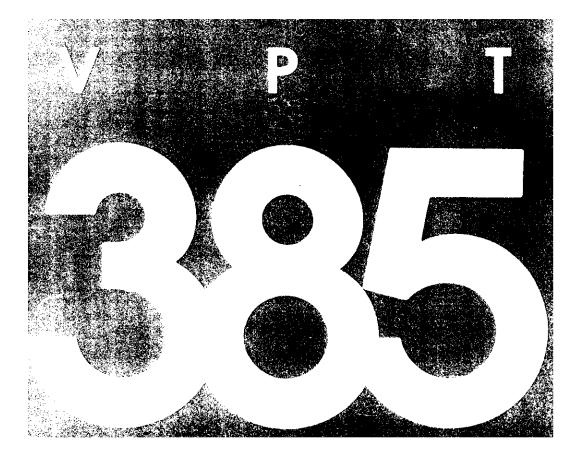


VideoCassette Recorder

Owner's Manual



Download from Www.Somanuals.com. All Manuals Search And Download.

Warranty Registration

No other RCA Video Cassette Recorder has the same serial number as yours. It is important that you record the number and other vital information here, in case your VCR is stolen or in case you need a complete description for any other reason. You will find the model and serial numbers on the back of the VCR. You will also find both numbers recorded on your registration form.

 Purchase Date ______

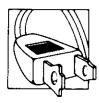
 Dealer ______

Model: _____ Serial Number .

VCR registration is very important so that you can be contacted should there be a safety inspection, modification, or product recall under applicable laws or regulations or otherwise. The dealer who sold you the VCR should have registered it and given you a copy of the registration form.

If your dealer did not give you a copy of the registration, contact him promptly and ask for it. You must be able to show your registration or evidence of purchase date to any RCA Authorized VCR Servicenter or the RCA Service Company to receive warranty parts and service. We suggest you attach your sales slip and warranty registration to this booklet and keep them in a safe place for future reference.

Safety Precautions



Your VCR operates on 120 volts, 60 Hz (normal household current) and has a polarized plug. Because one blade of the plug is wider than the other, the plug fits in the wall socket only one way. Do not defeat the safety feature of this plug. If you need an extension, use a polarized cord.

Caution: To prevent electric shock do not use the polarized plug on this Video Cassette Recorder with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.

Mise en garde: Pour prévenir les chocs électriques, ne pas utiliser la fiche polarisée de cet appareil avec une rallonge, une prise de courant ou une autre sortie, à moins que les lames puissent être insérées à fond sans qu'aucune partie soit laissée à découvert.

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

- Illustrated below is the label on the back of your Video Cassette Recorder.



The symbol of a lightning flash within a triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

An exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the product.

Caution: To reduce the risk of electric shock, do not remove the cover or back. No user-serviceable parts are inside. If you spill liquid on the VCR, disconnect the power cord to prevent possible fire or shock hazard and consult authorized service personnel. Moisture can damage internal parts. Refer all service to RCA VCR Authorized Servicenter personnel or the RCA Service Company only.

Caution: Maintain electrical safety. Powerline-operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

Note to Cable TV Installer:

This reminder is provided to call your attention to Article 820-22 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that 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.

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

Using This Manual

Congratulations on your choice of an RCA VCR. You have selected a high-quality, precision-engineered instrument designed to give you years of video and audio enjoyment.

To get the best performance from your new VCR, it is important that you carefully read and follow the operating instructions in this manual in the sequence in which they are presented.

Should you experience a problem, please follow the "Trouble Checks" near the end of this manual. The warranty on the back cover describes what RCA will do for you should your new VCR need service during the warranty period. It also tells you how and from whom you should request service.

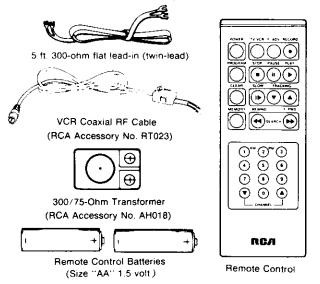
Contents

Warranty Registration Inside Front Cover
Safety Precautions Inside Front Cover
Installation
• Unpacking, Choosing Location 2
• General Installation Information 2
• Antenna Connections 3-4
• Cable-TV Connections 5-6
• TV Monitor/Receiver Connections
What Your VCR Will Do 8
Video Cassettes
Basic Operation
• Basic Operating Controls and Displays 10
• Inserting/Removing Cassettes 10
• Turning on Your VCR for the First Time 11
• Programming Active Channels into VCR's
Tuner
• Deleting Channels from the Scan List 11
• Adding Channels to the Scan List
• Setting TV to VCR Channel 12
• Setting the VCR/TV Switch 12
• Simplified Installation Checklist 12
Remote Control
Battery Installation 13
Setting the Clock 14
First Recording and Playback
Operating Controls (Detailed) 16-17
Special Effects and Features
• Pause During Recording 17
• Pause for Stop-Action Playback 17
• Frame Advance 17
• Slow Motion 18
• Picture Search
• Tape Counter 18
• Memory Stop 18
• Tracking Control 18
Quick Reference Operating Guides
• Normal TV Viewing 19
• Recording with TV Off 19
• Recording and Viewing the Same Program 19
• Recording and Viewing Different Programs 20
• Basic Playback
• Recording from Another VCR 21
• Camera Recording 22
Express Recording 23
Programming the Timer 24-25
Timer Recording
Alternate Remote Control Units 27
Cabinet Cleaning 28
Trouble Checks
Index (Alphabetical) 29
Specifications Back Cover
Warranty Back Cover
· · · · · · · · · · · · · · · · · · ·

Unpacking

When you unpack your new VCR, be sure you have removed all the accessories and information sheets. We recommend that you save the packing materials and box in case you ever need to ship or store your VCR.

The accessories supplied for connecting your antenna, VCR, and TV set are shown here. The remote control unit and its batteries are also packed in with the VCR.



Location

• Choose a location that is convenient, but away from sources of heat such as direct sunlight and heating units.

- If the VCR is to be installed in an equipment rack or cabinet with other devices, be sure that there is adequate ventilation at the back and around the sides of the components. The VCR should not be placed on or directly above a stereo amplifier because of the heat that rises from the amplifier.
- Choose a flat surface at least as large as the VCR so that it rests on its mounting feet. It is important that air can pass through the ventilation holes in the bottom of the unit to prevent it from overheating. Do not operate the VCR on a rug or carpet because the pile will obstruct these holes.

Some TV sets may cause interference in home VCR's. To avoid interference and get the best performance from your VCR, follow these guidelines:

- When placing the VCR under a TV, keep at least 18 inches between the bottom of the TV and the top of the VCR.
- If interference is present when the VCR is used on top of the TV or at the 18-inch distance below the set, move the VCR to a position beside the TV.
- If moving the VCR does not solve the interference problem, try plugging the VCR into a different wall socket.
- If interference continues after all the above, call your dealer or service representative.

You may find the following booklet prepared by the Federal Communications Commission helpful: Interference Handbook

This booklet is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402

General Installation Information

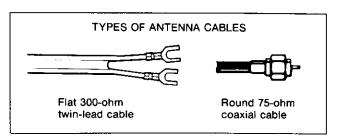
- IMPORTANT

There are two basic steps for connecting your new VCR to your present TV and antenna(s) or cable-TV. The first step is to disconnect the antenna(s) or cable-TV from the TV and reconnect it to the VCR. The second step is to connect the VCR to the TV. Be sure you do both steps.

Since there are many different types of antennas and TV's, there are several ways to make the above connections. Therefore, the instructions have been divided into two sets, one set for connections to your own antenna(s) on pages 3 and 4, and another set for connections to a cable-TV system on pages 5 and 6. If you have a TV monitor/receiver, you may want to make the additional connections described on page 7.

The antenna is the "signal receiver" that picks up TV broadcasts. Some modern antennas receive both VHF (Very High Frequency) channels 2 through 13, and UHF (Ultra High Frequency) channels 14 through 83. Some antennas are designed only for VHF reception and others are designed only for UHF reception.





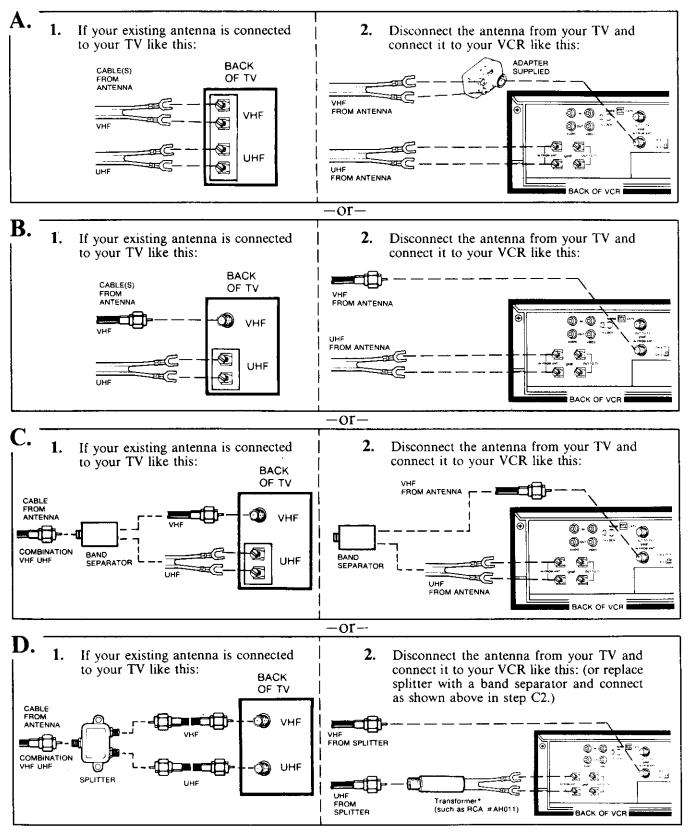
Signals from your antenna are conducted through flat "twin-lead" cable, or through round "coaxial" cable.

Cable-TV (CATV) supplies television signals directly by round cable without the need for a home antenna. Cable-TV delivers both VHF and UHF channels and programs not available from a home antenna.

In most situations you will get better picture quality if you use an outdoor antenna or connect your TV and VCR to a cable-TV system. If this is not possible, use a good quality indoor antenna. Your indoor antenna should have separate leads for VHF and UHF if you are in an area with both VHF and UHF stations – or you may use separate VHF and UHF indoor antennas.

Disconnect Existing Antenna from TV and Connect it to VCR.

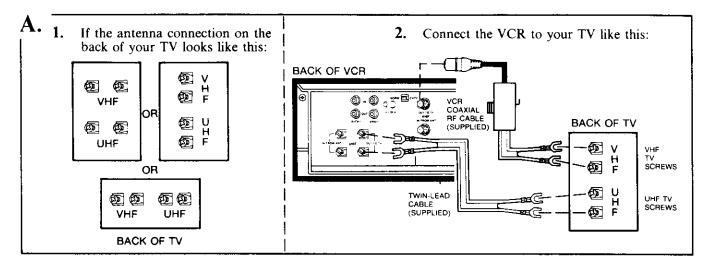
• (Your antenna connections will probably resemble those in one of the diagrams on this page.)

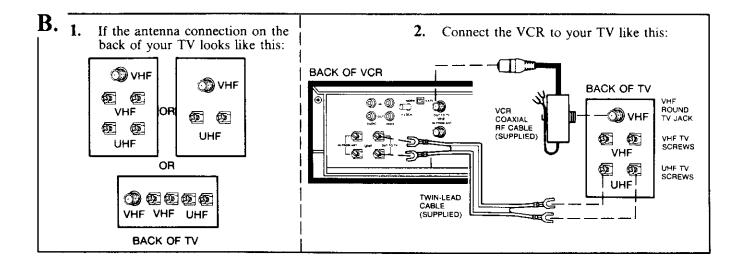


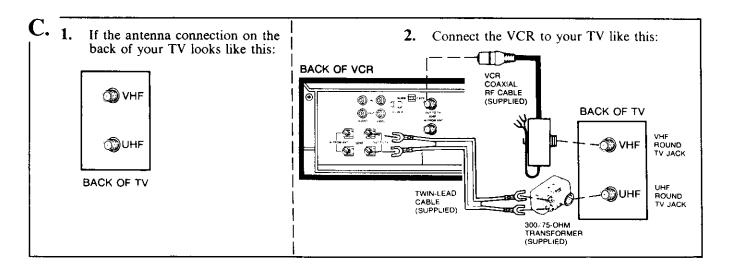
*Optional accessory available from your RCA dealer or electronic supply store.

7 Connect VCR to back of TV.

4. (The antenna connections on the back of your TV will probably resemble those in one of the diagrams below.)







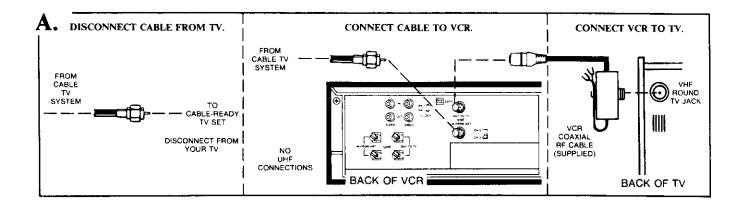
Cable-TV Connections

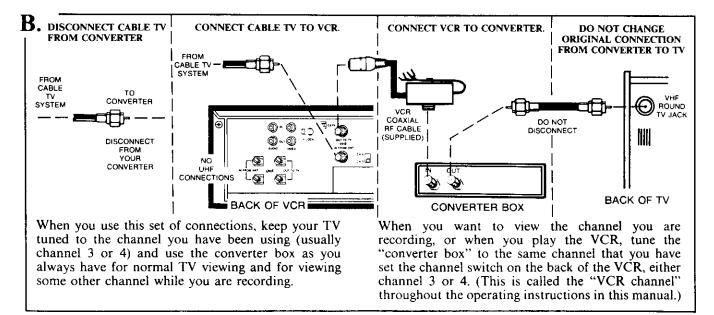
Your VCR is designed to receive unscrambled cable channels 1 through 48 plus 98 and 99 without a "converter box". (These channels are sometimes designated 2 through 13, A through W, W+1 through W+12, A-2, A-1 and A-8.)

IF YOUR TV IS:	AND YOUR CABLE-TV SYSTEM HAS:	THEN USE DIAGRAM(S):
	no scrambled channels	A
cable-compatible	some or all channels scrambled	D
not	no scrambled channels	B or C
cable-compatible	some or all channels scrambled	D

The manner in which you interconnect your VCR and TV with a cable-TV system is dependent primarily on (a) whether your TV is cable-compatible and (b) whether any channels on your cable-TV system are scrambled. Use the Selection Chart at the left to determine which one of the following four Cable-TV connection diagrams (A-D) you should use.

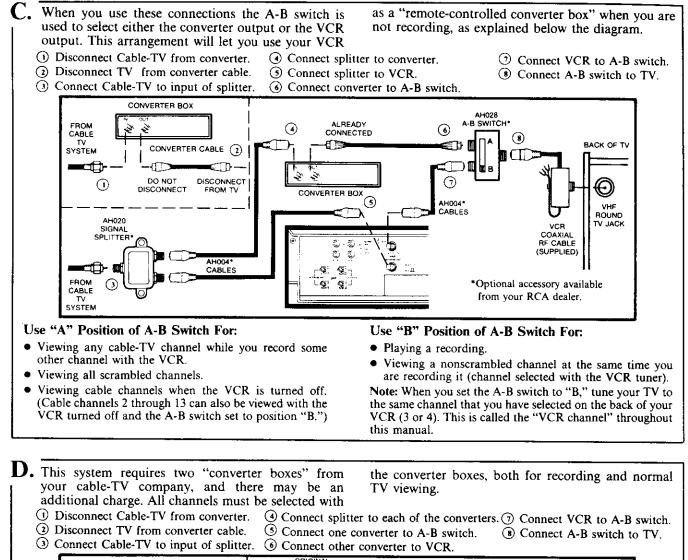
Note: If you wish to also record one or more local UHF channels that your Cable-TV system does not offer, first follow the appropriate cable-TV connection instructions described below, then connect your UHF antenna to your VCR as described in the section titled "Antenna Connections".

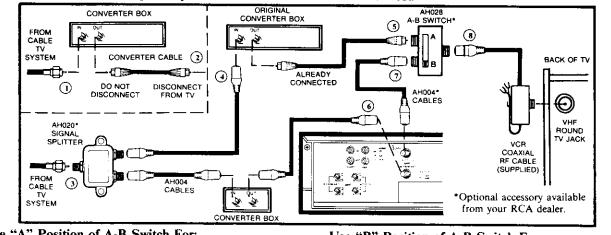




(Continued on next page)

Cable-TV Connections (continued)





Use "A" Position of A-B Switch For:

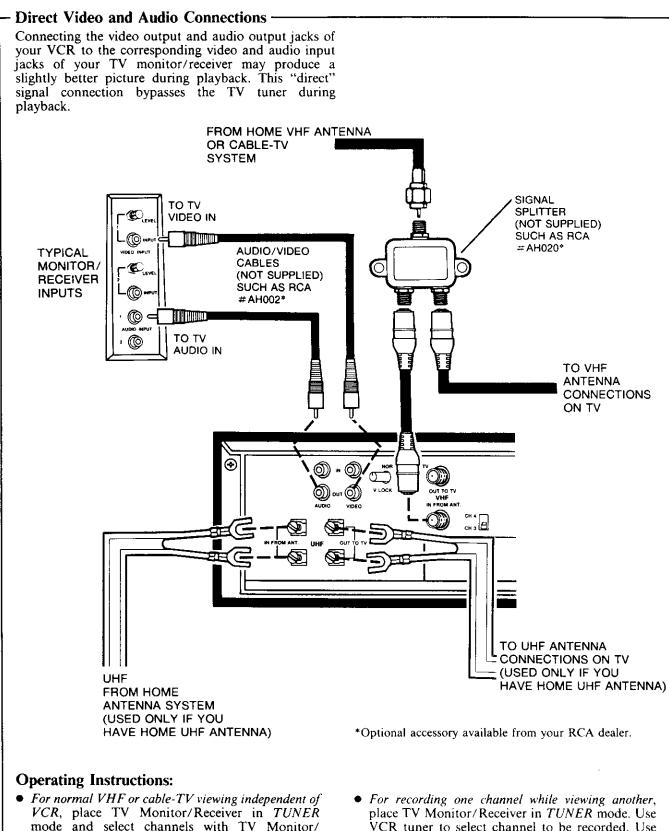
- Viewing any cable-TV channel while you record some other channel with the VCR.
- Viewing any cable-TV channel when your VCR is turned off.

Use "B" Position of A-B Switch For:

- Playing a recording.
- Viewing any channel at the same time you are recording it. Select the channel with the converter that is connected to the VCR, and tune the VCR to the output channel of the converter (usually 3 or 4).

Note: When you set the A-B switch to "B," tune your TV to the same channel that you have selected on the back of your VCR (3 or 4). This is called the "VCR channel" throughout this manual.

TV Monitor/Receiver Connections



- Receiver tuner.
 For viewing of channel being recorded, place TV Monitor/Receiver in VIDEO INPUT mode. Use VCR tuner to select channel.
- VCR tuner to select channel to be recorded. Use TV Monitor/Receiver tuner to select channel to be viewed.
- For playback of recorded program, place TV Monitor/Receiver in VIDEO INPUT mode.

Broadcast/Cable Frequency-Synthesis Tuner

Provides accurate selection of VHF/UHF or up to 50 unscrambled cable channels.* Quartz-controlled electronics automatically lock the system onto the signal, eliminating the need for fine tuning. Bright, easyto-read channel display.

*Local systems may vary; check your cable company's compatibility requirements.

Infrared Remote Control

Provides wireless VCR control from the comfort of an easy chair. It controls the major functions of the VCR, plus Slow Motion, Frame Advance, Slow-Motion Tracking, Memory Stop, and Clock/Timer Programming. This VCR can also be operated with an RCA Digital Command remote control and integrated into a unified RCA audio/video system.

Remote Programming

With RCA's advanced remote control, all VCR timer programming can be done using the remote control. At the touch of a button, simple easy-to-follow prompts appear on the VCR's display to guide the viewer through each programming sequence. Built-in computer memory can be preset up to a year in advance to record as many as four programs automatically. Backup circuitry retains programming instructions to prevent VCR memory loss in case of brief power interruptions.

Express Recording (XPR)

XPR lets you record for up to four hours without programming the timer. Simply select the channel and the starting time (immediately or up to 24 hours delayed start) and select the length of time you wish to record. The rest is automatic.

Conventional Playback

Your VCR uses the standard VHS recording system so that pre-recorded VHS tapes and tapes recorded on any other VHS-type VCR can also be played. Your VCR will play VHS cassettes recorded at any of the three standard speeds. It automatically selects the same speed for playback that was used for recording the cassette. By using the electronic tape counter and the *FAST*-*FORWARD* and *REWIND* controls, you can "cue" to any starting point on the tape before you begin playback.

Auto Programming

Preset available channels into VCR's electronic scan memory at the touch of a single button. Eliminates cumbersome manual programming steps. After automatic programming, channels can be selected by remote control scanning – either up or down. *ADD* and *ERASE* buttons also are included for tailoring memory scan list to personal preference.

Picture Search

The FAST-FORWARD and REWIND buttons can be used for "Picture Search" when you play a tape. When you press and hold one of these buttons the playing speed is increased so that you can quickly locate the

picture you want to view. Normal playing speed resumes and sound is restored when you release the button. A picture is displayed when you search a tape recorded at any speed, but quality is best for tapes recorded at SLP.

Pause - Stop Action - Frame Advance

Pressing the *PAUSE* button stops the tape's forward motion for "stop-action" viewing during playback, or to eliminate unwanted material when you are recording. After you have stopped the action during playback, the *FRAME ADVANCE* button on the remote control lets you advance the tape one frame at a time so that you can see all the motion details. Stop-action and frame advance are designed for use at the SLP speed. They may be used on tapes recorded at other speeds, but the picture quality will not be as good as that at SLP.

Slow Motion

Press SLOW on the remote unit or press PLAY during play/pause to change from normal playing speed to slow motion. The PLAY button will restore normal playing speed. Slow Motion is designed for use at the SLP speed. It may be used on tapes recorded at other speeds, but the picture quality will not be as good as that at SLP.

Memory Stop

When the tape counter is displayed instead of time, fastforward and rewind will stop when the counter reads 0000. By resetting the counter to 0000 at the desired point on the tape, you can stop at this point for repeated viewing of a certain scene.

Automatic Rewind

Your VCR automatically rewinds and then stops when it comes to the end of the tape. To avoid accidental erasure during Unattended Recording and Express Recording, the VCR stops at the end of the tape but does not rewind.

Power Off from Rewind

You can turn off the power during rewind, and the VCR will finish rewinding and turn off automatically.

Automatic Play/Power On

If the VCR is off, it will turn on automatically when you insert a cassette.

When you insert a cassette with the safety tab removed, the VCR will automatically turn on and start playing the tape.

VHS HQ Picture Quality

This VCR incorporates VHS HQ (High Quality) circuitry for improved picture quality. It is fully compatible with earlier VHS VCRs.

Fluorescent Function Displays

Vivid, easy-to-read graphic displays show when VCR is in "Play," "Record," "Fast Forward" or "Rewind" modes. Includes readouts for channel and tape speed, as well as time/day (or tape counter to indicate relative position of programs on cassette). Counter memory automatically stops tape at desired point during rewind or fast forward. RCA recommends that RCA cassettes be used with this unit. The tape in RCA cassettes is of high-quality formulation, intended for use with multi-speed VHS video cassette recorders. It has been manufactured to RCA's critical specifications for excellent performance with RCA VCR's. Use of tape not meeting these specifications could considerably reduce the performance of your VCR.

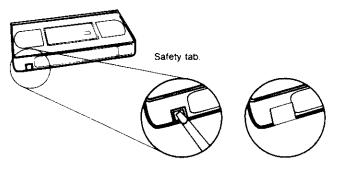
Use of poor quality tapes or tapes that have been damaged or mishandled can contaminate the VCR heads. This can cause a snowy picture or a missing picture during playback. Because RCA has no control over the type of tape purchased or rented by consumers, head cleaning is not covered by RCA's warranty. It is considered normal maintenance.

Playing a new RCA tape for approximately 30 minutes often will clean the VCR heads and improve your picture. If a snowy picture or missing picture condition persists, consider the use of a chemical non-abrasive head cleaning tape (RCA Stock No. AV009). It is available from your dealer and many electronic supply stores. Be sure to follow the directions with the head cleaning kit carefully. Improper use of a head cleaner may damage your VCR.



Erase Protection

To prevent erasing a recording you want to keep, remove the safety tab from the back of the cassette as shown in the illustration. Recording is impossible when this tab is removed. To record again on a cassette that has the tab removed, simply cover the hole with vinyl tape.



To prevent erasure, break off the tab. To record again, cover the hole with vinyl tape.

Cassette Playing Times and Speeds

The playing times and counter readings below are approximate. Also, it is assumed the counter is set to 0000 at the start of the tape.

	T-60 CASSE	ITE (VK125)	
SPEED	SP	LP	SLP
	Counter	Counter	Counter
Time	Reading	Reading	Reading
1 hour	2080 (end)	1120	760 Ŭ
2 hours		2080 (end)	1460
3 hours			2080 (end)
	T-120 CASSE	TTE (VK250)	
SPEED	SP	LP	SLP
	Counter	Counter	Counter
Time	Reading	Reading	Reading
i hour	3520	2100	1520
2 hours	5680 (end)	3520	2600
3 hours		4660	3520
4 hours		5680 (end)	4300
5 hours			5000
6 hours			5680 (end)
	T-160 CASSE	TTE (VK330)	
SPEED	SP	LP	SLP
	Counter	Counter	Counter
Time	Reading	Reading	Reading
l hour	3740	2160	1560
2 hours	6120	3740	2740
3 hours		5020	3740
4 hours		6120	4640
5 hours			5400
6 hours			6120
7 hours			6760
8 hours			7420 (end)

Recording Speed

This information will help you decide which tape speed to use when recording.

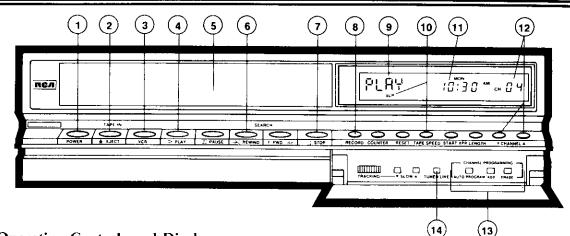
- SP: Standard Play uses the most tape. Video recorded at this speed has the least "picture noise" (snow) in normal playback. Pre-recorded tapes use SP for this reason and also because all VHS recorders have this speed.
- LP: Long Play uses one-half as much tape as SP. This speed is provided primarily for playing tapes recorded on older machines that do not have SLP.
- SLP: Super Long Play uses one-third as much tape as SP. SLP has slightly more "picture noise" than LP in normal playback (which may not be noticeable). Your VCR's special effects (search, stop action, slow motion, and frame advance) are designed for optimum performance at the SLP speed.

Cassette Care and Storage

Follow these directions for continued high-quality performance from your cassettes.

- When you are finished with a cassette, rewind it and remove it from the VCR.
- Never attempt to force open the cassette door.
- Store cassettes vertically in their protective boxes at normal room temperatures. Avoid extreme heat and humidity. Extreme heat can warp the cassette or cause the tape to stretch excessively.
- Be especially careful to keep dust from entering the cassette and the VCR mechanism. All dust is abrasive and it will cause excessive wear of both the tape and the VCR's recording/playback heads.

Basic Operation

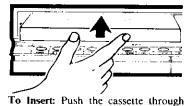


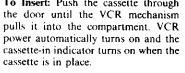
Basic Operating Controls and Displays

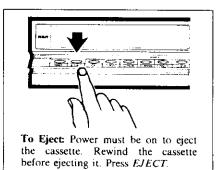
Now that you have connected your VCR to your TV and antenna or cable-TV system, you are ready to turn it on. You don't need to know all the details about the controls and display before you begin using your new VCR, so only those you will use for basic recording and playback are discussed here. (Additional information about the controls is on page 16.)

After you have read about the basic control functions on this page, turn on your VCR and check the installation.

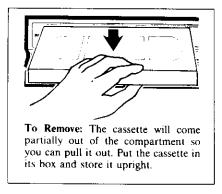
- (1) **POWER:** Turns the VCR on and off. (If the VCR is off, inserting a cassette will automatically turn it on).
- (2) *EJECT:* Ejects the cassette from the VCR. The light above the *EJECT* button is on when a cassette is in place.
- (3) VCR: (VCR/TV Switch) Selects the signal source that is fed to your TV. When the light above the button is off, your TV receives signals from your VHF antenna or from the Cable-TV system as they did before you hooked up your VCR. When the light is on, signals come only from the VCR tuner or the tape that is playing. (This switch is called the "VCR/TV switch" in this manual to avoid confusion with the VCR itself.)
- (4) *PLAY*: Starts playback. If you insert a cassette with the tab removed, the tape will automatically play.
- (5) CASSETTE COMPARTMENT: Push the cassette through the door to load it. The light above the EJECT button will light when tape is inserted.
- **Inserting and Removing Cassettes**







- (6) *REWIND:* Rewinds the tape when the VCR is stopped.
- (7) STOP: Stops whatever the VCR is doing (record, playback, rewind, or fast forward).
- (8) **RECORD:** Press RECORD to begin recording.
- (9) STATUS DISPLAY: Tells what the VCR is doing: PLAY for playback, Search or Slow Motion; REC for record; REW for rewind; FF for fast forward; blinking PLAY for Play/Pause or Frame Advance; blinking REC for Record/Pause. This area is blank at other times.
- (10) TAPE SPEED and indicators: Press the button to change recording speed. The lighted indicator tells the tape speed. (Use "SLP" for normal recording.)
- (1) *TIME DISPLAY:* The time is normally shown here. If the clock has stopped, due to a power interruption, you will see "--:--" in this area.
- CHANNEL selector buttons and display: After channels are programmed, ▼ selects the next lower channel and ▲ selects the next higher channel. The channel number appears in the display.
- (13) CHANNEL PROGRAMMING: Explained on page 11.
- (14) TUNER/LINE: Be sure it is set to TUNER for recording TV programs. LINE is for recording from a camera or another VCR. The LINE light is off when the switch is set to TUNER.



Turning on Your VCR for the First Time-

When you have finished connecting the cables to your antenna and TV, plug in the VCR's power cord and press *POWER*. The light above the *STOP* button should come on. If it flashes, too much moisture has collected inside the unit for it to operate. Leave the VCR turned on until the internal heat dries it and the light stops flashing. Proceed below when the light above the *STOP* button is on and not flashing.

Programming Active Channels into VCR's-Tuner

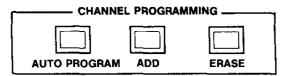
The AUTO PROGRAM (Automatic Programming) button makes it easy and convenient to program TV stations into the VCR's scan list. The scan list is the list of channels that your VCR tuner stops on when you press the CHANNEL \blacktriangle or CHANNEL \blacktriangledown buttons. The scan list is empty, however, until you program active channels as described below.

Note: You must program the tuner as described below before you can use *CHANNEL* $\blacktriangle/\checkmark$ buttons. Automatic programming is usually a "one-time" procedure, but you will need to repeat it if you move to a location that has different channels, or if power is interrupted for an extended period.

To program active channels:

- 1. Turn on VCR by pressing the POWER button.
- 2. Set the NORM/CATV switch on the back of the VCR to the NORM position if your VCR is connected to a home antenna system. Set the switch to the CATV position if your VCR is connected to a cable-TV system.

Note: Your VCR was shipped from the factory with this switch set to NORM.



- 3. Press and release the AUTO PROGRAM button. • The tuner will automatically cycle through all available channels in the area and place them in the scan list. This takes about a minute. The channel numbers will stop changing when the tuner is finished cycling. Programming is now complete and you can use the CHANNEL ▲/▼ buttons to select channels.
- 4. If you want to delete or add individual channels from the scan list, refer to the instructions at the right.

Deleting Channels from the Scan List-

You may want to have only a few favorite channels in the scan list so you can select them more quickly with the *CHANNEL* \blacktriangle and \blacktriangledown buttons. (Use the numbered buttons on the remote control to select channels you deleted from the scan list.) Occasionally Automatic Programming may include a vacant channel in the scan list if there happened to be some sort of "noise" or "stray signal" on the channel when the tuner was programmed. This procedure explains how to delete any unwanted channels from the scan list.

- 1. Use the CHANNEL \blacktriangle or \checkmark button to select the channel that you want to remove from the scan list.
- 2. Press ERASE.
- 3. Repeat the procedure for each channel you want to delete from the scan list,

Adding Channels to the Scan List-

You may have deleted a channel from the scan list and want to put it back. Occasionally Automatic Programming may "miss" an active channel because the signal is very weak or because the channel happened to be "off the air" when the tuner was programmed. Use this procedure to put any channel in the scan list.

- 1. Use the digit (0-9) buttons on the hand unit to select the channel you want to add to the scan list.
- 2. Press ADD.
- 3. Repeat the procedure for each channel you want to add to the scan list.

Note: You can add the VCR's video input to the scan list, if you so desire. Press "91" on the remote, then press ADD on the VCR. This can be convenient if you use the VCR's video input for another device such as a satellite receiver.

(Continued on next page)

Setting Your TV to the VCR Channel

The "VCR Channel" is the TV channel you use for viewing what the VCR is recording or playing, and for viewing the signal from the VCR tuner when it is stopped. Your TV must be set to this channel, and the light above the VCR/TV switch on your VCR must be on.

Selecting the VCR channel is normally a one-time procedure, since there is little reason ever to change it. Proceed as follows:

- 1. Be sure the *TUNER/LINE* switch behind the auxiliary control door is set to *TUNER*.
- 2. Decide whether you want to view your VCR on Channel 3 or Channel 4 of the TV. If one of these channels is vacant in your area, you should use it. Otherwise, pick the channel you view less.
- 3. Set the channel switch on the back of the VCR to whichever channel you have chosen, and then turn on your TV and tune it to the same channel. This is the "VCR channel."

Setting the VCR/TV Switch

- 1. Push the VCR/TV switch so that the indicator light above the switch is on. When the light is on, the VCR is in the "VCR mode" and your TV must be tuned to the VCR Channel (channel 3 or 4). Your TV will then display whatever tape the VCR is playing or whatever channel the VCR is tuned to.
- 2. Push the VCR/TV switch again so that the indicator above the switch is out. When the light is out, the VCR is in the "TV mode" and your TV will work like it did before you connected the VCR.

The VCR/TV switch allows you to record one program with the VCR while you watch another program on your TV. To do this, first put the VCR in the "VCR mode" (light on) and start recording the program. Then press the VCR/TV switch to the "TV mode" (light out) and tune your TV to the other channel you want to watch.

Note: Your VCR automatically switches to the "VCR mode" (VCR light on) when you turn it on with the *POWER* button, and when you start playing a tape.

Simplified Installation Checklist

This simplified checklist will help you quickly determine if you have completed all the basic installation steps.

- [] Make sure your VCR is connected properly as explained on pages 2-7.
- [] Press POWER to turn on VCR.
- [] Set NORM/CATV switch on the back of the VCR to the NORM position if you have a home antenna system. Set the switch to the CATV position if you have cable TV.
- [] Program active channels into VCR's scan list (press AUTO PROGRAM and wait about one minute).
 - J Delete or add individual channels into scan list as desired. (Detailed instructions on page 11.)
- [] Select "VCR Channel". First set the CH3/CH4 switch on the back of the VCR to either channel 3 or 4 and then tune your TV to the same channel. This is called the "VCR Channel".
- [] Learn how to use the VCR/TV switch.
 - When you press the VCR/TV switch and the indicator above the switch turns on, the VCR is in the "VCR mode" and your TV must be tuned to the VCR Channel (channel 3 or 4). Then your TV will display whatever tape the VCR is playing or whatever channel the VCR is tuned to.
 - When the indicator light above the VCR/TV switch is out, the VCR is in the "TV mode" and your TV will work like it did before you connected the VCR.

Before you use the remote control unit supplied with your VCR, install the batteries (instructions below). Several of the remote's buttons do the same things as buttons with the same names on the front of your VCR, and you can use whichever one is more convenient at the moment.

The remote control has additional buttons for controlling some of the VCR's Special Effects and Features, and it is also used for setting the clock and programming the timer.

Since the remote control operates the VCR by infrared light, it is immune to electrical and sound interference. However, you must aim the remote unit directly at the VCR. There cannot be any obstructions between them.

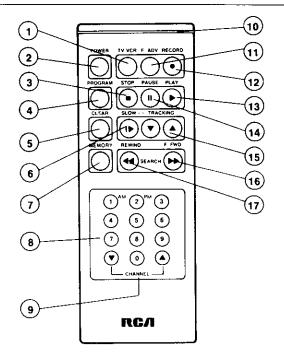
Battery Installation-

The batteries supplied with your remote control are packed separately. To install them in the hand unit:

- 1. Turn the hand unit over and remove the cover of the battery compartment.
- 2. Insert the batteries so that their positive (+) ends contact the positive terminals in the battery compartment. These are marked (+) in the bottom of the compartment.
- 3. Replace the cover.

Replace the batteries when your VCR fails to respond to the remote control. Replacement batteries are widely available. Use size "AA" 1.5 volt cells. Alkaline type batteries are preferred. Good batteries should last about a year in normal service.

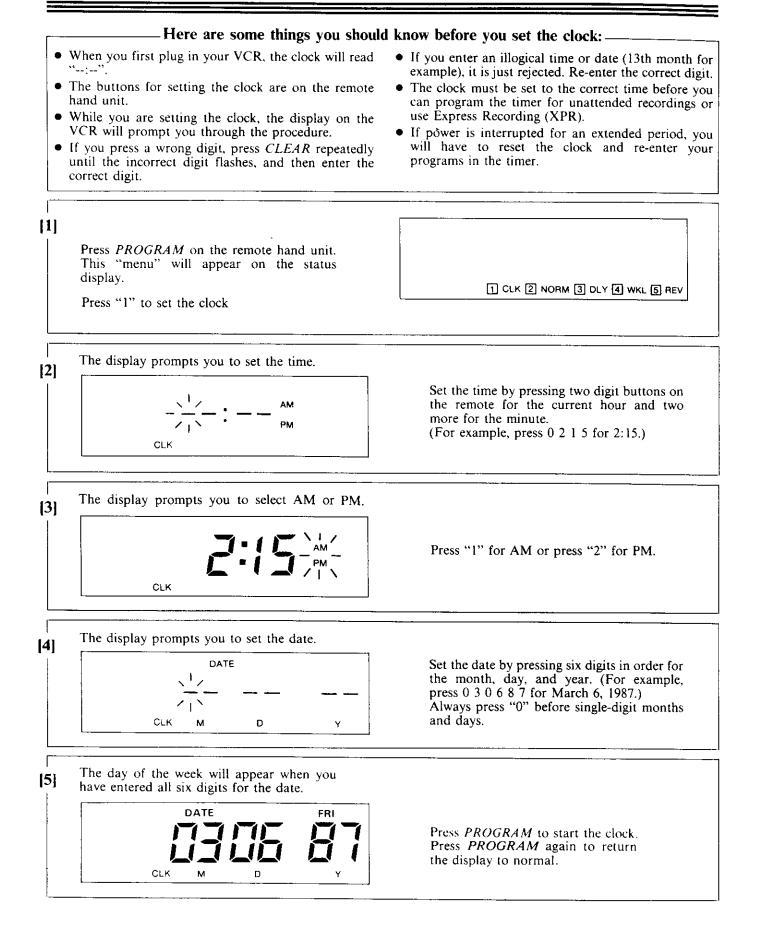
Avoid laying the remote control upside down or placing things on top of it. This could depress the buttons and discharge the batteries. If you are not going to use the hand unit for a month or more, it is wise to remove the batteries to avoid leakage.



- (1) TV VCR: Same as the VCR/TV switch on the VCR.
- (2) **POWER:** Same as **POWER** on the VCR.
- (3) STOP: Same as STOP on the VCR.
- (4) **PROGRAM:** Used for setting the clock and programming the timer.
- (5) CLEAR: Used for setting the clock and programming the timer. Also resets the tape counter to 0000 when the counter is displayed.
- (6) SLOW: Used to switch from normal playback to Slow-Motion play. VCR must be in PLAY when SLOW is pressed. Press PLAY to resume normal playing speed.
- (7) *MEMORY:* Changes VCR display from clock to tape counter or from tape counter to clock.
- (8) NUMBERED BUTTONS: Select any channel (whether or not it is in the Tuner Scan List) by pressing two buttons. (Press 0 and then 8 for channel 8.) The numbered buttons are also used for setting the clock and programming the timer.
- (9) CHANNEL ▲ and ▼: Same as the CHANNEL buttons on the VCR.
- (10) *INDICATOR:* Blinks when the remote sends a command to the VCR.
- (11) F. ADV: (Frame Advance) Advances the picture from frame to frame during stop-action viewing. This is explained on page 17.
- (12) *REC:* Same as *RECORD* on the VCR. (Press *RECORD* to begin recording.)
- (13) PLAY: Same as PLAY on the VCR.
- (14) PAUSE: Same as PAUSE on the VCR.
- (15) SLOW TRACKING ▼ and ▲: If horizontal streaks ("noise bars") appear in the picture during Slow-Motion Playback, press one or the other of these buttons to move the "noise bar" up or down and out of the picture.
- (16) F. FWD/SEARCH: ►► Same as F. FWD/ SEARCH ►► on the VCR.
- (17) *REWIND/SEARCH* ◀◀: Same as *REW/ SEARCH* ◀◀ on the VCR.

Note: Selected models of RCA color TV receivers and monitor/receivers feature hand units that will also remotely control your VCR. See page 27 for details.

Setting the Clock

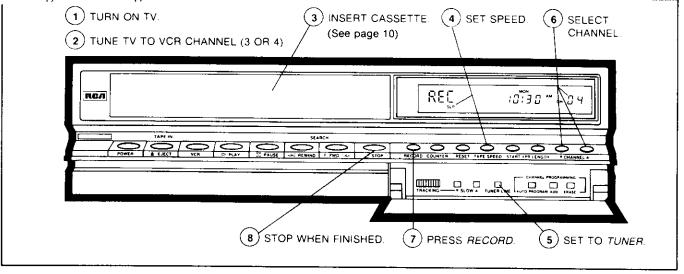


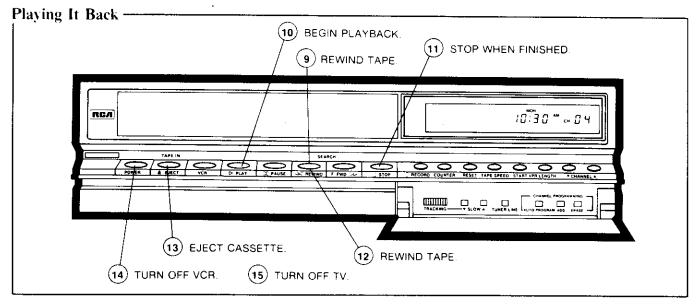
First Recording and Playback

This page gives the basic steps for recording and playback. You should practice them until you can do them without referring to the manual. To save time, we suggest you record for only two or three minutes.

The first drawing shows how to make a recording and the second one shows how to play it back and turn off the VCR. The operating notes at the bottom of the page are keyed to the step numbers for quick reference if you have a problem or need more information.

Making a Recording -





Operating Notes

- (2) The channel switch on the back of the VCR and the channel selector on your TV must be set to the same channel in order to see the picture from the VCR.
- (3) The VCR is automatically turned on when the cassette is inserted. If the light above the *STOP* button flashes, wait until it lights continuously. (This is not a problem with the VCR). A flashing light indicates too much internal moisture is present. The VCR automatically enters playback mode when a cassette without a tab is inserted. Be sure to check its tab before inserting a cassette.
- (4) Normally record at SLP. Recording speeds are compared on page 9.

- (6) It may be necessary to fine tune the TV for best picture and sound. If there is no picture on the TV and no channel numbers in the VCR display, check that the *TUNER/LINE* switch is set to *TUNER*.
- (7) If the cassette without a tab is inserted, the VCR ejects the cassette when the *RECORD* button is pressed.
- (8) If you don't want to play back the tape, skip to Step 12 in the second drawing.
- (12) *REW* appears in the display during rewind. When rewinding is finished this display goes off and the light above the stop button turns on again.

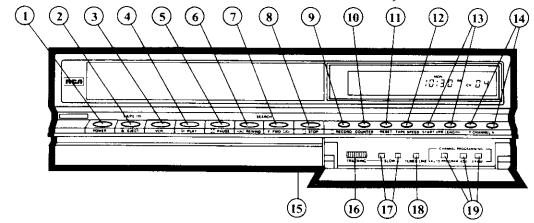
Download from Www.Somanuals.com. All Manuals Search And Download.

Operating Controls (Detailed Descriptions)

The uses of the controls for basic operation are given on page 10. Now that you are familiar with the basic procedure for recording a TV program and playing it back, you are ready to learn the rest of the control functions.

The controls of your VCR are designed so that:

- Accidentally pressing a wrong button will not damage the VCR or the cassette.
- Non-essential buttons are disabled during recording to help you avoid accidental interruptions.
- Operation of the VCR is automatic whenever this is feasible.
- Automatic recording functions (Timer and XPR) will not disturb normal TV viewing.
- If you run out of tape during playback or normal recording, the VCR rewinds it and stops automatically. If tape runs out during Timer or Express Recording, the VCR stops without rewinding.
- Because of these features, the functions of some control buttons depend on the condition of the VCR at the time they are used.



1) **POWER:** When the VCR is turned off, the timer is automatically turned on if it has been programmed. When the VCR is turned on, the timer is automatically turned off. Your VCR will not make a timer recording if it is already turned on at the time the recording is to start.

The *POWER* button operates differently during Timer and Express recording. Press *POWER*, *STOP* in that order to stop the VCR when a timer recording is in progress.

The VCR will stop and turn off if you press the *POWER* button during non-timer Recording, Playback, or Fast Forward. If you press it during rewind, the VCR will continue rewinding until it is finished and then turn off.

- (2) *EJECT:* The *EJECT* button will not operate when the VCR is recording. It will eject the cassette in any other mode of operation.
- 3) VCR: Complete information is on pages 10 and 12.
- 4) *PLAY:* The *PLAY* button is normally used to begin playback when the VCR is stopped. It is also used to switch to slow-motion operation when the VCR is paused during playback for stop-action viewing. Slow Motion and Stop Action are explained on pages 17 and 18. The *PLAY* button is inactive when the VCR is recording.
- (5) *PAUSE:* Pausing during a recording stops the tape so that nothing will be recorded. When you press the *PAUSE* button a second time, recording resumes immediately.

Pausing during playback produces a Stop-Action picture and pressing it again resumes normal playback. REC or PLAY in the display unit flashes during a pause. Additional information about Recording Pause and Stop Action is on the next page.

(6) *REWIND/SEARCH* ◄<: This is the *REWIND* button when the VCR is stopped. Once you have pressed it, the VCR will rewind to the beginning of the tape (or to a counter reading of 0000 if the counter is displayed) unless you press the *STOP* button.

This same button becomes the SEARCH $\triangleleft \triangleleft$ button when the VCR is playing. Picture Search is explained on page 18.

The *REWIND/SEARCH* button is inactive during recording.

(7) F.FWD/SEARCH ►►: This is the FAST FORWARD button when the VCR is stopped. Once you have pressed it, the tape will continue to "fast forward" until you press the STOP button (or to a counter reading of 0000 if the counter is displayed). If you do not press the STOP button, the VCR will "fast forward" to the end of the tape and then automatically rewind to the beginning of the tape and stop. Refer to "Memory Stop" on page 18 for more information.

The FAST FORWARD button is inactive during recording.

This same button becomes the SEARCH $\triangleright \triangleright$

button when the VCR is playing. Picture Search is explained on the next page.

- (8) STOP: The STOP button will stop the normal functions of Record, Play, Rewind and Fast Forward and the Speical-Effects functions described below and next page.
- (9) **RECORD:** Press the RECORD button to start recording when the VCR is stopped.
- (10) COUNTER: Press this button once to turn on the tape counter and press it again to restore the normal clock display. Refer to "Tape Counter" and "Memory Stop" on the next page.
- (11) **RESET:** Resets the "Tape Counter to 0000 when it is displayed.
- (12) *TAPE SPEED:* Push to change tape speed for recording. Tape speed for playback is automatically selected by the VCR. The tape speed is displayed in the status display.

The Special Effects features of your VCR (Stop Action, Picture Search, Frame Advance, and Slow Motion) work best on tapes recorded at the lowest tape speed – Super Long Play (or SLP). Since this speed also uses the least tape, it is generally preferred for all the recording you do.

Special Effects and Features

Pause During Recording

- Press the *PAUSE* button when you are recording to prevent recording short passages of unwanted material.
- Press the *PAUSE* button again when you are ready to resume recording.
- Avoid pausing for more than three or four minutes, because the spinning heads that do the recording are still in contact with the tape and will eventually wear off the active material. This can cause streaks or spots in the picture when you play the worn part of the tape (called dropouts).

Pause for Stop-Action Playback

Press the PAUSE button during playback to stop the action. This lets you examine all the details of the scene, similar to looking at a single frame of a movie film. When you are ready to resume normal playback, press the PAUSE button again.

The following suggestions will help you get the most out of this feature:

• Your VCR is designed to give the best picture when you use stop-action on tapes recorded at SLP. If you expect to use stop-action frequently during playback, a sports event, for instance, be sure to record at SLP speed.

- (13) XPR: Complete information is on page 23.
- (14) CHANNEL: Complete information is on pages 11 and 12.
- (15) **DISPLAY RESET:** Push the switch within the hole located on the bottom of VCR if the indication or operation of the display appears abnormal.
- (16) TRACKING: Refer to "Tracking Control" on the next page.
- (17) SLOW TRACKING: Refer to "Slow Motion" on the next page.
- (18) TUNER/LINE: Selects the program source to be recorded. The TUNER position is used for recording from the VCR's built-in tuner. The LINE position is for recording video and audio connected to the input jacks on the back of the recorder. When the switch is in the LINE position, the indicator light comes on in the display unit and the channel indicator is turned off. Always check that this switch is set to TUNER when you are going to make a timer recording.

You can also select the Line input by remote control, just enter "91." To switch back to Tuner, enter the desired channel.

- (19) CHANNEL PROGRAMMING: Refer to pages 11 and 12.
- The stop-action picture may tend to jump up and down slightly. Adjust the control marked V LOCK on the back of the VCR to reduce this jitter. Once you have made this adjustment, you probably won't have to do it again unless you use stop-action on a tape that was recorded on a different VCR. (A small amount of vertical jitter is normal.)
 - If a "noise bar" appears in the stop action picture, you may need to adjust the "Slow Tracking" control to remove it. This will not normally need readjustment unless you play back a tape recorded on another VCR.
- Using stop-action on a single frame of the picture for a long time can wear the tape, as explained in "Pause During Recording" above. Use STOP instead of PAUSE to interrupt playback for an extended time. The VCR will automatically switch from Pause to Stop after about five minutes.

Frame Advance

• Frame Advance is a special feature that lets you view one Stop-Action "frame" after another. Press *PAUSE* to begin stop-action viewing. Then press *F. ADV* on the remote control each time you want to go on to the next "frame" of the scene. Press *PAUSE* to resume playback at normal speed.

(Continued on next page)

Special Effects and Features (continued)

• Frame Advance is designed for use at the SLP speed. It may be used on tapes recorded at other speeds, but the picture quality will not be as good as that at SLP.

Slow Motion

- If a tape is playing, press *SLOW* on the remote control to begin slow-motion viewing. When you are using Stop-Action viewing (Pause during Play), you can also press *PLAY* to begin Slow Motion. Sound is turned off during slow motion.
- The VCR will automatically switch from Slow Motion to normal play after about five minutes.
- To return to normal viewing speed, press PLAY.
- It is normal to occasionally see some streaks in the picture during slow motion. Use the SLOW TRACKING buttons on the remote control to move them up or down and out of the picture.
- Slow Motion is designed for use at the SLP speed. It may be used on tapes recorded at other speeds, but the picture quality will not be as good as that at SLP.

Picture Search

- The buttons for Rewind and Fast Forward become the Picture-Search buttons when you are playing a tape.
- When you press SEARCH ►► while playing a tape, the VCR plays at a higher speed until you release the button.
- When you press SEARCH **<**, the VCR reverses from the normal direction and plays the tape backward at high speed until you release the button. The sound is turned off during picture search because it would not be understandable at the high speed.
- Expect to see some horizontal lines in the picture when you are searching. The picture will be best for tapes recorded at SLP speed, although it can be viewed from tapes recorded at the other speeds.

Tape Counter

If you always reset the tape counter when you insert a tape, you can note the counter reading at the beginning of each program you record for future reference. The label kit provided with RCA tapes can be used to list programs and counter readings.

- 1. Press *COUNTER* to display the tape counter in place of the time.
- 2. Press RESET to set the counter to 0000.

Memory Stop

- When you press COUNTER to turn on the counter display, you automatically turn on the "Memory Stop" feature. When the counter is displayed, the VCR will stop automatically at 0000 whenever you use *REWIND* or *FAST FORWARD*. If you are rewinding, simply press the *REWIND* button again to continue to the end of the tape.
- If you press FAST FORWARD and the counter never reads 0000 between that point and the end of the tape,

the VCR will continue to the end of the tape, switch to Rewind, and then stop when the counter reads 0000.

- Since you can reset the counter to 0000 at any point on the tape, Memory Stop is convenient for finding the beginning of a recording, or the beginning of a particular segment you want to repeat.
- This is the procedure to use when you are going to start recording somewhere beyond the start of the tape.
 - 1. Turn on the VCR and press *COUNTER* to obtain the counter reading. (Pressing it again returns the clock display).
 - 2. Use *FAST FORWARD* and *STOP* to locate the point where you will begin recording. Then press *RESET* before you begin recording.
 - 3. Press STOP when you are finished recording and then press REWIND. The cassette will rewind to counter reading 0000 and stop.
 - 4. Press *PLAY* to view the segment you have selected, or press *REWIND* to rewind the cassette completely.
- Use this procedure during playback to mark a point to be repeated.
 - 1. Press COUNTER to display the counter.
 - 2. When you see the beginning of the part you want to view several times, use SEARCH ◄◄ to locate a point slightly before the desired scene.
 - 3. Release the SEARCH button to resume normal playback, and press RESET just before the desired scene appears.
 - 4. When you have played to the end of the scene in question, press *STOP* and then *REWIND*. The tape will rewind to the beginning of the scene and stop.
 - 5. Press PLAY to view the scene again.
 - 6. Repeat Steps 4 and 5 as many times as you like.

Tracking Control

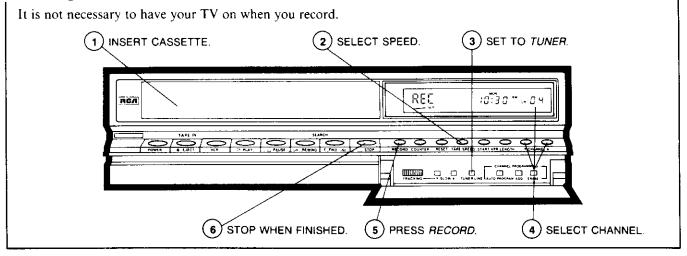
- When you play tapes that were not recorded on the same VCR, streaks may appear in the picture. Adjust the *TRACKING CONTROL*, located behind the auxiliary control door, in either direction to remove them.
- Return it to its center position when the tape has finished playing.
- The *TRACKING CONTROL* only affects tape playback. It has no effect during recordings.

Quick Reference Guides

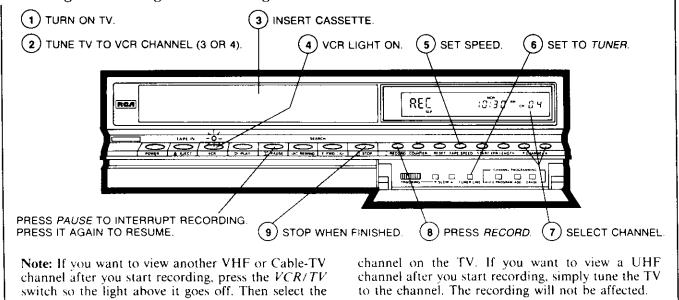
Normal TV Viewing.

Follow the two steps in the drawing for normal TV viewing. To view UHF stations, just tune your TV to the channel, regardless of what the VCR is doing. If you have a TV Monitor/Receiver and the VCR's (1) TURN POWER OFF OR TURN VCR LIGHT OFF. (2) OPERATE TV AS USUAL.

Recording With TV Off -

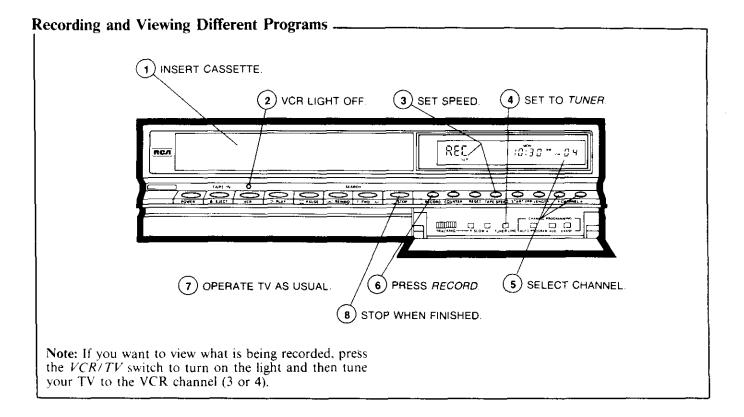


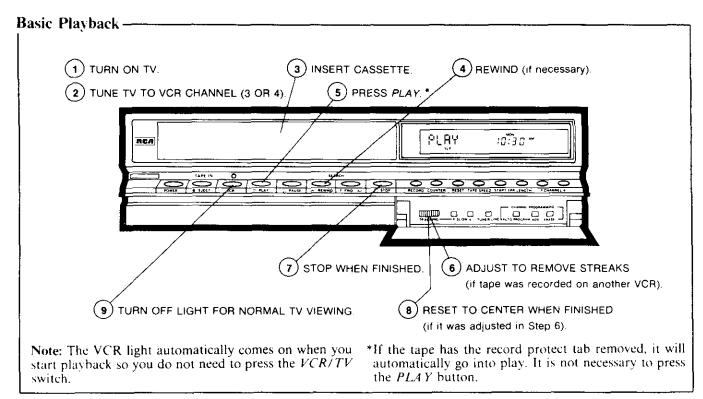
Recording and Viewing the Same Program -



⁽Continued on next page)

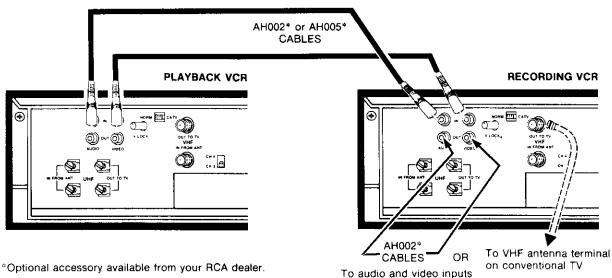
Quick Reference Guides (continued)

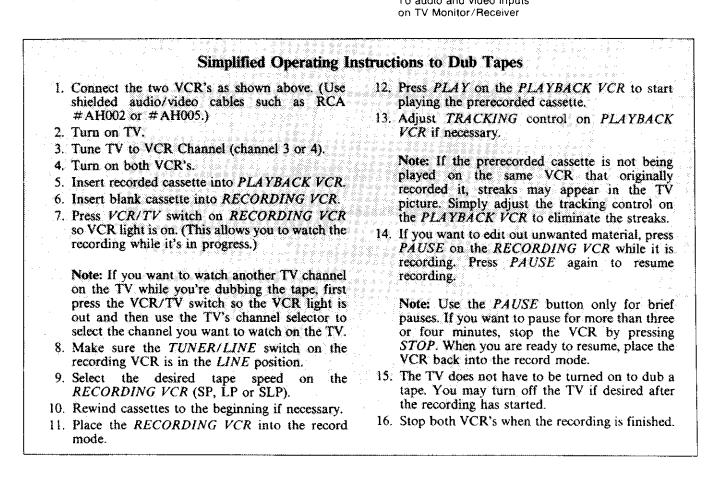




To copy (dub) tapes, connect the two VCR's as shown below. Use shielded audio/video cables (such as RCA #AH002 or #AH005).

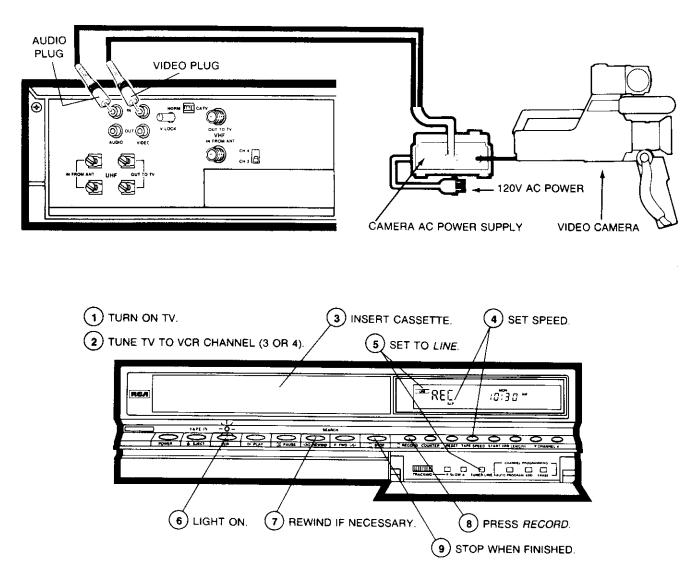
The connections from the recording VCR to your TV are the ones you normally use. It is preferable to play the original tape on the same machine that was used to record it. **CAUTION:** The unauthorized recording of television programs and other materials may infringe the rights of others.





In addition to the camera itself, you will need a **Camera AC Power Supply** (such as RCA Model CPS03 for use with RCA cameras). Plug the camera cable into the power supply and then connect the cables from the power supply to the VCR as the drawing shows. The connections from the VCR to your TV are the same ones you normally use.

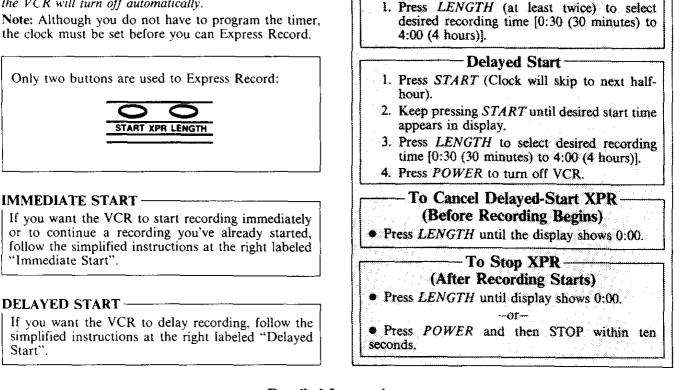
To start recording press *RECORD* on the VCR. Use the *PAUSE* button on the VCR to start and stop recording. If you want to pause for more than three or four minutes, stop the VCR by pressing *STOP*. When you are ready to resume, press *RECORD*.

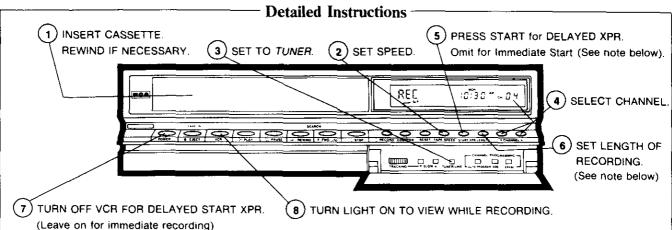


Express Recording

Express Recording (XPR) lets you record up to four hours without programming the timer. It also allows you to start (or continue) recording immediately or to delay recording up to 24 hours. When the recording is finished, the VCR will turn off automatically.

Note: Although you do not have to program the timer, the clock must be set before you can Express Record.





Note for Step(5)

- The first time you press the START button, XPR will appear in the display and the clock will skip to the next half-hour. Examples: If you press the button at 9:35 AM the clock will skip to 10:00 AM; if you press it at 8:15 PM the clock will skip to 8:30 PM.
- Each additional time you press START, the clock will advance another 30 minutes. The time that is displayed is the time when the recording will start.
- After you have set the starting time, you must set LENGTH within 8 seconds. Otherwise, XPR will disappear and the clock will return to the actual time. Then you must reset the start time. (See note (6) for setting *LENGTH*.)

Note for Step(6)

• Press the LENGTH button at least twice. The first keypress only starts the XPR recording; it does not advance the recording length.

Simplified Instructions

- Immediate Start

- Increase the recording time by pressing the LENGTH button additional times. The clock display shows the amount of recording time you have set. [from 0:30 (30 minutes) to 4:00 (4 hours)]
- The time remaining is constantly displayed during XPR. You can extend the time whenever you want by pressing LENGTH.
- When the recording time has expired, the VCR turns off and the clock display returns to current time.

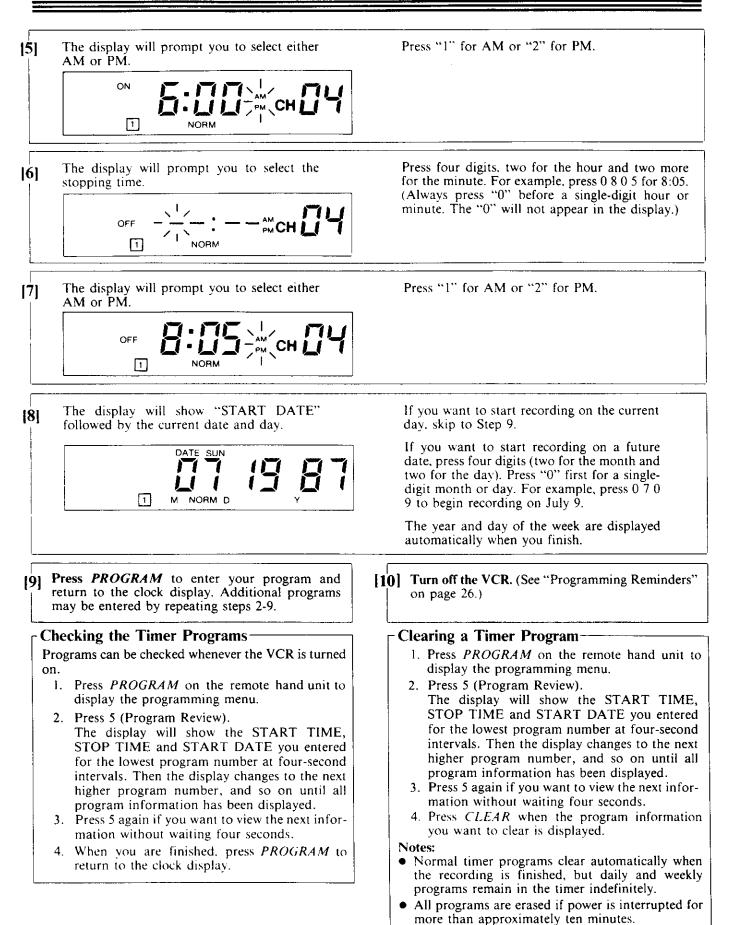
Programming the Timer

The programmable clock/timer permits unattended recording of up to four different TV programs. The Simplified Programming Instructions timer is actually a small computer which will turn on the VCR at the time you select, record for a selected length of time, and then turn off the VCR ... all automatically 1. Press PROGRAM on remote hand unit. without you being there. You can program the timer to do the – following: PROGRAM • Record a program on a single day up to one year away. [NORMAL PROGRAM] • Record a program at the same time Monday through Friday. [DAILY PROGRAM] • Record a program on one certain day of every week. [WEEKLY PROGRAM] Things to know before you start: -• You can program the timer up to one year before the TV program is to be recorded. 2. Watch the status display-it will prompt you • You can correct an error in the program any time through the rest of the programming steps. before the last step by pressing CLEAR repeatedly until the digit to be corrected is flashing. Then 3. Turn off the VCR. enter the correct digit and continue the programming sequence. [1] Make sure the VCR's clock is set to the correct time. The timer cannot record at the right time if the clock is set incorrectly. Reset the clock if necessary. 1 CLK 2 NORM 3 DLY 4 WKL 5 REV Press PROGRAM on the remote hand unit. The programming "menu" appears on the status Press "2" to enter a Normal Program, "3" to enter display. a Daily Program, or "4" to enter a Weekly Program. The display will prompt you to select a Program [2] Number. Four program numbers are available and you can enter different programming instructions in each П 2 NORM 3 4 one. All four program numbers will be flashing because none of them have been used. If the timer Press a digit from 1 to 4 on the remote to select the has been programmed, the number that was used program number you want to program. will stay on instead of flashing. You must clear a program number before the same number can be Program numbers can be selected in any order. used again. See "Clearing a Timer Program" on the next page. The display will prompt you to select a channel The display will prompt you to enter the [3] [4] number. recording start time. 1 NORM CH T NORM

Press two digits for the channel to be recorded. (for example, press 0 4 for channel 4).

Press four digits, two for the hour and two more for the minute. For example, press 0 6 0 0 for 6:00 (Always press "0" before a single-digit hour or minute. The "0" will not appear in the display.)

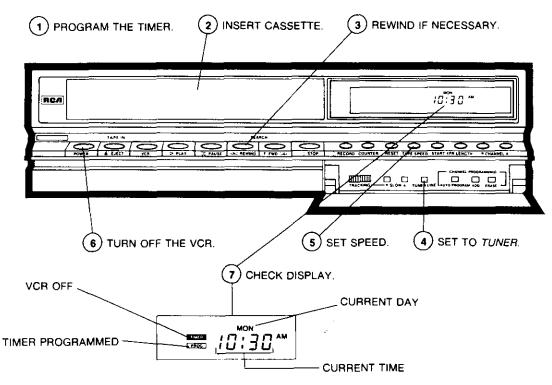
Programming the Timer (continued)



Timer Recording

The information on this page tells you how to set up your VCR for Timer Recording *after you have programmed the timer*. (The programming instructions are on pages 24-25.) When you have finished programming the timer, follow the steps in the drawing to prepare for timer recording. We suggest that you make one or more short timer recordings for practice so you won't be disappointed later on.

If you have a Daily or Weekly program in the VCR timer, you should check the steps in the drawing sometime before the recording time to be sure that your VCR is ready to record.



Timer Recording Checklist

Before your VCR timer can record a TV broadcast, all the conditions listed here must be fulfilled. They are presented as a checklist you can use until you are familiar with your VCR.

- Cassette inserted in the VCR. (TIMER flashes if not.)
- □ Cassette has its safety tab in place. (If not, the cassette is ejected.) (See "Erase Protection" on page 9.)
- □ Cassette length and recording speed are adequate for program(s) to be recorded.
- Cassette rewound to beginning or to place desired on tape.
- □ Clock set to correct time and date.
- □ Timer has been programmed. ("PROG" will be displayed.)
- POWER has been turned off. "TIMER" appears only if the timer is programmed and the VCR is off.

Programming Reminders

- The timer light will flash when you turn off the VCR if you have programmed the timer but forgotten to insert a cassette.
- If the cassette, in the VCR has its safety tab removed (page 9), the VCR will eject it after you have programmed the timer and turned off the VCR. This

is to remind you to insert a new cassette or cover the safety tab.

XPR and Timer

The timer cannot begin recording if the VCR is already recording with XPR, and vice versa. You can use XPR along with Timer Recording, but be careful that the XPR recording will end before the first timer recording begins.

TV Viewing During a Timer Recording

When the VCR turns on automatically to make a timer recording, it does not disturb whatever program you may be watching at the time. Press the VCR/TV switch to turn on the VCR light if you want to monitor the recording.

Stopping a Timer Recording in Progress

Press *POWER* and then press *STOP* within 10 seconds. (Press *POWER* once more to turn off the VCR). This erases a Normal program from the timer's memory, but a Daily or Weekly program will record on the next scheduled day.

Timer Recording From the Line Input

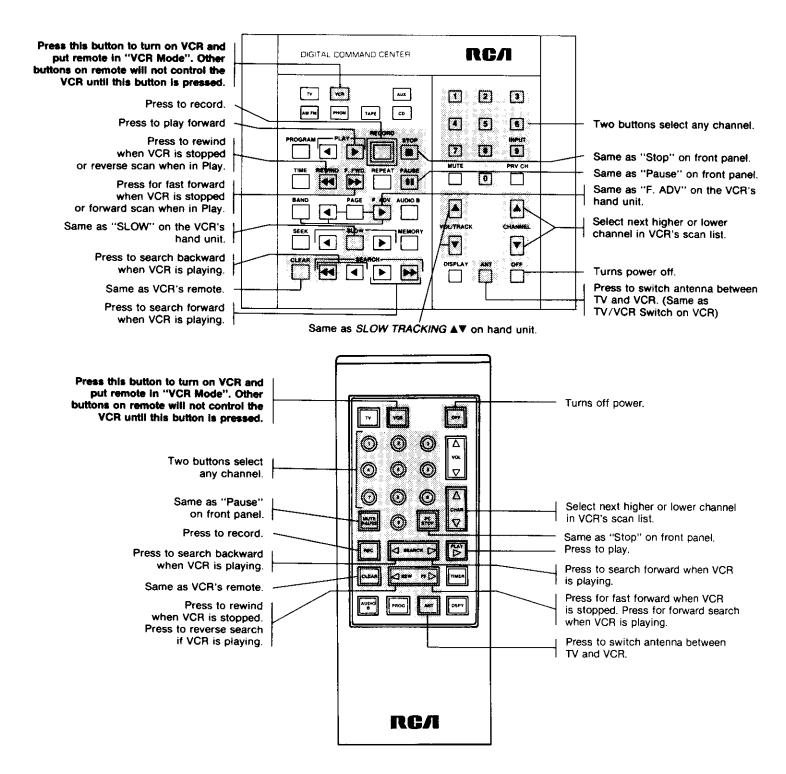
It is also possible to timer record from the VCR's Line input. Just enter "91" for the channel. This is particularly convenient if you have a satellite receiver or similar device attached to the VCR's Line input.

Alternate Remote Control Units

Selected models of RCA color TV receivers and monitor/receivers feature infrared hand units that will also remotely control your VCR. Only the buttons that are used for controlling your VCR are described here. These buttons have generally the same functions as the ones with the same names on the front panel of the VCR, but there are some differences.

- Any VCR tuner channel may be selected by pressing two of the Digit buttons on the hand unit. Press **0** first to select tuner channels 1 through 9.
- Separate buttons turn the VCR on and off.
- Simply press the Record button to record. It is not necessary to press the Play button at the same time.

Note: When you use CHANNEL UP or DOWN on the Digital Command Center hand unit, the VCR uses its internal scan list of channels, not the scan list that you programmed into the hand unit for controlling the TV.



Cleaning

Dust exposed surfaces as required, using a soft cloth or the dusting attachment of your vacuum cleaner. Occasionally use the vacuum cleaner to remove dust from the ventilation holes on the top, back, sides, and bottom of the cabinet.

Trouble Checks

Sometimes problems can be easily solved by checking a few basic things. Check below before you call for help or take your unit to an RCA Authorized VCR Servicenter or the RCA Service Company. It could save you time and money. If service should be necessary, RCA Authorized VCR Servicenters and the RCA Service

Company are trained and equipped to furnish it.

Some of the plastic surfaces are easily scratched and

they can be marred by alcohol and various solvents.

Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet are non-porous and the

residue will accumulate more dust.

1 5		
No Power (indicator won't come on)	• Check to see if the VCR is plugged into an operating outlet.	
Does Not Respond to Remote Control	 Weak battery in hand unit. Hand unit not aimed at the VCR or there is an obstruction between them. 	
Poor/No Picture for Normal TV Viewing	 The VCR/TV switch may be set to VCR. Switch the VCR to TV or turn it off. TV monitor/receiver set to "Video Input." Switch to an active channel. Carefully check antenna connections. 	
Snowy/No Picture During Playback	 VCR/TV switch set for TV viewing. Make sure the TV channel selector matches the channel you have selected on the back of the VCR (3 or 4). Make sure the TV is fine tuned. Check the video cable connections between the VCR and a TV monitor/ receiver. Make sure the TV monitor/receiver is set for "Video In." Try another tape. Very dirty tape has left deposits on VCR heads. See page 9 for head cleaning. Some snow and streaks are normal during Search and Stop-Action play. 	
Streaks in Picture During Normal Playback	 Adjust the TRACKING CONTROL. Tape stretched (poor quality or worn out). 	
Will Not Record or Play	 Stop light blinks if there is moisture in the VCR. Leave the power on and wait until the light is on continuously. If liquid entered the VCR, unplug it and have it inspected by a qualified Servicenter. No cassette in VCR. Eject and reinsert cassette. Broken tape - try another cassette. 	
Will Not Record	 VCR is in the pause mode. Safety tab removed from cassette. 	
Timer Recording Not Made	 Program entered incorrectly (wrong channel or times). Power interruption. (Clock on the VCR's front panel will show ":".) Clock was not set accurately (including AM/PM). Program exceeded cassette length or tape was not rewound beforehand. TUNER/LINE switch set to wrong position. No tape in VCR or cassette safety tab broken off. 	
Tape Stops Before Complete Rewind	• Turn off COUNTER or press REWIND again. Tape rewinds only to 0000 when the counter is on.	
Rewind does not operate	Tape already rewound. Check counter reading.	
Clock Shows Incorrect Time or Date	 Power interruption. (Clock on the front panel shows ":".) Clock was not set accurately (especially AM and PM). Clock display shows recording time remaining during XPR recording 	

• Clock display shows recording time remaining during XPR recording.

A/B Switch
Accessories (Included) 2
ADD Button 11
Adding Channels to Scan List 11
Alternate Remote Controls 27
Antenna Connection 2,3,4
AUTO PROG Button 11
Basic Operation 10
Basic Playback (Quick Guide) 20
Battery Installation (Remote) 13
Cabinet Cleaning 28
Cable-TV Connections 5,6
Cables (Types of Antenna Cables) . 2
Camera Recording 22
Care and Storage (Cassettes) 9
Cassette Compartment 10
Cassettes
Cassettes (Inserting/Removing) 10
CATV/NORM Switch 11
CH3/CH4 Switch 12
CHANNEL Buttons 10,11,12
CHANNEL Buttons (Remote) 13
CHANNEL PROGRAMMING
Buttons 11
Checklist (Timer Recording) 26
Choosing Location 2
Cleaning (Cabinet) 28
CLEAR Button (Remote) 13,14,25
Clock (Setting) 14
Connections
• Another VCR 21
• Antenna 3,4
• Cable-TV 5,6
• Camera 22
• Converter Box 5,6
• TV Monitor/Receiver 7
Controls (Detailed) 16,17
Copying Tapes 21
COUNTER Button (Tape
Counter) 17,18
Deleting Channels from Scan List . 11
Dubbing Tapes 21
Effects (Special) 17,18
<i>EJECT</i> Button 10,16
Ejects Tape (Programming
Timer) 26
ERASE Button 11
Erase Protection (Cassettes) 9
Express Recording 23
F.ADV Button (Remote) 13
F.ADV Button (Remote) 13 F.FWD Button 16,18
F.ADV Button (Remote) 13 F.FWD Button 16,18 F.FWD Button (Remote) 13
F.ADV Button (Remote) 13 F.FWD Button 16,18 F.FWD Button (Remote) 13 FCC Interference Handbook 2
F.ADV Button (Remote) 13 F.FWD Button 16,18 F.FWD Button (Remote) 13

	15
	17
	2
	13
	10
Installation	2
	12
Interference	2
U,	17
	26
LINE/TUNER Switch	12
Location (Choosing)	2
MEMORY Button (Remote)	13
	18
NORM/CATV Switch	11
Numbered Buttons (Remote)	13
Operating Controls (Detailed) 16,	17
Operation (Basic)	10
PAUSE Button	16
	13
	17
	17
Picture Search	18
<i>PLAY</i> Button 10,	16
PLAY Button (Remote)	13
	20
Playing Times & Speeds	
(Cassettes)	9
POWER Button 10,	16
POWER Button (Remote)	
	22
PROGRAM Button (Remote) 13,	
Programming Channels	11
	26
Programming Scan List	11
Programming the Timer 24,25,	
Quick Reference Guides . 19,20,21,	22
REC Button (Remote)	
RECORD Button 10,	
Recording & Viewing Different	
Programs	20
Recording & Viewing Same	
Program	19
Recording (Camera)	22
Recording (Express)	23
Recording (First-Time)	15
Recording From Another VCR	21
Recording Speed (Cassettes)	9
Recording With TV Off (Quick	
Guide)	19
Red Indicator Light (Remote)	13
Registration Card Inst	
Front Co	
	13
Remote Controls (Alternate)	27

Removing Cassettes 10
RESET Button (Counter) 17,18
REWIND Button 10,16,18
REWIND Button (Remote) 13
Safety Precautions Inside
Front Cover
Safety Tab (Cassettes)
Scan List 11
SEARCH Buttons 16,18
SEARCH Buttons (Remote) 13
Setting the Clock 14
Signal Splitter 6,7
Simplified Installation Checklist 12
SLOW Button (Remote) 13
Slow Motion
SLOW TRACKING Buttons 13,18
Special Effects & Features 17,18
Special Features 17,18
Specifications Back Cover
Splitter (Signal Splitter) 6,7
Status Display 10
Stop-Action Playback 17
STOP Button 10,17
STOP Button (Remote) 13
Stopping Timer Recording 26
Streaks in Picture 18
Tape Counter 17,18
Tape Ejects (Programming Timer)26
<i>TAPE SPEED</i> Button 10,17
Time Display 10
Timer Light (Flashing)
Timer Recording 24,25,26
Timer Recording Checklist
Timer Recording from Line Input. 26
TRACKING Control
Trouble Checks
<i>TUNER/LINE</i> Switch 12,17
Turning On VCR
TV Monitor/Receiver Connections . 7
TV Viewing (Quick Guide) 19
TV/VCR Button (Remote) 13
Types of Antenna Cables 2
Unpacking
<i>V LOCK</i> Control 17
<i>VCR</i> (VCR/TV) Switch 10,12,26
VCR Channel 12
Video Cassettes
Warranty Back Cover
Warranty Registration Inside
Front Cover
What Your VCR Will Do 8
XPR Button (Express Recording) 23

Specifications

Format	VHS	
Record/Playback System:	3-Head: 2 video record/ playback heads, 1 special effects head	
Video Signal:	EIA standard: NTSC color	
Antenna	75-ohm external VHF antenna terminal 300-ohm external UHF antenna	
Tuner	120-channel	
Туре	Frequency synthesis	
Broadcast Channels:	VHF 2 - 13, UHF 14 - 83	

Cable-TV Channels:	Midband A-1 and A-2 (99, 98); A-8 (01) Midband A through I (14-22) Superband J through W (23-36) Hyperband W + 1 - W + 12 (37-48)
Power Requirements	120V AC, 60Hz
Power Consumption	38 watts
Weight	14.3 lbs.
Dimensions	3-3/4" High 14-9/16" Wide 13-13/16" Deep

Note: Specifications subject to change without notice.

RCA Limited Warranty Video Cassette Recorder

What does your warranty cover:

• Any defect in material or workmanship.

For how long after purchase:

- Ninety days for labor charges.
- One year for parts.

The warranty period for rental VCR's begins with the first rental.

What will RCA do:

- Pay any RCA Authorized VCR Servicenter the labor charges to repair your VCR.
- Provide new or, at our option, rebuilt replacement parts for the RCA Authorized VCR Servicenter to make the repairs.

How do you get service:

- Take your VCR to any RCA Authorized VCR Servicenter or to the RCA Service Company. For their names and locations, ask your dealer or RCA Distributor, or look in the Yellow Pages.
- Show the service technician your Warranty Registration or evidence of purchase date.
- Pick up your VCR when repairs are completed.

What does your warranty not cover:

- Transportation to and from the Servicenter.
- Customer instruction. Your Owner's Manual provides information regarding operating instructions and user controls. For additional information ask your dealer.
- Installation and set-up service adjustments.
- Signal reception problems caused by external antenna or cable systems.
- Damage from misuse or neglect.
- Cleaning of video/audio heads, which is normal maintenance.
- Remote control batteries.
- VCR's which have been modified or incorporated into other products.
- VCR's purchased or serviced outside the USA.

How does state law relate to this warranty:

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

What if you purchased your set in Canada:

• Refer to the Canadian Warranty.

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:

RCA Inc.

Service des données techniques 5575 av. Royalmount Ville Mont-Royal, Québec, Canada H4P 1J8



RCA Corporation Consumer Electronics Division 600 N Sherman Dr, PO Box 1976 Indianapolis, Indiana 46206 ©1987 RCA Corporation Trademark(s)[®] Registered Marca(s) Registrada(s) Part Number 2826 740-1 Printed in Japan Job A-43972 4653521 E72118 Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com