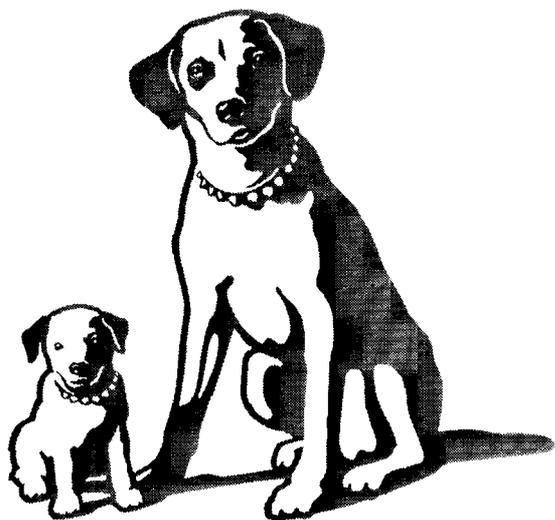


VR327A

USER'S GUIDE



TRINITY

VIDEO CASSETTE

RECORDER

Important Information

WARNING

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

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

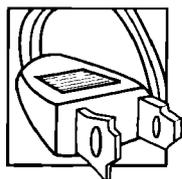


This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury



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 VCR.

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 VCR.

Model No. VR327A

Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

Table of Contents

Important Information

Warnings, Cautions, Note to Cable TV Installer, and Product Registration _____ 1

Hooking Up the VCR

Choosing a Hookup _____ 2
 Antenna or Cable System Without a Cable Box _____ 3
 Cable System With Cable Box to Unscramble All Channels _____ 4
 Cable System With Cable Box to Unscramble Only Pay Channels _____ 5
 Connecting Two VCRs for Copying Tapes _____ 6

Setting Up the VCR

Startup
 Check Accessories with VCR _____ 7
 Insert Batteries in Remote _____ 7
 Turn on the TV and VCR _____ 7
 Place Channels in the VCR's Memory _____ 8
 Add or Remove Channels from the VCR's Memory _____ 8
 Use TV • VCR Button _____ 9
 Set the Time and Date _____ 9
 Set the Language/ Seleccione el Idioma _____ 9

Using the Remote Control

VCR Function Buttons _____ 10-11

Playing a Tape

Operating Instructions _____ 12
 Using the Playback Features
 Auto Play Feature _____ 13
 Picture Search _____ 13
 DISPLAY Button _____ 14
 Time Counter _____ 14
 Zero Search _____ 15
 Commercial Scan (SEARCH Button) _____ 15
 Slow Motion _____ 15
 Pause for Stop Action _____ 16
 Frame Advance _____ 16
 Automatic and Manual Tracking _____ 16

Recording a Program

Types of Recordings _____ 17
 Recording Speeds _____ 17
 Recording Pause _____ 17
 Basic Recording – Operating Instructions _____ 17
 Watch a TV Channel While VCR is Recording a Different Channel _____ 17
 Express Recording _____ 18
 Recording While You're Away
 Select Cable Box Viewing Channel _____ 19
 Setting a Timer Recording _____ 20
 Checking or Clearing Timer Recordings _____ 21
 Timer Recording From the VCR's Line Input _____ 21
 Stopping a Timer Recording in Progress _____ 21
 Using Two VCRs for Copying and Editing Tapes _____ 22
 Copying and Editing Using Compatible Remote _____ 22

References

Specifications _____ 23
 Cleaning the VCR _____ 23
 Location of Controls
 Front Panel _____ 24
 Back Panel _____ 25
 Display Panel _____ 25
 Trouble Checks _____ 26-27
 Limited Warranty _____ 28
 Index _____ 29

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?

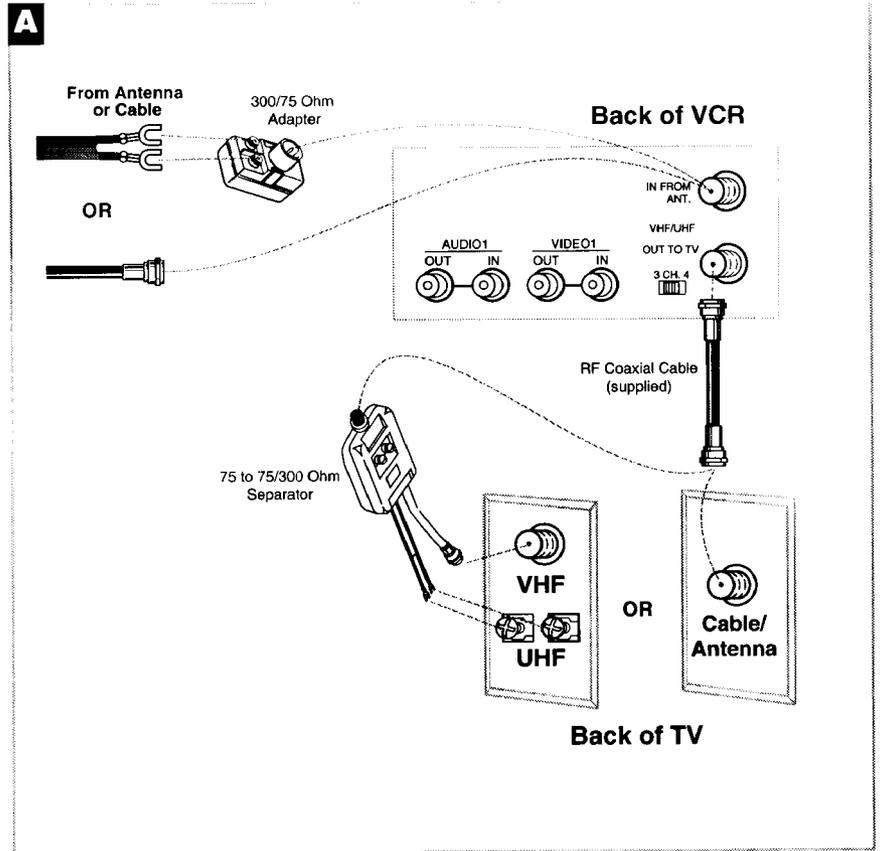
- A. Select a hookup by answering questions 1 and 2 above.
- B. Then, modify the connections as shown on page 6.

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 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. **Continue to page 7.**

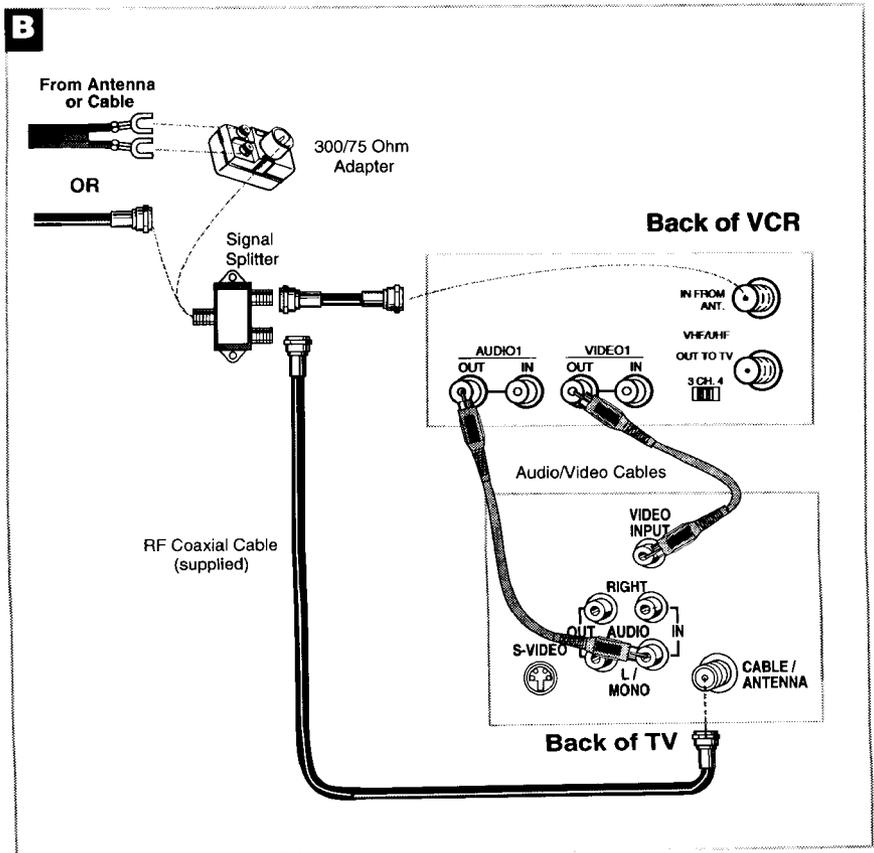


B. Advanced hookup.

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.
2. Plug in power cords of VCR and TV.
3. **Continue to page 7.**

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

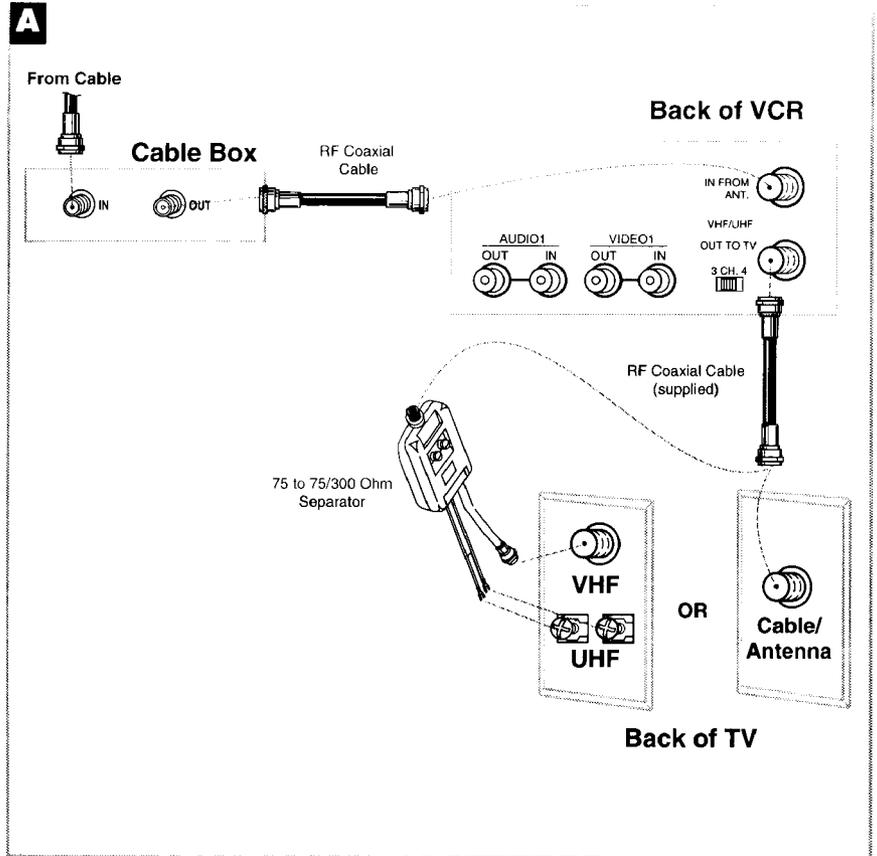


Cable System With Cable Box to Unscramble All Channels

A. Basic hookup.

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

1. 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. **Continue to page 7.**

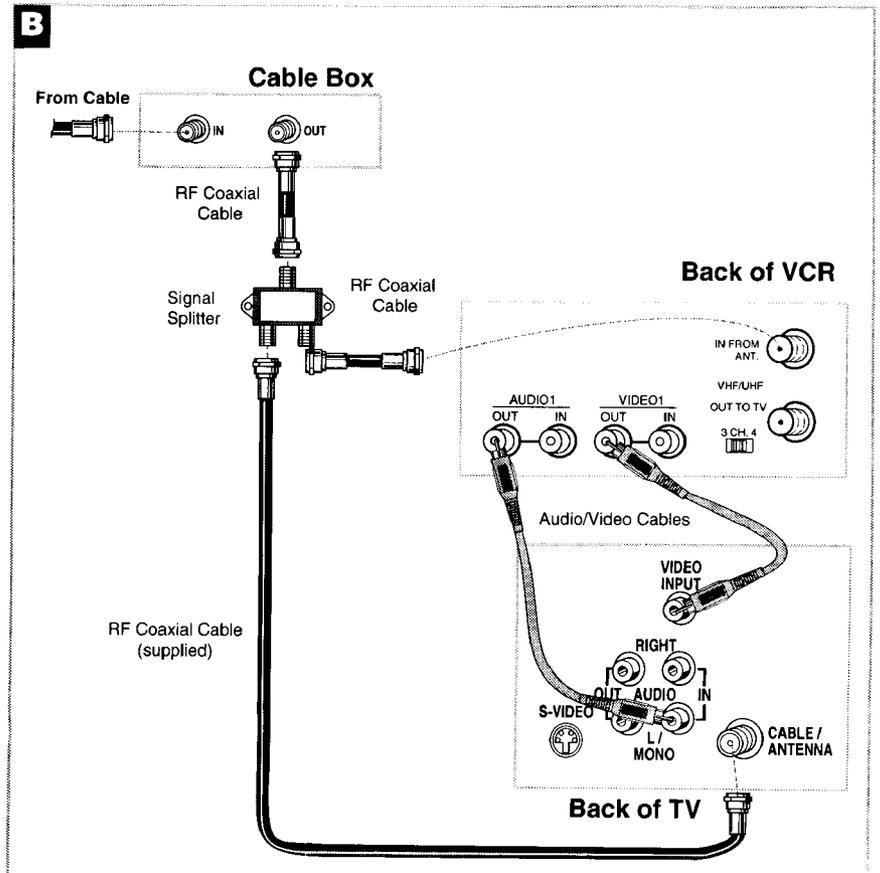


B. Advanced hookup.

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.
2. Plug in power cords of VCR, TV, and cable box.
3. **Continue to page 7.**

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



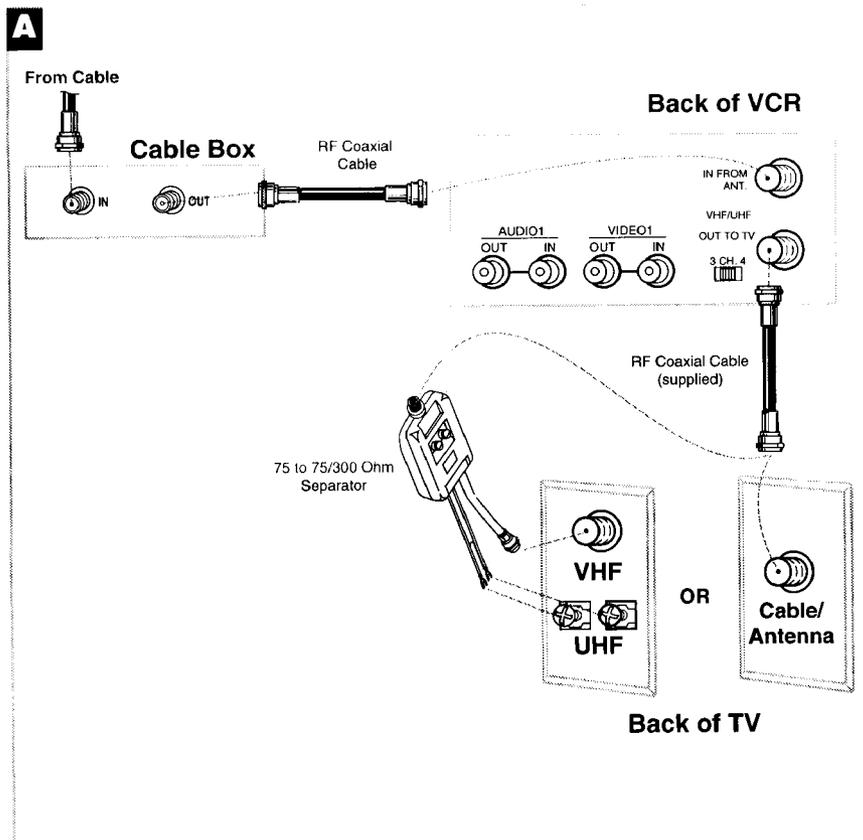
Cable System With Cable Box to Unscramble Only Pay Channels

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

A. Basic hookup.

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

1. 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. **Continue to page 7.**

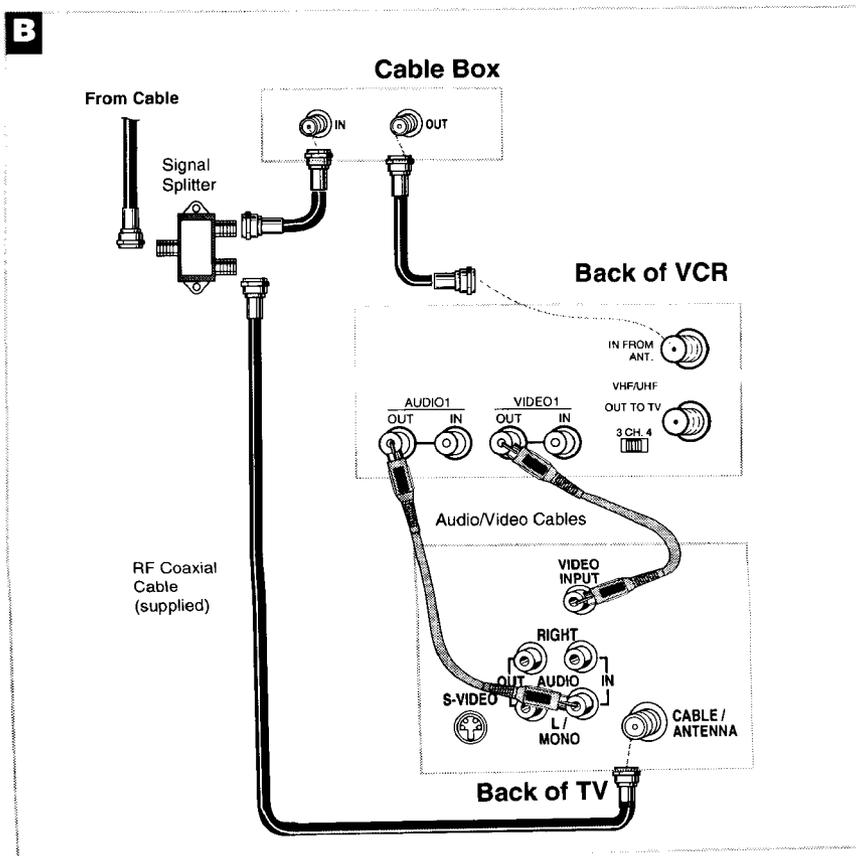


B. Advanced hookup.

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.
2. Plug in power cords of VCR, TV, and cable box.
3. **Continue to page 7.**

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



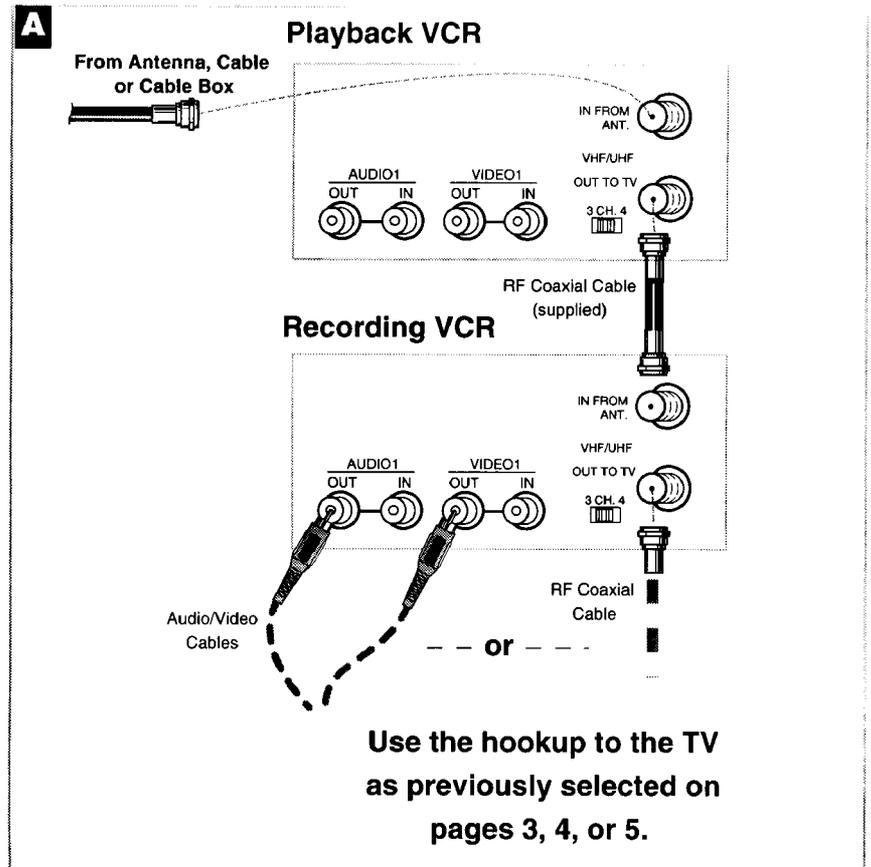
Connecting Two VCRs for Copying Tapes

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 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. **Continue to page 7.**



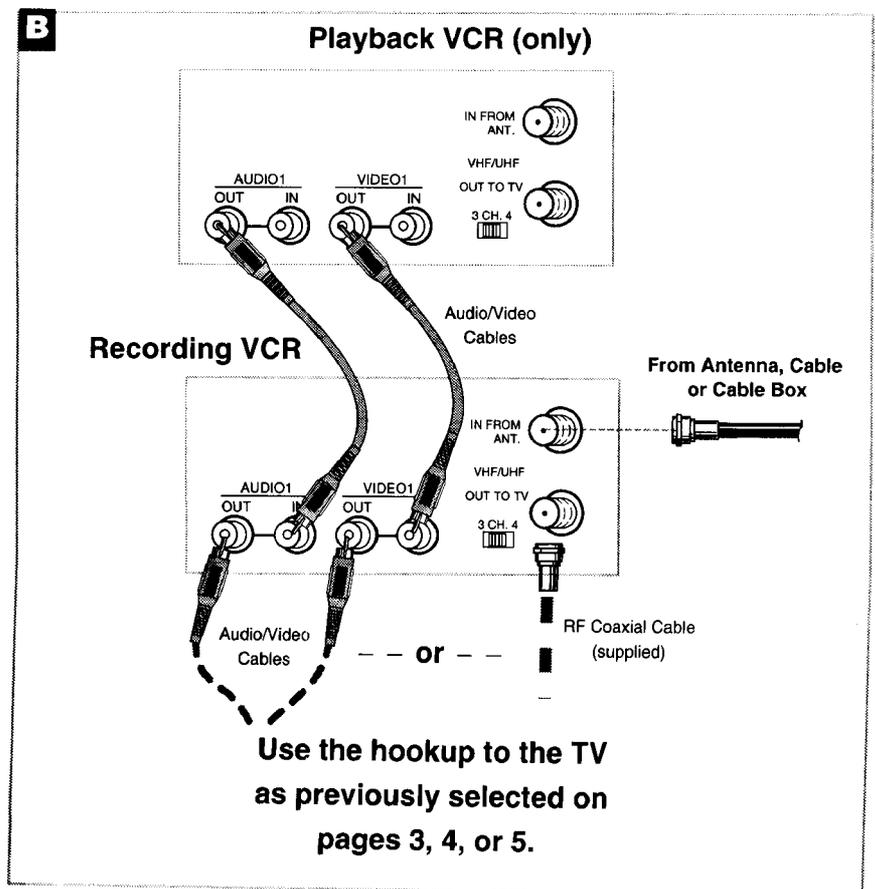
Option B hookup.

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.
3. Plug in power cords of VCRs and TV.
4. **Continue to page 7.**

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

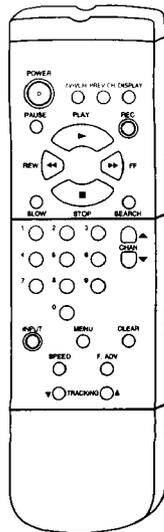
Caution: The unauthorized recording of television programs and other materials may infringe the rights of others.



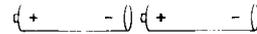
Startup

1. Check accessories with VCR.

Contact your dealer if any items are missing.



Remote
(Stock No. 221347)

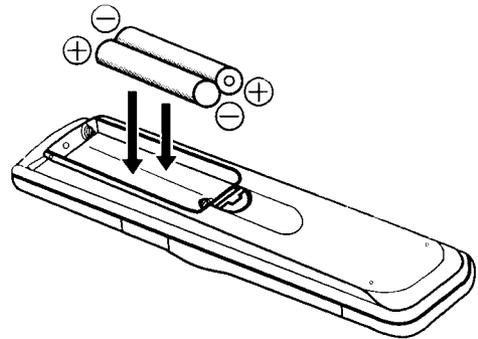
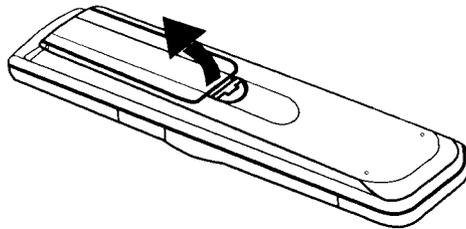


2 "AAA" Batteries



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.)

4. Turn on the VCR.

- A. Press POWER on the remote. The POWER and VCR indicators in the VCR's display panel light. The TIMER indicator flashes until the time is set.

Startup

5. Place channels in the VCR's memory.

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

Wait until the channel numbers stop changing. This takes about one to two minutes. The TV tunes to the lowest channel found. Then, pressing **CHAN** up or down selects only the active channels.

If you ever need to manually setup the channels on the VCR because you change cable or antenna signals:

- A. Press **MENU** to display the **VCR MAIN MENU** on the TV screen. If this menu does not appear:
 - Make sure the TV is tuned to same channel as the **3CH.4** switch on the VCR or to the TV's video input (refer to TV's manual).
 - If you use a basic hookup, check the VCR indicator in display panel — it should be on. Press **TV•VCR** to turn it on.
 - Check the connections.
- B. Press **3** to display the **CHANNEL SETUP** menu.
- C. Press **1** to begin **AUTO-SEARCH CHANNELS**.
The VCR automatically selects **CABLE** (cable TV) or **ANTENNA**. If you need to change the setting manually, press **3**.

```
AUTO-SEARCH CHANNELS

CONNECT ANTENNA CABLE...
THEN PRESS CH UP
```

```
VCR MAIN MENU

1 TIMER PROGRAMMING
2 REVIEW PROGRAMS
3 CHANNEL SETUP
```

```
CHANNEL SETUP

1 AUTO-SEARCH CHANNELS
2 ADD/REMOVE CHANNELS
3 TUNING MODE: CABLE
4 CABLE BOX SETUP

0 EXIT TO MAIN MENU
```

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.

You must place channels in memory using the **AUTO-SEARCH CHANNELS** feature *described above* before you can add or remove channels.

- A. Press **MENU** on the remote to display the **VCR MAIN MENU**.
- B. Press **3** to display the **CHANNEL SETUP** menu.
- C. Press **2** to display the **ADD/REMOVE CHANNEL** menu.
- D. Follow the directions on the screen.
- E. Add or remove more channels by using the **CHAN** up and down buttons.

```
VCR MAIN MENU

1 TIMER PROGRAMMING
2 REVIEW PROGRAMS
3 CHANNEL SETUP
```

```
CHANNEL SETUP

1 AUTO-SEARCH CHANNELS
2 ADD/REMOVE CHANNELS
```

```
ADD/REMOVE CHANNEL

          CH 03
        IS PRESENTLY ADDED

PRESS CLEAR TO REMOVE
PRESS MENU TO EXIT
```

Startup

7. Use TV•VCR button.

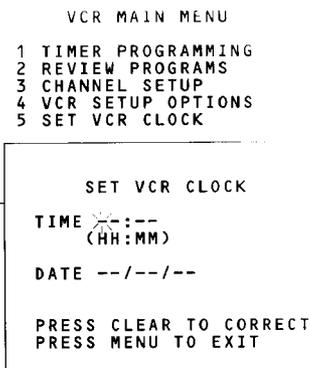
Skip this step if you used one of the advanced hookups.

When using one of the basic hookups, the TV•VCR button lets you switch between the picture coming from the VCR or television channels. This button lets you record a program on the VCR while watching another channel on the TV. *Details are on page 17.*

- A. Press TV•VCR to see the picture from the VCR. The VCR indicator lights in the display panel.
- B. Press CHAN 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 in the display panel. Change channels using the TV's remote.
- D. Return the TV to the VCR viewing channel — CH3 or CH4.
- E. Press TV•VCR to switch back to the picture from the VCR.

8. Set the time and date.

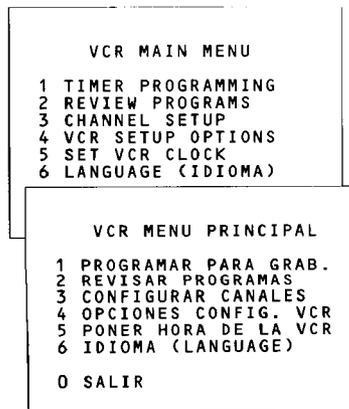
- A. Press MENU on the remote to display the VCR MAIN MENU.
- B. Press 5 to display SET VCR CLOCK. The TIMER indicator on the VCR's display panel flashes if the clock is not set.
- C. Enter the time and date with the number buttons on the remote.
 - Press 0 before single-digit numbers. Example: press 0, then 5, then 0, then 7 for a time of 5:07. Press 1 for AM or 2 for PM.
 - Press CLEAR on the remote to change incorrect entries.
- D. Press MENU to start the clock and remove the SET VCR CLOCK menu from the screen.



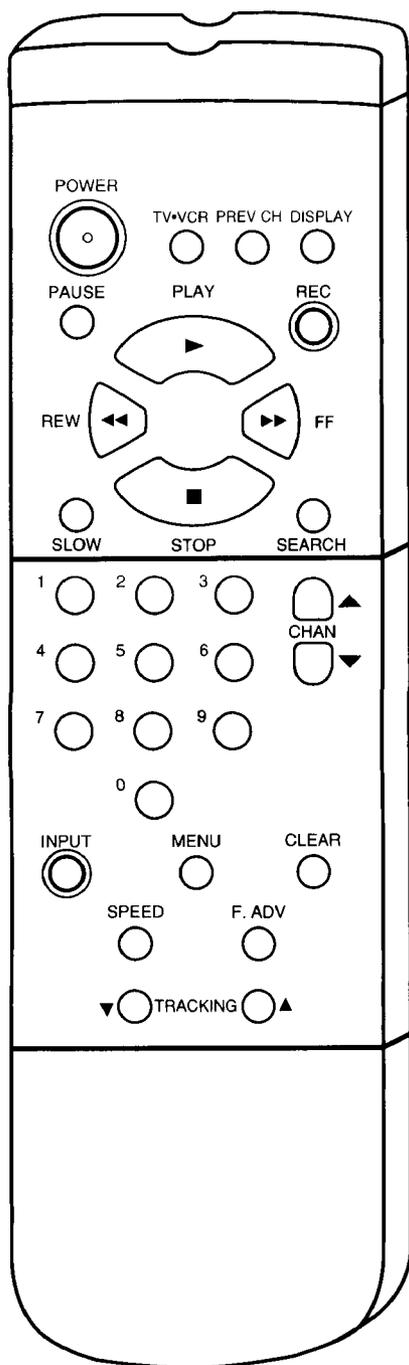
9. Set the language/Seleccione el idioma.

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

- A. Press MENU. on remote to display the VCR MAIN MENU.
- B. Press 6 to switch between English or Spanish.
 - Select LANGUAGE to have the menus displayed in English.
 - Select IDIOMA to have the menus displayed in Spanish.



VCR Function Buttons



CHAN Up or Down

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

CLEAR

Resets time counter to 0:00:00.

Lets you change entries when setting the time or VCR for a timer recording.

DISPLAY

Shows VCR operating displays on the TV screen.

Displays the time counter.

FF (Fast Forward)

Fast forwards the tape when the VCR is stopped.

Searches the picture in forward motion during playback.

F. ADV (Frame Advance)

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

INPUT

Turns the line input on or off.

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

MENU

Displays the VCR MAIN MENU on the TV screen.

Removes a menu from the screen.

VCR Function Buttons

(continued)

Numbers (0 through 9)

Select a channel up to 99 by pressing two numbers.

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

PAUSE

Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

PLAY

Plays a tape.

POWER

Turns VCR on and off.

PREV CH (Previous Channel)

Switches between two channels.

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

RECORD

Starts VCR recording.

Used for Express recording.
See page 18.

REW (Rewind)

Rewinds the tape when the VCR is stopped.

Searches the picture in reverse motion during playback.

SEARCH

Displays ZERO SEARCH menu on TV.

Advances tape 60 seconds during playback.

SLOW

Used for slow-motion playback.

SPEED (Tape Speed)

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

STOP

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

TRACKING Up or Down

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

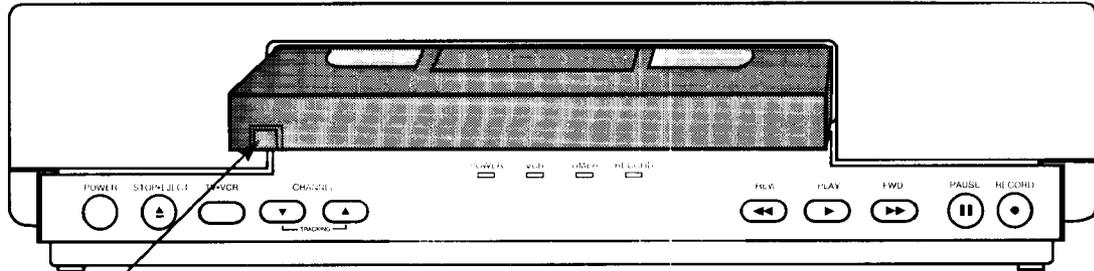
TV•VCR

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

Operating Instructions

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 POWER and VCR indicators light. The tape automatically begins playback if the safety tab on the cassette has been removed and the AUTO PLAY feature is turned on.



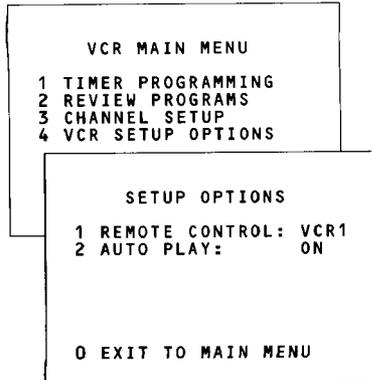
Safety Tab

3. Press PLAY, if necessary.
4. Press TRACKING up or down on the remote or the VCR to remove any streaks from the picture, if necessary. *Details are on page 16.*
5. Press STOP•EJECT on the VCR or STOP on the remote.
6. Press REW on the VCR or the remote.
The VCR automatically rewinds the tape if it reaches the end of the tape during playback. Also, 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 lets you tell the VCR whether to automatically start playing when you insert a tape with its safety tab removed.



1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 4 to display the SETUP OPTIONS menu.
3. Press 2 to select AUTO PLAY: ON or OFF.
 - Select ON if you want 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

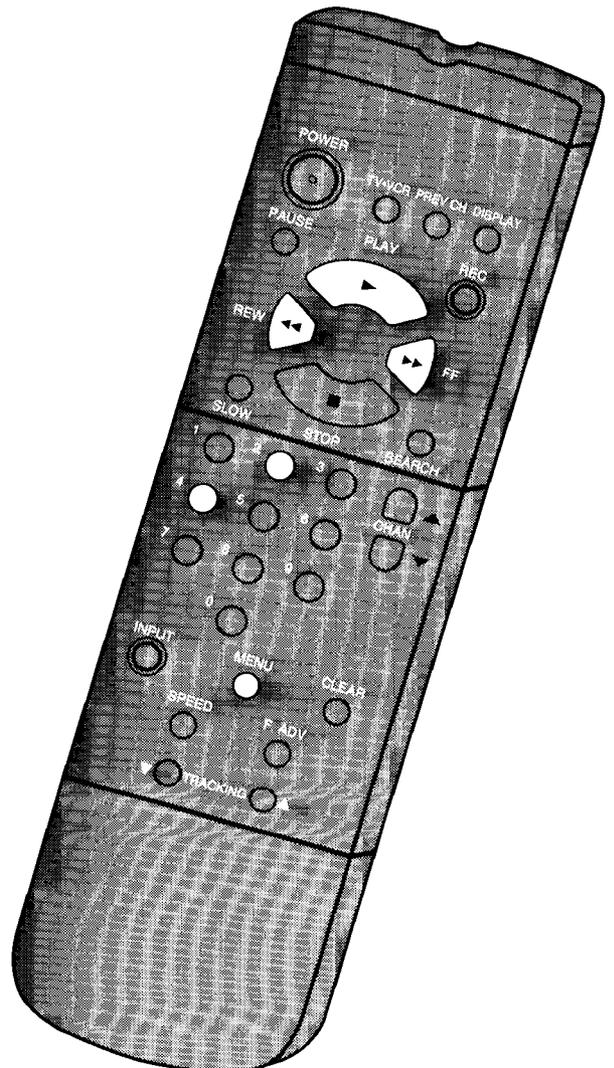
You can search for a specific tape location during playback by fast forwarding or rewinding the tape. Sound is turned off during picture search. No displays appear on the TV screen during search. Picture search works best for tapes recorded in the SLP speed.

Fast Forward Search

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

Rewind Search

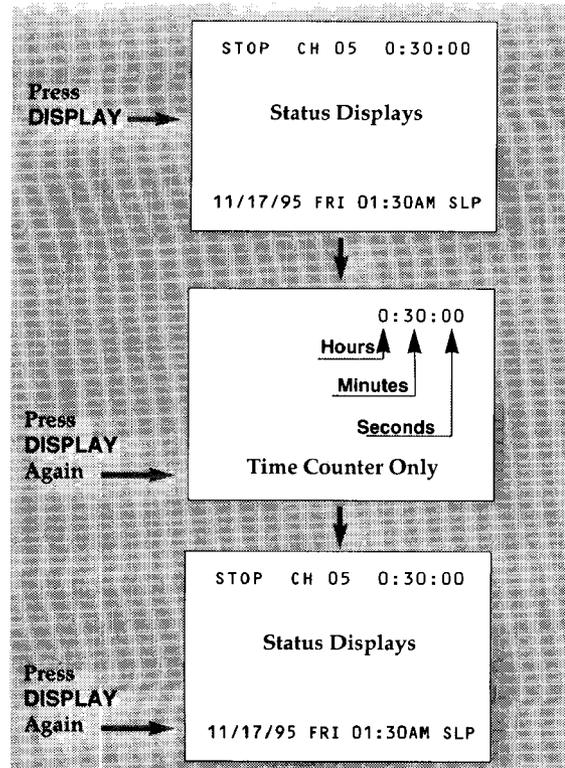
1. Press FF to search backward at a faster-than-normal speed.
2. Press FF or PLAY to return to playback.



Using the Playback Features

DISPLAY Button

1. Press DISPLAY to display the status of the VCR, channel number, time counter, date, time, and tape speed on the TV screen.
You must set the time and date before they can be displayed. If you do not press DISPLAY again, this display times out.
2. Press DISPLAY again to continually display the time counter on the TV screen.
3. Press DISPLAY again to return to status displays. These displays automatically time out.



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 recorded a 30-minute program at the beginning of the tape, you would:

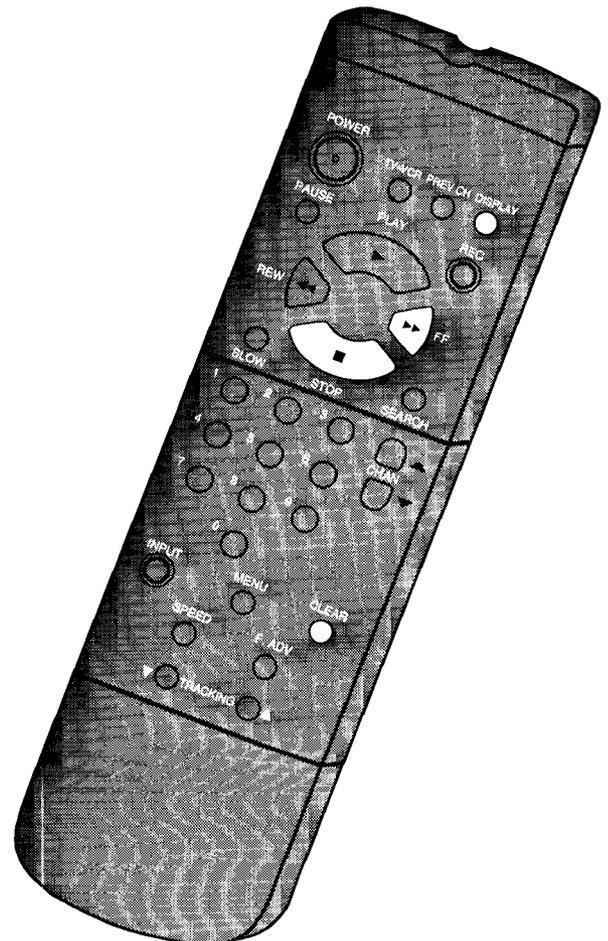
1. Insert the prerecorded tape.
2. Press DISPLAY twice to display only the time counter on the TV screen.
3. Press FF to fast forward the tape until 0:30:00 appears on the time counter. Press STOP.

This is the end of the program. You can begin recording a new program.

4. Press CLEAR on the remote to reset the time counter to 0:00:00.
5. Press DISPLAY to return to status displays. These displays time out.

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

Press CLEAR to display the time counter on the TV screen.



Using the Playback Features

Zero Search

The zero search feature lets you quickly return to a counter reading of 0:00:00 at any spot 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 on the remote to reset the time counter to 0:00:00.
5. Continue playing the tape.
6. Press STOP.
7. Press SEARCH in the stop mode to display the ZERO SEARCH menu on the TV screen. The current time counter appears.
8. Press REW or FF to return to 0:00:00. The time counter remains in the upper right corner of the TV screen during search.

```
ZERO SEARCH
CURRENT TAPE COUNTER IS
2:17:25

PRESS REW TO GO TO 0:00
PRESS SEARCH TO EXIT
```

```
ZERO SEARCH
CURRENT TAPE COUNTER IS
-2:17:25

PRESS FWD TO GO TO 0:00
PRESS SEARCH TO EXIT
```

Commercial Scan (SEARCH Button)

This is useful for scanning commercials or short program segments.

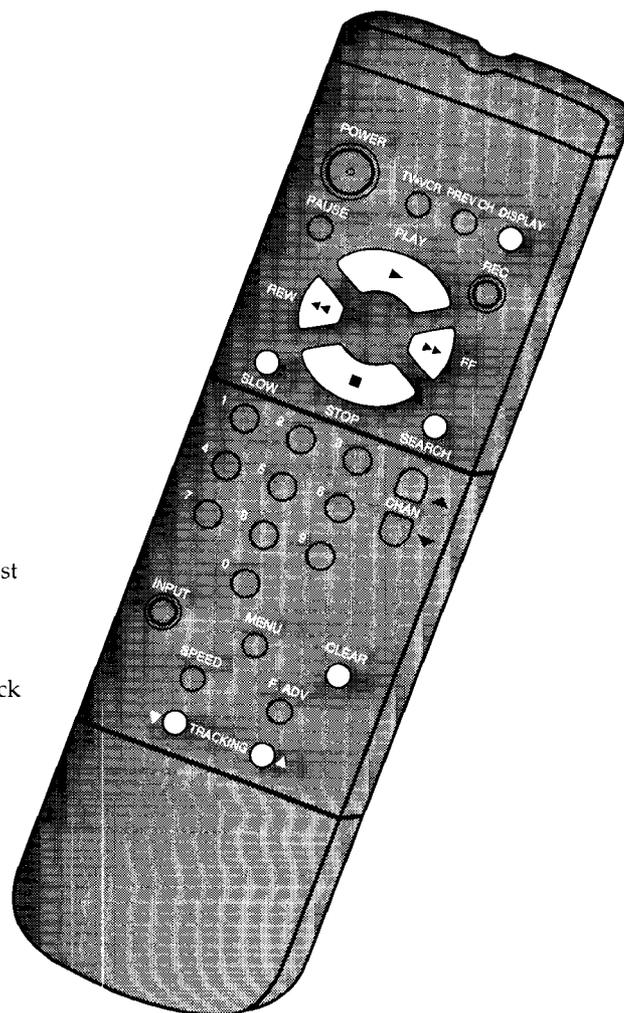
1. Press SEARCH once during playback to advance the tape approximately 60 seconds.

Slow Motion

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

1. Press SLOW to begin slow-motion playback.
2. Use TRACKING up or down to adjust the streaks for the best possible picture.
3. Press SLOW or PLAY to return to playback.

The VCR automatically switches from slow-motion playback to stop after a few 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 on the screen. Stop action works best for tapes recorded in the SLP speed.

1. Press PAUSE during playback to stop the action.
2. 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 SLP speed.

1. Press PAUSE 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.

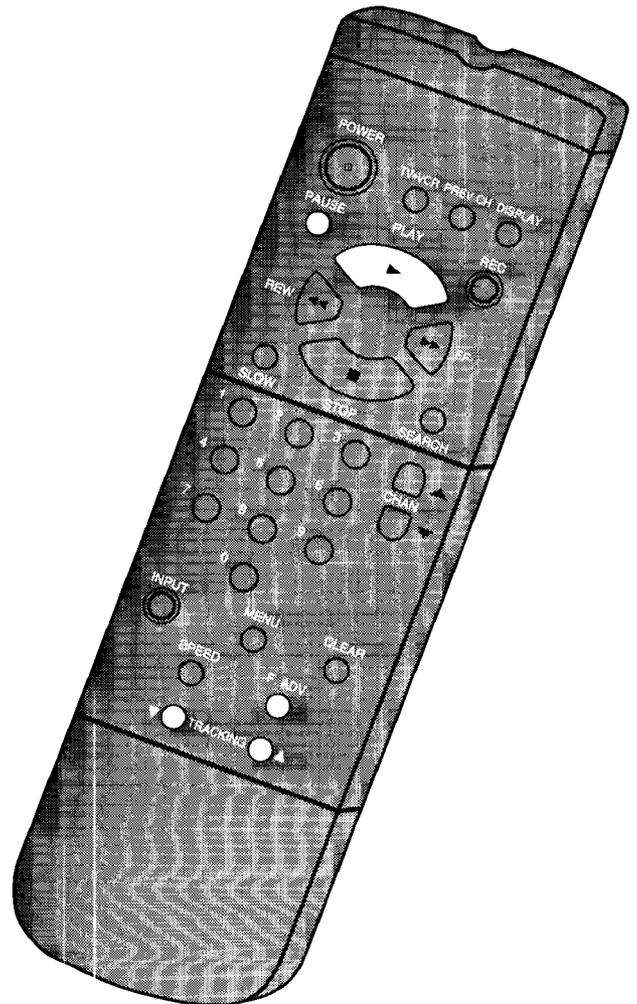
Automatic Tracking

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. It has no effect during recording.

When streaks or snow appear, press TRACKING up or down on the remote or VCR to adjust for the best possible picture.



Types of Recordings

Your VCR provides different recording features. The following sections describe these features.

Recording Speeds

Press **SPEED** on the remote to select a recording speed (SP, LP, or SLP). The speed you select appears on the TV screen.

SP (Standard Play) gives the best quality recording. This is why most prerecorded, rental tapes are recorded in SP. Fewer programs can be recorded on the tape.

LP (Long Play) gives twice the recording time of tapes recorded in SP.

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 best in this speed.

Cassette	Recording Time		
	SP	LP	SLP
T-120	2Hr	4Hr	6Hr
T-160	2Hr 40Min	5Hr 20Min	8Hr

Recording Pause

This feature lets you prevent recording short passages of unwanted material.

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

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

Basic Recording – Operating Instructions

To make a recording

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

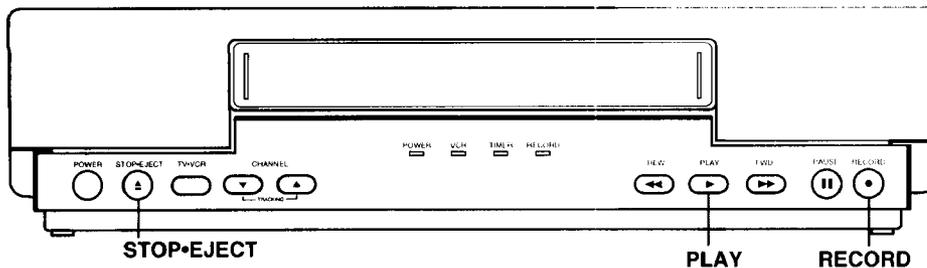
1. Insert a tape with its safety tab in place.
2. If you are using one of the basic hookups, make sure the VCR indicator appears in the VCR's display panel. If not, press **TV•VCR** to turn it on.
3. Use **SPEED** on the remote to select a recording speed. The tape speed indicator appears on the TV screen.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

Watch a TV channel while VCR is recording a different channel

1. Follow steps 1 through 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.

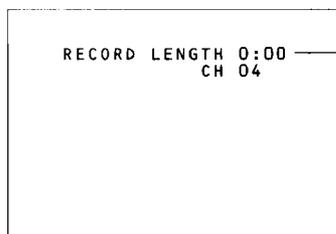


Operating Instructions

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 RECORD and PLAY together on the VCR or REC on the remote to activate express recording.
6. Press RECORD or REC repeatedly until the amount of recording time for the program appears on the TV screen.

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

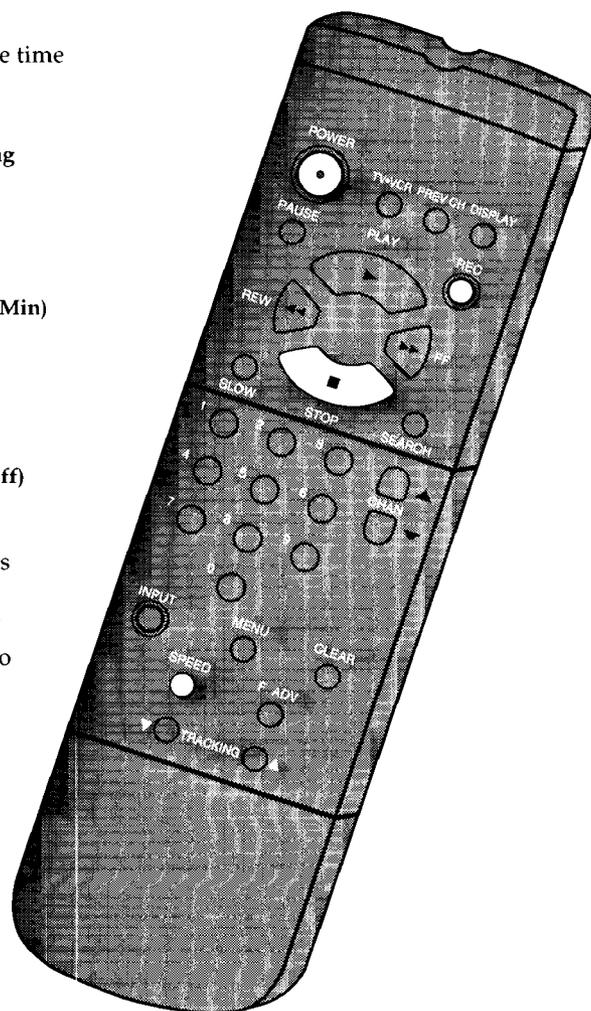
Press RECORD	Recording Time
0:30	(30 Min)
1:00	(1 Hr)
1:30	(1 Hr, 30 Min)
2:00	(2 Hrs)
3:00	(3 Hrs)
4:00	(4 Hrs)
0:00	(Turns Off)



Recording Display on TV Screen

The RECORD indicator appears in the VCR's display panel.

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



Stopping a Recording in Progress

With the VCR: Press STOP•EJECT.

With the Remote: Press STOP.

Recording While You're Away (Timer Recording)

Select cable box viewing channel (Required only if all channels are received from a cable box.)

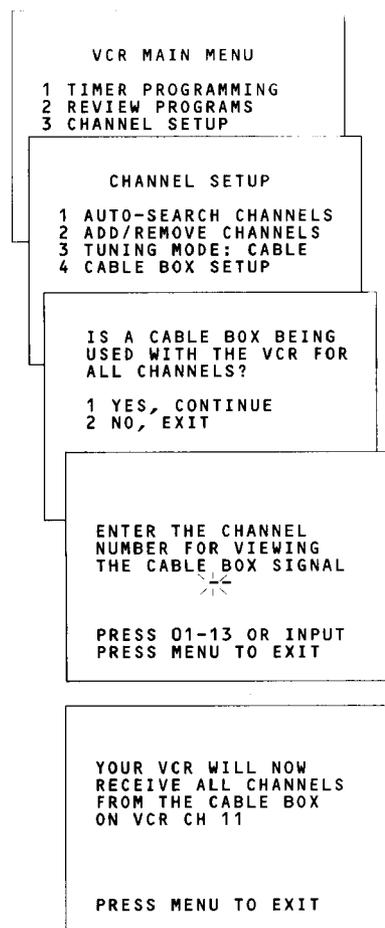
1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 3 to display the CHANNEL SETUP menu.
3. Press 4 to display the CABLE BOX SETUP menu.
4. Press 1 when the CABLE BOX SETUP menu appears.
5. Press two numbers on the remote to enter the output channel of your cable box. Press 0 before a single-digit number. (Valid numbers are 01 – 13.)

Press CLEAR on the remote to correct an entry.

If you connected your cable box to the VCR using the cable box's AUDIO/VIDEO OUT jacks, press INPUT on the remote to select the VIDEO option.

6. Press MENU. A message appears which times out, or you can press MENU again to return to the CHANNEL SETUP MENU.

The VCR automatically enters the output channel of your cable box and CABLE in the TIMER PROGRAMMING menu.



Recording While You're Away (Timer Recording)

The timer program feature lets you program the VCR to record up to eight different programs within a one year period. Before setting the timer, make sure that:

- The clock is set correctly.
- A tape with a safety tab has been inserted with enough tape to record the programs.
- If you receive all channels from a cable box, you completed **CABLE BOX SETUP**. See page 19.

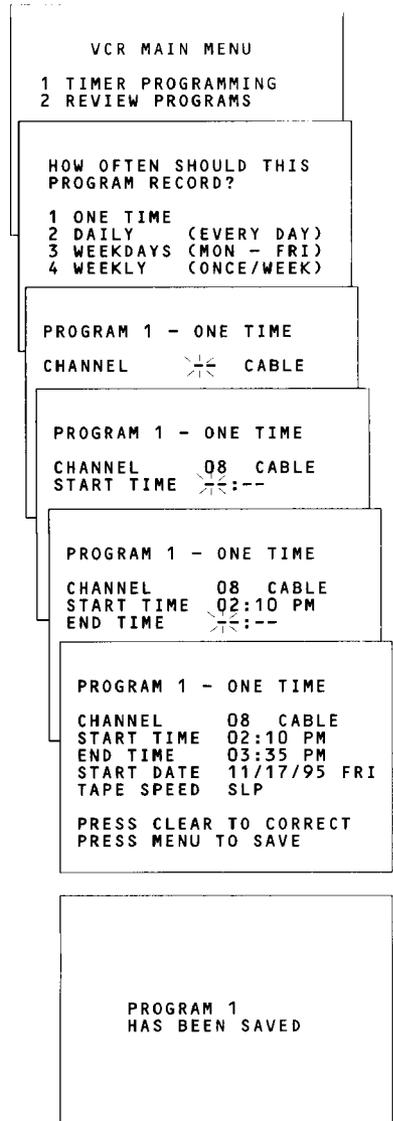
Setting a Timer Recording

1. Press **MENU** on the remote to display the **VCR MAIN MENU**.
2. Press **1** to display the **TIMER PROGRAMMING** menu.
3. 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.
4. 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 remote to correct an entry.

If you receive all channels from a cable box and completed **CABLE BOX SETUP**, the output channel of your cable box and the word **CABLE** automatically appear on the menu. See page 19.
5. Use **SPEED** on the remote to select a recording speed.
6. Press **MENU** to enter your program. A reminder appears which times out, or you can press **MENU** to return to the **VCR MAIN MENU**.
7. Repeat steps 2 – 6 for additional programs or press **MENU** to remove the menu from the TV screen.
8. If you are using a cable box, leave the VCR turned on and tuned to the channel you want to record. Otherwise, **turn off the VCR** before recording begins.

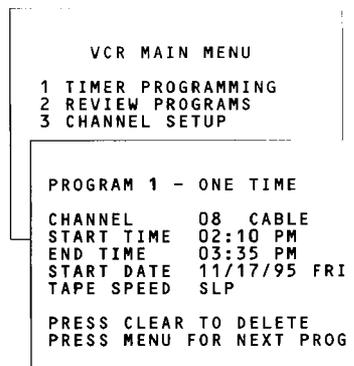
The **TIMER** indicator appears in the VCR's display panel.



Recording While You're Away (Timer Recording)

Checking or Clearing Timer Recordings

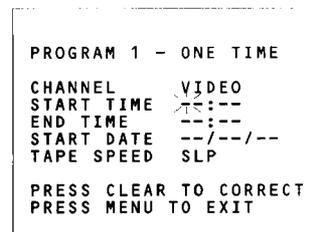
1. Press MENU on the remote to display the VCR MAIN MENU.
2. Press 2 for REVIEW PROGRAMS.
Each entered program is displayed for a few seconds in sequence. Press MENU or 2 to display information faster.
3. Press CLEAR on remote when the program you want to erase appears on the screen.



Timer Recording From the VCR's Line Input

The line input refers to the signal coming from the AUDIO1 and VIDEO1 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 to enter VIDEO instead of the channel number on the TV screen during timer programming.



Stopping a Timer Recording in Progress

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

With the Remote: Press POWER and then STOP 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 the TV to the VCR viewing channel, either 3, 4, or the TV's video input.
3. If you connected your VCR using Option A, (page 6), tune recording VCR to channel 3 or 4 – the one you selected on the back of the playback VCR.
If you connected your VCR using Option B, (page 6), press INPUT on the recording VCR's remote to select the line input.
4. Insert the tape you want to copy into the playback VCR. Insert a blank tape with its safety tab in place into the recording VCR.
5. Press PLAY, then PAUSE on the playback VCR when you reach the point on the tape or program where you want to begin copying. If the tape was not recorded on the playback VCR, streaks may appear and you may need to adjust tracking.
6. Press RECORD and PLAY together on the recording VCR or REC on the remote. Then, press PAUSE on recording VCR.
7. Press PAUSE on both VCR 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.

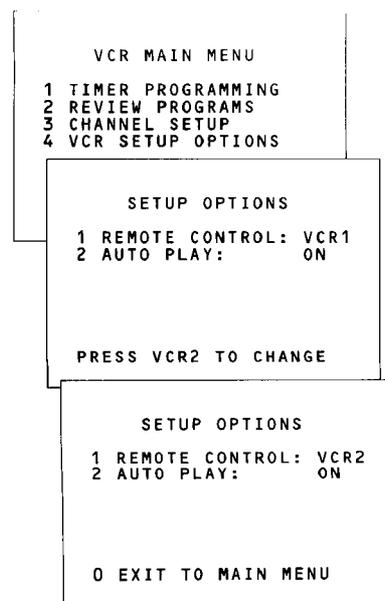
* You may turn off the TV after the recording has started as it does not have to be on to copy a tape.

Copying and editing using compatible remote

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

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

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



Specifications

Format:	VHS
Record/Playback System:	Video: 2-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
Operating Temperature Range:	+41°F to +104°F

*Check your cable company's compatibility requirements.

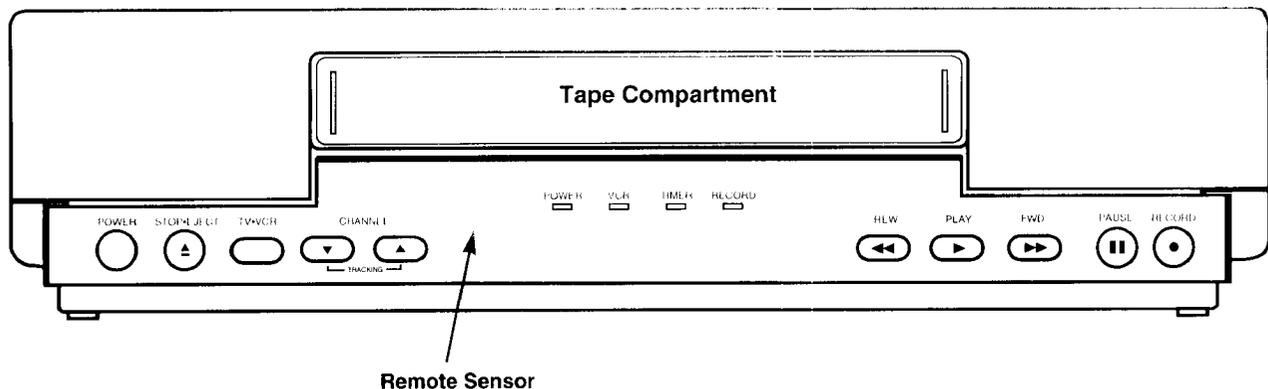
Cleaning the VCR

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.

Location of Controls

Front Panel



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

Adjusts tracking when a tape is playing.

FWD (Fast Forward)
Fast forwards the tape when the VCR is stopped.

Searches the picture forward during playback.

PAUSE
Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

PLAY
Plays a tape.

Press **RECORD** and **PLAY** at the same time to start the VCR recording.

POWER
Turns the VCR on or off.

RECORD
Press **RECORD** and **PLAY** at the same time to start 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.

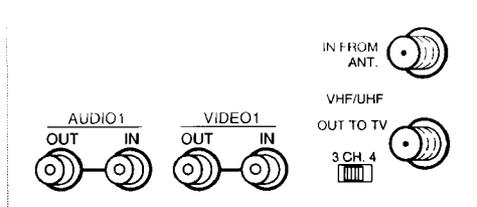
REW
Rewinds the tape when the VCR is stopped. Searches the picture in reverse during playback.

STOP•EJECT
Stops the normal functions such as record, playback, rewind, fast forward, or pause. Press when the VCR is stopped to eject the cassette.

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

Location of Controls

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.

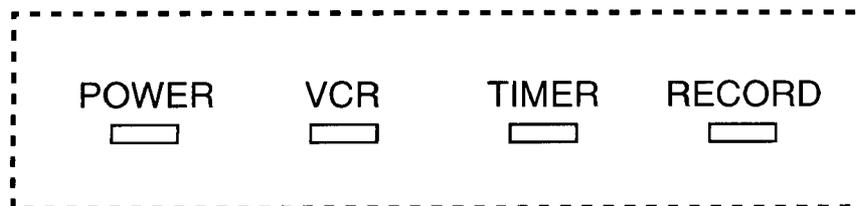
VIDEO1 IN and AUDIO1 IN Jacks

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 VCR or camcorder, when it is connected to these jacks.

Display Panel



POWER Indicator

Lights when the VCR is turned on.

RECORD Indicator

Lights when the VCR is recording.

TIMER Indicator

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

Flashes when the clock is not set or a 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:

- When VCR indicator is on, the picture comes from the VCR.
- When VCR indicator is off, picture is from the television channels.

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"> • 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. • Aim remote at VCR with no objects between them. • Change batteries. • Check setting of REMOTE CONTROL: VCR1 (VCR2) feature. <i>See page 22.</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 one of the TRACKING buttons on the remote or VCR to move streaks up or down 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.
Will not record	<ul style="list-style-type: none"> • Safety tab removed from cassette. • Make sure the line indicator (VIDEO) does not appear on the TV screen for normal recording from the VCR's tuner. Press INPUT on the remote to turn the line input off.

Trouble Checks

Trouble	Here's what to try:
Rewind does not operate	<ul style="list-style-type: none"> • Tape already rewind.
Timer recording not made or wrong program recorded	<ul style="list-style-type: none"> • Cable box was not turned on at time recording was to begin. • Program entered incorrectly (wrong channel or times). • Power interruption. Reset clock. <i>See page 9.</i> • Check to see if time and date are correct — including AM/PM. • Program exceeded tape's length or tape was not rewind beforehand. • VCR was not turned off at the time recording was to start. • No tape in VCR or cassette's safety tab broken off.
Incorrect time or date	<ul style="list-style-type: none"> • Clock was not set accurately (check AM/PM and date). <i>See page 9.</i>
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 AutoProgram active channels correctly	<ul style="list-style-type: none"> • Check antenna connections. • Check TUNING MODE: CABLE/ANTENNA feature. <i>See page 8.</i>
Cannot add or remove channels	<ul style="list-style-type: none"> • Channels must be placed in memory using AUTO-SEARCH CHANNELS feature before channels can be added or removed from channel memory. <i>See page 8.</i>
Cannot select channels over 69	<ul style="list-style-type: none"> • Cable channels over 69 can only be selected if TUNING MODE: CABLE/ANTENNA feature is set to CABLE. <i>Details are on page 8.</i>
Cassette with safety tab removed does not start to play automatically	<ul style="list-style-type: none"> • Set AUTO PLAY ON/OFF feature to ON. <i>Details are on page 13.</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"> • Clock was not set. <i>See page 9.</i> • Timer recording programmed and no cassette in VCR.
On-screen menus are in Spanish	<ul style="list-style-type: none"> • Language feature set to IDIOMA. <i>See page 9.</i>
Time counter disappears while searching	<ul style="list-style-type: none"> • This is normal. <i>Details are on page 14.</i>

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, 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 charge.

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.

Index

- 3CH.4 Switch.....3-6,7,25
- Accessories, Included.....7
- Add or Remove Channels
 - from Memory.....8
- ADD/REMOVE CHANNELS Menu.....8
- Antenna Connections.....2,3
- AUDIO IN1 Jacks.....6,22,25
- AUDIO OUT1 Jacks.....3-6,22,25
- AUTO PLAY Feature.....12,13
- AUTO-SEARCH CHANNELS
 - Feature.....8
- Automatic Tracking.....16
- Back Panel.....25
- Basic Recording Guide.....17
- Batteries, Inserting in Remote.....7
- Buttons, Remote Control.....10-11
- CABLE BOX SETUP Menu.....19
- Cable Box Viewing Channel.....19
- Cable System With Cable
 - Box Connections.....2,4,5
- Cable System Without Cable
 - Box Connections.....2,3
- Card, Registration.....i
- CHAN Buttons.....8,9,10
- CHANNEL Buttons.....24
- CHANNEL SETUP Menu.....8,19
- Checking Timer Recordings.....21
- Checks, Trouble.....26-27
- Choosing a Hookup.....2
- Cleaning the VCR.....23
- CLEAR Button.....9,10,14,15,19,20-21
- Clearing Timer Programs.....21
- Commercial Scan.....15
- Compatible Remotes.....22
- Connections.....2-6
 - Antenna.....2-3
 - Audio/Video Jacks.....2,3-6
 - Cable-TV.....2,3-5
 - Two VCRs.....6
- Contents.....1
- Copying Tape, Connections.....6
- Copying Tapes.....22
- Date and Time, Setting.....9
- Design Specifications.....23
- DISPLAY Button.....10,14,15
- Display Panel.....25
- Displays, On-Screen.....14
- Editing Tapes.....22
- F. ADV Button.....10,16
- FF (Fast Forward)
 - Button.....10,13,14,15
- FWD (Fast Forward)
 - Button.....22,24
- First-Time Operation.....7-9
- Frame Advance.....16
- Front Panel.....24
- Hookups
 - Antenna.....2-3
 - Audio/Video Jacks.....2,3-6
 - Cable-TV.....2,3-5
 - Two VCRs.....6
- Hookup, Choosing.....2
- IN FROM ANT. Connector.....3-5,25
- INPUT Button.....10,19,20-21
- LANGUAGE MENU.....9
- Limited Warranty.....28
- Line Input, Recording From.....21
- Location of Controls
 - Remote Control.....10-11
 - VCR Back Panel.....25
 - VCR Display Panel.....25
 - VCR Front Panel.....24
- LP Speed.....17
- Manual Tracking.....16
- MENU Button.....9,10,13,19,20-21
- Number Buttons.....10-11
- On-Screen Displays.....14
- Express Recording.....18
- Operating Instructions
 - Copying Tapes.....22
 - Express Recording.....18
 - Playing a Tape.....12
 - Recording a Program.....17
 - Timer Recording.....20
- Operation, First Time.....7-9
- OUT TO TV Connector.....3-5,25
- PAUSE Button.....10-11,16,17,22
- Pause for Stop Action.....16
- Pause, Recording.....17
- PLAY Button.....10-11,12,13,15,16,17,22,24
- Playback Features.....13-16
- Playing a Tape.....12-16
- POWER Button.....10-11,12,18,21,24
- POWER Indicator.....7,12,25
- PREV CH (Previous Channel)
 - Button.....10-11
- Problems, Solving.....26-27
- Product Registration.....i
- REC Button.....10-11,17,18,22
- RECORD Button.....17,18,22,24
- RECORD Indicator.....17,18,25
- Recording
 - Basic.....18
 - From Another VCR.....22
 - One Program While
 - Watching Another.....17
 - Express (XPR).....18
 - Pause.....17
 - Speeds.....17
 - Timer.....20-21
 - Types Of.....17
- Recording.....17-22
- Recording Features.....17
- Recording Pause.....17
- Registration Card.....i
- REMOTE CONTROL VCR1/
 - VCR2 Feature.....22
- Remote Control.....10-11
- Remote Sensor.....24
- Remove or Add Channels
 - From Memory.....8
- REMOVE/ADD CHANNEL Menu.....8
- Review Programs Feature.....21
- REW (Rewind)
 - Button.....10-11,13,15,22,24
- Safety Precautions.....i
- Safety Tab.....13
- SEARCH Button.....10-11,15
- Selecting a Cable Box
 - Viewing Channel.....19
- Sensor, Remote.....24
- Set VCR Clock Feature.....9
- Setting a Timer Recording.....20
- Setting the Language.....9
- Setting Up the VCR.....7-9
- SETUP OPTIONS.....13,22
- SLOW Button.....10-11,15
- SLP Speed.....17
- Solving Problems.....26-27
- SP Speed.....17
- Specifications.....23
- SPEED Button.....10-11,17,18,20
- Speeds, Recording.....17
- Startup.....7-9
- STOP Button.....10-11,12,17,18,21
- Stop Action Pause.....16
- STOP•EJECT.....12,17,18,21,24
- Stopping a Express Recording.....18
- Stopping Timer Programs.....21
- Table of Contents.....1
- Time and Date, Setting.....9
- Time Counter.....14-15
- Timer Programs
 - Checking and Clearing.....21
 - From VCR Line Input.....21
 - Indicator.....18,20,25
 - Setting.....20
 - Stopping.....21
- TRACKING Button.....10-11,13,15,16,24
- Tracking, Automatic and Manual.....16
- Trouble Checks.....26-27
- TUNING MODE Feature.....8
- Turn On TV.....7
- Turn On VCR.....7
- TV•VCR Button.....3-6,9,10-11,17,24
- Types of Recording.....17
- Using This Manual.....1
- VCR Controls.....24
- VCR Indicator.....9,12,17,25
- VCR MAIN
 - MENU.....8,9,12,13,19,20-21,22
- VCR, Cleaning.....23
- VCR, Turn On.....7
- VCR1/VCR2 Feature.....22
- VCRs Memory, Placing Channels.....8
- VCRs, Connecting for Tape
 - Copying.....6
- VIDEO IN1 Jacks.....6,25
- VIDEO OUT1 Jacks.....3-6,25
- Warranty, Limited.....28
- Watching One Channel While
 - Recording Another.....17
- ZERO SEARCH Menu.....15
- Zero Search Feature.....15

For your nearest Home
Entertainment Dealer
or Authorized Servicenter
call toll-free in the U.S.A.

1-800-336-1900

Canadian Consumers –
Your toll free numbers are:

English: 1-800-522-0338

French: 1-800-522-0445

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

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.

 **THOMSON CONSUMER ELECTRONICS**
10330 North Meridian Street
Indianapolis, IN 46290-1024

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