopped	<ul style="list-style-type: none"> • VCR is removing tape from heads. This is normal. The head cylinder inside the VCR continues to rotate for a few minutes after you put the VCR in the stop mode.
Will not AUTO-SEARCH active channels correctly	<ul style="list-style-type: none"> • Check antenna connections. • Check SIGNAL TYPE: CABLE/ANTENNA feature. <i>See page 8.</i>
Cannot select channels over 69	<ul style="list-style-type: none"> • Cable channels over 69 can only be selected if SIGNAL TYPE: CABLE/ANTENNA feature is set to CABLE. <i>Details are on page 8.</i>
Cassette with safety tab removed does not start to play automatically	<ul style="list-style-type: none"> • Set AUTO PLAY ON/OFF feature to ON. <i>Details are on page 15.</i>
Tape plays back in slow motion	<ul style="list-style-type: none"> • Press SLOW•F.ADV or PLAY to return to normal playback.
TIMER indicator flashes	<ul style="list-style-type: none"> • Timer recording programmed and no cassette in VCR.
Time counter disappears while searching	<ul style="list-style-type: none"> • This is normal.
On-screen menus in English, French or Spanish	<ul style="list-style-type: none"> • Check language feature in "Startup" section.
Stereo or SAP sound not recorded	<ul style="list-style-type: none"> • RECEPTION: STEREO/MONO/SAP feature must be set to STEREO to record broadcast stereo. • RECEPTION: STEREO/MONO/SAP feature must be set to SAP to record a second audio program. • STEREO or SAP indicator not on. Station not broadcast in stereo or SAP.
No stereo sound during playback	<ul style="list-style-type: none"> • PLAYBACK: HI-FI/LINEAR must be set to HI-FI to hear stereo sound during playback.
Stereo audio too noisy	<ul style="list-style-type: none"> • 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.
VCR forwards through commercials or momentarily displays a blue screen during playback	<ul style="list-style-type: none"> • COMMERCIAL▶▶ADVANCE™ CA PLAYBACK feature set to AUTO. <i>See pages 21-22.</i>
VCR forwards through a rental or pre-recorded tape displaying a blue screen	<ul style="list-style-type: none"> • Some tapes use special control track marking. Set the COMMERCIAL▶▶ADVANCE™ CA PLAYBACK feature, in the PREFERENCES menu to MANUAL.
COMMERCIAL▶▶ADVANCE™ feature does not mark commercials	<p>The commercial advance feature does not mark commercials under the following situations:</p> <ul style="list-style-type: none"> • CA Marking: ON/OFF feature set to OFF. <i>See page 21.</i> • Recording is less than 15 minutes. • A single isolated commercial cannot be marked. • Recording started in the middle of a commercial segment. • The commercial is longer than one minute. • A commercial group within the first or last two minutes of a recording. • It does not mark commercials between 30-and-45 seconds and 45-and-60 seconds. • Accuracy and effectiveness can vary depending upon program content and the characteristics of the commercials. • Effectiveness may vary when local television stations insert their own commercials.
Commercials recorded even though COMMERCIAL▶▶ADVANCE™ feature was turned on.	<ul style="list-style-type: none"> • COMMERCIAL▶▶ADVANCE™ is designed to record the commercials, mark them, and then skip over the marked commercials during playback.

Questions and Answers About **COMMERCIAL▶▶ADVANCE™**

Question	Answer
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 CA 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 CA 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, LP, 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.

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 GE VCR Servicenter the labor charges to repair your VCR.
- Pay any Authorized GE 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 GE VCR Servicenter. To identify your nearest Authorized GE VCR Servicenter, ask your dealer, look in the Yellow Pages, or call 1-800-447-1700.
- 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:

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Si un livret d'instructions en français n'est pas inclus avec votre appareil, vous
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