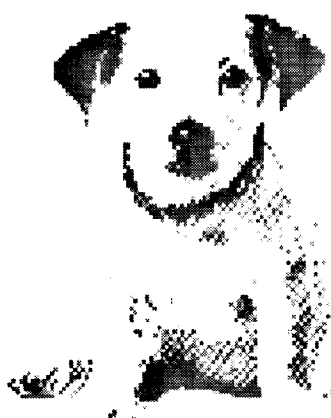


M53035A8

**REAL**



**VCR OWNER'S MANUAL**  
**MODEL VR502**



**IMPORTANT INFORMATION**

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**HOOKING UP THE VCR**

**SETTING UP THE VCR**

**USING THE REMOTE CONTROL**

**PLAYING A TAPE**

**RECORDING A PROGRAM**

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## Important Information




**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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



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

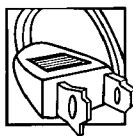


This symbol indicates important instructions accompanying the product.



## WARNING

To prevent fire or shock hazard, do not expose this VCR to rain or moisture.



**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

**MISE EN GARDE:** 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.

## Cautions

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 VCR.

Operate VCR only on 120 volts, 60 Hz AC power (normal house power). For safety reasons, make sure any equipment or accessories connected to this product bears the UL listing mark, or if purchased and used in Canada, the CSA certification mark. If in doubt, contact qualified service personnel.

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 VCR.

Model No. **VR502** \_\_\_\_\_

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 monitor/receiver (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 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 questions 1 and 2 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. Set the **3 CH. 4** switch on back of VCR to either channel 3 or 4.

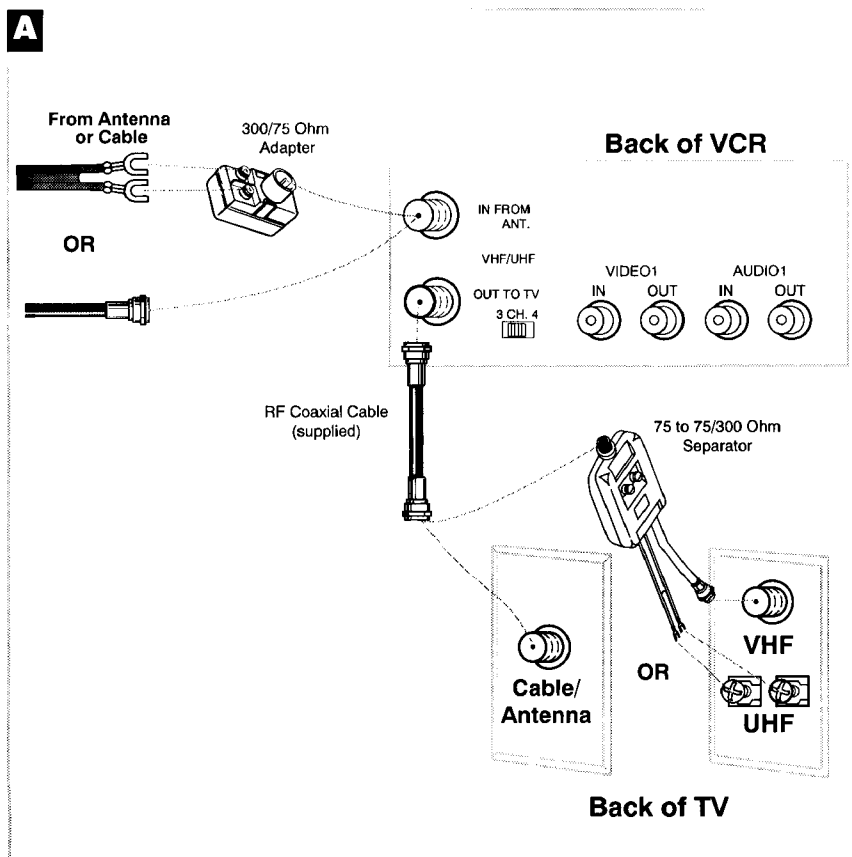
You will tune the TV to this channel and use the TV/VCR button to watch the VCR.

2. Connect as shown.

This connection may require additional accessories not provided.

3. Plug in power cords of VCR and TV.

4. Turn to page 7 for "Setting Up the VCR."



### B. Advanced hookup.

Use this hookup for slightly improved picture quality and more convenient operation – use of TV/VCR button not required.

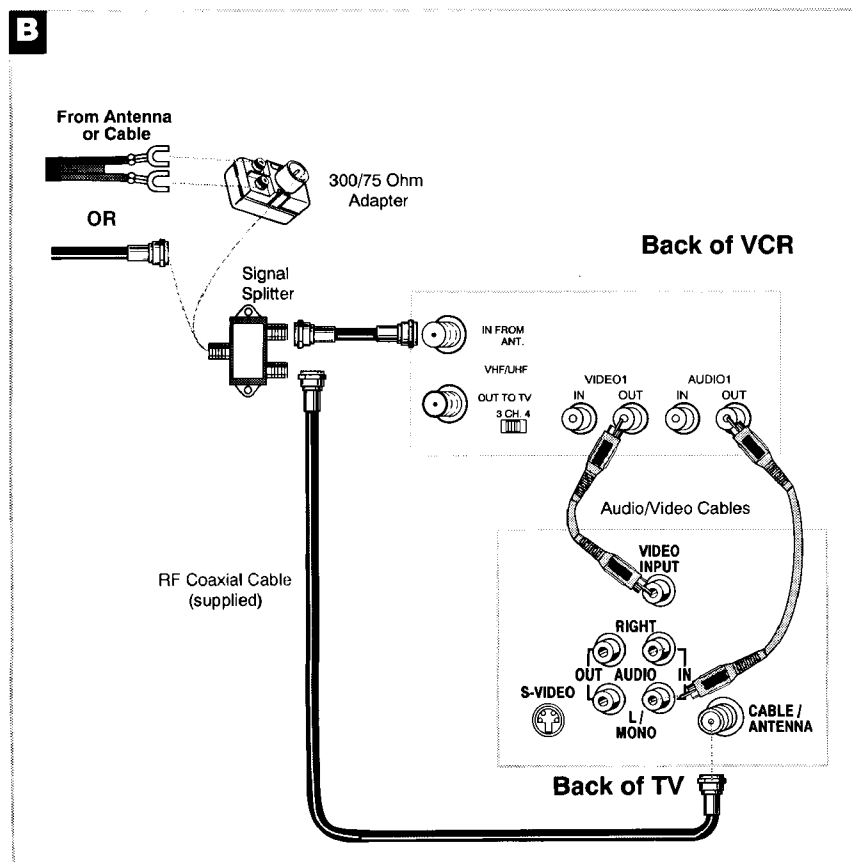
1. Connect as shown.

This connection requires additional accessories not provided.

2. Plug in power cords of VCR and TV.

3. Turn to page 7 for "Setting Up the VCR."

You will tune the TV to its video input to watch the VCR.

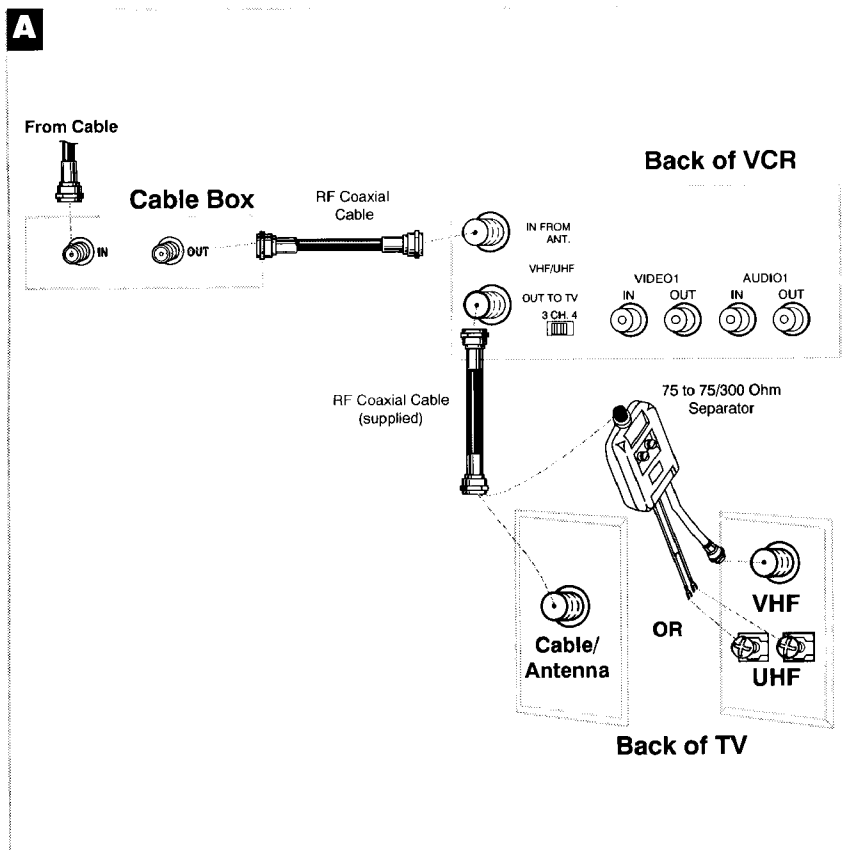


## Cable System With Cable Box to Unscramble All Channels

### A. Basic hookup.

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

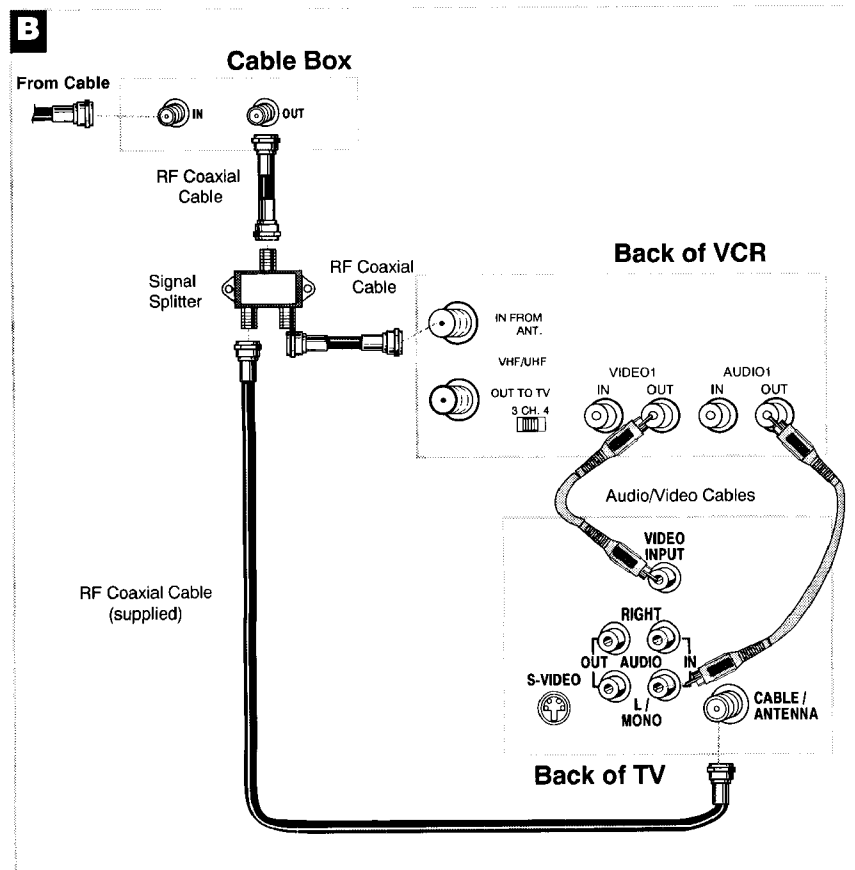
1. Set the **3 CH. 4** switch on back of VCR to either channel 3 or 4.  
You will tune the TV to this channel and use the TV/VCR button to watch the VCR.
2. Connect as shown.  
This connection may require additional accessories not provided.
3. Plug in power cords of VCR, TV, and cable box.
4. Turn to page 7 for "Setting Up the VCR."



### B. Advanced hookup.

Use this hookup for slightly improved picture quality and more convenient operation – use of TV/VCR button not required.

1. Connect as shown.  
This connection requires additional accessories not provided.
2. Plug in power cords of VCR, TV, and cable box.
3. Turn to page 7 for "Setting Up the VCR."  
You will tune the TV to its video input to watch the VCR.



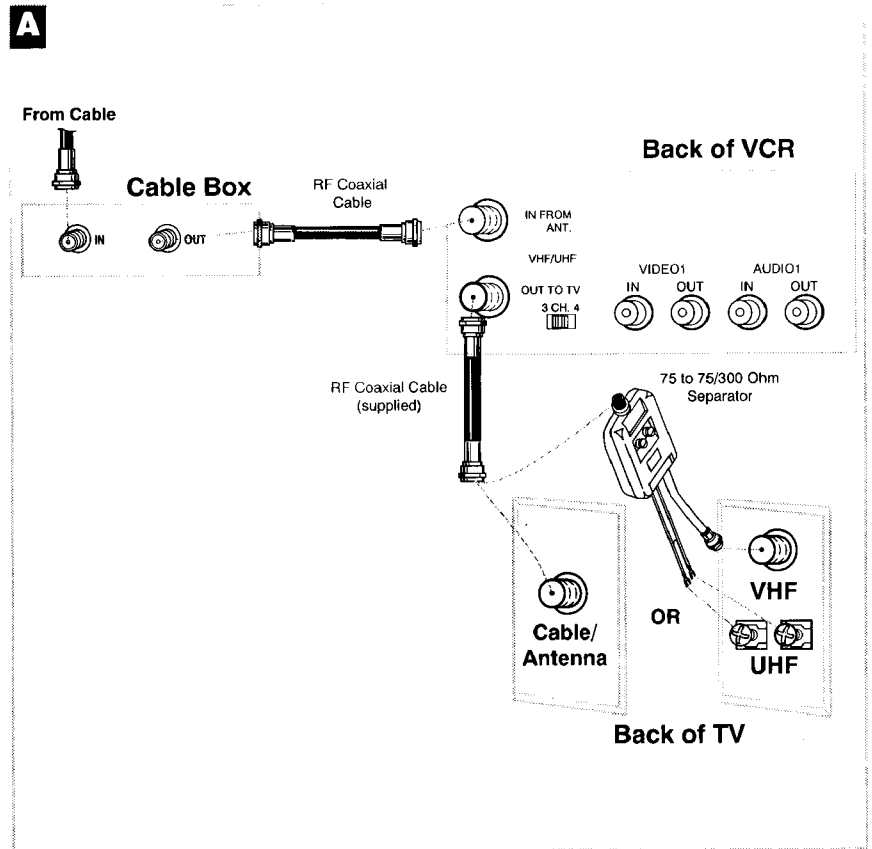
## Cable System With Cable Box to Unscramble Pay Channels

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

### A. Basic hookup.

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

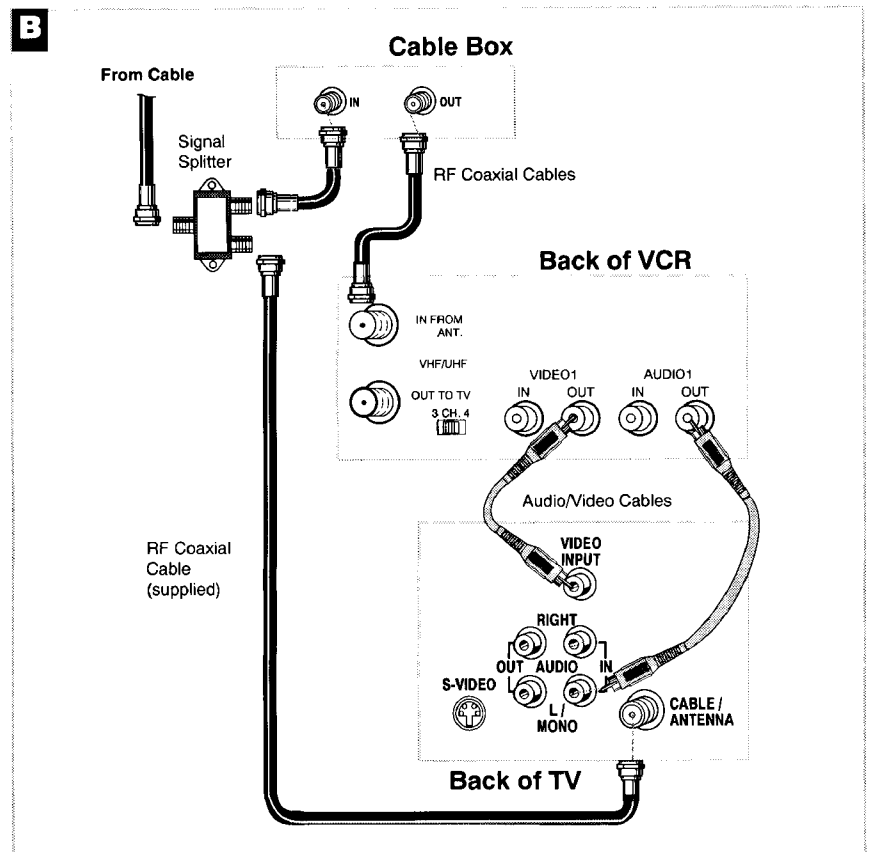
1. Set the **3 CH. 4** switch on back of VCR to either channel 3 or 4.  
You will tune the TV to this channel and use the TV/VCR button to watch the VCR.
2. Connect as shown.  
This connection may require additional accessories not provided.
3. Plug in power cords of VCR, TV, and cable box.
4. Turn to page 7 for "Setting Up the VCR".



### B. Advanced hookup.

Use this hookup for slightly improved picture quality and more convenient operation – use of TV/VCR button not required.

1. Connect as shown.  
This connection requires additional accessories not provided.
2. Plug in power cords of VCR, TV, and cable box.
3. Turn to page 7 for "Setting Up the VCR."  
You will 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 **3 CH.4** switch on the playback VCR to either channel 3 or 4.

You will tune the recording VCR to this channel to receive the signal from the playback VCR.

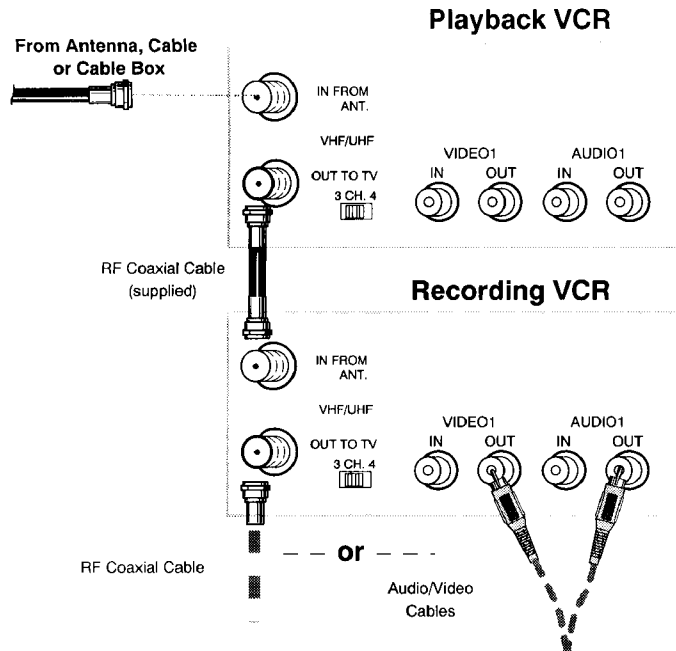
3. Connect as shown.

This connection may require additional accessories not provided.

4. Plug in power cords of VCRs and TV.

5. Turn to page 7 for "Setting Up the VCR."

**A**



Use the hookup to the TV as previously selected on pages 3, 4, or 5.

### Option B Hookup.

Use this hookup for slightly improved copy quality and more convenient operation – use of TV/VCR button not required.

1. Select a hookup from pages 2 through 5 and then modify with this connection.

2. Connect as shown.

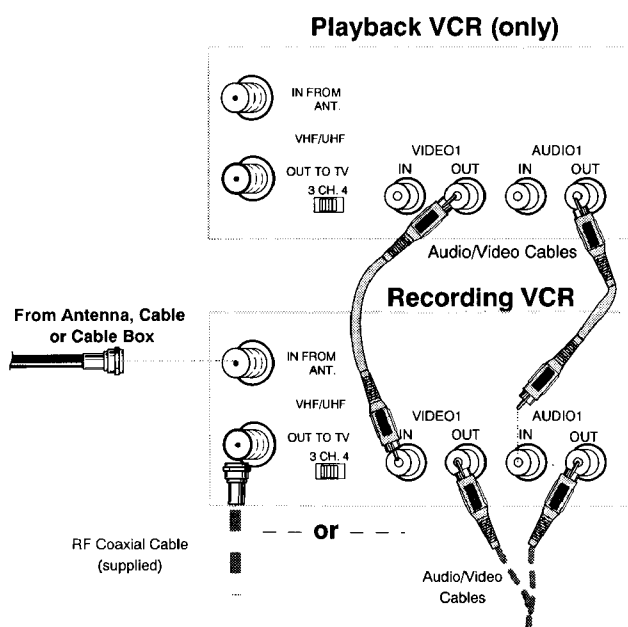
This connection requires additional accessories not provided.

3. Plug in power cords of VCRs and TV.

4. Turn to page 7 for "Setting Up the VCR."

You will select the line input on the recording VCR to receive the signal from the playback VCR.

**B**



Use the hookup to the TV as previously selected on pages 3, 4, or 5.

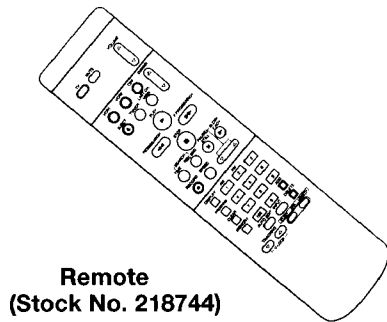
**Caution:** The unauthorized recording of television programs and other materials may infringe the rights of others.



## Startup

### 1. Check accessories with VCR.

Contact your dealer if any items are missing.



**Remote**  
(Stock No. 218744)

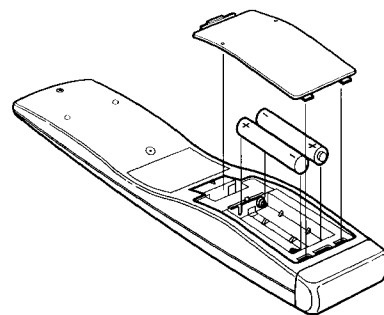
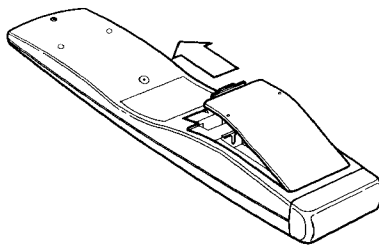


**2 "AAA" Batteries**



**RF Coaxial Cable**  
(Stock No. 194691)

### 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 3 CH. 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's owner's manual for details.)

### 4. Turn on the VCR.

- A. Press VCR1 (VCR2) on the remote or POWER on the VCR.  
The POWER and VCR indicators light. The TIMER indicator flashes on the VCR front panel until the clock is set.  
*See page 9 to set the clock.*

## Startup

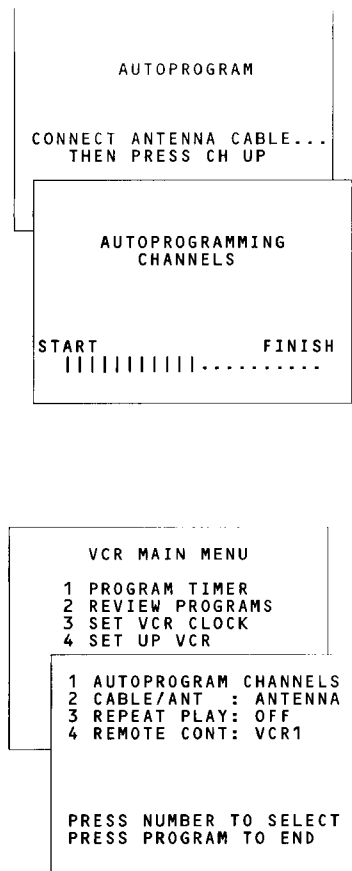
### 5. Place channels in the VCR's memory (AutoProgram).

The first time you turn on the VCR or after a power interruption, the VCR will display a message on the TV screen prompting you to AUTOPROGRAM the VCR. If the message does not appear, go to step A below. If the message appears, follow the directions on the screen.

AutoProgramming takes about two minutes. When it is finished, it will tune to the lowest channel found. Pressing CHANNEL up or down will select only the active channels.

If you ever need to manually AUTOPROGRAM the VCR because you change cable or antenna signals:

- A. Press PROGRAM on remote to display VCR MAIN MENU on the TV screen. If this menu does not appear:
  - Make sure TV is tuned to same channel as 3 CH. 4 switch on the VCR or the TV's video input (refer to TV's manual).
  - If you used a basic hookup, check VCR indicator on front of VCR — it should be on. Press TV/VCR to turn it on.
  - Check the connections.
- B. Press 4 to display SET UP VCR menu.
- C. Press 1 to begin AUTOPROGRAM CHANNELS.  
The VCR automatically selects CABLE (cable TV) or ANTENNA. If you need to change the setting manually, press 2.



### 6. Add or erase channels from the VCR's memory.

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

#### To add a channel:

- A. Select the channel you want to add by pressing two number buttons, press 0 then 8 for channel 8.
- B. Press ADD on the remote.  
The ADD button is slightly recessed to prevent it from being pressed accidentally.

#### To delete a channel:

- A. Select the channel you want to delete with CHANNEL up or down or two number buttons.
- B. Press DELETE.  
The DELETE button is slightly recessed to prevent it from being pressed accidentally.

An ADD or DEL display appears briefly on the TV screen to the right of the channel number when you add or delete a channel.

You can still select a channel that has been deleted by pressing the number buttons.

## Startup

### 7. Use TV/VCR button.

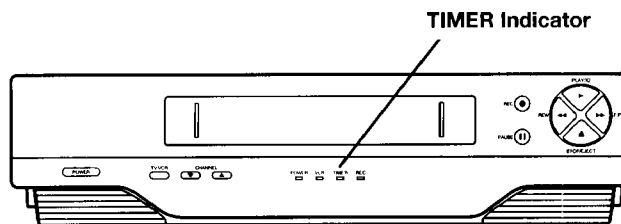
Skip this step if you used one of the advanced hookups.

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 allows you to record a program on the VCR while watching another channel on the TV. *Details are on page 18.*

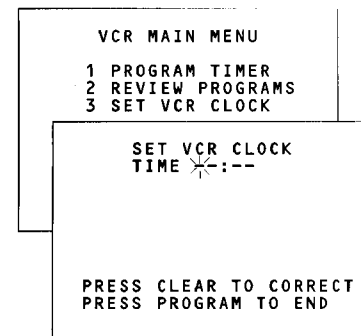
- A. Press TV/VCR to see the picture from the VCR.  
The VCR indicator lights on the VCR front panel.
- B. Press CHANNEL up or down to change channels on the VCR.  
The channel number changes on the TV screen.
- C. Press TV/VCR to see the TV channels.  
The VCR indicator does not light.
- D. Change channels using the TV's remote.
- E. Return the TV to the VCR viewing channel — CH3 or CH4.
- F. Press TV/VCR to switch back to the picture from the VCR.

### 8. Set the time and date.

The TIMER indicator on the VCR front panel flashes when the clock is not set.

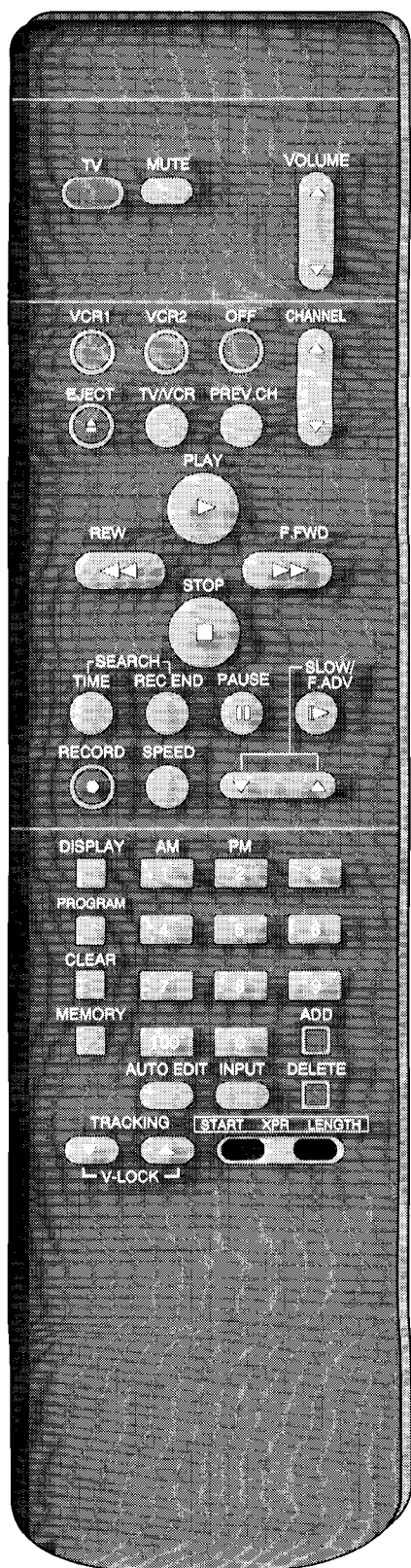


- A. Press PROGRAM on remote to see the menu on the TV screen.
- B. Press 3 to select SET VCR CLOCK.
- C. Enter the time and date with the number buttons on the remote.
  - Press 0 before single-digit numbers.  
Example: press 0, then 5, then 0, then 7 for a time of 5:07.
  - Press CLEAR on the remote to change incorrect entries.
- D. Press PROGRAM twice to start the clock.



## Buttons

When using the remote control, always aim it directly at the front of the VCR.



### Component Buttons

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

#### VCR1

Turns on a compatible RCA VCR and sets remote to control the VCR.

#### VCR2

Turns on a compatible RCA VCR and sets remote to control the VCR when it has been setup. *See page 12.*

#### TV

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

### VCR Function Buttons

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

#### CHANNEL Up or Down

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

#### EJECT

Ejects a tape when the VCR is stopped or playing back a tape.

#### TV/VCR

Switches the picture signal so that it either comes from the VCR or the TV channel. *See page 9.*

#### PREV.CH (Previous Channel)

Switches between two channels.

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

#### PLAY

Plays a tape.

#### REW (Rewind)

Rewinds the tape when the VCR is stopped.

Searches the picture in reverse motion during playback.

#### F.FWD (Fast Forward)

Fast forwards the tape when the VCR is stopped.

Searches the picture in forward motion during playback.

#### STOP

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

#### TIME SEARCH

Allows you to locate a program or specific point on the tape using an amount of time.

#### REC END SEARCH

Allows you to locate and search for blank portions of the tape. *See page 17.*

#### PAUSE

Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

#### SLOW/F.ADV and SLOW ▲ and ▼

Used for slow-motion playback.

Lets you view one frame with each press of the button when tape is in stop-action pause.

#### RECORD

Starts VCR recording.

#### SPEED (Tape Speed)

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

## Buttons

### VCR Function Buttons

(continued)

#### DISPLAY

Shows VCR operating displays on the TV screen.

Displays the time counter.

#### Numbers (0 through 9 & 100)

Select a channel up to 99 by pressing two numbers.

Select a cable channel over 99 by pressing 100 and then two numbers, or press and hold 1 until 1 - - appears on the screen, then press the other two numbers.

#### PROGRAM

Displays the VCR MAIN MENU on the TV screen.

Removes a menu from the screen.

#### CLEAR

Sets time counter to 0:00:00.

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

#### MEMORY

Turns on the memory-stop feature.  
*See page 15.*

#### AUTO EDIT

Signals two properly connected VCRs to begin copying a tape.  
*See page 21.*

#### INPUT (Line)

Selects the signal from

- VCR (channel number), or
- component connected to the AUDIO and VIDEO IN jacks on the back of the VCR.

#### ADD

Used to add channels to memory.  
*See page 8.*

#### DELETE

Used to delete channels from memory.  
*See page 8.*

#### TRACKING/V-LOCK ▲/▼

Lets you manually reduce the streaks that may appear on the picture during play, slow, or pause.

Reduces picture "jitter" during stop-action playback.

#### START XPR LENGTH

Used for express recording.  
*See page 20.*

### TV Function Buttons

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

#### MUTE

Turns the TV sound on or off.

#### VOLUME ▲/▼

Raises and lowers sound.

#### OFF

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

#### CHANNEL ▲/▼

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

#### PREV.CH (Previous Channel)

Switches between two channels.

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

#### DISPLAY

Shows the status displays on the screen.

Removes menus or displays from the screen.

#### Numbers (0 through 9 & 100)

Select a channel up to 99 by pressing two numbers.

Select a cable channel over 99 by pressing 100 and then two numbers, or press and hold 1 until 1 - - appears on the screen, then press the other two numbers..

#### CLEAR

Removes menus or status displays from the screen.

## Controlling a VCR

This remote controls two compatible RCA VCRs with the VCR1 and VCR2 buttons. Most RCA VCRs automatically respond to VCR1 without being programmed. If you own two RCA VCRs, test them to see if VCR1 turns on both VCRs. If it does, then program your new VCR to respond to VCR2 with the REMOTE CONT feature.

### Program the VCR for remote control

Set the REMOTE CONT feature to VCR1 or VCR2. The remote then controls the VCR with either the VCR1 or VCR2 button, whichever you select in the menu.

- A. Press PROGRAM.
- B. Press 4 to select SET UP VCR
- C. Press 4 to select VCR1 or VCR2.
- D. Press VCR1 or VCR2, whichever you selected on the menu, to control the VCR.

#### VCR MAIN MENU

- 1 PROGRAM TIMER
- 2 REVIEW PROGRAMS
- 3 SET VCR CLOCK
- 4 SET UP VCR

- 1 AUTOPROGRAM CHANNELS
- 2 CABLE/ANT : ANTENNA
- 3 REPEAT PLAY: OFF
- 4 REMOTE CONT: VCR2

PRESS NUMBER TO SELECT  
PRESS PROGRAM TO END

## Controlling a TV

The VCR's remote is preprogrammed to control the basic functions of a compatible RCA, ProScan, or GE TV.

### Operate the TV

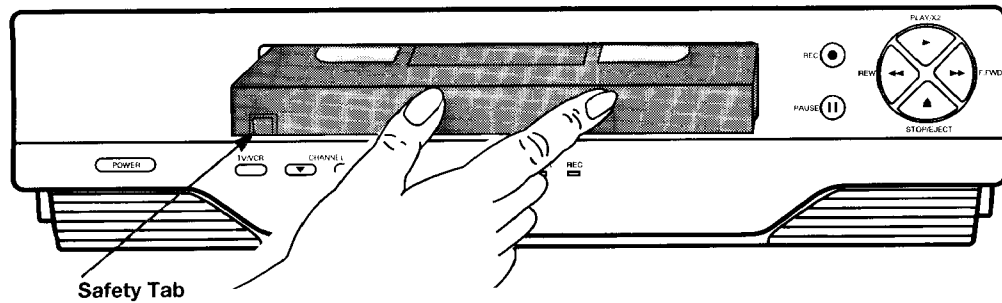
- A. Point the remote at the TV and press TV.
- B. Use the "TV buttons" as *described on page 11*.

**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.

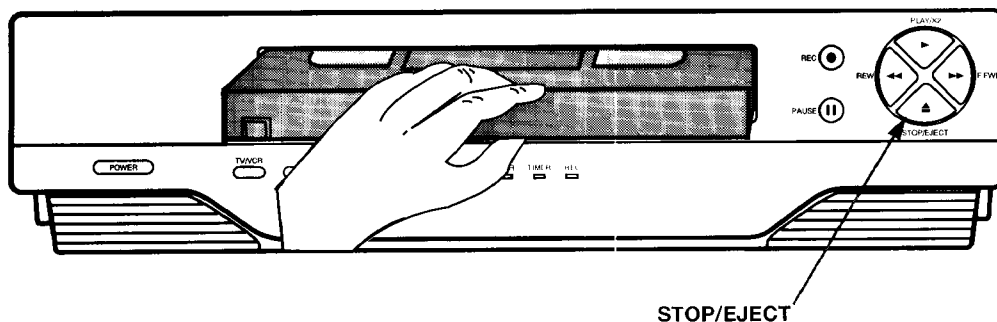
## Operating Instructions

### To 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 POWER and VCR indicators light. Tape automatically begins playback if the safety tab on the cassette has been removed.



3. Press PLAY/X2 on the VCR or PLAY on the remote, if necessary.
4. If necessary, press TRACKING up or down on the remote to remove any streaks from the picture. *Details are on page 16*
5. Press STOP/EJECT on the VCR or STOP on the remote when you are finished.
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 STOP/EJECT on the VCR or EJECT on the remote to eject the tape once it is completely rewound.



## 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 or SLP speed.

1. Press PAUSE during playback to stop the action.  
The VCR will automatically switch from pause to stop after a few minutes to prevent tape wear.
2. Press TRACKING/V-LOCK ▲ or ▼ to reduce horizontal lines or any jittering of the picture.
3. Press PAUSE or PLAY to return to playback.

### Slow Motion

You can view the picture in slow motion during play. Sound is turned off during slow-motion playback. Slow motion works best in the SP or SLP speed.

1. Press SLOW/F.ADV to begin slow motion.
  2. Press SLOW/F.ADV ▲ or ▼ to increase or decrease slow-motion speed.
  3. Use TRACKING/V-LOCK to remove any streaks from the picture.
  4. Press SLOW/F.ADV or PLAY to return to playback.
- The VCR will automatically switch from slow-motion playback to stop after a few minutes.

### Picture Search

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

#### Fast Forward Search

1. Press F.FWD to search forward at a faster-than-normal speed.
2. Press F.FWD or PLAY to return to playback.

#### Rewind Search

Use the REW button to search in reverse on the tape by following the same steps in "Fast Forward Search".

### Frame Advance (SLOW/F.ADV Button)

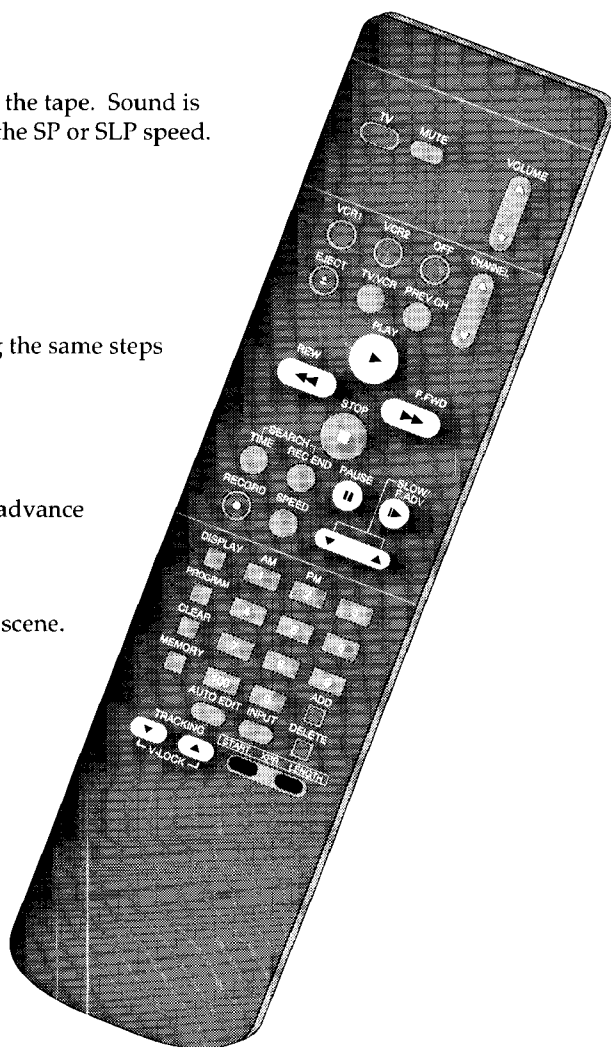
Frame Advance lets you view one stop-action frame after another. Frame advance works best for tapes recorded in the SP or SLP speed.

1. Press PAUSE to stop the action.
2. Press SLOW/F.ADV each time you want to view a frame of the scene.
3. Press PAUSE or PLAY to resume playback.

### X2 (Double Speed)

Only PLAY/X2 on the front of the VCR will access double speed during playback. The sound is turned off during double-speed play.

1. Press PLAY/X2 on the VCR during playback to start double speed playback.
2. Press PLAY/X2 or PLAY to return to normal playback.
3. Use TRACKING/V-LOCK during double-speed playback to remove horizontal line or bars from the picture.





## Using the Playback Features

### Time Counter

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

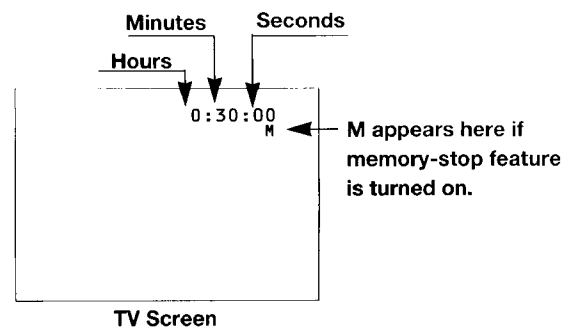
For example, if a 30-minute program was recorded at the beginning of the tape and you wanted to record another program after it, you would:

1. Insert the pre-recorded tape.
2. Press DISPLAY twice to display only the time counter on the TV screen.
3. Press F.FWD to fast forward the tape until the time counter reads 0:30:00.

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

4. Press CLEAR to reset the time counter to 0:00:00.
5. Press DISPLAY again to remove the time counter from the screen.

The time counter is removed from the screen during picture search.



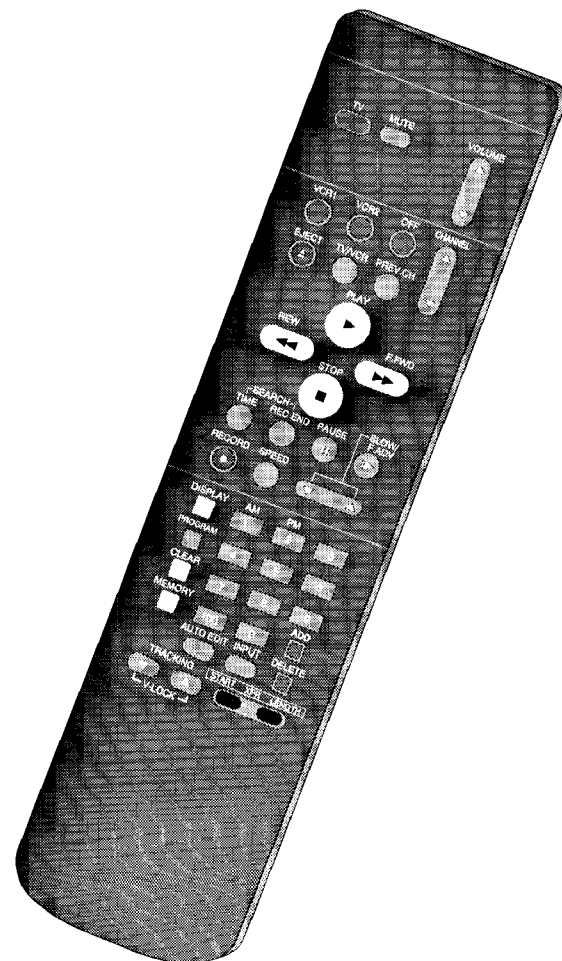
### Using the Time Counter's Memory-Stop Feature

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

1. Insert a pre-recorded tape.
2. Press DISPLAY two times to display the time counter.
3. Press MEMORY to turn on memory-stop feature. An M appears with the time counter to let you know the memory-stop feature is turned on.
4. Press PLAY or F.FWD (REW) to advance to the spot on the tape where you want to return to quickly.
5. Press CLEAR to reset the time counter to 0:00:00M.
6. Continue playing the tape.
7. Press STOP and then REW or F.FWD when you want to return to the spot you selected on the tape.

The VCR searches for the spot and stops at the counter reading of 0:00:00M. During fast forwarding, the tape advances to the end of the tape and switches to rewind searching for 0:00:00M.

8. Press MEMORY to turn off memory-stop feature.



## Using the Playback Features

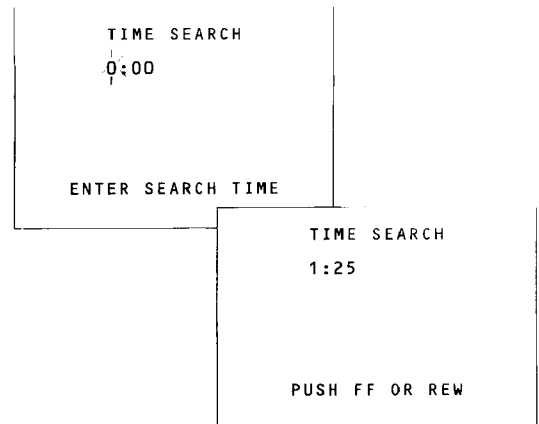
### Time Search

The VCR can forward or reverse search the video tape for a specific program or spot on the tape using a specified amount of time.

1. Insert a pre-recorded tape.
2. Press TIME SEARCH on the remote.
3. Enter the hour(s) and/or minute(s) with the number buttons.
4. Press F.FWD or REW.

The VCR will advance the tape for the specified time and begin playback.

5. Stop time search by pressing STOP.



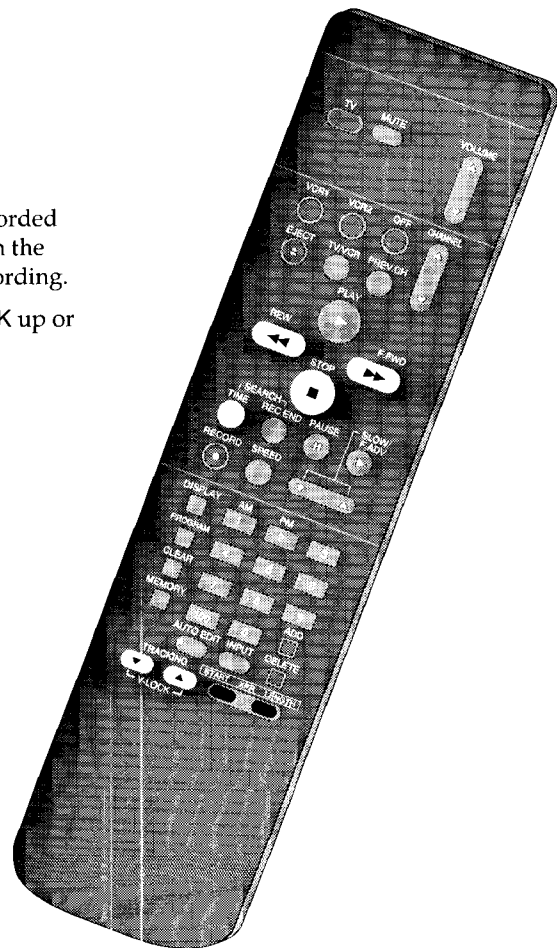
### Automatic Tracking

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

### Manual Tracking

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

When streaks or snow appear in the picture, press TRACKING/V-LOCK up or down for the best possible picture.



## Using the Playback Features

### Repeat Play

This feature allows the VCR to play a tape over and over. When the REPEAT PLAY feature is ON, the VCR will play the tape to the end of the tape (or until it reaches a blank portion on the tape), automatically rewind the tape, and play the tape again.

#### To Select REPEAT PLAY

1. Press PROGRAM to see the VCR MAIN MENU on the TV screen.
2. Press 4 to see the SET UP VCR menu on the TV screen.
3. Press 3 to switch REPEAT PLAY: ON or OFF.

#### VCR MAIN MENU

- 1 PROGRAM TIMER
- 2 REVIEW PROGRAMS
- 3 SET VCR CLOCK
- 4 SET UP VCR

- 1 AUTOPROGRAM CHANNELS
- 2 CABLE/ANT : ANTENNA
- 3 REPEAT PLAY: ON
- 4 REMOTE CONT: VCR1

PRESS NUMBER TO SELECT  
PRESS PROGRAM TO END

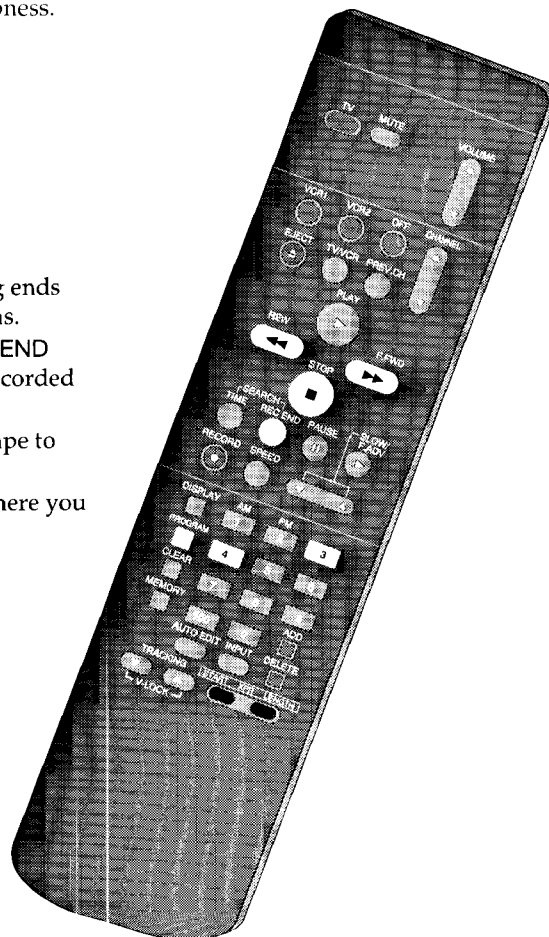
### AI (Artificial Intelligent) Picture Control

The VCR has AI picture control that automatically adjusts picture sharpness. This feature either provides improved picture resolution or less noise depending on the condition of the tape.

### Record-End Search

The VCR will locate the approximate point on the tape where recording ends and a blank portion (one that has never been recorded on) of tape begins.

1. During stop, rewind, or fast-forward operation, press REC END SEARCH on remote. The VCR will stop at the end of the recorded section.  
If the VCR is in a blank portion of tape, it will rewind the tape to the end of the recorded section and stop.
2. Playback a portion of the tape to locate the precise point where you want to begin recording.
3. To stop a REC END SEARCH in progress, press STOP.



## **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**  
**Express Recording**  
**Using Two VCRs for Copying Tapes**

### **Recording Speeds**

SP (Standard Play) gives the best quality recording. That is why most pre-recorded, 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 this speed.

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 this speed.

### **Recording Pause**

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

Press **PAUSE** during recording to stop and start recording.

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

## **Basic Recording – Operating Instructions**

### **To make a recording**

1. Turn on the TV and tune it to the VCR viewing channel, either 3, 4, or TV's video input.
2. Insert a tape with safety tab in place.
3. If using one of the basic hookups, make sure the VCR indicator lights in the VCR display area. If not, press TV/VCR to turn it on.
4. Select recording speed using **SPEED** on the remote.  
The tape speed indicator appears on the TV screen.
5. Select the channel to be recorded or line input if using the audio/video jacks.  
The channel number appears on the TV screen.
6. Press **RECORD** on the remote or **REC** and **PLAY/X2** on the VCR at the same time to begin recording.  
REC indicator lights on the VCR display area.

### **Watch a TV channel while VCR is recording a different channel**

1. Follow steps 1 through 5 above.
2. If using one of the basic hookups, press TV/VCR to switch to the TV channel.  
The VCR indicator will turn off.
3. Select the channel you want to watch with the TV's channel buttons.
4. Press **STOP/EJECT** on VCR or **STOP** on remote when recording is finished.

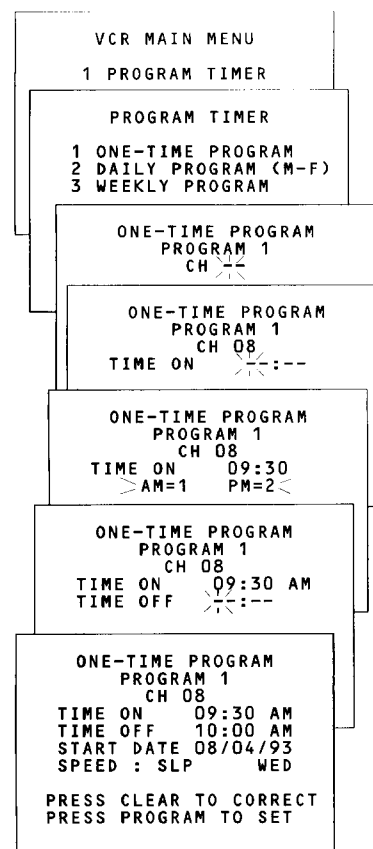
## Recording While You're Away (Timer Recording)

The timer program feature lets you program the VCR to record up to eight 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.

### Setting a Timer Recording

1. Press PROGRAM on the remote to display the VCR MAIN MENU.
2. Press 1 to display the PROGRAM TIMER menu.
3. Press 1, 2, or 3 to select type of program.
  - 1 ONE-TIME PROGRAM – single program.
  - 2 DAILY PROGRAM (M-F) – Monday through Friday.
  - 3 WEEKLY PROGRAM – same program once a week.
4. Use number buttons on the remote to enter the channel number (or INPUT on remote to select a line input), time to begin, time to turn off, and date of the recording. Just follow the on-screen prompts.
5. Select a recording speed using SPEED on the remote .
6. Press PROGRAM to enter your program
7. Repeat steps 2– 6 for additional programs.
8. **Turn off the VCR** before recording begins.  
The non-flashing TIMER indicator will light on VCR front panel.
9. If using a cable box, leave it turned on and tuned to the desired channel.



### Checking or Clearing a Timer Recording

1. Press PROGRAM on remote to display VCR MAIN MENU on TV screen.
2. Press 2 for REVIEW PROGRAMS.  
Each entered program is displayed for a few seconds in sequence.
3. Press DISPLAY or 2 to display information at a faster pace.
4. Press CLEAR when the program you want to erase appears on the screen.

## Express Recording (XPR)

Express recording lets you record up to four hours without using the timer feature. You can begin recording immediately, or record later – within 24 hours. The VCR will turn off automatically at the end of the recording. Only two buttons on the remote are used to express record.

### Operating Instructions

1. Turn on the TV and tune it to the VCR viewing channel, either 3, 4, or TV's video input.
2. Insert a tape with safety tab in place.
3. Select the channel (or line input) you want to record.
4. Select the desired recording speed using **SPEED** on the remote.
5. **Immediate XPR Recording**
  - A. To record immediately, press **LENGTH** to bring the display to the TV screen. Press again to start recording.  
REC and TIMER indicators light on the VCR front panel.
  - B. Press **LENGTH** repeatedly until the amount of recording time for the program is displayed on the TV screen.
  - C. Each press of **LENGTH** increases the time from 30 minutes up to 4 hours. The display will disappear from the screen after a few seconds.
  - D. You can see the time remaining for the recording or extend the recording time by pressing **LENGTH** while the display is on the TV screen.

START	LENGTH	CH08
NOW	0:00	

START	LENGTH	CH08
07:00PM	0:00	WED 13

### Delayed XPR Recording

- A. To record at a later time, press **START** until the time you want to begin recording appears in the display.  
The time increases one-half hour each time you press **START**.
- B. Select the length of the recording time within five seconds by pressing **LENGTH** (up to four hours).
- C. **Turn off VCR** for delayed XPR.  
The non-flashing **TIMER** indicator will light on VCR front panel.

## Additional Recording Information

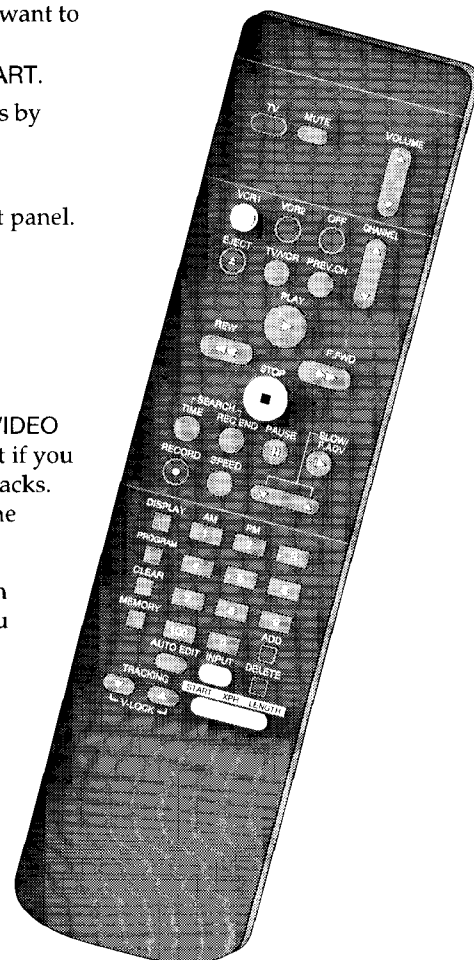
### Timer Recording From the VCR's Line Input

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** on the remote, **VIDEO** is displayed on the TV screen instead of the channel number during timer programming if you are recording from the **AUDIO/VIDEO IN** jacks.

### Stopping a Recording in Progress

- |                  |   |
|------------------|---|
| With the VCR:    | Press <b>POWER</b> , and then <b>STOP/EJECT</b> within a few seconds.         |
| With the Remote: | Press <b>VCR1</b> ( <b>VCR2</b> ), and then <b>STOP</b> within a few seconds. |



# **Using Two VCRs for Copying and Editing Tapes**

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

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

**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 on the back of the playback VCR.  
If you have connected your VCR using Option B, press **INPUT** on recording VCR to select the line input. **VIDEO** appears on the TV screen.
4. Insert the tape you want to copy into playback VCR. Insert a blank tape with safety tab in place into recording VCR.
5. Press **PLAY/X2**, 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 **REC** and **PLAY/X2** at the same time, 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 playback VCR by using **F.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.

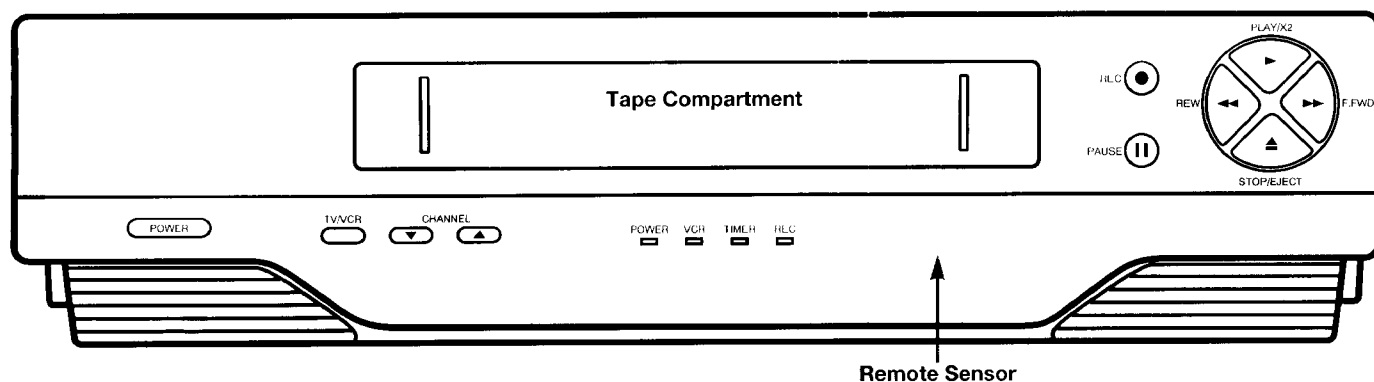
## **Using Dual Remote with AutoEdit™**

Use this VCR as the recording VCR and set it to respond to **VCR2** on the remote as described on page 12. 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** on remote to control recording VCR. Press **RECORD**, then **PAUSE**, to put recording VCR in pause mode.
3. Press **VCR1** on remote to control playback VCR.
4. Use **F.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 **AUTO EDIT** on remote; the VCRs will begin copying.
6. Press **AUTO EDIT** again when you want to stop the tape from copying.
7. Repeat steps 4 – 6 as needed.
8. Press **VCR1**, **STOP**, then **VCR2**, **STOP**, when you are finished.

# Location of Controls

## Front Panel



### POWER

Turns the VCR on or off.

### TV/VCR (Applies only to basic hookup)

Switches the picture signal so that it either comes from the VCR or the TV channel. *See page 9.*

### CHANNEL ▲/▼

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

### PAUSE

Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

### REC (Record)

Press with **PLAY/X2** to start VCR recording.

### PLAY/X2

Plays a tape in normal speed with one press.

Plays a tape in double speed with two presses.

Press with **REC** to start VCR recording.

### REW (Rewind)

Rewinds the tape when the VCR is stopped.

Searches the picture in reverse during playback.

### F.FWD (Fast-Forward)

Fast-forwards the tape when the VCR is stopped.

Searches the picture forward during playback.

### STOP/EJECT

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

Ejects the tape when the VCR is stopped.

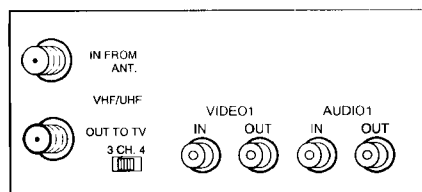
### Remote Sensor

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



# Location of Controls

## Back Panel



**Back of VCR**

### 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.

### 3 CH. 4 Switch

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

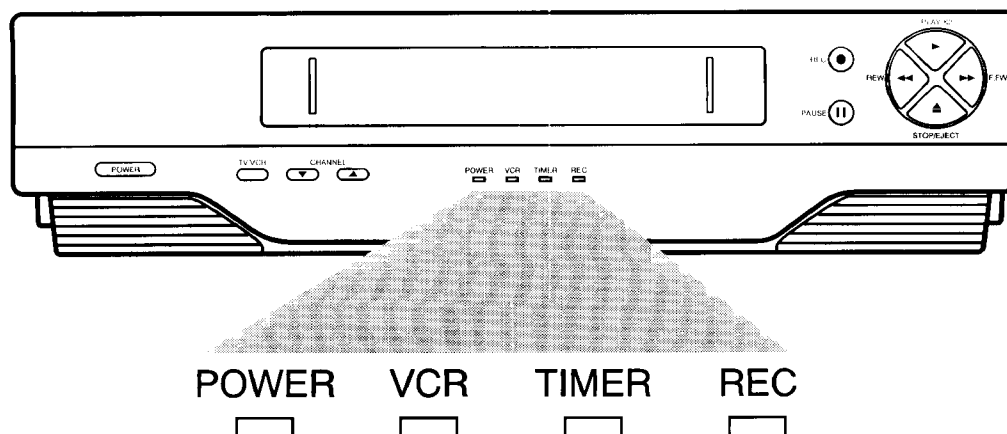
### VIDEO OUT and AUDIO OUT Jacks

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

### VIDEO IN and AUDIO IN Jacks

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

## Display Area (Front Center of VCR)



### POWER Indicator

Lights when the VCR is turned on.

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

Press TV/VCR button to turn on or off.

VCR indicator on: Picture from VCR.

VCR indicator off: Picture from TV channel.

### TIMER Indicator

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

Flashes if tape is not inserted or clock is not set.

### REC Indicator

Lights when the VCR is recording.

# 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 Servicenter.

## 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>
VCR does not respond to remote	<ul style="list-style-type: none"> <li>• Press VCR1 (VCR2) to set remote to control the VCR. <i>See page 9.</i></li> <li>• Aim remote at VCR with no objects between them.</li> <li>• Change batteries.</li> </ul>
Remote no longer controls a compatible TV	<ul style="list-style-type: none"> <li>• Press TV to set remote to control a TV.</li> <li>• Aim remote at TV with no objects between them.</li> <li>• Change remote batteries.</li> </ul>
VCR only responds to VCR2 button on remote	<ul style="list-style-type: none"> <li>• Check setting of REMOTE (VCR1/VCR2) feature in SETUP menu. <i>See page 9.</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 3CH.4 switch on back of VCR.</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, stop-action, frame advance, and slow-motion playback.</li> <li>• Press one of the TRACKING/V-LOCK buttons on the remote to move streaks up or down and out of the picture.</li> </ul>
Streaks in picture during normal playback	<ul style="list-style-type: none"> <li>• Press one of the TRACKING/V-LOCK buttons on the remote to move streaks up or down and out of the picture.</li> <li>• Check tape – it may be worn out or of poor quality.</li> </ul>
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> <li>• VCR is in pause mode. Press PAUSE.</li> </ul>
Will not record	<ul style="list-style-type: none"> <li>• Safety tab removed from cassette.</li> <li>• Make sure the line indicator (VIDEO appears on TV) is turned off for normal recording from the VCR's tuner. Press INPUT on the remote to turn off the line indicator.</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.</li> <li>• Check time and date (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 was not turned on or tuned to wrong channel at time recording was to begin.</li> <li>• VCR ejects cassette when end of the tape is reached during timer recording.</li> </ul>

# Trouble Checks

## Trouble

## Here's what to try:

Tape stops before complete rewind

- Press **MEMORY** on remote to turn off time counter's memory-stop feature, or press **REW** again. Tape rewinds to 0:00:00 M when memory stop is turned on. *See page 15.*

Rewind does not operate

- Tape already rewound.

Remote no longer controls a TV

- Press **PLAY/X2** to return to normal playback.

Time or date are incorrect

- Power interruption.
- Clock was not set accurately (check AM/PM and date).

VCR makes noise when stopped

- VCR is removing tape from heads. This is normal. The head cylinder inside the VCR will continue to rotate for a few minutes after you put the VCR in the stop mode.

Will not AutoProgram active channels correctly

- Check antenna connections.
- Check **CABLE/ANT** feature to make sure it is properly set. *See page 8.*

Cannot select channels over 69

- Cable channels over 69 can only be selected if **CABLE/ANT** feature is set to **CABLE**. *See page 8.*

## Specifications

<b>Format:</b>	VHS
<b>Record/Playback System:</b>	Video: Double-Azimuth 4-Head Audio: Mono record/playback
<b>Video Signal System:</b>	EIA standard: NTSC color
<b>Antenna:</b>	75-ohm external VHF/UHF combined antenna terminal
<b>Tuner:</b>	USA: 181 channel tuning capability* (125 cable channels)  Canada: 178 channel tuning capability* (122 cable channels)
<b>Type:</b>	AutoProgramming frequency synthesis
<b>Power Requirement:</b>	120V AC, 60 Hz
<b>Power Consumption:</b>	18 watts
<b>Dimensions:</b>	15 inches wide (380 mm) 3.5 inches high (89 mm) 11.5 inches deep (292 mm)
<b>Weight:</b>	8.6 pounds (3.9 kg)
<b>Storage Temperature Range:</b>	- 22°F to +149°F
<b>Operating Temperature Range:</b>	+41°F to +104°F

\*Check your cable company's compatibility requirements.

## Cleaning the VCR

Use a soft cloth or the 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 polish 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.

### 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, rebuilt 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.

### 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 in Canada:

- The Canadian warranty applies in place of this warranty.

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For your nearest  
authorized Servicenter  
call toll-free in the U.S.A.

1-800-336-1900

If your VCR needs service, please contact  
your dealer or the nearest Servicenter from  
the yellow pages. Please do not send any  
products to the Indianapolis address listed in  
this manual or on the carton. This will only  
add delays in service for your product.

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