

**SAMSUNG**

CXD1332/3/4  
CXD1932/3/4  
CXD2512/4  
CXD1342/1942  
CXE1331/1931

## TV/VCR COMBINATION UNIT

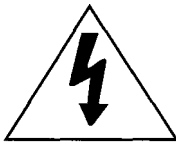


# Owner's Instructions

# Warning! Important Safety Instructions



CAUTION: 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 high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

**Note to CATV system installer:** This reminder is provided to call CATV system installer's attention to Article 820-40 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:** *FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.*

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

**Important:** One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be a violation of these rights.

**To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.**

# Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung TV/VCR combination unit represents the latest in TV/VCR technology. We designed it with easy-to-use programming features and closed captioning capabilities, making this unit one of the most desirable products in its class. We're proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

## Important Safety Information



Always be careful when using your TV/VCR. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating the TV/VCR.
- Retain the safety and operating instructions for future reference.
- Heed all warnings on the TV/VCR and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the TV/VCR from the wall outlet before cleaning. Use a damp cloth, do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions may result in the risk of fire, electric shock, or other personal injury.
- Do not use the TV/VCR where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the TV/VCR on an unstable cart, stand, tripod, bracket, or table. The TV/VCR may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the TV/VCR. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the TV/VCR and its cart with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart to overturn.
- Provide ventilation for the TV/VCR The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the TV/VCR on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the TV/VCR on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.
- Operate your TV/VCR only from the type of power source indicated on the marking label If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.



- Use only a grounded or polarized outlet. For your safety, this TV/VCR is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.
  - Protect the power cord. Power supply cords should be routed so that they are unlikely to be walked on or pinched by items placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
  - Unplug the TV/VCR from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.
  - Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.
  - Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
  - Do not insert foreign objects through openings in the unit, as they may touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV/VCR.
  - Ground outdoor antennas. If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 81.0 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- Diagram illustrating an example of antenna grounding. The diagram shows a house with an antenna system. Labels include: EXAMPLE OF ANTENNA GROUNDING, ANTENNA LEAD IN WIRE, ANTENNA DISCHARGE UNIT (NEC SECTION 810-20), GROUNDING CONDUCTORS (NEC SECTION 250-11), GROUND CLAMPS, POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250 PART H), and ELECTRIC SERVICE EQUIPMENT. The diagram shows the antenna lead-in wire connected to a discharge unit, which is then connected to grounding conductors that run down the side of the house and connect to ground clamps on the power service grounding electrode system.
- Do not attempt to service the TV/VCR yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - when the power-supply cord or plug is damaged
    - if liquid has been spilled on the unit or if objects have fallen into the unit
    - if the TV/VCR has been exposed to rain or water
    - If the TV/VCR does not operate normally by following the operating instructions
    - if the TV/VCR has been dropped or the cabinet has been damaged
    - when the TV/VCR exhibits a distinct change in performance

If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the TV/VCR to normal.
  - When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
  - Upon completion of any service or repairs to this TV/VCR, ask the service technician to perform safety checks to determine that the TV/VCR is in a safe operating condition.

## CONTENTS

▶ Chapter 1: Your New TV/VCR	1.1
List of Features	1.1
Checking Parts	1.1
Familiarizing Yourself with Your New TV/VCR	1.2
Front Panel	1.2
Rear Panel and	1.3
Remote Control	1.4
▶ Chapter 2: Installation	2.1
Connecting VHF and UHF Antennas to the TV/VCR	2.1
Antennas with 300-ohm Flat Twin Leads	2.1
Antennas with 75-ohm Round Leads	2.2
Separate VHF and UHF Antennas	2.2
Connecting Cable TV Systems to the TV/VCR	2.3
Cable without a Converter Box	2.3
Cable with a Converter Box	2.3
Installing Batteries in the Remote Control	2.4
▶ Chapter 3: TV Operation	3.1
Viewing the On-Screen Display	3.1
Viewing the Main Menu	3.2
Selecting the On-Screen Language	3.2
Selecting the Signal Source	3.3
Programming the Channels	3.3
Storing Channels in Memory	3.3
Adding and Erasing Channels in Memory	3.4
Setting the Clock and Calendar	3.5
Choosing Picture Settings	3.7
Customizing Picture Settings	3.7
Using Standard Picture Settings	3.8
Setting the Sleep Timer	3.9
Using the On/Off Timer	3.10
▶ Chapter 4: VCR Operation	4.1
Inserting and Ejecting a Video Cassette Tape	4.1
Playing a Pre-Recorded Video Cassette Tape	4.2
Playing the Tape	4.2
Pausing	4.2
Using Picture Search	4.3
Using Automatic Tracking	4.3
Using the Time Counter	4.4
Using Memory Stop	4.5

## CONTENTS

► Chapter 4: VCR Operation (cont.)	
Recording TV Programs as You Watch	4.6
Recording	4.6
Editing While Recording	4.7
Using Advanced Recording Features	4.8
Using One-Touch Recording	4.8
Recording at a Later Time	4.9
Using Program Review	4.13
► Chapter 5: Special Features	5.1
Viewing the Demonstration Mode	5.1
Using True Repeat	5.2
Using Block Repeat	5.3
Viewing Closed Captions	5.4
Using Special Playback Features	5.5
Frame Advance	5.5
Skip Search	5.5
Slow Motion	5.5
Video Dubbing	5.6
Making the Connections	5.6
Video Dubbing	5.7
► Chapter 6: Troubleshooting	6.1
Identifying TV Problems	6.1
Identifying VCR Problems	6.1
Getting Help	6.2
► Spanish Quick Reference Guide	7.1
► Appendix	A.1
Cleaning and Maintaining Your TV/VCR	A.1
Learning About Video Cassette Tapes	A.1
Choosing the Proper Tapes	A.1
Caring for Video Cassette Tapes	A.1
Choosing the Correct Recording Speed	A.2
Using the Record Safety Tab	A.2
Sending Tapes to Another Country	A.2
Using Your TV/VCR in Another Country	A.2
Specifications	A.3
► Index	I.1
► Warranty Information	

# Chapter One

## YOUR NEW TV/VCR

This chapter will help familiarize you with your new TV/VCR combination unit.

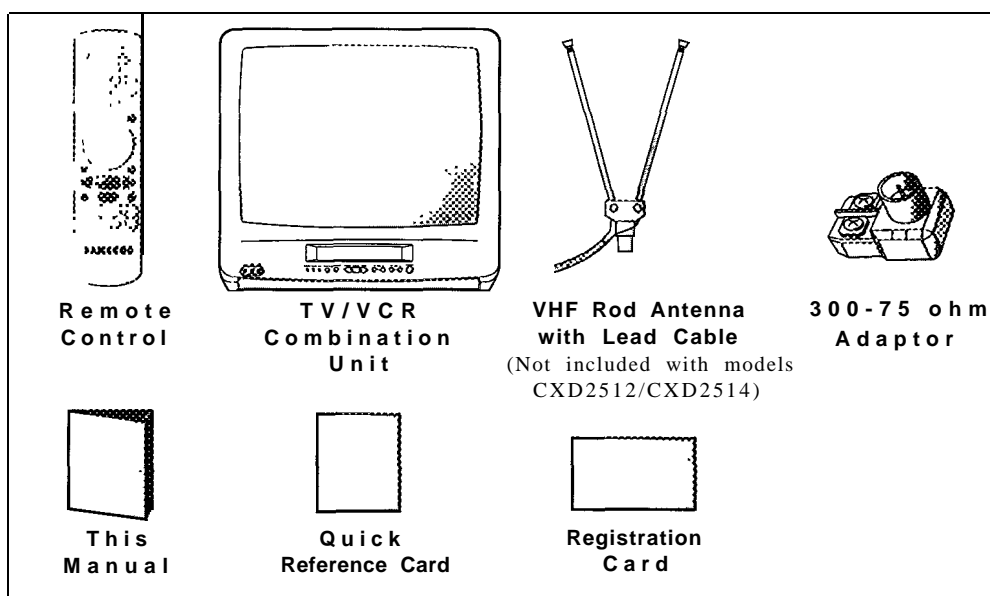
### ► List of Features

Samsung's TV/VCR unit was designed and engineered using the latest technology. This unit is a full-featured, high-performance unit that not only meets, but exceeds, industry standards. The following is a list of its many exciting features:

- Closed captioning
- On-screen programmed recording of up to six events in one month
- Digital auto-tracking
- Repeat play
- Infra-red wireless remote control system
- Quick-start, full loading system
- High-speed rewinding
- High-Quality video circuitry
- 181-channel capability (frequency synthesized tuner)
- Auto channel programming
- One-touch recording (up to 4 hours)
- Eight-hour recording on a single T-160 video cassette
- Tri-lingual on-screen displays (English, Spanish, and French)

### ► Checking Parts

Once you have unpacked your TV/VCR, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer. Also, please fill out the warranty card and send it to Samsung.



## YOUR NEW TV/VCR

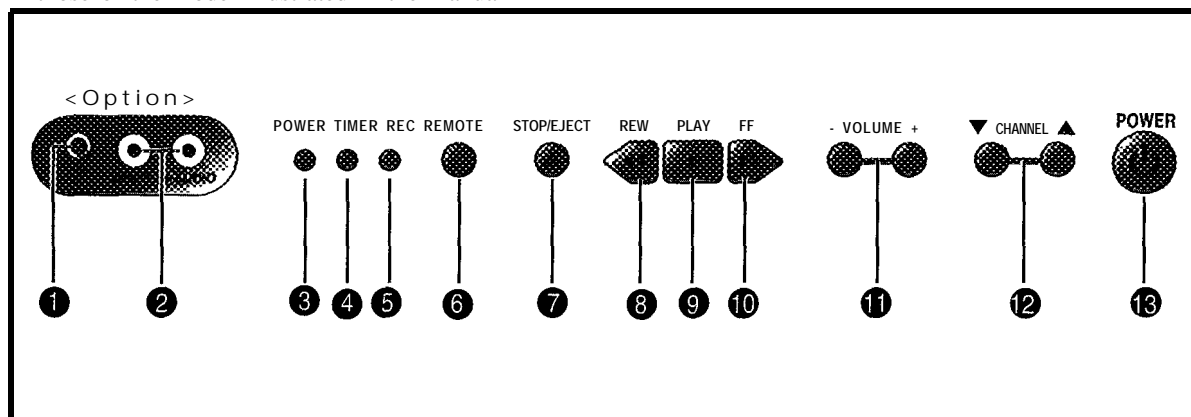
## Familiarizing Yourself with Your New TV/VCR

Take a moment to familiarize yourself with your new TV/VCR by looking at the pictures on the next few pages.

### Front Panel

The buttons on the front panel control basic functions. More advanced functions require the remote control.

\* Because of model variations, the design specifications of your television set may be slightly different from those of the model illustrated in the manual.



- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1</b> <b>EARPHONE</b> &lt;Option&gt;<br/>You can plug earphones into this jack to listen to the TV/VCR without disturbing others. Use earphones with a "mini" jack.</p> <p><b>2</b> <b>VIDEO IN and AUDIO IN</b> &lt;Option&gt;<br/>Use these jacks to record video and audio from auxiliary equipment such as a camcorder or another VCR.</p> <p><b>3</b> <b>POWER light</b><br/>Lights when the power has been turned on.</p> <p><b>4</b> <b>TIMER light</b><br/>Lights when the power has been turned on or the timer is set for recording later.</p> <p><b>5</b> <b>REC (record light)</b><br/>Lights when the TV/VCR is recording.</p> <p><b>6</b> <b>REMOTE Sensor</b><br/>Receives signals from the remote.</p> | <p><b>7</b> <b>STOP/EJECT</b><br/>Press to stop a video tape during play, record, rewind, or fast forward. Ejects a video tape once the tape has stopped.</p> <p><b>8</b> <b>◀REW (rewind)</b><br/>Press to rewind a tape.</p> <p><b>9</b> <b>▶PLAY</b><br/>Press to play a tape.</p> <p><b>10</b> <b>▶▶FF (fast forward)</b><br/>Press to fast forward a tape.</p> <p><b>11</b> <b>- VOLUME +</b><br/>Press to decrease and increase the volume.</p> <p><b>12</b> <b>▼ CHANNEL ▲</b><br/>Press to change channels.</p> <p><b>13</b> <b>POWER</b><br/>Press to turn the TV/VCR on and off.</p> |
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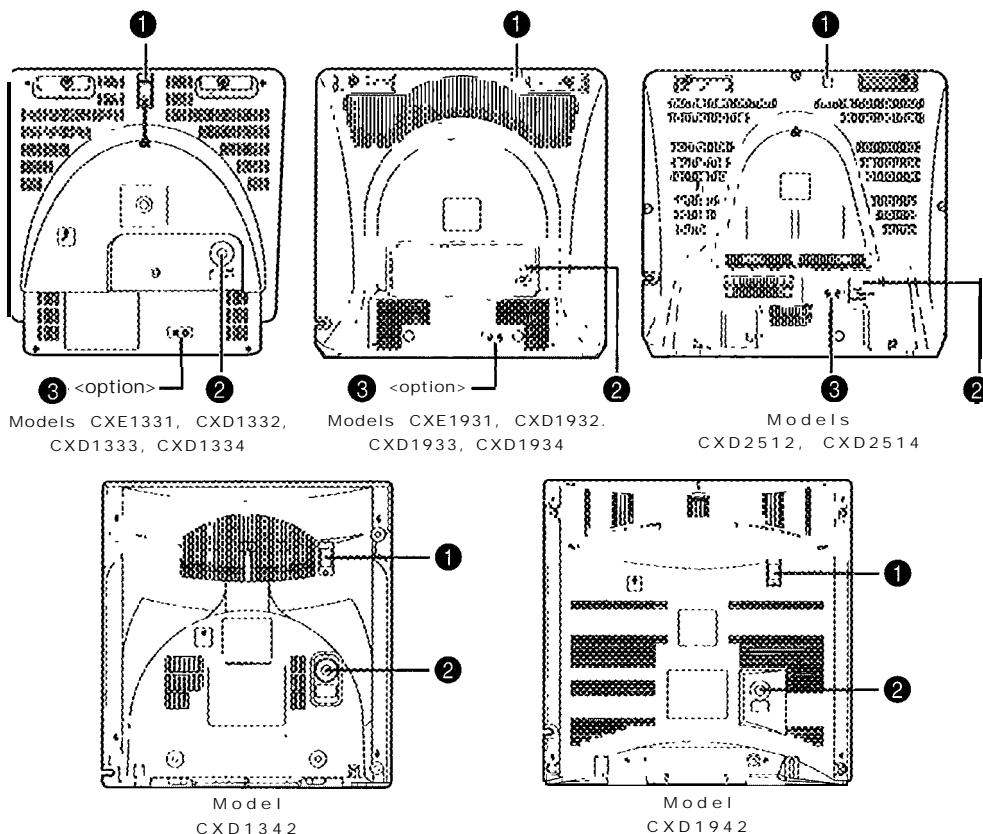


## YOUR NEW TV/VCR

Models TVN3350, TVN3354,  
TVN3350CA

### Rear Panel and Accessories

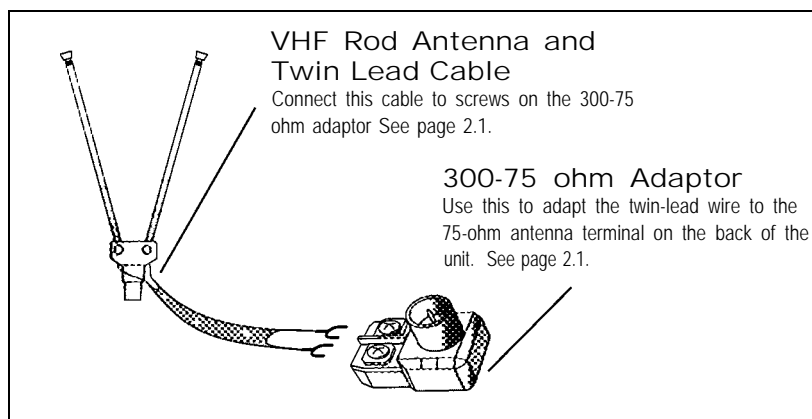
For information on making the connections referred to here, see pages 2.1-2.4



**1 VHF Antenna Mount**  
Mount the VHF rod antenna here See page 2.1

**2 Antenna Terminal**  
Use this terminal (labeled VHF/UHF IN FROM ANT) to connect the TV/VCR to a 75-ohm outdoor antenna or cable system. See pages 2.2 - 2.4.

**3 INPUT AUDIO/VIDEO**  
Use these jacks to record video and audio from auxiliary equipment such as a camcorder or another VCR. (Models CXE1331, CXE1931, CXD2512 and CXD2514 only).



## YOUR NEW TV/VCR

### Remote Control

The remote control can be used up to a distance of about 33 feet (10 meters) from the TV/VCR. When using the remote control, always point it directly at the TV/VCR

- 
- 1 POWER**  
Press to turn the TV/VCR on and Off.
  - 2 Number buttons**  
Press to select specific channels on the TV/VCR.
  - 3 DISPLAY**  
Press to show on-screen displays.
  - 4 -VOL +**  
Press -VOL to decrease or Vol+ to increase the volume on the TV/VCR.
  - 5 PLAY**  
Press to play a video tape.
  - 6 MENU**  
Press to display the main menu.
  - 7 REW (rewind)**  
Press to rewind a video tape.
  - 8 REC (record)**  
Press to begin the recording process. Also used for one-touch recording.
  - 9 CLEAR**  
Press to correct errors during programming clear timer programs, or reset the tape counter.
  - 10 REPEAT**  
Press to repeat a tape or a section of a tape.
  - 11 F.ADV/SKIP**  
Press to advance a tape frame-by-frame or to use skip search (Models CXD1334/CXD1934/CXD2514 only)
  - 12 STOP**  
Press to stop a video tape
  - 13 EJECT**  
Press to eject a tape
  - 14 MONITOR**  
Press to switch the image on the TV from video tape to the television broadcast.
  - 15 LINE IN**  
Press to select the line sources connected to the Audio /Video jacks on the back of the TV/VCR
  - 16 SPEED**  
Press to select the desired tape speed
  - 17 MUTE**  
Press to silence (mute) the volume
  - 18 P-STD (picture-standard)**  
Press to select memory or standard picture settings
  - 19 CH ▲, CH ▼**  
Press ▲ or ▼ to change channels on the TV/VCR
  - 20 PRE-CH (previous channel)**  
Press to quickly tune to the last channel on the TV/VCR
  - 21 FF (fast forward)**  
Press to fast forward a video tape
  - 22 P./STILL (pause/still)**  
Press to freeze a frame of video tape on the screen, see page 4.3
  - 23 TRK (tracking)**  
Press t or- to manually adjust the tracking on a video tape, see page 4.3
  - 24 SLOW**  
Press to watch a tape in slow motion (Models CXD1334/CXD1934/CXD2514 only).

# Chapter Two

## INSTALLATION

In this chapter, you will learn to connect your TV/VCR. Choose which of the following situations applies to your system, and follow the step-by-step instructions to set up your new TV/VCR.

### ► Connecting VHF and UHF Antennas to the TV/VCR

If you do not have cable TV, you will connect the TV/VCR to one or more antennas. Before connecting, however, you must determine what type of lead your antenna has (The “lead” is the end of the antenna cable ).

If your lead looks like this,  
you have a *300-ohm flat twin lead*.  
(This is the type of lead on the rod  
antenna included with the unit ).



If your lead looks like this,  
you have a *75-ohm round lead*.  
(This is the type of lead on a  
coaxial cable ).

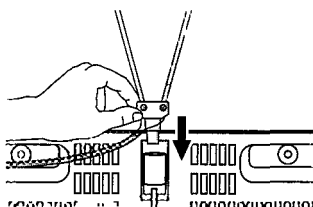


#### Antennas with 300-ohm Flat Twin Leads

The rod antenna included with your TV/VCR (except models CXD2512, CXD2514) uses 300-ohm twin flat leads. If you are using a different antenna (like a roof antenna) that also has 300-ohm twin flat leads, follow the directions below, but skip the first step

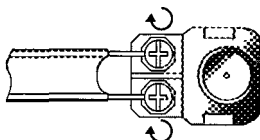
1

If you want to use the included rod antenna, push the stem of the antenna into the antenna mount at the top of the back panel.



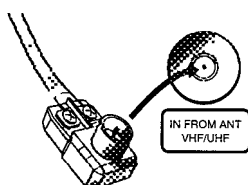
2

Place the wires from the antenna under the screws on the 300-75 ohm adaptor (included). Use a screwdriver to tighten the screws.



3

Plug the adaptor into the terminal on the bottom of the back panel.

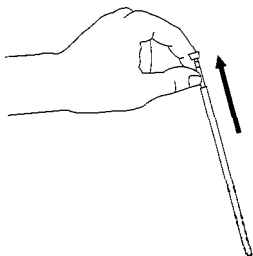


*continued...*

## INSTALLATION

**4**

Extend the rod antenna completely, and adjust its position for the clearest picture.

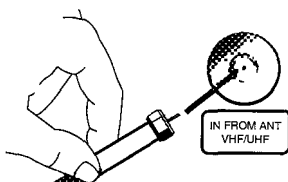


◀ To reduce the risk of damage to the antenna, only change its position by adjusting the black plastic base

### Antennas with 75-ohm Round Leads

**1**

Plug the antenna lead into the terminal on the bottom of the back panel.

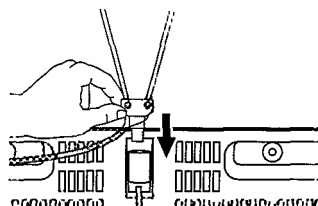


### Separate VHF and UHF Antennas

If you have two separate antennas for your TV/VCR (one VHF and one UHF), you must combine the two wires into one in order to connect the TV/VCR. This procedure requires a combiner attachment. You'll find the type of combiner you need at an electronics store.

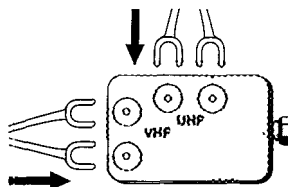
**1**

Push the stem of the VHF rod antenna (if applicable) unto the antenna mount at the top of the rear panel.



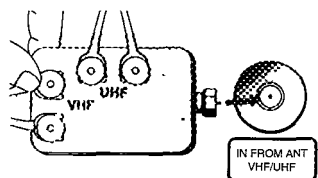
**2**

Connect both antenna leads to the combiner.



**3**

Plug the combiner into the terminal on the bottom of the back panel.



## INSTALLATION

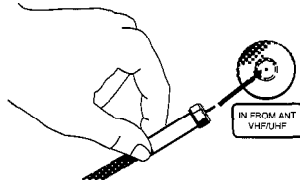
### Connecting Cable TV Systems to the TV/VCR

Your cable-ready TV/VCR has a built-in 181-channel tuner that can receive all 68 VHF/UHF channels plus basic cable channels without an external cable converter box. If your cable company does not scramble its channels, use these instructions to connect cable to your TV.

#### Cable without a Converter Box

1

Plug the incoming cable into the terminal on the bottom of the rear panel.



◀ Because your new TV/VCR is cable-ready, you don't need a cable box converter for basic cable channels.

#### Cable with a Converter Box

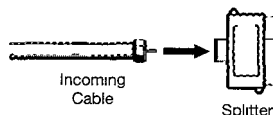
If your cable company scrambles some channels and requires you to use a converter box for only those channels, use these instructions to connect cable to your TV. You will need the following pieces of equipment:

- A 2-way splitter
- An RF (A/B) switch
- Four lengths of coaxial cable

You can find these accessories at most electronics supply stores.

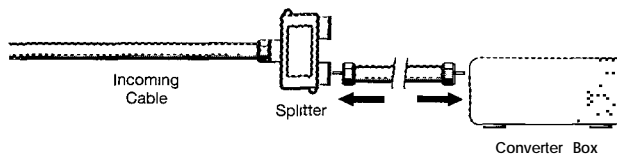
1

Plug the incoming cable into the 2-way splitter.



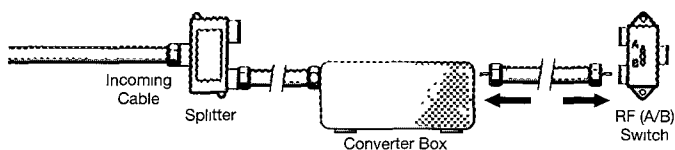
2

Connect one of the coaxial cables between the splitter and the in terminal of the converter box.



3

Connect a 3 second coaxial cable between the out terminal of the converter box and the "B" terminal on the RF (A/B) switch.

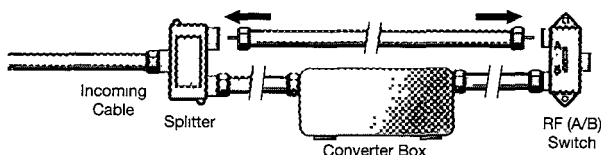


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## INSTALLATION

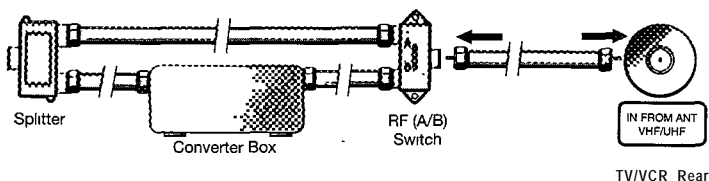
**4**

Connect a third coaxial cable between the splitter and the "A" terminal on the RF (A/B) switch.



**5**

Connect the fourth coaxial cable between the terminal on the RF (A/B) switch and the terminal on the TV/VCR's back panel.

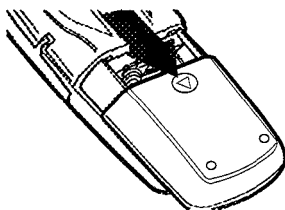


Choose the "A" position on the A/B switch to select all non-scrambled channels by remote control. Choose the "B" position on the A/B switch to select scrambled channels via the converter box. When using the "B" position, tune your TV to the output channel of the converter box (usually channel 3 or 4).

## Installing Batteries in the Remote Control

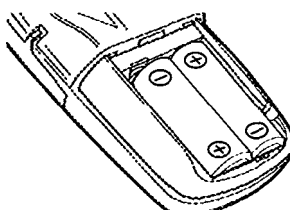
**1**

Open the battery compartment by pressing down on the back cover's tab, then sliding it off.



**2**

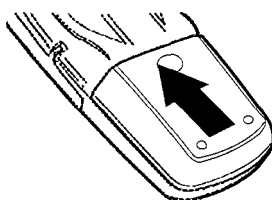
Install two AAA size batteries (included with your TV/VCR).



◀ Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.

**3**

Replace the cover.



◀ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 33 feet (10 meters) from the TV/VCR.

Batteries last for about one year.

# Chapter Three

## TV OPERATION

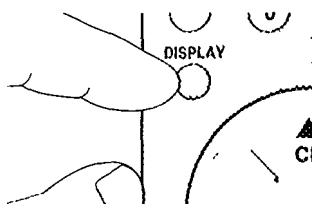
In this chapter, you will learn how to use the TV features of your TV/VCR unit. You will set up your TV, completing procedures such as storing channels in memory and setting the clock and calendar. Then you will learn how to use convenience features such as customizing your picture settings, and setting the sleep timer.

### ▶ Viewing the On-Screen Display

The on-screen displays automatically appear on the screen when you turn on the TV/VCR or change its status (from stop to play, from play to stop, etc.). You can also activate the on-screen displays manually by using the remote control.

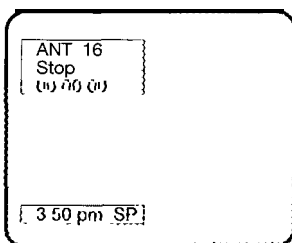
1

With the power on, press **DISPLAY**.



The on screen display items appear on the screen.

If you have a video tape in the TV/VCR, the display includes the status of this tape (Stop, Play, etc.).

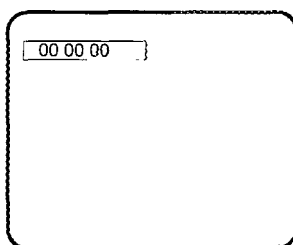


◀ This on-screen display disappears from the screen after less than ten seconds.

If there is no tape in the TV/VCR, the tape status will read, "No tape."

2

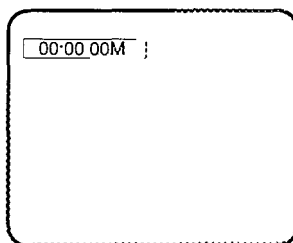
Press **DISPLAY** again (while the display items are still on the TV/VCR screen) to display the time counter.



3

Press **DISPLAY** again to display the counter memory.

Press **DISPLAY** once more to remove all displays from the screen and return to normal viewing.



◀ For more information about the time counter memory, see page 4.5.

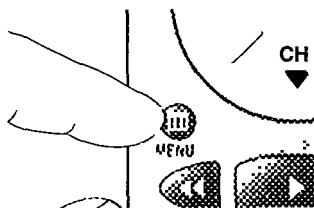
## TV OPERATION

## Viewing the Main Menu

To view the main menu,

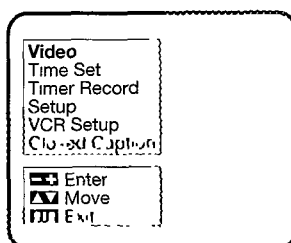
1

With the power on,  
press **MENU**.



The main menu  
appears on the  
screen.

Press **MENU** again to  
remove the main  
menu from the screen.



◀ This menu will disappear from the screen in less than thirty seconds if you don't press any buttons on the remote.

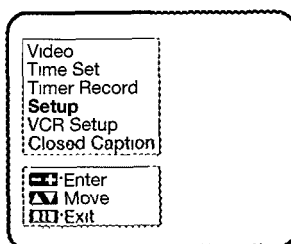
## Selecting the On-Screen Language

You can choose to have your menus and displays read in English, Spanish, or French.

1

With the main menu on  
the screen, press **CH** ▼  
until "Setup" is high-  
lighted.

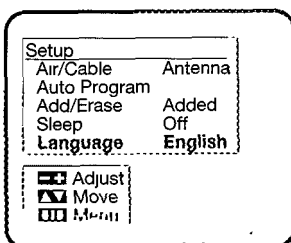
Press **VOL +**.



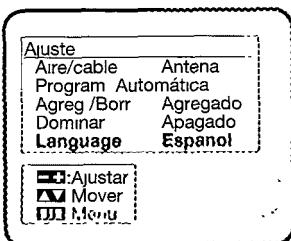
◀ For information on viewing the main menu, see above.

2

You will see the Setup  
menu. Press **CH** ▼ until  
"Language" is  
highlighted.



Press **VOL -** or **VOL +**  
button to select the  
on-screen language you  
want.





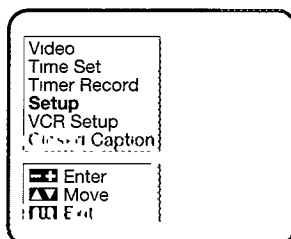
## ►Selecting the Signal Source

The first step in programming your TV/VCR is to select the signal source in your home's antenna or cable TV system

1

With the main menu on the screen, press **CH ▼** until "Setup" is highlighted.

Press **VOL +**.

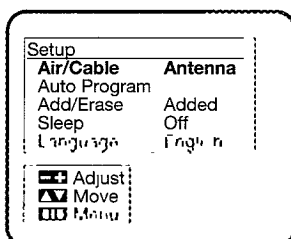


◀ For information on viewing the main menu, see page 3.2

2

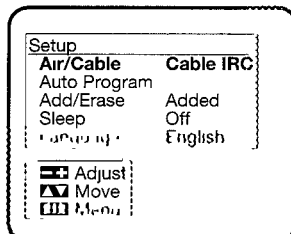
You will see the Setup menu. "Air/Cable" is highlighted.

Press **VOL -** or **VOL +** button to select "Antenna," "Cable STD," "Cable HRC," or "Cable IRC."



◀ If your TV/VCR is connected to an antenna, select "Antenna." If you have cable TV, select "Cable STD," "Cable HRC," or "Cable IRC," depending on the type of cable system you have.

If you are not sure what type of cable system you have, contact your cable company.



## ► Programming the Channels

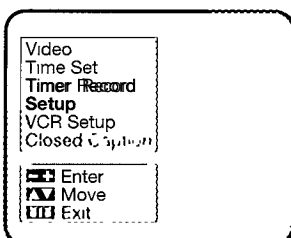
### Storing Channels in Memory

Your TV/VCR can automatically memorize all the channels you receive. Once these channels are in memory you can use the **CH▲** and **▼** buttons to select the channels, eliminating the need to enter individual channel digits with the number buttons.

1

With the menu on the screen, press **CH ▼** until "Setup" is highlighted

Press **VOL +**.



◀ For information on viewing the main menu, see page 3.2.

You must have already selected the signal source. For more information on selecting the signal source, see above.

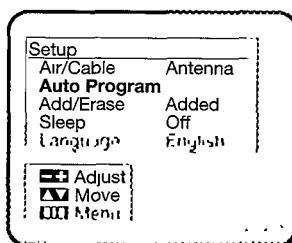
*continued...*

## TV OPERATION

2

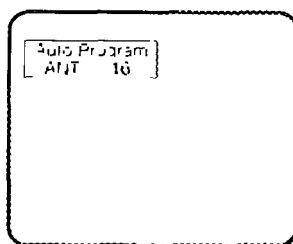
You will see the Setup menu.

Press **CH▼** until "Auto Program" is highlighted.



3

Press **VOL-** or **VOL +** button to begin automatic programming.

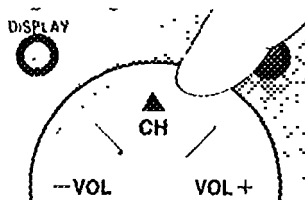


◀ The TV/VCR automatically cycles through all the channel numbers and places only the available channels in memory. This takes about one to two minutes.

Press **MENU** at any time to interrupt the programming process and return to normal viewing.

4

When the programming process is complete, press **CH▲** or **CH▼** to scan those channels stored in the TV/VCR's memory.



◀ Occasionally the TV/VCR will miss an active channel if the signal is weak or if the channel is off the air when you start programming. Likewise, an unavailable channel may be included in channel memory if there is noise or stray signals on that channel during programming. For information about adding and erasing channels from memory, see below.

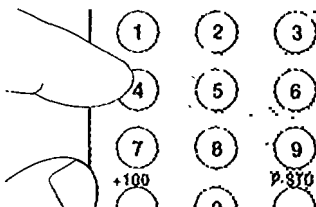
### Adding and Erasing Channels in Memory

You can manually add a channel to memory or erase one from memory.

To add a channel to memory or erase a channel from memory.

1

Use the number buttons to select the channel you want to add to the TV/VCR's memory or erase from the TV/VCR's memory.



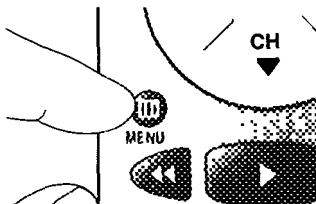
◀ Always press 0 before a single-digit channel number. For example, to select channel 8, press 0 then 8.

To add three-digit cable-TV channels, press "+100," then press the next two digits. For example, to select channel 104, press "+100," then press "0," then "4".

## TV OPERATION

2

Press **MENU** to display the menu. Press **CH ▼** until "Setup" is highlighted. Press **VOL +** to see the Setup menu.

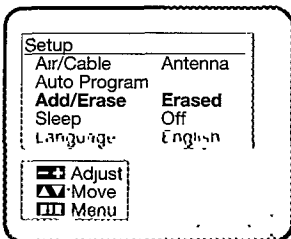
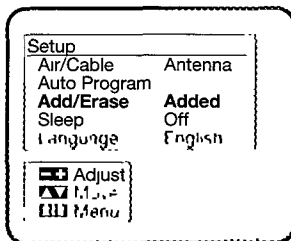


3

Press **CH ▼** until "Add/Erase" is highlighted.

If you want to add a channel that is not in memory, press **VOL +** or **VOL -** until the display reads "Added."

If you want to erase a channel that is already in memory, press **VOL +** or **VOL -** until the display reads "Erased."



◀ You can still view a channel that's not stored in memory. To do so, use the number buttons to select the channel.

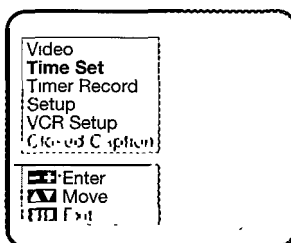
## ▶ Setting the Clock and Calendar

If you plan to record television programs while you're away or if you want to use the sleep timer on the TV/VCR, you must first set the built-in clock and calendar

1

With the main menu on the screen, press **CH ▼** until "Time Set" is highlighted.

Press **VOL +**.

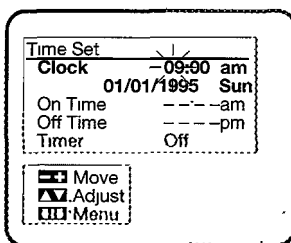


◀ For information on viewing the main menu, see page 3.2.

2

The Time Set menu will appear. Press **VOL +**. The hours will begin to blink.

Press **CH ▲** or **CH ▼** to set the current hour.



◀ Be sure to set the correct time of day (AM or PM), which appears to the right of the minutes.

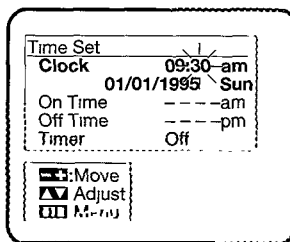
continued...

## TV OPERATION

3

After you've set the hours, press **VOL +**. The minutes will begin to blink.

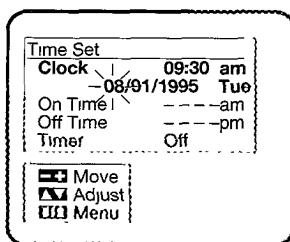
Press **CH ▲** or **CH ▼** to set the current minute).



4

After you've set the minutes, press **VOL +**. The month will begin to blink.

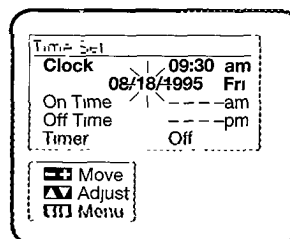
Press **CH ▲** or **CH ▼** to set the current month.



5

After you've set the month, press **VOL +**. The day will begin to blink.

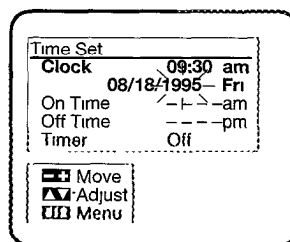
Press **CH ▲** or **CH ▼** to set the current day.



6

After you've set the day, press **VOL +**. The year will begin to blink.

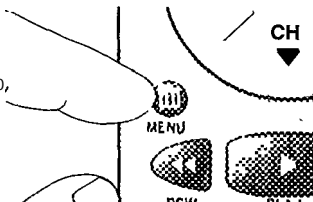
Press **CH ▲** or **CH ▼** to set the current year. The day of the week will be set automatically.



7

Press **MENU** to lock in the time and date and to return to the first menu.

Press **MENU** again to remove the main menu from the screen and return to normal viewing.



◀ If you make a mistake while setting the clock and calendar, press **VOL -** to move back to the incorrect item. Press **CH ▲** and **CH ▼** to change the item. Then, press **VOL +** to resume your place.

## ► Choosing Picture Settings

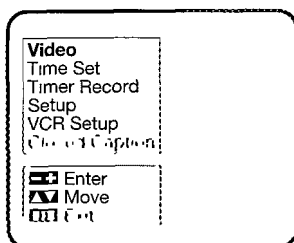
Your TV/VCR has been equipped with pre-set, standard values for its picture settings (contrast, brightness, sharpness, color, and tint) However, you may want to change these settings This section explains how to adjust picture settings and store these settings in memory, and how to switch back to the standard settings

### Customizing Picture Settings

1

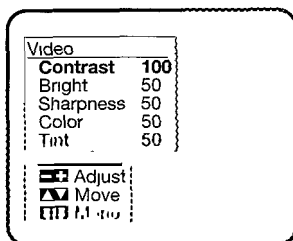
With the main menu on the screen, press **CH▲** or **CH▼** until "Video" is highlighted.

Press **VOL +**.



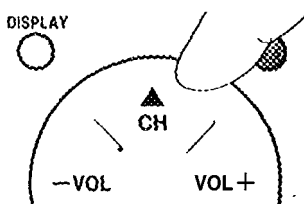
◀ For information on viewing the main menu, see page 3.2.

The Video menu appears on the screen.



2

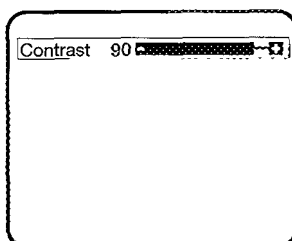
Press **CH▲** or **CH▼** to select contrast, brightness, sharpness, color, or tint.



3

Press **VOL +** or **VOL-** to change the setting you have chosen.

The setting for the feature you choose appears on the screen.

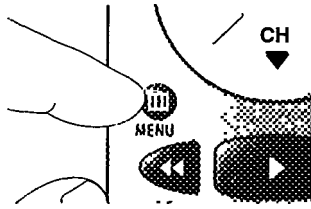


*continued...*

## TV OPERATION

4

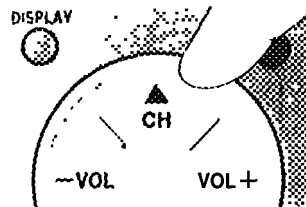
Press **MENU** or with a few seconds to lock in the change you make for that setting and return to the video menu.



◀ Once you've made changes to one or more of the picture features, your settings are stored in the TV/VCR's memory. Your custom picture setting now becomes the default setting that appears each time you turn on the TV/VCR.

5

Press **CH▲** or **CH▼** to select another picture setting or press **MENU** to exit the video menu.

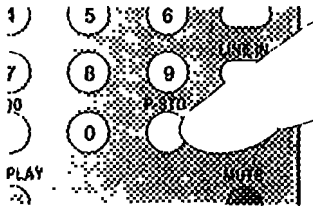


## Using Standard Picture Settings

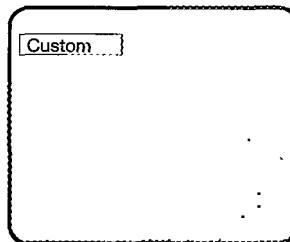
You can switch from your customized picture settings to the standard settings.

1

With the power on, press **P-STD**.



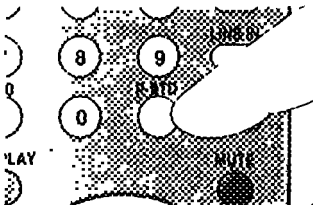
The word "Custom" appears for a moment in the upper left corner of the screen, indicating that the current picture settings are customized and stored in memory.



◀ If the word "Standard" appears, the TV/VCR is already set to use the standard picture settings.

2

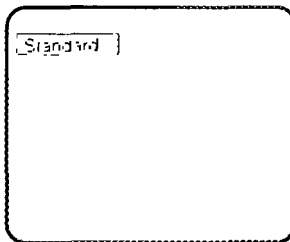
Press **P-STD** again (before the word "Custom" disappears) to switch to the standard settings.



## TV OPERATION

The word "Standard" appears for a moment in the upper left corner of the screen.

The picture setting is now set to "Standard "



◀ If you want to return to your customized picture settings, press P-STD again.

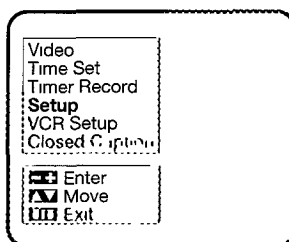
### ▶ Setting the Sleep Timer

The sleep timer allows you to select the length of time your TV/VCR remains on before turning off automatically. This is especially convenient if you like to fall asleep with the television on.

1

With the main menu on the screen, press CH▲ or C H▼ until "Setup" is highlighted.

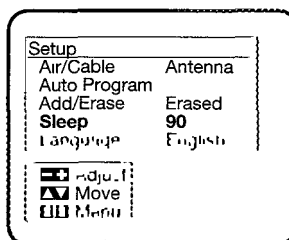
Press VOL +.



2

Press CH▼ until "Sleep" is highlighted.

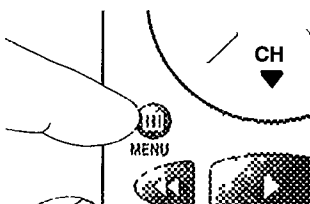
Press VOL + or VOL - to set the length of time you want the TV/VCR to remain on.



◀ Your timer choices are 10, 20, 30, 60, 90, 120, 240, or 360 minutes.

3

Press MENU twice to exit the Setup menu and return to normal viewing.



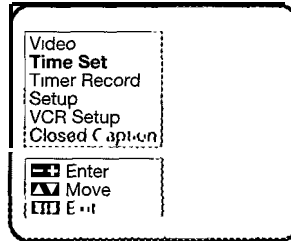
## ►Using the On/Off Timer

You can set your TV/VCR to turn on and off at times that you choose.

**1**

With the main menu on the screen, press **CH ▼** until "Time Set" is highlighted

Press **VOL +**.



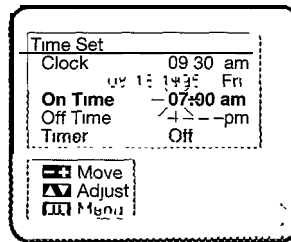
◀ For information on viewing the main menu, see page 3.2.

**2**

The Time Set menu will appear. Press **CH ▼** to highlight "On Time." Press **VOL +**.

Press **CH ▲** or **CH ▼** to set the hour when you want the set to turn on.

Press **VOL +**.

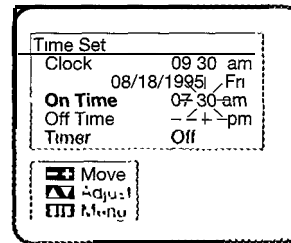


◀ If you want to set the Off Timer, select "Off Time" in this step and set the hour when you want the TV/VCR to turn off.

**3**

Press **CH ▲** or **CH ▼** to set the minute when you want the set to turn on

Press **VOL +**.

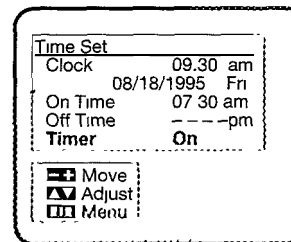


◀ If you are setting the Off Timer, set the minute when you want the TV/VCR to turn off.

**4**

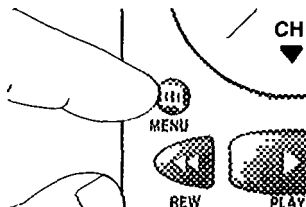
Press **CH ▲** or **CH ▼** to highlight "Timer".

Press **VOL +** to turn the timer on.



**5**

Press **MENU** twice to return to normal viewing.



◀ If you want to change the timer settings, follow the instructions in steps 1-3.

If you want to turn off the timer, set "Timer" to "off" in step 4.



# Chapter Four

## VCR OPERATION

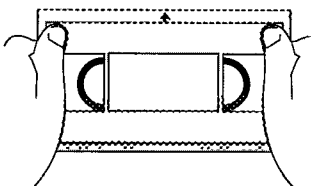
In this chapter, you will learn how to play a video cassette tape, how to use the time counter and memory stop features, and how to record a program as you are watching TV.

### ▶ Inserting and Ejecting a Video Cassette Tape

To insert a video cassette tape,

1

Hold the video cassette tape window side up with the arrow pointing away from you.



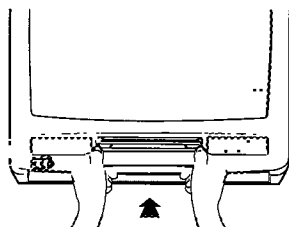
◀ Don't try to insert a tape upside down or backwards.

Use only video tapes labeled "VHS" European PAL VHS video tapes and S-VHS pre-recorded tapes aren't compatible with this unit. Choose brand name, high quality tapes for best results.

2

Gently push the tape through the compartment door until you feel the VCR pull it.

The TV/VCR loads the tape automatically.



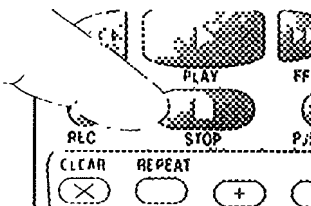
◀ If the power is off when you insert a tape, the TV/VCR turns on automatically.

If the safety tab of your video tape has been removed, the tape begins to play automatically. You don't have to press PLAY. For more information on the safety tab, see page A. 2.

To elect a video cassette tape,

1

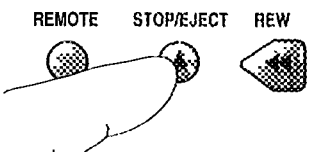
Press **STOP** to stop playing the tape.



◀ When you're finished playing a pre-recorded video tape, it's best to rewind it to the beginning and remove it from the TV/VCR to protect it from wear and tear.

2

Press **STOP/EJECT** on the control panel to eject the tape.



◀ After ejecting a tape, you should remove it completely from the compartment and turn off the TV/VCR.

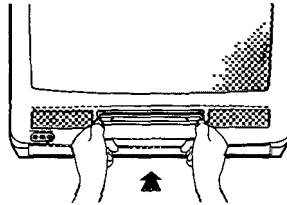
## VCR OPERATION

### ▶ Playing a Pre-Recorded Video Cassette Tape

#### Playing the Tape

1

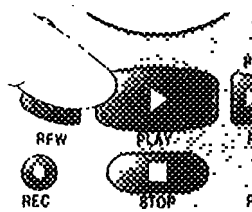
Install the video cassette tape.



◀ For information on inserting a video tape, see page 4.1.

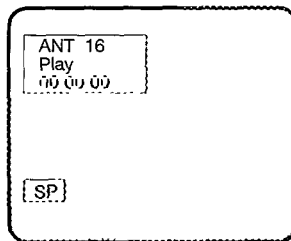
2

If the tape doesn't begin to play automatically, press **PLAY**.



The channel indicator, mode indicator, time counter, and tape speed appear on the screen for a moment.

Then, if necessary, the TV/VCR will automatically adjust the tape's tracking



◀ For information on automatic tracking, see page 4.3.

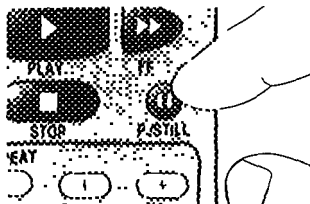
For information on the time counter, see page 4.4.

#### Pausing

1

While a tape is playing, press **P/STILL** when you want to interrupt play.

The tape pauses temporarily.

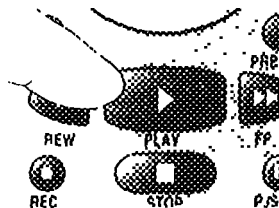


◀ The TV/VCR does not play sound while a video tape is paused.

See "Using Automatic Tracking" on the next page.

2

Press **PLAY** to resume playing the tape.



If the tape is still paused after five minutes, the TV/VCR automatically stops the tape and switches to the TV mode to protect the video heads from excessive wear.

## VCR OPERATION

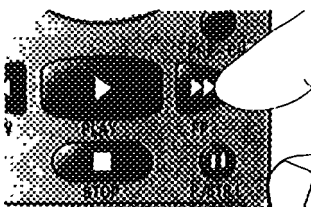
### Using Picture Search

Picture search lets you quickly search a pre-recorded video tape for a particular scene.

**1**

While playing a tape, press and release **FF** or **REW**.

The images from the tape are displayed on the screen at a high speed.



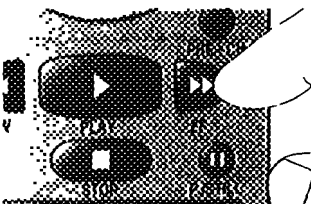
◀ For information on inserting and playing a tape, see pages 4.1 and 4.2.

There's no sound while you search for a picture at high speeds.

There may be some horizontal streaks on the screen while you search.

**2**

When you find the scene you want, press and release **FF** or **REW** again to resume playing the tape at regular speed.



This technique is good if you're searching through only a small amount of tape. If you want to search through a large amount of tape, stop the tape before pressing **FF** or **REW**.

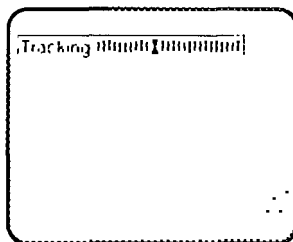
### Using Automatic Tracking

Automatic tracking adjusts a video tape's tracking automatically in just a few seconds.

**1**

Insert and play a video cassette tape.

As soon as the tape begins to play, the TV/VCR begins automatic tracking.

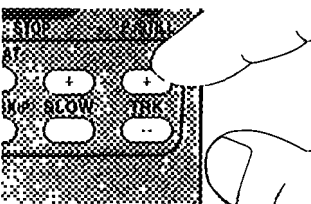


◀ For information on inserting and playing a tape, see pages 4.1 and 4.2.

The tracking display will appear the first time a tape is played after being placed in the TV/VCR, when there is a change in tape speed, or when you press the **TRK** buttons.

**2**

If automatic tracking doesn't remove the streaks from the picture, press and hold the **TRK +** or **TRK -** button until the streaks disappear.



◀ **Manual Tracking (Models CXD1334/CXD1934/CXD2514)**  
Use this control during playback if the image is partially obscured by bands of noise.

#### **Vertical Lock Control**

If necessary this control can be used to lock out vertical jitter in still mode.

#### **Slow Tracking Control**

Use this control during slow mode, if the image is partially obscured by bands of noise.

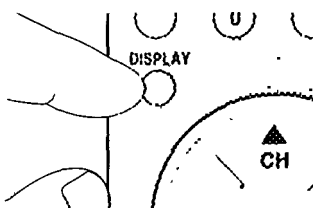
## VCR OPERATION

### Using the Time Counter

The time counter allows you to keep track of how much time (in hours, minutes, and seconds) has elapsed on the video tape you're watching. The counter can also be useful if you want to find a specific point on a pre-recorded tape.

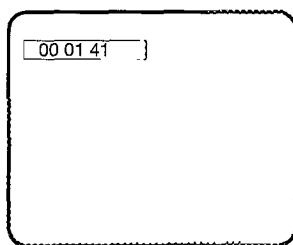
1

While a tape is playing, press **DISPLAY** twice.



◀ For information on inserting and playing tapes, see pages 4.1 and 4.2.

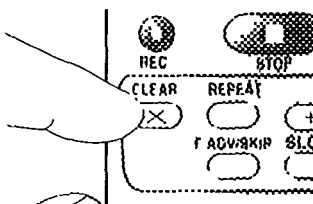
The time counter appears in the upper left corner of the screen.



◀ The counter displays time only for recorded sections of tape. Blank tapes or blank sections of tapes do not affect the counter display.

2

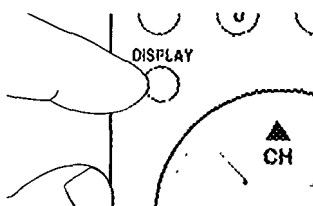
Press **CLEAR** to set the counter to "00:00:00".



◀ The TV/VCR automatically resets the counter to "00:00:00" when you eject a tape.

3

Press **DISPLAY** twice again to remove the time counter from the screen.



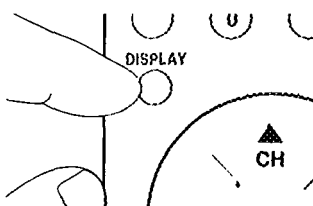
## VCR OPERATION

### Using Memory Stop

Memory stop makes it easy for you to find a particular scene in a video tape. The TV/VCR automatically stops rewinding or fast forwarding when the memory counter is at "00:00:00," so you simply need to mark the desired scene as "00:00:00." Then, you'll be able to search for that place the next time you watch the tape. To mark the scene,

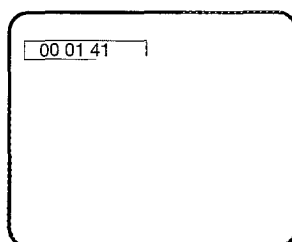
1

While playing a tape, when you reach the scene you want, press **DISPLAY** twice.



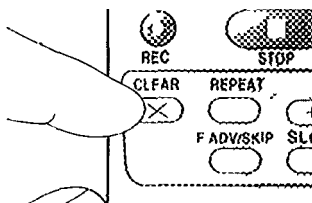
◀ For information on inserting and playing a tape, see pages 4.1 and 4.2.

The time counter appears in the upper left corner of the screen.



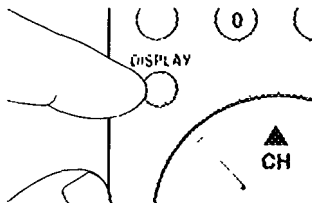
2

Press **CLEAR** to reset the timer to "00:00:00"

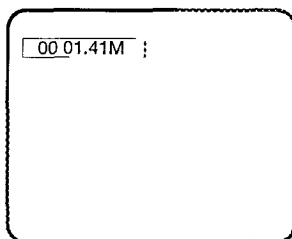


3

Press **DISPLAY** again to enter the scene into memory.



The letter "M" appears beside the time counter.



◀ If you want to remove the time counter memory from the screen and cancel the memory stop feature, just press **DISPLAY** again.

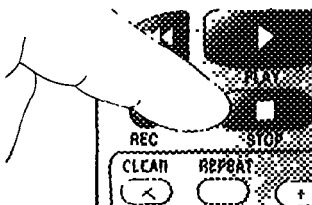
*continued...*

## VCR OPERATION

To return to the scene you marked,

**1**

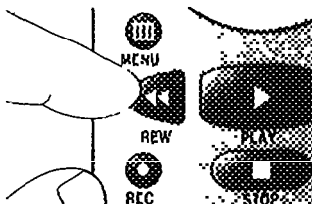
Press **STOP**.



**2**

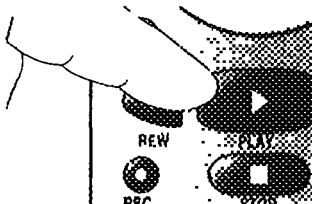
Press **FF** or **REW** to return to the scene you marked.

The TV/VCR stops the tape when the counter reaches "00:00:00M."



**3**

Press **PLAY** to view the scene again.



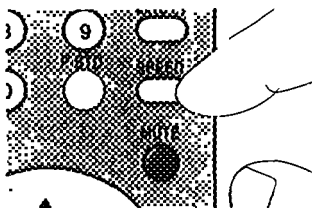
◀ For this feature to work, the time counter and the letter "M" must still be on the screen. If this isn't the case, press the **DISPLAY** button until the time counter and the letter "M" are both on the screen.

## Recording TV Programs As You Watch

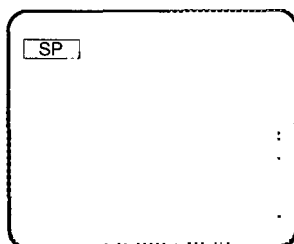
### Recording

**1**

With your TV/VCR turned on, and with a tape in the unit, press **SPEED**.



The tape speed appears in the upper left corner of the screen.



◀ For information on inserting a video tape, see page 4.1.

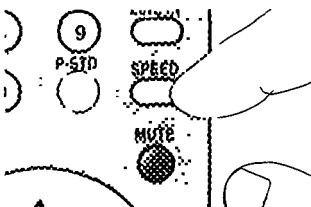
Be sure the record safety tab is in place. For information on the record safety tab, see page A.2.

◀ SP (Standard Play) is the most common speed for recording. For more information on tape speeds, see page A.2.

## VCR OPERATION

2

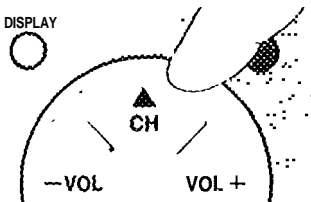
Press **SPEED** repeatedly until the speed you want (SLP, SP, or LP) appears.



◀ For more information on tape speeds, see page A.2.

3

Select the television channel you want by pressing **CH▲** or **CH▼** or by using the number buttons.

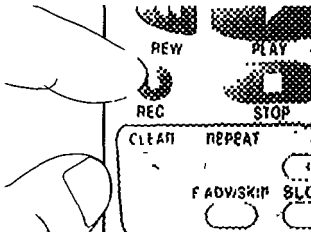


◀ If you are using the number buttons to select the channel, press 0 before a single-digit channel number. For example, to select channel 5, press 0,5.

4

Press the **REC** button on the remote control.

The record indicator on the control panel illuminates and the TV/VCR begins recording.



◀ The TV/VCR automatically stops recording when it reaches the end of the tape.

Press **STOP** at any time to stop recording.

We don't recommend changing tape speeds while a recording is in progress. Doing so may cause distortion of the picture during playback.

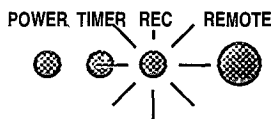
When you're finished recording, rewind the tape to the beginning and remove it from the TV/VCR to protect the tape.

### Editing While Recording

You can edit while recording, selecting only those scenes you want to record from the current television program. This is especially helpful if you want to record a program without the commercials.

1

Be sure you have begun recording and that the record indicator light on the front panel is illuminated.



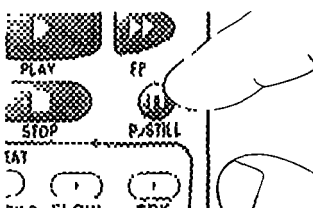
◀ For information on recording, see page 4.6.

*continued...*

## VCR OPERATION

2

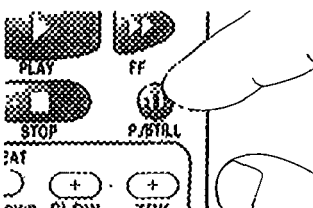
Press **P./STILL** to temporarily stop recording



◀ After five minutes in the pause mode, the TV/VCR automatically stops the tape and switches to TV mode to protect the video heads from excessive wear. If this happens, press **REC** to resume recording.

3

To resume recording, press **P./STILL** again.



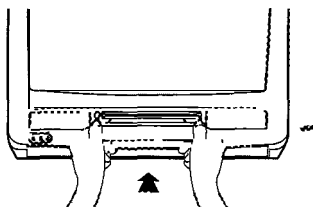
### ► Using Advanced Recording Features

#### Using One-Touch Recording

One-touch recording (OTR) lets you record television programs with the touch of a button. You can even program the length of time (up to four hours) that you want to record.

1

Insert a video cassette tape, set the tape speed, and select the channel you want to record.

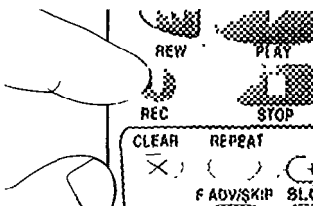


◀ For information, see “Recording Programs As You Watch” on page 4.6.

The TV/VCR won't record on a video cassette tape if the record safety tab on the tape has been removed. For information on the record safety tab, see page A.2.

2

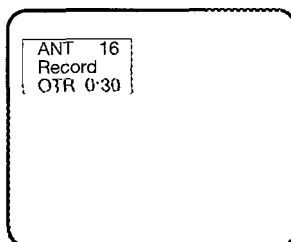
Press the **REC** button on the remote control three times.





## VCR OPERATION

The OTR time appears in the upper left corner.

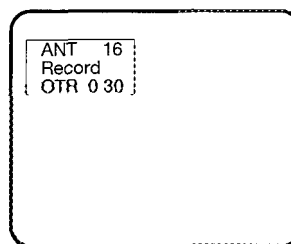
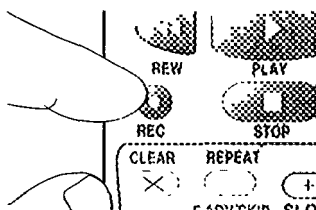


◀ Your recording time options are: 30 minutes, 1 hour, 1 hour and 30 minutes, 2 hours, 3 hours, or 4 hours.

3

Press the **REC** button on the remote control repeatedly until the time you want appears.

The TV/VCR begins recording



◀ You can increase the length of time you want to record at any time during the recording process by pressing the REC button again and choosing additional time.

If you want to stop recording before the time is up, press the REC button until the OTR display shows "0: 00 ". The recording stops after a few seconds. Or, press POWER on the front panel, then immediately press STOP/EJECT.

### Recording at a Later Time

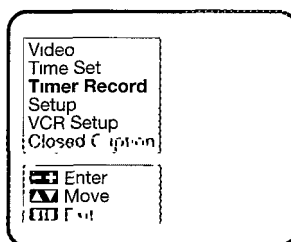
You can set the built-in timer for unattended recording of up to eight different TV programs. The timer can turn on the TV/VCR at the time you select, record for a selected length of time, and then turn off the TV/VCR - all without you being there.

You can also choose to record a program one time, daily (every day, Monday through Friday), or weekly (the same day every week ).

1

With the menu on the screen, press **CH ▾** until "Timer Record" is highlighted.

Press **VOL +**.



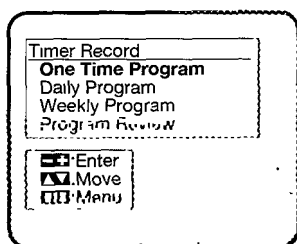
◀ For information on viewing the main menu, see page 3.2.

The clock must be set to the correct time and date before you program the timer. For more information on setting the clock, see page 3.5.

*continued...*

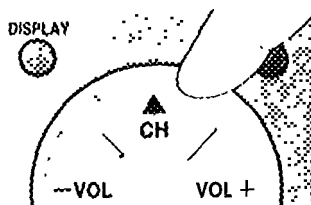
## VCR OPERATION

The Timer Record menu appears on the screen.

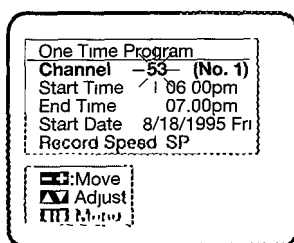


2

Use the CH ▲ or CH ▼ buttons to select One Time Program, Daily Program, or Weekly Program.

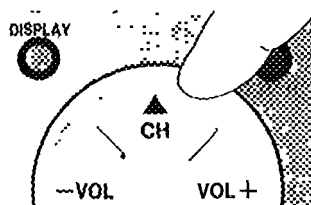


The One Time Programming screen appears. Press VOL +. The channel number will start blinking.



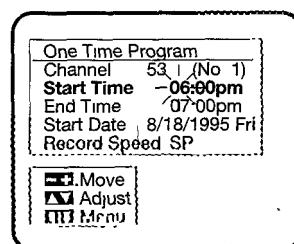
3

Use CH ▲ or CH ▼ to select the channel you want to record. Press VOL + to lock in the channel you've chosen.



Use CH ▼ to highlight "Start time". Press VOL +. The starting hour will blink.

Use CH ▲ or CH ▼ to select the hour when you want to begin recording.



◀ To stop a recording in progress, press POWER and then immediately press STOP/EJECT.

◀ The type of programming you choose will be displayed in the first line of the on-screen display. (In the example to follow, "One Time Program" has been chosen). The instructions for using the feature are the same regardless of which type of programming you have chosen.

◀ The TV/VCR assigns a program number (1-8) to your entry. This number, which appears to the right of the channel, is used in the program review feature. For information on program review, see page 4.13.

◀ If you make a mistake at any point during programming, press VOL - and CH ▲ until the number you want to change is flashing, then enter the correct number.

If you are recording a channel that comes through a cable converter box, enter the output number of the cable box.

## VCR OPERATION

4

Press **VOL +**. The starting minute will blink. Use **CH▲** or **CH▼** to select the minute when you want to begin recording. Press **VOL +** to lock in the minute. Press **CH▼** to highlight "End time."

One Time Program	
Channel	53 (No. 1)
Start Time	06:30pm
End Time	07:00pm
Start Date	8/18/1995 Fri
Record Speed	SP

Move  
 Adjust  
 Menu

5

Press **VOL +**. The ending minute will blink. Use **CH▲** or **CH▼** to select the hour when you want to end recording.

One Time Program	
Channel	53 (No. 1)
Start Time	06:30pm
End Time	07:00pm
Start Date	8/18/1995 Fri
Record Speed	SP

Move  
 Adjust  
 Menu

6

Press **VOL +**. The ending minute will blink. Use **CH▲** or **CH▼** to select the minute when you want to end recording. Press **VOL +** to lock in the minute. Press **CH▼** to highlight "Start date."

One Time Program	
Channel	53 (No. 1)
Start Time	06:30pm
End Time	07:15pm
Start Date	8/18/1995 Fri
Record Speed	SP

Move  
 Adjust  
 Menu

◀ The TV/VCR automatically selects AM or PM for the ending time.

7

Press **VOL +**. The month will blink. Use **CH▲** or **CH▼** to select the month when you want to begin recording.

One Time Program	
Channel	53 (No. 1)
Start Time	06:30pm
End Time	07:15pm
Start Date	8/18/1995 Fri
Record Speed	SP

Move  
 Adjust  
 Menu

8

Press **VOL +**. The date will blink. Use **CH▲** or **CH▼** to select the date when you want to begin recording.

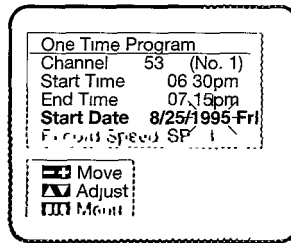
One Time Program	
Channel	53 (No. 1)
Start Time	06:30pm
End Time	07:15pm
Start Date	8/25/1995 Fri
Record Speed	SP

Move  
 Adjust  
 Menu

*continued...*

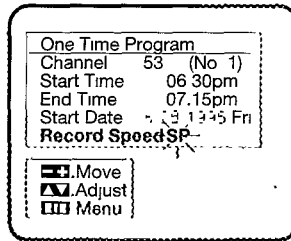
## 9

Press **VOL +**. The year will blink. Use **CH▲** or **CH▼** to select the year when you want to begin recording. Press **VOL +** to lock in the minute. Press **CH▼** to highlight "Record Speed."



## 10

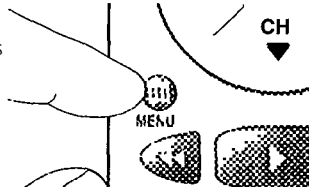
Press **VOL +**. The Recording speed will blink. Use **CH▲** or **CH▼** to select the speed at which you want to record. Press **VOL +** to lock in the record speed.



◀ For more information on selecting tape speeds, see pages 4.6, 4.7, and A.2.

## 11

Press **MENU** three times to exit the menu system and return to normal viewing.



◀ To enter additional program recording times, repeat steps 1-8.

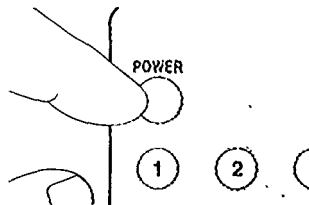
If you enter two program times that overlap, a program overlap warning appears on the TV screen, along with instructions for fixing the overlap.

The timer indicator on the front panel of the TV/VCR illuminates when program times have been stored.

The TV/VCR should be turned off to record the programs you've chosen.

## 12

Press **POWER** to turn off the TV/VCR.



### IMPORTANT:

- The TV/VCR should be off to record the programs you've chosen. But, if you are recording a channel that comes through a cable box, be sure to leave the cable box turned on and tuned to the channel you want to record.
- When a timer recording is in progress, there is no picture on the monitor because the power is off. If you want to watch the channel while it's being recorded, press **POWER** on the remote control only.
- One-time timer programs clear from memory automatically when the recording is finished. Daily and weekly programs remain in the timer until you remove them. If power to the TV/VCR is interrupted for more than 40 seconds, all programs will be removed from memory, until you reset the clock. Then, the programs will be restored.

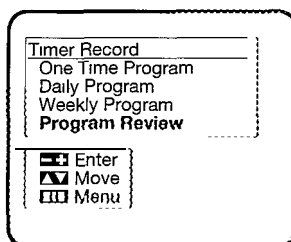
## VCR OPERATION

### Using Program Review

Program Review allows you to review all of the programmed recordings currently stored in the TV/VCR's memory and remove a programmed recording quickly and easily.

1

In the Timer Record Menu, press **CH ▼** to Select Program Review." Press **VOL+**

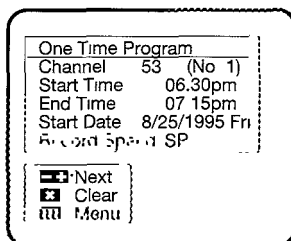


◀ For information on viewing the main menu and the timer record menu, see pages 3.2 and 4.9, respectively.

Program Review is only available if you have programmed your TV/VCR to record at a later time. For information on recording at a later time, see page 4.9.

The information for the first program appears on the screen.

To see the information for the next program number, press **VOL +** or **VOL -**.

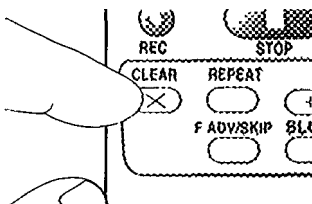


◀ If you're recording through a cable box, the Program Review screen displays the output channel of the cable box as the channel number to be recorded.

2

If you want to remove a program from memory, press **CLEAR** when the program you want to erase appears on the screen.

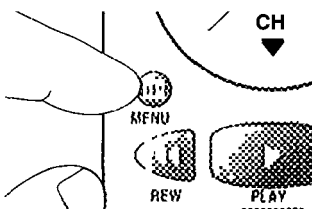
That program is erased from memory.



◀ The TV/VCR is equipped with a program memory backup that saves all the timer program information if the power to the TV/VCR is interrupted for less than 40 seconds. If the unit has been without power for more than 40 seconds, all of the timer program information will be lost, until you reset the clock. Then, the programs will be restored.

3

Press **MENU** to exit the menu system and return to normal viewing.



# Chapter Five

SPECIAL FEATURES

# Chapter Five

## SPECIAL FEATURES

In this chapter, you will learn how to use the demonstration mode, how to repeat sections of a tape, how to view closed captions, how to view a tape frame-by-frame or in slow motion, and how to re-record a video tape.

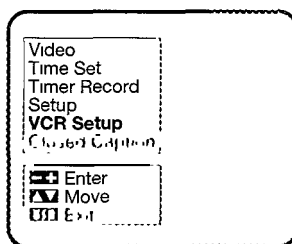
### Viewing the Demonstration Mode

The demonstration mode displays all on-screen menus and programmable features.

1

With the main menu on the screen, press **CH** ▼ until "VCR Setup" is highlighted.

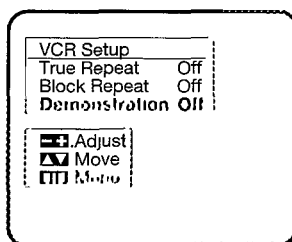
Press **VOL +**.



◀ For information on viewing the main menu, see page 3.2.

2

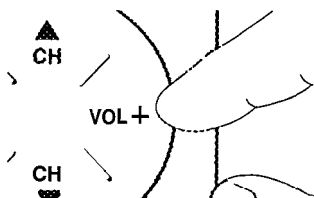
press **CH** ▼ until "Demonstration" is highlighted.



3

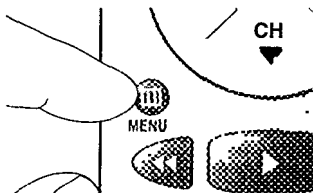
Press **VOL +**.

The TV/VCR cycles through the various menus and settings available.



4

Press **MENU** to exit the demonstration mode and return to normal viewing.



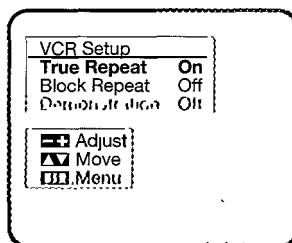
## Using True Repeat

You can set your TV/VCR to automatically repeat a tape or a section of tape. When you use True Repeat, your TV/VCR will play until it reaches the end of a tape. Then, it will rewind to the beginning of the tape and begin playing again.

1

With the VCR Setup menu on the screen, press **CH▲** or **CH▼** until "True Repeat" is highlighted.

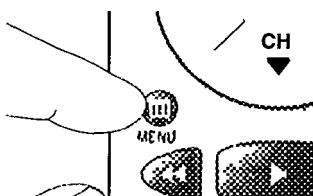
Press **VOL +** to turn True Repeat on.



◀ For information on viewing the main menu, see page 3.2. For information on viewing the VCR setup menu, see page 5.1.

2

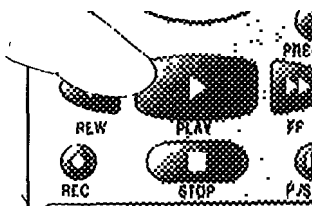
Press **MENU** twice to return to normal viewing.



3

Insert and play a pre-recorded video cassette tape.

The TV/VCR will play the tape until it reaches the end of the tape. Then, the TV/VCR will stop the tape, rewind it to the beginning, and begin playing again.

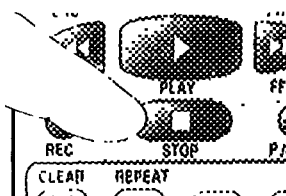


◀ For information on inserting and playing a tape, see pages 4.1 and 4.2.

If the TV/VCR reaches an unrecorded section of tape before it reaches the end, it will fast forward through 60 seconds of tape and check the tape again. If it finds a recorded section of tape, it will begin playing. If the tape is still blank, it will continue to search forward, in sixty second intervals, until it reaches the end of the tape.

4

Press **STOP** to end the repeat.





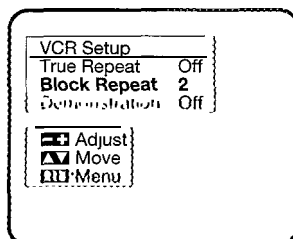
## ▶ Using Block Repeat

Block repeat allows you to repeat a section of tape that you select. You can repeat this section of tape (the "block") from one to ten times, or endlessly.

**1**

With the VCR Setup menu on the screen, press **CH** until "Block repeat" is highlighted

Press **VOL +** to select the number of times you want your "block" to repeat.

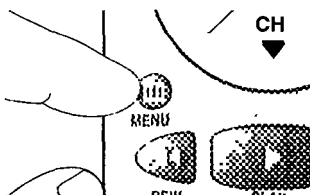


◀ For information on viewing the menu, see page 3.2. For information on viewing the VCR setup menu, see page 5.1.

You can choose to have your "block" repeat from one to ten times, or endlessly.

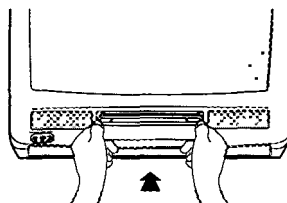
**2**

Press **MENU** twice to return to normal viewing



**3**

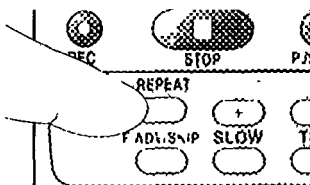
Insert and play a pre-recorded video cassette tape.



◀ For information on inserting and playing a tape, see pages 4.1 and 4.2.

**4**

Press **REPEAT** at the beginning of the "block" you want to repeat.

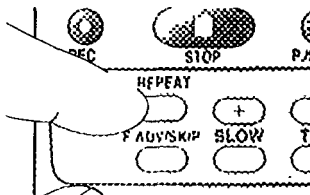


**5**

When you reach the end of the "block," press **REPEAT** again.

The TV/VCR will rewind the tape to beginning of the block and repeat it.

The TV/VCR will repeat the block as many times as the number you set in step 1.



◀ The word "Repeat" will appear on the screen.

To stop block repeat, press the **STOP**, **P/STILL**, or **POWER** buttons. You can also cancel block repeat by fast forwarding or rewinding to a point outside the "block".

## SPECIAL FEATURES

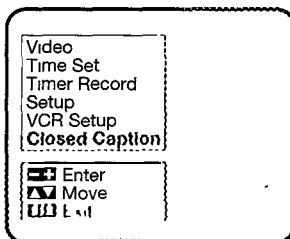
## Viewing Closed Captions

Your TV/VCR decodes and displays the closed captions that are broadcast with some television shows. These captions are usually subtitles for the hearing impaired or translations into another language. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for this closed caption symbol in your television schedule and on the tape's packaging. **CC**

1

With the main menu on the screen, press **CH ▼** until "Closed Caption" is highlighted.

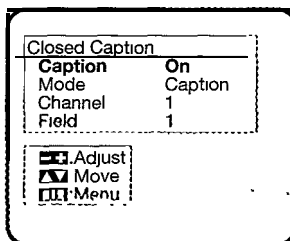
Press **VOL +**



◀ For information on viewing the main menu, see page 3.2.

2

Press **VOL +** to turn the Closed Caption feature on.



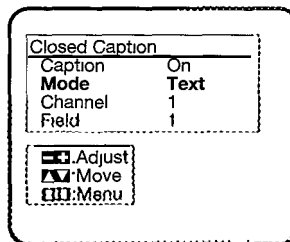
◀ Misspellings and unusual characters sometimes occur in closed caption transmissions, especially those of live events.

There may be a small delay before captions appear when you change channels.

3

Press or **CH ▼** to highlight "Mode."

Press **VOL +** to choose "captions" or "text".

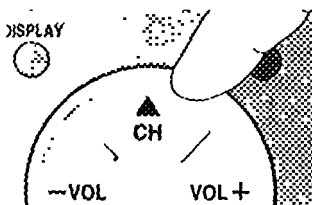


◀ Captions usually appear at the bottom of the screen, and they often cover only a small portion of the picture.

In text mode, information unrelated to the captions is displayed, such as news or weather. Text often covers a large portion of the screen.

4

If you wish, use **CH ▲**, **CH ▼**, or **VOL +** to change the channel or held. Then, press **MENU** to return to normal viewing.



◀ Different channels display different information. For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.

The second field contains additional information that could not be included in the first field.

## ► Using Special Playback Features

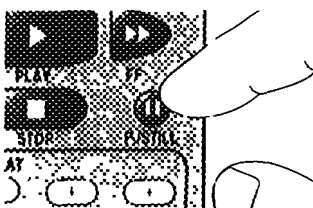
Your TV/VCR provides you with special features that are available when you are playing a tape. These features are Frame Advance, Skip Search, and Slow Motion. (These features are only available on models CXD1334, CXD1934, and CXD2514 ).

### Frame Advance

Frame advance allows you to watch a tape frame-by-frame.

1

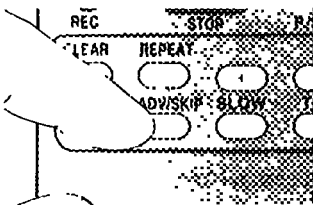
While a tape is playing, press **P./STILL**.



◀ If the picture is jittery or shows noise, try using the TRK buttons to clear the picture. See page 4.3 for more information.

2

Press **F.ADV/SKIP** repeatedly to move forward frame-by frame. Do not hold the button down.



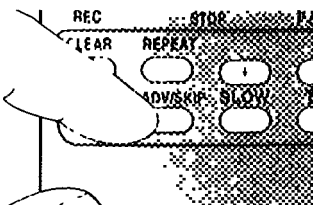
◀ Press **PLAY** to resume normal playback.

### Skip Search

Skip search allows you to quickly search through a short section of tape

1

While a tape is playing, press **F.ADV/SKIP**. The TV/VCR will fast-forward through the tape for 60 seconds, then continue playing.



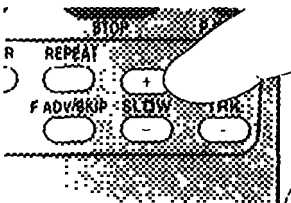
◀ If you press **F.ADV/SKIP** twice, the TV/VCR will fast forward through the tape for 120 seconds.

### Slow Motion

You can watch a tape at various slow-motion speeds

1

While a tape is playing, press **SLOW +** or **SLOW -** on the remote control.



◀ If the picture is jittery or shows noise, try using the TRK buttons to clear the picture. See page 4.3 for more information.

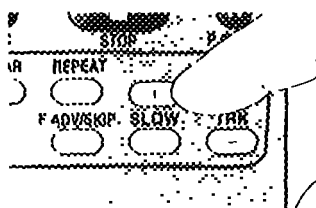
continued...

## SPECIAL FEATURES

2

Press **SLOW +** or **SLOW -** to adjust the slow motion speed between 1/5 and 1/60 normal speed.

Press **PLAY** to resume normal play.



◀ The tape's sound is not played during slow motion play.

It is normal to occasionally see some streaks or jitter during slow motion play.

If slow motion continues for more than five minutes, the TV/VCR may stop automatically to protect the tape and the video heads.

## Video Dubbing

You can make a copy of another video cassette tape. This is called "dubbing" To dub, you need.

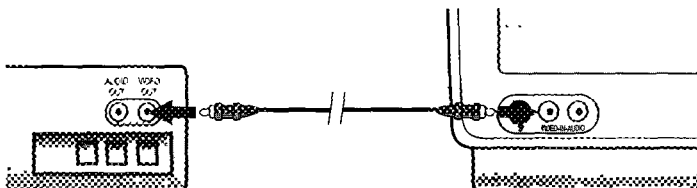
- your TV/VCR
- a separate VCR (or camcorder), and
- two A/V cables with connectors. (You can find these at most electronics supply stores.)

We recommend that you play the pre-recorded tape in the separate VCR (or camcorder) and record on your TV/VCR.

### Making the Connections <Option>

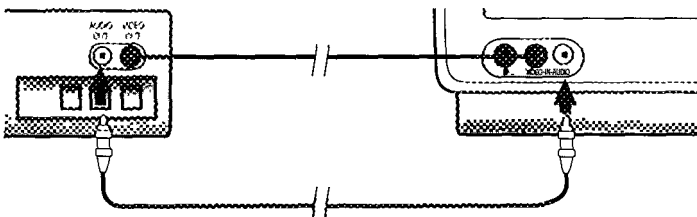
1

Attach one end of the first cable to the VIDEO OUT connector of the playback VCR (or camcorder) and the other end to the VIDEO IN connector of the TV/VCR.  
(For models CXE1331, CXE1931, CXD2512 and CXD2514, there are also connectors on the back of the TV/VCR.)



2

Attach one end of the second cable to the AUDIO OUT connector of the VCR (or camcorder) and the other end to the AUDIO IN connector of the recording TV/VCR.  
(For models CXE1331, CXE1931, CXD2512 and CXD2514, there are also connectors on the back of the TV/VCR.)

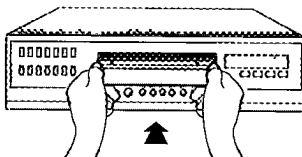


## SPECIAL FEATURES

### Video Dubbing

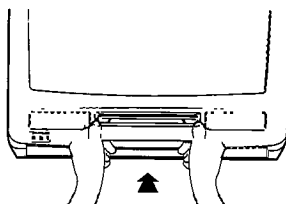
1

Insert the video cassette tape you want to copy into the playback VCR (or camcorder).



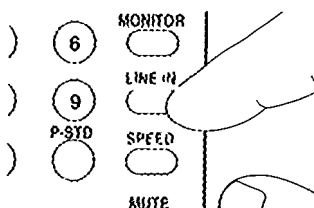
2

Insert a blank video tape (or any video tape with the record safety tab intact) into the recording TV/VCR.

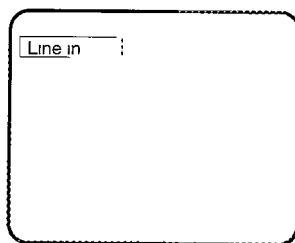


3

Press **LINE IN** on the remote control of the recording TV/VCR.



The words, "Line in" appear in the upper left corner of the TV/VCR screen.



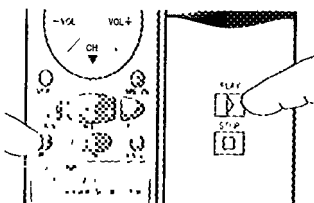
◀ Important Warning: One Federal Court has held that unauthorized recording of copyrighted TV programs may be an infringement of copyright laws.

◀ The TV/VCR will be recording from the incoming line rather than from the normal broadcast signal.

"Line in" will remain on-screen until the **PLAY** button is pressed on the playback VCR.

4

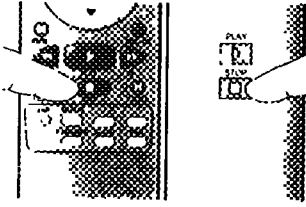
To begin recording, simultaneously press the **REC** button on the recording TV/VCR remote control and **PLAY** on the playback VCR (or camcorder).



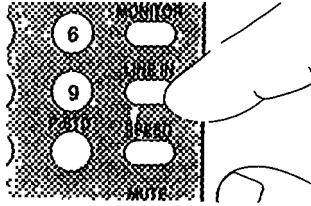
*continued...*

**5**

When you are finished, press **STOP** on both the VCR (or camcorder) and the TV/VCR to stop recording.

**6**

Press **LINE IN** to return to normal TV viewing.



# Chapter Six

## TROUBLESHOOTING

Before you call a repair person for your TV/VCR, please scan this list of possible problems and solutions. It may save you time and money.

### Identifying TV Problems

Problem	Possible Solution
Poor picture, no picture, blurred picture, or blue screen.	Try another channel. Make sure the unit is plugged into a working wall outlet. Adjust the antenna. Press LINE IN. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections.

### Identifying VCR Problems

Problem	Possible Solution
Unit won't turn on.	Make sure the unit is plugged into a working wall outlet. Press the POWER button.
Unit won't take video tape.	Make sure the tape is window-side up with the arrow pointing away from you. Make sure there's no other tape in the compartment.
Unit didn't record a program.	Make sure the antenna or cable is connected and that the TV/VCR is receiving the broadcast signal. Make sure the record safety tab is intact.
Unit didn't record a timer program.	Make sure the unit was turned off. Check the programmed start and stop times. Make sure the time is set correctly.
There is no picture, the picture is distorted during video tape playback, or there is noise or streaks in the picture.	Adjust the tracking. Clean the video heads. Make sure there has been a recording on the tape.

## TROUBLESHOOTING

Problem	Possible Solution
You can't receive regular broadcasts.	Check the antenna or cable connections.
Rewind command doesn't work.	Make sure the VCR is not in pause mode. Make sure the tape hasn't already been rewound.
Fast forward command doesn't work.	Make sure the VCR is not in pause mode. Make sure the tape hasn't already been forwarded.
Picture is streaked during pause mode.	This is normal for SP and LP recordings.

### Getting Help

If you have a problem you can't solve by yourself, just call our toll-free help number and our experts will be glad to help you

**1-800-SAMSUNG**

**(1-800-726-7864)**



## ►Guía de consulta rápida

### Reproducción de cinta

#### Reproducción

POWER + introducción cinta + PLAY

#### Fin de reproducción

STOP

#### Pausa

POWER + introducción cinta + PLAY + P/STILL

#### Fin de pausa

PLAY

#### Uso de búsqueda de imagen

POWER + introducción cinta + PLAY + FF o REW

#### Fin de búsqueda imagen

PLAY

#### Uso del contador de tiempo

POWER + introducción cinta + PLAY + DISPLAY +  
DISPLAY + CLEAR

#### Fin de uso del contador

DISPLAY + DISPLAY

#### Uso de parada memoria

##### marcar la escena

POWER + introducción cinta + PLAY + DISPLAY +  
DISPLAY + CLEAR + DISPLAY

#### Uso de parada memoria

##### localización de la escena

STOP + FF o REW (cuando la cinta está parada)

#### Uso repetición real

POWER + introducción cinta + MENU + CH▼ +  
CH▼+CH▼+CH▼ + VOL+ + VOL+ + MENU +  
MENU + PLAY

#### Uso repetición de bloque

POWER + introducción cinta + MENU + CH▼ +  
CH▼+CH▼+CH▼ + VOL+ + CH▼+VOL+  
(repetidas veces) + MENU + MENU + PLAY + REPEAT  
(al inicio del bloque) + REPEAT (al final del bloque)

### Grabación

#### Grabación

POWER + introducción cinta + SPEED +  
seleccionar canal + REC

#### Fin de grabación

STOP

#### Edición

POWER + introducción cinta + SPEED +  
seleccionar canal + REC + P/STILL

#### Fin de edición

P/STILL

#### Grabación una pulsación

POWER + introducción cinta + SPEED + seleccionar  
canal + REC dos veces + REC repetidas veces

#### Fin de grabación una pulsación

POWER + STOP/EJECT

## Grabación diferida

POWER + introducción cinta + MENU + CH▼ (dos veces) + VOL+ + CH▼ (introducir frecuencia) + VOL+ (dos veces) + CH▼ o CH▲ (introducir canal) + VOL+ + CH▼ + VOL+ + CH▼ o CH▲ (introducir hora) + VOL+ + CH▼ o CH▲ (introducir minuto) + VOL+ + CH▼ + VOL+ + CH▼ o CH▲ (introducir hora) + VOL+ + CH▼ o CH▲ (introducir minuto) + VOL+ + CH▼ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ + VOL+ + MENU + MENU + MENU + MENU

## Uso de revisión de programas

POWER + introducción cinta + MENU + CH▼ + CH▼ + VOL+ + CH▼ + CH▼ + CH▼ + VOL+ + VOL+ + CLEAR

Fin de grabación diferida  
POWER

## Fin de revisión de programas

MENU + MENU + MENU

## Visualización de pantallas y menús

## Visualización en pantalla

POWER + DISPLAY

## Visualización de menú principal

POWER + MENU

## Visualización menú VCR

POWER + MENU + CH▼ + CH▼ + CH▼ + CH▼ + VOL+

## Fin de visualización en pantalla

DISPLAY + DISPLAY + DISPLAY

## Fin de menú principal

MENU

## Fin de menú VCR

MENU + MENU

## Programación

## Selección de serial

POWER + MENU + CH▼ + CH▼ + CH▼ + VOL+ + VOL+

## Almacenamiento canales

POWER + MENU + CH▼ + CH▼ + CH▼ + VOL+ + CH▼ + VOL+

## Añadir y suprimir canales

POWER + seleccionar canal + MENU + CH▼ + CH▼ + CH▼ + VOL+ + CH▼ + CH▼ + VOL+

## Ajuste del reloj

POWER + MENU + CH▼ + VOL+ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL+

## Combio de ajustes de imagen personalizada

POWER + MENU + VOL+ + CH▼ (repetidas veces) + -VOL o VOL+

Uso de ajustes de imagen estándar

POWER + P-STD (repetidas veces)

Ajuste del temporizador de dormir

POWER + MENU + CH▼ + CH▼ + CH▼ + VOL+ +

CH▼ + CH▼ + CH▼ + VOL+ (repetidas veces)

Uso de las funciones especiales

Visualización de capturas

POWER + CAPTION + CH▼ + CH▼ + CH▼ +

CH▼ + CH▼ + VOL+ + VOL+

Fin de capturas

CAPTION + CAPTION

Selección de un idioma de menú

POWER + MENU + CH▼ + CH▼ + CH▼ + VOL+ +

CH▼ + CH▼ + CH▼ + CH▼ + VOL+ (repetidas veces)

Encendido del temporizador

POWER + MENU + CH▼ + VOL+ + CH▼ + VOL+ +

CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL + CH▼

+ CH▼ + VOL+

Apagado del temporizador

POWER + MENU + CH▼ + VOL+ + CH▼ + CH▼ +

VOL+ + CH▼ o CH▲ + VOL+ + CH▼ o CH▲ + VOL

+ CH▼ + VOL+

## Appendix

## ► Cleaning and Maintaining Your TV/VCR

With proper care, your TV/VCR unit will give you many years of service. Please follow these guidelines to get the maximum performance from your TV/VCR.

### Placement

- Do not place the TV/VCR near extremely hot, cold, humid or dusty places.
- Do not place the TV/VCR near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear, do not place the TV/VCR on a soft surface, such as cloth or paper.
- Place the TV/VCR in a vertical position only.

### Liquids

- Do not handle liquids near or on the TV/VCR. Liquids that spill into it can cause serious damage.

### Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV/VCR with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

### Video Heads

- Obtain a head cleaning tape from your local video dealer to clean dirt that accumulates on the video heads.
- Be sure to follow instructions that come with the cleaning tape, as excessive use of a cleaning tape can shorten head life.

### Temperature

- If your TV/VCR is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed on the tape and inside the unit to dry completely.

## ► Learning About Video Cassette Tapes

### Choosing the Proper Tapes

Use only video cassette tapes marked VHS with this TV/VCR. Choose good quality tapes for best results.

### Caring for Video Cassette Tapes

- Keep the tapes away from direct sunlight, heat or extreme cold.
- Insert tapes with the window side up and the arrow pointing away from you.
- Do not subject tapes to violent vibrations or shocks.
- Never try to take apart or splice a video tape.
- Do not open the cassette, touch the tape, or put anything inside the video tape cartridge.
- Read the instructions supplied with a video tape.

### Choosing the Correct Recording Speed

Your TV/VCR is equipped with variable tape speed. You can play or record a tape at.

- **SP** (Standard Play)– the fastest speed,
- **LP** (Long Play), or
- **SLP** (Super Long Play)– the slowest speed

When you are playing a tape, your TV/VCR automatically selects the proper speed, even if segments of the tape have been recorded at a different speed

When you are recording, the slower the tape speed you use, the longer the tape runs and the more program material it holds SP provides the clearest record/playback picture, but special effects such as still picture work best in the SLP mode

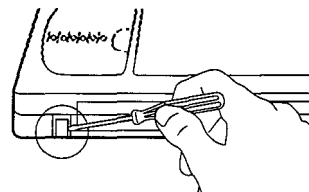
Use this chart to determine which tape speed to select when you are recording

TAPE	SP	LP	SLP
T-60	1hr.	2hrs.	3hrs.
T-120	2hrs.	4hrs.	6hrs.
T-160	2hrs. 40 mins.	5hrs 20 mins.	8hrs.

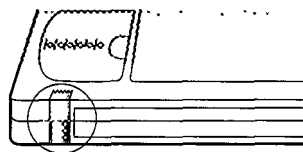
### Using the Record Safety Tab

Most video cassette tapes have a safety tab that prevents accidental erasure. The safety tab is on the end of the tape opposite from where the arrow points.

The tab must be intact to record You can record over and over on the same tape as long as the tab is intact. If you want to protect a tape from accidental erasure, break off the tab with a screwdriver, as shown here.



If you wish to erase a recorded tape or to record on a cassette with the tab removed, cover the hole with cellophane tape.



### Sending Tapes to Another Country

Because various TV standards are used throughout the world, we recommend that you check for compatibility before sending your tapes to a foreign country Tapes made on machines sold in the U. S. A can be played back only on units that use the NTSC television system.

### Using Your TV/VCR in Another Country

If you plan to take your TV/VCR with you to a foreign country, be aware of the different television systems that are in use around the world. A TV/VCR designed for one system may not work properly with another system due to differences in the TV channel frequencies.

## APPENDIX

### Specifications

Format	VHS Standard
Recording System	Rotary, azimuth two-head helical scanning system
	Luminance FM azimuth recording
	Color signal converted subcarrier phase shift recording
Television System	NTSC-type color signal EIA Standard (525 lines, 60 fields)
Audio Track	1 track
Tape Width	12.7 mm (1/2 inch)
Record Speed	
SP	33.35 mm/s (1.31 in./s)
LP	16.67 mm/s (0.66 in./s)
SLP	11.12 mm/s (0.43 in./s)
Record/Playback Time	480 min with T-160 used in SLP mode
FF/Rew Time	Less than 3 min. with T-120
Heads	Video: 2 rotary heads, 4 rotary heads (CXD1334/1934/2514)
	Audio/Control : 1 stationary head
	Erase: 1 full track erase
	1 audio track erase
VIDEO	
Input	VIDEO IN jack (RCA) 1 OVp-p, 75-ohm unbalanced
Signal-to-Noise Ratio	better than 43dB
Horizontal Resolution	Color/Monochrome more than 220 lines
AUDIO	
Input	VIDEO IN lack (RCA) -8dBm, 50K-ohm unbalanced
Signal-to-Noise Ratio	
SP	better than 42dB
LP	better than 40dB
SLP	better than 40dB
Frequency Response	
SP -6dB	100Hz - 10 KHz
LP -6dB	100Hz - 6KHz
SLP -6dB	100Hz - 5KHz
TV Tuners	VHF input Ch. 2-Ch.13, Cable channels "4A, A~W, W+1~W+84, A-5-A-I"
	75-ohm unbalanced
	UHF input Ch. 14-Ch. 69
	VHF, UHF one input 75-ohm unbalanced
	120V AC, 60 Hz
Power Requirement	
Power Consumption	
CXE1331/CXD1332/CXD1333/CXD1334/1342	Approx. 70 watts when on, Approx. 10 watts when off
CXE1931/CXD1932/CXD1933/CXD1934/1942	Approx. 85 watts when on, Approx. 10 watts when off
CXD2512/CXD2514	Approx. 120 watts when on, Approx. 10 watts when off
Operating Temperature	41°F-104°F (5°C-40°C)
Operating Humidity	10%-75%
Dimensions (W x D x H)	
CXE1331/CXD1332/CXD1333/CXD1334/1342	362 x 382.5 x 382 mm; 14.25 x 15.06 x 15.04 inches
CXE1931/CXD1932/CXD1933/CXD1934/1942	482 x 450 x 479 mm; 18.97x 17.72 x 18.86 inches
CXD2512/CXD2514	627 x 501.5 x 587.5 mm; 24.68 x 19.75 x 23.13 inches
Weight	
CXE1331/CXD1332/CXD1333/CXD1334/1342	12.5 kg; 27.56 lbs.
CXE1931/CXD1932/CXD1933/CXD1934/1942	20.5 kg; 45.2 lbs.
CXD2512/CXD2514	32.5 kg; 71.65lbs.

Equipment specifications are subject to change without notice

# Index



## Symbols

2-way splitter 2.3  
 300-ohm flat twin  
   lead 2.1  
 300-75 ohm adaptor  
   1.3, 2.1  
 75-ohm round lead 2.1-2

## A

A/B switch 2.3-4  
 A/V cables 5.6  
 accessories 1.3  
 adaptor 1.3, 2.1  
 Add 3.5  
 adding and erasing chan-  
   nels in memory 3.4  
 Adjust 3.2  
 advanced recording fea-  
   tures 4.8  
 Air/Cable 3.3  
 ANT 3.1  
 antenna 1.1, 1.3, 2.1-2  
 antenna mount 2.1-2  
 attachments *Safety.1*  
 audio 5.6, A.3  
 AUDIO IN 1.2, 5.6  
 AUDIO OUT 5.6  
 audio track A.3  
 Auto Program 3.4  
 automatic tracking 4.3

## B

batteries 2.4  
 block 5.3  
 Block Repeat 5.3  
 brightness 3.7  
 Bright 3.7

## C

cabinet safety. 1, A.1  
 cable HRC, IRC, STD 3.3  
 cable TV system 2.3, 3.3  
   scrambled channels 2.3  
   with a converter  
     box 2.3  
   without a converter  
     box 2.3

cable wire 2.3-4  
 calendar 3.5  
 Caption 5.4  
 care *Safety.1, A.1*  
 caring for Video cassette  
   tapes A.1  
 changing tape  
   speeds 4.6-7, A.2  
 CH▲, CH▼ 1.2, 3.3-4  
 channels  
   adding and erasing 3.4  
   changing 1.4, 3.3-4  
   storing 3.3-4  
 choosing picture settings  
   3.7  
 choosing recording speed  
   4.6-7, A.2  
 choosing video cassette  
   tapes 4.1, A.1  
 cleaning A.1  
 CLEAR 1.4, 4.4-5  
 Clock 3.5  
 closed captions 5.4  
 coaxial cable 2.1, 2.3  
 Color 3.7  
 combiner 2.2  
 connections  
   antennas to TV/VCR  
     2.1  
   cable TV system to  
     TV/VCR 2.3  
   VCR to VCR for  
     re-recording 5.6  
 connectors 5.6  
 Contrast 3.7  
 converter box 2.3  
 copyright laws 5.7  
 Custom 3.8  
 customizing picture  
   settings 3.7

## D

date 3.6  
 Dally Program 4.10  
 dally recording 4.9-12  
 demonstration mode 5.1  
 DISPLAY 1.4, 4.4-5  
 display, on-screen 4.10-11  
 dubbing 5.6-8

## E

earphone 1.2  
 editing while  
   recording 4.7  
 EJECT 1.4  
 ejecting a video cassette  
   tape 4.1, 4.4  
 English 3.2  
 Enter 3.2  
 entering the date 3.6  
 entering the time 3.5-6  
 Erase 3.5  
 erasing a channel in  
   memory 3.4  
 erasing a programming  
   mistake 3.4-5  
 Exit 3.2

## F

F.ADV/SKIP 1.4, 5.5  
 fast forward 1.4, 4.3  
 features 1.1  
 FF 1.4, 4.3  
 flat twin lead 2.1  
 foreign country  
   sending tapes to a A.2  
   using the TV/VCR  
     in a A.2  
 format A.3  
 Frame Advance 5.5  
 front panel 1.2

## G

grounding, *Safety.2*

## H

heads A.3  
 help 6.2  
 humidity A.3  
 |  
 inserting a video cassette  
   tape 4.1  
 installation 2.1  
 installing batteries 2.4

## L

language. choosing 3.2  
 lead 1.3, 2.1-2  
 lightning *Safety.2*  
 LINE IN 1.4, 5.7-8  
 liquids A.3  
 long play (LP) 4.7, A.2-3

## M

magnetic fields A.1  
 main menu 3.2  
 maintenance A.1  
 MEMORY 3.3-4  
 memory backup 3.8  
 memory stop 4.5  
 MENU 1.4, 3.2-5.3, 7-8,  
   3.10  
 menu language 3.2  
 mistakes, erasing  
   programming 3.4  
 Mode 5.4  
 moisture A.1  
 MONITOR 1.4  
 mounting *Safety.1*  
 Move 3.2  
 MUTE 1.4

## N

National Electrical  
   Code *Safety.2*  
 NTSC A.5  
 number buttons 1.4

## O

On/Off Timer 3.10  
 on-screen display 3.1-2  
 one-touch recording 4.8  
 one-time program  
   4.10  
 one-time recording  
   4.9-12  
 operation 4.1  
 OTR 4.8  
 outdoor antenna *Safety.2*  
 overhead power  
   lines *Safety.2*

## P

P/STILL 1.4, 4.2  
P-STD 1.4, 3.8  
packing list 1.1  
parts 1.1, *Safety.2*  
pausing 1.4, 4.2  
pause/still 1.4, 4.2  
picture 3.7  
picture search 4.3  
picture settings 3.7  
    customizing 3.7  
    using standard 3.8  
PLAY 1.2, 1.4, 4.2  
playing a video cassette  
    tape 4.2  
plugs *Safety.2*  
polarization *Safety.2*  
POWER 1.2, 1.4  
power consumption A.3  
power cord *Safety.2*  
power requirement A.3  
power sources *Safety.1*  
power/timer 4.12  
PRE-CH 1.4  
problems, fixing 6.1-2  
program number 3.4  
program overlap 4.12  
Program Review 4.13  
programming  
    channels 3.3

## Q

quick reference,  
    Spanish 7.1  
quick reference card 1.1

## R

re-recording 4.13  
rear panel 1.3  
REC 1.2, 1.4, 4.7  
record 4.6  
record light 1.2, 4.7  
record safety tab A.2  
record speed 4.12, A.3

record/playback time A.3  
recording  
    advanced 4.8  
    as you watch TV 4.6  
    at a later time 4.9  
    editing while 4.7  
    one-touch 4.8  
    problems 6.1  
recording speed 4.6-7,  
    A.4  
registration card 1.1  
remote control 1.1-2, 1.4  
remote sensor 1.2  
REPEAT 5.3  
replacement parts  
    *Safety.2*  
REW 1.4, 4.3  
rewind 1.4, 4.3  
RF (A/B) switch 2.3  
rod antenna 1.3, 2.1-2  
round lead 2.1

## S

safety check *Safety.1-2*  
safety information  
    *Safety.1-2*  
safety tab A.2  
SAMSUNG *Safety.1*, 6.2  
scrambled channels 2.3  
selecting the menu  
    language 3.2  
selecting the signal  
    source 3.3  
sending tapes A.2  
service *inside back cover*  
setting the clock and cal-  
    endar 3.5  
setting the time  
    counter 4.4  
setting the sleep  
    timer 3.9  
Setup 3.2  
Sharpness 3.7  
signal source 3.3  
skip search 5.5

Sleep 3.9  
sleep timer 3.9  
SLOW 1.4, 5.5-6  
Slow Motion 5.5  
SLP 4.7, A.2  
SP 46-7, A.2  
Spanish 3.2, 7.1-2  
Spanish quick reference  
    guide 7.1  
special features 5.1  
specifications A.3  
SPEED 1.4, 4.6-7  
splitter 2.3  
Standard 3.8-9  
standard play 4.6-7, A.2  
standard picture  
    settings 3.8  
STOP 1.4  
STOP/EJECT 1.2  
storing channels in  
    memory 3.3  
subtitles 5.4  
super long play 4.7, A.2

## T

tape compartment 4.1  
tape speed 4.6-7, A.2  
tape width A.3  
tapes A.2-3  
television system 2.3, A.3  
temperature *Safety.1*, A.3  
terminal 2.2  
Text 5.4  
time counter 4.4  
time 3.5  
time set 3.5  
timer 1.2, 3.10  
Tint 3.7  
TRK 1.4, 4.3  
tracking 4.3  
troubleshooting 6.1-2  
True Repeat 5.2  
TV problems, fixing 6.1  
TV standards A.3  
TV tuners A.3

## U

UHF antennas 1.3, 2.1-2  
using the TV/VCR in  
    another country A.2

## V

VCR menu 4.9-1.3, 5.1  
VCR problems, fixing  
    6.1-2  
VCR Setup 5.1  
ventilation *Safety.1*  
VHF antenna 1.1, 1.3,  
    2.1-2  
VHF antenna mount 1.3,  
    2.1-2  
VHF/UHF antenna termi-  
    nal 1.3  
video 4.1, 5.6, A.3  
Video 3.7  
video cassette tape  
    compartment 4.1  
video cassette tapes A.1-3  
    caring for A.1  
    choosing A.1-2  
    compatibility A.2  
video dubbing 5.6-7  
video heads A.3  
VIDEO IN 5.6  
VIDEO OUT 5.6  
▲ VOL ▼ 1.2, 1.4  
volume 1.2, 1.4

## W

warranty *inside back  
    cover*  
Weekly Program 4.9-13  
weekly recording 4.9-13  
weight A.3  
wireless remote  
    control 1.1, 1.4  
    sensor 1.2

# Warranty Information

## Limited Warranty

Samsung Electronics America, Inc, (hereafter referred to as SEA), warrants that this product is free from defective material and workmanship.

SEA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SEA will repair or replace the product at its option.

All warranty repairs must be performed by an SEA-authorized service center. The name and address of the location nearest you can be obtained by calling toll free:

1-800-SAMSUNG  
(1-800-726-7864)

## Terms

- Labor    ninety (90) days for carry-in models CXD1332/CXD1333/CXD1334/CXD1342 CXD1942/CXD1932/CXD1933/CXD1934/CXE1331/CXE1931  
              one (1) year for in-home models CXD2512/CXD2514
- Parts     one (1) year
- CRT      two (2) years

On carry-in models, transportation to and from the service center is the customers responsibility.

The customer's original dated sales receipt is the only acceptable proof of purchase. It must be presented to the authorized service center at the time the service is requested.

## Exclusions

This warranty does not cover damage due to accident, fire, flood and/or other acts of God, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage which occurs in shipping Exterior and interior finish, lamps, glass, and temperature probes, if supplied, are not covered under this warranty. Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty, which is valid only on products purchased and used in the United States and Puerto Rico.

Some states do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

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

For more information, contact:

Samsung Consumer Affairs  
Samsung Electronics America Inc.  
One Samsung Place  
Ledgewood, NJ 07852

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