

VR524

USER'S GUIDE

S-57-04-851

RECORDER



VIDEO CASSETTE

RECORDER

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.

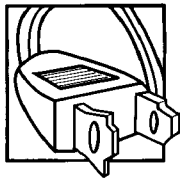


This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



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.

Do not defeat the safety feature of the plug. The wide blade fits into the wall socket only one way. If you need an extension cord, make sure it matches the plug of the product.

For U.S.A. — Operate VCR only on 120 volts, 60Hz AC power (normal house power).

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. **VR524** _____

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 using a signal splitter. 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.

3. What type of RCA DSS[®] satellite system do you have?**

Choose one answer from below.

- A. Satellite receiver connected to TV without audio/video inputs – Turn to page 6.
- B. Basic satellite receiver connected to TV with audio/video inputs – Turn to page 7.
- C. Deluxe satellite receiver connected to TV with audio/video inputs – Turn to page 7.

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 8.

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

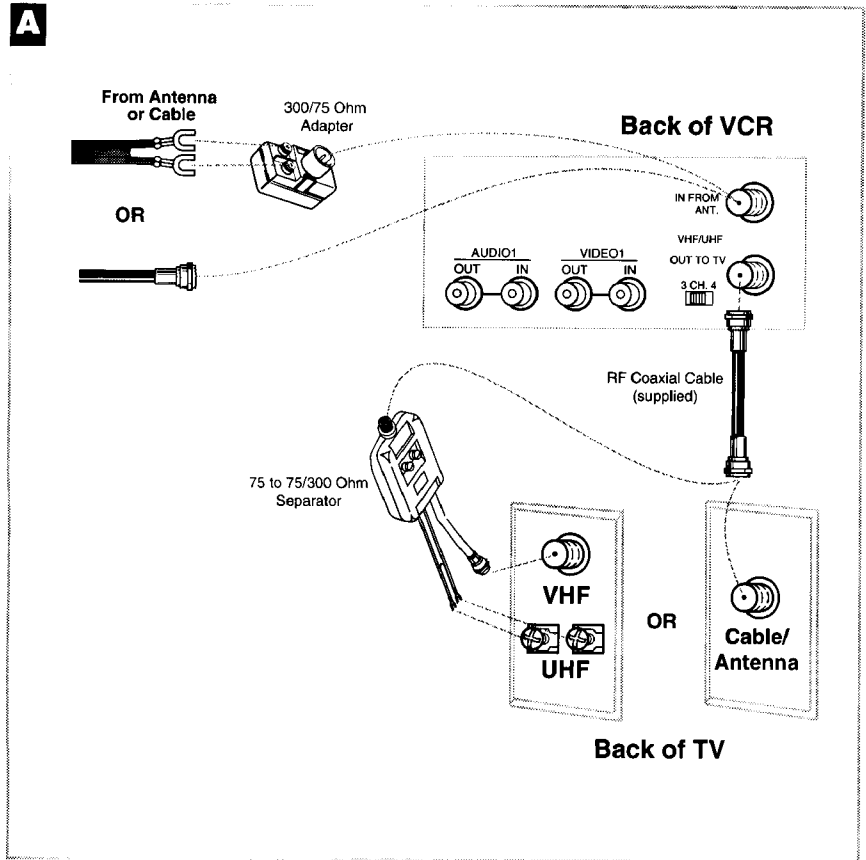
**DSS[®] is a registered trademark of DIRECTV, Inc., a unit of Hughes Electronics Corporation.

Antenna or Cable System Without a Cable Box

A. Basic hookup.

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

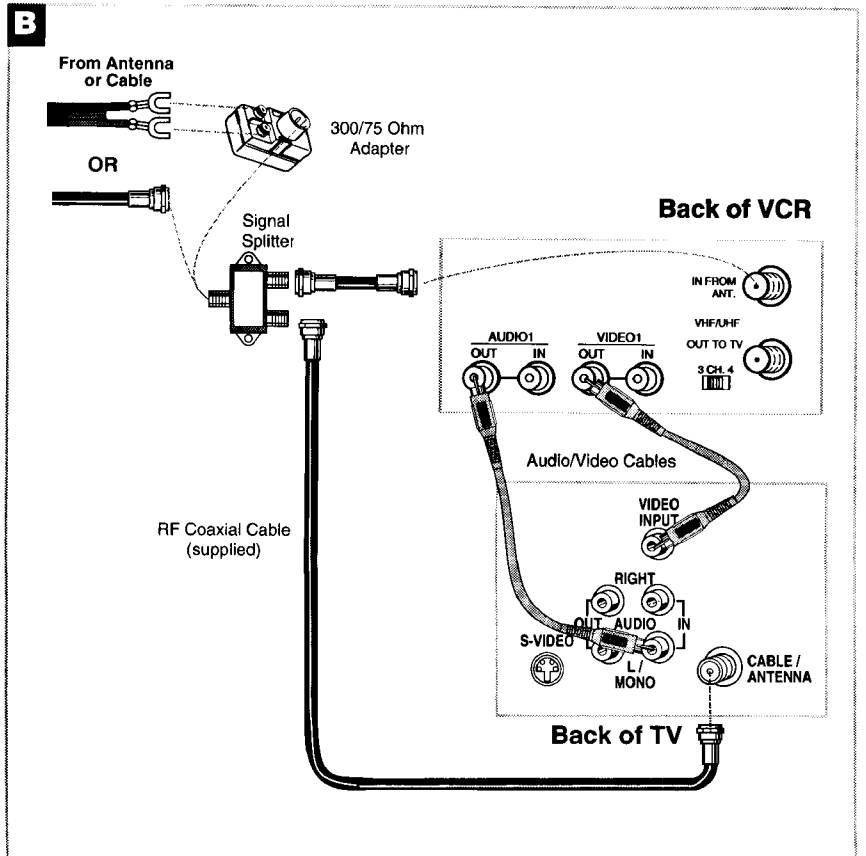
1. Set the 3CH.4 switch on back of VCR to either channel 3 or 4.
Tune the TV to this channel and use the TV•VCR button to watch the VCR.
2. Connect as shown.
This connection may require additional accessories not provided.
3. Plug in power cords of VCR and TV.
4. **Go to "Startup" section.**



B. Advanced hookup.

Use this hookup for slightly improved picture quality 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 channels if your TV is 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.

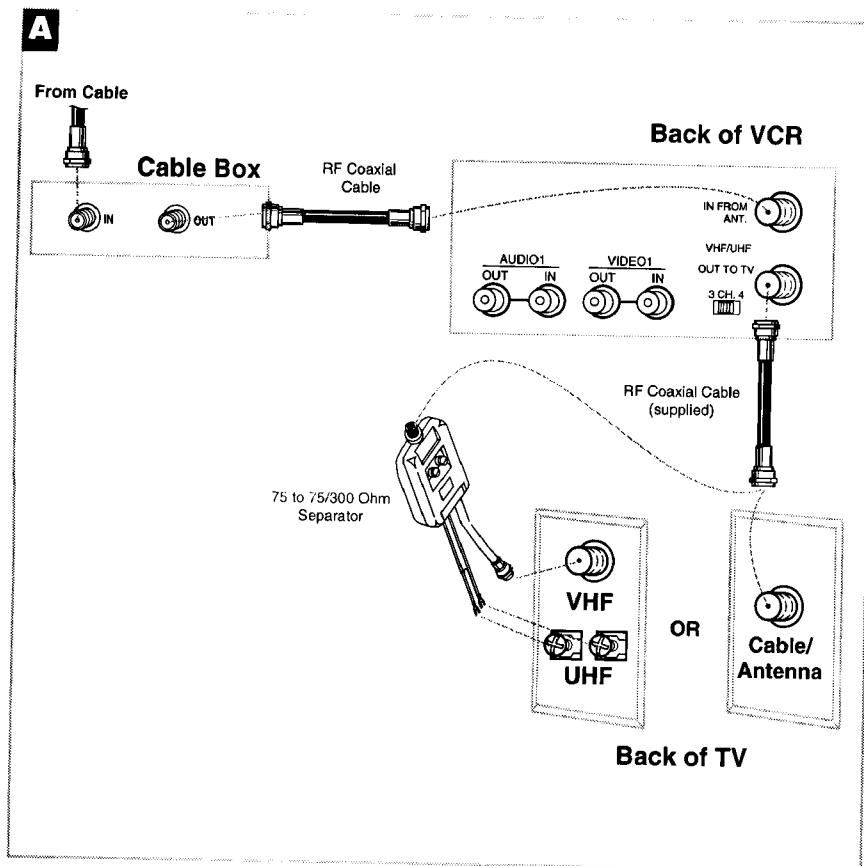
Tune the TV to this channel and use the TV•VCR button to watch the VCR.

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 and more convenient operation — use of the TV•VCR button is not required.

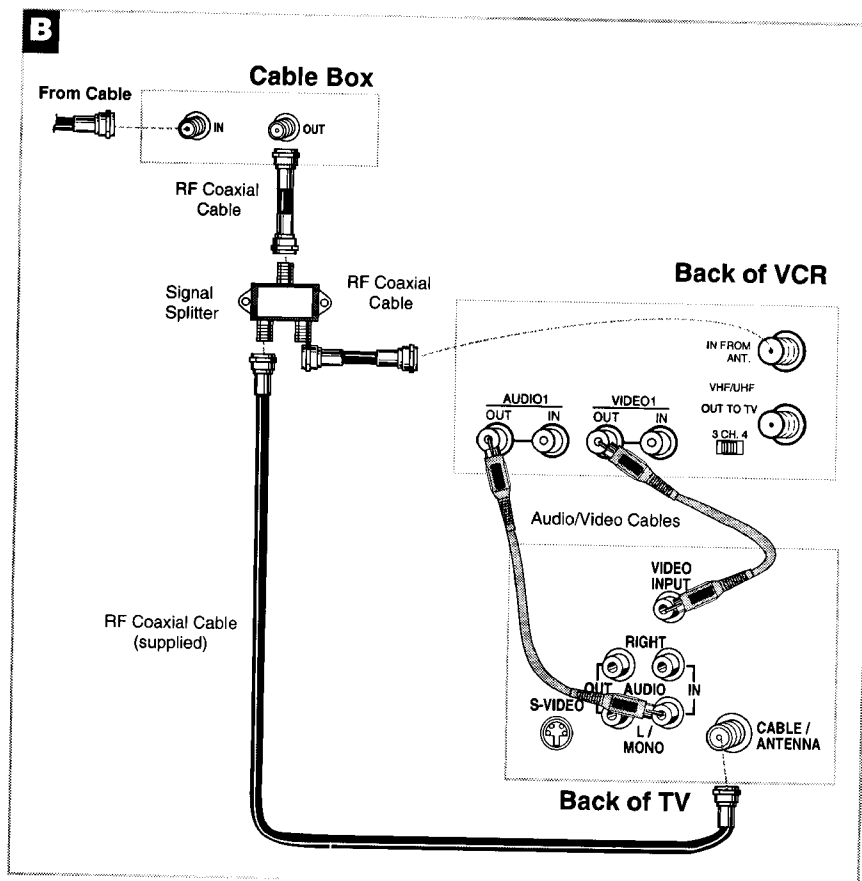
1. Connect as shown.

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



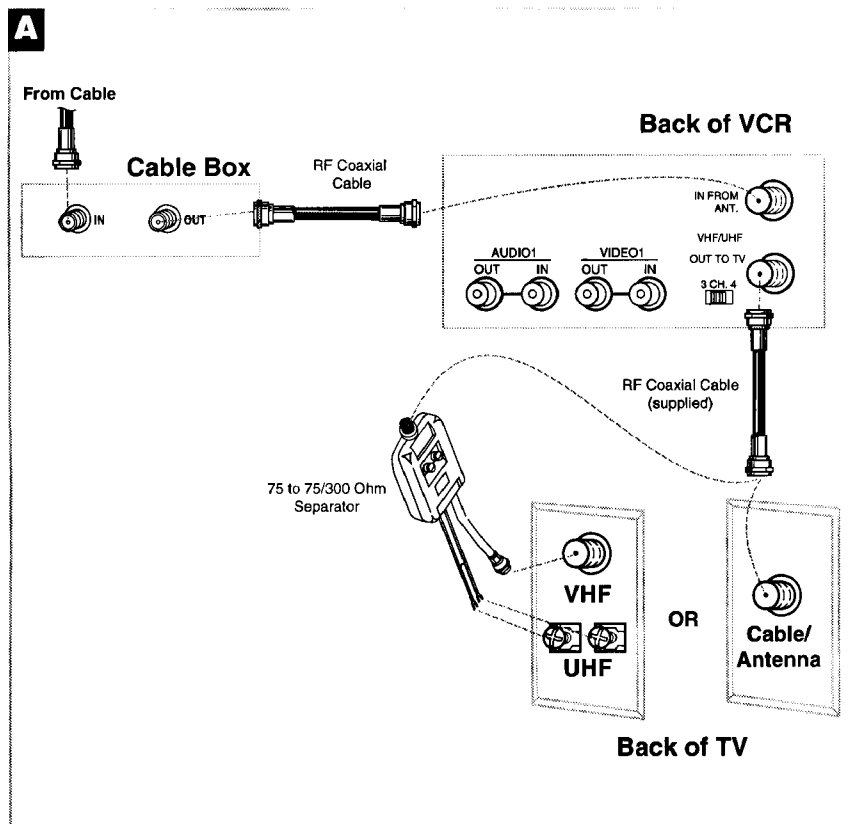
Cable System With Cable Box to Unscramble Pay Channels Only

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

A. Basic hookup.

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

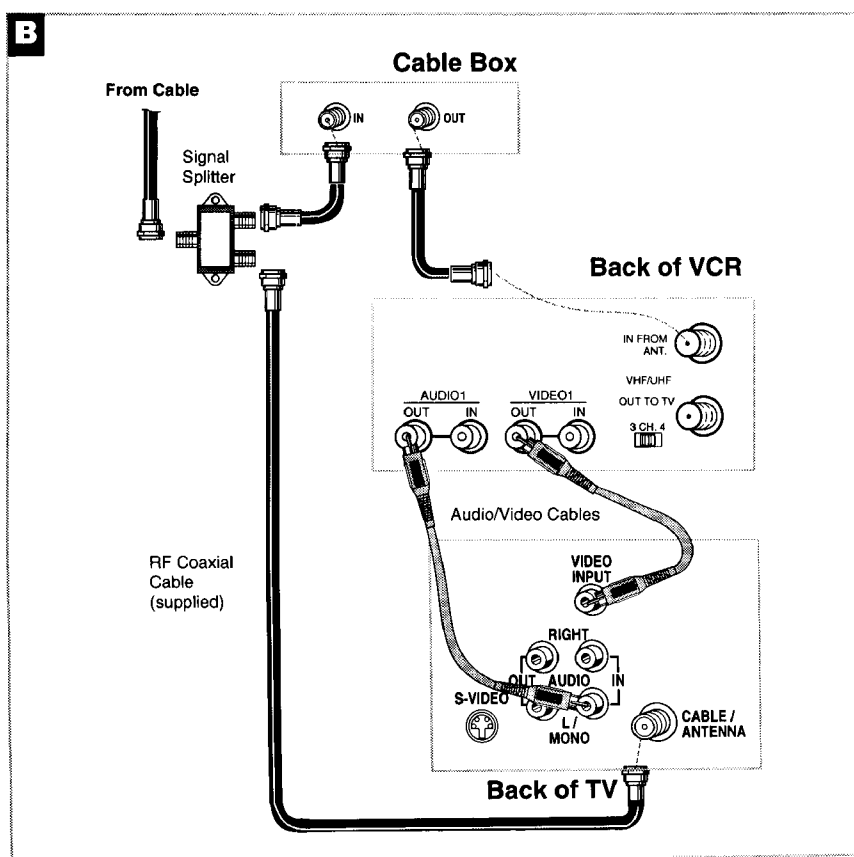
1. Set the 3CH.4 switch on back of VCR to either channel 3 or 4.
Tune the TV to this channel and use the TV•VCR button to watch the VCR.
2. Connect as shown.
This connection may require additional accessories not provided.
3. Plug in power cords of VCR, TV, and cable box.
4. **Go to "Startup" section.**



B. Advanced hookup.

Use this hookup for slightly improved picture quality 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 channels if your TV is 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.

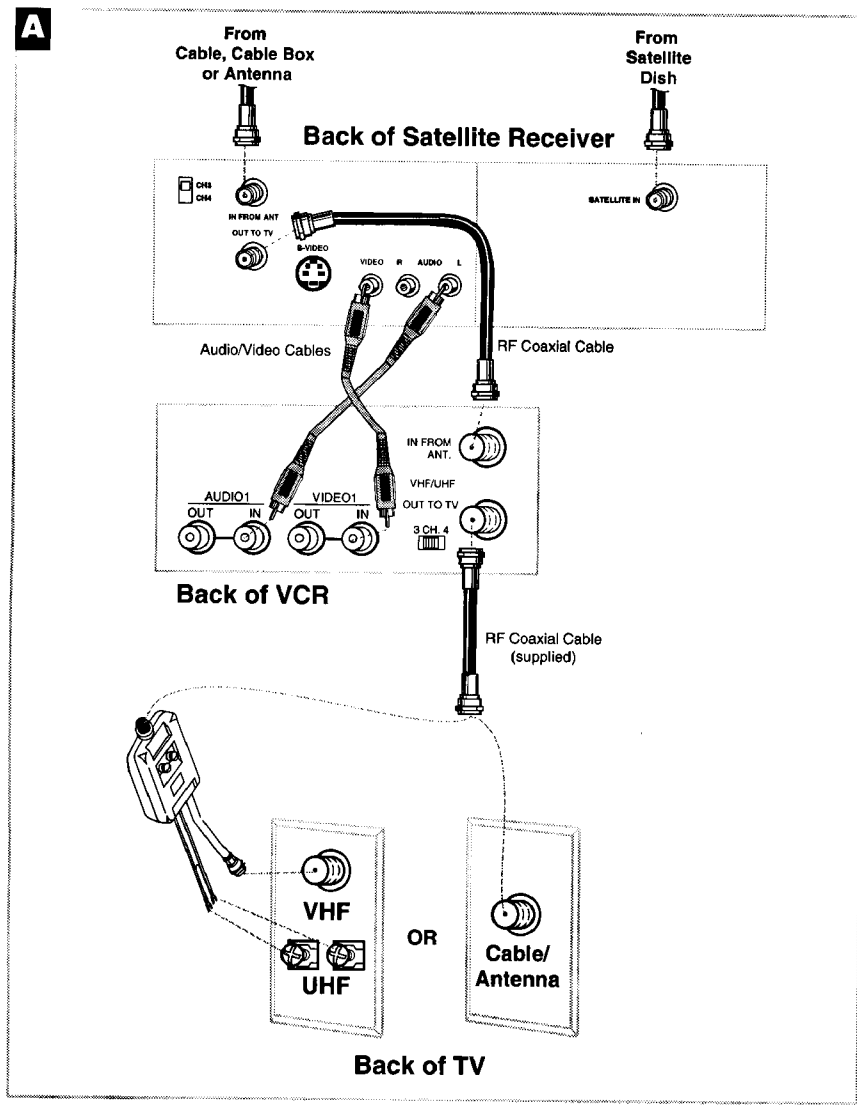


RCA DSS® Satellite Receiver

A. Basic hookup.

Use this hookup if your TV does not have audio/video jacks.

- 1. Set the CH3 CH4 switch on back of satellite receiver to either channel 3 or 4.**
You will tune the VCR to this channel or its line input (L1) to record from the receiver.
To watch the satellite receiver, turn off the VCR.
If you want to watch or record the signal from your antenna, cable, or cable box, make sure the satellite receiver is turned off.
- 2. Set the CH3 CH4 switch on back of VCR to either channel 3 or 4.**
You will tune the TV to this channel and use the TV•VCR button to watch the VCR.
- 3. Connect as shown.**
This connection may require additional accessories not provided.
- 4. Plug in power cords of VCR, TV, and receiver.**
- 5. Go to "Startup" section.**



RCA DSS® Satellite Receiver

B. Advanced hookup with basic receiver.

Use this hookup if your TV has audio/video jacks and your receiver has one set of AUDIO/VIDEO jacks.

- 1. Set the CH3 CH4 switch on back of receiver to either channel 3 or 4.**

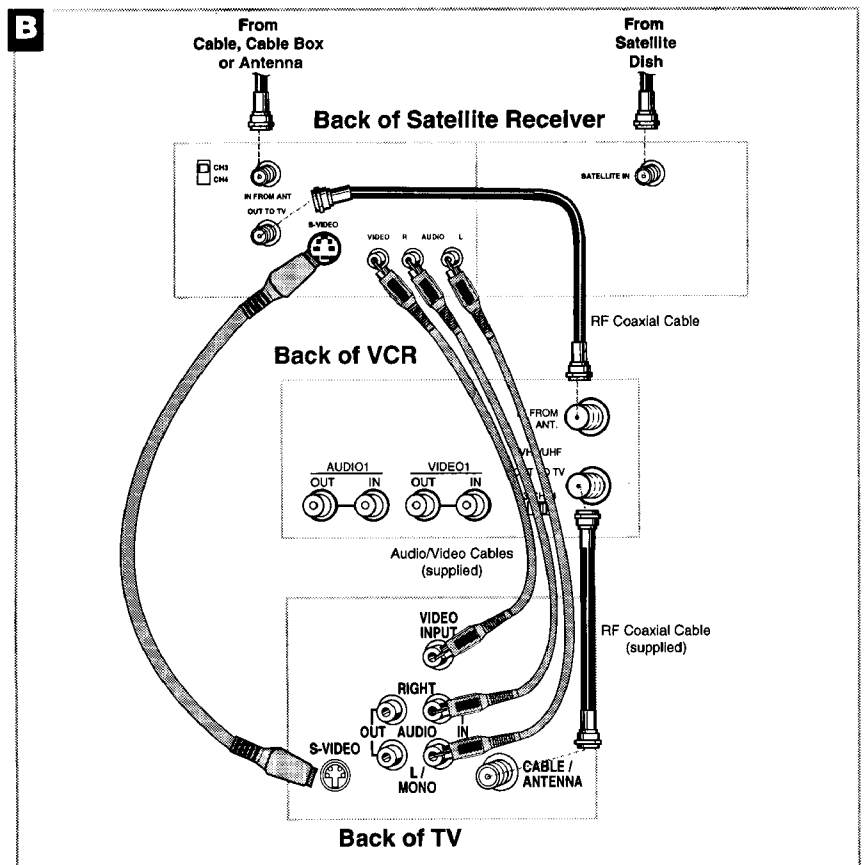
You will tune the VCR to this channel to record from the satellite receiver.

To watch the satellite receiver, tune your TV to its video input channel.

If you want to watch or record the signal from your antenna, cable, or cable box, make sure the satellite receiver is turned off.
- 2. Set the CH3 CH4 switch on back of VCR to either channel 3 or 4.**

You will tune the TV to this channel and use the TV•VCR button to watch the VCR.
- 3. Connect as shown.**

This connection may require additional accessories not provided.
- 4. Plug in power cords of VCR, TV, and receiver.**
- 5. Go to "Startup" section.**



C. Advanced hookup with deluxe receiver.

Use this hookup if your TV has audio/video jacks and your receiver has two sets of AUDIO/VIDEO jacks.

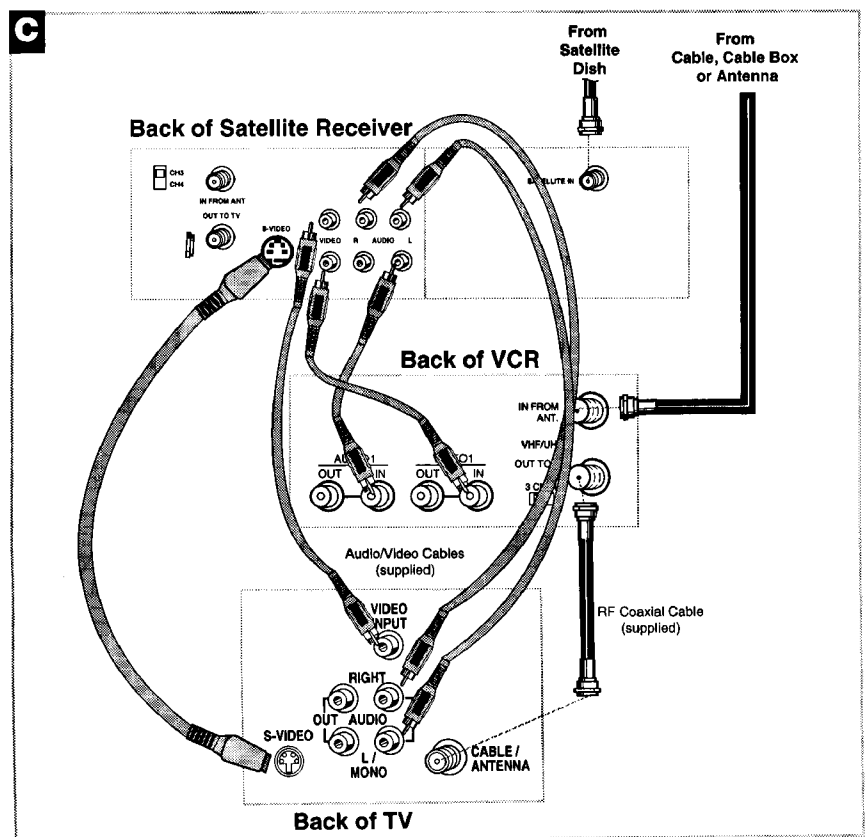
- 1. Set the CH3 CH4 switch on back of VCR to either channel 3 or 4.**

You will tune the TV to this channel and use the TV•VCR button to watch the VCR.

To record from the satellite receiver, you will tune the VCR to its line input (L1).

To watch the satellite receiver, tune your TV to its video input channel.
- 2. Connect as shown.**

This connection may require additional accessories not provided.
- 3. Plug in power cords of VCR, TV, and receiver.**
- 4. Go to "Startup" section.**

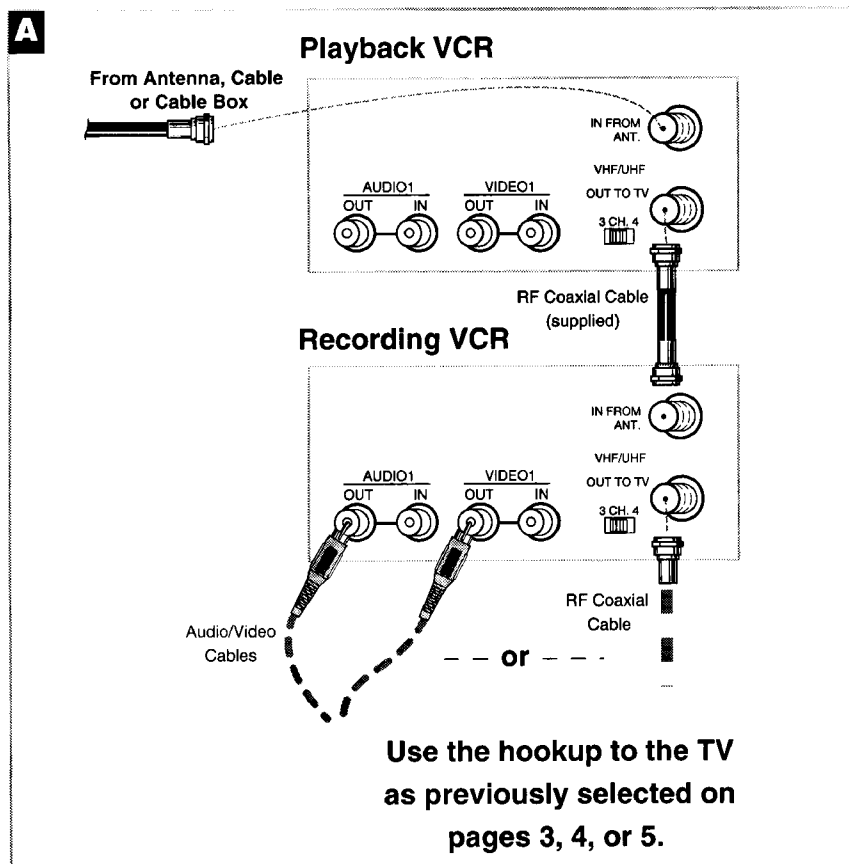


Connecting Two VCRs for Copying Tapes

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.**



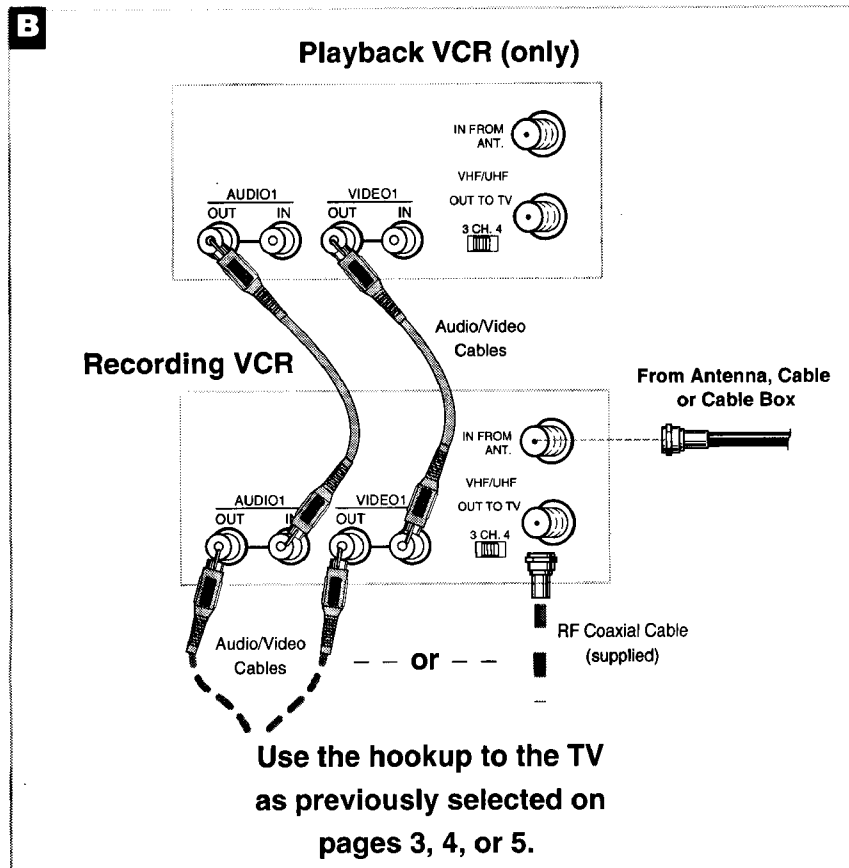
Option B hookup.

Use this hookup for slightly improved copy quality 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-adaptor may be required to hear sound from both channels if your other VCR is 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.

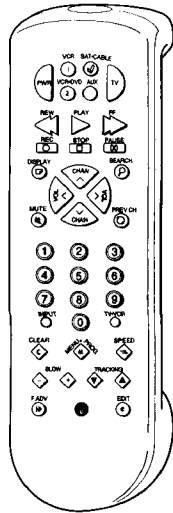
Caution: The unauthorized recording of television programs and other materials may infringe the rights of others.



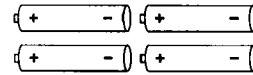
Startup

1. Check accessories with VCR.

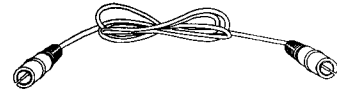
Contact your dealer if any items are missing.



Remote
(Stock No. 231545)

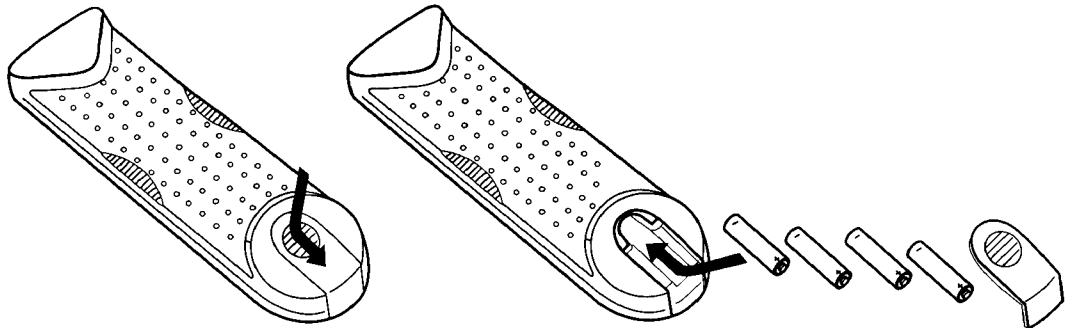


4 "AAA" Batteries



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.)

Startup

4. Turn on the VCR.

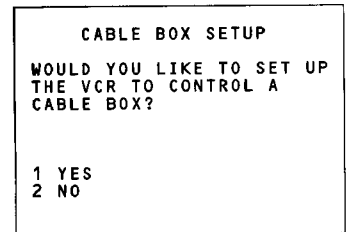
A. Press VCR1 on the remote.

The **SETUP** screen appears the *first time* the VCR is turned on after connecting it. It is a step-by-step procedure to set up the VCR for *Cable Box Setup, Auto Channel Search, and Auto Clock Set* using Coordinated Universal Time information transmitted by some broadcast stations. If you choose to set up the VCR options individually, go to "Set up your VCR" section.

If the **SETUP** screen does not appear:

- Make sure TV is tuned to same channel as channel 3/4 switch, or TV's video line input.
- Make sure VCR indicator is on in the VCR display panel if you use a basic hookup.
- Check the connections.

B. Follow the step-by-step procedures until setup is complete. If setup is successful, skip the next step.



5. Set up your VCR.

The initial **SETUP** is a one-time procedure only. If you ever need to change or reset an individual feature option, follow the instructions in this step.

Cable Box Setup

- A. Press **MENU** on the remote to display the **VCR MAIN MENU**.
- B. Press **4** to display the **CHANNELS** menu.
- C. Press **5** to select **CABLE BOX SETUP**.
- D. Select one of the three choices:

1 ALL CHANNELS

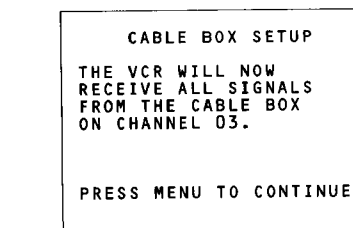
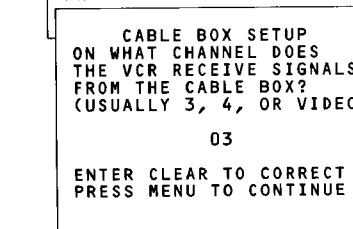
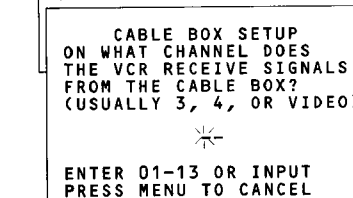
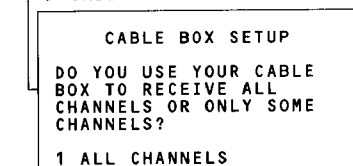
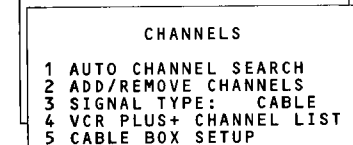
1. Press **1** to select **ALL CHANNELS**.
2. Enter two numbers for the output channel of your cable box or press **INPUT**.
3. Press **MENU** to continue.

2 ONLY SOME CHANNELS

Skip this setup if your cable box is not required for all channels.

3 CANCEL SETUP

Select this item to return to previous screen.



Startup

Auto Clock Set

The AUTO CLOCK SET feature is set to ON at the factory. With this feature on, the VCR automatically updates the clock using the Coordinated Universal Time information transmitted by some broadcast stations. The TIME ZONE and DAYLIGHT SAVINGS TIME menu items must be set for your area. With this feature off, the clock will not be set or adjusted automatically.

- 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 CLOCK SET between ON and OFF.

Set the Time Zone

1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 3 to display the TIME menu.
3. Press 3 to display the SET THE TIME ZONE menu.
4. Select your time zone.
 - If you select AUTOMATIC for your time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds. If the time is not correct, select another time zone or use the SET TIME AND DATE option.

Set Daylight Savings Time

1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 3 to display the TIME menu.
3. Press 4 to display the SET DAYLIGHT SAVINGS menu.
4. Select one of the options.
 - If you select YES, DST IS OBSERVED:

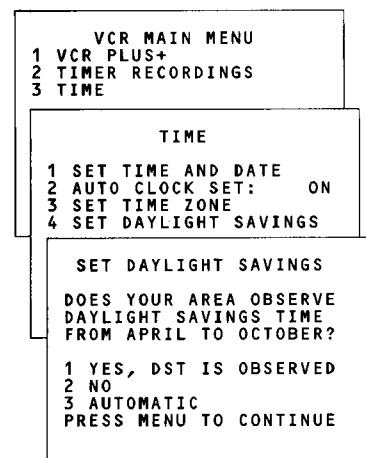
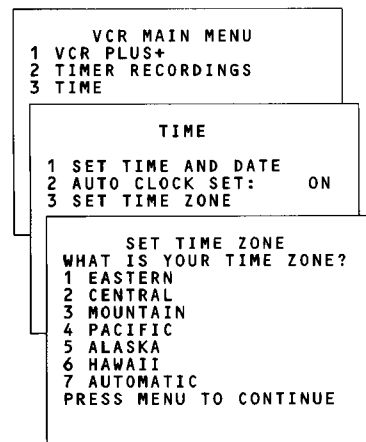
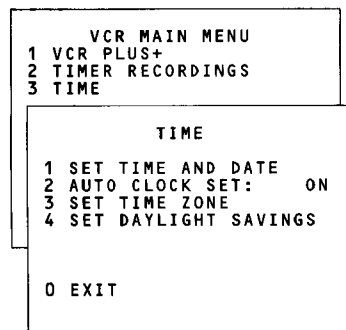
In the Spring, daylight-saving time begins on the first Sunday in April. Because the clock automatically changes from 2:00 AM to 3:00 AM (forward one hour), remember that any part of a scheduled Timer Recording that falls between these two times will not be recorded.

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.
 - If you select AUTOMATIC, the VCR sets the clock using the first Coordinated Universal Time information it finds.

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

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

Check local cable system or TV stations for availability of channels with Extended Data Service (XDS).



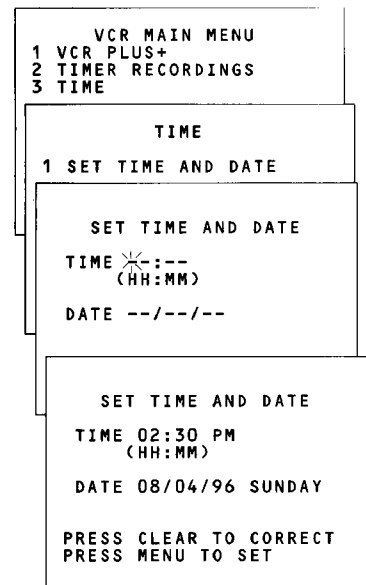
Startup

Set the Clock

If the AUTO CLOCK SET was unsuccessful, set the clock through the menu option. Also, if you choose to set the clock, the AUTO CLOCK SET feature is automatically turned off.

- 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 **DISPLAY** on the remote.



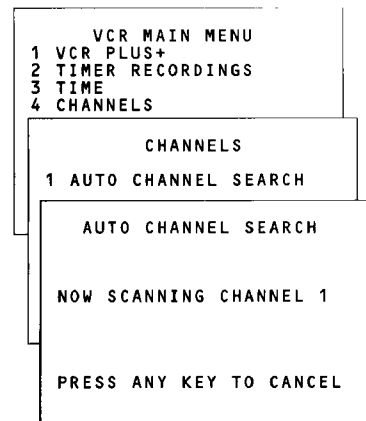
Auto Channel Search

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.
- 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**.

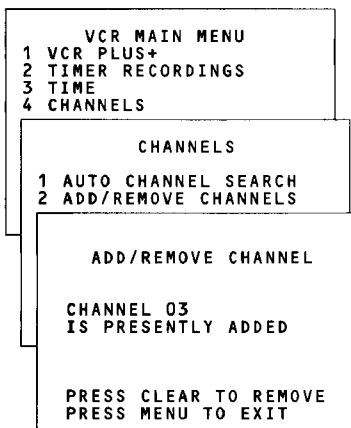
Startup

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.

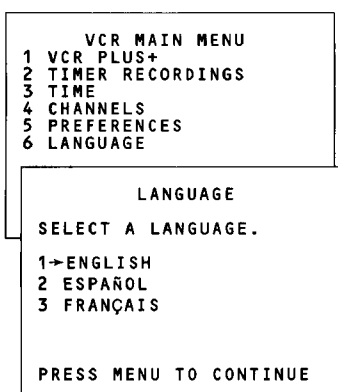
- A. Press MENU on the remote to display the VCR MAIN MENU.
- B. Press 4 to display CHANNELS menu.
- C. Press 2 to display ADD/REMOVE CHANNEL screen.
- D. Follow the on-screen directions.
- E. Add or remove more channels using the CHANNEL up and down buttons.



7. Select the language/Seleccione un idioma/ Choisissez une langue.

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. The arrow indicates which language is selected.

- A. Press MENU on remote to display the VCR MAIN MENU.
- B. Press 6 to display the LANGUAGE or IDIOMA or LANGUE menu. (English: LANGUAGE; Spanish: IDIOMA; French: LANGUE).
 - 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. 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 in the "Recording" section.*

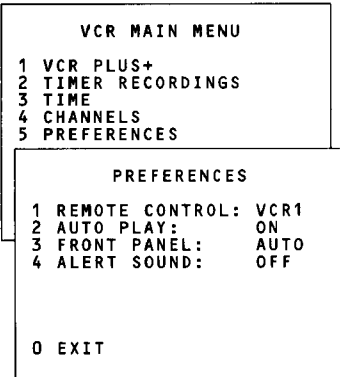
- A. Press VCR1 to set the remote to control the VCR.
- B. Press TV•VCR to see the picture from the VCR. The VCR indicator lights in the display panel.
- C. Press CHANNEL up or down to change channels on the VCR. The channel number followed by the station name (if broadcast) appears for a few seconds 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 VCR1, then TV•VCR to switch back to the picture from the VCR.

Startup

9. Set the display panel brightness.

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

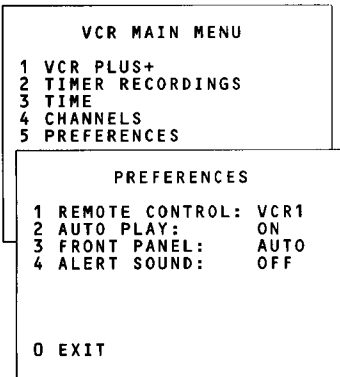
- A. Press MENU on remote to see the VCR MAIN MENU.
- B. Press 5 to display the PREFERENCES menu.
- C. Press 3 to select a FRONT PANEL mode.
 - Select AUTO to keep the display panel bright when VCR is on and dim when it is off.
 - Select BRIGHT to keep the display panel bright.
 - Select DIM to keep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






10. Set the ALERT SOUND.

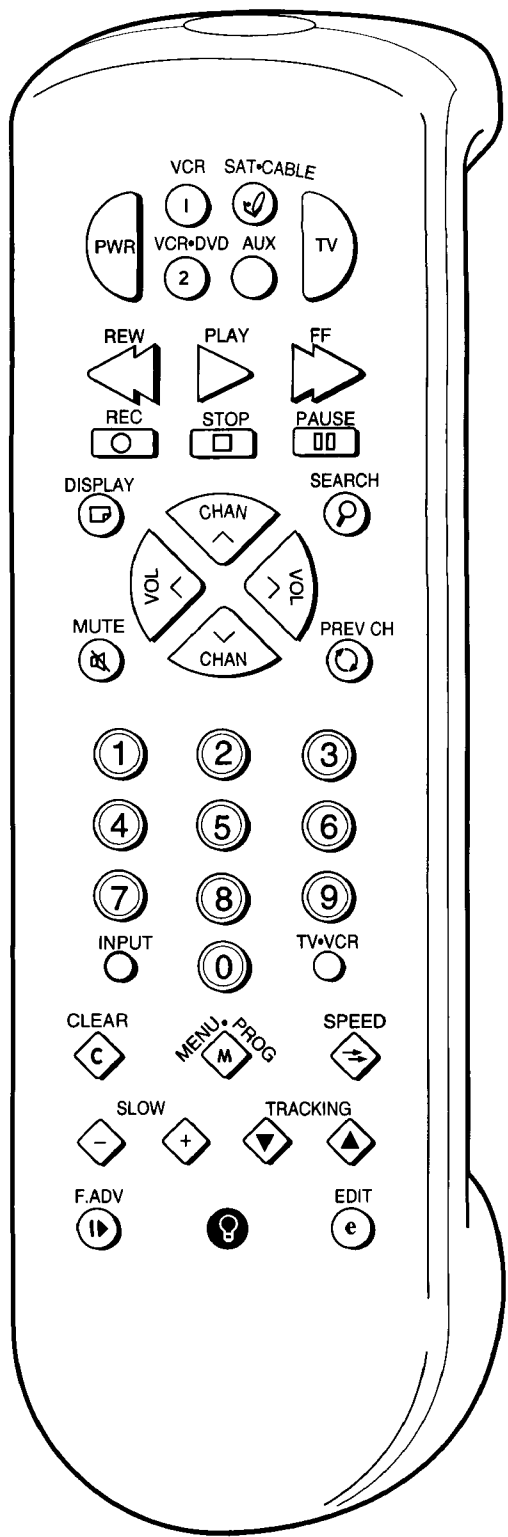
Select this feature if you want a warning to sound each time an invalid entry or invalid operation is made. This feature is set to OFF at the factory. Please note the warning sound is heard only when the VCR is on.

- 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.



Remote Control

This remote has a *Light*  feature that lets you use the remote in a dimly lit or dark room. The *Light* button  glows in the dark. Pressing this lights the remote buttons. The buttons remain lit as long as a button is pressed within approximately eight seconds of another. The light times out if no buttons are pressed which conserves the life of the batteries. If the light times out, simply press the *Light*  button to turn it on again.



Component Buttons

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

AUX (Auxiliary)

Used with PWR (Power) button to turn on a compatible RCA audio component *as described on page 20*.

VCR1

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

SAT+CABLE

Used with PWR (Power) button to turn on a compatible cable box or satellite receiver *as described on page 19*.

VCR2+DVD

Turns on a compatible RCA, ProScan, or GE VCR and sets remote to control VCR when it has been set up.

TV

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

Turns on compatible RCA or ProScan laserdisc player .

Used with a compatible RCA DVD player *as described on page 17*.

Used with PWR (Power) button to turn on another brand of TV *as described on page 18*.

VCR Function Buttons

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

CHAN (Channel) Up or Down

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

Quickly searches a tape in forward motion during playback.

CLEAR

Resets the time counter to 0:00:00.

INPUT

Turns the line input (L) on or off.

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

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

DISPLAY

Shows VCR operating displays on the TV screen.

MENU+PROG

Displays the VCR MAIN MENU on the TV screen.

Displays the time counter.

Used for VCR Plus+ and Timer recordings.

EDIT

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

Removes a menu from the screen.

F. ADV (Frame Advance)

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

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.

FF (Fast Forward)

Fast forwards the tape when the VCR is stopped.

Remote Control

VCR Function Buttons

(continued)

PAUSE

Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

PLAY

Plays a tape.

PWR (Power)

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

Turns off other components if remote is programmed.

PREV CH (Previous Channel)

Switches between two channels.

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

REC (Record)

Starts the VCR recording.

Used for express recording.

REW (Rewind)

Rewinds the tape when the VCR is stopped.

Quickly searches a tape in reverse motion during playback.

SEARCH

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

Advances a tape 60 seconds during playback.

SLOW - / +

Used for slow-motion 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.

DISPLAY

Shows the status displays on the screen.

Removes menus or displays from the screen.

PWR (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.

SLOW +/-

Used with some TV menus to select and adjust features.

VOL (Volume) Up or Down

Raises and lowers sound.

Cable Box or Satellite Receiver Function Buttons

Press the SAT•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.

PWR (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 VCR

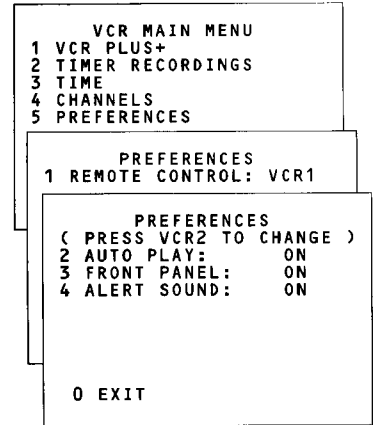
The VCR's remote controls compatible RCA, ProScan, or GE VCRs with the VCR1 and VCR2•DVD buttons. Most compatible VCRs automatically respond to VCR1 without being programmed. If you own two compatible VCRs, test them to see if VCR1 turns on both VCRs. If it does, then you may want to program this VCR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

Program the VCR for Remote Control

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

1. Press MENU•PROG to display the VCR MAIN MENU.
2. Press 5 to display the PREFERENCES menu.
3. Press 1 to activate the REMOTE CONTROL feature.
4. Press VCR1 or VCR2•DVD to change the setting and program this VCR to respond to the VCR1 or VCR2•DVD button — the position you select.

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



Using the VCR2-DVD Button

The VCR2•DVD button on the VCR's remote is preset to control an RCA, ProScan or GE VCR and an RCA or ProScan laserdisc player. To control a DVD component, it must be programmed with the DVD code listed. If you want to change it back to control a VCR/laserdisc player, then you must reprogram the button to the VCR/laserdisc player code.

Program the Remote Control

1. Turn on the component.
2. Point the VCR remote at the component.
3. Hold the VCR2•DVD button and press three number buttons to enter the code for the component.
4. Release the buttons.
5. Press PWR or CHANNEL up or down. If the component turns off or changes channels, setup is complete.

RCA, ProScan or GE Codes		
VCR	Laserdisc Player	DVD
037	037	078

Controlling a TV

The VCR's remote is preprogrammed to control the basic functions of a compatible RCA, ProScan, or GE 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 three number buttons to enter the code for your brand.
4. Release the buttons.
5. Press PWR or 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	Brand*	Code
A-Mark	.102	GE	.000,008,009,011,012,027, .038,068,086,089,091	Multivision	.081	Sharp	.011,020,025,027,037 .052,053,059,060,108
Admiral	.005	Goldstar	.003,004,006,011,019, .027,037,050	NAD	.018,023	Signature	.005,094
Amtron	.064	Hallmark	.011,027	NEC	.011,014,019,027,038,084	Sony	.002
Akai	.002,103	Hitachi	.009,011,027,036,037,040, .047,048,063,080,094,097,098	Panasonic	.012,013,038,086,111	Soundesign	.011,027,033
Anam	.104,105	Infinity	.013	Penney	.000,008,011,019,027,040, .068,077,086,088	Sylvania	.006,007,010,011,013,016, .027,033,035,043,049,066,087,089
Anam National	.038,106	JBL	.013	Philco	.006,007,010,011,013016,019, .027,033,035,037,038,043,087,089	Symphonic	.064,076
AOC	.011,019,027,088,107	Jensen	.011,027	Philips	.002,006,007,010,011,013,016, .033,035,037,038,043,066,073	Tatung	.038
Bell&Howell	.005	JVC	.012,024,036,037,040,048,051,074	Pioneer	.011,027,045,062,093	Technics	.012
Candle	.011,027,033	Kawasho	.002,011,027	Portland	.011,019,027,037	Techwood	.011,027
Citizen	.011,027,033,064	Kenwood	.006,011,014,027	ProScan	.000	Teknika	.011,019,027,033,036 .037,040,066
Colortyme	.011,027,084	Kloss Novabeam	.035,043	Proton	.011,027,037,072	Telecaption	.090
Concerto	.011,027	KTV	.078	Quasar	.012,038,092	TMK	.011,027
Contec/Cony	.036,037,040,042,064	Loewe	.013	Radio Shack	.000,021,025,036,037, .059,064,078	Toshiba	.018,021,023,040,071, .077,085,090
Craig	.064	Luxman	.011,027	RCA	.000,006,011,019,027,034, .038,044,046,088,100,101,109	Universal	.008,009
Curtis Mathes	.000,011,015,027,037	LXI	.000,013,018,021,023,054	Realistic	.021	Victor	.051
CXC	.064	Magnavox	.006,007,010,011,013,016, .027,033,035,043,049,066,087,089	Sampo	.011,027	Vidtech	.019,027
Daewoo	.011,019,027,012	Marantz	.011,013,027,069	Samsung	.006,011,014,015,019 .027,036,037,077,110	Wards	.000,005,006,007,008 .009,010,011,013,019,025,027,028, .035,043,059,066,076,082,089
Daytron	.011,027	Memorex	.005	Sanyo	.017,021,039,056,057,058	Yamaha	.006,014,019,027
Dimensia	.000	MGA	.006,011,014,019,022, .027,041,056,061,068	Scott	.028,037,064	Zenith	.001,099
Electrohome	.006,011,014,027,038, .061,068	Mitsubishi	.006,011,014,019,022, .027,041,055,056,061,068	Sears	.000,006,011,014,017,018,021, .023,027,039,040,041,051,071,083,095		
Emerson	.011,026,027,028,029,030, .031,032,037,042,053,064,065,067, .075,076,078,079,094,095,096	MTC	.011,019,027				
Envision	.011,027						
Fisher	.017,021,039,041						
Funai	.064						

*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 PWR.
3. Use the "TV Function Buttons" described in "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.

Controlling a Cable Box or Satellite Receiver

The SAT•CABLE button on the VCR's remote is preprogrammed to control a compatible RCA cable box or satellite receiver. If your cable box or satellite receiver is another manufacturer's brand and has its own remote, you will probably be able to program the VCR's remote to control the 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 SAT•CABLE button and press three number buttons to enter the code for your brand.
4. Release the buttons.
5. Press PWR 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	.022,046,053,054	Magnavox	.007,008,019,021,026, .028,029,032,033,040,041	Signature	.046
Anvision	.007,008	NSC	.009	Sprucer	.027
Cablestar	.007,008	Oak	.001,016,038	Starcom	.046
Diamond	.056	Oak Sigma	.016	Stargate 2000	.058
Eagle	.007,008	Panasonic	.003,027,039,061	Sylvania	.011,059
Eastern Int.	.002	Philips	.007,008,019,021,026,028, .029,032,033,040,041	Teknika	.006
General Instruments	.046	Pioneer	.018,020,044	Texscan	.010,011,059
GI 400	.004,005,015,023,024, .025,030,036	RCA	.000,027	Tocom	.017,021,049,050,055
Hamlin	.003,012,013,034,048	Randtek	.007,008	Unika	.031,032,041
Hitachi	.037,043,046	Regal	.003,012,013	Universal	.051,052,060
Jerrold	.004,005,015,023,024, .025,030,036, 045,046,047,062,065	Regency	.002,033	Viewstar	.007,008,019,021,026,028, .029,032,033,040,041
Macom	.037,043	Samsung	.044	Warner Amex	.044
		Sci. Atlanta	.003,022,035,063,064	Zenith	.014,042,057,061

Satellite Receiver Codes					
Brand*	Code	Brand*	Code	Brand*	Code
Chaparral	.080,081	RCA	.000	STS3	.087
Cheyenne	.081	Realistic	.084	STS4	.088
Drake	.082,083	Sierra I,0II,0III	.081	Toshiba	.089
GE	.000	STS1	.085	Uniden	.090
General Instruments	.092,093,094	STS2	.086	Video Cipher II	.091

* 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 SAT•CABLE.
2. If the component does not turn on in step 1, press SAT•CABLE, then PWR.
3. Use the "Cable Box or Satellite Receiver Function Buttons" described in the "Remote Control" section.

Controlling an Auxiliary RCA Component

The remote that came packed with your VCR is also capable of controlling one compatible RCA auxiliary component, such as an AM/FM radio, CD player, tape players, phonograph, satellite receiver, or DVD. 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 remote at the component.
3. Hold the AUX button and press three number buttons to enter the code for your component.
4. Release the buttons.
5. Press PWR on the remote. If the component turns off, setup is complete.

Type of Auxiliary Equipment and Code								
RCA*	AM/FM	AUX	Phono	Cassette Tape 1	CD	DSS	Cassette Tape 2	DVD
	003	004	005	006	007	008	009	010

*The remote may not be able to control every RCA model of auxiliary type listed.

Operate the Auxiliary Component

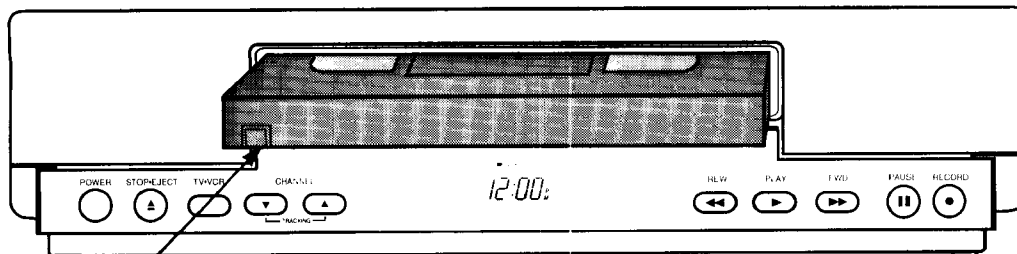
After you have set up your remote to control your component, test the buttons to see which ones operate the component.

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 PWR.
3. Refer to 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. The VCR indicator lights. The tape automatically begins playback if the safety tab on the cassette has been removed and the AUTO PLAY feature is turned on.



Safety Tab

3. Press PLAY on the remote or the 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.

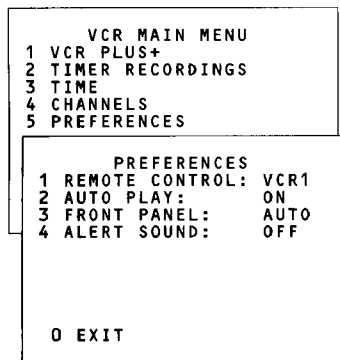
7. Press STOP•EJECT on the VCR to eject the tape once it is completely rewound.

Using the Playback Features

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.



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

Rewind Search

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

Slow Motion

You can view a tape in slow motion during play or play pause. Sound is turned off during slow-motion playback. Slow motion works best for tapes recorded in the SP or SLP speed.

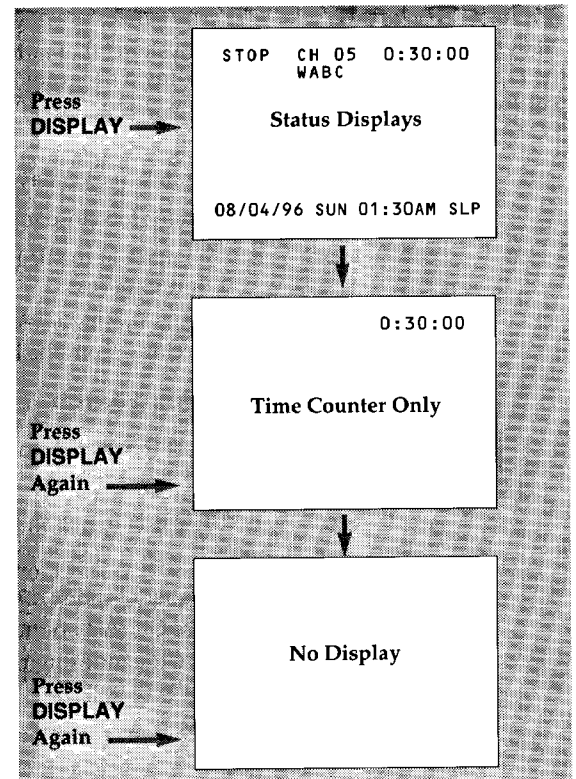
1. Press SLOW + or – during playback to begin slow-motion.
PLAY flashes in the VCR display panel.
2. Press SLOW + to increase the speed or SLOW – to decrease the speed.
2. Use TRACKING up or down to remove any streaks from the picture.
3. Press PLAY to return to playback.
The VCR automatically switches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

Using the Playback Features

DISPLAY Button

The DISPLAY button shows the status of the VCR channel number, station name (if broadcast), 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 DISPLAY.
If you do not press DISPLAY again, this display times out.
2. Press DISPLAY again to display only the time counter on the TV screen.
3. Press DISPLAY again to return to TV viewing.
Turning off the VCR automatically returns the displays to normal.

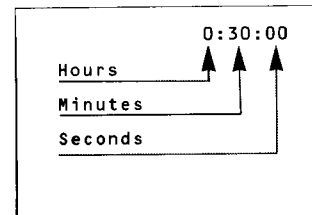


Time Counter

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 end 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 DISPLAY 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 DISPLAY 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
      ^
      v
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 **DISPLAY** *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
    
```

Commercial Scan (SEARCH Button)

This is useful for scanning commercials or short program segments.

Press **SEARCH** during playback to advance the tape approximately one minute or press **SEARCH** twice for two minutes.

Using the Playback Features

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 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 to return to playback.
The VCR automatically switches from stop-action playback to stop after a few minutes.

Frame Advance (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 during playback to stop the action.
2. Press F. ADV each time you want to view a frame of the scene.
3. Press PAUSE or PLAY to resume normal playback.

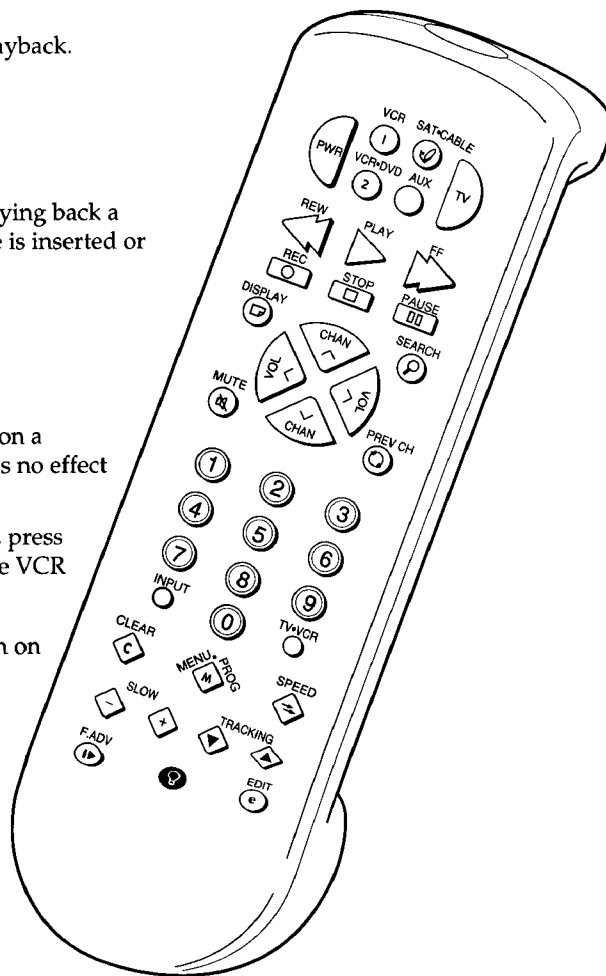
Automatic Tracking

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.



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. 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 to be recorded.
The channel number appears on the TV screen.
5. Press **RECORD** on the VCR or **REC** on the remote to begin recording.
The **RECORD** indicator lights in the VCR's display panel while the VCR is recording.

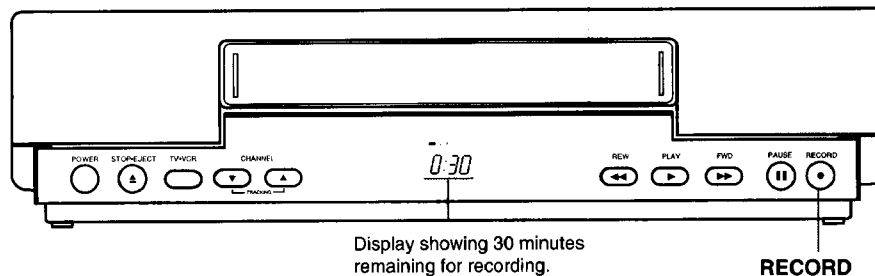
Watch a TV Channel While VCR is Recording a Different Channel

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

1. Follow steps 1 through 5 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. Select the channel you want to watch with the TV's channel buttons.
4. Press **STOP•EJECT** on the VCR or **STOP** on the remote when the recording is finished.

Express Recording

Express 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 to activate recording.
6. Press RECORD or REC repeatedly until the amount of recording time for the program is displayed on the TV screen.

REC RECORD CH 06 RECORD LENGTH 0:00	Press RECORD	Recording Time
PRESS REC TO SET LENGTH	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

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 and the power indicator flashes, and TIMER indicators light 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 an Express 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 for Antenna or Unscrambled Cable System (Not Requiring a Cable Box)

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.

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.

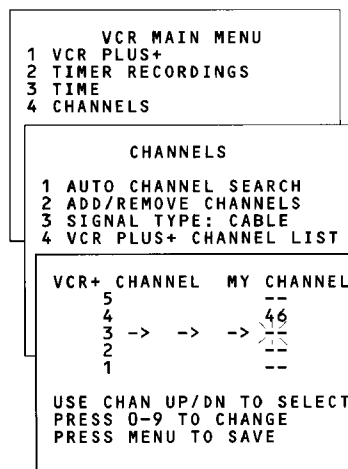
2. Press MENU on the remote to display the VCR MAIN MENU on the TV screen.
3. Press 4 to display CHANNELS menu.
4. Press 4 to display VCR PLUS+ CHANNEL LIST menu.
5. Using your worksheet, press two numbers to enter each channel number you receive on a **different** channel than the assigned VCR Plus+ 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		Canadian List	
35 American Movie Classics	58 The Movie Channel	67 Allarcom Pay Television/Superchannel	99 First Choice Four
39 Arts & Entertainment	48 Music Television	44 Arts & Entertainment	90 House of Commons
57 Black Entertainment	49 The Nashville Network	72 Cable News Network-Headline News	91 La Chaîne Française
54 Bravo	38 Nickelodeon	61 Cable News Network	51 The Learning Channel
42 Cable News Network	64 Nostalgia Television	70 Canadian Home Shopping Network	65 MeteoMedia/The Weather Network
45 Cinemax	99 Quality Value Cable	56 Canal Famille	48 MuchMusic Network
98 Cinemax 2	41 Showtime	69 Cathay International Television Inc	55 MusiquePlus
37 The Discovery Channel	97 Showtime 2	68 Chinavision Canada Corp	52 Nashville Network
53 The Disney Channel	59 Sports Channel	60 Country Music Television	73 Newsworld/CBC
63 Entertainment Television	52 Turner Network Television	63 Family Channel	53 Le Réseau des Sports
34 ESPN Sports Network	44 USA Network	62 First Choice	43 The Sports Network
47 The Family Channel	62 Video Hits 1	96 First Choice Two	64 Super Ecran
33 Home Box Office	93 Viewer's Choice 1	97 First Choice Three	37 Super Ecran B
95 Home Box Office 2	94 Viewer's Choice 2		98 Super Ecran C
96 Home Box Office 3	55 WGN Chicago		66 Telatino Network
51 The Learning Channel	43 WTBS Atlanta		46 TV5 Montreal
46 Lifetime	60 WWOR New York		92 Viewer's Choice 1

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

VCR Plus+™ Channel Worksheet

Use this worksheet to create a list from which you can set up your VCR Plus+ channel list.

Broadcast or Cable TV Station Name (Such as ABC, NBC, CBS, etc.)	VCR Plus+ Channel Number* (See Standardized VCR Plus+ Channel Chart)	Channel Number You Receive This Station On**

* Check your local listing for VCR Plus+ channel numbers assigned to network stations.
** Check your local or cable listing for the channel numbers to enter in this column.

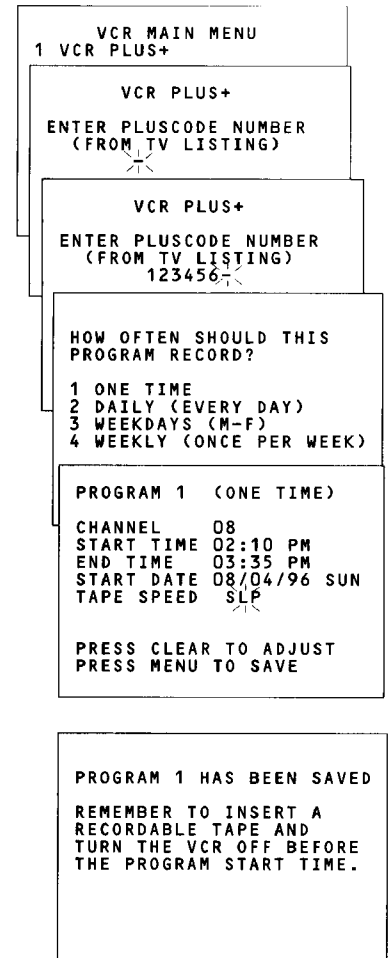
Recording While You're Away (VCR Plus+ Recording)

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 VCR1 (or VCR2•DVD).
- 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.
If using a cable box or satellite receiver, leave it turned on and tuned to the channel you want to record.



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 VCR1 (or VCR2•DVD).

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.

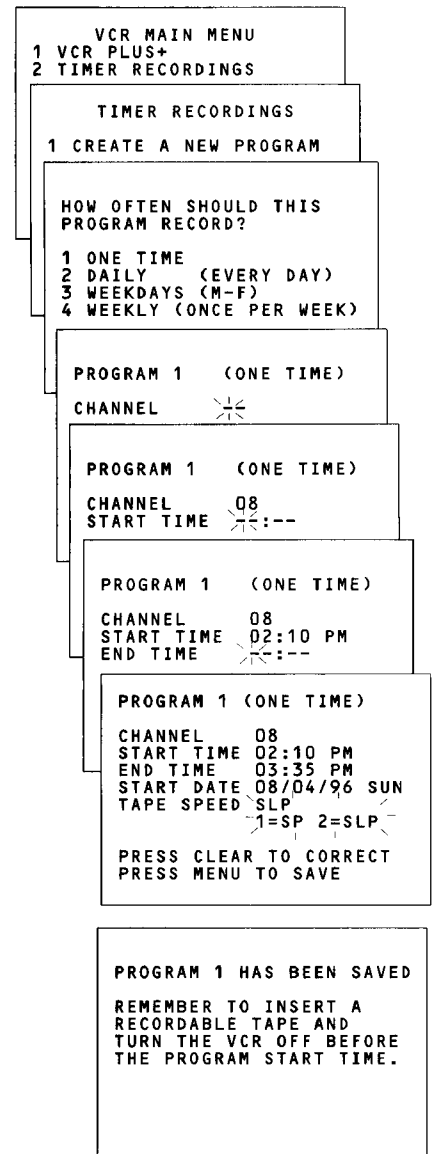
Press CLEAR on the remote to correct an entry.
6. Press SPEED, or 1(SP), 2(SLP) on the remote to select the recording speed.
7. Press MENU to enter your program.

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.

The TIMER indicator appears in the VCR display panel.

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



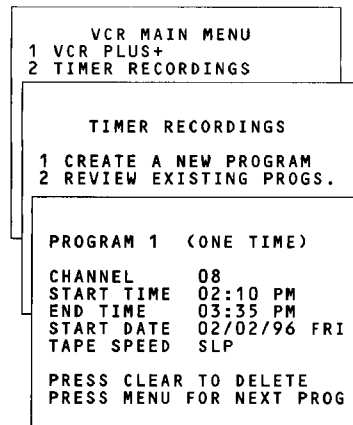
Stopping a Timer Recording in Progress

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

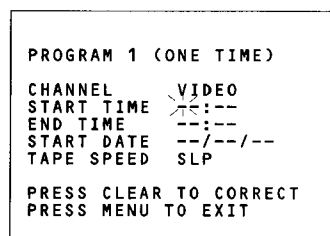
1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 2 to display the TIMER RECORDINGS menu.
3. Press 2 to display the REVIEW EXISTING PROGS menu. Each entered program is displayed for a few seconds in sequence.
4. Press MENU for next program or CLEAR to erase the program.



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.



Using the Recording Features

Recording Pause

To prevent recording short passages of unwanted material, use 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 PWR (Power) 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 PWR or VCR1 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 8.)

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

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 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 8), 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 8), 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. To prevent recording on-screen displays from the playback VCR, press DISPLAY button three times.
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.

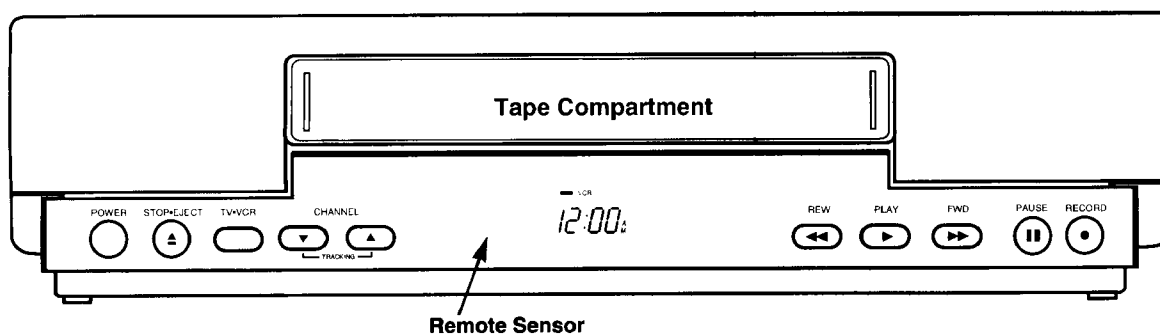
Using Dual Remote with AutoEdit™

Use this VCR as the recording VCR and set it to respond to VCR2•DVD on the remote as described on page 13. Use your other compatible VCR as the playback VCR, which should respond to VCR1.

1. Follow steps 1 – 4 in the "Operating Instructions" above.
2. Press VCR2•DVD on remote to control recording VCR. Press REC, then PAUSE, to put recording VCR in pause mode.
3. Press VCR1 on remote to control playback VCR.
4. Use FWD, 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•DVD, STOP, when you are finished.

Location of Controls

Front Panel



Remote Sensor

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.

PAUSE

Pauses the tape for stop-action viewing during playback.

Pauses the tape during recording to prevent recording unwanted material.

PLAY

Plays a tape.

POWER

Turns the VCR on or off.

RECORD

Starts the VCR recording.

Used for express 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

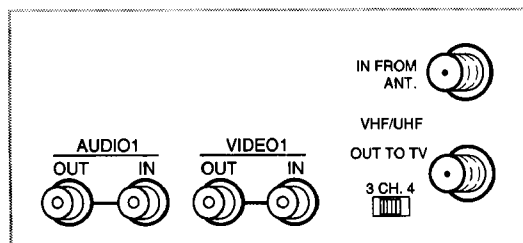
Stops the VCR's normal functions such as record, playback, rewind, fast-forward, or pause.

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

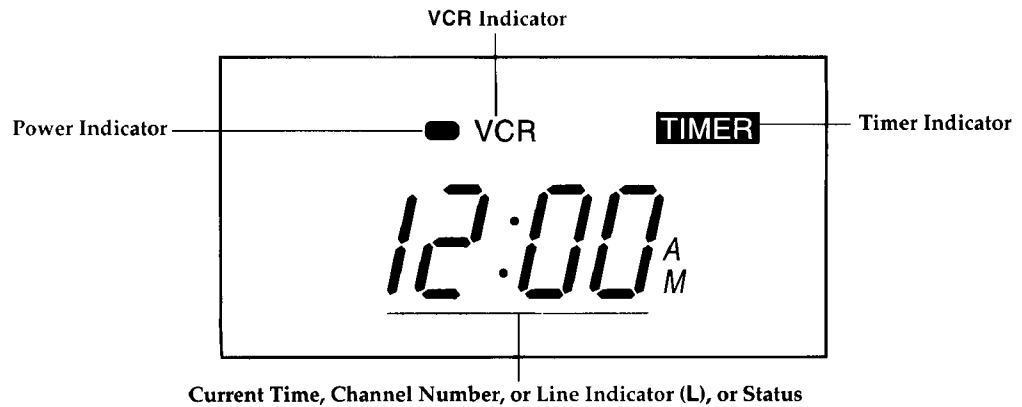
Receives signals from another component like a VCR or camcorder when it is connected to these jacks. Use INPUT on the remote to select.

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



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 Playback.
REC Recording.
REW Rewinding.
FF Fast Forwarding.
STOP 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.

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 RCA VCR Servicer.

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. <i>See page 13.</i> • Aim remote at VCR with no objects between them. • Change batteries. • Check the ProTect Plus™ feature.
Remote no longer controls an RCA TV	<ul style="list-style-type: none"> • Press TV to set remote to control a compatible TV. <i>See page 18.</i> • Reprogram remote for RCA TV. <i>See page 18.</i>
Remote no longer controls a compatible TV, cable box, satellite receiver, laserdisc player, DVD player, or auxiliary component	<ul style="list-style-type: none"> • Press component button to set remote to control the corresponding component. • Reprogram remote to control the component. <i>See pages 17-20.</i> • Aim remote at TV with no objects between them. • Reprogram remote after batteries have been changed. • Change batteries.
Remote locks up	<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 to reset it. Reinstall the batteries and try remote again.
VCR only responds to VCR2•DVD button on remote	<ul style="list-style-type: none"> • Check setting of Remote Control: VCR1/VCR2 feature. <i>See page 17.</i>
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 on the remote or the VCR during recording or playback. • Check the ProTect Plus™ feature.

Trouble Checks

Trouble	Here's what to try:
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.
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 pages 11-12.</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.
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 pages 11-12.</i> • Time zone or daylight saving time information incorrect. <i>See pages 11-12.</i> • Check with the broadcast station or cable company if Auto Clock Set feature is turned on and time is still inaccurate.
Time did not adjust for daylight savings.	<ul style="list-style-type: none"> • Make sure Daylight Savings Time feature is turned on.
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 12.</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 12.</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 22.</i>
Tape plays back in slow motion	<ul style="list-style-type: none"> • Press SLOW +/- 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. <i>Details are on page 23.</i>

Specifications

Format:	VHS
Record/Playback System:	Video: 4-Head Audio: Mono 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:	18 watts
Dimensions:	3.5 inches high (89 mm) 15 inches wide (380 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.

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 customer, whichever comes first.

What we will do:

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

How you get service:

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

What your warranty does not cover:

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

Product Registration:

- Please complete and mail the *Product Registration Card* packed with your VCR. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

How state law relates to this warranty:

- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your VCR outside the United States:

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

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If you would like a copy of this manual in French, please follow the
instructions below:

Si un livret d'instructions en français n'est pas inclus avec votre appareil, vous
pouvez en obtenir un (indiquer le numéro de modèle, votre nom, et votre
adresse) en vous adressant à:

Thomson Consumer Electronics
Attention: Canadian Operations
P.O. Box 0944
Indianapolis, IN 46206-0944

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