# 

# *TV/VCR COMBO USER'S GUIDE*

For model: TV-20F243

# VHS 4 HEAD 19µm HEAD Hi-Fi



### IMPORTANT NOTE TO THE CUSTOMER:

In the space below, enter the serial number for your television (located on the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Serial Number

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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





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 PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTEN-SION 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 correcting the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- 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 party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

# **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.

#### 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 a 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.

### 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 part.

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

### 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.

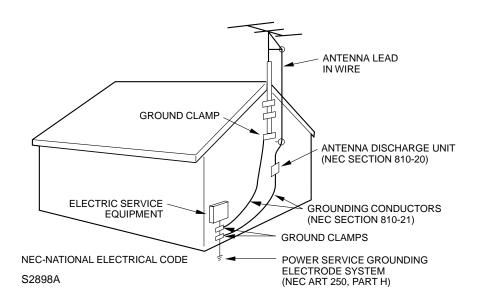
#### 23. HEAT

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.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



# IMPORTANT RECYCLING INFORMATION

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local athorities, or the Electronic Industries Alliance: http://www.eiae.org

# FEATURES

**Real Flat Picture Tube -** It reduces the influence of surrounding light resulting in outstanding image detail and clarity.

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

**19μm HEAD -** For superior picture quality even in EP mode, 19micron width technology heils to avoid crosstalk and boost EP picture quality to near SP levels. With procision technology, ghosts and color beats are virtually eliminated.

**Hi-Fi Stereo Sound -** With a frequency response of 20 to 20,000 Hz and a dynamic range of better than 90dB, this TV/VCR provides a level of excellence that rivals compact discs.

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

**Closed Caption Decoder With Full Text Mode -** Displays text captions or full screen text on the screen for hearing impaired viewers.

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

Auto Clock Set - Once your TV/VCR is pluged into the AC outlet, it automatically sets the correct date and time.

Programmable ON/OFF Timer - Allows you to automatically turn on or off your TV/VCR at a set time.

**Programmable TV Sleep Timer -** Operable from the remote control, the TV can be programmed up to 120 minutes to turn off automatically.

Skip Search - When the SKIP SEARCH button is pressed during playback, the TV/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.

Index Search - Locates the beginning of any recording mode on the TV/VCR.

Automatic Repeat Play System - When Auto Repeat option is turned on, the TV/VCR will automatically play back the same cassette tape repeatedly.

**Instant Timer Recording (ITR) -** Simply by pressing the REC and PLAY buttons, the TV/VCR can be programmed for up to 5 hours of recording with an immediate start.

Audio/Video Input Jacks - A VCR or other video device may be hooked up to this TV/VCR for dubbing or playback purposes.

EZ JECT - Automatically ejects the tape after rewinding the tape.

RE-VIEW - This feature helps you to watch the recorded program by the timer recording quickly.

**TV/CATV switch -** You can operate your Cable Box with the remote control supplied after you have registered the 3-digit codes for their brand name.

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

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

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

V-Chip - The V-Chip function can rate a TV program or a movie content. It allows you to set a restriction level.

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It is recommended that you carefully read the descriptions and operating procedures contained in this User's Guide prior to operating your new TV/VCR.



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# MOISTURE CONDENSATION

DO NOT OPERATE ANY FUNCTIONS ON THIS UNIT FOR AT LEAST TWO OR THREE HOURS WHEN MOISTURE IN THE AIR CONDENSES ON IT. LET THE UNIT STAND WITH POWER ON (SEE BELOW).

#### ■ 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.

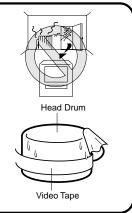
### MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;

- When you move the unit 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, set the POWER switch to ON and leave the unit at room temperature until moisture condensation disappears.

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

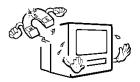


If you cause a static discharge when touching the unit, and the unit fails to function, simply unplug the unit from the wall outlet, wait a few minutes, and plug it back in. The unit should return to normal operation.



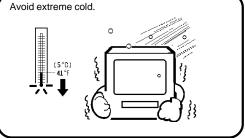
Do not place the unit on or near appliances which may cause electromagnetic interference (e.g. speakers, etc). Doing so may cause erratic operation of the unit including picture and/or sound distortion or noise.

NO)



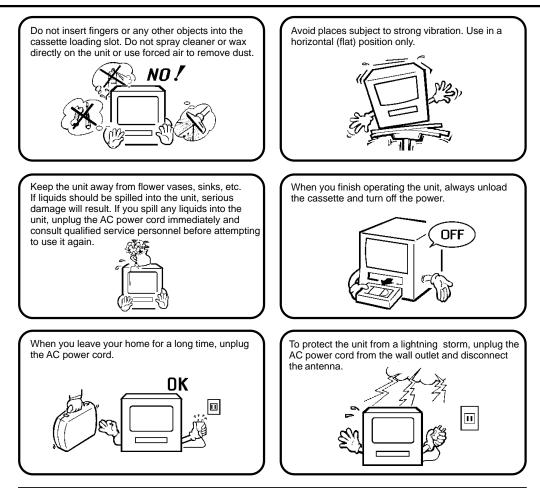
Avoid extreme moisture and dust.

Avoid extreme heat.

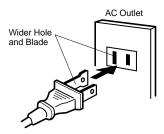


The ventilation holes prevent overheating. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.





# POWER SOURCE



Polarized AC Cord (One blade is wider than the other.)

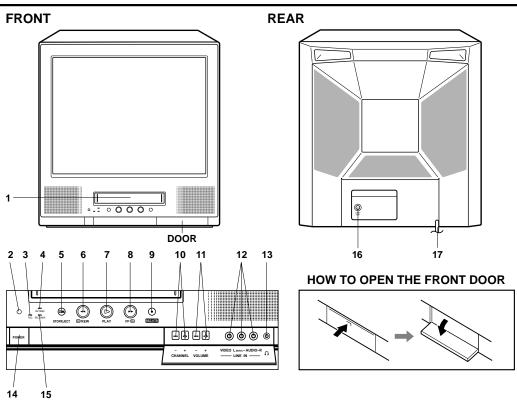
#### TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

#### NOTES:

- 1. Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.
- If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
- If you cause a static discharge when touching the unit, and the unit fails to function, simply unplug the unit, from the AC outlet, wait a few minutes, and plug it back in. The unit should return to normal operation.

# LOCATION OF CONTROLS



# **DESCRIPTION OF CONTROLS**

### FRONT:

8

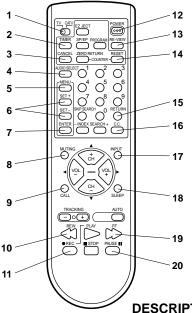
- 1. Cassette Loading Slot To insert or remove a video tape.
- 2. Remote Sensor Signals from the Remote Control are received here.
- 3. REC Indicator Lights when the TV/VCR is recording.
- ON TIMER Indicator This indicator lights up when the powered up. It also lights up when ON TIMER program is turned ON while power is OFF.
- 5. STOP/EJECT Button Press once to stop the tape in any mode. Press again to eject the tape.
- REW (Rewind) Button In the Stop mode, this button rapidly winds the tape backwards. In the Play mode, this button activates reverse search.
- 7. PLAY Button Press to play a prerecorded tape.
- FF (Fast Forward) Button In the Stop mode, this button rapidly winds the tape forward. In the Play mode, this button activates forward search.
- **9. REC / ITR Button -** Press once to start normal recording. Additional presses activate Instant Timer Recording.
- CHANNEL + / Buttons Press to select a channel for viewing or recording.

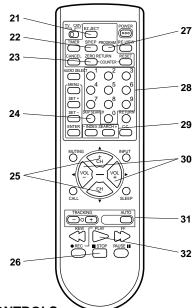
- VOLUME + / Buttons Press to raise or lower the volume of the sound.
- 12. AUDIO (L/R)/VIDEO IN Jacks Audio and video signal cables from an external source can be connected here.
- **13. Headphone Jack -** Plug headphones with an 1/8" miniplug into this jack for private listening.
- 14. POWER Button Press to turn the TV/VCR on or off.
- REC TIMER Indicator This lights when the TIMER button is pressed.

### REAR:

- UHF/VHF Antenna Jack Connect the 75 ohm coaxial cable from the antenna or Cable TV service to this jack.
- 17. AC Power Cord Connect to a 120V, 60Hz outlet.

# **REMOTE CONTROL**





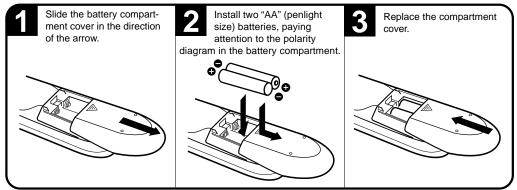
# **DESCRIPTION OF CONTROLS**

- TV/CATV Switch Used to select the TV/VCR or Cable Box to be operated. (You can operate your cable box after you have programed the remote control.)
- TIMER Button Used to set the TV/VCR to start recording at a preset time.
- 3. CANCEL Button Press to cancel existing setups or to restore default values.
- AUDIO SELECT Button Switches sound between mono and stereo, and SAP when receiving broadcasts in stereo or SAP.
- MENU Button Press to display the On-Screen menu function.
- SET + / Buttons Used to select the option in the menu or set timer recording, ON/OFF timer, channel set, picture adjustment, auto repeat, clock and language.
- 7. ENTER Button Press to enter selected setup.
- 8. MUTING Button Press to turn off the sound. Press again to turn the sound back on.
- CALL Button Displays the present time/day of the week, channel, counter, speed selection (and VCR mode if VCR is playing) on the TV screen.
- REW (Rewind) Button In the Stop mode, this button rapidly winds the tape backwards. In the Play mode, this button activates reverse search.
- REC Button Press once together with the PLAY button to start normal recording. Additional presses activate Instant Timer Recording.
- 12. POWER Button Press to turn the TV/VCR on. Press again to turn the TV/VCR off.
- RE-VIEW Button Used to locate the beginning of the recorded program by the timer recording and starts playback automatically.
- 14. COUNTER RESET Button Used to reset the counter to 00:00:00.
- 15. RETURN Button Switches between the present channel and the last channel selected.
- C.C. (Closed Caption) Button Switches between Caption, Text and TV modes for Closed-Captioned programs.

- INPUT Selector Button Switches the program for viewing between the VCR and external input source.
- SLEEP Button Sets the TV to turn off automatically after up to 120 minutes.
- FF (Fast Forward) Button In the Stop mode, this button rapidly winds the tape forward. In the Play mode, this button activates forward search.
- 20. PAUSE Button During recording, this button temporarily stops the tape. During playback, it stops the tape and displays a still image on the TV screen.
- EZ JECT Button Press this button after finished watching the rental video tape. The tape will be rewound and ejected automatically.
- 22. SP/EP Selector Button Sets the tape speed for recording.
- 23. ZERO RETURN Button Use to stop the tape when the counter reaches 00:00:00.
- 24. SKIP SEARCH Button Press in the playback mode to search forward in 30 second increments to a maximum of 3 minutes.
- 25. CHANNEL + / Buttons Press the + button to change to a higher numbered channel set into memory. Press the – button to change to a lower numbered channel set into memory.
- 26. STOP Button Press once to stop the tape.
- 27. PROGRAM Button Press to confirm the programmed timer recording and ON/OFF timer.
- Direct Channel Selection Buttons (0-9) Allows direct access to any channel.
- 29. INDEX SEARCH + / Buttons Used to search for the INDEX mark.
- VOLUME + / Buttons Press the + button to increase, or the – button to decrease the volume level.
- Digital AUTO TRACKING Buttons Allows automatic or manual adjustment of tracking to minimize picture noise during playback.
- 32. PLAY Button Press to play a prerecorded tape.

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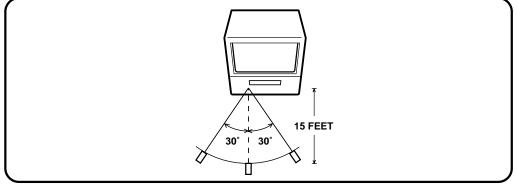
# **BATTERY INSTALLATION**



# **BATTERY PRECAUTIONS**

- The precautions below should be followed when using batteries in this device:
- 1. Use only the size and type of batteries specified.
- 2. 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.
- 3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- 4. 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.
- 5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)
- 6. When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your Cable Box may have to be reset (see page 11).

# EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER



NOTE: • When there is an obstacle between the TV/VCR and the transmitter, the transmitter may not operate. • When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the

Remote sensor of the TV/VCR, the remote operation may be unstable.

# Setting the CATV or Satellite receiver

You can program your remote to operate your cable box, satellite receiver by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the search code function, use the remote control supplied by the manufacturer.

# Cable Box or Satellite setup

The remote control is programmed with CATV and/or Satellite codes for power on, power off, channel up, channel down, and 10 key operation.

- 1. Find the CATV/Satellite brand from the list of codes shown below.
- 2. Slide the 2-way selector switch (TV/CATV switch) to "CATV".
- 3. Press and hold down the CALL button.
- 4. With the CALL button held down, enter the first code number listed using the 10 key pad.
- 5. Release the CALL button.
- 6. Confirm the operation of the Cable Box/Satellite receiver.
- If your CATV or Satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the Search Codes Function at the bottom of the page.

Cable Box	CODES	Cable Box	CODES	Digital Satellite	CODES
ABC	024	Puser	032	System	
Archer	032, 025	RCA	061, 070	e je te m	
Cableview	051, 032	Realistic	032	Echostar	100, 113, 114
Citizen	022, 051	Regal	058, 064, 040, 041, 042, 045,	Express VU	100, 113
Curtis	058, 059		068	G.E.	106
Dlamond	024, 032, 025	Regency	034	G.I.	108
Eagle	029	Rembrandt	037, 032, 051, 038	Gradiente	112
Eastern	034	Samsung	051	Hitachi	104, 111
GC Brand	032, 051	Scientific Atlanta	057, 058, 059	HNS (Hughes)	104
Gemini	022, 043	SLMark	051, 047	Panasonic	105
General instrument	065, 024, 025, 026, 027, 020,	Sprucar	051,066	Philips	102, 103
	021, 022, 057, 023	Strargate	032, 051	Primestar	108
Hamlin	040, 041, 042, 045, 058, 064	Telecaption	067	Proscan	106, 109, 110
Hitachi	049, 024	Teleview	047, 051	RCA	106, 109, 110
Jerrold	065, 024, 025, 026, 027, 020,	Texscan	044	Sony	107
	021, 022, 057, 023	Tocom	035, 036, 066	Star Choice	104, 108
Macom	049, 050,051,054	Toshiba	050	Toshiba	101
Magnavox	033	Unika	032, 025	Uniden	102, 103
Memorex	030	Universal	022, 032		
Movietime	032, 051	Videoway	052		
Oak	039, 037, 048	Viewstar	029, 030	]	
Panasonic	055, 056, 060, 071	Zenith	063, 046	]	
Paragon	063	Zenith/Drake	046	]	
Philips	028, 029, 030, 052, 053, 031, 069	Satellite		]	
Pioneer	047, 062			]	
Pulsar	051, 032				

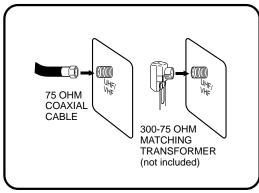
# Search Codes Function:

- 1. Slide the 2-Way Mode Selector switch (TV/CATV switch) to CATV.
- 2. Press the TV POWER and RETURN buttons. Hold for at least three seconds and release.
- 3. Press TV POWER, see if the CATV or Satellite box responds.
- 4. If there was a response, press RETURN. The operating codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 52 times without a response, use the remote control which came with the equipment.
- 5. Press RETURN to exit.

# ANTENNA CONNECTIONS

If you are using outdoor antenna (outdoor antenna not included), follow the instructions below that correspond to your antenna system. If you are using a cable TV service (CATV), see page 13 for Cable TV connections.

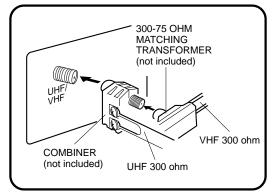
# Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)



Connect the 75 ohm cable from the combination VHF/ UHF antenna to the antenna jack.

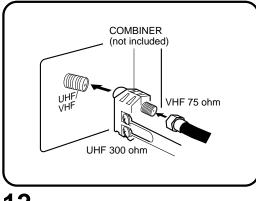
If your combination VHF/UHF antenna has a 300 ohm twin-lead wire, the use of the 300-75 ohm matching transformer may be necessary.

# Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-lead wires)



Connect the UHF 300 ohm twin-lead wire to the combiner (not supplied). Connect the VHF 300 ohm twin-lead wire to the 300-75 ohm matching transformer. Attach the transformer to the combiner, then attach the combiner to the antenna jack.

# Separate VHF/UHF Antennas (75 ohm VHF cable and 300 ohm UHF twin-lead wires)

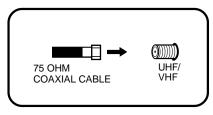


Connect the VHF 75 ohm cable and UHF 300 ohm twin-lead wire to the combiner. Attach the combiner to the antenna jack.

# **CABLE TV CONNECTIONS**

This TV/VCR has an extended tuning range and can tune most cable channels without using a Cable TV converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

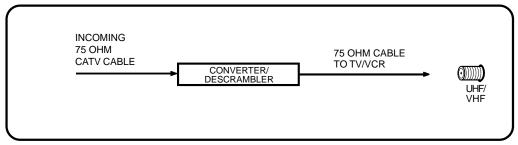
# FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE



For basic cable service not requiring a converter/descrambler box, connect the CATV 75 ohm coaxial cable directly to the antenna jack on the back of the TV/VCR.

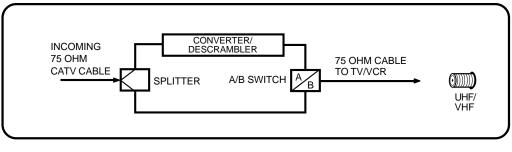
# FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE

If you subscribe to a cable TV service which requires the use of a converter/descrambler box, connect the incoming 75 ohm coaxial cable to the converter/descrambler box. Using another 75 ohm coaxial cable, connect the output jack of the converter/descrambler box to the antenna jack on the TV/VCR. Follow the connections shown below. Set the TV/VCR to the output channel of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to select channels.



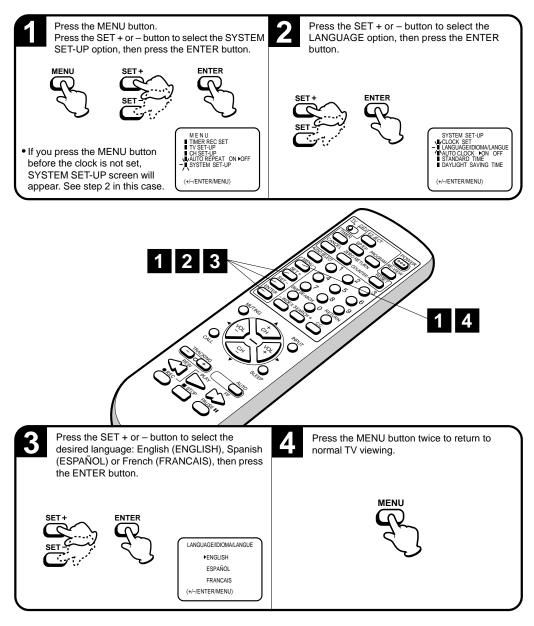
# FOR SUBSCRIBERS TO UNSCRAMBLED BASIC CABLE TV SERVICE WITH SCRAMBLED PREMIUM CHANNELS

If you subscribe to a cable TV service in which basic channels are unscrambled and premium channels require the use of a converter/descrambler box, you may wish to use a signal splitter and an A/B switch box (available from the Cable company or an electronics supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV/VCR. With the switch in the "A" position, tune your TV/VCR to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/ descrambler box to tune scrambled channels.



# SETTING LANGUAGE

This TV/VCR can display the on screen language in English, Spanish or French. Language selection (step 3) will automatically appear on the screen when you press the MENU button initially. Select language to use the other menu options.



# AUTO CLOCK SETTING

The Auto Clock feature enables the automatic clock setting and updating, and also to set the Time Zone and Daylight Saving Time by receiving XDS (Extended Data Service) information carried on the channel signal. You must set the antenna connection before the AC cord plug is inserted into the AC outlet.

# AUTO CLOCK SETTING

WAIT 30 MINUTES! when the power switch is off, after the connections of the antenna and the power plug. Because the Auto Clock setting feature is activate.

After the clock is set automatically, you may have to set the Time Zone and Daylight Saving Time.

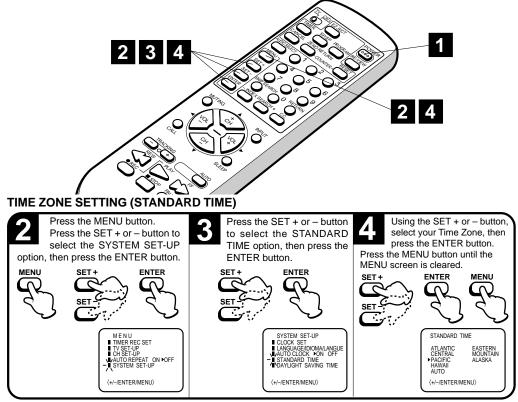
Press the POWER button to turn on the TV/VCR after the Auto Clock operation completed.



- When shipped from factory, the AUTO CLOCK option is set to AUTO position.
- If you turn the TV/VCR on in Auto Clock setting, the clock is not set.
- With cable box connection, if the Auto Clock Setting is unsuccessful, please select the PBS channel carrying the XDS information, then turn the TV/VCR off. After 30 minutes, turn the TV/VCR on, and if the clock is not set automatically, set the clock manually. (See page 17.)

### Canadian Viewers:

Please see note regarding the AUTO CLOCK SETTING option on page 55.

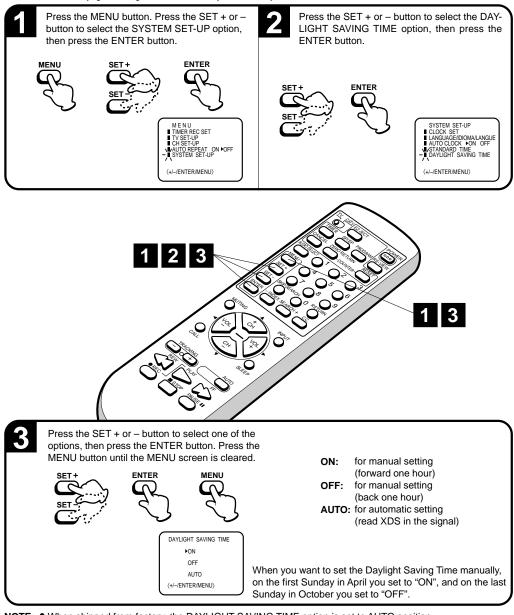


**NOTE:** • After Auto Clock setting, in some case the clock may display the other time zone's. You can correct the clock by selecting your Time Zone setting above.

• When the clock is not set or you set the clock manually, Time Zone setting is not available.

### DAYLIGHT SAVING TIME SETTING

You can set the Daylight saving time automatically or manually.

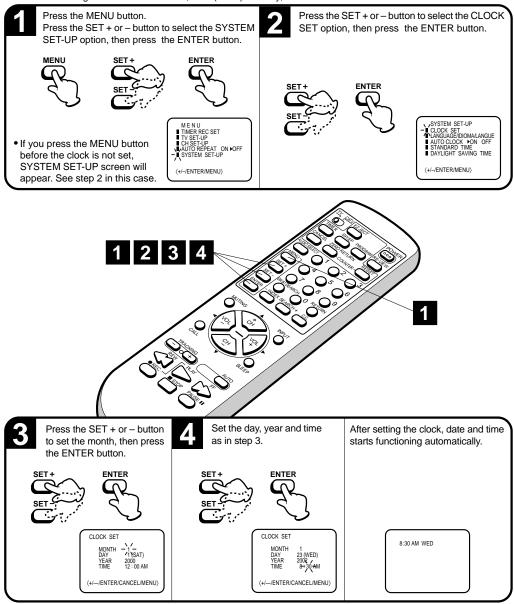


- **NOTE:** When shipped from factory, the DAYLIGHT SAVING TIME option is set to AUTO position.
  - When the clock is not set, Daylight Saving Time setting is not available.
    - When there is no Daylight Saving Time in your area, always select OFF position in step 3.

# MANUAL CLOCK SETTING

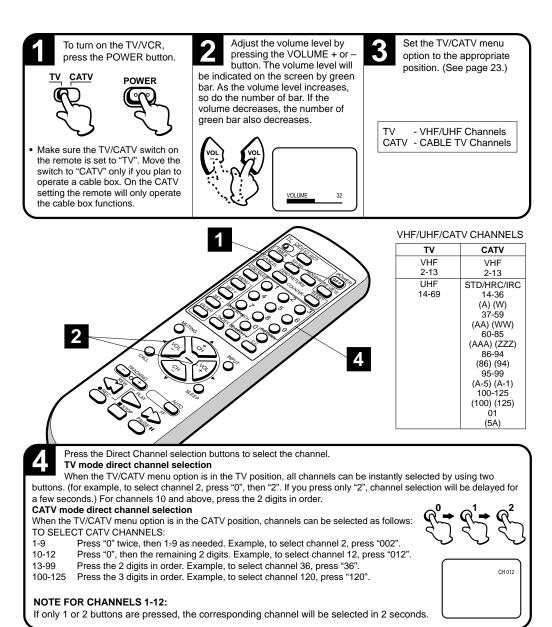
You must set the date and time manually for timer recordings, ON/OFF Timer and Daylight Saving Time if the Auto Clock process did not set them correctly.

EXAMPLE: Setting the clock to "8:30 AM", 23th (WED) January, 2002.



- **NOTE:** After a power failure or disconnection of the power plug, the time display will be lost. In this case, set the present time again if the Auto Clock did not set correctly.
  - If you want to correct the digits while setting, press the CANCEL button until the item you want to correct, then press the SET+ or – button to correct the desired setting.
  - When you set the minute, you can change in 10-minutes step by holding down the SET + or button.

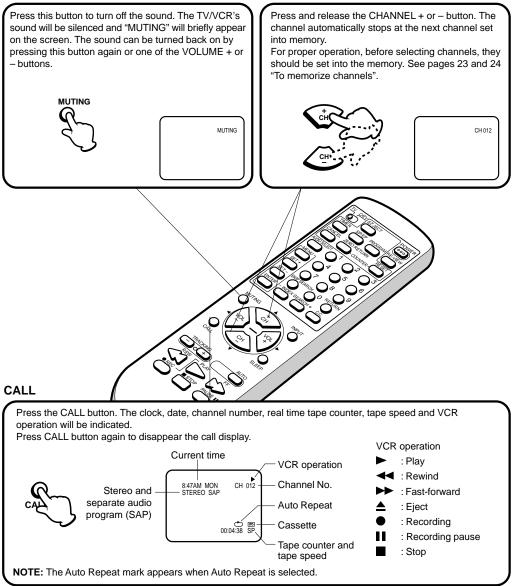
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JOTE: A K - shows to the sector dependence to endepted the second offlice terms for the barrented

- **NOTE:** If a channel with no broadcast is selected, the sound will automatically be muted.
  - If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.

### MUTING



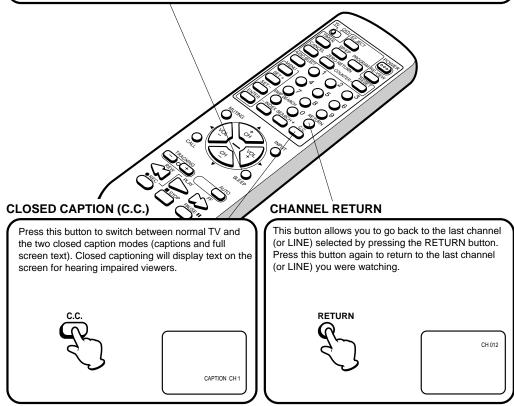
CHANNEL + AND -

To listen through the headphone, insert a headphone (not supplied) with a 1/8" mini plug into PHONES jack on the front. The sound from the TV speaker is muted.

# **TV OPERATION**

### SLEEP

To set the TV/VCR to turn off after a preset amount of time, press the SLEEP button on the remote control. The clock will count down 10 minutes for each press of the SLEEP button (120, 110, ...10, 0). After the sleep time is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating. To confirm the sleep timer setting, press the SLEEP button and the remaining time will be momentarily displayed. To cancel the sleep timer, press the SLEEP button repeatedly until the display turns to 0.



- NOTE: If the station being viewed stops broadcasting, the TV will shut off after 15 minutes.
  - If using an indoor antenna or if TV reception is very poor, the Closed Caption Decoder text may not appear. In this case, adjust the antenna for better reception or use an outdoor antenna.
  - When activating the Closed Captioned Decoder, there will be a short delay before the Closed Captioned text appears on the screen.
  - Closed Captioned TV programs can be recorded and played back on a VCR with the Closed Captioned text
    intact. The Closed Captioning text will disappear during Cue, Rewind and Pause modes or if the VCR
    tracking is not adjusted properly.
  - Closed Captioned text is only displayed in locations where it is available.

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#### WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display Closed Captioned television programs. Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

#### **CLOSED CAPTIONING WITH A VCR**

Closed Captioned programs can be recorded and played back on a VCR with the Closed Captioned text intact. The Closed Captioned text will disappear during Cue (Fast Forward Search), Review (Rewind Search) and Pause Modes or if the VCR tracking is not adjusted properly.

#### TO VIEW CLOSED CAPTIONS

Press the C.C. button on the remote control to switch between normal TV and the two Closed Caption Modes (Captions and Full Screen Text).

**Captions:** This Closed Caption Mode will display text on the screen in English or another language (depending on the setting of the Closed Captions CH. Channel 1 or Channel 2).

Generally, Closed Captions in English are transmitted on Captions Channel 1 and Closed Captions in other languages are transmitted on Captions Channel 2. **Text:** The Text Closed Caption Mode will usually fill the screen with a programming schedule or other information. After selecting a Closed Caption Mode, it will stay in effect until it is changed, even if the channel is changed. If the Captions signal is lost due to a commercial or a break in the signal, the Captions will reappear when the signal is received again.

If the channels are changed, the Captions will be delayed approximately 10 seconds.

The Captions will appear in places on the screen where they will least interfere with the picture, usually on the bottom of the screen. News programs will usually show three-line Closed Captions which scroll onto the screen. Most other shows provide two or three lined Captions placed near the character who is speaking so the viewer can follow the dialogue.

Words in italics or underlined describe titles, words in foreign languages or words requiring emphasis. Words that are sung usually appear enclosed by musical notes. For television programs broadcasting with Closed Captions, look in your TV guide for the Closed Captions symbol (CC).

- When selecting Closed Captions, the captioning will be delayed approximately 10 seconds.
- If no caption signal is received, no captions will appear, but the television will remain in the Caption Mode.
- Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When the on-screen indicator appears during volume adjustment operation, etc., Closed Caption text will not be displayed.
- Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
- If using an indoor antenna or if TV reception is very poor, the Closed Caption Decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

# STEREO AND SEPARATE AUDIO PROGRAM (SAP)

The TV/VCR is equipped with a feature known as Multi-channel TV Sound or MTS. MTS broadcasts greatly enhance TV viewing by bringing you programs with high fidelity stereo sound. MTS also provides an extra channel called the Separate Audio Program or SAP which broadcasters can use to transmit a second language for bilingual transmission or for other purposes.

# LISTENING TO STEREO SOUND

When the TV/VCR is turned on or a channel selection is made, make certain that the word "STEREO" appears on the screen. This means that "Stereo" broadcasting is available. You can enjoy stereo sound from the left and right speakers.

NOTES:

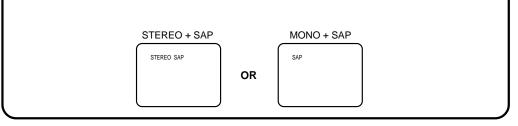
- When the "Mono" broadcasting is received, no indication is displayed.
- If the broadcast signal is not strong enough or clear stereo sound is not available, press the AUDIO SELECT button to change to mono sound when the SAP setting is "OFF" position. The noise should be eliminated. Press it again to return to the stereo sound.

STEREO

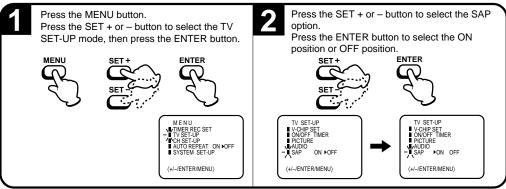
# LISTENING TO SAP (SEPARATE AUDIO PROGRAM)

When the TV/VCR is turned on or a channel selection is made, make certain the SAP is appeared on the screen. This means that the "Separate Audio Program" broadcasting is available.

Normally SAP broadcasting has the primary sound (language) and SAP sound (second language or the information). You can select it as you prefer using AUDIO SELECT button when the SAP setting is "ON" position.

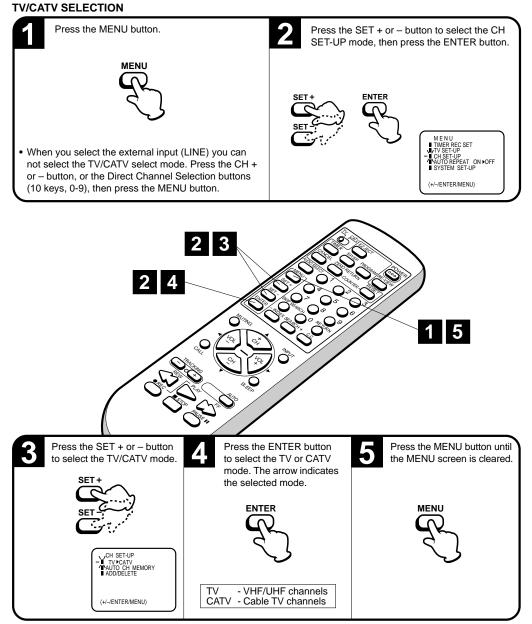


# TO SET SAP ON OR OFF

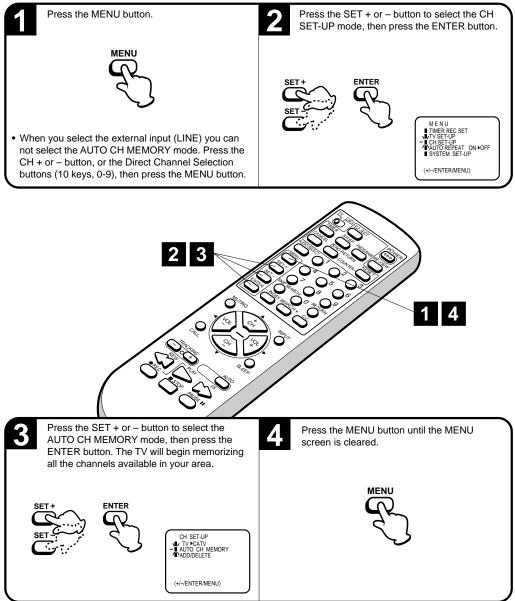


# TO MEMORIZE CHANNELS

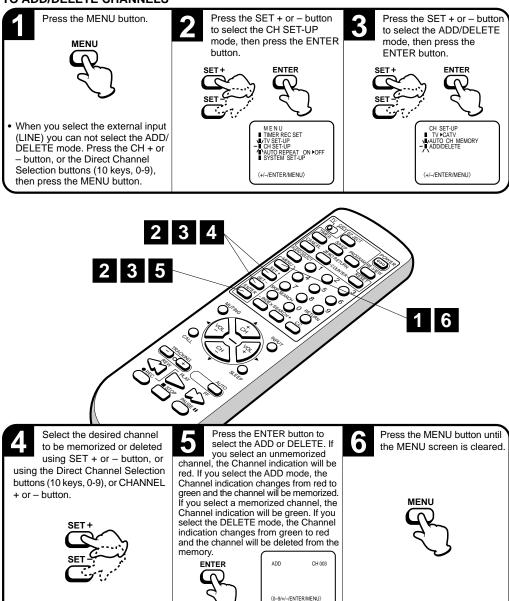
This TV/VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV/VCR's memory. In addition to normal VHF and UHF channels, this TV/VCR can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



### AUTOMATIC MEMORY TUNING



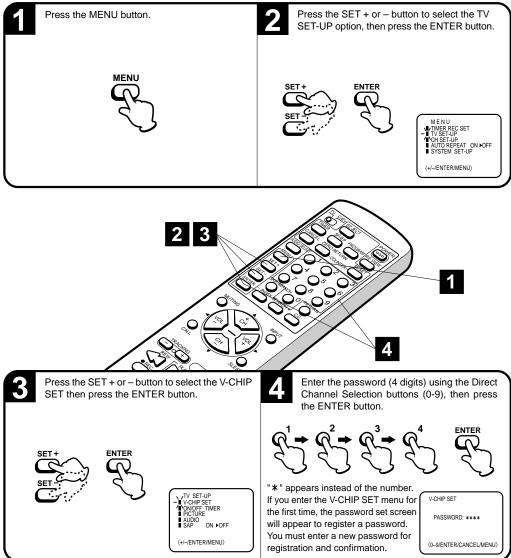
# TO ADD/DELETE CHANNELS



# **SETTING THE V-CHIP**

An age limitation can be set to forbid children to see and hear violent scenes or pictures for adults, etc. The TV/VCR responds to "TV RATING", "MOVIE RATING" and "CANADIAN RATING". To use the V-Chip function, you must register a password.

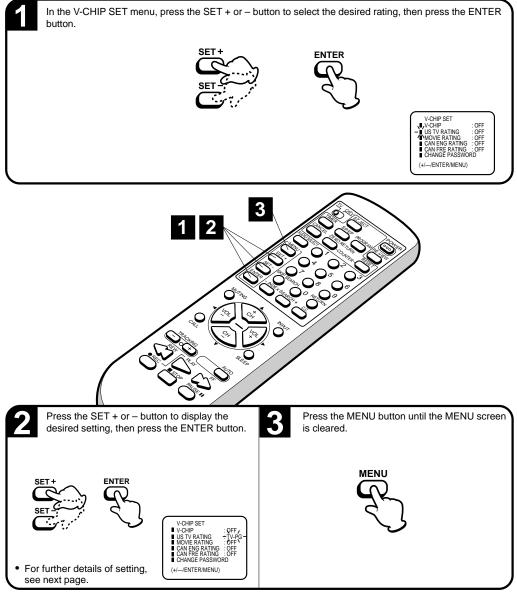
# TO REGISTER PASSWORD



NOTES: • If you forget the password, you cannot set the V-Chip.

• To avoid forgetting the password, write it down and keep in a safe place.

# TO SET THE V-CHIP



NOTES: • The V-Chip function is activated only on programs and tapes that have the rating signal.

• To activate the V-Chip function, select "V-CHIP" in the V-CHIP SET menu then press the ENTER button to select the "ON" position.

# **US TV RATING**

- OFF : US TV RATING is not set
- TV-Y : All children
- TV-Y7: 7 years old and above
- TV-G : General Audience
- TV-PG: Parental guidance
- TV-14: 14 years old and above
- TV-MA: 17 years old and above
- When you select TV- Y7, TV-PG, TV-14 or TV-MA, press the CALL button to show the contained rating. Press the SET + or button to select the desired item you want. Press the ENTER button to select OFF. If you want to back to the V-CHIP SET menu, press the MENU button.

# **MOVIE RATING**

OFF	:	MOVIE RATING is not set
G	:	All ages
PG	:	Parental guidance
PG-13	:	Parental guidance less than 13 years old
R	:	Under 17 years old
		Parental guidance suggested
NC17	:	17 years old and above
х	:	Adult only

# **CANADIAN ENGLISH RATING**

# E: Exempt

Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.

### **C: Programming Intended for Children**

Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.

### C8+: Programming Intended for Children 8 and Over

Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.

### **G: General Audience**

Programming will contain little violence and will be sensitive to themes which could affect younger children.

### **PG: Parental Guidance**

Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.

### 14+: 14 Years and Older

Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.

### 18+: Adult

Material intended for mature audiences only.

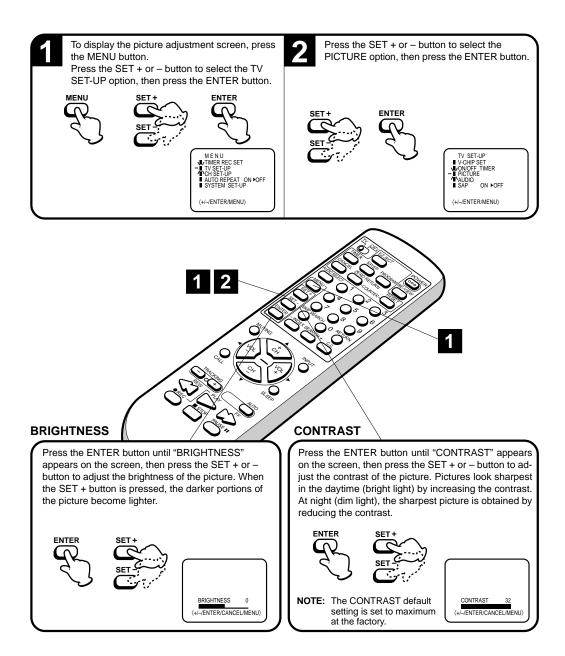
• For instructions on "CLASSIFICATION CANADIENNE FRANÇAISE" (in French), please see page 28 in the French side of this user's guide.

# **TO CHANGE PASSWORD**

1. Press the MENU button. 2. Press the SET + or – button to select the TV SET-UP, then press the MENU MENU TIMER REC SET TV SET-UP AUTO REPEAT ON FOFF SYSTEM SET-UP ENTER button. (+/-/ENTER/MENU) 3. Press the SET + or - button to select the V-CHIP SET, then press the TV SET-UP V-CHIP SET NON/OFF TIMER PICTURE AUDIO ENTER button. SAP ON NOFE (+/-/ENTER/MENU) 4. Enter the Password using the Direct Channel Selection button (0-9), V-CHIP SET then press the ENTER button. PASSWORD: ----(0-9/ENTER/CANCEL/MENU) 5. Press the SET + or - button to select CHANGE PASSWORD, then press V-CHIP SET US V-CHIP ON the ENTER button. TV RATING : TV-PG MOVIE RATING : PG-13 CAN ENG RATING : OFF CAN FRE RATING : OFF CHANGE PASSWORD TV RATING +/-/ENTER/MENU> 6. Enter the new password using the Direct Channel Selection button CHANGE PASSWORD (0-9), then press the ENTER button. NEW PASSWORD: ----(0-9/ENTER/CANCEL/MENU) 7. Enter the same password again for safety, then press the ENTER CHANGE PASSWORD button. CONFIRM PASSWORD: ----(0-9/ENTER/CANCEL/MENU) 8. Press the MENU button repeatedly to return to normal screen.

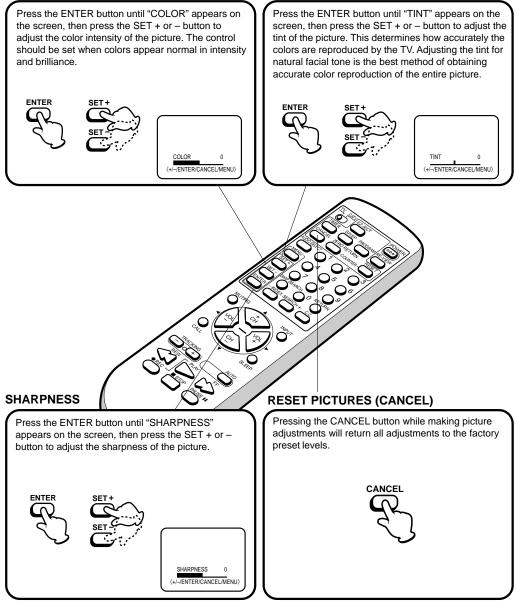
# PICTURE CONTROL ADJUSTMENTS

Picture controls are factory preset but you can adjust them individually as follows:



# COLOR

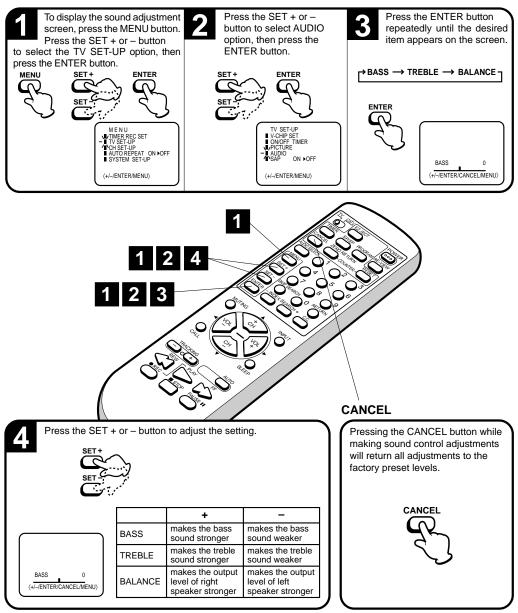
TINT



**NOTE:** The On-screen display will disappear 6 seconds after finishing an adjustment or by pressing the MENU button three times. The settings can only be adjusted when they are displayed on the TV screen.

# SOUND CONTROL ADJUSTMENTS

Sound controls are factory preset but you can adjust them as follows.

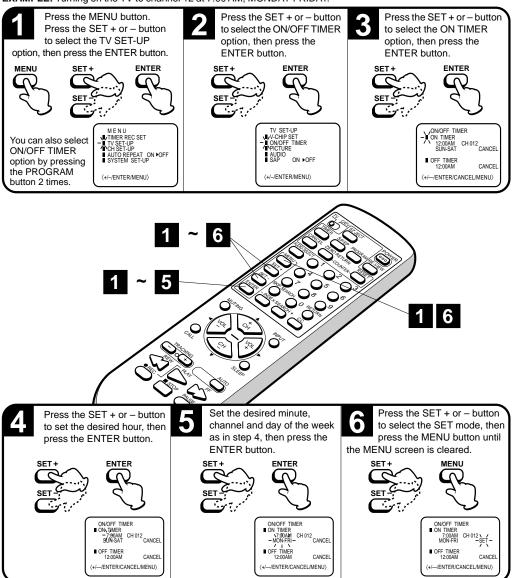


**NOTE:** The On-screen display will disappear 6 seconds after finishing an adjustment or by pressing the MENU button three times. The settings can only be adjusted when they are displayed on the TV screen.

# TO SET THE ON TIMER

This feature allows you to have the TV automatically turn "ON" at predetermined time. If you program the ON TIMER once the timer will turn "ON" the TV daily at the same time and to the same channel.

EXAMPLE: Turning on the TV to channel 12 at 7:00 AM, MONDAY-FRIDAY.



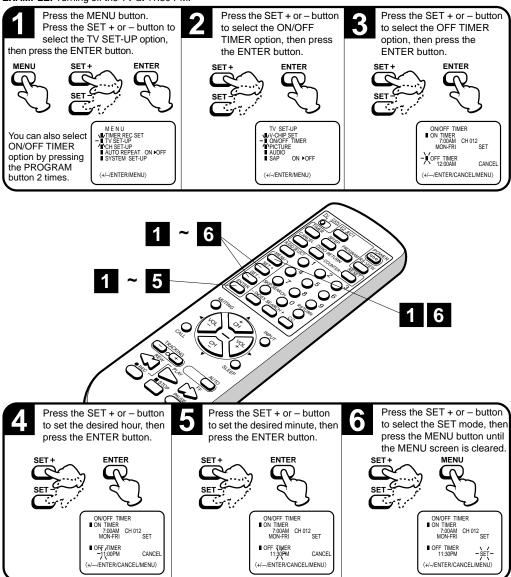
- NOTE: The TV will automatically turn off approximately 1 hour later after the ON TIMER turns on the TV. If you wish to continue watching the TV, press any button to cancel the one hour automatic shut off. This shut off feature prevents the TV from playing continuously if no OFF TIMER is set.
  - To cancel the ON TIMER function; To cancel ON TIMER, follow above steps 1-6, then press the ENTER button to select the CANCEL position. Press the MENU button to return to the TV.
  - After setting the ON TIMER, " " of the OFF TIMER will flash on and off. If you wish to set the OFF TIMER, press the ENTER button then follow the steps 4-6 on page 34.
  - If you want to correct the digits while setting, press the CANCEL button until the item you want to correct, then press the SET + or button to correct the desired setting.

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# TO SET THE OFF TIMER

This feature allows you to have the TV turn "OFF" automatically at a predetermined time. If you program the OFF TIMER once, the TV will be automatically turned off at the same time daily.

EXAMPLE: Turning off the TV at 11:30 PM.



NOTE: • If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.

# To cancel the OFF TIMER function:

To cancel OFF TIMER, follow above steps 1-5, then press the SET + or – button to select the CANCEL position. Press the MENU button to return to the TV.

# • To confirm the ON/OFF TIMER:

Press the PROGRAM button twice to indicate the programmes on the screen.

# LOADING AND UNLOADING A VIDEO CASSETTE

### Use only video cassette tapes marked VHS.

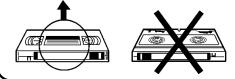
### LOADING

Push the center of the tape until it is automatically retracted into the TV/VCR.

#### AUTOMATIC POWER ON AND PLAY

When loading a cassette tape without the erase prevention tab intact, the TV/VCR will turn on automatically and playback will start immediately.

Insert the cassette with its labeled side facing you. An inverted video cassette cannot be inserted.





### UNLOADING

To unload a video cassette, press the STOP/ EJECT button on the TV/VCR twice. The first press will stop the tape in any mode. The second press will eject the tape.



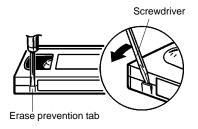


#### AUTOMATIC EJECT

If the TV/VCR automatically rewinds the tape to the beginning (AUTO REWIND FEATURE), the tape will be ejected automatically. (See NOTE on page 43.)

### TO PREVENT ACCIDENTAL ERASURE

After recording, break off the erase prevention tab if you do not wish to record over the tape.



### TO RECORD AGAIN

Cover the hole with vinyl tape.

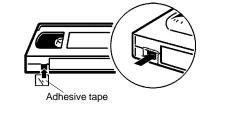
POWER is "OFF".

Pull the cassette out.

Be careful the tape does not extend past the edges of the video cassette housing.

• The cassette tape can be ejected even if the

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

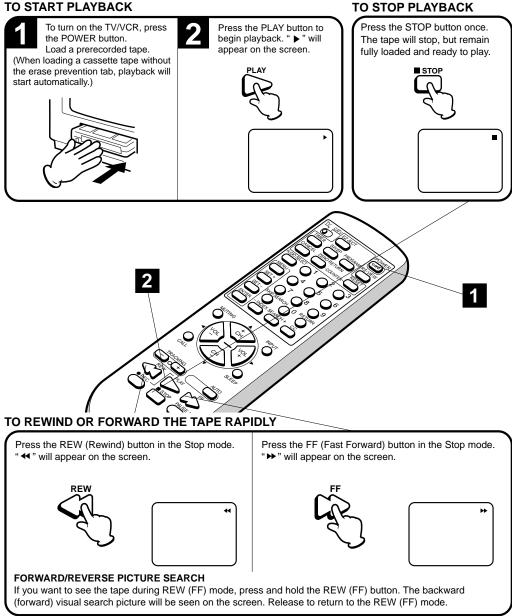


### TAPE SPEED AND MAXIMUM RECORDING TIME

TAPE SPEED		VI	DEO CASETTE TA	PE	
TAPE OF LED	T-160	T-160 T-120 T-90		T-60	T-30
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes
EP (Extended Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours

#### To play a prerecorded tape.

### TO START PLAYBACK

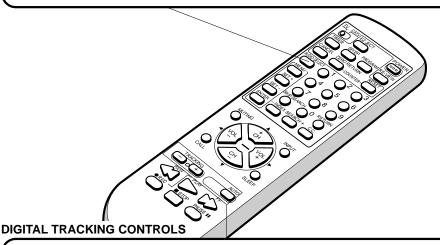




### **OUTPUT SELECTION**

When viewing an MTS STEREO TV program, or playing a prerecorded VHS Hi-Fi STEREO videotape, press this button to select that the audio be heard through both speakers. Normally set to the Hi-Fi STEREO position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

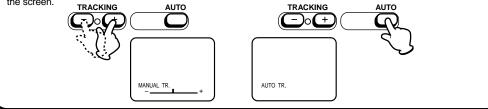
AUDIO SELECT	OUTPUT SOUND HEARD ON BOTH
	SELECTION SPEAKERS
<u> </u>	STEREO STEREO
6)	L ch LEFT CHANNEL AUDIO
$\chi$	R ch RIGHT CHANNEL AUDIO
₹ ₹	MONO MONO



When a tape is played, the Digital Auto Tracking system automatically adjusts the tracking to obtain the best possible picture. If noise bars appear during playback, adjust the tracking manually as follows:

Press the TRACKING + or – button to obtain the best possible picture. "MANUAL TR." will appear for 4 seconds on the screen.

To resume automatic tracking, press the AUTO TRACKING button. "AUTO TR." will appear for 4 seconds on the screen.

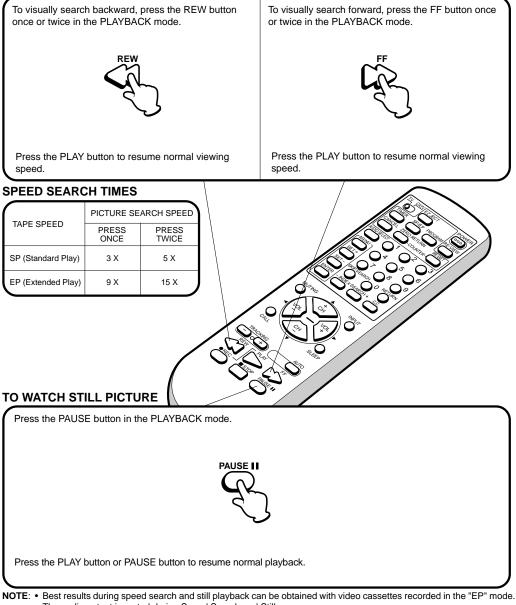


# SPECIAL PLAYBACK

### TO VISUALLY SEARCH FOR DESIRED POINTS

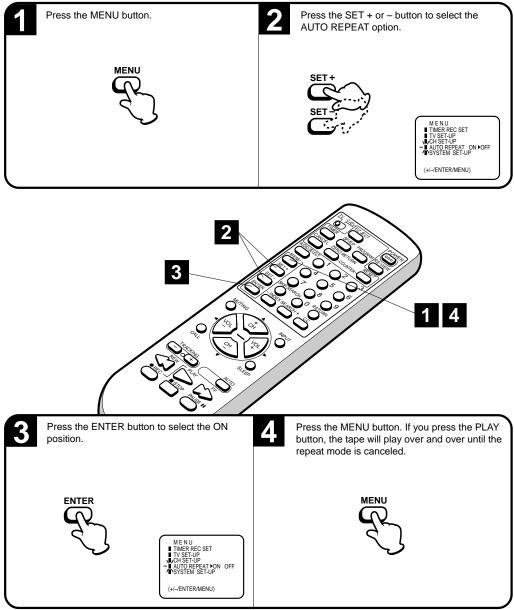
When either the FF or REW button is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed twice, the search picture will increase speed. Speed search time depends upon the speed used (SP or EP) during recording. See chart below.

To rewind or fast forward a tape, press the STOP button, and then press the REW or FF button.



- The audio output is muted during Speed Search and Still.
- A few noise bars will appear on the TV screen during Speed Search and Still.
- To prevent damage to the tape, Still and Speed Search mode is automatically changed to the Playback mode after 5 minutes.
- 38

### TO WATCH A TAPE REPEATEDLY



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

• The repeat function is canceled automatically when the unit is switched off or the tape is ejected.

### SKIP SEARCH

Each time you press the SKIP SEARCH button while a tape is playing, the unit will fast-forward ahead 30 seconds on the tape. You may press the button up to six times in a row to move 360 seconds (three minutes) ahead. For example: 1 press: 30 seconds of tape 2 presses: 60 seconds of tape SKIP SEARCH 3 presses: 90 seconds of tape Ć EZ JECT **RE-VIEW** Pressing EZ JECT button automatically rewind and Press the RE-VIEW button after the timer recording. ejects the video cassette in the unit. This unit will automatically locate the first recorded program by the timer recording, and start playback. EZ JECT RE-VIEW • If you operate the VCR after the timer recording, this function does not work.

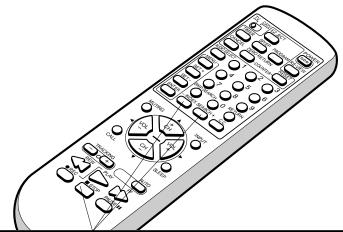
## VIDEO INDEX SEARCH SYSTEM (INDEX SEARCH)

The VIDEO INDEX SEARCH SYSTEM (INDEX SEARCH) enables you to locate the beginning of any recording made on the VCR.

#### RECORDING AN INDEX MARK

The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated.





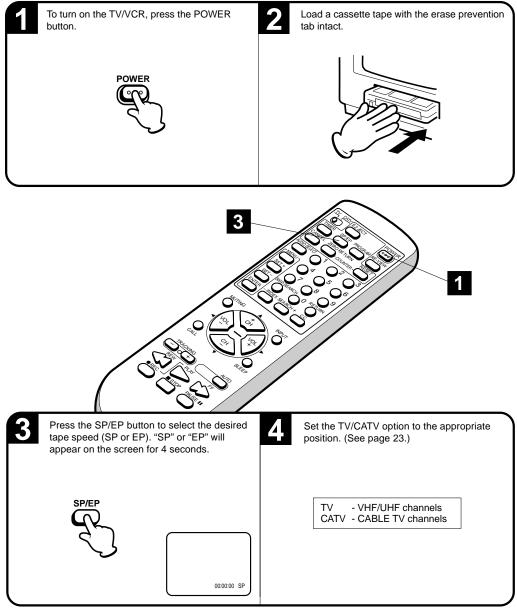
#### INDEX SEARCH

Press the INDEX SEARCH + or – button during stop or play mode. FOR SUCCEEDING PROGRAMS: Press the INDEX SEARCH + button. FOR PRECEDING PROGRAMS: Press the INDEX SEARCH – button. (Additional press increases the INDEX NO. up to 9.) The INDEX SEARCH + or – button is pressed, the unit starts searching the INDEX NO. selected and finds the portion, then playback starts automatically. TO STOP THE INDEX SEARCH, press the STOP button on the remote control or STOP/EJECT button on the unit. -INDEX SEARCH+ -

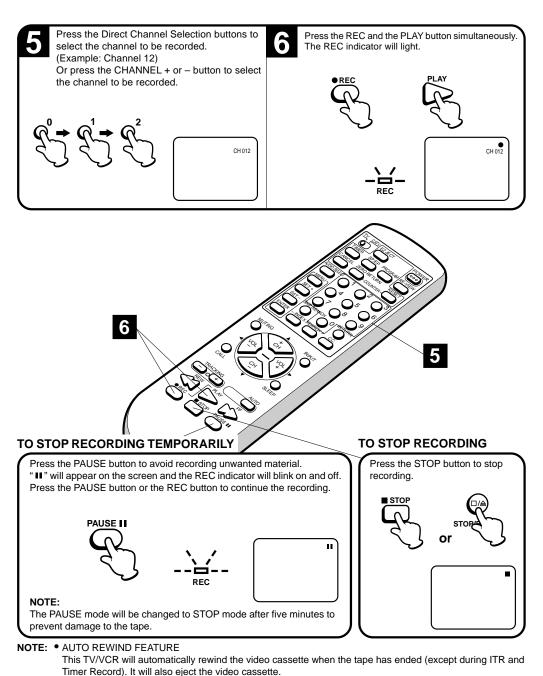
NOTES: • When you recorded an INDEX mark at the very beginning of the tape, the mark may not be found.

- 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.
- INDEX mark may not be found if it is extremely close to the point where the search began.
- In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.
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### **RECORDING AND VIEWING THE SAME TV PROGRAM**



- **NOTE:** If power is switched off during recording, the TV set goes off and the VCR continues to record. Press the STOP button to halt the recording and turn off the VCR.
  - The TV/VCR Channel cannot be changed during recording.



 If the erase prevention tab is removed, the tape will eject when both the REC button and PLAY button are pressed for recording.

### **INSTANT TIMER RECORDING (ITR)**

The Instant Timer Recording feature provides a simple and convenient way to make a timed recording.

EXAMPLE: Instant timer recording for 30 minutes.



NOTE: • Press both the REC button and the PLAY 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 Instant Timer Recording, press the STOP button.

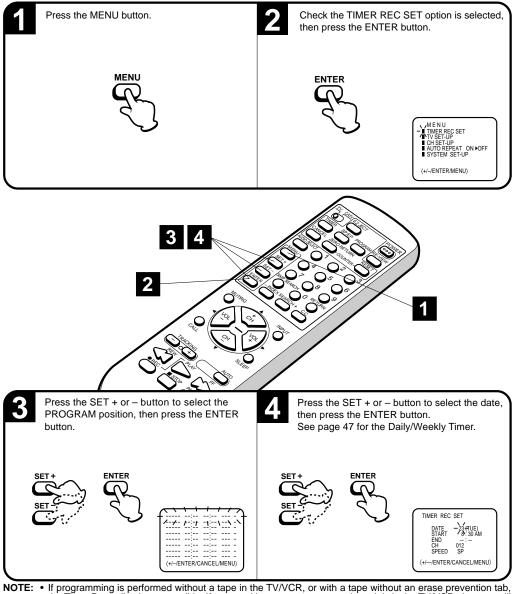
The TV/VCR channel cannot be changed during recording.

# TIMER RECORDING

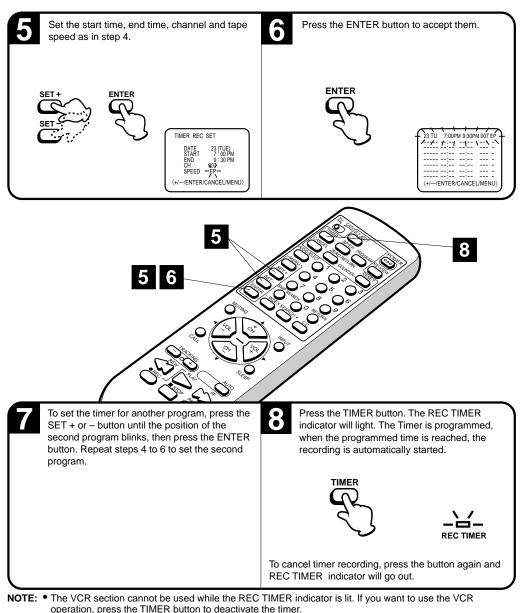
Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.

EXAMPLE: Program a timer recording for 23rd. day, channel 007 (CATV), 7:00 - 9:30 PM (Tape speed : EP)

- Load a video cassette with the erase prevention tab intact. The TV/VCR will automatically turn on.
- Set the TV/CATV selection to the appropriate position. (see page 23.)
- See page 9 and 10, REMOTE CONTROL Operation.



- the Timer Recording is not possible. If a tape without an erase prevention tab is in the TV/VCR, the tape will be ejected.
  - To record from the external equipment press the SET + or button repeatedly until "L" (LINE) appears when setting the channel in step 5.
  - When the clock is not set, you can not select the TIMER REC SET option. In this case set the clock (see page 15-17).
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- After a power failure or disconnection of the power plug, all programmed recording setting and time display will be lost upon resumption of power. In this case, reset the clock (see pages 15-17.) and reprogram any timer recordings.
- If you want to correct the digits while setting, press the CANCEL button until the item you want to correct, the wine Schultmans correct line and bounded.

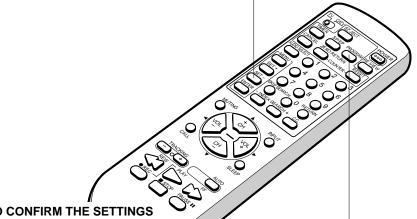
### OTHER FUNCTIONS FOR THE TIMER RECORING

### TO SET DAILY/WEEKLY TIMER

When setting the date in the step 4 on page 45, press the SET – button repeatedly when the current day is displayed.

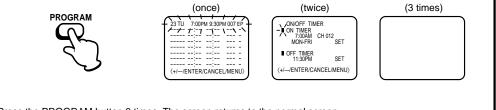
The setting changes as follows:

Example	The current day (Friday) →	SUN-SAT (Sunday to Saturday)
	One month later minus one day ↑	MON-SAT (Monday to Saturday) ↓
	WKL-WED (Weekly Wednesday)	MON-FRI (Monday to Friday) ↓
	WKL-TUE (Weekly Tuesday)	WKL-THU (Weekly Thursday) ↓
	WKL-MON (Weekly Monday) ↑	WKL-FRI (Weekly Friday) ↓
	WKL-SUN (Weekly Sunday)	WKL-SAT (Weekly Saturday)



TO CONFIRM THE SETTINGS

Press the PROGRAM (PROGRAM CONFIRM) button once. The TV screen displays the timer program list. Press the PROGRAM button again. The TV screen displays the ON/OFF timer setting.

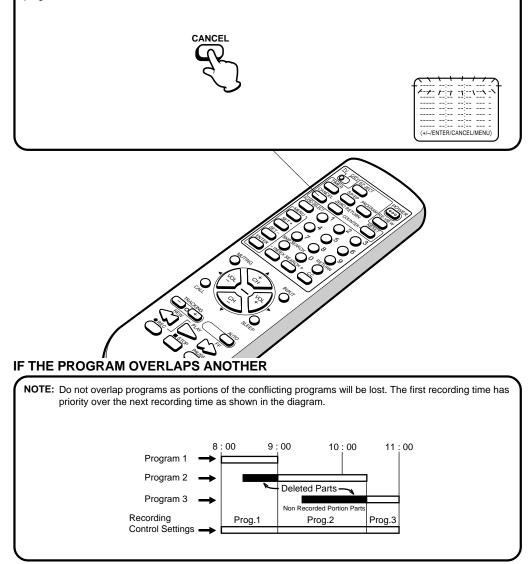


Press the PROGRAM button 3 times. The screen returns to the normal screen.

- NOTE: 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.
  - You can correct or cancel the programmed setting in program confirm mode.

### **TO CANCEL A PROGRAM**

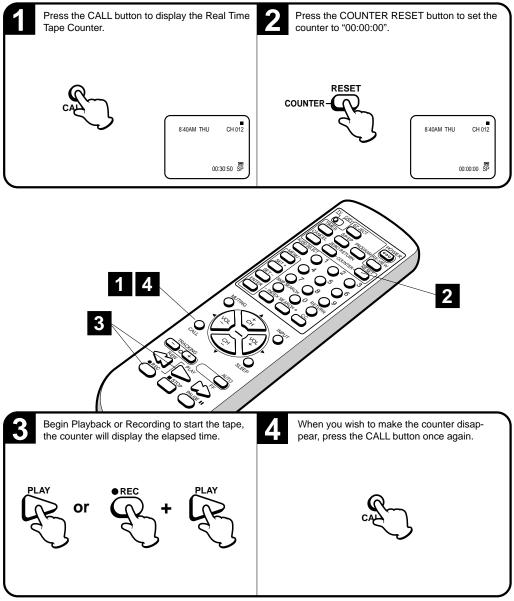
Press the SET + or – button to select the TIMER REC SET option in the MENU, then press the ENTER button. Press the SET + or – button to select the unnecessary program, and press the CANCEL button to cancel the program.



# USING THE REAL TIME TAPE COUNTER

The On-Screen Real Time Tape Counter shows the tape running time in Hours, Minutes and Seconds. You can easily determine how long the tape has been running or how much time is left on the tape.

### TO VIEW THE COUNTER DISPLAY

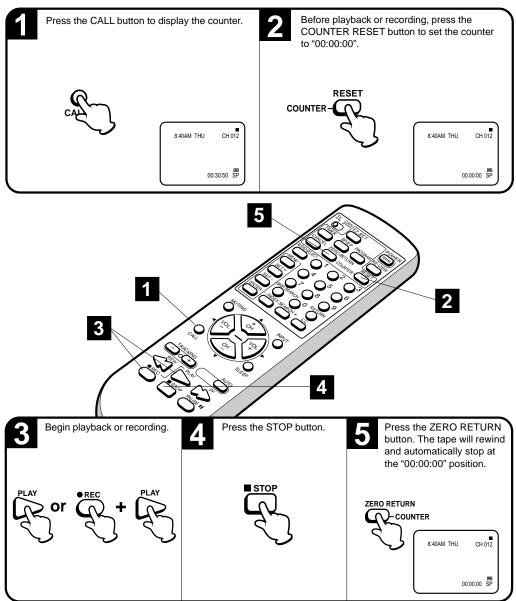


NOTE: • If you rewind the tape from "00:00:00", a minus sign ("-") will be displayed in front of the time.

- When you load a tape, the counter will reset 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.

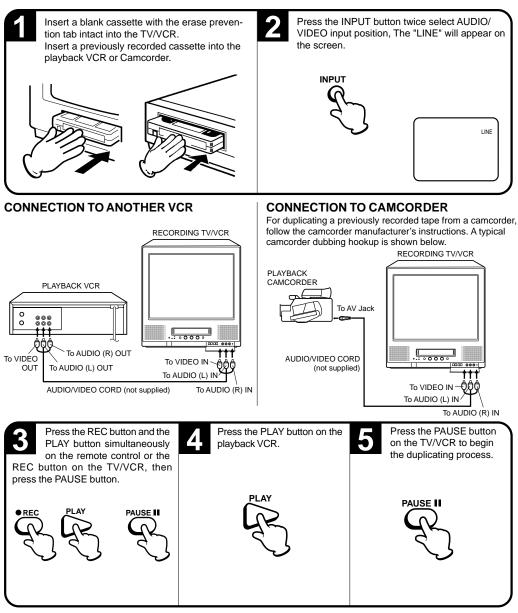
# **USING ZERO RETURN**

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 COUNTER RESET button and COUNTER ZERO RETURN button.



# **DUPLICATING A VIDEO TAPE**

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



- NOTE: It is recommended that the tape speed be set to the SP mode on the TV/VCR for best results.
  - Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

## TROUBLESHOOTING GUIDE

### Check the following chart before requesting service.

SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE		
POWER					
No power.	The AC power cord is not connected.	Connect the AC power cord to the AC outlet.	7		
Although the power is on,	Cassette is not inserted.	Insert a video cassette.	35		
the TV/VCR does not operate.	TIMER button is depressed.	Press the TIMER button.	46		
TV BROADCAST RECEPT	ION	1			
	TV station experiencing problems.	Try another channel.	18		
	Picture control is not adjusted.	Check picture control adjustments.	30, 31		
Poor or no picture.	Possible local interference.	Check for source of reception disturbance.	54		
	Antenna (CATV) connector is not connected or possible local interference.	Check CATV connection or VHF/UHF antenna, reposition or rotate antenna.	12, 13		
	TV station experiencing problems.	Try another channel.	18		
	Picture control is not adjusted.	Check picture control adjustments.	30, 31		
Poor or no color.	Possible local interference.	Check for source of reception disturbance.	54		
	Antenna (CATV) connector is not connected or possible local interference.	Check CATV connection or VHF/ UHF antenna, reposition or rotate antenna.	12, 13		
	TV station experiencing problems.	Try another channel.	18		
Picture wobbles or drifts.	Antenna (CATV) connector is not connected or possible local interference.	Check CATV connection or VHF/ UHF antenna, reposition or rotate antenna.	12, 13		
	Cable TV channel is scrambled.	Try another channel.	18		
	CATV connector is not connected.	Check all CATV connections.	13		
No CATV reception.	TV/CATV Mode menu option is set to the TV mode.	Set the TV/CATV Menu option to the CATV mode.	23		
	Cable TV service interrupted.	Contact your Cable TV company.	13		
No reception above	TV/CATV Mode menu option is not set to the appropriate mode.	Make sure TV/CATV menu option is in the appropriate mode.	23		
channel 13.	UHF antenna is not connected.	Check UHF antenna.	12		
	TV station experiencing problems.	Try another channel.	18		
Poor or no sound.	Antenna (CATV) connector is not connected or possible local interference.	Check CATV connection or VHF/ UHF antenna, reposition or rotate antenna.	12, 13		
	Possible local interference.	Check for source of reception disturbance.	54		
	MUTING button is depressed.	Check that MUTING button has not been pressed.	19		

SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE	
	TV station stopped broadcasting.	Tune new channel.	18	
TV shuts off.	Sleep timer is set.	Set Sleep Timer to "0".	20	
	TV station experiencing problems or program tuned is not closed captions.	Try another channel.	18, 20	
Closed caption is not activated.	TV signal is weak.	Check CATV connection of VHF/ UHF antenna, reposition or rotate antenna.	12, 13	
	The TV/CAP/TEXT button is not depressed.	Press the TV/CAP/TEXT button to turn on the closed caption.	20, 21	
RECORDING	•			
TV recording does not work.	The video cassette's erase preven- tion tab is broken off.	Place a piece of vinyl tape over the hole.	35	
	The time is not set correctly.	Reset the present time.	15-17	
Timer recording does not	The recording start/end time is not set correctly.	Reset the start/end time.	45, 46	
work.	The TIMER button has not been pressed (the REC TIMER indicator is not lit.).	Press the TIMER button (the REC TIMER indicator is lit.).	46	
PLAYBACK	-	1		
	Tape is old or worn.	Replace the tape.	—	
Noise bars appear on the screen.	Tracking adjustment is beyond range of automatic tracking circuit.	Adjust tracking manually using the TRACKING + and – buttons on the remote control.	37	
	Video heads are dirty.	Clean the video heads.	55	
REMOTE CONTROL				
	The remote control is not aimed at the sensor.	Aim the remote control at the remote sensor.	10	
Remote control does	Distance is too far or too much light in the room.	Operate within 15 feet or reduce the light of the room.	10	
not operate.	There is an obstacle in the path of the beam.	Clear the path of the beam.	10	
	The batteries are weak.	Replace the batteries.	10	
	The batteries are not inserted correctly.	Insert correctly.	10	
MENU	1	1	1	
Can not select MENU OPTION.	Before setting the clock, you can operate only 3 Menu options, CLOCK SET/LANGUAGE/AUTO CLOCK.	Set the clock.	15, 17	

53

# **RECEPTION DISTURBANCES**

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown below. If one of these symptoms appear when the TV/VCR is connected to a Cable TV system, the disturbance may be caused by the local Cable TV company broadcast.

### IGNITION

Black spots or horizontal streaks may appear, the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps or AC powered tools and appliances such as drills or hair dryers.

### GHOSTS

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.

### SNOW

If the TV/VCR is located far from the TV station, in a fringe reception area where the signal is weak, small dots may appear in the picture. If the signal is extremely weak, the installation of a larger external antenna may be necessary.

### **RADIO FREQUENCY INTERFERENCE (RFI)**

Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.

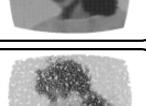
### PICTURE SIZE VARIATION

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS settings.

### CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect the TV/VCR from the AC power source before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft, damp cloth and cared for as other furniture. Use caution when cleaning or wiping the plastic parts.











## VIDEO HEAD CLEANING

### VIDEO HEAD CLOGGING

The video heads are the means by which the TV/VCR reads the picture 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, use a high quality head cleaning system or have them cleaned professionally.



Good Picture



**Snowy Picture** 

### VIDEO HEAD CLEANING

Video head cleaning is needed when the playback picture becomes unclear. This signifies that the heads are getting dirty and can occur when playing poor quality or damaged tapes. If the heads require cleaning, use a equivalent high quality chemical non-abrasive (wet) head cleaning tape or have them cleaned professionally. If playing a head cleaning tape in the VCR once does not improve the picture, play it several times before requesting service.

- **NOTE: •** DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
  - 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.

# NOTES

### Auto Clock Setting

Notes for Canadian customers regarding the clock feature of the TV-20F243:

The XDS signals are carried only by certain broadcast television stations (for example, the signal is carried by most Public Broadcasting Service stations). You must be able to receive a station carrying the XDS signal to use the Auto Clock Setting to set your TV/VCR's internal clock. If you live in an area that does not broadcast XDS signals, you must set the clock manually. Please see page 16 for instructions on how to manually set your TV/VCR's clock.

### Special note for residents of Newfoundland:

The Auto Clock Setting cannot be used to set the TV/VCR's internal clock to Newfoundland time. The time zone command does not include a setting for the Newfoundland time zone. Trying to use the Auto Clock Setting in the Newfoundland time zone could result in an incorrect time setting or no setting at all. Please set your TV/VCR's clock using the Manual Clock Setting.

### SPECIFICATIONS

### TELEVISION

Picture Tube: Tuner Type: Receiving Channels:

Antenna Input: Speaker: Audio Output Power:

### VCR

Video System: Video Signal: Cassette Tape: Audio Track:

Tape Speed: F.FWD/REW Time at 25°C:

### GENERAL

Power Source: Power Consumption: Dimensions: Weight: Inputs:

Phone Jack:

### Accessories:

Remote Control Batteries (AA) X 2

Specifications are subject to change without notice.

20" (measured diagonally) Quartz PLL Frequency Synthesized VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A) VHF/UHF In 75 ohms coaxial 3". 8 ohms x 2 1.5+1.5W

VHS, 4 Rotary Heads Helical Scanning System NTSC Color VHS Hi-Fi Sound - 2 Tracks MONO Sound - 1 Track SP/EP F.FWD: Approx. 4 minutes and 50 seconds REW: Approx. 2 minute and 30 seconds (T-120 Cassette)

AC 120V 60Hz 110 Watts W 19-3/4" x D 18-15/16" x H 20-3/16" 58.5 lbs/26.5kg Video: In (RCA) 1Vp-p 75 ohm Audio: In (RCA) –8dB/50k ohm 3.5mm mini-jack

### **MEMO**

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