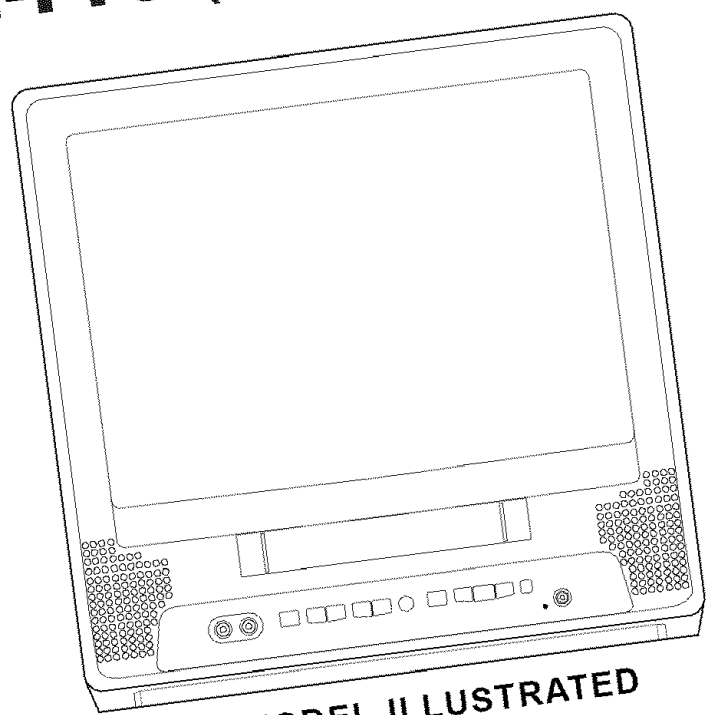


S  
L

SYLVAN

TV/VCR  
**2213W** (13 inch)

**2419** (19 inch)



**13" MODEL ILLUSTRATED**

Owner's Manual is made of recycled paper.

**INSTRUCCIONES EN ESPAÑOL INCLUIDAS.**

As an ENERGY STAR® Partner, our company has ensured that this product meets ENERGY STAR® guidelines for efficiency. ENERGY STAR® is a registered mark.

If you need additional assistance for set-up or operating after reading owner's manual, please call  
**TOLL FREE : 1-800-968-3429**

**Please read before using this equipment**



**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



**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 THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The caution marking is located on the rear of the cabinet.

## IMPORTANT SAFEGUARDS

**1. Read instructions-**All the safety and operating instructions should be read before the appliance is operated.

**2. Retain Instructions-**The safety and operating instructions should be retained for future reference.

**3. Heed Warnings-**All warnings on the appliance and in the operating instructions should be adhered to.

**4. Follow Instructions-**All operating and use instructions should be followed.

**5. Cleaning-**Unplug TV/VCR from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**EXCEPTION:** A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

**6. Attachments-**Do not use attachments not recommended by the TV/VCR manufacturer as they may cause hazards.

**7. Water and Moisture-**Do not use this TV/VCR near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

**8. Accessories-**Do not place this TV/VCR on an unstable cart, stand, tripod, bracket, or table. The TV/VCR may fall, causing serious injury to someone, 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. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING



S3126A

**AMEUBLES-** Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.

SYMBÔLE D'AVERTISSEMENT POUR  
LES COMMODITÉS  
APPAREIL ET MEUBLE À ROULETTES



S3126A

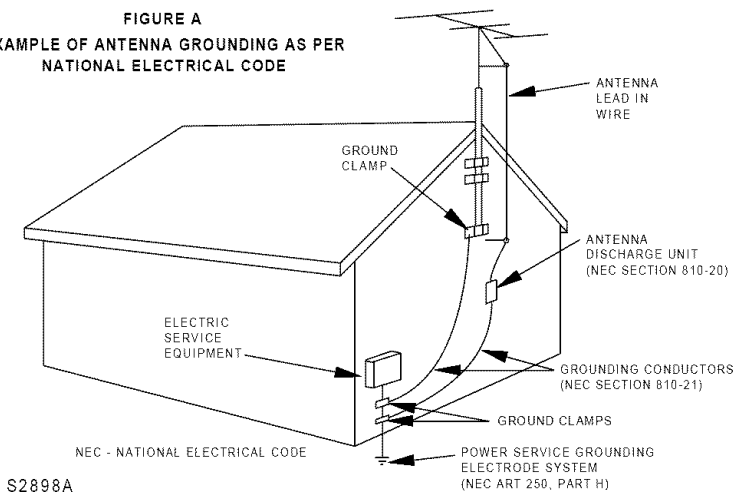
**9. Ventilation-**Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the TV/VCR and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the TV/VCR on a bed, sofa, rug, or other similar surface. This TV/VCR should never be placed near or over a radiator or heat register. This TV/VCR should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**10. Power Sources-**This TV/VCR should be operated 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. For TV/VCRs intended to operate from battery power, or other sources, refer to the operating instructions.

**11. Grounding or Polarization-**This TV/VCR is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**12. Power-Cord Protection-**Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**FIGURE A**  
**EXAMPLE OF ANTENNA GROUNDING AS PER**  
**NATIONAL ELECTRICAL CODE**



**13. Outdoor Antenna grounding**-If an outside antenna or cable system is connected to the TV/VCR, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, 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. (Fig. A)

**14. Lightning**-For added protection for this TV/VCR receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV/VCR due to lightning and power-line surges.

**15. Power Lines**-An outside antenna system should not be located 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, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**16. Overloading**-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

**17. Object and Liquid Entry**-Never push objects of any kind into this TV/VCR through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV/VCR.

**18. Servicing**-Do not attempt to service this TV/VCR yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**19. Damage Requiring Service**-Unplug this TV/VCR from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged or frayed.
- b. If liquid has been spilled, or objects have fallen into the TV/VCR.
- c. If the TV/VCR has been exposed to rain or water.
- d. If the TV/VCR does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV/VCR to its normal operation.
- e. If the TV/VCR has been dropped or damaged in any way.
- f. When the TV/VCR exhibits a distinct change in performance-this indicates a need for service.

**20. Replacement Parts**-When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.

**21. Safety Check**-Upon completion of any service or repairs to this TV/VCR, ask the service technician to perform routine safety checks to determine that the TV/VCR is in proper operating condition.

**22. Heat**-This TV/VCR product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.**

**ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.**

# PRECAUTIONS

## LOCATION

For safe operation and satisfactory performance of your TV/VCR, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the TV/VCR near strong magnetic fields.
- Avoid moving TV/VCR to locations where temperature differences are extreme.

## AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to an Authorized Service Center for servicing.
- Do not put your fingers or objects into the TV/VCR cassette holder.
- Do not place anything directly on top of the unit.

## WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. If a tape is played in a TV/VCR which has moisture, it may damage the tape and TV/VCR. Therefore if condensation occurs inside the unit, turn the POWER button on and allow at least 2 hours for the unit to dry out.

## IMPORTANT COPYRIGHT INFORMATION

Unauthorized recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We assume no responsibility for the unauthorized duplication, use, or other acts which infringe upon the rights of copyright owners.

**FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and receiver.
- 3) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

The serial number of this product may be found on the back of the unit. No other TV/VCR has the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer name	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

# TABLE OF CONTENTS

■ <b>IMPORTANT SAFEGUARDS</b> .....	2	■ <b>PLAYBACK</b> .....	17
■ <b>PRECAUTIONS</b> .....	4	NORMAL PLAYBACK .....	18
■ <b>FEATURES</b> .....	6	AUTO REPEAT PLAYBACK .....	18
■ <b>SUPPLIED ACCESSORIES</b> .....	6	SEARCH .....	18
■ <b>OPERATING CONTROLS AND FUNCTIONS</b>	7	SLOW MOTION .....	19
■ <b>PREPARATION FOR USE</b> .....	9	RENTAL PLAYBACK .....	19
ANTENNA/CABLE CONNECTIONS .....	9	VERTICAL HOLD CONTROL .....	20
FRONT A/V INPUT .....	10	STILL PICTURE .....	20
INSTALLING THE BATTERIES .....	10	TRACKING ADJUSTMENT .....	20
■ <b>SET UP FOR USE</b> .....	10	■ <b>RECORDING</b> .....	20
SELECTING THE LANGUAGE .....	10	NORMAL RECORDING .....	20
CLOCK SET UP (AUTO / MANUAL) .....	10	OTR (One Touch Recording) .....	21
DAYLIGHT-SAVING TIME .....	12	TIMER RECORDING .....	21
CHANNEL SET UP .....	13	TIMER PROGRAM EXTENSION .....	22
DELETING (OR ADDING) CHANNEL .....	13	HINTS FOR AUTOMATIC TIMER RECORDING .....	23
■ <b>TV OPERATION</b> .....	14	AUTO RETURN .....	23
WATCHING A TV PROGRAM .....	14	WAKE UP TIMER .....	23
GAME MODE .....	14	SLEEP TIMER .....	24
DEGAUSSING .....	14	■ <b>COPYING A VIDEO TAPE</b> .....	24
PICTURE CONTROL .....	14	■ <b>ON SCREEN DISPLAY</b> .....	25
CLOSED CAPTION SYSTEM .....	15	■ <b>SPECIAL FEATURES</b> .....	25
V-CHIP SET UP .....	15	REAL TIME TAPE COUNTER .....	25
FM MODE (13 inch model only) .....	17	AUTO REWIND-EJECT .....	25
		■ <b>MAINTENANCE</b> .....	25
		■ <b>TROUBLESHOOTING GUIDE</b> .....	26
		■ <b>SPECIFICATIONS</b> .....	27
		■ <b>CABLE CHANNEL DESIGNATIONS</b> .....	27
		■ <b>WARRANTY</b> .....	<i>Back Cover</i>

## INDICE

<b>CONTROLES DE OPERACIÓN Y SUS FUNCIONES</b> .....	28	<b>SELECCION DE IDIOMA</b> .....	30
<b>CONEXIONES DE ANTENA/CABLE</b> .....	30	<b>AJUSTE DE CANAL</b> .....	31
<b>MODO DE ENTRADA EXTERNA</b> .....	30	<b>AJUSTE DEL RELOJ</b> .....	31

### A NOTE ABOUT RECYCLING

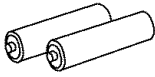
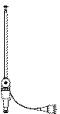
This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

# FEATURES

- **Rotary 4-head Record/Playback System**—Four heads ensure excellent picture quality and special effects playback.
- **Index Search**—Fast-forwards to start of next recording.
- **Slow Motion**—View recorded program at slower than normal speed.
- **Infrared remote control**
- **Trilingual on screen menu display selectable in English, Spanish, or French**
- **Real time counter**—This shows the elapsed recording or playback time in hours, minutes, and seconds. The “-” indication will appear when the tape is rewound further than the tape counter position “0:00:00”.
- **181 channel capability PLL frequency synthesizer tuner with direct station call**—(A converter may be necessary to view scrambled cable channels.)
- **Auto Clock Setting**—Allows you to set the clock from a PBS broadcast station.
- **Closed caption system**—You may view specially labeled (cc) TV programs, movies, news, prerecorded tapes, etc. with either a dialogue caption or text display added to the program.
- **Game mode**—Automatically selects front A/V input mode and allows the TV/VCR display to be suitable for use with TV games.
- **Auto power on and off system**—Automatically turns on the TV/VCR when you insert the cassette, turns off after auto-rewind, and ejects when the beginning of the tape is reached.
- **Auto rewind when the end of a tape is reached**—This function doesn't occur when using timer recording.
- **2 Step picture search operation**—You can view a video program at a high speed or super high speed in either a forward or reverse direction in LP and SLP mode. For SP mode only high speed.
- **Three different playback tape speeds : SP/LP/SLP**
- **Two different recording tape speeds : SP/SLP**
- **Auto Head Cleaner**—Automatically cleans video heads as you insert or remove a cassette.
- **Zero Return**—The tape returns to counter of 0:00:00 by rewinding or fast forwarding.
- **Still**—“Freeze” the picture at any time, for close viewing of a particular scene. Only tapes recorded in SLP mode will show a fairly clear picture.
- **Digital Auto Tracking (DTR)**—Automatically adjusts the tracking for each tape you play.
- **Rental play mode**—Improves playback picture quality from worn tapes, such as rental tapes.
- **Auto repeat**—Allows you to repeat the playing of a tape indefinitely without pressing the PLAY button.
- **Time search**—Lets you set the TV/VCR to advance the tape by entering the desired playback time you want to skip.
- **OTR (One Touch Recording)**—Instant recording in 30 to 480 minutes increments is possible at the push of the REC/OTR button.
- **1 Year, 8 events (including Daily and Weekly Timer Recording)**—The built-in timer allows you to record up to 8 programs at different times on different channels up to 1 year in advance. The Daily timer allows recordings to be made of daily broadcasts, and the Weekly timer allows recording to be made once a week up to the end of the tape.
- **Auto return**—After timer recording is finished, the TV/VCR can return to the beginning of the recording.
- **Wake-up/Sleep timer**—Allows you to have the TV/VCR automatically turn on or off at a desired time.
- **Timer Program Extension**—Allow you to shift the time schedule for automatic timer recording.
- **V-CHIP**—Enables parents to prevent their children from watching inappropriate material on TV.
- **FM mode**—Allows you to listen to the FM radio. (13 inch model /SRC2213W only)

## SUPPLIED ACCESSORIES

<p>Remote Control Unit</p>  <p>PART NO. (NE109UD for SRC2213W) (NE138UD for SRC2419)</p>	<p>2 AA Batteries</p>  	<p>Rod Antenna (13" model only supplied)</p>  <p>PART NO. (0EMN00673 or 0EMN01599 or 0EMN01755)</p> 
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- If you need to replace these accessories, please refer to the PART NO. under the illustrations and call 1-800-968-3429.
- Depending on your antenna system, you may need different types of Combiners (Mixer) or Separators (Splitter). Contact your local electronics store for these items.
- We do not recommend the use of universal remote controls. Not all of the functions may be controlled with a universal remote control. If you decide to use a universal remote control with this unit, please be aware that the code number given may not operate this unit. In this case, please call the manufacturer of the universal remote control.

# OPERATING CONTROLS AND FUNCTIONS

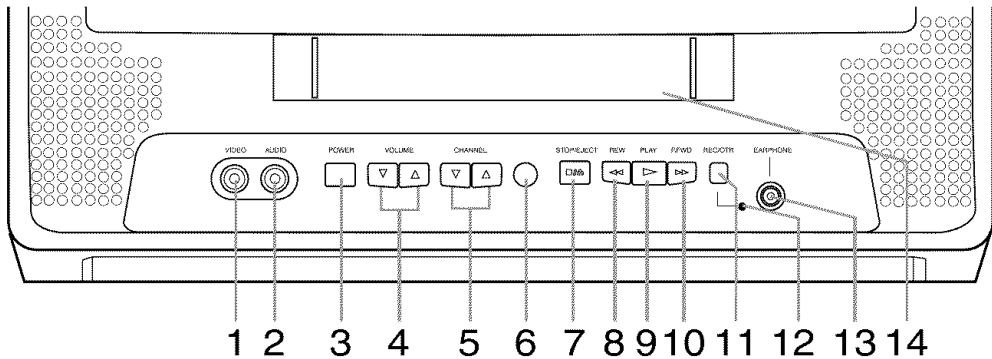
This manual covers 13" and 19". The operation of the two models are exactly the same except the appearance. 13" model is illustrated in this manual.

## NOTE:

- We do not recommend the use of universal remote controls. Not all of the functions may be controlled with a universal remote control.

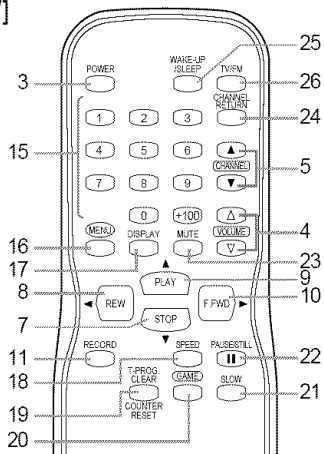
If you decide to use a universal remote control with this unit, please be aware that the code number given may not operate this unit. In this case, please call the manufacturer of the universal remote control.

## - TV/VCR FRONT PANEL -



## - REMOTE CONTROL -

[SRC2213W]



**1 VIDEO input jack**– Connect to the video output jack of your video camera, video game or another VCR.

**2 AUDIO input jack**– Connect to the audio output jack of your video camera, video game or another VCR.

**3 POWER button**– Press to turn TV/VCR on and off. Press to activate timer recording.

**4 VOLUME  $\Delta$  /  $\nabla$  buttons**– Adjust the volume level.

**5 CHANNEL  $\Delta$  /  $\nabla$  buttons**– Press to select the desired channels for viewing or recording, listening of FM radio. (13 inch model only)

You may display the main menu on the TV screen by pressing repeatedly this button on the TV/VCR until you go below the lowest memorized channel.

**TRACKING function**– Press to minimize video 'noise' (lines or dots on screen) during playback or Slow mode. (See page 20.)

**6 Remote Sensor Window**– Receives the infrared signals from the remote control.

**7 STOP / EJECT button (TV/VCR)**– Press to stop the tape motion. Press in the Stop mode to remove tape from TV/VCR.

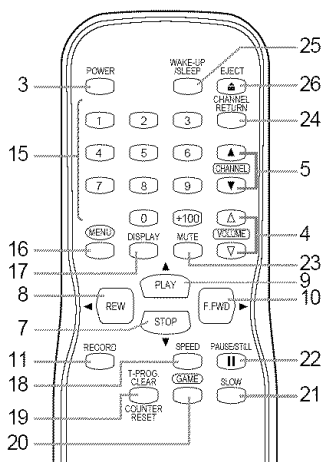
**STOP button (remote control)**– Press to stop the tape motion.

**$\nabla$  button**–

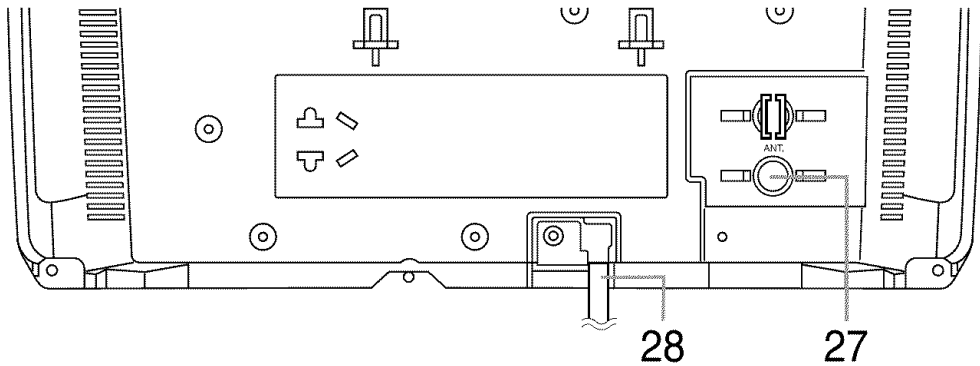
- Press to select setting modes from the on screen menu.

- Press to enter digits when setting program. (for example: setting clock or timer program)

[SRC2419]



- REAR VIEW -



**8 REW button**– Press to rewind the tape, or to view the picture rapidly in reverse during playback mode. (Rewind Search)

◀ **button**–

- Press to select a mode from a particular menu. (for example: LANGUAGE or USER’S SET UP)

**9 PLAY button**– Press to begin playback.

▲ **button**–

- Press to select setting modes from the on screen menu.
- Press to enter digits when setting program. (for example: setting clock or timer program)

**10 F.FWD button**– Press to rapidly advance the tape, or to view the picture rapidly in forward during playback mode. (Forward Search)

▶ **button**–

- When setting program (for example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input.
- Press to determine setting modes from on screen menu.
- Press to select a mode from a particular menu. (for example: LANGUAGE or USER’S SET UP)

**11 REC button**– Press for manual recording.

**OTR button**– Activates One Touch Recording. (only on the TV/VCR)

**12 RECORD indicator**– Flashes during recording. Lights up in the Stand-by mode for Timer Recording.

**13 EARPHONE jack**– Connects to earphones (not supplied) for personal listening. The size of jack is 1/8” monaural (3.5mm).

**14 Cassette compartment**

**15 Number buttons**– Press to select desired channels for viewing or recording. To select channels from 1 to 9, first press the 0 button and then 1 to 9.

**+100 button**– When selecting cable channels which are higher than 99, press this button first, then press the last two digits. (To select channel 125, first press the “+100” button then press “2” and “5”).

**16 MENU button**– Press to display the main menu on the TV screen.

**17 DISPLAY button**– Display the counter or the current channel number and current time on the TV screen. (See page 25.)

**18 SPEED button**– Press to choose the desired recording speed:SP/SLP.

**19 T-PROG. CLEAR button**– Press to cancel a setting of timer program. (See page 23.)

**COUNTER RESET button**– Press to reset counter to 0:00:00.

**20 GAME button**– Sets the game mode and selects front A/V input mode at the same time. (See page 14.)

**21 SLOW button**– Press to start slow motion playback.

**22 PAUSE/STILL button**– Press to temporarily stop the tape during the recording or to view a still picture during playback.

**Frame Advance function**– Press to advance the picture one frame at a time during Still mode.

**23 MUTE button**– Mutes the sound. Press it again to resume sound.

**24 CHANNEL RETURN button**– Press to go back to the previously viewed channel. For example, pressing this button once will change channel display from 3 (present channel) to 10 (previously viewed channel), and pressing it a second time will return from 10 to 3.

**25 WAKE-UP/SLEEP button**– Sets the Wake up or Sleep Timer. (See pages 23 and 24.)

**26 (13” model) TV/FM button**– Sets the FM mode.

**(19” model) EJECT button**– Press to remove tape from TV/VCR.

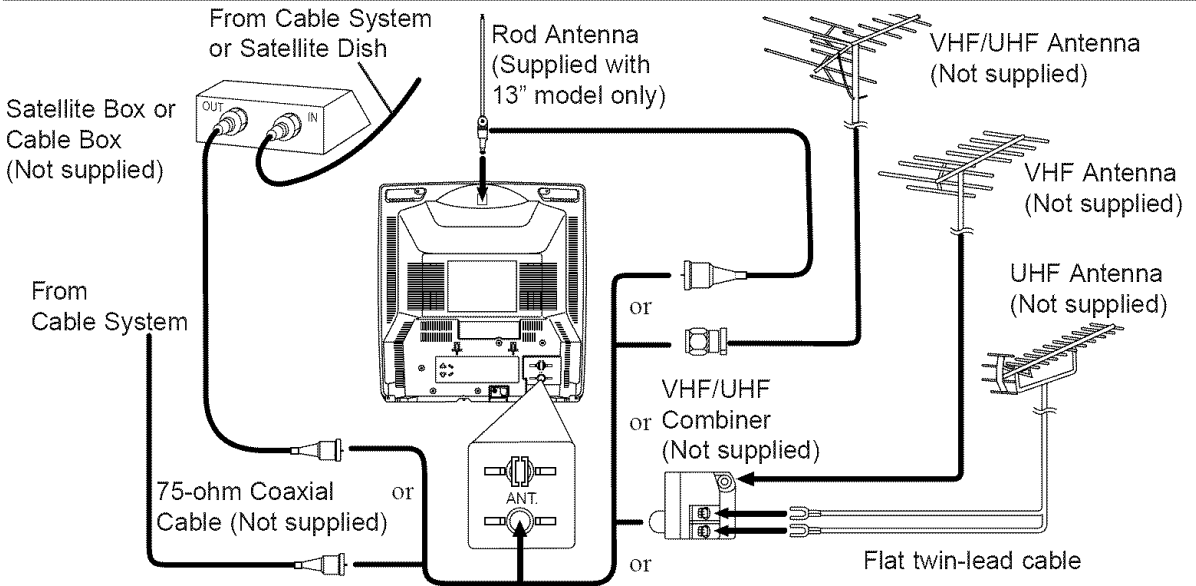
**27 ANT. terminal**– Connect to an antenna or cable system.

**28 Power cord**– Connect to a standard AC outlet. (120V/60Hz)



# PREPARATION FOR USE

## ANTENNA/CABLE CONNECTIONS

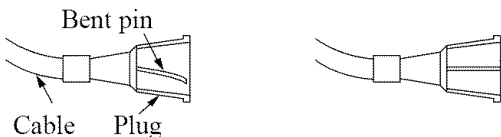


### VHF/UHF COMBINED ANTENNA

The VHF/UHF Rod Antenna (supplied with 13" model only) is detachable. Insert the stem of the antenna into the hole on the upper-back portion of the TV/VCR. Connect the VHF/UHF Rod Antenna or VHF/UHF Combination Antenna to the ANT. terminal of the TV/VCR as shown in the diagram. For the best reception, fully extend the VHF/UHF Rod Antenna and make the necessary adjustments. (Avoid touching the top section when adjusting.)

#### NOTE:

Before connecting the Rod antenna into antenna terminal, check that the pin is not bent. If it is bent, straighten the pin as illustrated, then plug the pin into antenna terminal.



(Needs to be straightened)

(Straight pin)

#### NOTE:

The connection of an Rod antenna may not always give acceptable TV reception.

### VHF/UHF SEPARATE ANTENNAS

In some areas it will be necessary to use an outdoor antenna.

### CABLE WITHOUT CONVERTER/DESCRAMBLER BOX

Use this connection if your cable system connects directly to your TV/VCR without a converter box.

By using this connection you can:

- 1) Use the TV/VCR Remote Control to select channels.
- 2) Program one or more unscrambled channels for Timer Recording.

**NOTE:** This unit will ONLY record and view the same channel.

### CABLE WITH CONVERTER/DESCRAMBLER BOX OR SATELLITE BOX

If your cable service supplies you with a converter box or if you use a satellite system, you can use the basic connection shown in the diagram.

By using this connection you can also record scrambled channels. However, channel selection must be made with the converter box or satellite box. This means that channels cannot be changed using the TV/VCR Remote Control. Unattended timer recording is limited to one channel at a time.

#### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC 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.

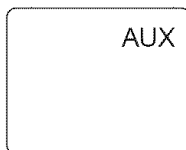
## TO RECORD A SCRAMBLED/UNSCRAMBLED CHANNEL

- 1) Set the TV/VCR channel selector to the output channel of the Cable Converter Box or Satellite Box. (Example: CH3)
- 2) Select the channel to record from your Cable Converter Box or Satellite Box.

## FRONT AV INPUT

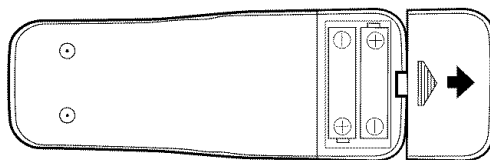
When using an external input signal (another VCR, video game or video camera), connect the player's audio/video output cables to the AUDIO IN/ VIDEO IN jacks of your TV/VCR. Then press the CHANNEL ▲ or ▼ button until "AUX" appears on the screen.

**NOTE:** "AUX" is found below the lowest memorized channel.  
(Example: CH2)



## INSTALLING THE BATTERIES

- 1) Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
- 2) Insert 2 "AA" penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
- 3) Replace the cover.



## SET UP FOR USE

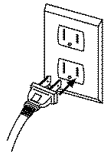
### SELECTING THE LANGUAGE

#### 1 Plug in the TV/VCR power cord

Plug the TV/VCR power cord into a standard AC outlet.

#### **NOTE:**

- If some digits appear in the corner of the screen, press the POWER button without unplugging the power cord.



#### *Make sure ...*

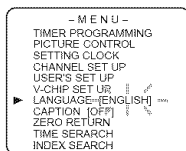
- Press the POWER button to turn on the TV/VCR.

**NOTE:** This function effects only the language on the screen menu and not the audio source.

#### 2 Select "LANGUAGE"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "LANGUAGE".



#### 3 Select "ENGLISH", "ESPAÑOL" or "FRANÇAIS"

Select "ENGLISH", "ESPAÑOL"= Spanish or "FRANÇAIS"= French using the F.FWD/▶ or REW/◀ button.

#### 4 Exit the Language mode

Press the MENU button on the remote control to return to TV mode.

**NOTE:** If for some reason the menu is in Spanish or French, press the MENU button on the remote control, press the PLAY/▲ button to point to "IDIOMA [ESPAÑOL]" or "LANGAGE [FRANÇAIS]", then press the F.FWD/▶ button, then press the MENU button on the remote control.

## CLOCK SET UP (AUTO / MANUAL)

The TV/VCR clock must be set correctly before timer recording is possible. It is suggested that the clock be set manually when first setting up the TV/VCR. Then, set to [ON] the auto clock setting which will periodically correct the setting if necessary.

**NOTE:** If you cannot receive a station with time signals, auto clock setting cannot be performed. Use manual setting only.

### MANUAL CLOCK SETTING

#### *Make sure ...*

- The TV/VCR is turned on.

In the example below, the clock is to be set to:

DATE May 6th, 2004

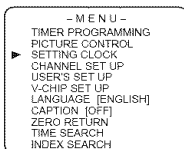
SETTING TIME 5:40PM

### 1 Select "SETTING CLOCK"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "SETTING CLOCK".

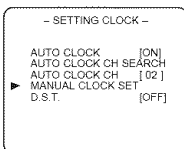
Then, press the F.FWD/▶ button.



### 2 Select "MANUAL CLOCK SET"

Press the PLAY/▲ or STOP/▼ button to point to "MANUAL CLOCK SET".

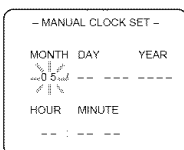
Then, press the F.FWD/▶ button.



### 3 Select the month

Press the PLAY/▲ or STOP/▼ button until your desired month appears. (Example: May → 05)

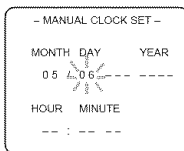
Then, press the F.FWD/▶ button.



### 4 Select the day

Press the PLAY/▲ or STOP/▼ button until your desired day appears. (Example: 6th → 06)

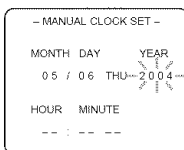
Then, press the F.FWD/▶ button.



### 5 Select the year

Press the PLAY/▲ or STOP/▼ button until your desired year appears. (Example: 2004)

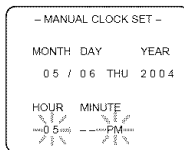
Then, press the F.FWD/▶ button.



### 6 Select the hour

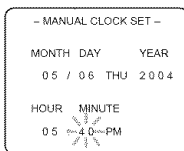
Press the PLAY/▲ or STOP/▼ button until your desired hour appears. (Example: 5, PM)

Then, press the F.FWD/▶ button.



### 7 Select the minute

Press the PLAY/▲ or STOP/▼ button until the desired minute appears. (Example: 40)



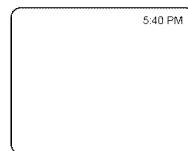
### 8 Start the clock

Press the MENU button on the remote control.

Although seconds are not displayed, they begin counting from 00 when you press the MENU button on the remote control. Use this feature to synchronize the clock with the correct time.

#### NOTE:

When unplugging the AC cord or if there is a power failure for more than 3 seconds, you may have to reset the clock.



### TO CHANGE CLOCK SETTING

If you want to change the clock,

- 1) Follow steps [1] and [2].
- 2) Select where you want to change using the F.FWD/▶ or REW/◀ button.
- 3) Enter correct numbers using the PLAY/▲ or STOP/▼ button.
- 4) Press the MENU button on the remote control to start the clock.

#### PLEASE NOTE:

If there is no local PBS station in your area or on your cable system, select "AUTO CLOCK" and press the F.FWD/▶ or REW/◀ button to turn [OFF] this function. Then you can manually adjust the clock.

### AUTOMATIC CLOCK SETTING

#### Make sure ...

- The TV/VCR is turned on.
- Confirm the TV/VCR is receiving a RF (Radio Frequency) signal from either an antenna or cable system connection using the ANT. terminal on the rear of the TV/VCR.

#### NOTE:

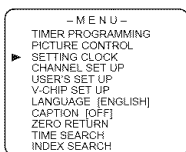
- If a cable converter box is being used, make sure it is powered on.
- You must use the TV/VCR remote control to perform the clock setting procedure.
- If the TV/VCR is connected directly to a cable converter box or satellite box, the local PBS station must be selected on the cable box itself, and the TV/VCR must be set to the output channel of the cable converter box or satellite box (usually channel 3 or 4), to be able to set up or correct the clock automatically.

### 1 Select "SETTING CLOCK"

Press the MENU button on the remote control.

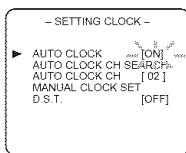
Press the PLAY/▲ or STOP/▼ button to select "SETTING CLOCK".

Press the F.FWD/▶ button to enter "SETTING CLOCK" menu.



### 2 Set "AUTO CLOCK" to [ON]

Press the F.FWD/▶ button until "AUTO CLOCK [ON]" appears.

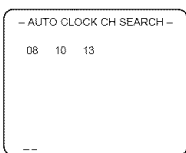
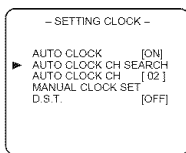


### 3 Begin "AUTO CLOCK CH SEARCH"

Press the STOP/▼ button to select "AUTO CLOCK CH SEARCH".

Press the F.FWD/▶ button.

- The TV/VCR is now searching for the station which contain the auto clock set signal. The search for a signal may take up to 20 seconds per channel.
- " \_ " appears at the lower left of the screen when the search has ended.
- Auto Clock station- write down the number(s) that appear on the screen. These are the auto clock station(s) in your area. See item 4 below.
- If no number(s) appear on the TV screen, there are no stations in your area which contain the Auto Clock signal. Auto Clock Setting is not possible. Please use Manual Clock Setting on pages 10-11.



Press the MENU button to exit the screen.

**NOTE:** During Auto Clock CH Search, the picture may be distorted. This is normal.

### 4 Enter the channel number that contains the Automatic Clock Setting Signal

Press the MENU button on the remote control.

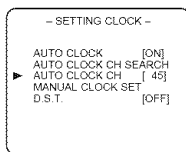
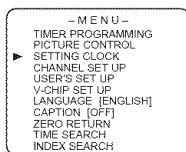
Press the PLAY/▲ or STOP/▼ button to select "SETTING CLOCK".

Press the F.FWD/▶ button to enter "SETTING CLOCK" menu.

Press the STOP/▼ button to select "AUTO CLOCK CH".

Press the F.FWD/▶ or REW/◀ buttons until you locate Auto Clock Set station number. See item 3 above.

Press the MENU button to exit the screen.



### 5 Turn off the TV/VCR

Once the TV/VCR is turned off, it will periodically check and set the correct date and time.

## DAYLIGHT-SAVING TIME

Select this feature and the TV/VCR's clock automatically will advance one hour in April, then reverse one hour in October.

When Daylight-Saving Time is ON, the clock will change automatically as follows:

- **First Sunday of April** : At 2 AM the clock immediately changes to 3 AM. Any timer programming you have set to occur between 2 AM and 3 AM will not record.
- **Last Sunday of October** : At 2 AM the clock immediately changes to 1 AM.

**Make sure ...**

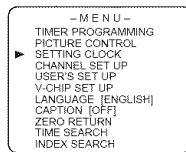
- Press the POWER button to turn on the TV/VCR.

### 1 Select "SETTING CLOCK"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "SETTING CLOCK".

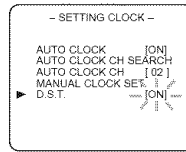
Then, press the F.FWD/▶ button.



### 2 Set "D.S.T." (Daylight-Saving Time) to [ON]

Press the PLAY/▲ or STOP/▼ button to point to "D.S.T.".

Then, press the F.FWD/▶ or REW/◀ button until [ON] appears.



### 3 Exit the Daylight-Saving Time mode

Press the MENU button on the remote control to return to TV mode.

## TO CANCEL THE DAYLIGHT-SAVING TIME

Repeat steps [1] to [2], select [OFF] using the F.FWD/▶ or REW/◀ button.

## CHANNEL SET UP

You can program the tuner to scan all the channels you receive in your area.

**NOTE:** Channel memory programming is NOT needed when connected to a cable box or satellite box. Just select the TV/VCR channel selector to the output channel of the cable box or satellite box (Ex CH3). Then select the channel to be viewed on the Cable Box or Satellite Box.

*Make sure ...*

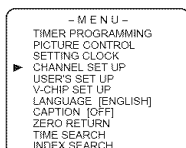
- Press the POWER button to turn on the TV/VCR.

### 1 Select "CHANNEL SET UP"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "CHANNEL SET UP".

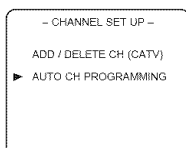
Then, press the F.FWD/▶ button.



### 2 Begin auto preset

Press the PLAY/▲ or STOP/▼ button to point to "AUTO CH PROGRAMMING".

Then, press the F.FWD/▶ button. The tuner scans and memorizes all the active channels in your area.



### 3 After scanning

The tuner stops on the lowest memorized channel.

- When AUTO CH PROGRAMMING is activated where there is no TV signal input, "NO TV SIGNALS" will appear on the display after the completion of the channel scanning.
- The TV/VCR may display TV channels to be CATV channels caused by poor antenna reception. In this case, try auto preset again.

## DELETING (OR ADDING) CHANNEL

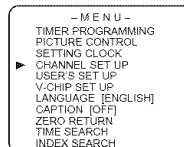
The channels you no longer receive or seldom watch can be deleted from the memory. (Of course, you can add the deleted channel into the memory again.)

### 1 Select "CHANNEL SET UP"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "CHANNEL SET UP".

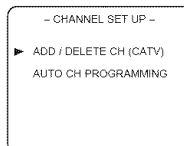
Then, press the F.FWD/▶ button.



### 2 Select "ADD/DELETE CH"

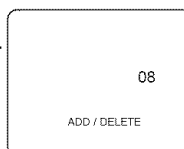
Press the PLAY/▲ or STOP/▼ button to point to "ADD/DELETE CH".

Press the F.FWD/▶ button.



### 3 Enter the desired channel number

Press the PLAY/▲ or STOP/▼ button until your desired channel number appears. (You can also use the number buttons or the CHANNEL ▲/▼ button to enter it) (Example: CH8)



- When selecting cable channels which are higher than 99, press the +100 button first, then, press the last two digits. (Example: to select channel 125, first press the +100 button then press "2" and "5").
- You must proceed single-digit channel numbers with a zero (Example: 02 ... 09).

### 4 Delete (or add) it from (into) memory

Press the F.FWD/▶ or REW/◀ button. The channel number changes to light red. The channel is deleted from memory.

- To delete another channel, repeat steps [3] and [4].
- If you press the F.FWD/▶ or REW/◀ button again, the channel is memorized again.

**Added channel: Light blue.**  
**Deleted channel: Light red.**

### 5 Exit the channel setup mode

Press the MENU button on the remote control to return to TV mode.

**NOTE:** To confirm that channel(s) has been deleted or added, press the CHANNEL ▲ or ▼ button.

# TV OPERATION

## WATCHING A TV PROGRAM

### 1 Turn on the TV/VCR

Press the POWER button to turn on the TV/VCR.

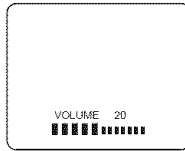
### 2 Select the channel number

Press the CHANNEL ▲ or ▼ button to select your desired channel number or press the number buttons on the remote control.

**Remember:** If the TV/VCR is connected to a cable box or satellite box, the TV/VCR must be on CH3 or CH4, then the channel to be viewed must be selected on the cable box or satellite box.

### 3 Adjust sound

Press the VOLUME ▲ or ▼ button to adjust the volume.



## GAME MODE

This function enables you to decrease the TV screen contrast and making it suitable for use with a Video game system.

**NOTE:** This function **CANNOT** be set during recording.

Press the GAME button on the remote control. "GAME" appears on the screen.



When you press the GAME button;

- The TV/VCR turns on automatically.
- The TV/VCR will select front A/V input mode automatically.

### TO CANCEL THE GAME MODE

Press the GAME button or CHANNEL ▲ or ▼ button on the remote control.

## DEGAUSSING

This television has a degaussing circuit that will clear up color errors on the TV screen that are caused by any excess magnetism which happens to get too close to the TV. This circuit is designed to operate once when the set is first plugged in. If minor color errors are seen in some locations on the screen, please unplug the TV for approximately 15 minutes. When the TV is plugged back in, the degaussing circuit will operate once to clear them up. Repeat this procedure any time the TV screen is accidentally magnetized, or when the TV is moved or relocated.

## PICTURE CONTROL

The TV/VCR's picture controls – **BRIGHT, CONTRAST, COLOR, TINT** and **SHARPNESS** – are preset to factory specifications. Although they are usually the best, you may need to make some further adjustments for a natural looking image.

### NOTES:

- Procedures must be followed within 5 seconds or the Picture Control mode will be cancelled.
- When setting the Picture Control, the Game mode will be cancelled.

### Make sure ...

- TV/VCR power must be turned on.

### 1 Select "PICTURE CONTROL"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "PICTURE CONTROL".

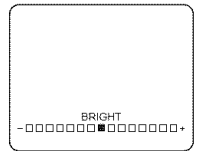
Then, press the F.FWD/▶ button.



### 2 Select item you want to adjust

Press the PLAY/▲ or STOP/▼ button until desired control is displayed.

BRIGHT  
CONTRAST  
COLOR  
TINT  
SHARPNESS



### 3 Adjust the picture control

Press the F.FWD/▶ or REW/◀ button to adjust to your desired level.

	REW/◀	F.FWD/▶
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to pale	to brilliant
TINT	to purple	to green
SHARPNESS	to soft	to clear

- If there is a power failure of any kind, the unit will retain its setting.

## CLOSED CAPTION SYSTEM

You can view specially labeled (cc) TV programs, movies, news, pre-recorded tapes with either a dialogue caption or text display.

**CAPTION mode:** By choosing the caption mode, you can watch dramas, movies and news while captioning the dialogues and the contents of news.

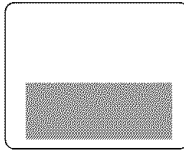
**TEXT mode:** By choosing the text mode, you can watch half screen text information if you want.

**1-2:** You may get these captions or text information by selecting either "1" or "2". Caption "2" is usually used for a second language if available.

### NOTE:

Not all programs are broadcast with closed captions. Your TVCR is designed to provide error free closed captions from high quality antenna, cable and VCR signals. Conversely, poor quality signals are likely to result in caption errors or no captions at all. Common signal conditions which may cause captions errors are listed below:

- Automobile ignition noise
- Electric motor noise
- Weak snowy reception on TV screen
- Multiplex signal reception displaying picture ghosts or airplane flutter.
- Playback of poorly recorded or worn VCR tapes.
- If the TV/VCR displays a black box on the TV screen, this means that the TV/VCR is set to the TEXT mode. To clear screen, select [CAPTION1], [CAPTION2] or [OFF].



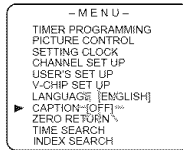
### Make sure ...

- TV/VCR power must be turned on.

### 1 Select "CAPTION"

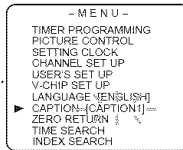
Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "CAPTION".



### 2 Select your desired caption menu

Press the F.FWD/▶ or REW/◀ button until your desired caption menu appears. ([CAPTION1], [CAPTION2], [TEXT1] or [TEXT2])



### 3 Exit the caption setting mode

Press the MENU button on the remote control to return to TV mode.

## TO CANCEL THE CLOSED CAPTION SYSTEM

Repeat steps [1] and [2], select [OFF] using the F.FWD/▶ or REW/◀ button. Press the MENU button on the remote control to return to TV mode.

## WHEN THE CLOSED CAPTION MODE IS ON

The On-Screen Display will disappear after 5 seconds.

- This is also true when the MUTE button is pressed, and when the PAUSE/STILL button is pressed while recording.
- If there is a power failure of any kind, the unit will retain its memory for this feature.

## V-CHIP SET UP

### V-CHIP SET UP

#### Make sure ...

- TV/VCR is turned on.
- You have the TV/VCR remote control.

### 1 Select "V-CHIP SET UP"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to select "V-CHIP SET UP".

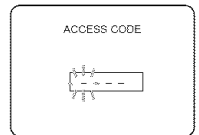
Then, press the F.FWD/▶ button.



### 2 Enter Access code

Use the numbers on the remote control to enter the access code.

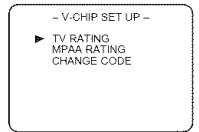
- For the first time set-up or in the event the TV/VCR has lost power, enter the default code of the numbers: 0000.



### 3 Select "TV RATING"

Press the PLAY/▲ or STOP/▼ button to select "TV RATING".

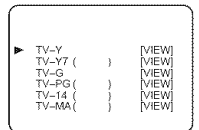
Then, press the F.FWD/▶ button.



### 4 Blocking TV programs

Press the PLAY/▲ or STOP/▼ button to select "TV rating" that you wish to block.

- When you select the rating category and turn it [BLOCK], the higher rating will turn [BLOCK] automatically. Also, the lower rating will turn [VIEW] automatically.
- When you turn "TV-Y" to [VIEW], then all ratings will turn to [VIEW] automatically.



Selection	Rating Category Explanations
TV-Y	Appropriate for all children
TV-Y7	Appropriate for children seven and older
TV-G	General Audience
TV-PG	Parental Guidance suggested.
TV-14	Unsuitable for children under 14
TV-MA	Mature audience only

## 5 Exit the V-Chip setting mode

Press the MENU button on the remote control to enter the setting and exit the screen.

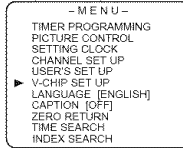
## V-CHIP SET UP SUB RATINGS

When you select the ratings of TV-Y7,TV-PG,TV-14 or TV-MA you will have the option of selecting sub rating categories.

### 1 Select "V-CHIP SET UP"

Press the MENU button on the remote control.

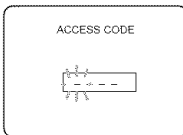
Press the PLAY/▲ or STOP/▼ button to select "V-CHIP SET UP". Then, press the F.FWD/▶ button.



### 2 Enter Access code

Use the number buttons on the remote control to enter the access code.

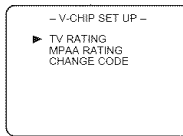
**Note:** Default code is 0000.



### 3 Select "TV RATING"

Press the PLAY/▲ or STOP/▼ button to select "TV RATING".

Then, press the F.FWD/▶ button.



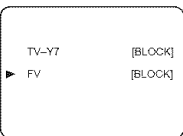
### 4 Selecting Sub-Ratings"

Press the STOP/▼ button to select the sub-rating you wish to block. Then, press the F.FWD/▶ button.

#### • When you select [TV-Y7]:

Press the STOP/▼ or PLAY/▲ button to select "FV" (Fantasy Violence).

Then, press the F.FWD/▶ button to select [BLOCK] or [VIEW].

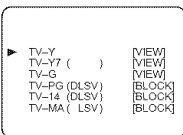
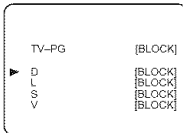


#### • When you select [TV-PG], [TV-14] or [TV-MA]:

Press the STOP/▼ or PLAY/▲ button to select "D"(Suggestive Dialog), "L"(Coarse Language), "S"(Sexual Situation), or "V"(Violence). Then, press the F.FWD/▶ button to select [BLOCK] or [VIEW].

**Note:** When you select [TV-MA], "D" does not appear on the TV screen.

• The sub-ratings which set to [BLOCK] appears next to the rating category in the TV rating menu.



## 5 Exit the V-Chip setting mode

Press the MENU button on the remote control to enter the setting and exit the screen.

## CHANGING V-CHIP BLOCKED PROGRAMMING

**Note:** To change the rating, the TV/VCR must be turned to a station that is not protected. If the (PROTECTED) appears on the screen, please change the channel to a station that is not protected.

1) Follow steps [1] and [2].

2) Press the F.FWD/▶ button to select "TV RATING". Select a TV rating to be unblocked by pressing the PLAY/▲ or STOP/▼ button.

Then press the F.FWD/▶ button to unblock the rating.

3) Press the MENU button on the remote control to exit the screen.

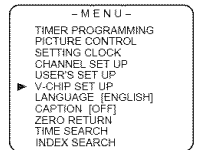
## MPAA RATING SET UP

### 1 Select "V-CHIP SET UP"

Press the MENU button on the remote control.

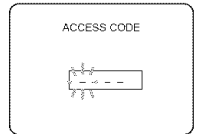
Press the PLAY/▲ or STOP/▼ button to select "V-CHIP SET UP".

Then, press the F.FWD/▶ button.



### 2 Enter Access code

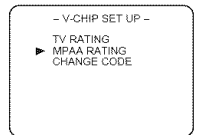
Use the numbers on the remote control to enter the access code.



### 3 Select "MPAA RATING"

Press the PLAY/▲ or STOP/▼ button to point to "MPAA RATING".

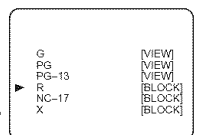
Then, press the F.FWD/▶ button.



### 4 Select your desired item

Press the PLAY/▲ or STOP/▼ button to point to your desired item.

Then, press the F.FWD/▶ button to select [BLOCK] or [VIEW].



Selection	Rating Category Explanations
G	General Audience
PG	Parental Guidance suggested.
PG-13	Unsuitable for children under 13
R	Restricted; under 17 requires accompanying parent or adult guardian
NC-17	No one under 17 admitted
X	Mature audience only

• When you select the rating category and turn it [BLOCK], the higher rating will turn [BLOCK] automatically. Also, the lower rating will turn [VIEW] automatically.

• When you turn "G" to [VIEW], then all ratings will turn to [VIEW] automatically.



### 5 Exit the V-Chip setting mode

Press the MENU button on the remote control to enter the setting and exit the screen.

## CHANGE ACCESS CODE

To change access code, follow the steps.

### 1 Select "V-CHIP SET UP"

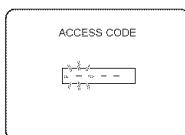
Press the MENU button on the remote control. Press the PLAY/▲ or STOP/▼ button to select "V-CHIP SET UP".

Then, press the F.FWD/▶ button.

### 2 Enter Access code

Use the number on the remote control to enter the access code.

**Note:** The default code is 0000.



### 3 Select "CHANGE CODE"

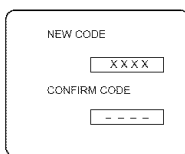
Press the PLAY/▲ or STOP/▼ button to select "CHANGE CODE". Then, press the F.FWD/▶ button.



### 4 Enter New code

Use the number buttons to enter your desired access code in the NEW CODE space. Then enter the same code in the CONFIRM CODE space. V-CHIP SET UP screen appear on the screen.

- If you enter wrong code, repeat step 4, making sure you enter the same new code exactly in the confirm code space.



### 5 Exit the V-Chip setting mode

Press the MENU button on the remote control to exit the screen.

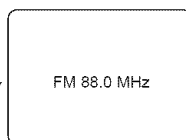
**Note:** If you unplug the power cord or power failure occurs, the changed access code will be lost and will return to default (0000). Change your access code again as necessary.

## FM MODE (13" MODEL ONLY)

This function enables you to receive FM radio broadcasting.

### 1 Set the FM mode

Press the TV/FM button on the remote control. The radio frequency appears on the TV screen.



### 2 Select the radio frequency you want to receive

Press the CHANNEL ▲ or ▼ button until your desired radio frequency appears.

#### NOTES:

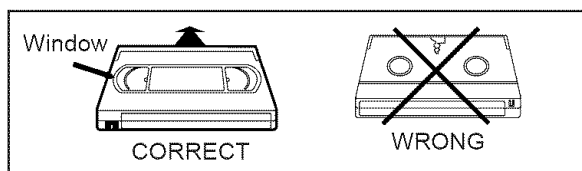
- The radio frequency indication repeats to appear and disappear.
- You can not record the FM radio station.
- If you receive a weak radio signal, you may change the FM Antenna mode to INT(internal) or EXT(external) by following the step below.
  - 1) Press the MENU button. Press the PLAY/▲ or STOP/▼ button to point to "CHANNEL SET UP". Then, press the F.FWD/▶ button.
  - 2) Press the PLAY/▲ or STOP/▼ button to point to "FM ANTENNA". Select [INT] or [EXT] using the F.FWD/▶ or REW/◀ button.

## PLAYBACK

This TV/VCR will operate with any cassette that has the **VHS** mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

### INSERTING A CASSETTE

Insert the cassette in the direction as shown. Push in gently, but continuously, on the center-back of the cassette until it is drawn into the TV/VCR. The TV/VCR will automatically turn on.



### PRECAUTIONS

- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place or visa versa. Before using a tape with these conditions, to avoid damage of the tape and your TV/VCR, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields from speaker systems.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

## NORMAL PLAYBACK

Make sure ...

- TV/VCR power must be turned on.

### 1 Insert a prerecorded tape

If the erase-protection tab has been removed, the TV/VCR will start playback automatically.

### 2 To begin playback

Press the PLAY button.

**Note:** If any menu is activated on the screen, the PLAY button does not function. Press the MENU button to clear the menu, then press the PLAY button.



### 3 To stop playback

Press the STOP button when playback is completed.

## AUTO REPEAT PLAYBACK

The TV/VCR has an auto repeat function that allows you to repeat a tape indefinitely without touching the PLAY button.

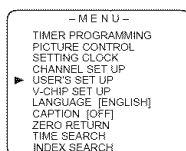
**ALL REPEAT:** Repeat playback from the beginning to the end of the tape.

**BLANK REPEAT:** Repeat playback from the beginning to a blank part of more than 10 seconds.

### 1 Select "USER'S SET UP"

Press the MENU button on the remote control.

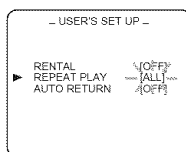
Press the PLAY/▲ or STOP/▼ button to point to "USER'S SET UP". Then, press the F.FWD/▶ button.



### 2 Select "ALL" or "BLANK"

Press the PLAY/▲ or STOP/▼ button to point to "REPEAT PLAY".

Press the F.FWD/▶ or REW/◀ button repeatedly until your desired selection [ALL] or [BLANK] appears.



### 3 Exit the Repeat Play setting

Press the MENU button on the remote control to return to the TV mode.

### 4 Start playback

Press the PLAY button to start the Repeat Play. "REPEAT PLAY ▶" appears.

- Once you select the Repeat Play mode, it stays in effect even after you turn off the TV/VCR.
- If the Rental mode is set [ON], the "RENTAL PLAY ▶" display has priority.

## TO CANCEL THE REPEAT PLAY MODE

Repeat steps [1] and [2], select [OFF] using the F.FWD/▶ or REW/◀ button on the remote control. Press the MENU button on the remote control to return to TV mode.

**If there is a power failure of any kind, the unit will retain its memory for this feature.**

## SEARCH

### PICTURE SEARCH

This feature is very useful in finding or skipping over a particular scene on a tape. In this mode, the sound will be muted.

- 1) You may view a video tape at a high speed in either a forward or reverse direction by pressing the F.FWD or REW button during playback (in the SP / LP / SLP modes).
- 2) Press it again and the TV/VCR will now search in super high speed (in the LP / SLP modes only).  
**NOTE:** Tapes recorded in the SP or LP mode will display a noise bar on the TV screen and the picture may revert to Black and White. This is normal.
- 3) Press the PLAY button to return to normal speed.

### ZERO RETURN

This function allows you to search easily a beginning point that you want to review by rewinding or fast forwarding.

**NOTE:**

Zero Return **WILL NOT** work on a blank tape or a blank portion of a tape.

### 1 Stop a tape at your desired point

Rewind or fast forward the tape to the beginning point from which you want to review.

### 2 Reset the counter to 0:00:00

Press the COUNTER RESET button repeatedly.

### 3 Begin recording or playback

Press the RECORD or PLAY button.

Press the STOP button when recording or playback is completed.

### 4 To activate "ZERO RETURN"

mode

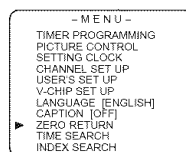
Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "ZERO RETURN".

Then, press the F.FWD/▶ button.

The counter will appear on the TV screen.

The tape will automatically stop when the counter returns to 0:00:00.



## TIME SEARCH

The Time Search function makes it possible to quickly advance the tape to your desired position simply by entering the exact amount of playback time you want to skip.

### NOTES:

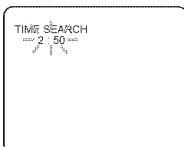
- Time Search can be set up to a maximum of 9 hours 50 minutes (9:50) by 10 minutes at a time.
- This function will not operate in recording mode.

*In the example below:* To watch a program that is 2 hours, 50 minutes from the present tape position, in either direction.

1 Insert a tape.

2 Select "TIME SEARCH" mode

Press the TIME SEARCH button (with each push it will increase by 10 minutes).



3 Enter your desired time

Press the PLAY/▲ or STOP/▼ button until your desired time appears. (Example: "2:50" stands for 2 hours 50 minutes)

If you wish to cancel the Time Search at this point, press the MENU button on the remote control.

4 Begin Time Search

By pressing the REW/◀ or F.FWD/▶ button, the TV/VCR will rewind or fast forward to the specified point.

The time counts down as the searching progresses. When 0:00 is reached, the tape will start playback automatically.

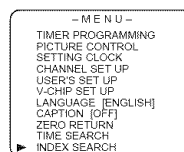
### TO CANCEL THE TIME SEARCH at this point

Press the STOP/EJECT button on the TV/VCR or the remote control. This will delete the selected time.

## INDEX SEARCH

An index signal is recorded on the tape automatically when the recording is started. To view a recording at a specific start point:

- 1) Press the MENU button on the remote control. Press the PLAY/▲ or STOP/▼ button to point to "INDEX SEARCH", then press the F.FWD/▶ button.
- 2) Press the PLAY/▲ or STOP/▼ button within 30 seconds until the number of programs that you want to skip appears.
- 3) Press the F.FWD/▶ or REW/◀ button to start index search. If you want to go forward, press the F.FWD/▶ button. If you want to go back, press the REW/◀ button.



- After index search, the TV/VCR will play the tape automatically.
- In some cases, the index mark at the beginning of video tape cannot be detected.

## SLOW MOTION

Press the SLOW button to reduce the playback speed. The TV/VCR mutes the sound during slow motion. Press the PLAY button to return to normal playback.

**NOTE:** If left in the Slow mode for more than five minutes, the TV/VCR will automatically go into the Stop mode.

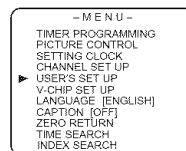
## RENTAL PLAYBACK

This function enables you to improve the picture quality when playing back worn cassettes such as rented tapes.

1 Select "USER'S SET UP"

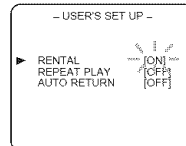
Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "USER'S SET UP". Then, press the F.FWD/▶ button.



2 Set "RENTAL" to [ON]

Press the PLAY/▲ or STOP/▼ button to point to "RENTAL". Press the F.FWD/▶ or REW/◀ button until [ON] appears.



3 Exit the Rental setting

Press the MENU button on the remote control to return to the TV mode.

4 Start playback

Press the PLAY button to start playback. "RENTAL PLAY ▶" appears.

- Once you select the Rental mode, it stays in effect even after you turn off the TV/VCR.

### TO CANCEL THE RENTAL MODE

Repeat steps [1] and [2], select [OFF] using the F.FWD/▶ or REW/◀ button on the remote control. Press the MENU button on the remote control to return to TV mode.

**If there is a power failure of any kind, the unit will remember the setting.**

## VERTICAL HOLD CONTROL

In the Pause/Still mode only, when the picture begins to vibrate vertically, stabilize the picture by pressing the CHANNEL ▲ or ▼ button.

### NOTE:

If there are video noise lines on the screen, see Tracking Adjustment section.

## STILL PICTURE

You can view a still picture on the TV screen during playback (the Still mode). Press the PAUSE/STILL button during playback. Only tapes recorded in the SLP mode will show the least amount of lines. Press the PLAY button to return to playback.

### NOTES:

- You can advance the picture one frame at a time by pressing the PAUSE/STILL button during the Still mode.
- If it is left in the Still mode for more than five minutes, the TV/VCR will automatically switch to the Stop mode.

## TRACKING ADJUSTMENT

- Tracking adjustment will be set automatically (Digital Tracking function) when you start playback.
- However when playing pre-recorded tapes or tapes recorded on units other than your own, noise lines (black and white streaks) may appear on the playback picture. If this occurs, you can adjust the tracking control manually by pressing the CHANNEL ▲ or ▼ button until the streaks disappear. To return to the DTR function, stop the tape once and start playback again.
- You can reduce the noise lines by pressing the CHANNEL ▲ or ▼ button in slow mode, too. Tracking adjustment in Slow mode will not be set automatically.

### NOTE:

- In Still mode, press the SLOW button and press the CHANNEL ▲ or ▼ button until streaks disappear. To return to Still mode, press the PAUSE/STILL button again.

## RECORDING

### *Before recording, make sure:*

The desired channel is selected by pressing the number buttons on the remote control or the CHANNEL Up/Down button. (If the TV/VCR is connected to a cable box or satellite box, the TV/VCR must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.)

There is a tape with its safety tab into the VCR.

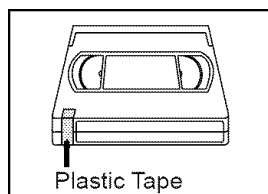
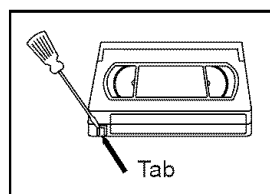
The desired recording speed is selected in SP(standard play) or SLP(super long play) mode by pressing the SPEED button on the remote control.

Tape Speed	Recording/Playback Time		
Type of tape	T60	T120	T160
SP mode	1 hour	2 hours	2-2/3 hours
SLP mode	3 hours	6 hours	8 hours

### ERASE PREVENTION

You can prevent accidental erasing of recording by breaking off the tab on the back edge of the cassette.

If you decide to record on the tape again, cover the hole with plastic tape.



### *Make sure ...*

- TV/VCR power is turned on.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

**NOTE:** This unit will ONLY record and view the same channel.

## NORMAL RECORDING

1) Begin the recording by pressing the RECORD button.

To temporarily stop recording or resume it, press the PAUSE/STILL button. After the TV/VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.

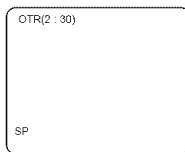
### NOTES:

- After five minutes, the TV/VCR will automatically switch to the Recording mode to prevent tape damage.
  - If "CLOSED CAPTION (ON)" is selected, the On-Screen Display will appear for 5 seconds, then disappear.
- 2) Stop the recording by pressing the STOP button when recording is completed.

## OTR (One Touch Recording)

This function enables you to set the recording length simply by pressing the REC/OTR button on the TV/VCR.

- 1) Begin OTR by pressing the REC/OTR button on the TV/VCR repeatedly until the desired recording length appears. Recording stops when 0:00 is reached.



### NOTES:

- This function CANNOT be done from the remote control.
- To stop the OTR operation, press the STOP button on the TV/VCR or on the remote control.
- If the tape runs out before the end time, the TV/VCR will switch to the Stop mode immediately, eject the tape and turn itself off.
- If you press the power button during OTR, the TV monitor turns off. But the recording continues until the selected length is reached.

Push(es)	Display	Recording length
1 push	(continuous recording)	
2 pushes	0:30	30 minutes
3 pushes	1:00	60 minutes
4 pushes	1:30	90 minutes
↓	↓	↓
17 pushes	8:00	480 minutes

## TIMER RECORDING

You may set the TV/VCR to start and end a recording while you are away. You can set 8 programs to record on specific days, daily or weekly within a 1 year period.

*In the example below, the timer is being set to record:*

DATE: July 4th, 2004  
 SETTING TIME: from 7:30PM to 8:50PM  
 CHANNEL: CH61  
 TAPE SPEED: SP

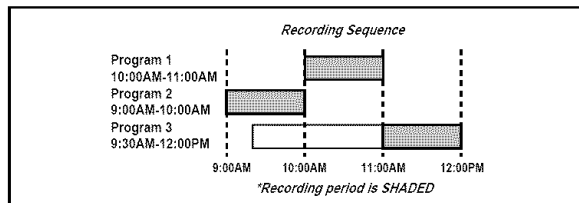
### Make sure ...

- If your TV/VCR is connected to a cable or satellite box, you must set the TV/VCR to channel 3 or 4 to match the output channel of the box.
- Clock is set to the correct time and date before setting the timer.
- TV/VCR power is turned on to program it.
- To insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)
- The channel you want to record is properly set in advance.

### Avoid overlap of programs ...

There is a chance that a program will not be recorded. When programs overlap:

- The program with the earliest start time will record first.
- Once the earliest program finishes recording, the overlapping programs will record in the order of the program number.
- The illustration below demonstrates the sequence of recording.

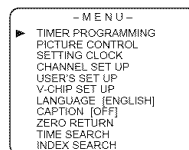


### 1 Select "TIMER PROGRAMMING"

Press the MENU button on the remote control.

Confirm "TIMER PROGRAMMING" is pointed to by pressing the PLAY/▲ button.

Press the F.FWD/▶ button.

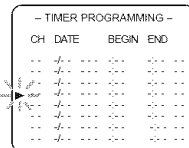


- If you have not yet set the clock, "MANUAL CLOCK SET" appears. If so, follow steps [3] to [8] on page 11. Then set the timer recording.

### 2 Select your desired program position (1~8)

Press the PLAY/▲ or STOP/▼ button to select the desired program position.

Then, press the F.FWD/▶ button.



### 3 Set the channel number

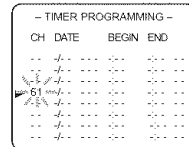
Press the PLAY/▲ or STOP/▼ button until the desired channel number appears.

(Example: CH61)

Then, press the F.FWD/▶ button.

Remember:

If your TV/VCR is connected to a cable or satellite box, you must set the TV/VCR to channel 3 or 4 to match the output channel of the box. Then, select CH61 on the cable or satellite box.



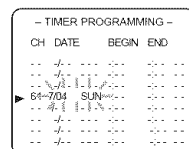
### 4 Select once, every day or

weekly recording

*For once recording :*

Press the PLAY/▲ (up) button until the desired date appears.

(Example: "7/04" for July 4th). Then, press the

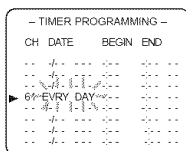


F.FWD/▶ button.

**For every day recording :** To record a TV program at the same time on the same channel every day.

(Example: Monday through Sunday)

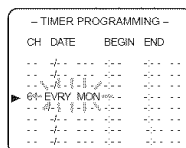
Press the STOP/▼ (down) button until “EVERY DAY” appears. Then, press the F.FWD/▶ button.



**For weekly recording :** To record a TV program at the same time on the same channel every week.

(Example: every Monday)

Press the STOP/▼ (down) button until “EVRY” and your desired day of the week appear together. Then, press the F.FWD/▶ button.

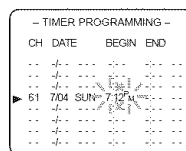


### 5 Set beginning hour

Press the PLAY/▲ or STOP/▼ button until the desired hour appears.

(Example: “7, PM” for 7:30PM)

Then, press the F.FWD/▶ button.

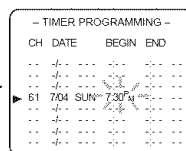


### 6 Set beginning minute

Press the PLAY/▲ or STOP/▼ button until the desired minute appears.

(Example: “30” for 7:30PM)

Then, press the F.FWD/▶ button.

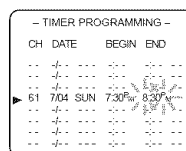


### 7 Set end hour

Press the PLAY/▲ or STOP/▼ button until the desired hour appears.

(Example: “8, PM” for 8:50PM)

Then, press the F.FWD/▶ button.

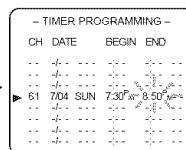


### 8 Set end minute

Press the PLAY/▲ or STOP/▼ button until the desired minute appears.

(Example: “50” for 8:50PM)

Then, press the F.FWD/▶ button.

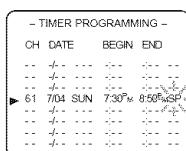


### 9 Set the tape speed

Press the PLAY/▲ or STOP/▼ button until the desired tape speed appears.

(Example: SP)

Then, press the F.FWD/▶ button.



The program is now completed.

- To set another program, repeat steps [2] to [10].
- Press the MENU button on the remote control to return to original mode.

## 10 Set the timer

Press the POWER button to set automatic timer recording. The RECORD indicator lights up.

- You must turn off the TV/VCR to activate automatic timer recording.

If power is not turned off and you continue watching TV, “TIMER REC STANDBY” starts flashing on the TV screen 2 minutes before the programmed start time.

## TIMER PROGRAM EXTENSION

To shift the time schedule of an automatic timer recording.

- 1) Press the POWER button.
- 2) Repeat step [1] on page 21.
- 3) Press the RECORD button and select the desired program using the PLAY/▲ or STOP/▼ button.
- 4) Press the RECORD button again.

Each additional push will shift forward the begin/end time for recording by 10 minutes. When the recording is already in progress, each additional push will shift forward the end time only. If you want to cancel while setting, press the PAUSE/STILL button on the remote control. The recording time returns to the original time.

**NOTE:** When you shift forward the time schedule during recording, the recording speed will automatically be set to the SLP mode.

- 5) Press the F.FWD/▶ or REW/◀ button to exit the setting menu. Then press the MENU button on the remote control to return to original mode.

## TO CORRECT A PROGRAM

- **While setting a program;** press the REW/◀ button to go back one step and enter the correct numbers using the PLAY/▲ or STOP/▼ button.
- **After setting a program;**
  - 1) Press the POWER button.
  - 2) Repeat steps [1] - [2] on page 21.
  - 3) Press the F.FWD/▶ button (or press the REW/◀ button to go back one step) until the part you want to correct begins flashing, then make the changes pressing the PLAY/▲ or STOP/▼ button.
  - 4) Press the POWER button to set automatic timer recording.

## TO CANCEL AN AUTOMATIC TIMER RECORDING

### • After setting a program;

- 1) Press the POWER button.
- 2) Repeat steps [1] ~ [2] under TIMER RECORDING, page 21, and select a program you want to cancel.
- 3) Press the T-PROG. CLEAR button.
- 4) Press the MENU button on the remote control to return to TV mode.

### • While recording is in progress;

- 1) Press POWER button.
- 2) Press the STOP/EJECT button on the TV/VCR.

## TO CHECK THE BEGIN/END TIME

- 1) Press the POWER button so that the REC indicator goes off.
- 2) Press the MENU button on the remote control.
- 3) Confirm "TIMER PROGRAMMING" is pointed to.
- 4) Press the F.FWD/▶ button. The details of programs appear on the TV screen.
- 5) Press the MENU button on the remote control to return to TV mode.

## HINTS FOR AUTOMATIC TIMER RECORDING

- Make sure the channel you want to record is properly set in advance.
- It is not necessary to press the RECORD button for timer recording.
- Recording begins automatically at the Start time.
- If you are recording using a Timer mode, you may not operate the unit manually.
- The erase-prevention tab on the cassette must be in place (or you must put tape over the hole).
- If the erase-prevention tab is removed, the cassette will be ejected when the POWER button is pressed to off.
- If the tape runs out before the end time, the TV/VCR will switch to the Stop mode immediately, and the tape will be ejected.

## AUTO RETURN

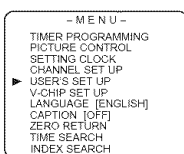
With this feature, after timer recording is finished, the beginning of the recorded program(s) can be searched for automatically.

### 1 Select "USER'S SET UP"

Press the MENU button on the remote control.

Press the PLAY/▲ or STOP/▼ button to point to "USER'S SET UP".

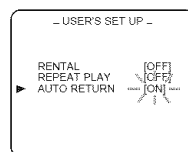
Then, press the F.FWD/▶ button.



### 2 Set "AUTO RETURN" to [ON]

Press the PLAY/▲ or STOP/▼ button to point to "AUTO RETURN".

Press the F.FWD/▶ or REW/◀ button until [ON] appears. Then, press the MENU button on the remote control to return to TV mode.



### 3 Auto Return will begin

When all the timer recordings are completed, the TV/VCR will rewind to the beginning of the recorded program(s).

#### NOTE:

- If you press the POWER button while tape is rewinding, the Auto Return will stop.

### 4 Watch the recorded program

Press the PLAY button.

## TO CANCEL THE AUTO RETURN MODE

Repeat steps [1] and [2], select [OFF] using the F.FWD/▶ or REW/◀ button. Then, press the MENU button on the remote control to return to TV mode.

**If there is a power failure of any kind, the unit will retain its memory for this feature.**

## WAKE UP TIMER

The Wake Up Timer function turns on the TV/VCR without using the POWER button after a desired period of time.

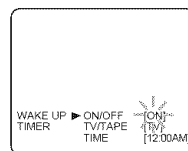
#### NOTES:

- Use the remote control for this procedure.
- Clock must be set to the correct time before setting the timer.
- If you want to select [TAPE], you must insert a cassette tape in the TV/VCR. The tape will start playback automatically on your desired time.

### 1 Select "WAKE UP TIMER"

Press the WAKE-UP/SLEEP button on the remote control once, and confirm "ON/OFF" is pointed.

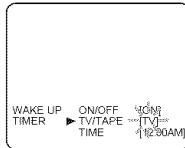
Press the F.FWD/▶ or REW/◀ button until [ON] appears.



## SLEEP TIMER

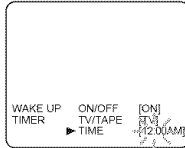
### 2 Select "TV" or "TAPE"

Press the PLAY/▲ or STOP/▼ button until it points to "TV/TAPE".  
Press the F.FWD/▶ or REW/◀ button, and select [TV] or [TAPE].



### 3 Set wake up time

Press the PLAY/▲ or STOP/▼ button until it points to "TIME".  
Press the F.FWD/▶ or REW/◀ button until your desired wake up time appears.



Each additional push will increase (or decrease) the time by 10 minutes.

### 4 Exit the Wake Up Timer setting

Press the MENU button on the remote control to return to TV mode.

### TO CANCEL THE WAKE UP TIMER

Press the WAKE-UP/SLEEP button on the remote control once, and confirm "ON/OFF" is pointed.  
Press the F.FWD/▶ or REW/◀ button until [OFF] appears.

The Sleep Timer function turns off the TV/VCR without using the POWER button after a desired period of time.

### NOTE:

- This function does not operate during Recording mode.

### 1 Select "SLEEP TIMER"

Press the WAKE UP/SLEEP button on the remote control until "SLEEP TIMER" appears.

### 2 Set sleep time

Press the PLAY/▲, STOP/▼, F.FWD/▶ or REW/◀ button until your desired sleep time appears.



Each additional push will increase the time by 30 minutes up to 120 minutes.

Press the MENU button on the remote control to exit the Sleep Timer setting.

### TO CANCEL THE SLEEP TIMER

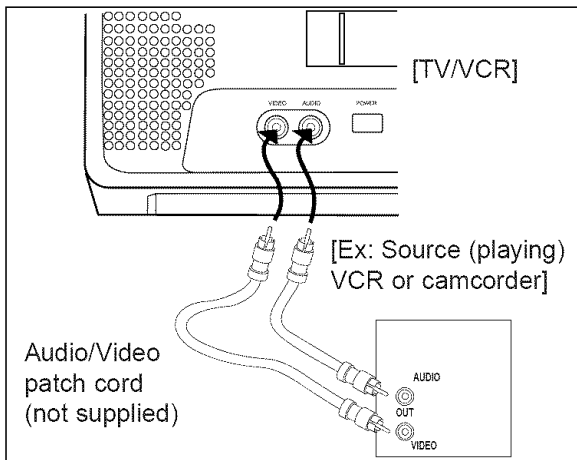
Press the WAKE UP/SLEEP button on the remote control until "SLEEP TIMER" appears.  
To view the time left for sleep timer, press the WAKE-UP/SLEEP button twice, then press the MENU button on the remote control to exit the sleep timer setting.

## COPYING A VIDEO TAPE

You can make copies of video tapes made by friends or relatives for your enjoyment.

**WARNING: Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.**

Connect your TV/VCR and a Source (Playing) VCR using the following diagram.



- 1) Insert a pre-recorded video cassette into the Source (Playing) VCR or camcorder.
- 2) Insert a blank video cassette, or one you want to record into the TV/VCR's cassette compartment.
- 3) Press the SPEED button on remote control for the TV/VCR to select the desired recording speed (SP/SLP).
- 4) Press the CHANNEL ▲ or ▼ button on the TV/VCR until "AUX" appears on the screen.  
**NOTE:** "AUX" is found below the lowest numbered memorized channel. (Example: CH2)
- 5) Press the RECORD button on the TV/VCR.
- 6) Begin playback of the tape in the source (Playing) VCR or camcorder.  
**NOTE:** For best results during copying, use the TV/VCR's front panel controls whenever possible. The remote control might affect the source (Playing) VCR's playback operation.
- 7) To stop copying, press STOP/EJECT button on the TV/VCR, then stop the tape on the source VCR or camcorder.

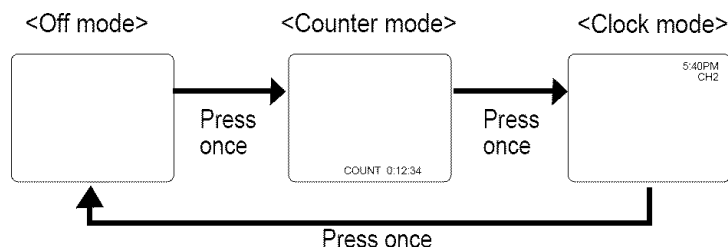


## ON SCREEN DISPLAY

To check the Counter, Clock and Channel number on the TV screen, press the DISPLAY button on the remote control. Each time you press the DISPLAY button on the remote control, the TV screen will change as follows:

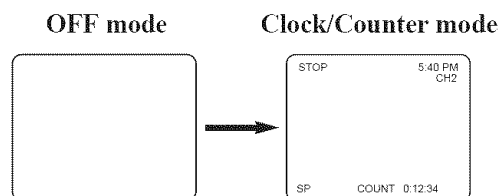
### WHEN THE CLOSED CAPTION MODE IS OFF:

- Counter mode: After 5 seconds, only the counter remains. To clear it, press the DISPLAY button.
- Clock mode: After 5 seconds, only the clock and the channel number remain. To clear them, press the DISPLAY button.



### WHEN THE CLOSED CAPTION MODE IS ON:

- The On Screen Display disappears after 5 seconds.
- This is true even if the MUTE button is pressed, or the PAUSE/STILL button is pressed while recording.



## SPECIAL FEATURES

### REAL TIME TAPE COUNTER

This shows the elapsed recording or playback time in hours, minutes, and seconds. (The displayed time will not change on a blank tape or blank portions on the tape.) The “-” indication will appear when the tape has rewound further than “0:00:00” on the tape counter.

### AUTO REWIND-EJECT

- When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the TV/VCR will eject the tape and turn itself off.
- This function is operative when Repeat Play is set to the [OFF] position.
- The tape will not auto-rewind during timer recording or One Touch Recording.

## MAINTENANCE

### CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the TV/VCR with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the TV/VCR. Such chemicals may cause damage and discoloration to the exposed surfaces.

### AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem.

If a streaky or snowy picture appears during play-

back, the video heads in your TV/VCR may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, please call our help line at 1-800-488-1222, to locate an Authorized Service Center.

### NOTES:

- Remember to read the instructions included with the video head cleaner before use.
- Clean video heads only when problems occur.

### SERVICING

- Should your TV/VCR become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord, and please call our help line at 1-800-488-1222, to locate an Authorized Service Center.

## TROUBLESHOOTING GUIDE

If you have followed the instructions contained in this manual and have difficulty in operating your TV/VCR, locate the **PROBLEM** in the left column below. Check the corresponding **CORRECTIVE ACTION** column to remedy the problem.

PROBLEM	CORRECTIVE ACTION
No power.	<ul style="list-style-type: none"> <li>• Make sure the AC cord is connected to an AC outlet.</li> <li>• Make sure the power is turned on.</li> </ul>
No picture and sound.	<ul style="list-style-type: none"> <li>• Make sure the AC cord is connected to an AC outlet.</li> <li>• Check antenna connection.</li> <li>• Program TV channels into TV/VCR.</li> </ul>
No picture or poor picture on TV/VCR.	<ul style="list-style-type: none"> <li>• Adjust direction or replace antenna.</li> <li>• Adjust picture controls.</li> </ul>
No sound or poor sound.	<ul style="list-style-type: none"> <li>• Adjust volume control on remote control or main unit.</li> <li>• Press the MUTE button to restore sound.</li> </ul>
Timer recording is not possible.	<ul style="list-style-type: none"> <li>• Make sure the timer recording is set correctly.</li> <li>• Make sure the power is off.</li> <li>• Make sure the TV/VCR clock is set correctly.</li> </ul>
Cannot go into Record mode.	<ul style="list-style-type: none"> <li>• Make sure the video tape has an erase-prevention tab in place. If the tab has been removed, please cover the open space with tape.</li> </ul>
Playback picture is partially noisy.	<ul style="list-style-type: none"> <li>• Adjust tracking control for a better picture using the CHANNEL ▲ or ▼ button on the TV/VCR.</li> </ul>
No picture but the audio is OK for tape playback.	<ul style="list-style-type: none"> <li>• Head cleaning may be necessary. Refer to "AUTO HEAD CLEANING" on page 25.</li> </ul>
No operation by infrared Remote Control.	<ul style="list-style-type: none"> <li>• Make sure the AC cord is connected to an AC outlet.</li> <li>• Check batteries in remote control.</li> </ul>
Video or color fades in and out when making a copy of a video tape.	<ul style="list-style-type: none"> <li>• You can not copy a copyrighted video tape. You are experiencing copy guard protection.</li> </ul>
Different color marks on screen.	<ul style="list-style-type: none"> <li>• Magnetism from nearby appliances or unshielded stereo speakers or geomagnetism might affect the color of the TV picture. Refer to "DEGAUSSING" on page 14.</li> </ul>

CLOSED CAPTION PROBLEM	POSSIBLE REMEDY
My TV/VCR is showing captions that are misspelled.	<ul style="list-style-type: none"> <li>• You are watching a live broadcast and spelling errors made by the closed captioning production company may pass through uncorrected. A prerecorded program will not show any misspelled words because of the normal time available for editing the captions.</li> </ul>
My TV/VCR will not show the text in its entirety or there is a delay of what is being said.	<ul style="list-style-type: none"> <li>• Captions that are delayed a few seconds behind the actual dialogue are common for live broadcast. Most captioning production companies can display a dialogue to a maximum of 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue.</li> </ul>
My captions are scrambled with white boxes on the TV screen.	<ul style="list-style-type: none"> <li>• Interference caused by building, power lines, thunderstorms, etc. may cause scrambled or incomplete captions to appear.</li> </ul>
My program guide listed a TV show as being closed captioned but none of the captions were displayed.	<ul style="list-style-type: none"> <li>• Broadcasters may at times use a time compression process to speed up the actual program so that additional advertising time can be given. Since the decoder cannot read the compressed information, captions will be lost.</li> </ul>
My prerecorded video tape does not show any captions. The tape box mentions it being closed captioned.	<ul style="list-style-type: none"> <li>• The video tape was either an illegal copy or the tape duplicating company accidentally left out the captioning signals during the copying process.</li> </ul>
My TV screen shows a black box on certain channels.	<ul style="list-style-type: none"> <li>• You are in the TEXT mode. Select CAPTION mode to CAPTION [OFF].</li> </ul>

# SPECIFICATIONS

## GENERAL SPECIFICATIONS

CRT : 13 or 19 inch in-line gun, 90° deflection tube

Television system : NTSC-M

Closed caption system : §15.119/FCC

Video Heads : Rotary four-head

Tape width : 1/2 inch

Tape speed  
 SP : 33.40mm/sec.  
 LP : 16.67mm/sec.  
 SLP : 11.12mm/sec.

Tuner channel  
 TV VHF Low : #2-#6  
 TV VHF High : #7-#13  
 TV UHF : #14-#69  
 CATV  
 VHF : 5A  
 MID band : A5~A1, A~I  
 SUPER band : J~W  
 HYPER band : W+1~W+84  
 FM: 88~108MHz (13" only)

Terminals  
 Antenna input : VHF/UHF 75 ohms unbalanced

Video input : RCA connector × 1

Audio input : RCA connector × 1

Earphone : 1/8" monaural (3.5 mm)

## ELECTRICAL SPECIFICATIONS

Video input level : 0.5~2.0Vp-p

Audio input level : -15dB

Video S/N ratio : More than 46dB

Audio S/N ratio : More than 43dB

## OTHER SPECIFICATIONS

### [ 13 inch model ]

Power requirement : AC 120V/60Hz

Power consumption : 60W

Dimensions : H:15-5/16" (389mm)  
 W:14-7/16" (367mm)  
 D:14-7/8" (377mm)

Weight : 23.1 lbs (10.5kg)

### [ 19 inch model ]

Power requirement : AC 120V/60Hz

Power consumption : 80W

Dimensions : H:19-7/16" (493mm)  
 W:19-5/16" (491mm)  
 D:18-11/16" (475mm)

Weight : 43.0 lbs (19.5kg)

- Designs and specifications are subject to change without notice and without our legal obligation.
- If there is a discrepancy between languages, the default language will be English.

## CABLE CHANNEL DESIGNATIONS

If you subscribe to cable TV, the channels are displayed as 1-125. Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

CATV channel	5A	2	3	4	5	6	7	8	9	10	11	12	13	A	B
TV Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CATV channel	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
TV Display	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CATV channel	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9
TV Display	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CATV channel	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24
TV Display	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CATV channel	W+25	W+26	W+27	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39
TV Display	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
CATV channel	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48	W+49	W+50	W+51	W+52	W+53	W+54
TV Display	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
CATV channel	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
TV Display	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
CATV channel	W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79
TV Display	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CATV channel	W+80	W+81	W+82	W+83	W+84										
TV Display	121	122	123	124	125										

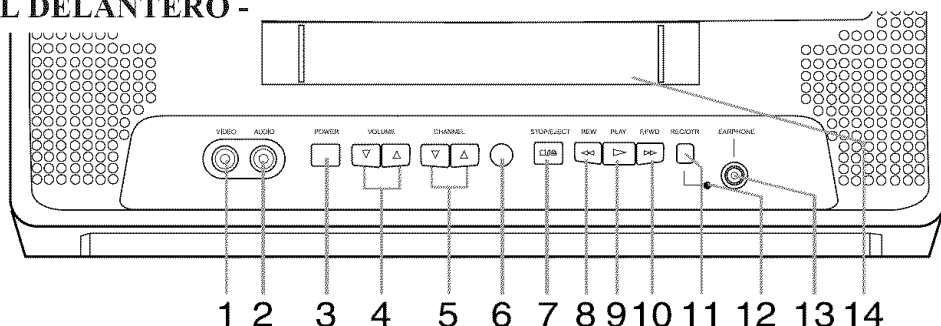
## CONTROLES DE OPERACIÓN Y SUS FUNCIONES

Este manual sirve para los modelos de 13" y 19". A excepción de la apariencia, la operación de los dos modelos es exactamente la misma. En este manual se muestra el modelo de 13".

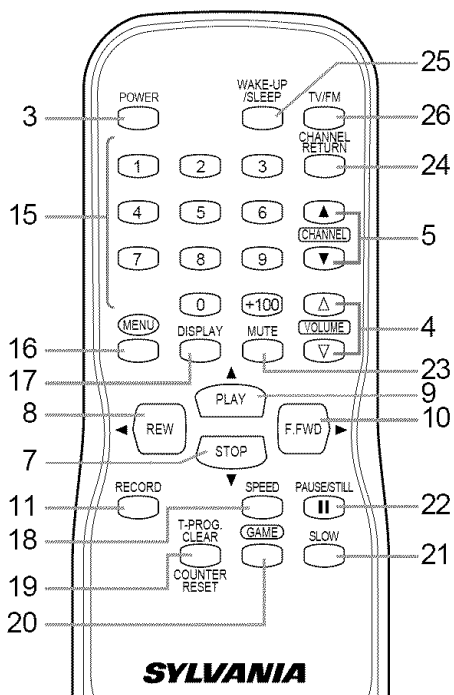
### NOTA:

No recomendamos utilizar mandos a distancia universales. No todas las funciones pueden ser controladas mediante un mando a distancia universal. Si decide utilizar un mando a distancia universal con esta unidad, tenga en cuenta que con el número de código dado tal vez no se pueda controlar la unidad. En este caso, póngase en contacto con el fabricante del mando a distancia universal.

### - PANEL DELANTERO -



### - CONTROL REMOTO -



- 1 **Toma de entrada de vídeo (VIDEO)**– Conéctela a la toma de salida de vídeo de su videocámara u otra videograbadora.
- 2 **Toma de entrada de audio (AUDIO)**– Conéctela a la toma de salida de audio de su equipo de audio, videocámara u otra videograbadora.
- 3 **Botón de la alimentación (POWER)**– Púlselo para encender y apagar el televisor/videograbadora. Púlselo para activar la grabación con temporizador.

- 4 **Botones de volumen (VOLUME ▲/ ▼)**– Ajustan el nivel del volumen.

- 5 **Botones de canales (CHANNEL ▲/ ▼)**– Púlselos para seleccionar los canales deseados para ver o grabar.

Se puede mostrar el menú principal en la pantalla del televisor pulsando repetidamente este botón del televisor/videograbadora.

**Función de seguimiento**– Pulse los botones para minimizar el ruido de vídeo (líneas o puntos en la pantalla) durante la reproducción.

- 6 **Ventanilla sensora del mando a distancia**– Recibe las señales infrarrojas procedentes del mando a distancia.

- 7 **Botón ▼**–

- Púlselo para seleccionar los modos de ajuste desde el menú de la pantalla.
- Púlselo para introducir dígitos cuando establezca un programa.

(Por ejemplo: Para ajustar el reloj o establecer un programa de temporizador)

[ Televisor/videograbadora ]

**Botón de parada/expulsión (STOP/EJECT)**– Púlselo para detener la cinta. Púlselo en el modo de parada para expulsar la cinta del televisor/videograbadora.

[ Control remoto ]

**Botón de parada (STOP)**– Púlselo para detener la cinta.

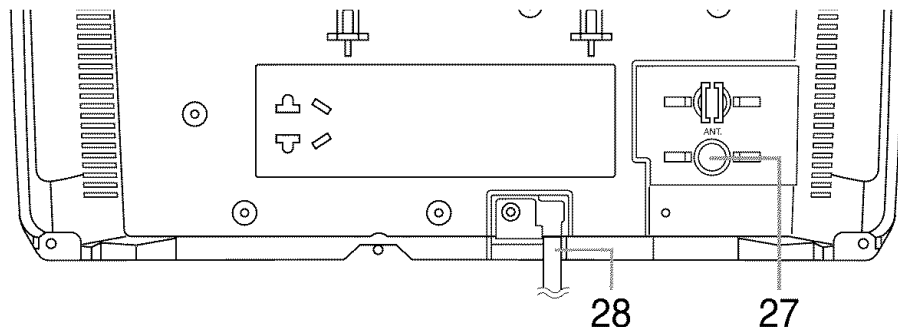
- 8 **Botón de rebobinado (REW)**– Púlselo para rebobinar la cinta, o para ver la imagen en retroceso rápido durante el modo de reproducción. (Búsqueda con rebobinado)

**Botón ←**

- Púlselo para seleccionar un modo desde un menú particular.

(Por ejemplo: IDIOMA o ADJUST DE USER)

## - PANEL TRASERO -



**9 Botón de reproducción (PLAY)**– Púlselo para iniciar la reproducción.

### Botón ▲–

- Púlselo para seleccionar los modos de ajuste desde el menú de la pantalla.
- Púlselo para introducir dígitos cuando establezca un programa.

(Por ejemplo: Para ajustar el reloj o establecer un programa de temporizador)

**10 Botón de avance rápido (F.FWD)**– Púlselo para avanzar rápidamente la cinta, o para ver la imagen en avance rápido durante el modo de reproducción. (Búsqueda con avance rápido)

### Botón ►–

- Cuando establezca un programa (por ejemplo: para ajustar el reloj o para establecer un programa de temporizador), púlselo para determinar su elección y vaya al paso siguiente que quiera introducir.
- Púlselo para determinar los modos de ajuste desde el menú de la pantalla.
- Púlselo para seleccionar un modo desde un menú particular.

(Por ejemplo: IDIOMA o ADJUST DE USER)

**11 Botón de grabación (REC)**– Púlselo para iniciar la grabación manual.

### Botón de grabación de un toque (OTR)–

Activa la grabación de un toque. (Sólo en el televisor/videograbadora)

**12 Indicador de grabación (RECORD)**– Parpadea durante la grabación.

Se enciende en el modo de espera de la grabación con temporizador.

**13 Toma de auriculares (EARPHONE)**– Para conectar los auriculares (no suministrados) y escuchar en privado. La toma es mono y tiene un tamaño de 1/8" (3,5 mm).

**14 Compartimiento del videocasete**

**15 Botones numerados**– Púlselos para seleccionar los canales deseados para ver o grabar. Para seleccionar canales del 1 al 9, pulse primero el botón 0 y luego el botón 1 a 9.

**Botón +100**– Cuando seleccione canales de televisión por cable cuyo número sea superior al 99, pulse primero este botón, y luego pulse los dos últimos dígitos. (Para seleccionar el canal 125, pulse primero el botón "+100" y luego el "2" y el "5".)

**16 Botón de menú (MENU)**– Púlselo para visualizar el menú principal en la pantalla del televisor.

**17 Botón del visualizador (DISPLAY)**– Visualiza el contador o el número del canal actual y la hora actual en la pantalla del televisor.

**18 Botón de velocidad de cinta (SPEED)**– Púlselo para elegir la velocidad de grabación deseada: SP/SLP.

**19 Botón T-PROG. CLEAR**– Púlselo para cancelar un programa de temporizador.

### Botón de reposición del contador

**(COUNTER RESET)**– Púlselo para reponer el contador a 0:00:00.

**20 Botón de juego (GAME)**– Establece el modo del juego y el modo de entrada externa al mismo tiempo.

**21 Botón de cámara lenta (SLOW)**– Púlselo para activar la reproducción a cámara lenta.

**22 Botón de pausa/imagen fija (PAUSE/STILL)**– Púlselo para detener temporalmente la cinta durante la grabación o para ver una imagen fija durante la reproducción.

**23 Botón de silenciamiento (MUTE)**– Silencia el sonido. Púlselo de nuevo para recuperar el sonido.

**24 Botón de retorno de canal (CHANNEL**

**RETURN)**– Púlselo para volver al canal anterior.

Por ejemplo, pulsando una vez este botón, la visualización del canal cambiará de 3 (canal actual) a 10 (canal anterior), y al pulsarlo por segunda vez, el canal cambiará del 10 al 3.

**25 Botón del temporizador despertador/para dormir (WAKE-UP/SLEEP)**– Ajusta el temporizador para despertarse/dormir.

**26 (13" model) Botón de televisor/modulación de frecuencia (TV/FM)** – Establece el modo FM.

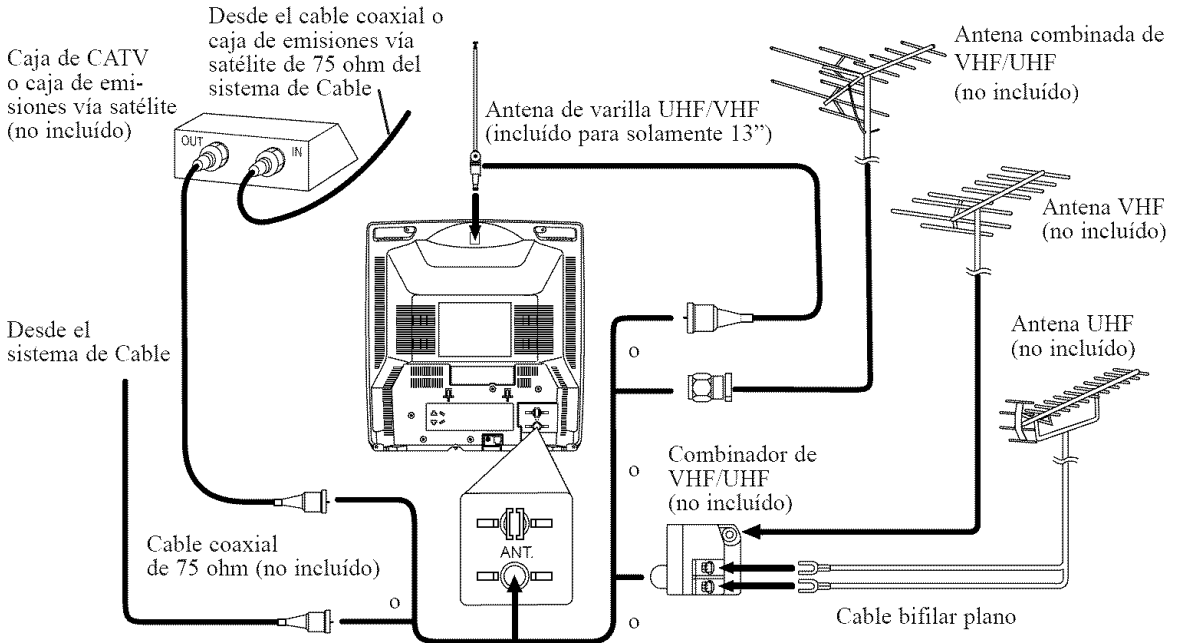
**(19" model) Botón de expulsión (EJECT)**–

Púlselo para expulsar la cinta del televisor/videograbadora.

**27 Terminal de antena (ANT.)**– Para conectar una antena o sistema de televisión por cable.

**28 Cordón de alimentación**– Conéctelo a la toma de CA estándar (120V/60Hz).

## CONEXIONES DE ANTENA/CABLE



## MODO DE ENTRADA EXTERNA

Cuando utilice una señal de entrada externa (otra videograbadora o una videocámara), conecte los cables de salida de audio/vídeo del equipo de reproducción a las tomas AUDIO IN/VIDEO IN de su televisor/videograbadora. Y luego pulse el botón CHANNEL ▲ o ▼ hasta que "AUX" aparezca en la pantalla.

Usted puede programar el temporizador para que explore todos los canales que puedan recibirse en su zona.

## SELECCION DE IDIOMA

### 1 Enchufe el cordón de alimentación del televisor/videograbadora

Enchufe el cordón de alimentación del televisor/videograbadora en una toma de CA estándar.

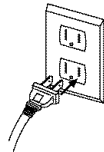
#### NOTA:

- Si aparecen algunas cifras en la esquina de la pantalla, pulse el botón POWER sin desenchufar el cordón de alimentación.

#### Asegúrese de que ...

- Pulse el botón POWER para encender el televisor/videograbadora.

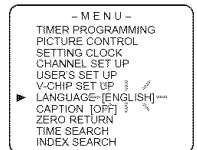
**NOTA:** Esta función afecta sólo el idioma en el menú de la pantalla y no la fuente de audio.



### 2 Seleccione "LANGUAGE"

Pulse el botón MENU en el mando a distancia.

Pulse el botón PLAY/▲ o STOP/▼ para señalar "LANGUAGE".



### 3 Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS"

Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS" con el botón F.FWD/► y pulse el botón REW/◄ en el mando a distancia.

### 4 Salga del modo de idioma

Pulse el botón MENU en el mando a distancia para volver al modo del televisor.

**NOTA:** Si, por alguna razón, el menú está en español o francés, pulse el botón MENU en el mando a distancia, pulse el botón PLAY/▲ para señalar el "IDIOMA (ESPAÑOL)" o "LANGAGE (FRANÇAIS)", a continuación, pulse el botón F.FWD/► y pulse el botón MENU en el mando a distancia.

## AJUSTE DE CANAL

Puede programar el sintonizador para buscar todos los canales que recibe en su localidad.

**NOTA:** El canal preparado NO es necesario cuando esté conectado a una caja de cable o caja de satélite. Sólo tiene que seleccionar con el selector de canal del televisor/videgrabadora al canal de salida de la caja de cable o caja de satélite (por ejemplo el canal CH3). Seleccione el canal a ver en la caja de cable o caja de satélite.

*Asegúrese de que ...*

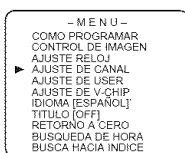
- Pulse el botón POWER para encender el televisor/videgrabadora.

### 1 Seleccione "AJUSTE DE CANAL"

Pulse el botón MENU en el mando a distancia.

Pulse el botón PLAY/▲ o el botón STOP/▼ para señalar "AJUSTE DE CANAL".

A continuación, pulse el botón F.FWD/▶.

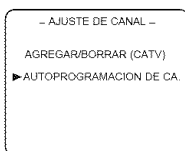


### 2 Empiece el prefijado automático

Pulse el botón PLAY/▲ o STOP/▼ para señalar "AUTOPROGRAMACION DE CA".

A continuación, pulse el botón F.FWD/▶.

El sintonizador busca y memoriza todos los canales activos en su localidad.



### 3 Después de buscar

El sintonizador se detiene en el canal memorizado más bajo.

- Cuando se activa AUTOPROGRAMACION DE CA, donde no hay entrada de señal del televisor, aparecerá "NO HAY SEÑAL DE TV" en la pantalla después de terminar la búsqueda de canales.
- El televisor/videgrabadora puede reconocer los canales de TV para que sean canales de TV de antena de cable con las condiciones de recepción. En este caso, pruebe nuevamente con el prefijado automático en las condiciones de recepción fina.

## AJUSTE DEL RELOJ

*Cerciórese...*

- La alimentación del televisor/videgrabadora deberá estar conectada.

*En el ejemplo de abajo, el reloj va a ajustarse así:*

FECHA: 6 de mayo de 2004

HORA: 5:40 PM

1) Pulse el botón MENU en el mando a distancia.

Pulse el botón PLAY/▲ o STOP/▼ para indicar "AJUSTE RELOJ".

Luego, pulse el botón F.FWD/▶.

2) Pulse el botón PLAY/▲ o STOP/▼ para indicar "AJUSTE MANUAL RELOJ".

Luego, pulse el botón F.FWD/▶.

3) Pulse el botón PLAY/▲ o STOP/▼ hasta que aparezca el mes deseado. (Ejemplo: Mayo - 05)

Luego, pulse el botón F.FWD/▶.

4) Pulse el botón PLAY/▲ o STOP/▼ hasta que aparezca el día del mes deseado. (Ejemplo: 6 - 06)

Luego, pulse el botón F.FWD/▶.

5) Pulse el botón PLAY/▲ o STOP/▼ hasta que aparezca el año deseado. (Ejemplo: 2004)

Luego, pulse el botón F.FWD/▶.

6) Pulse el botón PLAY/▲ o STOP/▼ hasta que aparezca la hora deseada. (Ejemplo: 5, PM)

Luego, pulse el botón F.FWD/▶.

7) Pulse el botón PLAY/▲ o STOP/▼ hasta que aparezca el minuto deseado. (Ejemplo: 40)

8) Pulse el botón MENU en el mando a distancia.

Aunque los segundos no se visualizan, éstos empiezan a contar desde 00 cuando se pulsa MENU en el mando a distancia. Utilice esta función para sincronizar el reloj con la hora correcta.

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