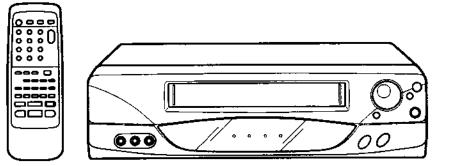
# OWNER'S MANUAL MANUEL D'INSTRUCTIONS ORION

# 4 HEAD HI-FI STEREO VCR MAGNÉTOSCOPE STÉRÉO HI-FI À 4 TÊTES

# V R 5 0 0 6



#### ATTENTION

For your protection in the event of theft or loss of this product, please fill in the information listed below which is for your own personal records. Pour votre protection en cas de vol ou de perte de l'appareit, veuillez inscrire cidessous les renseignements demandés.

Date of Purchase Date d'achat Serial No. Numéro de série Place of Purchase Lieu d'achat

1

#### TV/CATV MODE SELECTION SELECTION DU MODE TV/CATV

When shipped from the factory, the TV/CATV menu option is set to the "CATV" (Cable Television) mode. If not using CATV (Cable TV), set this menu option to the "TV" mode.

Lors de la fabrication, l'option menu TV/CATV est réglée en mode "CATV" (Télévision à câble). Si l'on n'utilise pas le mode CATV (TV à câble), régier cette option menu en mode "TV".

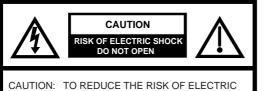


Before operating the unit, please read this manual thoroughly. Avant d'utiliser l'appareil, veuillez lire attentivement ce manuel.

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### ENGLISH



OTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**WARNING:** 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:

- Reorient or relocate the receiving antenna.

2

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by the partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

2

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# **IMPORTANT SAFEGUARDS**

#### 1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2. RETAIN INSTRUCTIONS The safety and operating instructions should be retained for future reference.

#### 3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

#### 4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

#### 5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

#### 6. ATTACHMENTS

Do not use attachments not recommended by the unit's manufacturer as they may cause hazards.

# 7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool. PORTABLE CART WARNING (symbol provided by RETAC)

#### 8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer.

8A. 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.



#### 9. VENTILATION

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

#### **10. POWER SOURCES**

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

#### 11. GROUNDING OR POLARIZATION

This unit 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 If your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin, this plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.

Do not defeat the safety purpose of the grounding-type plug.

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ENGLISI



# **IMPORTANT SAFEGUARDS**

#### 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.

#### 13. LIGHTNING

To protect your unit from 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 unit due to lightning and power line surges.

#### 14. 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.

#### 15. OVERLOADING

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

#### 16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

#### 17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 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.

#### 18. SERVICING

Do not attempt to service this unit 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 unit 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.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.
- f. When the unit 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 uses replacement parts specified by the manufacturer or those that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

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#### 21. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

#### 22. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

#### 23. HEAT

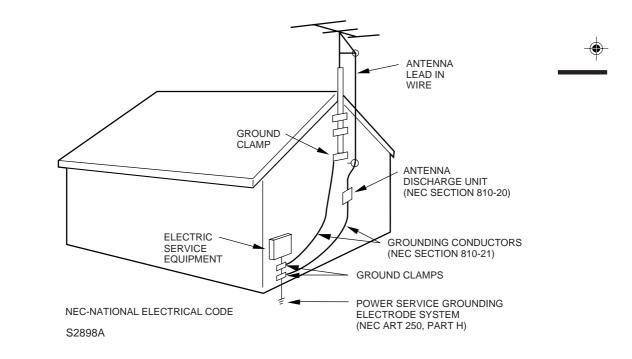
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

#### 24. 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.

# ENGLISH

# EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



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**High Quality Picture Technology -** This video cassette recorder marked "HQ" incorporates VHS high quality technology. A built-in detail enhancer is used to boost the recorded signal and provide maximum picture quality in playback. It is compatible with other VHS video cassette recorders.

4 Video Heads - Provides optimal picture quality for special effects playback.

**Hi-Fi Stereo Sound -** With a frequency response of 20 to 20,000 Hz and a dynamic range of better than 85dB, this VCR provides a level of excellence that rivals compact discs.

8-Program/1-Month Programmable Timer with Everyday/Every Week Capability - The built-in timer allows automatic absentee recording of up to 8 TV programs within 1month. It is also possible to record a program which is broadcast at the same time everyday or every week.

**On-Screen Display and Programming -** When you select a channel or make other changes, the TV will show an indicator on the screen for a few seconds. Clock settings, timer setting and other set-up operations can be carried out using the on-screen display menu system.

Digital Auto Tracking - Automatically adjusts tracking during playback for the best possible picture.

181 Channel Tuner - Receives standard VHF and UHF broadcast channels and up to 113 cable channels.

**One-Touch Timer Recording (OTR) -** Simply by pressing the REC/OTR button, the VCR can be programmed for up to 5 hours of recording with an immediate start.

Automatic Power On - When loading a cassette tape, this VCR will automatically turn on.

Automatic Playback - When loading a cassette tape without the erase prevention tab, this VCR will automatically turn on and play back the cassette tape at the correct speed.

Automatic Rewind-Stop-Eject-Power Off - When a tape reaches its end during playback and recording, it will automatically stop, rewind, stop, eject the tape and the VCR will turn off.

Automatic Repeat Play System - When the AUTO REPEAT option is turned on, this VCR will automatically play back the same cassette tape repeatedly.

**On-Screen 3 Language Display -** You can select one of 3 languages; English, Spanish or French, for onscreen programming.

Variable Speed Slow Motion - This VCR provides Variable speed slow motion which offers steady, noise free playback at 1/5-1/30 normal speed.

Frame by Frame Advance - Press the SLOW button during still playback to advance the tape one frame at a time.

**Skip Search -** When the SKIP SEARCH button is pressed during playback, the VCR will automatically search forward in 30 second increments to a maximum of 3 minutes with each press of the SKIP SEARCH button, and then return to normal playback.

**Real Time Tape Counter with Zero Return -** The counter displays real tape time and the zero return function can be used to return the tape to a preselected position (00:00:00) while the counter can be used to locate programs.

**TV Monitor -** When the TV MONI. (Monitor) button on the remote control is pressed during playback, the TV channel selected on the VCR can be viewed.

Channel Skip - An unwanted channel can be deleted when using the CHANNEL ▲ or ▼ button.

2 Speed Picture Search - 3 or 5 times normal speed in SP mode (7X or 9X in LP and 9X or 15X in SLP).

3 Speed Record/Playback - Records and plays three tape speeds (SP, LP, SLP).

Stereo/SAP Reception - This VCR is designed to receive stereo and separate audio program (SAP) broadcasts where available.

Video Index Search System - Locates the beginning of any recording made on the VCR.

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Front Audio/Video In Jacks - A VCR or other video device may be hooked up for dubbing.

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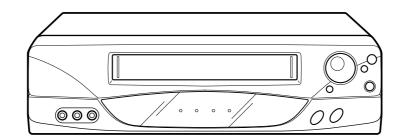
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# TABLE OF CONTENTS

We recommend that you carefully read the descriptions and operating procedures contained in this Owner's Manual prior to operating your new VCR.





PRECAUTIONS	
LOCATION OF CONTROLS	•
REMOTE CONTROL	
BASIC CONNECTIONS	
CATV (CABLE TV) CONNECTIONS	
AUDIO/VIDEO CONNECTIONS	
SETTING THE VIDEO CHANNEL	
ON-SCREEN LANGUAGE SELECTION	
SETTING THE CLOCK	
SETTING THE CHANNELS	
NOISE ELIMINATION (BLUE SCREEN)	
PLAYBACK	
LOADING AND UNLOADING VIDEO CASSETTE TAPES	
PLAYBACK	
SPECIAL PLAYBACK	
RECORDING	
RECORDING A TV PROGRAM	36
ONE-TOUCH TIMER RECORDING (OTR)	
SETTING THE TIMER RECORDING	
ADDITIONAL INFORMATION	
ON-SCREEN FUNCTION DISPLAY	A:
USING ZERO RETURN	
VIDEO INDEX SEARCH SYSTEM (INDEX)	
STEREO RECORDING AND PLAYBACK	
SEPARATE AUDIO PROGRAM (SAP)	
DUPLICATING A VIDEO TAPE	
VIDEO HEAD CLEANING	
BEFORE REQUESTING SERVICE	
SPECIFICATIONS	
LIMITED WARRANTY	

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4C94001A/E/COV-09

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#### **MOISTURE CONDENSATION**

DO NOT OPERATE THIS VCR FOR AT LEAST TWO OR THREE HOURS WHEN MOISTURE IN THE AIR CONDENSES ON THE VCR.

#### WHAT IS MOISTURE CONDENSATION?

When a cold liquid is poured into a glass, for example, water vapor in the air will condense on the surface of the glass. This is called moisture condensation.

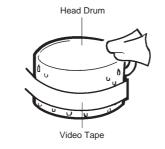
#### MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;

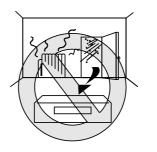
- When you move this VCR from a cold to a warm place.
- After heating a cold room or under extremely humid conditions.

#### WHEN YOU EXPERIENCE THE ABOVE CONDITIONS,

Plug the power cord into an AC outlet, press the POWER button to turn on and leave the unit at room temperature until moisture condensation disappears.

Depending on the surrounding conditions, this may take two or three hours.





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If you cause a static discharge when touching the VCR, and the VCR fails to function, simply unplug the unit from the wall outlet, wait a few minutes and plug it back in. The VCR should return to normal operation.

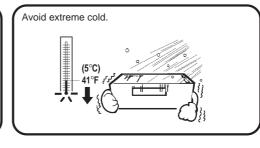


Do not place the VCR on or near appliances which

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may cause electromagnetic interference, e.g. TV, speakers, etc. Doing so may cause erratic operation of the VCR including picture and/or sound distortion

Avoid extreme heat.

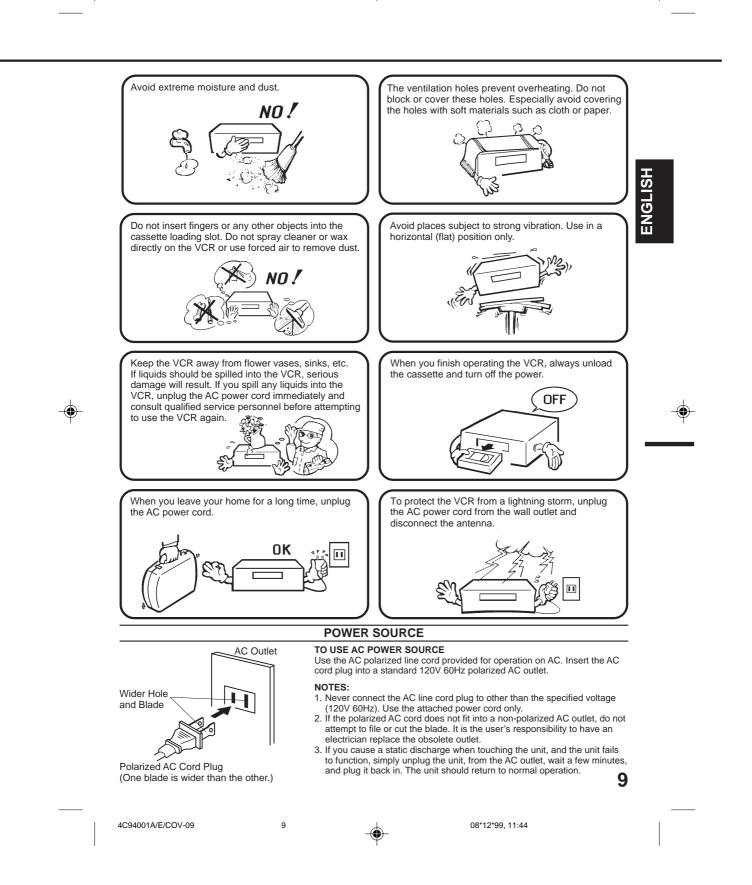


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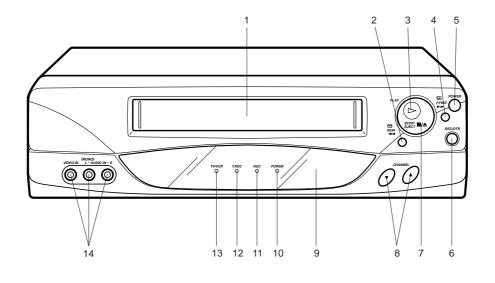
or noise.





# LOCATION OF CONTROLS

#### FRONT



#### **DESCRIPTION OF CONTROLS**

- 1. Cassette Loading Slot To insert or remove a video tape.
- REW button In the STOP mode, this button rapidly winds the tape backwards. In the PLAY mode, this button activates Reverse Search.
- 3. PLAY button Press to play a prerecorded tape.
- F. FWD button In the STOP mode, this button rapidly winds the tape forward. In the PLAY mode, this button activates Forward Search.
- 5. POWER button Turns the VCR power on and off.
- 6. REC/OTR button Press once to start normal recording. Additional presses activate One-Touch Recording.
- 7. STOP/EJECT button Press once to stop the tape in any mode. Press again to eject the tape.

- 8. CHANNEL ▼ / ▲ buttons Used to select a channel for viewing or recording.
- 9. Remote Sensor Signals from the Remote Control are received here.
- **10. POWER indicator -** Lights when the power is turned on.
- 11. REC indicator Lights during recording.
- **12. T. REC indicator** Lights when the TIMER REC button is pressed.
- **13. TV/VCR indicator -** Lights when the TV/VCR selector button is selected to the VCR mode.
- AUDIO (L/R)/VIDEO In Jacks Audio and video signal cables from an external source can be connected here.

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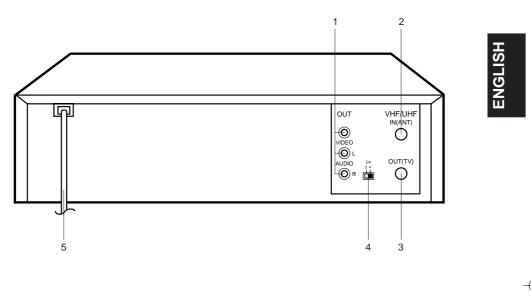
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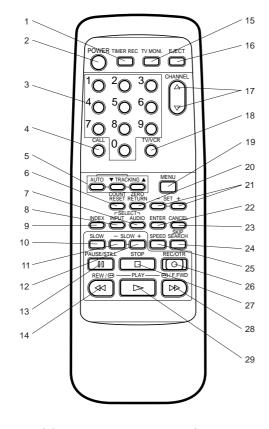
#### **DESCRIPTION OF CONNECTORS**

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- 1. AUDIO (L/R)/VIDEO OUT Jacks Used to output audio and video signals to a TV, amplifier or VCR.
- 2. VHF/UHF IN (ANT) Jack Connect a VHF/UHF antenna or CATV cable to this jack.
- 3. VHF/UHF OUT (TV) Jack Used to output VHF/ UHF or CATV signals to a TV.
- 4. 3/4 Channel Selector Switch Selects the channel through which the VCR outputs its signal to a TV.
- 5. AC Power Cord Connect to a 120V 60Hz outlet.

11

# **REMOTE CONTROL**



#### **DESCRIPTION OF BUTTONS**

- 1. TIMER REC button Used to set the VCR to start recording at a preset time.
- 2. POWER button Turns the VCR power on and off.
- Direct Channel Selection buttons (0-9) Allow direct access to any channel.
- CALL button Displays the present time/day of the week, channel, counter, speed selection and VCR mode on the TV screen.
- AUTO/Manual TRACKING buttons Allows automatic or manual adjustment of tracking to minimize picture noise during playback.
- 6. COUNT RESET button Resets the Real Time Counter to 00:00:00.
- AUDIO SELECT button Switches sound between mono and stereo, and SAP when receiving broadcasts in stereo or SAP.

- 8. INPUT SELECT button Switches the program for viewing between the VCR and external input sources.
- 9. INDEX button Used to search for the INDEX mark.
- SLOW button Press to play back a tape in slow motion or to advance the tape one frame at a time during still playback.
- SLOW button Press to speed down slow motion playback until it is 1/30 of normal speed playback.
- SLOW + button Press to speed up slow motion playback until it is 1/5 of normal speed playback.
- 13. PAUSE/STILL button During recording, this button temporarily stops the tape. The " ● II " will appear on the screen. During playback, it stops the tape and displays a still image on the TV screen.
- 14. REW button In the STOP mode, this button rapidly winds the tape backwards. In the PLAY mode, this button activates Reverse Search.
- TV MONI. (Monitor) button Used to temporarily view a TV channel selected on the VCR while in the playback mode.
- 16. EJECT button Press to eject the tape.
- CHANNEL ▲ / ▼ buttons Used to select a channel for viewing or recording.
- TV/VCR selector button Switches between TV and VCR.
- **19. MENU button -** Press to display the on-screen menu function.
- **20. ZERO RETURN button -** Used to stop the tape when the counter reaches 00:00:00.
- 21. SET +/- buttons Used to set or adjust in the menu mode.
- **22. ENTER button -** Used to enter the information in the menu mode.
- CANCEL button Used to clear the selected timer recording program.
- 24. SKIP SEARCH button Press in the playback mode to search forward in 30 second increments to a maximum of 3 minutes.
- 25. SPEED (SP/LP/SLP) selector button Sets the tape speed for recording.
- REC/OTR button Press once to start normal recording. Additional presses activate One-touch Timer Recording.
- 27. STOP button Press once to stop the tape.
- F. FWD button In the STOP mode, this button rapidly winds the tape forward. In the PLAY mode, this button activates Forward Search.
- 29. PLAY button Press to play a prerecorded tape.

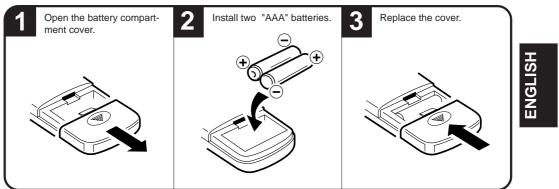
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#### **BATTERY INSTALLATION**



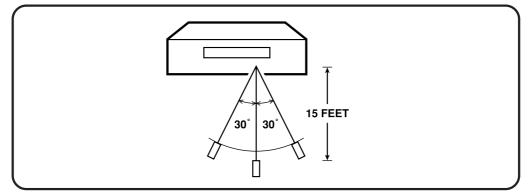
#### **BATTERY CAUTIONS**

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Follow these precautions when using batteries in this device:

- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

#### EFFECTIVE DISTANCE OF THE REMOTE CONTROL



**NOTES:** • When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the Remote Sensor, the remote operation may be unstable.

• When there is an obstacle between the VCR and the remote control, the remote control may not operate.

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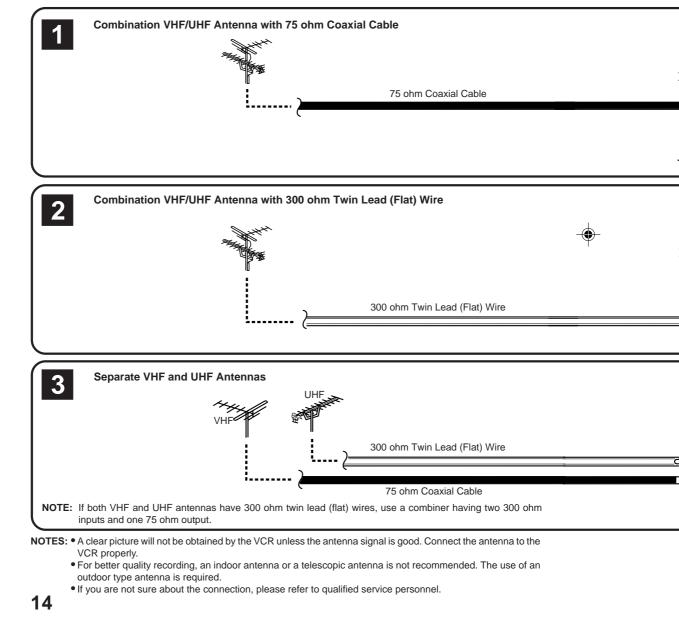


# **BASIC CONNECTIONS**

If you are using an antenna system, follow the instructions on pages 14-17. If you are a cable (CATV) subscriber, skip ahead to page 18 for the proper connections.

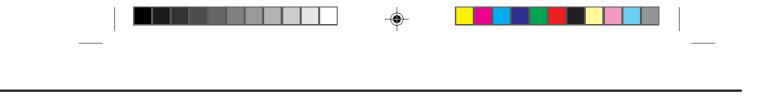
#### ANTENNA TO VCR CONNECTION

The VCR must be connected "between" the antenna and the TV. First, disconnect the antenna from the TV and connect it to the VCR. Then connect the VCR to the TV. Below are 3 common methods of connecting an antenna system to a VCR. Find the type of antenna system you are using and follow the connection diagram. After you have connected the antenna to the VCR, follow the instructions on pages 16-17 to connect the VCR to the TV.

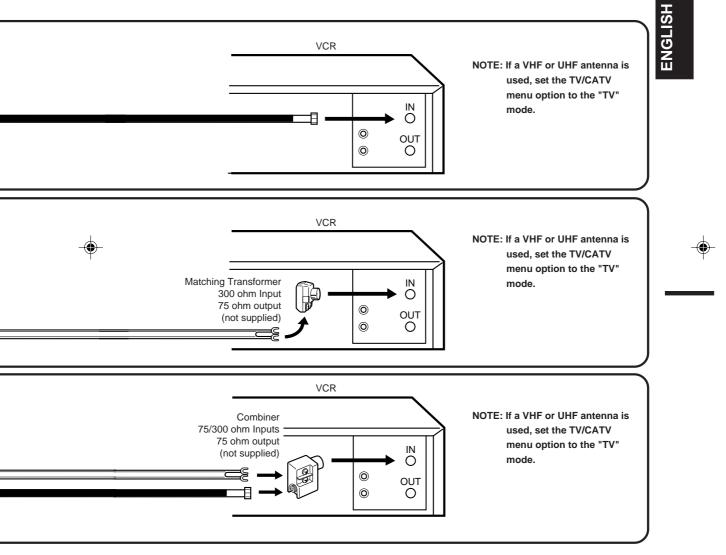


4C94001A/E/P10-19

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This VCR has a single 75 ohm antenna input for connection to an antenna (VHF/UHF) or cable (CATV) system. If you have separate VHF and UHF antennas (number 3 below), use a combiner to connect the antennas to the VCR.

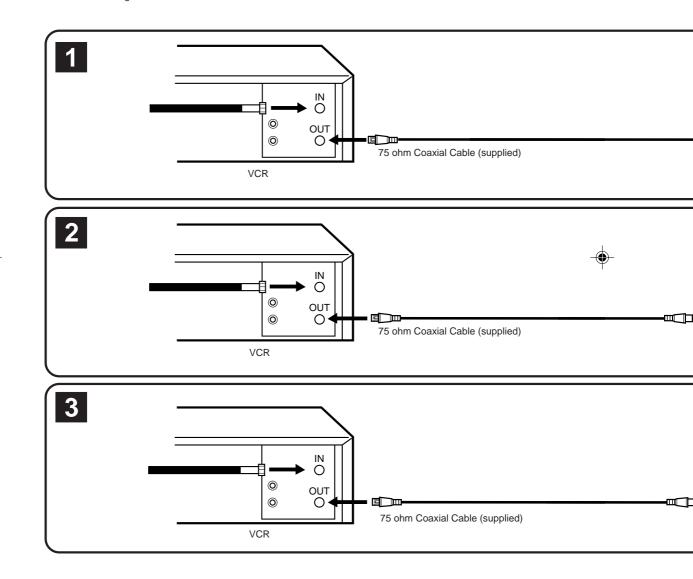


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#### VCR TO TV CONNECTION

After you have connected the antenna to the VCR (see pages 14 & 15), you must connect the VCR to the TV. Below are 3 common methods of connecting your VCR to a TV. Find the type of TV you are using and follow the connection diagram.



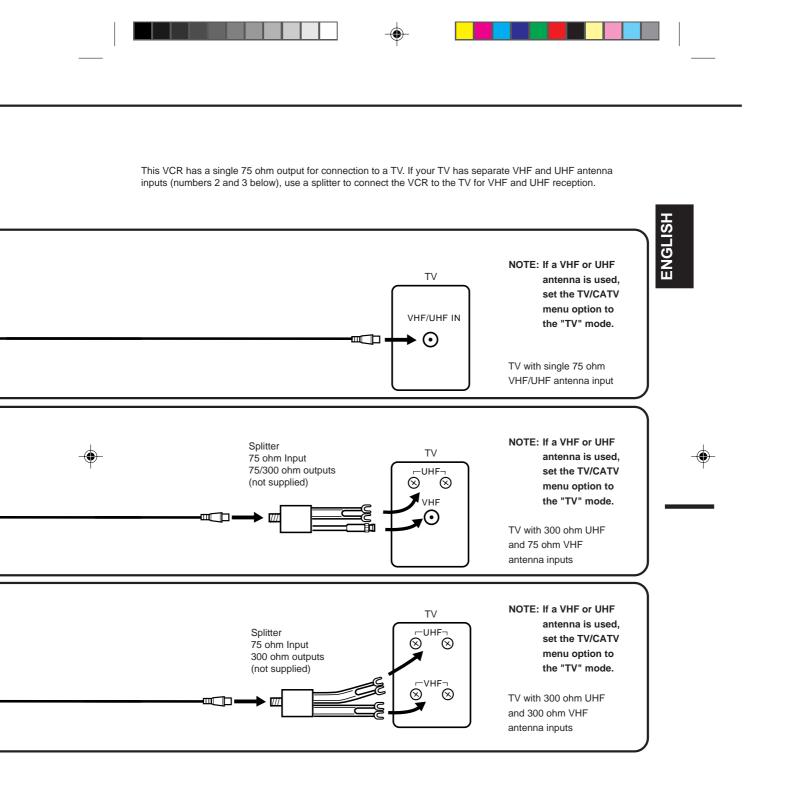
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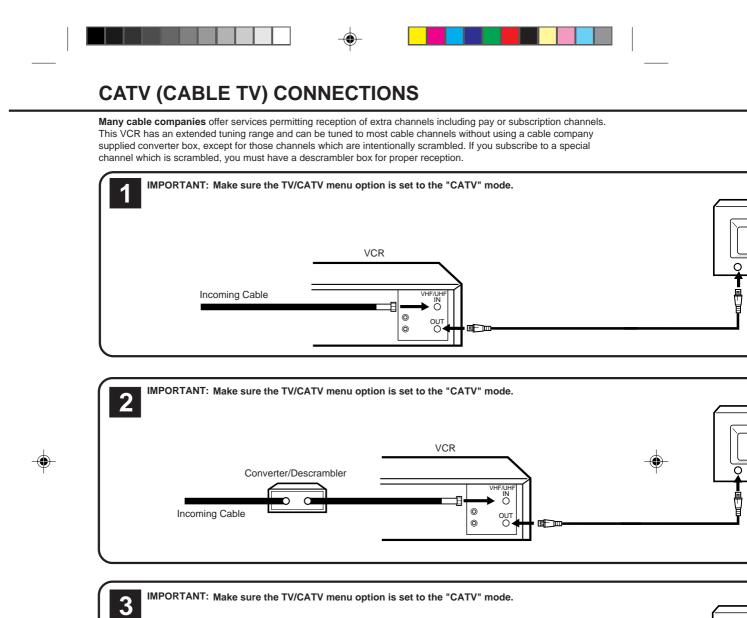


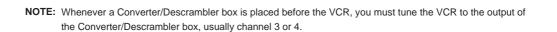
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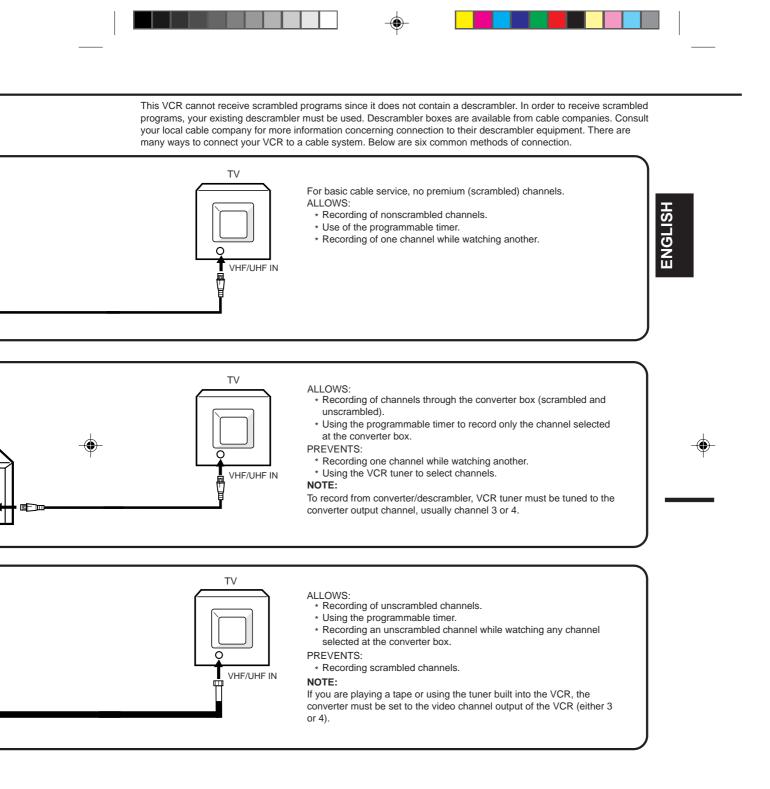
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18

Incoming Cable

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Converter/Descrambler

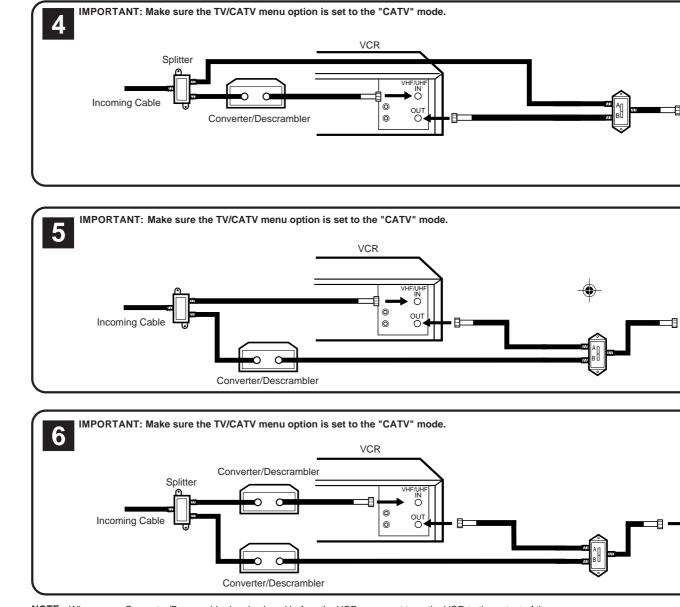


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# CATV (CABLE TV) CONNECTIONS

(CONTINUED)



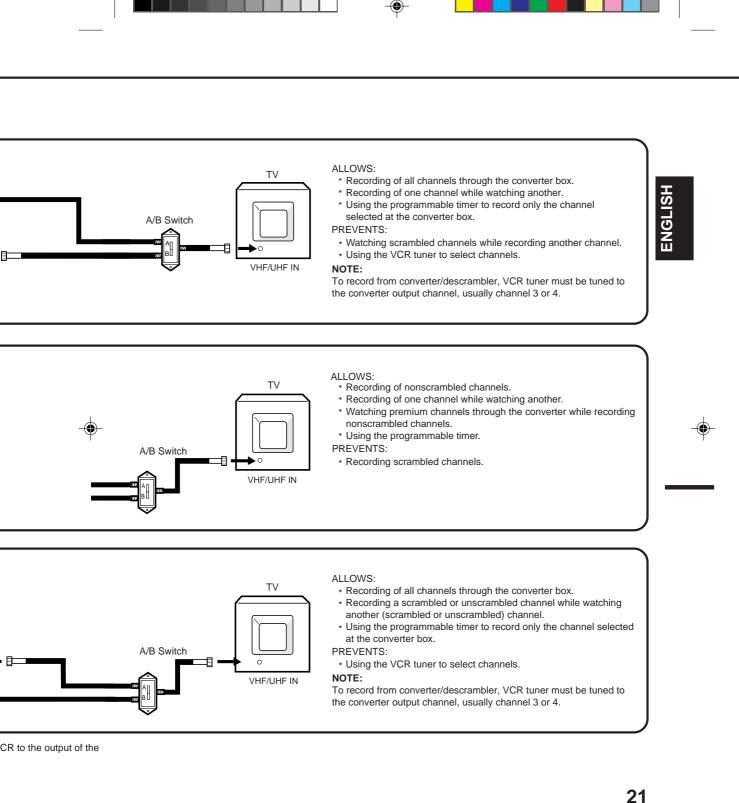
**NOTE:** Whenever a Converter/Descrambler box is placed before the VCR, you must tune the VCR to the output of the Converter/Descrambler box, usually channel 3 or 4.

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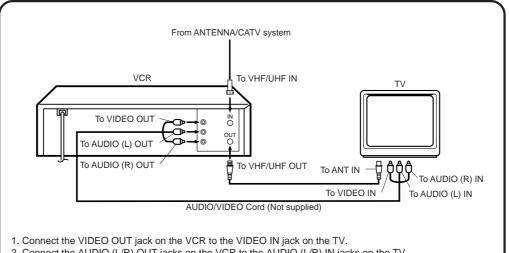
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# **AUDIO/VIDEO CONNECTIONS**

If your TV has AUDIO IN and VIDEO IN jacks, you can connect your VCR to them to receive a higher quality picture and sound. If you have a stereo, you can connect a stereo amplifier to enjoy powerful sound.

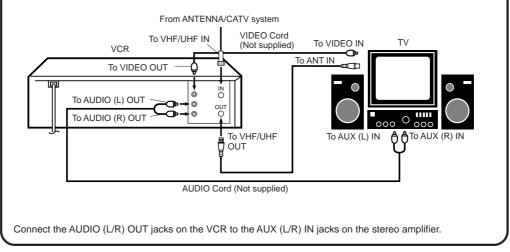
#### **AUDIO/VIDEO CONNECTION**



- 2. Connect the AUDIO (L/R) OUT jacks on the VCR to the AUDIO (L/R) IN jacks on the TV.
- 3. Set the VIDEO/TV selector of your TV to "VIDEO".

#### **STEREO AMPLIFIER CONNECTIONS**

When you connect your VCR to a Stereo Component System, you can view the picture from the VCR while enjoying powerful sound from your audio system.



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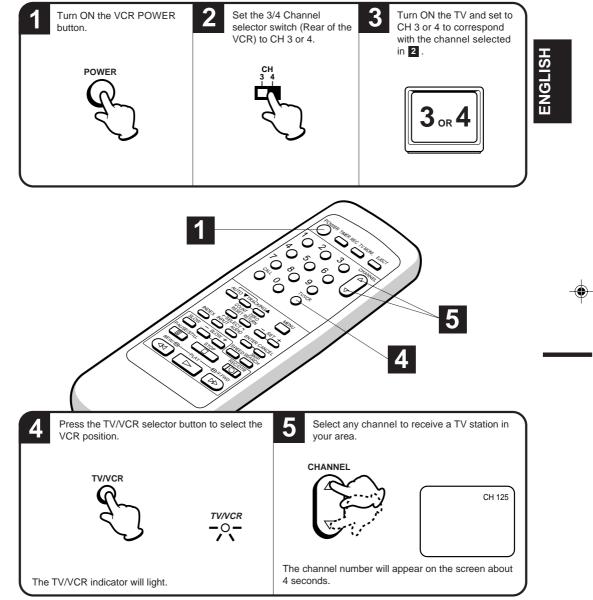
22



# SETTING THE VIDEO CHANNEL

To view playback of a recorded tape, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).

When a TV is connected with the 75 ohm coaxial cable only.



#### For a push-button TV tuner

If CH 3 or 4 corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH 3 or 4, play back a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner's manual for details.

23

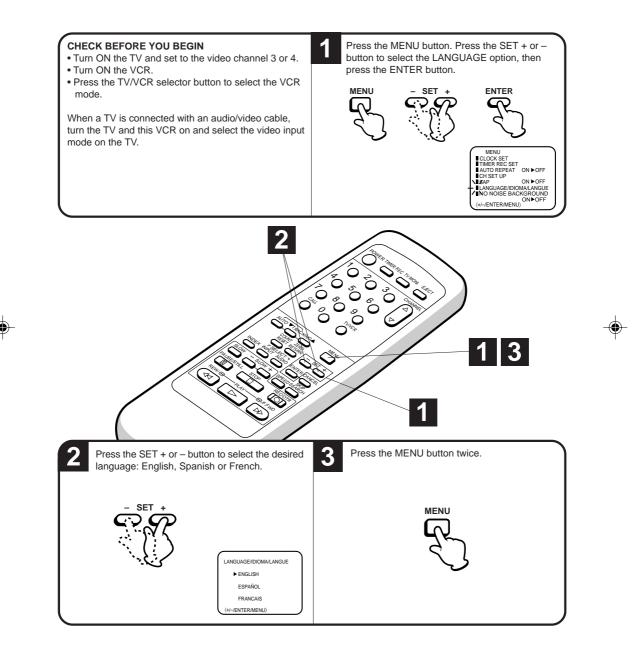
4C94001A/E/P20-29

23



# **ON-SCREEN LANGUAGE SELECTION**

This VCR can display on the TV screen in the English, Spanish or French languages.



# 24

4C94001A/E/P20-29

24

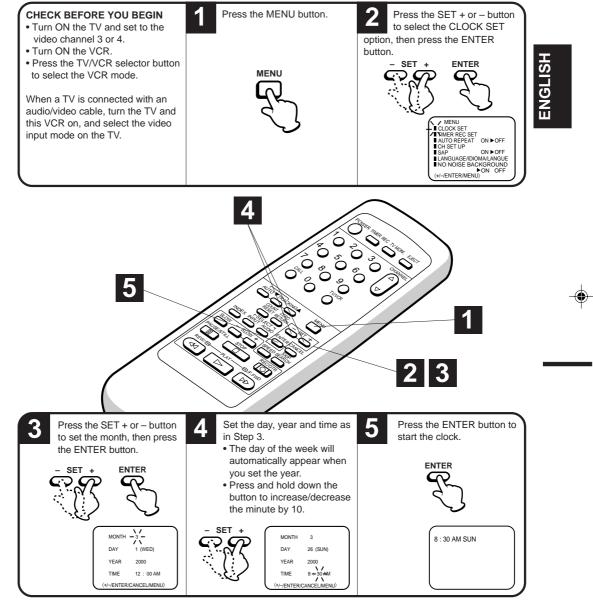
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# SETTING THE CLOCK

You must set the date and time manually for timer recordings.

EXAMPLE: Setting the clock to "8:30 AM" March, 26 (SUN), 2000.



**NOTES:** • After a power failure or disconnection of the power, the timer settings will be lost. In this case, reset the present time.

• Press the CANCEL button to move cursor backward for correction.

25

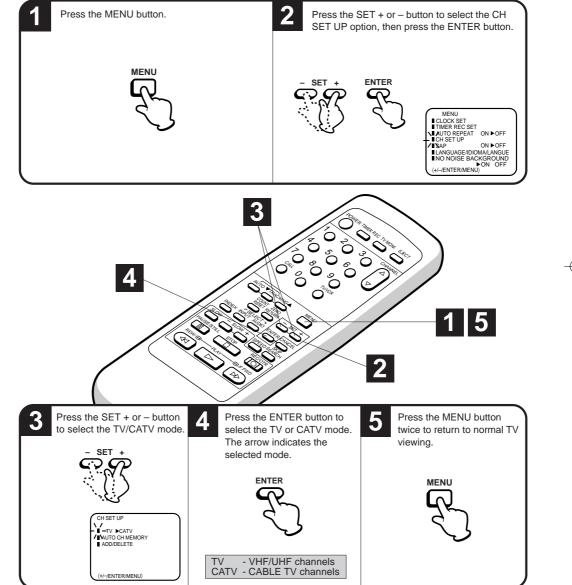
4C94001A/E/P20-29



# SETTING THE CHANNELS

This VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the VCR's memory. In addition to normal VHF and UHF channels, this VCR can receive up to 113 Cable TV channels. To use this VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.

# TV/CATV SELECTION



26

4C94001A/E/P20-29

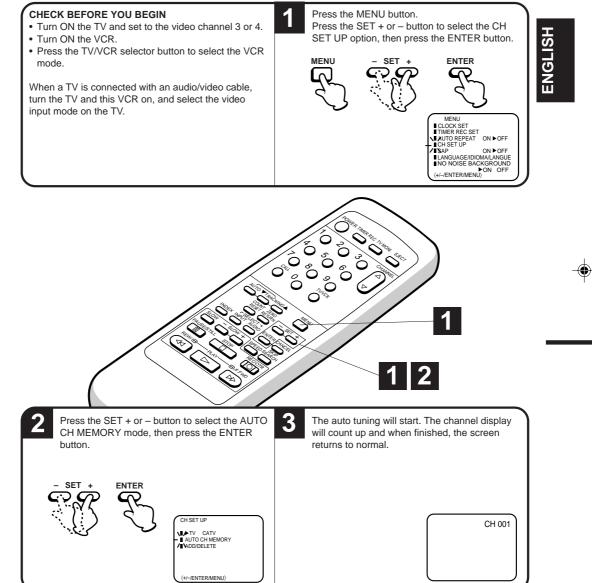
26

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The VCR can receive a maximum of 181 channels by presetting the channels into memory.

#### AUTOMATIC MEMORY TUNING



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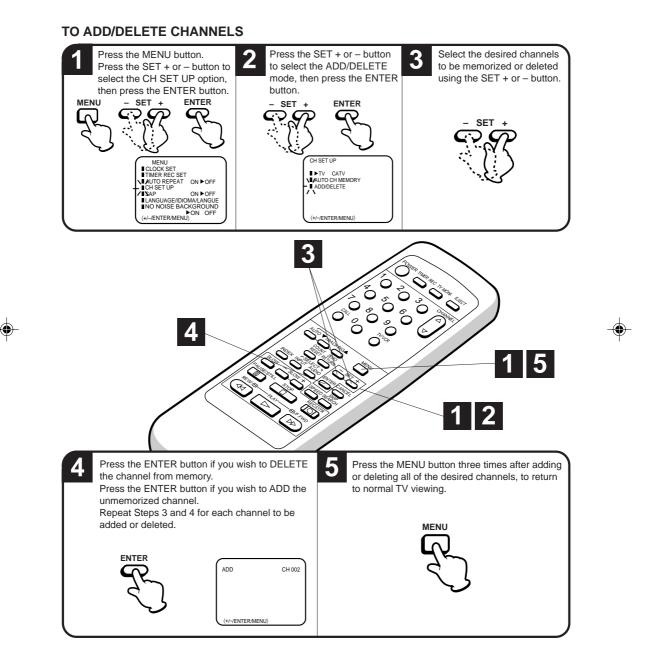
27

4C94001A/E/P20-29



# SETTING THE CHANNELS

#### (CONTINUED)

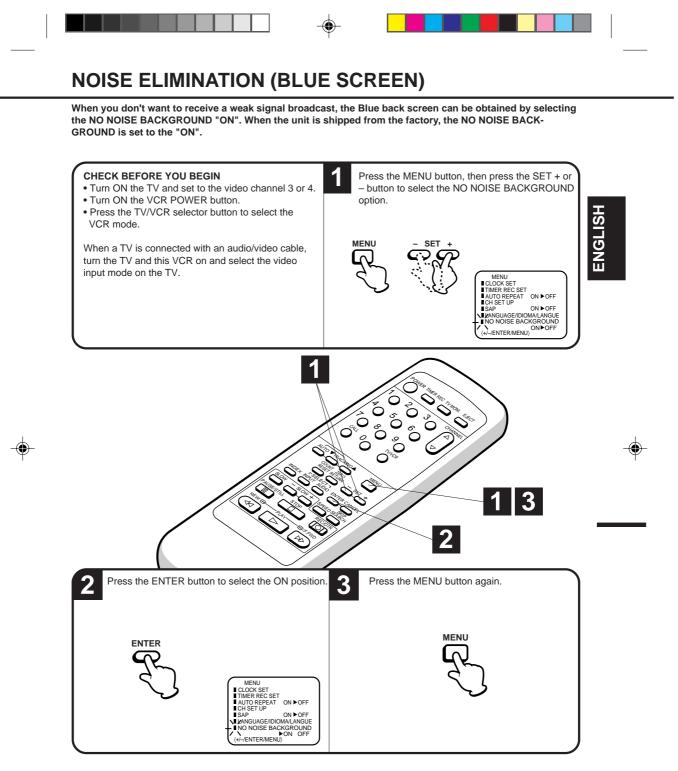


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4C94001A/E/P20-29

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4C94001A/E/P20-29

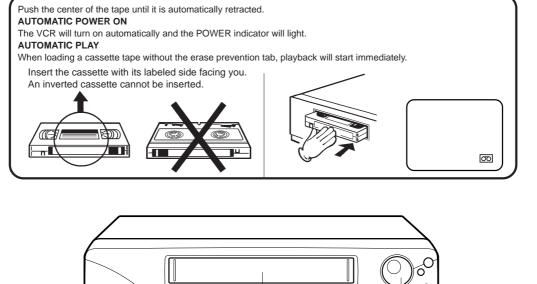
29

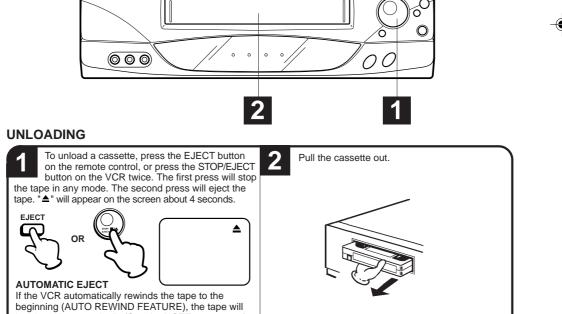


# LOADING AND UNLOADING VIDEO CASSETTE TAPES

Use only video cassette tapes marked  $\overline{VHS}$ .

#### LOADING





NOTES: • Always eject the tape when not in use.

be ejected automatically (See the NOTE on page 37).

• The cassette can be ejected even if the VCR is turn off.

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# 30

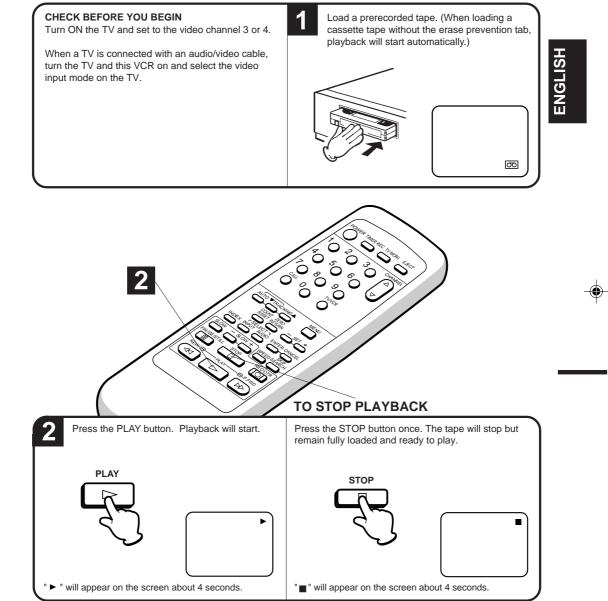
4C94001A/E/P30-37



# PLAYBACK

To play a prerecorded cassette tape.

#### TO START PLAYBACK



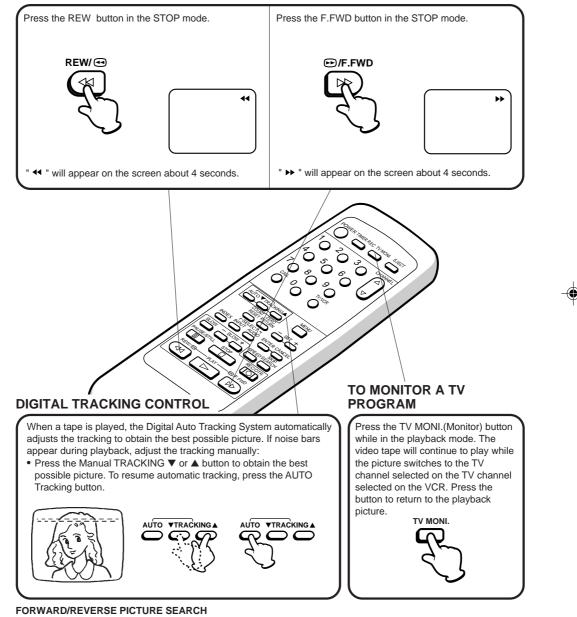
31

4C94001A/E/P30-37

31



#### TO REWIND OR FORWARD THE TAPE RAPIDLY



If you want to see the tape program during REW or F.FWD mode, press and hold the REW or F.FWD button again. The backward or forward visual search picture will be seen on the screen. Release the button to return to the REW or F.FWD mode.



4C94001A/E/P30-37

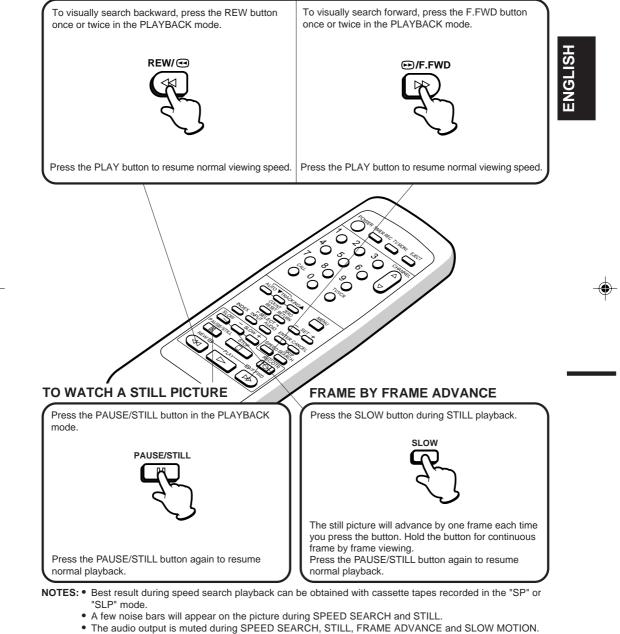
32



# SPECIAL PLAYBACK

#### TO VISUALLY SEARCH FOR DESIRED POINTS

When either the F.FWD or REW button is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed twice, the search picture will increase speed. Speed search time depends upon the speed used (SP, LP or SLP) during recording. To rewind or fast forward a tape, press the STOP button, and then press the REW or F.FWD button.



The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
To prevent damage to the tape, special playback is automatically changed to the PLAYBACK mode after 5 minutes.

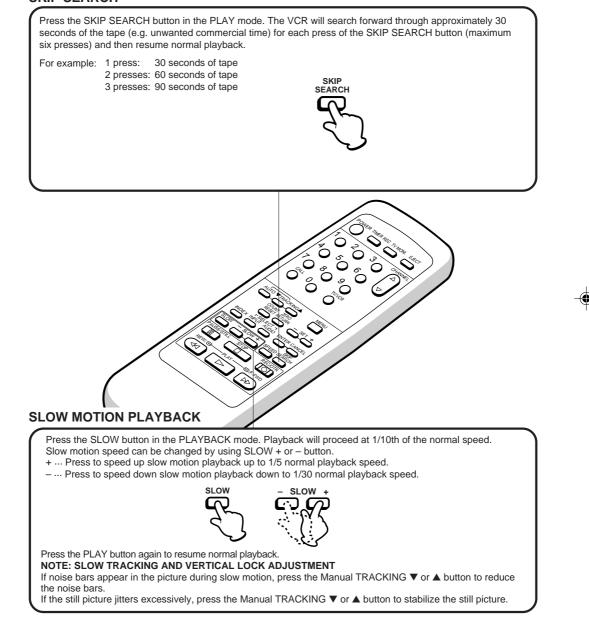
4C94001A/E/P30-37

33

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#### **SKIP SEARCH**

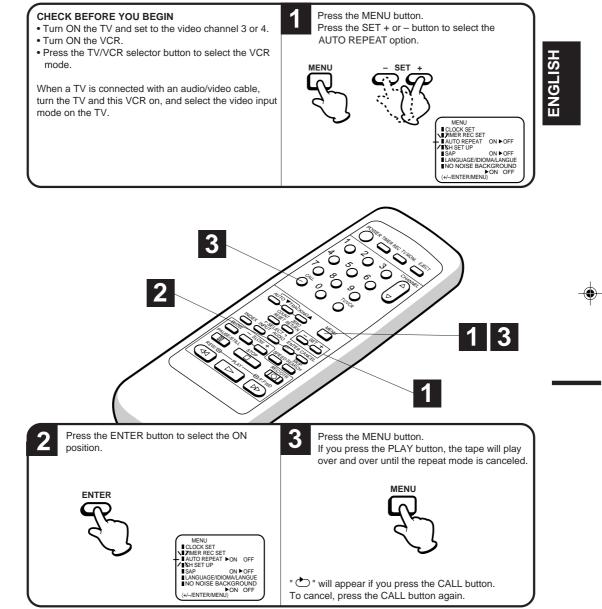


## 34

4C94001A/E/P30-37



#### TO WATCH A TAPE REPEATEDLY



**NOTE:** To cancel repeat mode, follow the above steps 1 and 2, then press the ENTER button to select the OFF position. Press the MENU button to return to the TV.

35

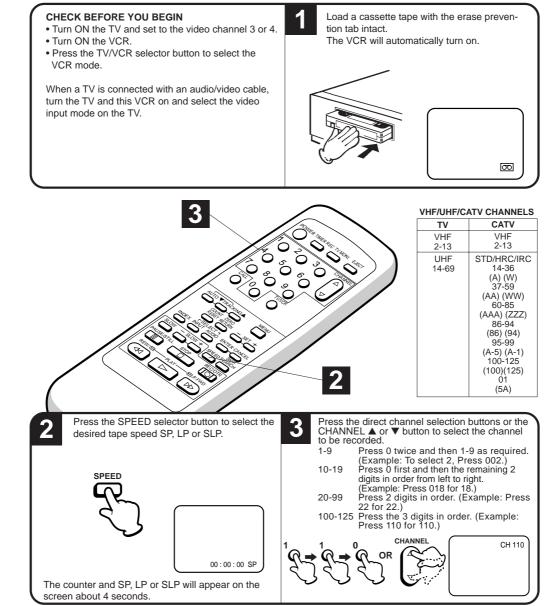
4C94001A/E/P30-37

35



# **RECORDING A TV PROGRAM**

#### **RECORDING AND VIEWING THE SAME TV PROGRAM**



**NOTE:** Since the VCR has its own TV tuner, it is not actually necessary to have the TV turned on in order to make a recording. Turning on the TV merely allows confirmation of the proper channel settings on your VCR.

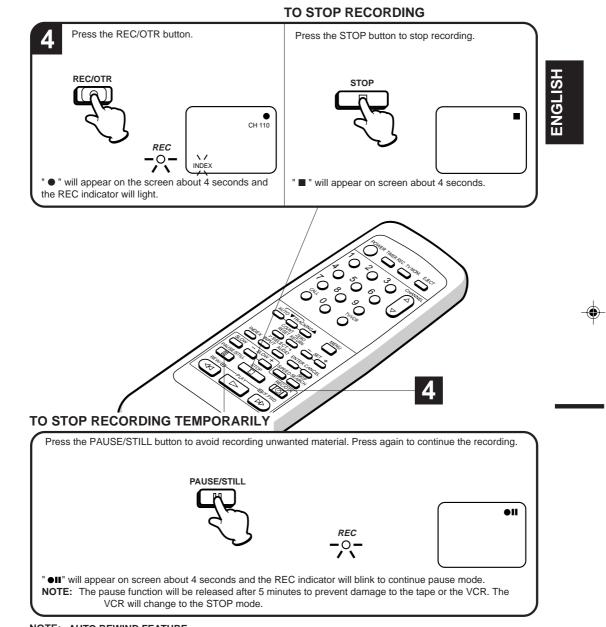
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### 36

4C94001A/E/P30-37

36





NOTE: AUTO REWIND FEATURE

This VCR will automatically rewind the tape when the tape has ended (except during OTR and TIMER REC). It will also eject the tape and turn the VCR's power OFF.

37

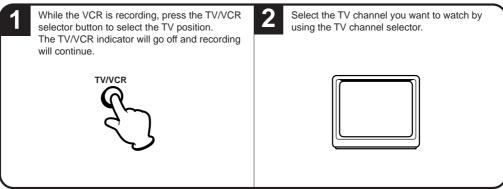
4C94001A/E/P30-37

37



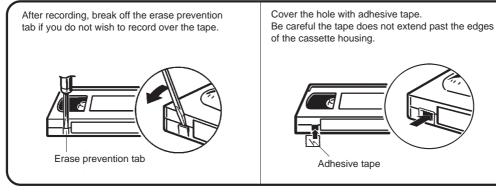
(CONTINUED)

### **RECORDING ONE PROGRAM WHILE WATCHING ANOTHER**



NOTE: Some CATV hookups do not permit viewing one channel while recording another. See pages 18-21.

#### TO PREVENT AN ACCIDENTAL RECORDING **TO RECORD AGAIN**



### TAPE SPEED AND MAXIMUM RECORDING/PLAYBACK TIME

TAPE SPEED	VIDEO CASSETTE TAPE							
	T-210	T-160	T-120	T-90	T-60	T-30		
SP (Standard Play)	3-1/2 hours	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes		
LP (Long Play)	7 hours	5-1/3 hours	4 hours	3 hours	2 hours	1 hour		
SLP (Super Long Play)	10-1/2 hours	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours		

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### 38

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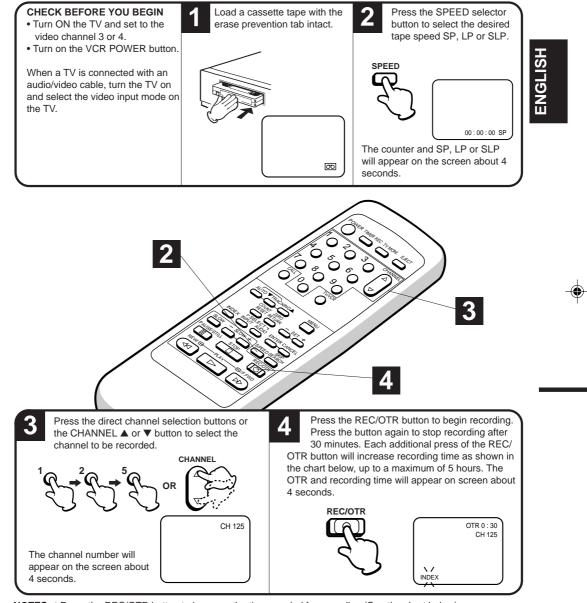
4C94001A/E/P38-43



# **ONE-TOUCH TIMER RECORDING (OTR)**

The one-touch timer recording feature provides a simple and convenient way to make a timed recording.

EXAMPLE: One-touch timer recording for 30 minutes.



NOTES: • Press the REC/OTR button to increase the time needed for recording (See the chart below).

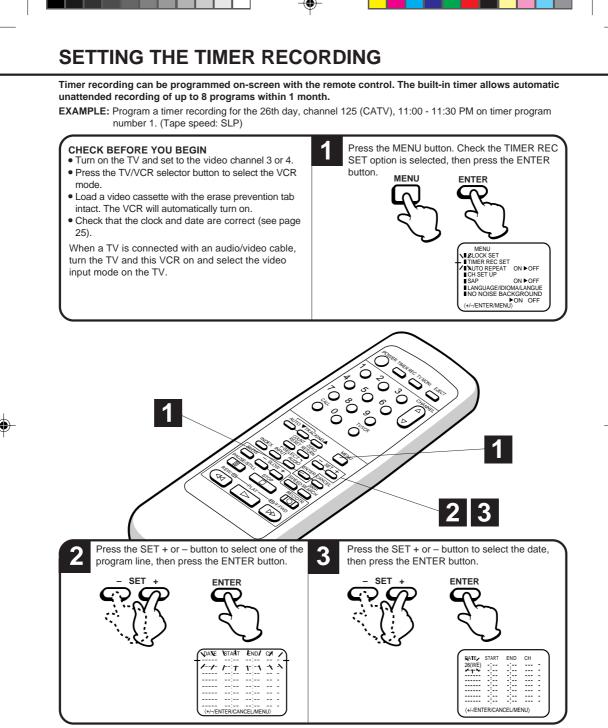
Press	once	twice	3 times	4 times	5 times	6 times	7 times	8 times	9 times
Recording time	NORMAL REC	0:30	1:00	1:30	2:00	3:00	4:00	5:00	NORMAL REC
• To cancel OTP, prose the STOP button or turn off the nower									

To cancel OTR, press the STOP button or turn off the power.

39

4C94001A/E/P38-43

39



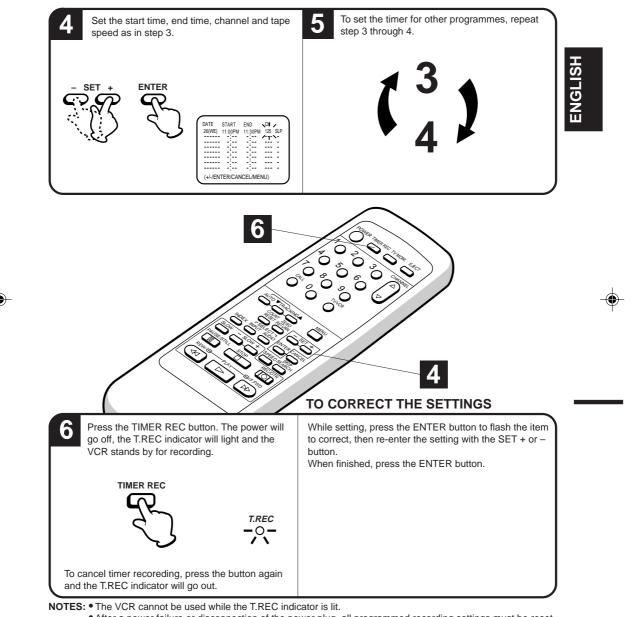
NOTE: To record from external source set the channel to "L". "L" will appear next to CH 125 (or 69).

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 After a power failure or disconnection of the power plug, all programmed recording settings must be reset upon resumption of power. In this case, reset the clock (see page 25) and reprogram any timer recordings.
Press the CANCEL button to move cursor backward for correction.

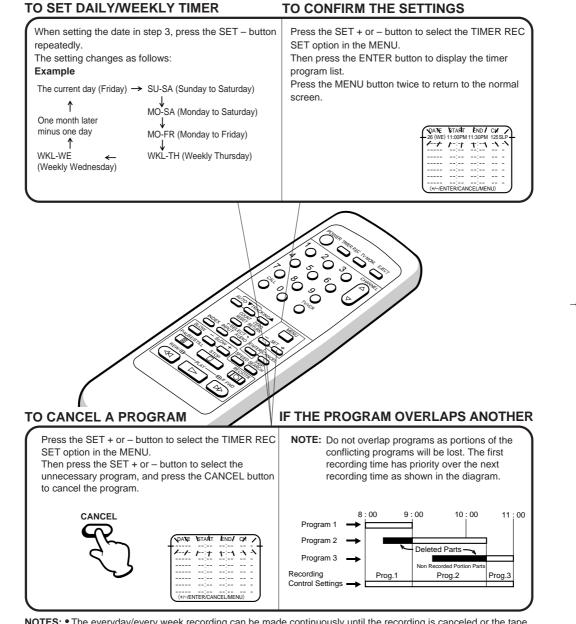
• FIESS THE CANCEL BUTTON TO THOSe CUISOF BACKWARD TO COTTECTION

41

4C94001A/E/P38-43

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# SETTING THE TIMER RECORDING



**NOTES:** • The everyday/every week recording can be made continuously until the recording is canceled or the tape reaches the end.

• During timer recording, the automatic rewinding mechanism does not function.

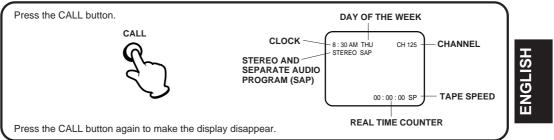
# 42

4C94001A/E/P38-43



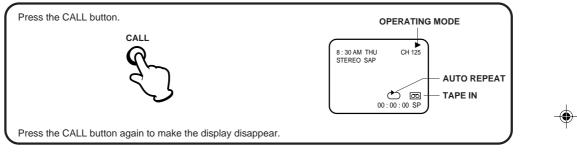
# **ON-SCREEN FUNCTION DISPLAY**

### WHILE WATCHING TV

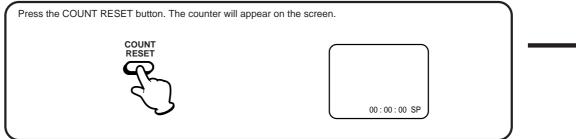


### WHILE OPERATING A TAPE

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### TO SET THE COUNTER TO '00:00:00'



NOTES: • If you rewind the tape from "00:00:00", a minus sign ("-") will be displayed in front of the time.

• When you load a tape, the counter will change to "00:00:00".

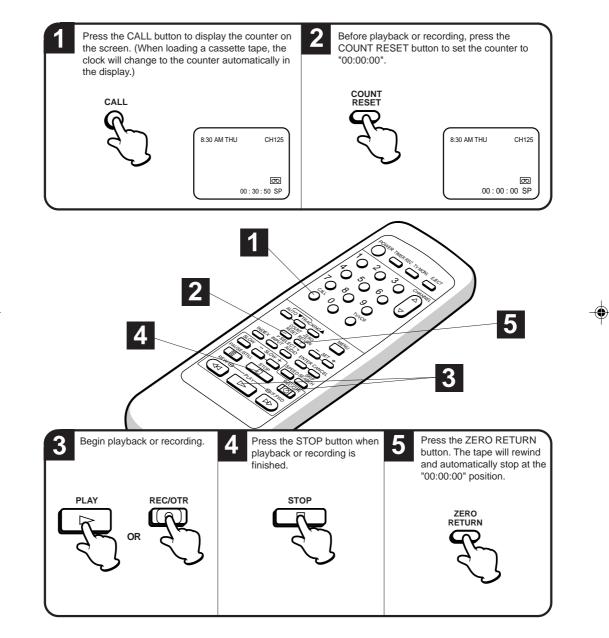
• The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

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# **USING ZERO RETURN**

The zero return function provides a convenient method of rapidly returning to the starting point of recording or playback. The starting point can be indexed for any location on the tape by pressing the COUNT RESET button and ZERO RETURN button.

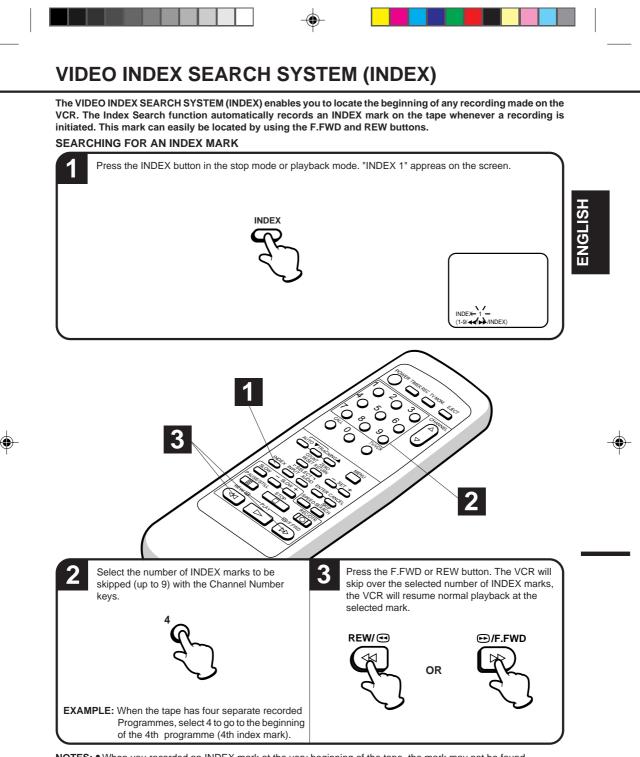


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## 44

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4C94001A/E/P44-49

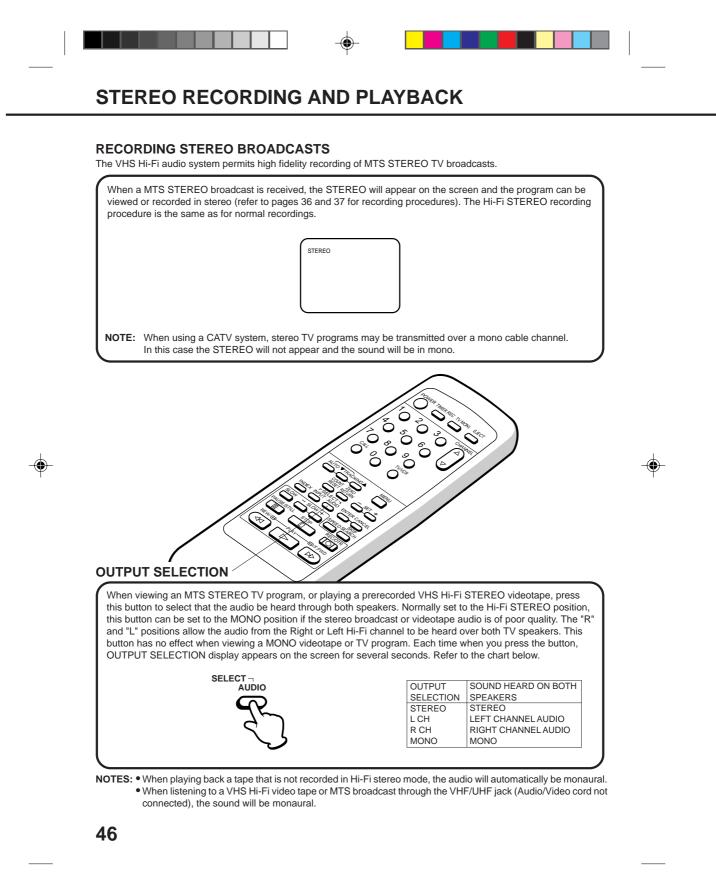


NOTES: • When you recorded an INDEX mark at the very beginning of the tape, the mark may not be found. • During INDEX search, the tape may stop and begin to play at a slightly different location. • INDEX may not function properly with old or worn out video tapes.

# 45

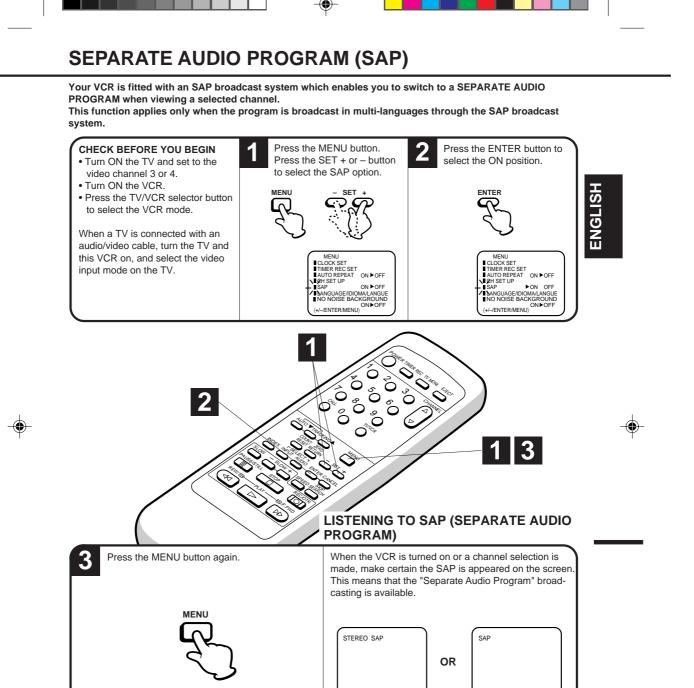
4C94001A/F/P44-49

45



4C94001A/E/P44-49

46



47

4C94001A/E/P44-49

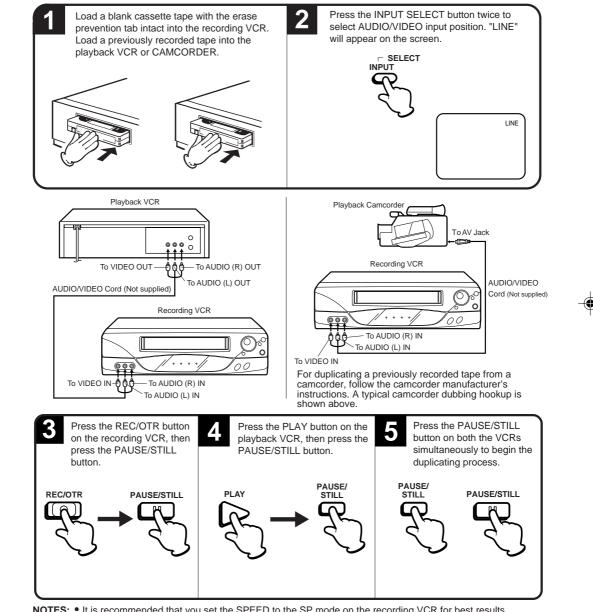
47

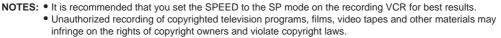
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# **DUPLICATING A VIDEO TAPE**

If you connect the VCR to another VCR or camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.





## 48

4C94001A/E/P44-49

48



# **VIDEO HEAD CLEANING**

### **VIDEO HEAD CLOGGING**

The video heads are the means by which the VCR reads pictures from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the video cassette recorder checked by qualified service personnel.



Good Picture



Snowy Picture



### AUTO HEAD CLEANING

The AUTO HEAD CLEANING system cleans the video heads automatically when a cassette is inserted or ejected to prevent dirt from accumulating on the heads. However, manual head cleaning is needed if the picture on playback is still unclear although the picture on program is normal. This failure signifies that the head is getting dirty and occurs when playing poor quality or damaged tapes. If the heads require cleaning, use a high quality head cleaning system or have them cleaned professionally.

DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE TOP COVER.

NOTES:

- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

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# **BEFORE REQUESTING SERVICE**

Make sure by first checking the following points.

SYMPTOM	CAUSE	POSSIBLE SOLUTION	PAGE
POWER			
No power.	The AC power cord is not connected.	Connect the AC power cord to the AC outlet.	9
Although the power is on, it does not operate.	Cassette is not inserted.	Insert a video cassette.	30
TV BROADCAST RECEPTIO	N		
	Antenna connection is not correct.	Connect it correctly.	14
	Antenna cable is disconnected.	Reconnect the antenna cable.	14
A TV program that is selected by the VCR does not appear on the screen.	The video channel is not in the correct position.	Set it to CH 3 or 4.	
	The TV is not set to the video channel 3 or 4.	Set the TV channel selector to the 3 or 4 position.	
	The TV/VCR selector is set at TV mode. (The TV/VCR indicator is not lit).	Press the TV/VCR selector button. (The TV/VCR indicator will light).	
	INPUT SELECT is set to the LINE mode.	Press the INPUT SELECT button to select the TV mode.	
A TV program selected by the VCR does not appear in color.	The TV/CATV menu option setting.	Set the TV/CATV menu option to select TV or CATV mode.	26
RECORDING	· · · · · · · · · · · · · · · · · · ·		
TV recording does not work.	The erase prevention tab of the video cassette is broken off.	Place a piece of vinyl tape over the gap.	38
	INPUT SELECT is set to the LINE mode.	Press the INPUT SELECT button to select the TV mode.	48
Timer recording does not work.	The time is not set correctly.	Reset the present time.	25
	The recording start/end time is not set correctly.	Set the start/end time.	41
	The TIMER REC button has not been pressed. (The T.REC indicator is not lit). Press the TIMER REC button. (The T.REC indicator will light).		41
PLAYBACK			
No picture on screen when playing back a recorded tape.	The TV is not set to the video channel 3 or 4.	Set to the video channel 3 or 4 or adjust the fine tuning button on your TV set.	23
Noise bars on screen.	Tracking adjustment beyond range of automatic tracking circuit.		
	Video heads are dirty.	Have the video heads cleaned.	49
	The tape is worn or damaged.	Try another tape.	-
REMOTE CONTROL			
Remote control does not work.	It is not aimed at the remote sensor.	Aim it at the remote sensor.	13
	Distance too far or too much light in the room.	Operate within 15 feet (5 meters) reduce the light in the room.	13
	There is an obstacle in the path of the beam.	Clear the path of the beam.	13
	The batteries are weak.	Replace the batteries.	13
	The +, – polarity of the batteries are not inserted correctly.	Insert correctly.	13
TV programs cannot be seen using the TV selector.	The TV/VCR function is in the VCR mode.	Set to TV, or turn off the VCR power button.	_

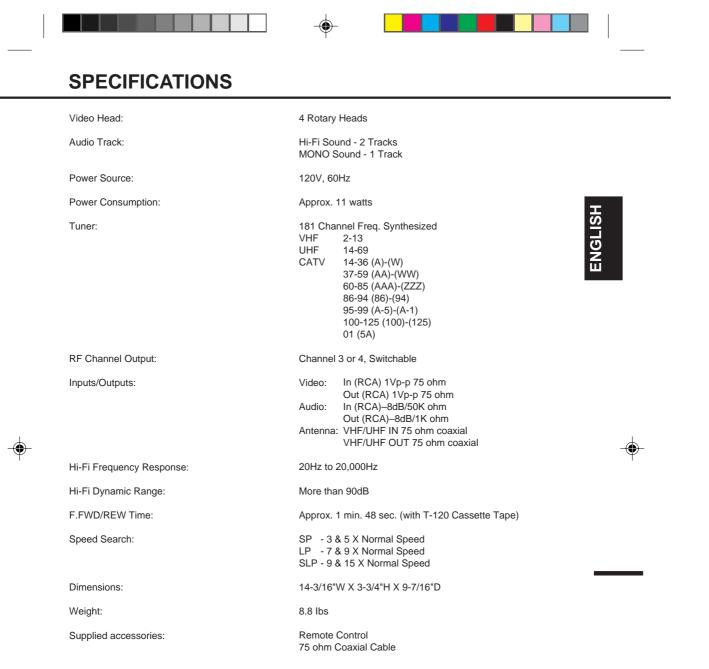
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# 50

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Specifications are subject to change without notice.

4C94001A/E/P50-53

51