

VGN550



# *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 VCR to rain or moisture.

## WARNING

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



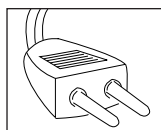
This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



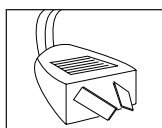
This symbol indicates important instructions accompanying the product.

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

## Cautions

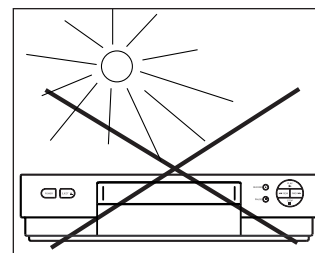
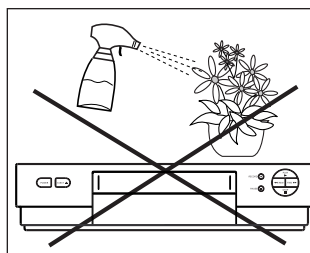
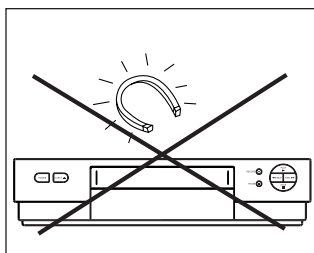


OR

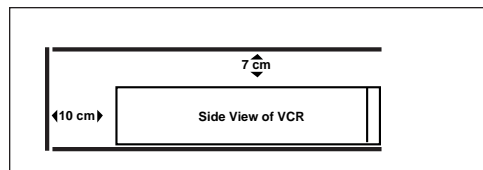
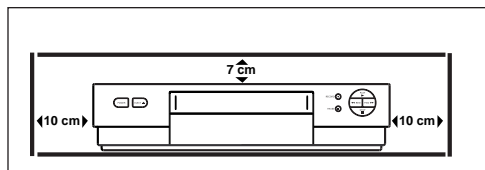


**CAUTIONS:** To reduce the risk of electric shock, fully insert plug into socket. Operate VCR only on 100-240 volts (+/- 10%), 50/60 Hz AC power.

- It is important that you read and follow the safety information and operating instructions.
- Ensure that the main supply in your house complies with that indicated on the identification and rating label located at the back of your appliance.
- Install the VCR horizontally, away from a source of heat ( fireplace) or appliances creating strong magnetic or electric fields (engines).



Follow the drawing below for leaving space around your VCR to insure proper ventilation.



- If your VCR or a cassette has been stored in a very cold atmosphere for a certain amount of time, for example during transportation in the winter, wait approximately two hours before using your VCR.
- The openings located on the top and the bottom are for ventilation purposes. They should not be obstructed.
- In the case of lightning, it is recommended to disconnect the VCR from the external aerial.
- By design, this VCR is not for industrial use, but only for domestic operation.

Partial or complete recording of copyright protected works made without explicit permission from the copyright holder are illegal.

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# Choosing a Hookup

The hookups on pages 3 through 7 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 monitor/receiver (TV with audio and video jacks). This type of connection may improve the picture quality as well as convenience of operation.

## Answer the questions to choose the hookup for your VCR.

### 1. How do you receive your TV 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.

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

## Optional Hookups

### How to hook up two VCRs for copying tapes?

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

## Antenna or Cable System Without a Cable Box

### A. Basic hookup.

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

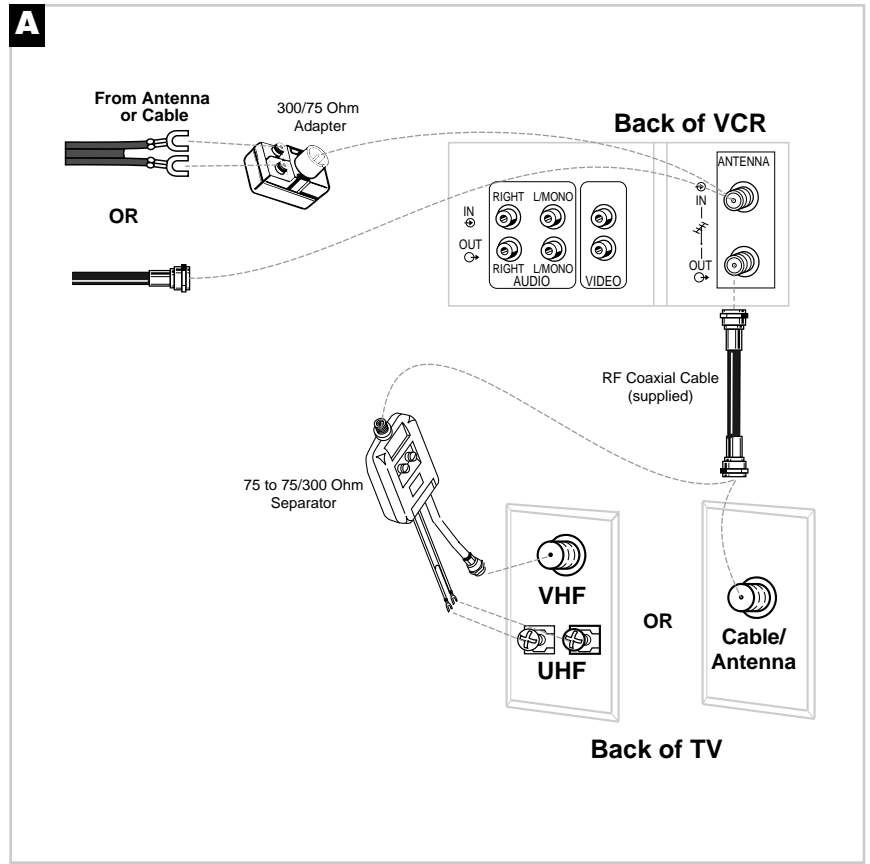
**1. Connect as shown.**

This connection may require additional accessories not provided.

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

**3. Continue to page 7.**

Tune the TV to channel 3 to view the VCR.



### B. Advanced hookup.

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

**1. Connect as shown.**

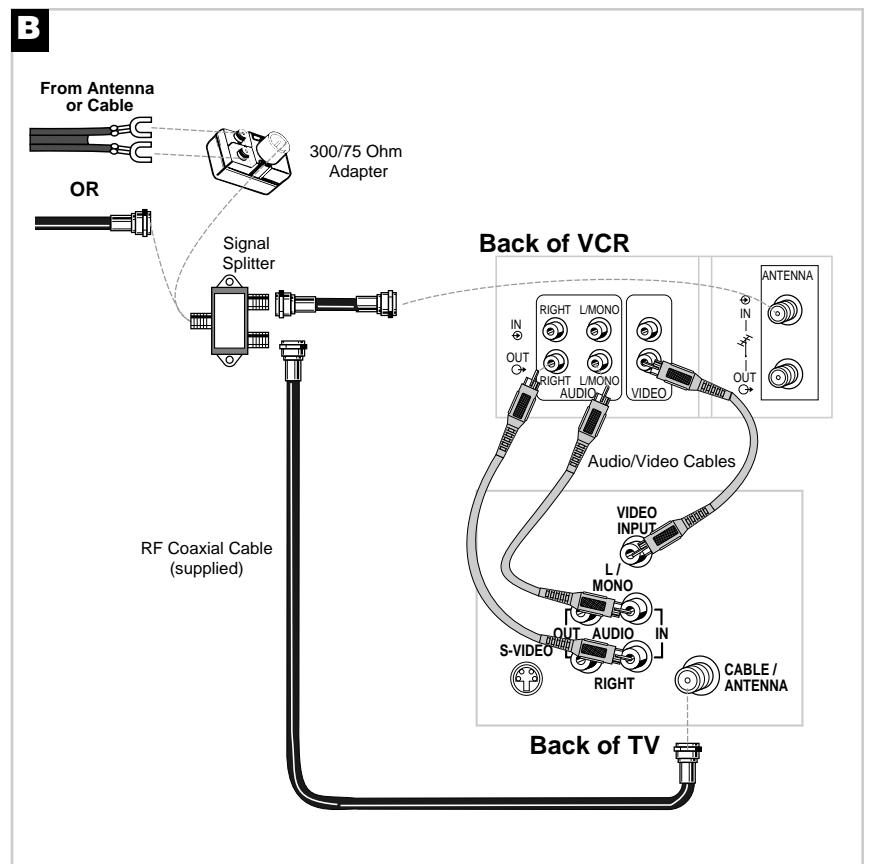
This connection requires additional accessories not provided.

If your TV is not stereo, connect its audio jack to the VCR's AUDIO L/MONO jack to hear sound from both channels.

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

**3. Continue to page 7.**

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 simple connection which requires fewer accessories.

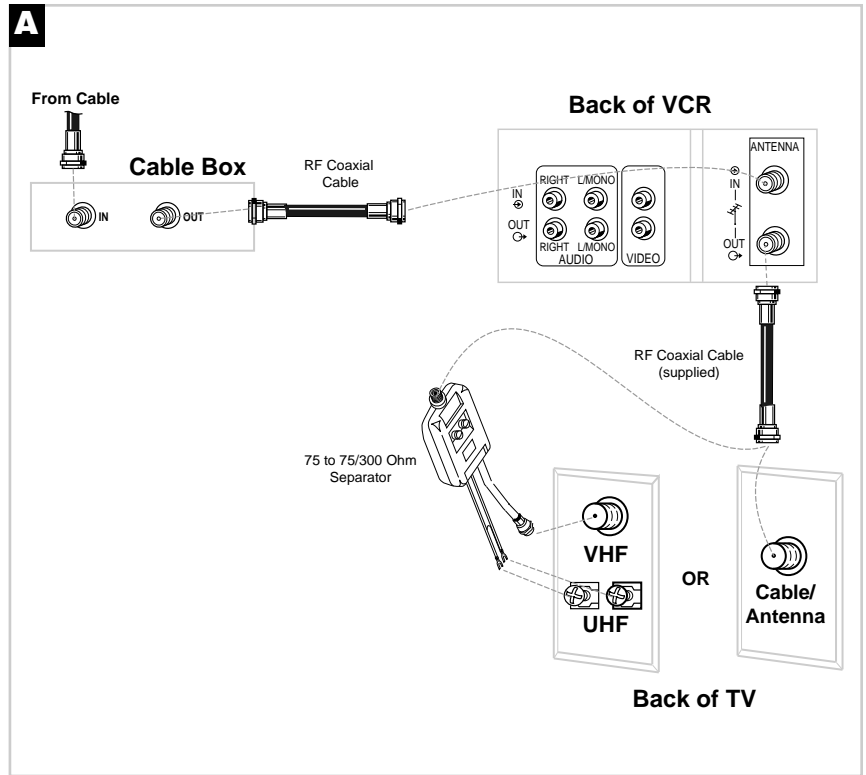
**1. Connect as shown.**

This connection may require additional accessories not provided.

**2. Plug in power cords of VCR, TV, and cable box.**

**3. Continue to page 7.**

Tune the TV to channel 3 to view the VCR.



## B. Advanced hookup.

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

**1. Connect as shown.**

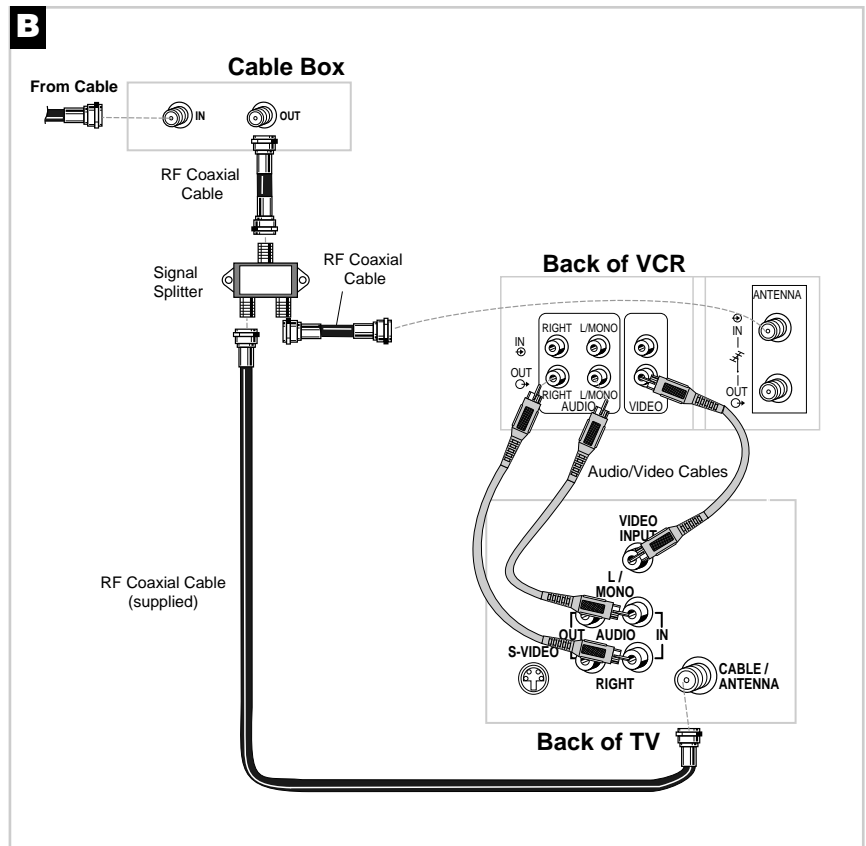
This connection requires additional accessories not provided.

If your TV is not stereo, connect its audio jack to the VCR's AUDIO L/MONO jack to hear sound from both channels.

**2. Plug in power cords of VCR, TV, and cable box.**

**3. Continue to page 7.**

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



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

# Cable System With Cable Box to Unscramble Only Pay Channels

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

## A. Basic hookup.

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

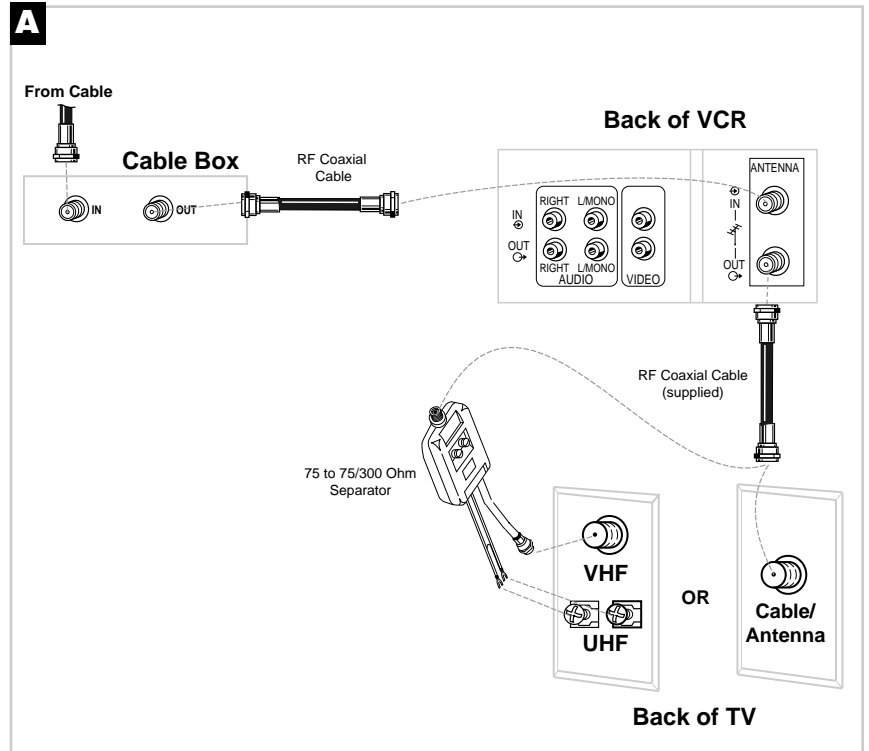
### 1. Connect as shown.

This connection may require additional accessories not provided.

### 2. Plug in power cords of VCR, TV, and cable box.

### 3. Continue to page 7.

Tune the TV to channel 3 to view the VCR.



## B. Advanced hookup.

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

### 1. Connect as shown.

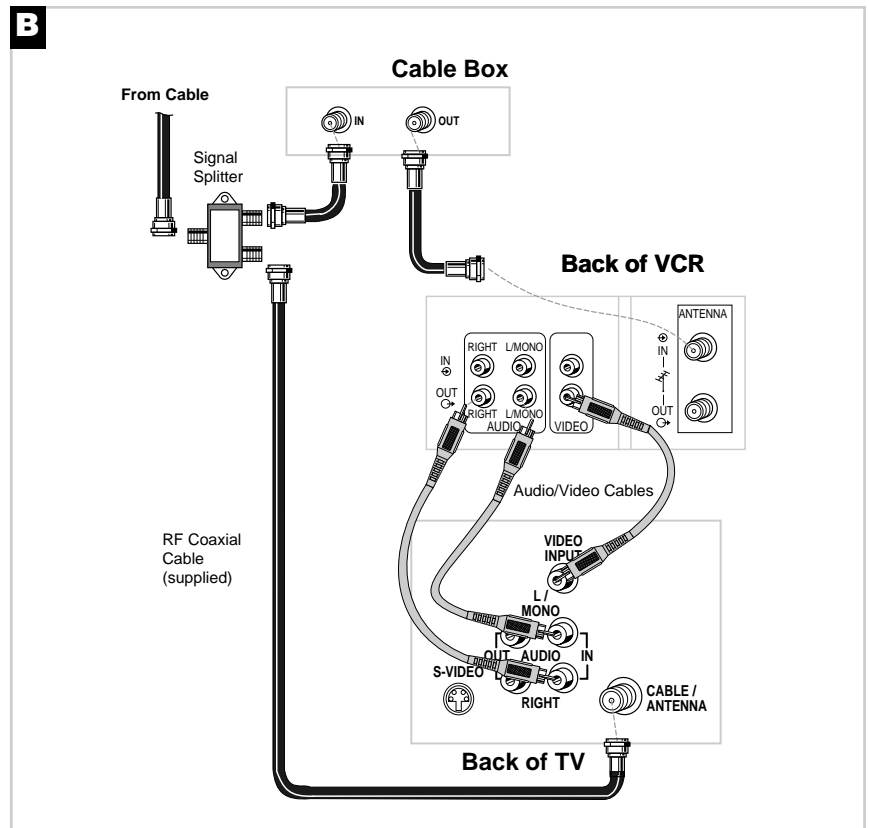
This connection requires additional accessories not provided.

If your TV is not stereo, connect its audio jack to the VCR's AUDIO L/MONO jack to hear sound from both channels.

### 2. Plug in power cords of VCR, TV, and cable box.

### 3. Continue to page 7.

Tune the TV to its video input to watch the VCR. All pay channels are viewed through the VCR.

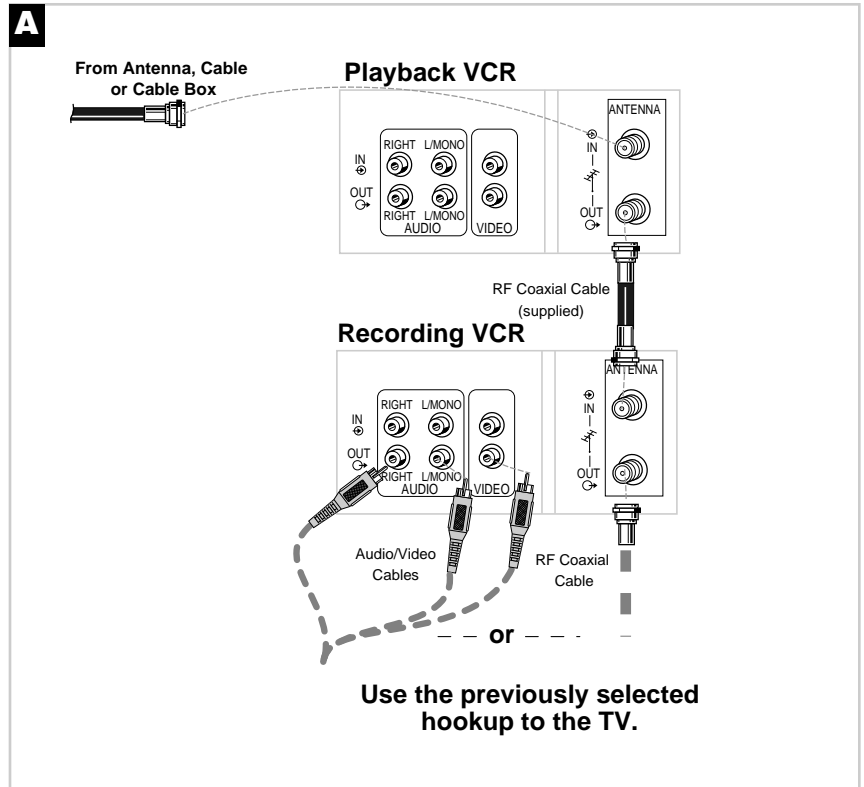


# Connecting Two VCRs for Copying Tapes

## Option A hookup.

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

1. Select a hookup from pages 2 through 5 and then modify with this connection.
2. Set the VCR output channel to either channel 3 or 4. See page 8 for details.  
You will 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. **Continue to page 7.**



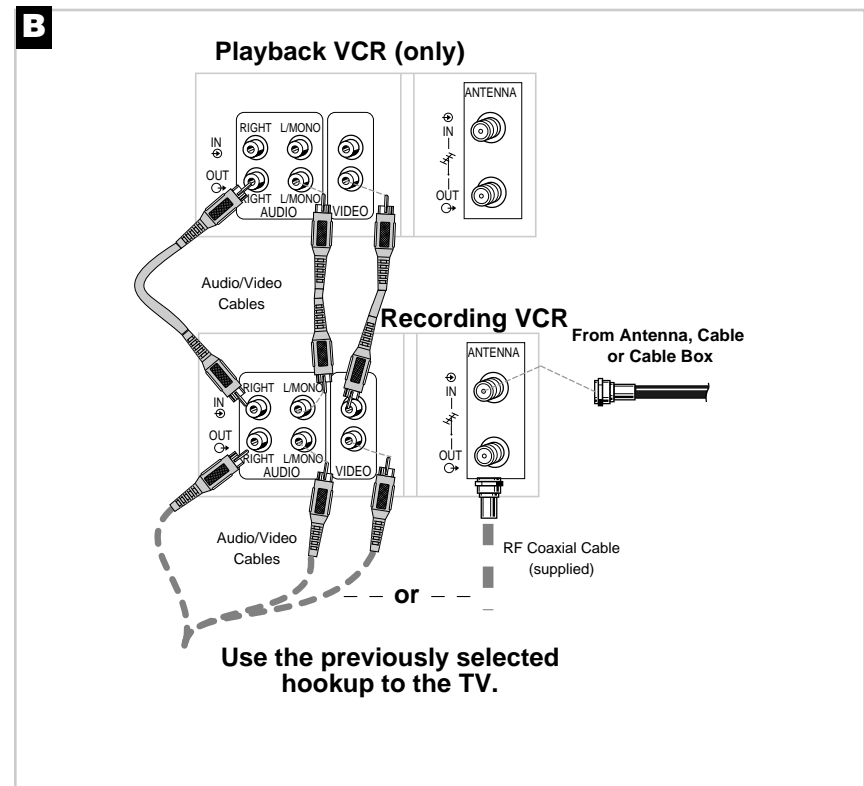
## Option B hookup.

Use this hookup for slightly improved copy quality and hi-fi stereo recording.

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.  
If your TV is not stereo, connect its audio jack to the VCR's AUDIO L/MONO jack to hear sound from both channels. If the VCR does not have a MONO jack, you may need a Y-adaptor.
3. Plug in power cords of VCRs and TV.
4. **Continue to page 7.**

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 or other materials may infringe the rights of others.

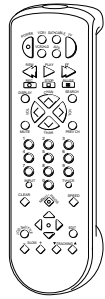




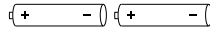
# Startup

## 1. Check accessories with VCR.

Contact your dealer if any items are missing.



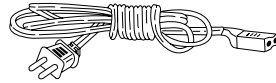
Remote  
(Stock No. 221405)



2 "AAA" Batteries

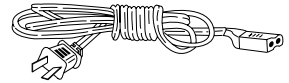


RF Coaxial Cable  
(Stock No. 221407)



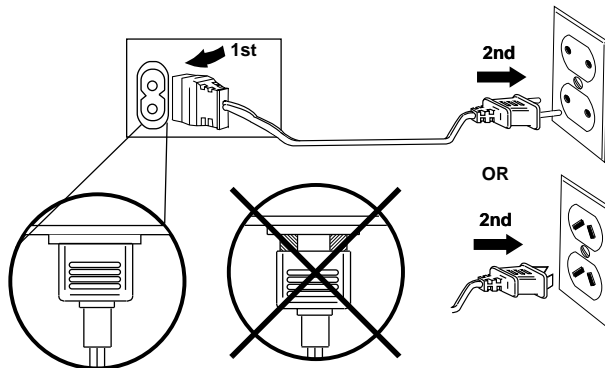
Power Cord  
(Stock No. 221408)

OR

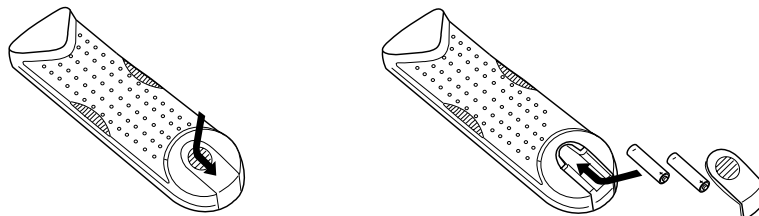


Power Cord  
(Stock No. 221423)

## 2. Attach power cord to back of VCR.



## 3. Insert batteries in remote.



## Startup

### 4. Turn on the TV.

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

### 5. Turn on the VCR.

Press VCR1 on the remote.

### 6. Select the VCR's output channel.

- A. Press VCR1 on the remote.
- B. Press MENU•PROG on the remote to see the VCR MAIN MENU on the TV screen.
- C. Press 4 to display the PREFERENCES menu.
- D. Press 3 to select either 3 or 4 as the output channel for your VCR. This is the channel to which you tune your TV to see the picture from the VCR.
  - If you select Output Channel: 3, you will view the VCR's output on channel 3 of your TV.
  - If you select Output Channel: 4, you will view the VCR's output on channel 4 of your TV.

If you change the output channel, remember to tune your TV to the channel you selected (3 or 4) to watch the VCR.

```
VCR MAIN MENU
1 Timer Recordings
2 Set Clock
3 Channels
4 Preferences
5 Language
6 Audio
0 Exit
```

```
PREFERENCES
1 Remote Control: VCR1
2 Front Panel: AUTO
3 Output Channel: 3
4 Play NTSC as: NTSC
0 Exit
```

## Startup

### 7. Select the language/Escoge una lengua.

This feature lets you select English or Spanish as the language for your on-screen menus.

- A. Press MENU•PROG on remote to see VCR MAIN MENU on the TV screen.
- B. Press 5 to display the LANGUAGE menu.
  - Press 1 to display the menus in English.
  - Press 2 to to display the menus in Spanish.

VCR MAIN MENU

- 1 Timer Recordings
- 2 Set Clock
- 3 Channels
- 4 Preferences
- 5 Language

LANGUAGE/IDIOMA

Select a language.  
Escoge una lengua.

- 1 English (Inglés)
- 2 Spanish (Español)

Press MENU to continue

### 8. Place channels in the VCR's memory.

Channels 2 through 13 including line inputs (L1 and L2) are in the VCR's memory when you first turn it on. The VCR stops on these channels when you press CHANNEL up or down. To get additional channels available on your antenna or cable system, you must use the Auto Channel Search feature of the VCR. If you ever change cable or antenna signals, you may need to auto channel search again. *See Cable Box Setup on page 28.*

- A. Press VCR1 to set remote to control VCR.
- B. Press MENU•PROG on the remote to see the VCR MAIN MENU on the TV screen.

If the menu does not appear on the TV screen:

- Press VCR1 and then press MENU•PROG.
- If you have used one of the basic hookups, make sure the TV is tuned to the same channel (3 or 4) as the Output Channel selected in the PREFERENCES menu.  
Check VCR indicator in display panel — it should be on.  
Press TV•VCR to turn it on.
- If you have connected your VCR using one of the advanced hookups, tune your TV to its video input (refer to TV Owner's manual).
- Check the connections.

- C. Press 3 to select CHANNELS.
- D. Press 1 to begin Auto Channel Search.

Wait until the channel numbers stop changing. The TV will then tune to the lowest channel found. Press CHANNEL up or down to select the active channels.

The VCR automatically selects ANTENNA or CABLE for the Signal Type feature in the CHANNELS menu. If you need to change the setting manually, press 3.

VCR MAIN MENU

- 1 Timer Recordings
- 2 Set Clock
- 3 Channels

CHANNELS

- 1 Auto Channel Search
- 2 Add/Remove Channels
- 3 Signal Type: CABLE
- 4 Cable Box Setup

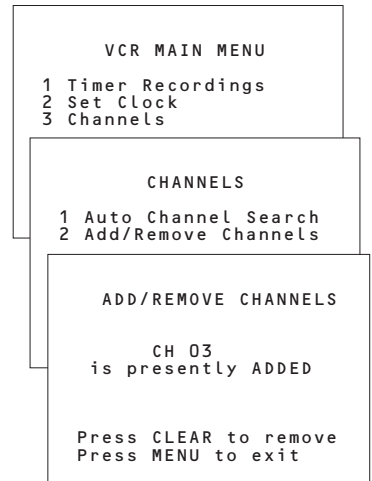
0 Exit

## Startup

### 9. 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.

- A. Press VCR1 on the remote.
- B. Press MENU•PROG on the remote to see the VCR MAIN MENU on the TV screen.
- C. Press 3 to display the CHANNELS menu.
- D. Press 2 to display the ADD/REMOVE CHANNELS menu.
- E. Follow the directions on the screen.
- F. Add or remove more channels by entering channel numbers or using the CHANNEL buttons.



### 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 the picture from the TV channel. This button lets you record a program on the VCR while watching another channel on the TV. *Details are on page 26.*

The VCR will automatically switch the TV•VCR setting to VCR every time the VCR is turned on, a tape with the safety tab removed is inserted, or you press PLAY.

- A. Press VCR1 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 changes in the display panel.
- 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 (3 or 4) — the same Output Channel you selected in step 6.
- F. Press VCR1, then TV•VCR to switch back to the picture from the VCR.

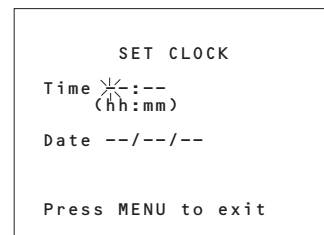
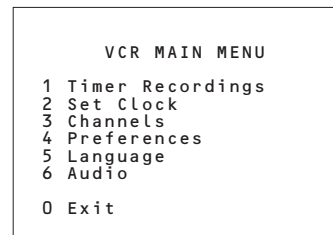
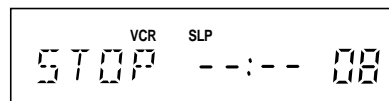
# Startup

## 11. Set the time and date.

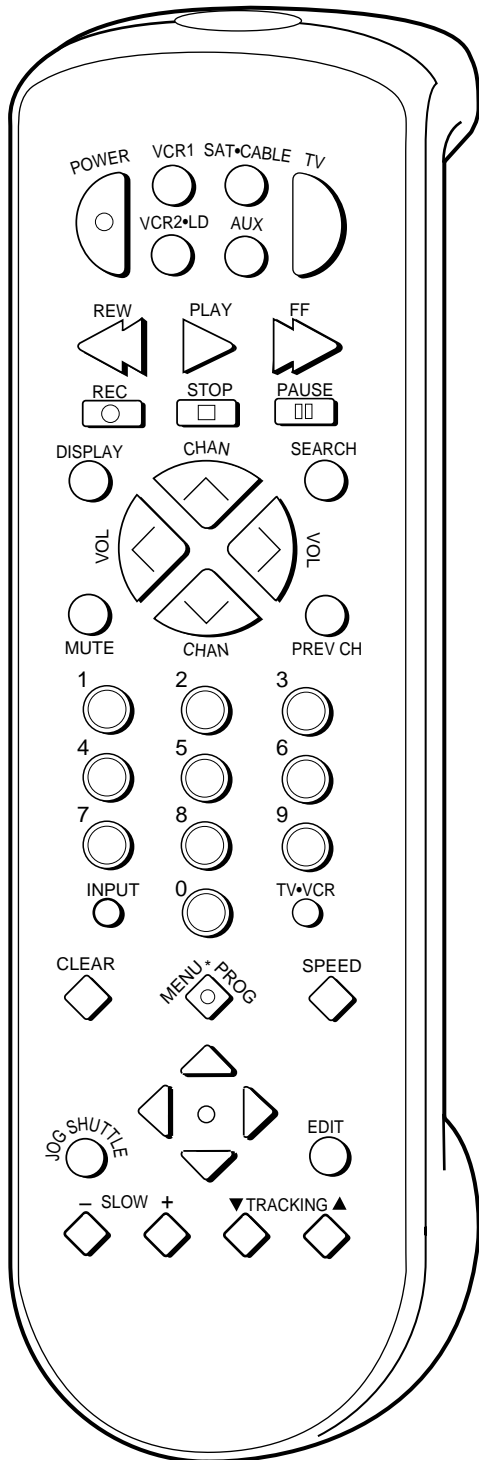
When you first turn on the VCR, --:-- appears in the clock area of the VCR's display panel.

- A. Press MENU•PROG on remote to see VCR MAIN MENU on the TV screen.
- B. Press 2 to display SET CLOCK.
- C. Enter the time and date with the number buttons on the remote.
  - Press 0 before single-digit numbers.  
Example: press 0, then 5, then 0, then 7 for a time of 5:07. Press 1 for AM or 2 for PM.
  - Press CLEAR on the remote to change incorrect entries.
- D. Press MENU•PROG to remove the SET CLOCK menu from the TV screen and start the clock.
- E. Press 0 to exit the menu system.

Whenever you press DISPLAY on the remote, the time and date appear on the TV screen and the time appears in the display panel.



# Buttons



## Component Buttons

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

### AUX (Auxiliary)

Used with POWER button to turn on compatible RCA audio component. (See page 17.)

### SAT•CABLE

Turns on a compatible RCA cable box or digital satellite system receiver. (See page 16.)

Used with POWER button to turn on another brand of cable box, other than RCA, when the remote is programmed to control that cable box. (See page 16.)

### TV

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

button to turn on another brand of TV, other than GE, when the remote is programmed to control that TV. (See page 15.)

### VCR1

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

### VCR2•LD

Turns on a compatible GE, RCA, or ProScan VCR and sets remote to control VCR when it has been setup. (See page 14.)

Used with POWER button to turn on compatible RCA or ProScan LaserDisc player.

## VCR Function Buttons

Press VCR1 (VCR2•LD) to set remote to control the VCR to use the function buttons.

### Arrow Buttons ( )

Used for frame advance and variable speed picture search when JOG SHUTTLE is turned on.

### 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 VCR for a timer recording.

### DISPLAY

Shows VCR operating displays on the TV screen.

Displays the time counter.

### EDIT

Signals two properly connected compatible VCRs to begin copying a tape. (See page 32.)

### FF (Fast Forward)

Fast forwards the tape when the VCR is stopped.

Searches the picture in forward motion during playback.

### INPUT

Turns the line input on or off.

L1 or L2 appears in VCR's display panel and VIDEO1 or VIDEO2 appears on TV screen.

Line input refers to the signal coming from the component connected to the audio/video input jacks on the back (L1) or front (L2) of the VCR.

### JOG SHUTTLE and Indicator Light

Used with arrow buttons for frame advance and variable speed search. (See page 21.)

The indicator in the middle of the arrow buttons lights when JOG SHUTTLE is turned on.

### MENU•PROG

Displays the VCR MAIN MENU on the TV screen.

Removes a menu from the screen.

### Numbers (0 through 9)

Select a channel up to 99 by pressing two numbers.

Select a cable channel over 99 by pressing and holding 1 until 1-- appears on the screen. Then press the other two numbers.

## Buttons

### VCR Function Buttons (continued)

#### PAUSE

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

#### PLAY

Plays a tape.

#### POWER

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

#### PREV CH (Previous Channel)

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

#### REC

Starts VCR recording.  
Used for one touch recording.  
(See page 29.)

#### REW (Rewind)

Rewinds the tape when the VCR is stopped.  
Searches the picture in reverse motion during playback.

#### SEARCH

Displays INDEX and ZERO SEARCH menus on TV.  
Press to advance the tape 60 or 120 seconds during playback.

#### SLOW - / +

Used for forward slow-motion playback.

#### SPEED (Tape Speed)

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

#### STOP

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

#### TRACKING Up and Down

Lets you manually reduce the streaks that may appear on the picture during play 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 page 11.)

### TV Function Buttons

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

#### Arrow Buttons ( )

Allow you to move through the menus, enter data, and change settings of selected features.

#### CHAN 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.

#### DISPLAY

Shows the status displays on the screen.  
Removes menus or displays from the screen.

#### MUTE

Turns the TV sound on or off.

#### Numbers (0 through 9)

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

#### POWER

Turns off a compatible TV when remote is set to control TV.  
Used with TV button to turn on a compatible TV, other than GE, when the remote is programmed to control that TV. (See page 15.)

#### PREV CH (Previous Channel)

Switches between two channels.  
Select one channel and then use the number buttons to select the other channel. Press PREV CH to switch between the two channels.

#### SLOW - / +

Used with the TV's menus to select and adjust features.

#### VOL Up and Down

Raises and lowers sound of the TV.

### Cable Box or Digital Satellite System Receiver Function Buttons

Press the SAT•CABLE button to set remote to control a compatible cable box or GE or RCA digital satellite system receiver. Some buttons may not work with every cable box. If you have a digital satellite system receiver, test the "TV Function Buttons" to see which ones operate the receiver.

#### CHAN Up or Down

Selects next higher or lower channel.

#### Numbers (0 through 9)

Select a channel using the number buttons.

#### POWER

Turns off a compatible cable box or satellite receiver.

## Controlling a VCR

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

### Program the VCR for Remote Control

Set the Remote Control feature of the VCR to the VCR1 or VCR2•LD position. The remote then controls the VCR with either the VCR1 or VCR2•LD button — whichever position you select in the menu.

1. Press MENU•PROG to display the VCR MAIN MENU.
2. Press 4 to display PREFERENCES.
3. Press 1 to activate the Remote Control feature.
4. Press VCR1 or VCR2•LD to change the setting and program this VCR to respond to the VCR1 or VCR2•LD button — whichever you select.

**Important Reminder:** Remember you must press VCR1 or VCR2•LD on the remote — whichever you selected in the menu — before the remote will operate this VCR.

#### VCR MAIN MENU

- 1 Timer Recordings
- 2 Set Clock
- 3 Channels
- 4 Preferences

#### PREFERENCES

- 1 Remote Control: VCR1
- 2 Front Panel: AUTO
- 3 Output Channel: 3
- 4 Play NTSC as: NTSC

#### PREFERENCES

- 1 Remote Control: VCR1
- 2 Front Panel: AUTO
- 3 Output Channel: 3
- 4 Play NTSC as: NTSC

Press VCR2 to change



## Controlling a TV

The VCR's remote is preprogrammed to control the basic functions of a compatible GE, RCA, or ProScan TV. The remote can also be set up to control other manufacturer's brands. To program the remote, enter 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. If the TV changes channels when you press CHAN up or down, setup is complete.
4. Release the buttons.
5. Repeat steps 2 – 4 with a different code if the first one does not work.

**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.

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

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

### Operate the TV

After you have 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 TV does not turn on in step 1, press TV and then POWER.
3. Use the "TV Function Buttons" as described on page 13.

## Controlling a Cable Box or a Digital Satellite System Receiver

The SAT•CABLE button on the VCR's remote is preprogrammed to control either a compatible RCA cable box or GE or RCA digital satellite system 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 your cable box. To program the VCR's remote, enter the code that corresponds to your brand.

### Program the Remote

1. Turn on the cable box.
2. Point the VCR remote at the cable box.
3. Hold the SAT•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 turns off, setup is complete.
6. Repeat steps 2 – 5 with a different code if the first one does not work.

Brand of Cable-TV Box*	Code Number(s)
ABC	53,54
Anvision	07, 08
Cablestar	07, 08
Eagle	07,08
Eastern International	02
General Instrument	04, 05, 15, 23, 24, 25, 30, 36
Hamlin	12, 13, 34,48
Hitachi	37, 43
Jerrold	04, 05, 15, 23, 24, 25, 30, 36, 45, 46,47
Macom	37, 43
Magnavox	07, 08, 19, 26, 28, 29, 32, 33, 40, 41
NSC	09
Oak	01, 16, 38
Oak Sigma	16
Panasonic	03, 27, 39
Philips	07, 08, 19, 26, 28, 29, 32, 33, 40, 41
Pioneer	18, 20, 44
Randtek	07, 08
RCA	00, 27
Regal	12, 13
Regency	02, 33
Samsung	44
Scientific Atlanta	03, 22, 35
Sylvania	11
Teknika	06
Texscan	10, 11
Tocom	17, 21,49, 50
Unika	31, 32, 41
Universal	51, 52
Viewstar	07, 08, 19, 26, 28, 29, 32, 33, 40, 41
Warner Amex	44
Zenith	14, 42

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

### Operate the Cable Box or Digital Satellite System Receiver

After you have set up your remote (if required) to control your cable box, test the buttons to see which ones operate your cable box or satellite receiver.

1. Point the remote at the cable box or satellite receiver and press SAT•CABLE.
2. If the cable box does not turn on in step 1, press SAT•CABLE and then POWER.  
If the GE or RCA digital satellite system receiver does not turn on in step 1, reprogram the remote using 00.
3. Use the "Cable Box or Digital Satellite System Receiver Function Buttons" for the cable box and test the "TV Function Buttons" to see which ones operate the satellite receiver. See page 13.

## Controlling an Auxiliary RCA Component

The remote that came packed with your VCR is also capable of controlling one compatible RCA audio component, such as an AM/FM radio, CD player, tape player, or phonograph. The remote must be programmed for the specific component it is to control. To program the remote, use the code that corresponds to your component.

### Program the Remote for an Auxiliary Component

1. Turn on the component.
2. Point the VCR's remote at the component.
3. Hold the AUX button and press two number buttons to enter the code for your component.
4. Release the buttons.
5. Press POWER on the remote. If the component turns off, setup is complete.

Type of Auxiliary Audio Equipment and Code*				
	AM/FM	CD	Tape	Phono
RCA	03	07	06	05

\* The remote may not be able to control every RCA model of audio equipment listed.

### Operate the Auxiliary Component

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

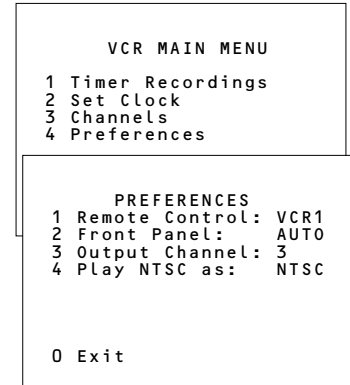
1. Point the remote at the component and press AUX.
2. If the component does not turn on in step 1, press AUX and then POWER.
3. Test the buttons on the remote to see which ones operate your component.

# Operating Instructions

## Video Playback Mode

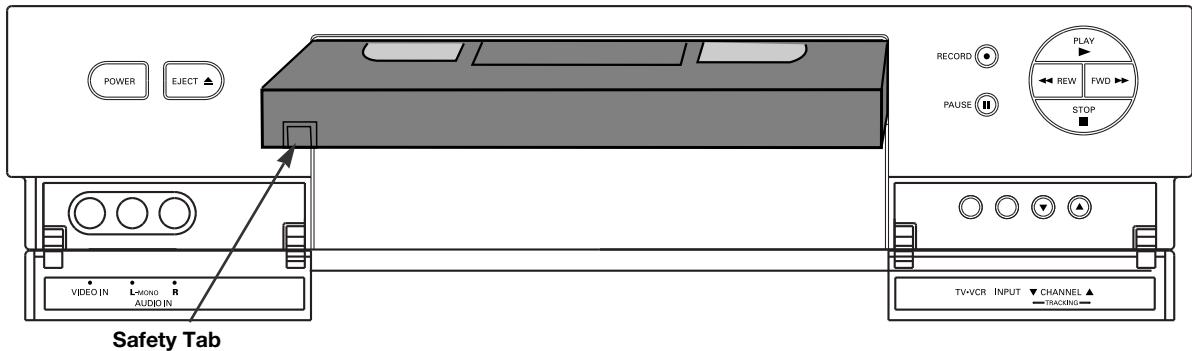
You can select the type of playback for tapes recorded in NTSC.

1. Press MENU•PROG on the remote to see the VCR MAIN MENU on the TV screen.
2. Press 4 to display the PREFERENCES menu.
3. Press 4 to select NTSC or PAL playback.
  - Select Play NTSC as: PAL to have an NTSC tape play back in PAL.
  - Select Play NTSC as: NTSC to have the tape play back in NTSC.



## Play a Tape

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



3. Press PLAY, if necessary. PLAY appears in the VCR's display panel.
4. Press TRACKING up or down to remove any streaks from the picture, if necessary. *Details are on page 20.*
5. Press STOP.
6. Press REW.  
 The VCR will automatically rewind the tape if it reaches the end of the tape during playback. While rewinding, you can press POWER and the VCR will turn off after rewinding.
7. Press EJECT on the VCR to eject the tape once it is completely rewound.

## Using the Playback Features

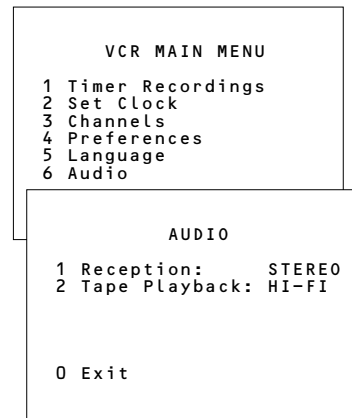
### Tape Playback: HI-FI/LINEAR/MIX Feature

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. Monaural 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/MIX feature lets you select which audio you play back.

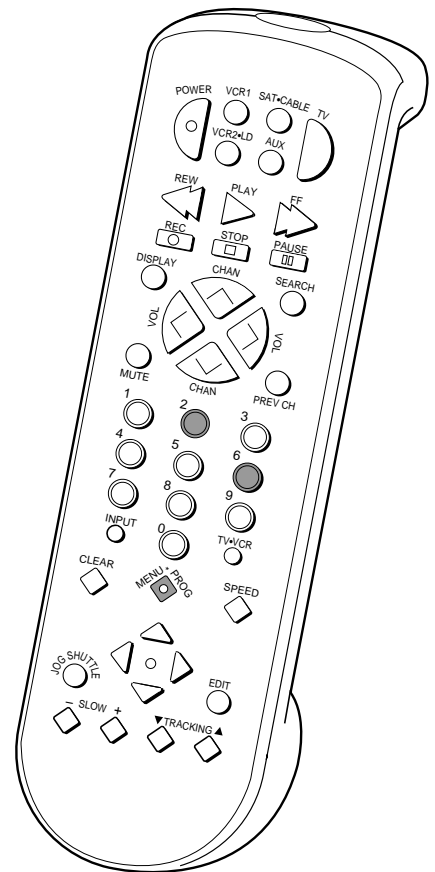
#### To Select Playback Sound

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



### Auto Head Cleaner

The VCR has an automatic head cleaner that minimizes the need for professional head cleaning.



## Using the Playback Features

### Pause for Stop Action

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

1. Press PAUSE during playback to stop the action. STILL appears in the VCR's display panel.
2. Press TRACKING up or down to reduce any jittering of the picture.
3. Press PAUSE or PLAY to return to playback.  
The VCR will automatically switch from stop-action playback to stop after a few minutes.

### Slow Motion

You can view the picture in forward slow motion during play or play pause. SLOW up and down allow you to change the speed. Sound is turned off during slow-motion playback. Slow motion works best in the SP or SLP speed.

1. During playback, press SLOW up or down to start slow-motion playback. SLOW+ appears in the VCR's display panel.
2. Press SLOW + to increase the speed or SLOW - to decrease the speed.
3. Use TRACKING up or down to remove any streaks from the picture.
4. Press PLAY to return to playback.  
The VCR will automatically switch from slow-motion playback to stop after a few minutes.

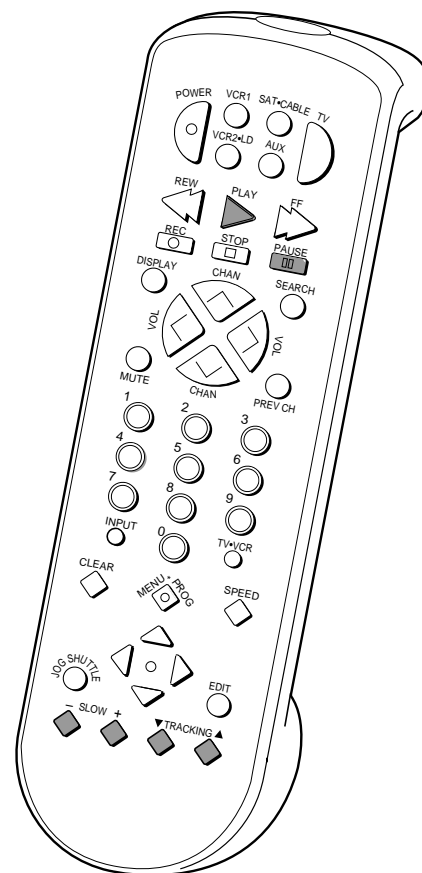
### Digital Auto Tracking

The VCR has digital auto 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.

### Manual Tracking

Occasionally, you may need to manually adjust tracking on a tape recorded on a different VCR or camcorder. The TRACKING buttons on the remote or VCR are used when playing a tape. They have no effect during recording.

- When streaks or snow appear, press TRACKING up or down for the best possible picture.
- Press TRACKING up or down during stop-action pause to reduce picture "jitter".
- Press both TRACKING buttons at the same time to turn automatic tracking back on.



## Using the Playback Features

### Picture Search

You can search a picture during playback by fast forwarding or rewinding the tape. The picture is best for tapes recorded in the SP or SLP speed. Sound is turned off during picture search. Also, during picture search in the LP speed, the color is turned off.

### 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 on the remote, FWD on the VCR, or PLAY to return to playback.

### Rewind Search

1. Press REW to search in reverse at a faster-than-normal speed.
2. Press REW or PLAY to return to playback.

### Variable Speed Picture Search and Frame Advance Using JOG SHUTTLE on Remote

You can use the JOG SHUTTLE and arrow buttons (◀▶) on the remote to search a picture during playback. Turning on the JOG SHUTTLE feature (light in the center of the arrow buttons turns on) lets you search forward and backward through a tape while in the PLAY or STILL mode.

### Searching in the Play Mode

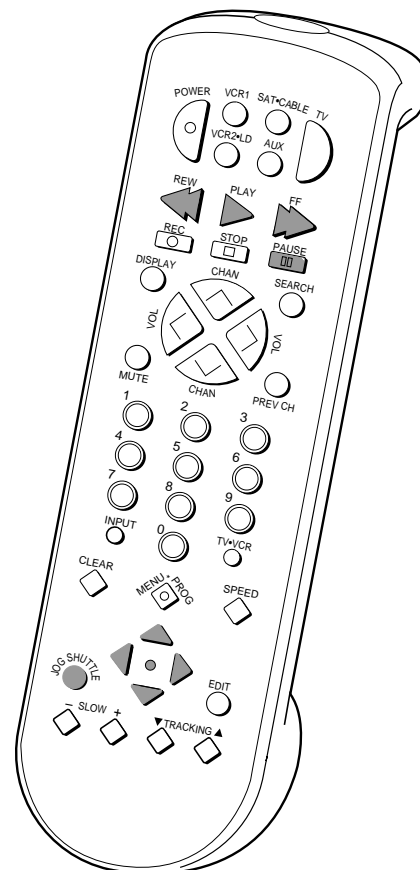
When the VCR is playing a tape, press JOG SHUTTLE on the remote to have the VCR enter the still mode. STILL appears in the display panel.

- Press and release ▶ to search forward slowly. The speed is increased with each press of the ▶ button. As the speed increases, the display changes from SLOW + to SRCH +. Pressing the ◀ button decreases the speed. Press PLAY to return to normal playback and turn off JOG SHUTTLE.
- Press ◀ and release to search in reverse slowly. The speed is increased with each press of the ◀ button. As the speed increases, the display changes from SLOW - to SRCH -. Pressing the ▶ button decreases the reverse speed. Press PLAY to return to normal playback and turn off JOG SHUTTLE.

### Searching in the Still Mode (Frame Advance)

When you turn on JOG SHUTTLE during playback, you are in the STILL mode. From this mode, you can advance the tape frame-by-frame.

- Press ▲ to advance or ▼ to reverse the picture one frame at a time. The display switches between STILL and SLOW + or -. Press PLAY or PAUSE to return to normal playback and turn off JOG SHUTTLE.



## Using the Playback Features

### DISPLAY Button

1. Press DISPLAY on the remote to display the status of the VCR, channel number, time counter, date, time, and tape speed on the TV screen. The time will appear in the display panel.

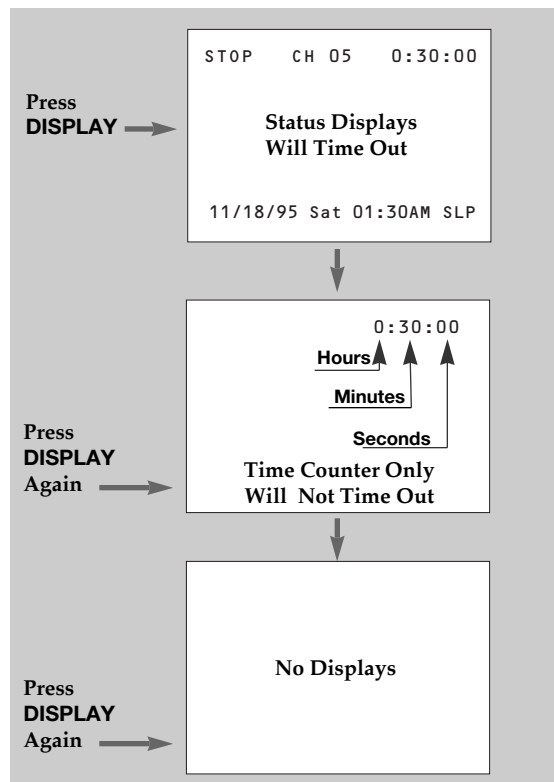
The time and date must be set before they are displayed. If you do not press DISPLAY again, these displays will time out.

2. Press DISPLAY again to have only the time counter remain on the TV screen. The time counter will appear instead of the time in the VCR's display panel.
3. Press DISPLAY again to remove the time counter from the TV screen.

The time counter will remain in the VCR's display panel and no status displays will appear on the TV screen. This is convenient for editing tapes.

4. Press DISPLAY again to return to the normal status displays.

Turning off the VCR automatically returns the displays to normal.



### Time Counter

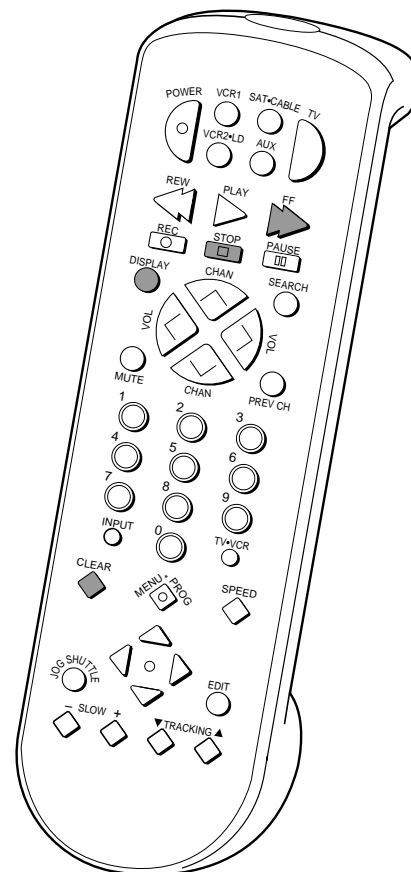
The time counter shows the actual time it takes to record a program or play back a segment of a prerecorded tape. It helps locate the beginning or end of programs you taped. The time counter resets to 0:00:00 whenever the tape is ejected from the VCR.

For example, if a 30-minute program was recorded at the beginning of the tape, you would:

1. Insert the prerecorded tape. Press STOP. Make sure the tape is rewind.
2. Press DISPLAY on the remote twice to display only the time counter on the TV screen.
3. Press CLEAR on the remote to reset the time counter to 0:00:00.
4. Press FF on the remote or FWD on the VCR to fast forward the tape until the time counter reads 0:30:00. Press STOP.

This is the approximate end of the program and you can begin recording at this spot.

5. Press DISPLAY twice to remove the time counter from the screen and return to the normal displays.





## Using the Playback Features

### Index Search

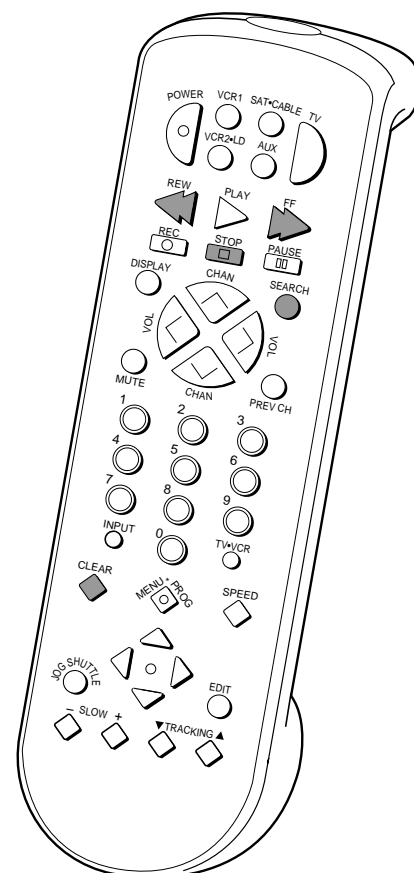
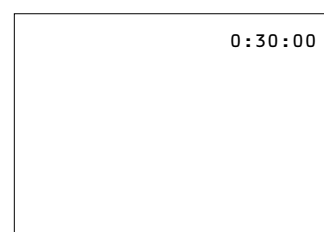
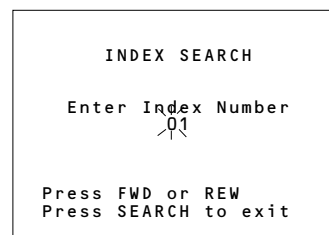
The VCR has a "VHS Index Search System" that automatically records an index mark on the tape every time you stop and then start a new recording. During playback you can locate the program you want to play by the number of index marks.

The VCR will automatically locate the index number you select. The VCR will search forward or reverse from the location you are on the tape.

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 two number buttons to enter the number of index marks you want the VCR to search.  
Press CLEAR on the remote to correct an entry.
4. Press FF on the remote or FWD on the VCR to search forward.  
Press REW to search in reverse.
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.

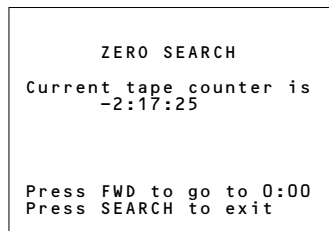
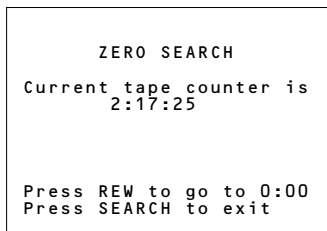


# Using the Playback Features

## Zero Search

The zero search feature allows you to quickly return to a counter reading of 0:00:00 at any spot on the tape. This is convenient when you want to watch a segment of the tape several times.

1. Insert the prerecorded tape and press STOP.
2. Press DISPLAY twice to display only the time counter on the TV screen.
3. Locate the point on the tape that you want to return to quickly.
4. Press CLEAR to reset the time counter to 0:00:00.
5. You can continue to play the tape or perform other functions. When you are finished, press STOP.
6. Press SEARCH twice to display the ZERO SEARCH menu. The current tape counter is displayed.



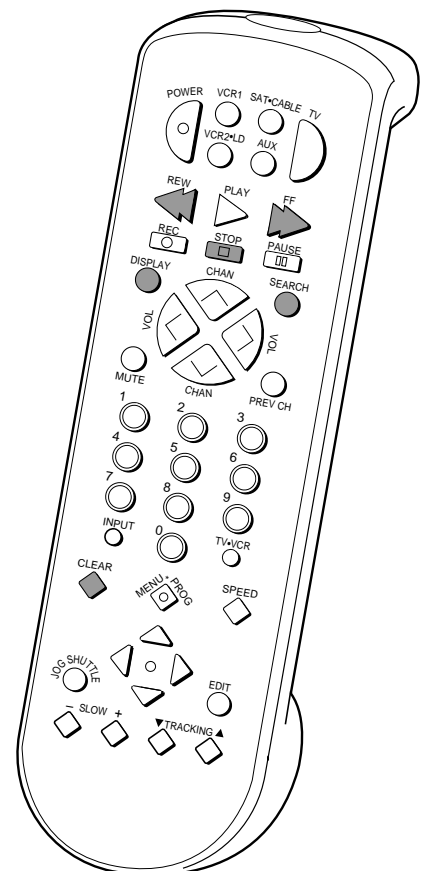
7. Press REW to return to 0:00:00. The time counter is displayed in the upper right corner of the TV screen during search.

If the time counter reading has a minus (-) in front of it, press FF on the remote or FWD on the VCR to return to a reading of 0:00:00.

## Commercial Scan

This is useful for scanning commercials or short program segments.

1. Press SEARCH once during playback to advance the tape approximately 60 seconds.
2. Press SEARCH twice during playback to advance the tape approximately 120 seconds.



## Types of Recordings

Your VCR provides different types of recording. These types are explained in the following sections:

**Basic Recording – Operating Instructions**

**Recording While You're Away**

**Timer Recording**

**One Touch Recording**

**Recording Broadcast Stereo TV or SAP (Second Audio Program)**

**Recording Audio Only**

**Using Two VCRs for Copying Tapes**

## Using the Recording Features

### Recording Speeds

Press SPEED on the remote to select a recording speed (SP, LP, or SLP). The speed you select appears on the TV screen and in the VCR's display panel. The VCR automatically selects the playback speed (SP, LP, or SLP).

Cassette Type	Recording Time		
	SP	LP	SLP
T120	2Hr	4Hr	6Hr
T160	2Hr 40Min	5Hr 20Min	8Hr

**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, slow motion, picture search, and frame advance work well in SP.

**LP (Long Play)** gives twice the recording time of tapes recorded in SP. Special effects in playback are not recommended in LP.

**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 in SLP.

### Recording Pause

This feature allows you to prevent recording short passages of unwanted material.


Press PAUSE during recording to stop and start recording. REC P appears in the VCR's display panel.

The VCR will automatically switch from pause to stop after a few minutes.

## **Basic Recording – Operating Instructions**

### **To Make a Recording**

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

1. Insert a tape with safety tab in place.  
The cassette-in indicator  lights in the VCR's display panel.
2. Press VCR1 (VCR2•LD) to set remote to control the VCR.
3. If using one of the basic hookups, make sure the VCR indicator appears in the VCR's display panel. If not, press TV•VCR to turn it on.
4. Select recording speed using SPEED on the remote.  
The tape speed indicator appears in the VCR's display panel and on the TV screen.
5. Select the channel to be recorded.  
The channel number appears in the VCR's display panel and on the TV screen.
6. Press REC on the remote or RECORD on the VCR to begin recording. REC appears in the VCR's display panel while the VCR is recording.

### **Watch a TV Channel While VCR is Recording a Different Channel**

1. Follow steps 1 through 6 above.
2. If using one of the basic hookups, press TV•VCR to switch to the TV channel. The VCR indicator will turn 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 when recording is finished.

## Recording While You're Away (Timer Recording)

The timer program feature lets 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 safety tab has been inserted with enough tape to record the programs.
- The remote is set to control the VCR — using VCR1 (VCR2•LD).
- If you receive all channels through a cable box (or satellite receiver), select a cable box or satellite receiver channel *on the next page*.

### Setting a Timer Recording

1. Press MENU•PROG on remote to display VCR MAIN MENU.
2. Press 1 to display TIMER RECORDINGS menu.
3. Press 1 to display 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 to select line input), start time including AM or PM, end time, and start date of the recording. Just follow the on-screen prompts.
 

Press CLEAR to correct an entry.

If you receive all channels from a cable box (or satellite receiver) and have completed CABLE BOX SETUP, the output channel of your cable box (or satellite receiver) will automatically appear on the display.
6. Select recording speed using SPEED on the remote.
7. Press MENU•PROG to enter your program. A reminder appears which will time out or you can press MENU•PROG to return to the VCR MAIN MENU.
 

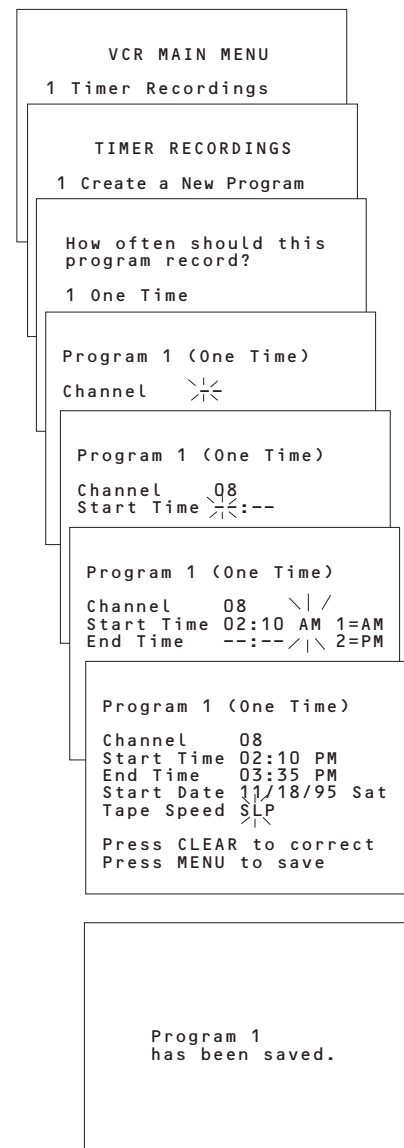
PROGRAMS OVERLAP may appear on the screen if you have entered two programs where the times overlap.
8. The TIMER RECORDINGS menu appears. Press 1 to enter an additional timer program, or press 0 to exit.
9. **Turn off the VCR** before recording begins.
 

TIMER appears in the VCR's display panel when the timer has been programmed.
10. **If using a cable box or satellite receiver, leave it turned on and tuned to the channel you want to record.**

### Stopping a Recording in Progress

**With the VCR:** Press POWER and then STOP within a few seconds.

**With the Remote:** Press VCR1 (VCR2•LD) and then STOP within a few seconds.

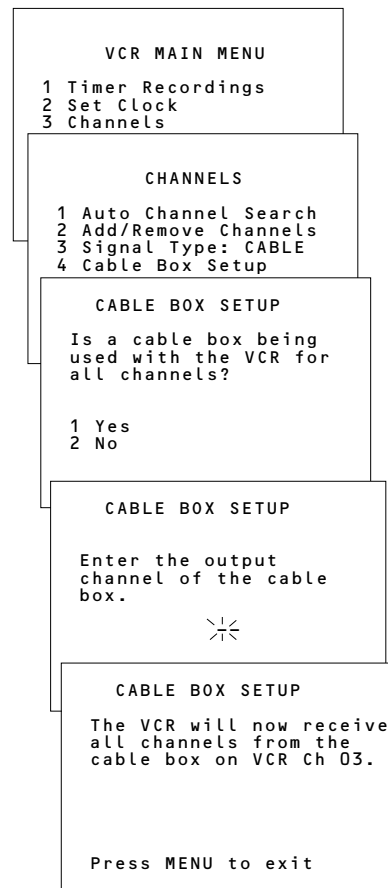


## Recording While You're Away (Timer Recording)

### Select Cable Box (or Satellite Receiver) Channel

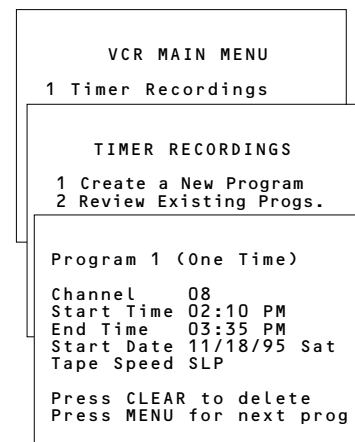
If you receive all channels from a cable box (or satellite receiver) and complete Cable Box Setup, the VCR will automatically enter the output channel of your cable box (or satellite receiver) as the channel to be recorded in the TIMER RECORDINGS menu.

1. Press MENU•PROG to display the VCR MAIN MENU on the TV screen.
2. Press 3 to select CHANNELS menu.
3. Press 4 to select Cable Box Setup menu.
4. **Cable box not used for all channels:** Press 2. You are finished with cable box setup.  
**Cable box (or satellite receiver) used for all channels:** Press 1 to continue .
5. Press two numbers on the remote to enter the output channel of your cable box (or satellite receiver). Press 0 before a single-digit number. Valid numbers are 01 – 99.  
If you connected your cable box (or satellite receiver) to the VCR using it's AUDIO/VIDEO OUT jacks, press INPUT on the remote to select the VIDEO IN option.  
Press CLEAR on the remote to correct an entry.
6. Press MENU•PROG to proceed.  
A message appears showing the output channel of your cable box (or satellite receiver) that the VCR will automatically enter as the channel to be recorded in the TIMER RECORDINGS menu.
7. Press MENU•PROG to proceed.



### Check or Clear a Timer Recording

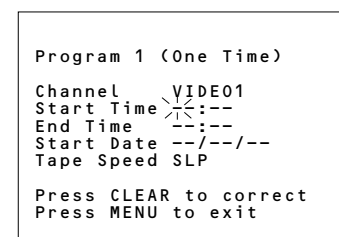
1. Press MENU•PROG on remote to display the VCR MAIN MENU on the TV screen.
2. Press 1 to display the TIMER RECORDINGS menu.
3. Press 2 for Review Existing Progs. feature.  
The first program in the timer is displayed.
  - **Check the Programs:** Press MENU•PROG to display information for the next program.
  - **Clear the Program:** Press CLEAR when the program appears that you want to delete.



### Timer Recording From the VCR's Line Input

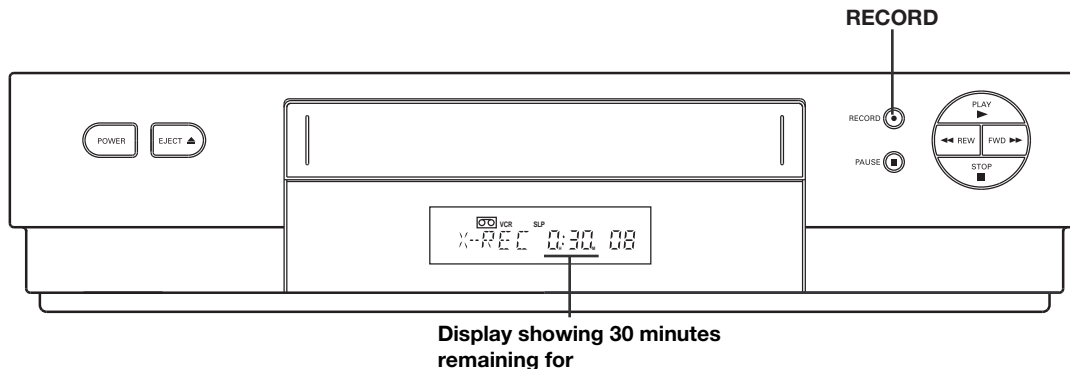
The line input refers to the signal coming from the AUDIO and VIDEO IN jacks of the VCR. Recording from the line input is convenient if you have a satellite receiver or similar component attached to these jacks. To timer record from the component connected to the VCR's line input:

Press INPUT to enter the channel number when you program the timer. Enter VIDEO1 to record from the jacks on back of the VCR or VIDEO2 to record from the jacks on the front of



# One Touch Recording

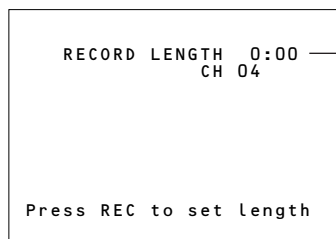
One touch recording lets you record up to four hours without using the timer program feature. The VCR will turn off automatically at the end of the recording.



## Operating Instructions

1. Turn on the VCR.
2. Insert a tape with safety tab in place.
3. Select the channel you want to record.
4. Select the desired recording speed using SPEED on the remote.
5. Press REC on the remote or RECORD on the VCR to activate recording.
6. Press REC on the remote or RECORD on the VCR repeatedly until the amount of recording time for the program is displayed in the VCR's display panel or 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)
0:00	(Turns Off)



Display on TV Screen

Each press increases the time — 30 minutes up to four hours.

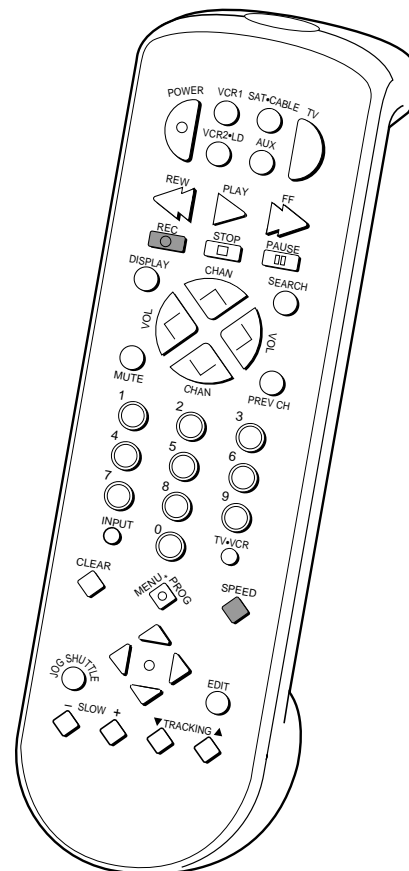
The amount of time the VCR will record and X-REC will appear in the VCR's display panel.

You can increase the amount of recording time by pressing REC on the remote or RECORD on the VCR.

## Stopping a Recording in Progress

**With the VCR:** Press POWER and then STOP within a few seconds.

**With the Remote:** Press VCR1 (VCR2•LD) and then STOP within a few seconds.



# Recording Broadcast Stereo 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

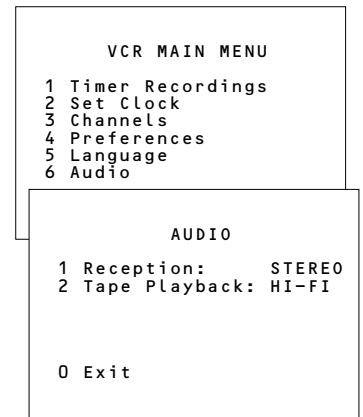
Turn on the TV and tune it to the VCR viewing channel, either 3, 4, or TV's video input.

1. Insert a tape with safety tab in place.
2. If using one of the basic hookups, make sure the VCR indicator appears 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 in the VCR's display panel and on the TV screen.
4. Select the channel or line input (L1 or L2) to be recorded. The channel number, VIDEO1, or VIDEO2 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•PROG on the remote to display the VCR MAIN MENU on the TV screen.
  - B. Press 6 to display the AUDIO menu.
  - C. Press 1 to select the type of audio Reception: STEREO, MONO, or SAP.
    - Set to STEREO for normal recording and to record broadcast stereo TV.

The STEREO indicator lights in the VCR's display panel when the station you are tuned to is broadcasting stereo.
    - Set to MONO if the stereo signal is weak and the sound is too "noisy".
    - Set to SAP to record SAP (second audio program) instead of the normal audio on both the hi-fi and linear tracks.

The SAP indicator ( ■ ) lights in the VCR's display panel.

Set the Tape Playback: HI-FI/LINEAR/MIX feature to LINEAR to hear SAP. *Details are on page 19.*
  - D. Repeatedly press 0 to remove the menus from the TV screen.
6. Press REC on the remote or RECORD on the VCR to start recording. REC appears in the VCR's display panel.
7. Press STOP when you are finished.



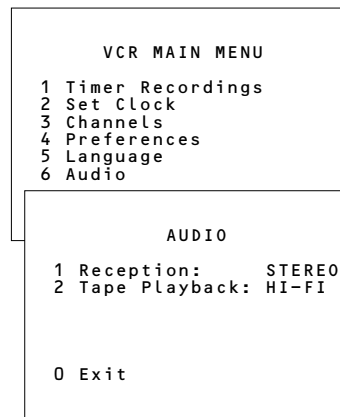


## Recording Audio Only

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

### To Record Audio Only

1. Press INPUT to select L1 to record from the jacks on the back of the VCR or L2 to record from the jacks on the front of the VCR.  
The VCR will record audio from the audio equipment connected to the AUDIO IN jacks.
2. Use SPEED to select the recording speed.  
The tape speed indicator appears in the VCR's display panel and on the TV screen.
3. Make sure the Reception: STEREO/MONO/SAP feature is set to STEREO.
  - A. Press MENU•PROG to display the VCR MAIN MENU on the TV screen.
  - B. Press 6 to display the AUDIO menu.
  - C. Press 1 to select Reception: STEREO.
4. Start audio source playing and press REC on the remote or RECORD on the VCR to begin recording.  
REC appears in the VCR's display panel.
5. Press STOP when you are finished.



## Using Two VCRs for Copying and Editing Tapes

### Operating Instructions (Refer to hookup on page 6.)

Use this VCR as the playback VCR and the other VCR as the recording VCR. If you have two compatible VCRs, use the AutoEdit feature *described below*.

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

1. Turn on the TV and VCRs.
2. Tune TV to the VCR viewing channel, either 3, 4, or TV's video input.
3. If you have connected your VCR using Option A (*page 6*), tune recording VCR to channel 3 or 4 — the one selected in the Output Channel feature in the PREFERENCES menu.  
  
If you have connected your VCR using Option B (*page 6*), press INPUT on the recording VCR to select L1 to record from the jacks on the back of the VCR or L2 to record from the jacks on the front of the VCR.
4. Insert the tape you want to copy into playback VCR. Insert a blank tape with safety tab in place into recording VCR.  
  
To prevent recording on-screen displays from the playback VCR, press DISPLAY three times. *See page 22 for details.*
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, then PAUSE, on recording VCR.
7. Press 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 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 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.

### Using Dual Remote with AutoEdit™

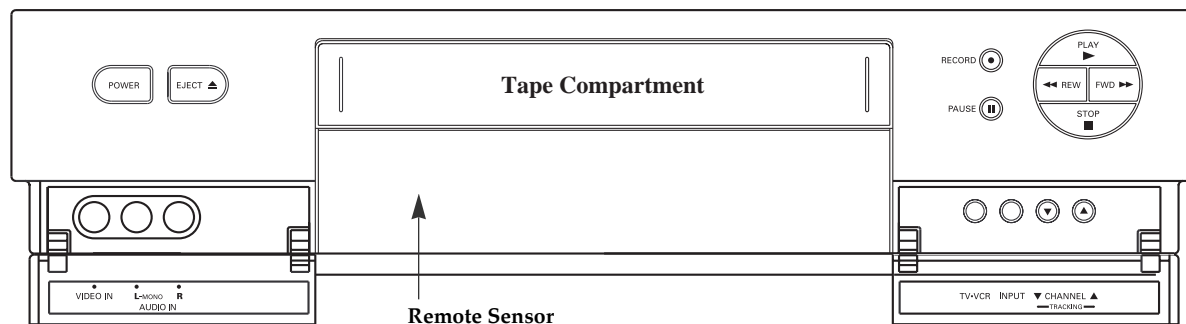
Use this VCR as the playback VCR and set it to respond to VCR2•LD on the remote *as described on page 14*.

Use your other compatible VCR as the recording VCR, which should respond to VCR1.

1. Follow steps 1 – 4 in the "Operating Instructions" above.
2. Press VCR1 on remote to control recording VCR. Press REC, then PAUSE, to put recording VCR in pause mode.
3. Press VCR2•LD on remote to control playback VCR.
4. Use FF, REW, and PLAY to locate the point where you want to begin copying. Press PAUSE while VCR is playing to put playback VCR in pause mode.
5. Press EDIT on remote to start the VCRs copying.
6. Press EDIT again when you want to stop the tape from copying.
7. Repeat steps 4 – 6 as needed.
8. Press VCR1, STOP, then VCR2•LD, STOP, when you are finished.

# Location of Controls

## 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

Press when the VCR is stopped to eject the cassette.

### FWD (Fast Forward)

Fast forwards the tape when the VCR is stopped.  
Searches the picture forward during playback.

### INPUT

Turns the line input on or off. L1 or L2 appears in VCR's display panel and VIDEO1 or VIDEO2 appears on the TV screen.

Line input refers to the signal coming from the component connected to the audio/video input jacks on the back (L1) of the VCR or front (L2) 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 one touch recording.

### Remote Sensor

Receives signals from the remote control.  
Aim the remote at this sensor with no objects between them.

### REW

Rewinds the tape when the VCR is stopped.  
Searches the picture in reverse during playback.

### STOP

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

### TV•VCR

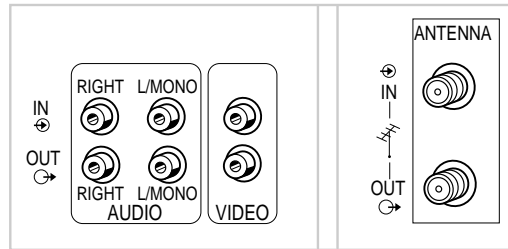
Switches the picture signal so that it either comes from the VCR or the TV channel.  
*See page 11.*

### VIDEO and AUDIO (R and L•MONO) IN Jacks

Receives signals from another component, like a VCR or camcorder, when it is connected to these jacks.  
Use INPUT to select L2 in the VCR's display panel to record from these jacks.

# Location of Controls

## Back Panel



### ANTENNA IN Connector

Receives the signal from an antenna or cable system that is attached to this connector.

### ANTENNA OUT Connector

Passes signal to TV using the coaxial cable supplied.

### VIDEO and AUDIO (RIGHT and L/MONO) IN Jacks

Receives signals from another component, like a VCR or camcorder, when it is connected to these jacks. Use INPUT to select L1 in the VCR's display panel to record from these jacks.

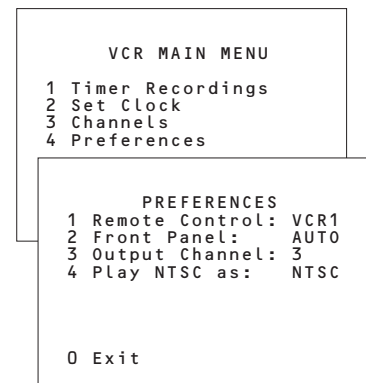
### VIDEO and AUDIO (RIGHT and L/MONO) OUT Jacks

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

## Display Panel

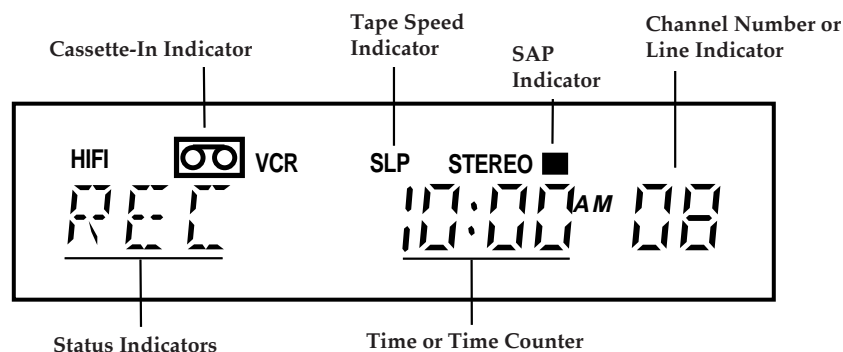
This VCR has a feature that allows you to change the brightness level of the fluorescent display panel.

1. Press MENU•PROG on the remote to see the VCR MAIN MENU on the TV screen.
2. Press 4 to display the PREFERENCES menu.
3. Press 2 to select Front Panel: AUTO, BRIGHT, or DIM.
  - 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.
  - Select DIM to keep the display panel dim.



# Location of Controls

## Display Panel (continued)



### Cassette-In Indicator ( )

Lights when a tape is in the VCR.

### Channel Number, L1, or L2

The channel number or line indicator (L1 or L2) is displayed.

Select L1 to record from the jacks on the back of the VCR or L2 to record from the jacks on the front of the VCR.

### HIFI Indicator

Lights during playback when Tape Playback: HI-FI/LINEAR/MIX feature is set to HI-FI.

### SAP Indicator ( )

Lights when the Reception: STEREO/MONO/SAP feature is set to SAP.

### Status Indicators

Show what the VCR is doing.

EJECT	Ejecting Tape
FFWD	Fast forward
HELLO	Turned on
PLAY	Playback
REC	Record
REC P	Record pause
REW	Rewind

SRCH +	Forward search
SRCH -	Reverse search
SLOW +	Slow motion
STILL	Frame advance
STILL	Play pause
STOP	VCR stopped
TAPE flashes	Set for timer – no tape
TIMER	Timer recording set
X-REC	One touch recording in progress

### STEREO Indicator

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

### Tape Speed Indicators (SP, LP, or SLP)

Press SPEED on the remote to change.

### Time or Time Counter

Press DISPLAY on the remote to switch between the current time and elapsed-time counter.

### VCR Indicator (Applies Only to Basic Hookups)

Press TV•VCR to turn on or off.

VCR indicator on: Picture from VCR.

VCR indicator off: Picture from TV channel.

## 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 Service Center.

Trouble	Here's what to try:
No power	<ul style="list-style-type: none"> <li>• Plug VCR into an operating outlet.</li> <li>• Check connections.</li> </ul>
Clock shows incorrect time or date	<ul style="list-style-type: none"> <li>• Power interruption. Clock area in display panel will show - -: -.</li> <li>• Clock was not set accurately (check AM/PM and date).</li> <li>• Time counter display appears in display panel. Press DISPLAY on remote.</li> </ul>
Remote locks up	<ul style="list-style-type: none"> <li>• Remove batteries and hold down one or more buttons for several seconds to drain the microprocessor inside the remote to reset it. Reinstall the batteries and try remote again.</li> </ul>
VCR does not respond to remote	<ul style="list-style-type: none"> <li>• Press VCR1 (VCR2•LD) to set remote to control the VCR. <i>See page 14.</i></li> <li>• Aim remote at VCR with no objects between them.</li> <li>• Change batteries.</li> </ul>
Remote no longer controls an GE TV	<ul style="list-style-type: none"> <li>• Press TV to set remote to control the corresponding compatible TV. <i>See page 15.</i></li> <li>• Reprogram remote for GE TV. <i>See page 15.</i></li> <li>• Aim remote at TV with no objects between them.</li> <li>• Change batteries.</li> </ul>
Remote no longer controls a compatible TV, other than GE	<ul style="list-style-type: none"> <li>• Press TV to set remote to control a compatible TV. <i>See page 15.</i></li> <li>• Aim remote at component with no objects between them.</li> <li>• Reprogram remote after batteries have been changed.</li> <li>• Change batteries.</li> </ul>
VCR only responds to VCR2 button on remote	<ul style="list-style-type: none"> <li>• Check setting of Remote Control: VCR1/VCR2 feature. <i>See page 14.</i></li> </ul>
No picture when VCR turned on – using a basic hookup	<ul style="list-style-type: none"> <li>• Press TV•VCR to turn VCR indicator on. <i>See page 11.</i></li> <li>• Check TV channel selected (3 or 4) to make sure it matches the channel selected with the Output Channel feature. <i>See page 8.</i></li> </ul>
Poor or no picture for normal TV viewing	<ul style="list-style-type: none"> <li>• Press TV•VCR to turn VCR indicator off.</li> <li>• Switch TV to an active channel.</li> <li>• Check antenna connections.</li> </ul>
Snowy or no picture during playback	<ul style="list-style-type: none"> <li>• Press TV•VCR to turn VCR indicator on.</li> <li>• Check TV channel selected (3 or 4) to make sure it matches the channel selected with the Output Channel feature. <i>See page 8.</i></li> <li>• Check TV's fine tuning.</li> <li>• Check video cable connections between VCR and TV monitor.</li> <li>• Set TV monitor to video input channel.</li> <li>• Try another tape.</li> <li>• Some snow / streaks are normal during search, frame advance, slow-motion, or stop-action playback.</li> <li>• If tape is recorded in NTSC, make sure Play NTSC as: NTSC or PAL feature is set correctly. <i>See page 18.</i></li> </ul>
No Color	<ul style="list-style-type: none"> <li>• If PAL/NTSC is not set correctly, the VCR may play a black and white picture.</li> </ul>

Trouble	Here's what to try:
Time counter not working	<ul style="list-style-type: none"> <li>• 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.</li> <li>• A minus (-) will appear in front of the time if you rewind the tape farther back than a counter reading of 0:00:00.</li> </ul>
Will not record or play	<ul style="list-style-type: none"> <li>• No cassette in VCR.</li> <li>• Eject and re-insert cassette.</li> <li>• Broken tape — try another cassette.</li> </ul>
Streaks in picture during normal playback	<ul style="list-style-type: none"> <li>• Some snow / streaks are normal during search, frame advance, slow-motion, or stop-action playback.</li> </ul>
Will not record	<ul style="list-style-type: none"> <li>• VCR is in pause mode. Press PAUSE.</li> <li>• Safety tab removed from cassette.</li> <li>• Make sure the line indicators (L1 and L2) are turned off in VCR's display panel for normal recording from the VCR's tuner. Press INPUT to turn off the line indicator.</li> </ul>
Rewind does not operate	<ul style="list-style-type: none"> <li>• Tape already rewound.</li> </ul>
Timer recording not made or wrong program recorded	<ul style="list-style-type: none"> <li>• Program entered incorrectly (wrong channel or times).</li> <li>• Power interruption. Clock area in display panel will show - -: -.</li> <li>• Check to see if time and date are correct — including AM/PM.</li> <li>• Program exceeded tape's length or tape was not rewound beforehand.</li> <li>• VCR was not turned off at the time recording was to start.</li> <li>• No tape in VCR or cassette's safety tab broken off.</li> <li>• Cable box not turned on at time recording was to begin.</li> </ul>
VCR makes noise when stopped	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Will not auto search active channels correctly	<ul style="list-style-type: none"> <li>• Check antenna connections.</li> <li>• Check Signal Type: CABLE/ANTENNA feature. <i>See page 10.</i></li> </ul>
Cannot select channels over 69	<ul style="list-style-type: none"> <li>• Cable channels over 69 can only be selected if Signal Type: CABLE/ANTENNA feature is set to CABLE. <i>Details are on page 10.</i></li> </ul>
Stereo or SAP sound not recorded	<ul style="list-style-type: none"> <li>• Reception: STEREO/MONO/SAP feature must be set to STEREO to record broadcast stereo. <i>See page 30.</i></li> <li>• Reception: STEREO/MONO/SAP feature must be set to SAP to record SAP. <i>See page 30.</i></li> <li>• STEREO or SAP indicator not on. Station not broadcasting stereo or SAP.</li> </ul>
No stereo sound during playback	<ul style="list-style-type: none"> <li>• Tape Playback: HI-FI/LINEAR/MIX feature must be set to HI-FI to hear stereo sound during playback. <i>See page 19.</i></li> </ul>
Stereo audio too noisy	<ul style="list-style-type: none"> <li>• Stereo signal is weak. Set Reception: STEREO/MONO/SAP feature to MONO.</li> </ul>

## Specifications

<b>Format:</b>	VHS
<b>Record/Playback System:</b>	Video: 4-Head Audio: 2 Hi-Fi record/playback system
<b>Video Signal System:</b>	PAL N Recording and Playback NTSC Playback
<b>Antenna:</b>	75-ohm external VHF/UHF combined antenna terminal
<b>Tuner:</b>	USA: 181 channels capability* (125 cable channels)
<b>Type:</b>	AutoProgramming frequency synthesis
<b>Power Requirement:</b>	100-240V AC (+/- 10%), 50-60 Hz
<b>Power Consumption:</b>	22 watts (7 watts for standby)
<b>Dimensions:</b>	3.5 inches high (90 mm) 15.43 inches wide (392 mm) 12.1 inches deep (309.5 mm)
<b>Weight:</b>	9.46 pounds (4.3 kg)
<b>Other:</b>	Automatic Head Cleaner 30-Minute Memory Backup
<b>Storage Temperature Range:</b>	- 22°F to +149°F (- 30°C to +65°C)
<b>Operating Temperature Range:</b>	+41°F to +104°F (+5°C to +40°C)

\*Check your cable company's compatibility requirements.

## Cleaning the VCR

Use a soft, dry, and clean 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. Do not use any scouring agents, solvents, or abrasive products. 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.



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

 **THOMSON CONSUMER ELECTRONICS**

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