

Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included. (Guía para rápida consulta en español está includo.)

Quick Use Guide is on the back cover.

# Things You Should Know

# **Congratulations**

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information at right. The serial number is on the tag located on the back of your VCR.

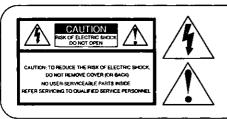
Date of Purchase
Dealer Purchased From
Dealer Address
Dealer Phone No
Model No. PV-8405S
Serial No

# Safety Precautions

# Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the WHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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# M Important Safeguards and Precautions

FOR YOUR SAFETY, READ AND RETAIN ALL SAFETY AND OPERATING IN-STRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON THE UNIT

### INSTALLATION

#### POWER SOURCE CAUTION 1

Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

#### 2 POLARIZED OR GROUNDING PLUG

As a safety feature, this Video product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

#### POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

#### **GROUNDING PLUG CAUTION:**

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

#### POWER CORD 3

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic.

If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected.

Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician.

Overloaded outlets and extension cords are fire hazards and should be avoided.

#### DO NOT BLOCK VENTILATION HOLES 4

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection, follow these rules:

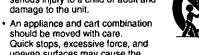
- a. Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- b. Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

#### 5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN **TEMPERATURE CHANGES**

Do not place the unit over or near any kind of heater or regulator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

#### 6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping. surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.



Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

#### OUTDOOR ANTENNA INSTALLATION

SAFE ANTENNA AND CABLE CONNECTION 1 If an outside antenna or cable system NEC - NATIONAL ELECTRICAL CODE is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some GROUND protection against built up static charges and voltage surges. Section 810 of the National ELECTAR Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) 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.

ELECTRODE SYSTEM

#### 2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES **OR CIRCUITS**

An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

#### USING THE VIDEO UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards.

- KEEP THIS VIDEO UNIT AWAY FROM WATER OR 1 MOISTURE OF ANY KIND.
- 2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a gualified service technician before use.

#### **3 DURING AN ELECTRICAL STORM**

During a lightning storm, whether indoors or outdoors, or before teaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

#### WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water: DO NOT OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

#### **5 USING ACCESSORIES**

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

#### **CLEANING THE UNIT** 6

Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

#### SERVICE

DO NOT SERVICE THIS PRODUCT YOURSELF 1

If, after carefully following the detailed operating instructions, this Video product does not operate property, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

#### 2 IF REPLACEMENT PARTS ARE REQUIRED

Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety characteristics as the original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

#### 3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

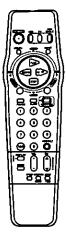
After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.

# **Unpacking Your VCR • Product Features**

# **Unpacking Your VCR**

The accessories below are provided to help you use or set up your VCR.

# Accessories



Remote Control VSQS1560



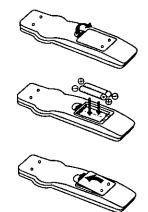
) 2 "AA" ) Batteries



RF Coaxial Cable VJAS0196

# Loading the Batteries

- 1 Press in and up on the latch with your thumb nail and lift off the lid.
- 2 Install two batteries as indicated inside the Battery Compartment.
- **3** Fit the lid's hinge piece into the indent on the case, and snap the lid into place.



#### **Battery replacement caution**

- Do not mix old and new batteries.
- · Do not mix alkaline with manganese batteries.

# **Product Features**

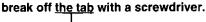
Auto Clock Set12 ~ 14Auto Daylight Saving Time5Auto Features for a Quality Picture16Auto Operation Functions (Auto Playback, Rewind, Tape Eject, Power off)21Auto Repeat Function22Digital Auto Picture16Easy-to-Read English/ Spanish/ French On-Screen Displays12 ~ 14, 18, 19Head Cleaner5Multi Brand TV/ Cable Box/ DSS Remote Control24, 25One Minute Skip22One Month, 8 Program Timer Recording18, 19One Touch Recording (OTR)17Program Director Remote Control18, 19Special Effects Playback16Special Effects Playback16Special VCR Features (VCR Lock, Blue Back ON/OFF, Warning Beeper)26Timer Recording Using VCR Buttons19VHS Index Search System (Direct Access Search, Index Scan Search)20, 21Zero Search22	All Channel Auto Set/ 181-CH TV/ CABLE Tuner	12 ~ 14
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VHS Index Search System (Direct Access Search, Index Scan Search)	Special VCR Features (VCR Lock, Blue Back ON/OFF, Warning Beeper)	
	Timer Recording Using VCR Buttons	19
Zero Search 22	VHS Index Search System (Direct Access Search, Index Scan Search)	20, 21
	Zero Search	22

# **VCR and Cassette Information**

# **Erase Protection (Record Tab)**

Cassettes have a record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure, break off the tab with a screwdrive





To record again, cover the hole with <u>cellophane tape</u>.



# Maximum Record/Playback Time

Only use tapes with the VHS mark in this unit.

Tape Speed	Type of Video Cassette		
Setting	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

# **Build-in Head Cleaner**

A clean video head helps produce a clear picture. So, we have equipped your VCR with a built-in, non chemical head cleaning system that helps prevent clogging of the video heads. Cleaning is performed each time you load or unload a video cassette.

Note: This feature is preventative only. If your video heads are seriously clogged, consider the use of a chemical nonabrasive head cleaning kit or take your VCR to a Service Center.

# **Head Cleaning**

Your VCR will not normally require head cleaning, however, the heads may become clogged when playing an old or damaged tape.

### Video Heads Sensor System

If head cleaning becomes necessary, the VCR will display the screen shown to the right while playing back a Video Tape. To exit this screen, push PLAY on the remote control or VCR.

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL

END: PLAY KEY

- Use "dry" type head cleaning cassette\* only.
- Be sure to follow the cleaning tape instructions carefully. Excessive use of a cleaning cassette can shorten head life.
- If using a head cleaning cassette does not solve the problem, contact your nearest Factory Service Center or authorized Service Center.
- \* Cleaning cassette part No. NV-TCL30PT is recommended.

# **Reset all VCR Memory Functions**

Use when moving the VCR to a new location, or if a mistake was made in the One Time VCR Setup section. • Make sure a tape is not inserted in the VCR.

- 1) Turn VCR Power on.
- Press and hold both PLAY and CHANNEL 
   on the VCR for more than 5 seconds.
   • The power will shut off.
- 3) Perform the One Time VCR Setup section on page 12.

## D.S.T. (Daylight Saving Time)

Your VCR can be set to automatically adjust the clock for Daylight Saving Time. (Page 13.)

#### Spring (First Sunday in April)

When set to DST:ON, the VCR will automatically set the clock ahead one hour.

#### Autumn (Last Sunday in October)

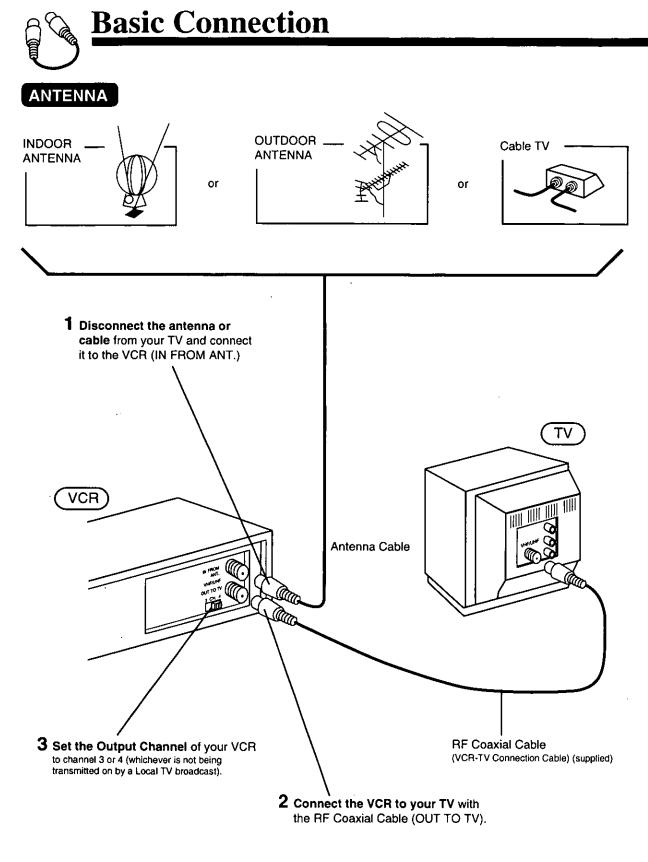
When set to DST:ON, the VCR will automatically set the clock back one hour.

- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming the VCR for timer recordings.

## Specifications

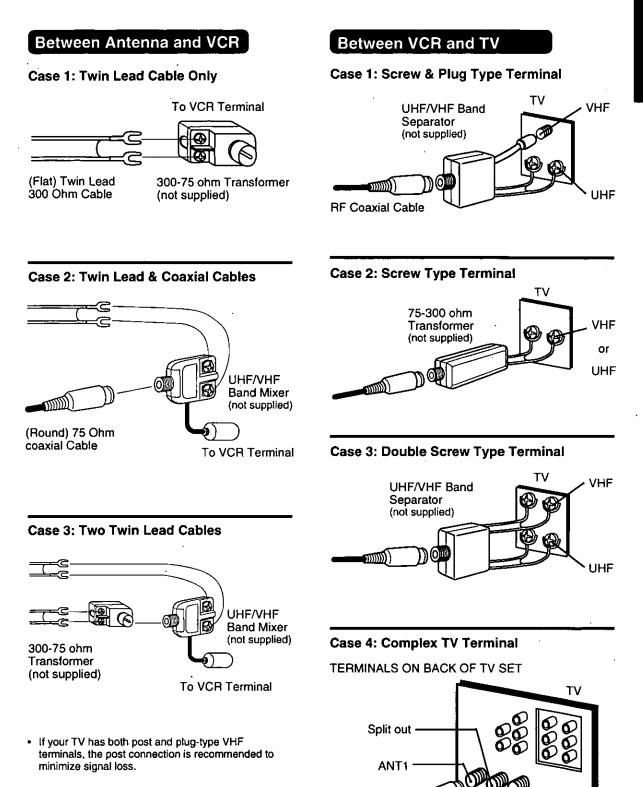
Power Source: Power Consumption:	120V AC, 60 Hz Approx. 18 watts (Power on) Approx. 3.5 watts (Power off)
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical scanning system
Audio Track: Tuner:	1 track (Normal)
Broadcast Channels:	VHF 2~13, UHF 14~69
CABLE Channels:	Midband A through I (14-22) Superband J through W (23-36) Hyperband AA-EEE (37-64) Lowband A-5-A-1 (95-99) Special CABLE channel 5A (01) Ultraband 65-94, 100-125
Operating Temperature: Operating Humidity: Weight: Dimensions:	41°F~104°F (5°C~40°C) 10%~75% 7.5 lbs. (3.4 kg). 14-15/16" (W) x 3-2/3" (H) x 12-3/16" (D) 380 (W) x 93 (H) x 310 (D) mm

Note: Designs and specifications are subject to change without notice.



#### WARNING

When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.



7

ANT2

Connect to one of the ANT terminals and select the

same antenna number on the TV.

# **Other Connections**

# **CABLE** Connections

All connections on these pages are made with 75 Ohm coaxial cables.

Cable TV

IN FROM

A/B Switch

OUT

CABLE

Converter Box

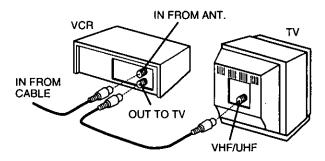
## Without a Converter/Descrambler Box

You can:

- Use your VCR Remote Control to select channels. 1)
- 2) Program one or more unscrambled channels for unattended recording.

You cannot:

record or view scrambled channels with this connection.



IN FROM ANT

OUT TO TV

VHF/UHF

IN FROM ANT.

τv

τv

# With a (CABLE to VCR) Converter/Descrambler Box

#### You can:

- Record and view any channel including scrambled channels; channel selection must be made at the Cable TV Converter Box.
- 2) Program one channel for unattended recording.

#### You cannot:

select channels from VCR or TV.

watch one station while recording another.

place channels in memory (pg. 12) other than the cable box output channel.

# With a (VCR to TV) Converter/Descrambler Box

#### You can:

- 1) Use your VCR Remote Control to select channels.
- 2) Program unattended recordings of more than one unscrambled channel.

You cannot:

If you want to record and

view a combination of

unscrambled channels,

you will need additional

This connection requires two converter boxes, an

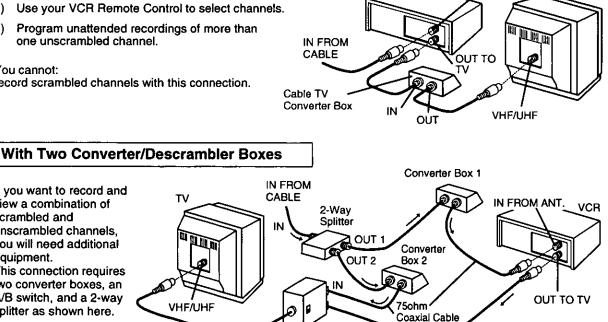
A/B switch, and a 2-way

splitter as shown here.

scrambled and

equipment.

record scrambled channels with this connection.

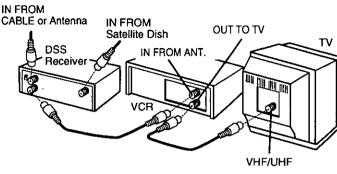


VCR

## With a DSS Receiver

You can:

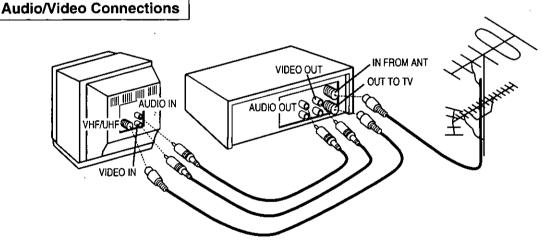
- 1) Record and view any channel including scrambled channels; channel selection must be made at the DSS Receiver.
- Program one channel for unattended recording.
- NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.



\*\*DSS<sup>®</sup> is a registered trademark of DIRECTV, INC., a unit of GM Hughed Electronics.

### **Audio/Video Connections**

If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive a higher quality picture and sound. If your TV is not stereo, you can connect a stereo amplifier to the VCR to enjoy stereo sound.



- 1 Connect the VIDEO OUT terminal on the VCR to the VIDEO IN terminal of your TV.
- 2 Connect the AUDIO OUT terminals on the VCR to the AUDIO IN terminals of your TV.

3 Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

NOTE: To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO."

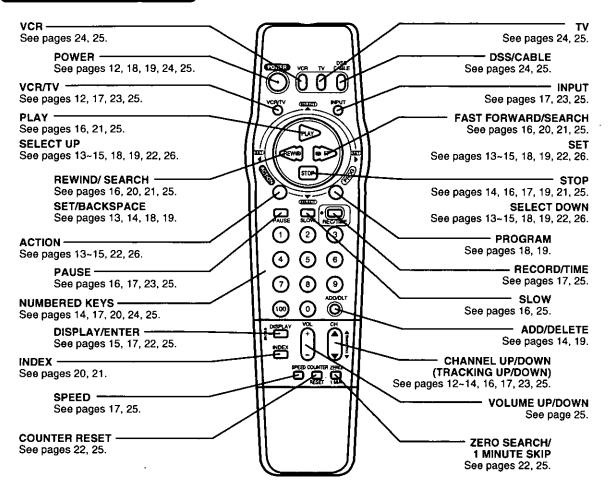
#### Note to CABLE system installer:

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) 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.

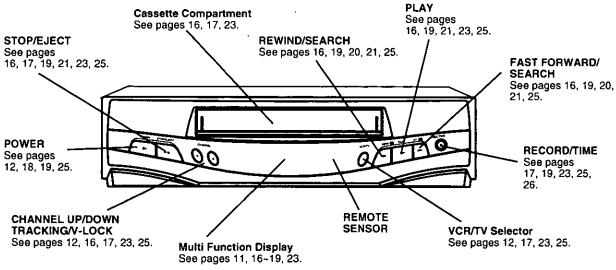


# **Location of Controls**

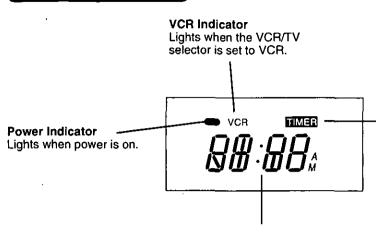
## **Remote Control Buttons**



### Front View of the VCR



## Multi Function Display



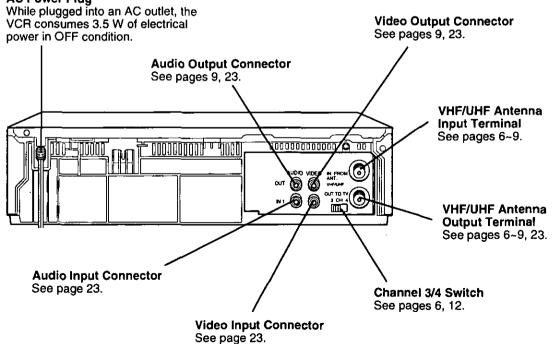
Timer Indicator

Lights when the VCR is set for a Timer Recording, or when a length is set for a normal recording (OTR). Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.

Clock/ Status/ Channel/ Speed Display Displays the current time. Briefly displays VCR status when a function button is pressed. Briefly displays the channel number, or "L" when a channel or line input is selected. Briefly displays the recording speed when SPEED is pressed.

## Rear View of the VCR

#### AC Power Plug





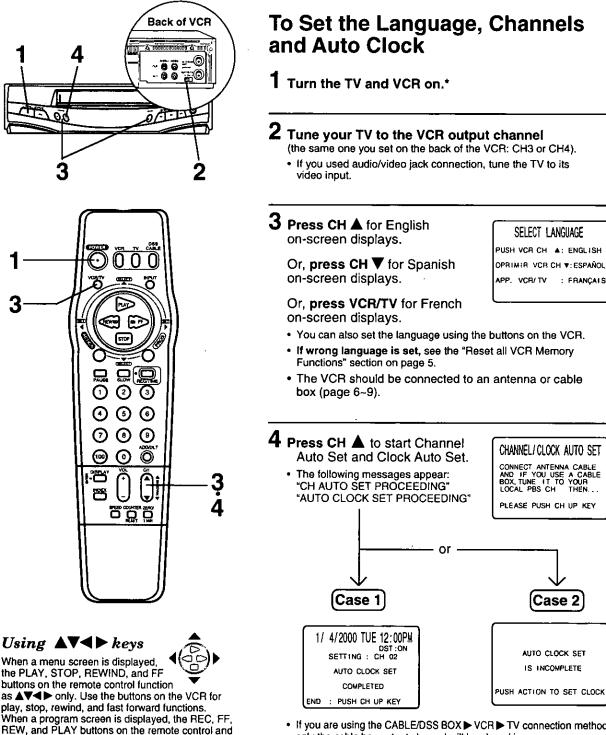
# **One Time VCR Setup**

\*Important: If the remote control POWER, ACTION, PROG, CH▲/♥, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

When the VCR is turned on for the first time, it automatically enters the setup mode.

Setup includes the following:

- Choose the language for on-screen menus and messages. •
- Tell the VCR how your equipment is hookup (pages 6~9) so the VCR can correctly place channels into memory.
- Get the VCR ready for clock set.



 If you are using the CABLE/DSS BOX ► VCR ► TV connection method. only the cable box output channel will be placed in memory.

the VCR function as ▲▼◀► only. (See Timer Recording Using VCR Buttons on page 19.)

Case 1

If the displayed time is correct, press CH  $\blacktriangle$  to exit.

- This concludes one time VCR setup.
- · See important note at the bottom of this page.

If the displayed time and DST. are not correct...

If you happen to live close to two time zones, the VCR may have recognized the PBS channel (setting channel) in the wrong time zone. Please do the following to correct the situation.

- a Make a note of the SETTING:CH number shown on-screen and press CH ▲ to exit.
- b Delete the setting channel from the VCR channel memory. (See "To Add or Delete a Channel" section on page 14.)
- c Press ACTION to display the menu.
- d Press ▲▼ to select "SET CLOCK," and then press ▶ to display the "SET CLOCK" screen.
- e Press ▲▼ to select "AUTO CLOCK SET," and then press ► to display the "CLOCK AUTO SET" screen.
- f Press CH A to start Clock Auto Set.
  - If you use a cable box and have multiple PBS stations, tune the cable box to a different PBS station and try auto clock set using the menu.

## Case 2

If the screen above appears, auto clock set is not available in your area. Please set the clock manually as described below.

- a Press ACTION to display the "SET CLOCK" screen.
- b Press ▲▼ and ◀► to select and set the month, date, year, time, and DST. (Daylight Saving Time).
  - th, SST. → KEY ENO :ACTION KEY ). • See page 5 for more on DST.

SELECT MONTH

1/-

To Make Corrections,

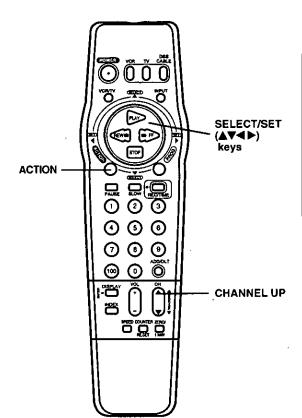
repeatedly press ◀▶ to move the cursor to the incorrect entry and make the correction.

c Press ACTION twice to start the clock and exit this mode.



1/-- SET CLOCK -----

DST:ON

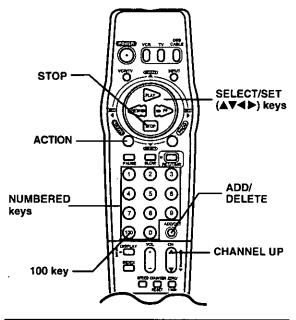


### IMPORTANT NOTE FOR AUTO CLOCK SET

- Auto clock set will be performed when the VCR is turned off the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on and tuned to the PBS channel before the VCR power is turned off.
- If you use a DSS receiver, it must be turned off for auto clock set.
- If you use Audio/Video Jack connection between the VCR and Cable Box or DSS receiver, you must also connect the RF coaxial cable in order to use the auto clock set and channel auto set features.

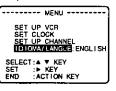
# **One Time VCR Setup**

\*Important: If the remote control POWER, ACTION, PROG, CH▲/♥, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



# To Change On-Screen Display Language

- 1 Press ACTION to display the menu.
- 2 Press ▲▼ to select the language. English: LANGUAGE Spanish: IDIOMA French: LANGUE



3 Press ► repeatedly to change the language.



4 Press ACTION to exit this mode.

# To Add or Delete a Channel

- Select a channel using the NUMBERED keys to add or CH ▲/▼ to delete.
- 2 Press ADD/DLT to add or delete the channel.
  - To select a channel once it's deleted, use the NUMBERED keys on the remote control.



# To Replace Channels in Memory

In case you have cable installed, etc.

- 1 Press ACTION\* to display the menu.
- 2 Press ▲▼ to select "SET UP CHANNEL," and then press ▶ to display the "SET UP CHANNEL" screen.
- 3 Press ▲▼ to select "ANTENNA," and then press ► to set your antenna system (TV or CABLE).
- 4 Press ▲▼ to select "AUTO SET," and then press ▶ to display the "CHANNEL CLOCK AUTO SET" screen.
  - If you use a cable box, turn it on and set it to the PBS channel in your time zone.
  - To exit this mode, press ACTION twice.
- 5 Press CH ▲ to start Channel Auto Set.

MENU ------SET UP VCR SET CLOCK SET CLOCK TO TOMAY LANGUE: ENGLISH SELECT: A V KEY SELECT: A V KEY END : ACTION KEY

SET UP CHANNEL	
ANTENNA : CABLE Auto set	
SELECT: A V KEY	
SET :▶ KEY END :ACTION KEY	

CHANNEL/CLOCK AUTO SET
CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN PLEASE PUSH CH UP KEY

----- MENU -----

SET LIP VCA SET CLOCK SET UP CHANNEL IDIOMA/LANGUE:ENGLISH

AUTO CLOCK SET

SET CLOCK H

1/ 4/2000 TUE 12:00PM

---- SET CLOCK -----

SELECT:▲▼ KEY SET :► KEY END :ACTION KEY

SELECT:▲ ▼ KEY SET : ◀ ► KEY END :ACTION KEY

SELECT HOUR

 Clock Auto Set will be performed when channels are replaced in memory. To cancel, press STOP when "AUTO CLOCK SET PROCEEDING" appears on-screen.

### To Set or Reset the Clock

In case the clock is wrong, or a power failure occurred.

- 1 Press ACTION to display the menu.
- 2 Press ▲▼ to select "SET CLOCK," and then press ► to display the "SET CLOCK" screen.
- 3 Press ▲▼ to select
   "MANUAL," and then press
   ▶ to display the SET
   CLOCK screen.
- 4 Press ▲▼ and ◀► to select and set the date, time and DST. (Daylight Saving Time).
- 5 Press ACTION twice to start the clock and exit this mode.
- For Auto Clock Set, select "AUTO CLOCK SET," and then press CH ▲ in step 3.

## When Using the 100 key

When selecting CABLE channels 100 to 125 with the NUMBERED keys, first press the 100 key and then enter the remaining two digits. For example, to select channel 125: Press NUMBERED keys 100, then 2, then 5.

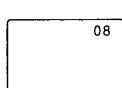
This VCR will accurately maintain its calendar up to Dec. 31, 2096, 11:59PM.
Normal TV or Cable channels are automatically selected and placed in memory depending on how your VCR is hooked up.

NOTES

# **On-Screen Displays (OSD)**

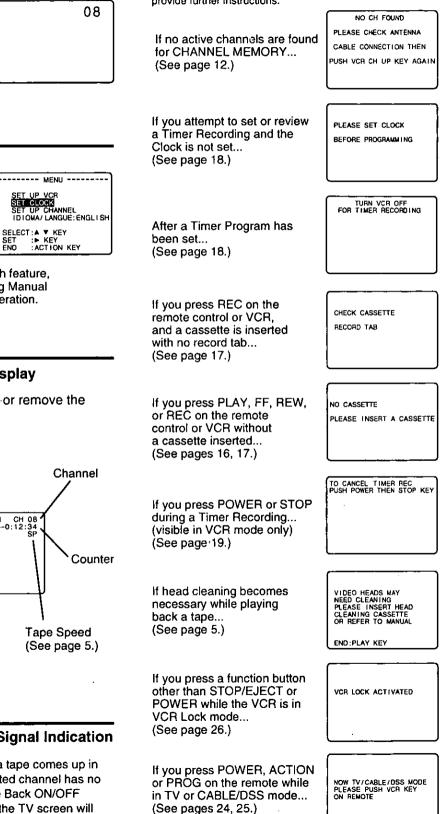
# **Function & Channel Display**

When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters.



# Warning and Instruction Displays

These displays will alert you of a missed operation or provide further instructions.



### Menu Screen

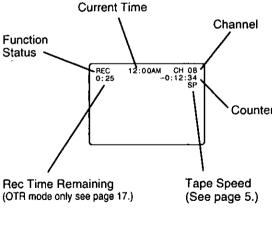
1 Press ACTION to display the menu.

2 Press AV and b to make your selection.

> To get the most from each feature, please read the Operating Manual before attempting any operation.

## VCR Status & Clock Display

Press DISPLAY to display or remove the overlay shown below.



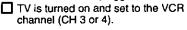
# Blank Tape/ No Video Signal Indication

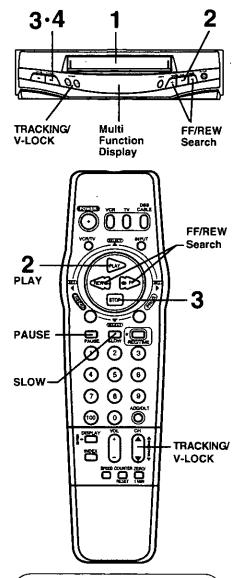
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Blue Back ON/OFF Feature (page 26) set to ON, the TV screen will turn solid blue.

# Playback a Tape

\*Important: If the remote control POWER, ACTION, PROG, CH▲/♥, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

### Check list before you begin. All connections are made. (See pages 6~9.) TV and VCR are plugged in.





# Caution:

Please inspect your cassette tapes and remove any loose or peeling labels to prevent them from becoming jammed in your unit.



# 1 Insert a cassette.

VCR power comes on automatically.





Press PLAY on the remote or VCR to <u>start playback</u>.
Playback begins automatically if cassette has no record tab.

**3 Press STOP** on the remote or VCR to <u>stop playback</u>. • To rewind the tape, press REW.

**4** Press STOP/EJECT on the VCR to eject the cassette.
You may eject a cassette with power on or off.

# To Find a Particular Scene During Playback

Press REW or FF during playback to search for a scene.

- Search speed for SP mode tapes is 7 times and SLP mode tapes is 21 times the normal speed.
- Some noise bars will appear during search.

### **Special Effects During Playback**

These features work best in SP or SLP mode. The sound will be muted.

#### Slow Motion Playback

Press SLOW to start slow motion playback during playback. Press PLAY or SLOW to release.

#### Still (Freeze) Frame Picture

Press PAUSE to freeze and release the picture.

To reduce picture noise, first press SLOW. Then, use CH (TRACKING) ▲/♥\* to clear up the picture. Now, press PAUSE.

#### Frame by Frame Advance

In Still mode, hold down SLOW to advance the still picture one frame at a time. Press PAUSE to release.

## Features for a Quality Picture

#### **Digital Auto Picture**

This feature automatically controls the video output signal for less noise depending on the tape condition.

### **Digital Auto Tracking**

This feature continuously analyzes the signal and adjusts for optimum picture quality.

#### Manual Tracking Control (to reduce picture noise)

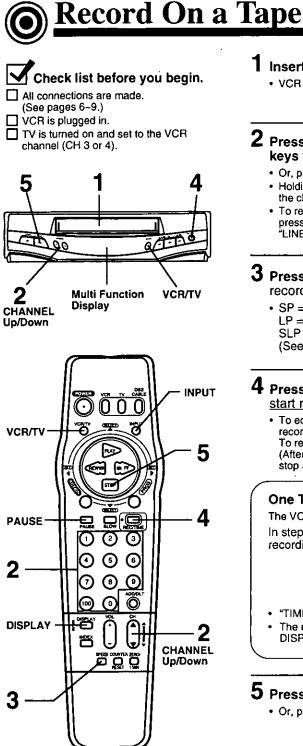
Use during Playback and Slow Motion mode to reduce picture noise. Press CH (TRACKING)  $\blacktriangle$ / $\nabla$  during playback until the picture clears up. To return to Auto Tracking mode, press POWER off and then on again.

### V-Lock Control (to reduce picture jitter)

In Still mode, CH (TRACKING) A/V operate as a V-Lock control. Press A/V until the picture is stabilized.

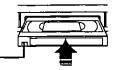
	NOTE
1	

 After the VCR is in Still or Slow mode for 3 minutes, it will switch to the Stop mode automatically to protect the tape and the video head.



### Insert a cassette with record tab.

· VCR power comes on automatically.



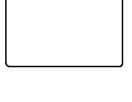
CH 0B

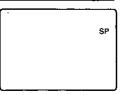
# 2 Press CH ▲/▼ or NUMBERED keys to select a channel.

- Or, press CHANNEL ▲/▼ on the VCR.
- Holding down CH ▲/▼ will increase the channel search speed.
- To record from an outside source, press CH ▲/▼ or INPUT to select "LINE" (see page 23).

# **3** Press SPEED to change the recording speed.

• SP = Standard Play , LP = Long Play SLP = Super Long Play (See page 5.)





#### 4 Press REC/TIME on the remote control or VCR to <u>start recording.</u>

- To edit out unwanted portions, press PAUSE to pause the recording in progress.
  - To release, press PAUSE again.

(After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.)

# One Touch Timer Recording (OTR)

The VCR starts recording and turns itself off at a preset time. In step 4, **press REC/TIME** repeatedly to set the length of the recording. Each press will change the stop time as shown.

- "TIMER" lights in the Multi Function Display.
- The remaining recording time can be displayed by pressing DISPLAY in OTR mode.

5 Press STOP to stop recording.

Or, press STOP/EJECT on the VCR.

### Record One Program While Watching Another

- 1 Press VCR/TV while recording is in progress to turn off the VCR indicator in the Multi Function Display.
- 2 Use the TV channel controls to select a program. The VCR will continue to record your program while you watch any channel you choose.
  - To switch back and forth between the recording and viewing channel, press VCR/TV.

## Selecting Channels at the VCR

- 1 Turn your TV and VCR on.
  - VCR Indicator lights on the Multi Function Display. If indicator doesn't light, press VCR/TV to turn it on.
- Use CH ▲/▼ on the remote control or VCR to select channels.
  - To switch back to TV channel selection, press VCR/TV to turn VCR indicator off, or simply turn the VCR power off.

\*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

program screen.

Press PROG\* to display the

If a program is already in memory, press AV

and ▶ to select an unused program number.

You can set up the VCR to record a one time, daily, or weekly program while you are away or otherwise occupied. Up to 8 programs can be stored in memory.

Timer Recording

# Check list before you begin.

All connections are made.

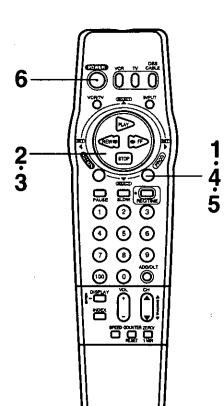
(See pages 6~9.) TV and VCR are plugged in and turned on.

VCR/TV selector is set to "VCR."

- Clock is set to correct time.
- Record tab in place. (See page 5.)
  - 00

Multi Function Display

6



- food+1 SELECT START DATE SELECT :▲ ♥ KEY 2 Press ▲▼ and ► to select and PROG KEY SET set one of the following as the DATE: 1~31 =One time recording DAILY =Same time MON~FRI WEEKLY (SUN~SAT) =Same time once a week ▶8—9……31— 1 — 2…… 6-Example SELECT / V Selection Order DAILY Today's Date WEEKLY WEEKLY WEEKLY (SAT) (MON) (SUN) Remaining Items to be set: Press  $\mathbf{A} \mathbf{\nabla}$  and  $\mathbf{A} \mathbf{P}$  START time to select and set each STOP time of the remaining CH(annel) number, or LINE items at right. for outside source recording Speed (SP, LP, SLP) **To Make Corrections** Repeatedly press ► to move the cursor to the right, or < to move to the left to the incorrect entry and make the correction. 4 Press PROG to end the program. P DT START STOP CH SPD 1DAY 9:00A12:00A 08 · This screen appears for confirmation. -- --;-- --;-- ---- --:-- --:---- -- -- -- --- ---CANCEL ADD/DLT KEY SELECT 1-8:▲ ▼ KEY ENTER :► KEY END :PROG KEY **To Enter More Programs** Press ▲▼ and ► to select and set a blank program number, and then repeat steps 2 and 3. 5 Press PROG to exit this mode. D Press POWER off to set the timer. When recording programs via a cable box. - TIMER make sure the cable box is left ON and 1 tuned to the desired channel.
  - Multi Function Display

QATEL START

7 FRI --:

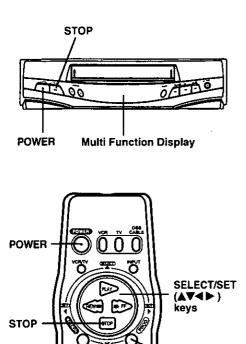
STOP

CH

SLF

VOTES

- A cassette with no record tab is ejected and "TIMER" flashes when the power is turned off to set the timer. If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a timer recording comes up during a normal recording or One Touch Recording (page 17), the timer recording will not be performed.
- If there is a power interruption of more than one minute, the recording will not be performed or continue.



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PROG

ADD/

DELETE

# **Cancel a Timer Recording:**

(Recording is in progress)

Press POWER and then STOP within 10 seconds to cancel the timer recording.

The TIMER indicator goes out in the Multi Function Display.

# **Replace Program Contents:**

(Recording is not in progress)

- 1 Press PROG to display all currently set programs.
- 2 Press ▲▼ and ▶ to select and set a program number. (See page 18.)
- 3 Press ▲▼ and ◀▶ to select and set replacement timer information.

23	8 10	START 10:00F 8:00F 9:00F	12:00	2125 10	SP
	SELE	CT1-8 R:⊫K	l:▲ ▼ ≯	-	-
ົດ	ATE	J STAF		TOP	



P DT START STOP CH SPD 10AY 9:00A12:00A 08 SP 2 8 10:00P12:00P125 SP 3 10 8:00P 9:00P 10 SP 4 SU 9:00P10:00P L LP

DT START STOP CH SPD

SP SP LP

8 10:00P12:00P125 10 8:00P 9:00P 10 SU 9:00P10:00P L

SELECT 1-8:▲ ▼ KEY ENTER :► KEY END :PROG KEY

CANCEL:ADD/DLT KEY SELECT 1-8:▲ ♥ KEY ENTER :▶ KEY END :PROG KEY

1

sΰ

4 Press PROG twice to exit this mode.

#### **Review or Clear Program Contents:** (Recording is not in progress)

- 1 Press PROG to display all currently set programs.
- 2 Press ▲▼ to select a program number.
- 3 Press ADD/DLT if you want to clear the program.
- 4 Press PROG to exit this mode.

# G V SELECTA PROG ⊲ sèt >

#### Timer Recording Using VCR Buttons (Make sure a cassette tape is not inserted in the VCR.)

- Hold down STOP/EJECT and press REW to enter the Program mode.
- 2 Press FF or REC/TIME repeatedly or hold down to make selections.
- 3 Press PLAY to set the item and move on. · To make corrections, repeatedly press PLAY to move the cursor to the right, or REW to move to the left to the incorrect entry and make the correction.
- 4 Press STOP/EJECT and REW together to display program contents after all items have been entered.
  - You cannot clear programs with the VCR buttons.
- 5 Hold down STOP/EJECT and press REW, (release REW first, and then release STOP/EJECT) to exit this mode.
- 6 Insert a cassette with record tab and press POWER off to set the timer.

Our Vacation

**Tape Operation** 

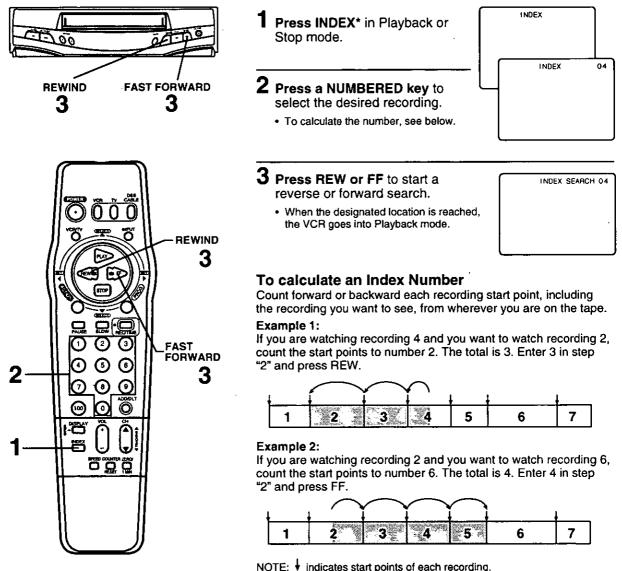
\*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

# **VHS Index Search System**

Each time you start a recording, an invisible index mark is automatically placed on the tape. You can then use these index marks to access or scan your recordings.

# **Direct Access**

This feature allows you to go directly to the recording you want from anywhere on the tape by entering the appropriate index number.

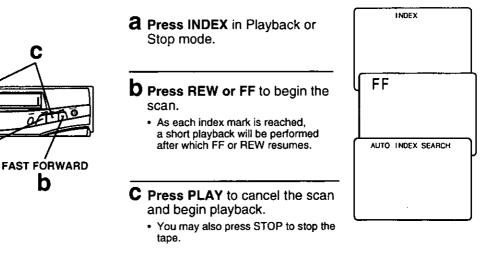


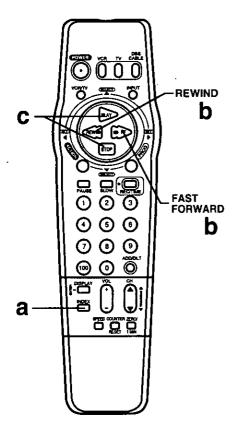
NOTES

- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- Index marks will be placed for Timer recordings as well.
- If any of the VHS Index Search System are initiated extremely close to an index mark, the index mark may not be counted in the search.

Index Scan

This feature allows you to scan (forward or reverse) each recording for 10 seconds in Playback mode.





STOP/EJECT

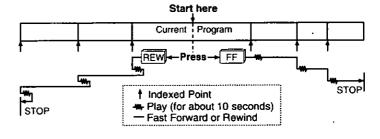
00

REWIND

b

С

b



## Auto Operation Functions

#### Auto Playback

When a tape is inserted, the power turns on (Auto). If the record tab\* is removed, playback begins (Auto).

#### Auto Rewind

When a tape reaches its end during playback, fast forward or manual record, the VCR will rewind and go into Stop mode.

#### Playback Auto Eject

(Repeat Play is "OFF.")

When a tape without a record tab\* is played to its end, the VCR will rewind and then eject the tape.

#### Memory Rewind Off

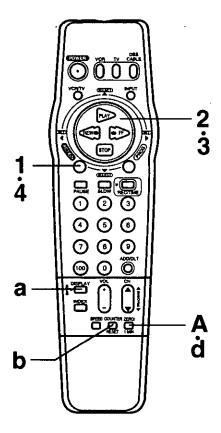
When the POWER button is pressed during rewind, the VCR will turn off after rewind is complete.

\* For record tab information, see page 5.

# Tape Operation (continued)

\*Important: If the remote control POWER, ACTION, PROG, CH▲/♥, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

Your VCR is equipped with several time saving features as well as convenient automatic functions making tape operation easier than ever.



# **One Minute Skip**

The VCR rapidly skips over one minute of tape.

A Press ZERO/1 MIN in Play mode.

· The VCR will go into FF search mode and skip over 60 seconds of recorded time. Normal playback will then resume.

# **Repeat Play**

The VCR will play your recording over and over.

- Press ACTION\* to display the menu.
- 2 Press ▲▼ to select "SET UP SELECT: A V KEY ÊND VCR," and then press b to display the "SET UP VCR" screen.
- Press ▲▼ to select "REPEAT PLAY," and then press b to select "ON" or "OFF."
  - When "ON" is selected the VCR plays the tape to its end or until a blank portion of over 30 seconds is detected (erased portions are not considered blank). The tape is then rewound and played again and again until Repeat Play is turned off.



----- MENU -----

SET UP VCH SET CLOCK SET UP CHANNEL IDIOMA/LANGUE:ENGLISH

ACTION KEY

4 Press ACTION twice to return to the normal screen.

# Zero Search

To quickly return to a specific tape location.

**a** Press DISPLAY to display the Time Counter overlay during playback.

# **D** Press COUNTER RESET

to reset the Time Counter to "0:00:00" at the desired position.

- C Continue playback, rewind, or fast forward.
- **C Press ZERO/1MIN** in Stop mode when you want to return to "0:00:00."
  - · The VCR will go into FF or REW mode and stop at the last point the Time Counter was set to 0:00:00.

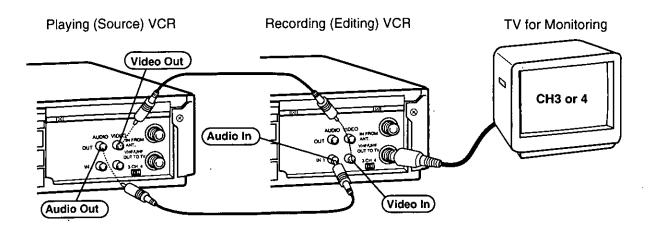
STOP	12:00AM	CH 08 0:00:30 SP

STOP	12:00AM	CH 08 0:00:00 SP

**Copying Your Tapes (Dubbing)** 

# Connections you'll need to make.

When connecting to a normal VCR, use the L Audio In jack for proper sound reproduction.



1 Insert a pre-recorded tape into the Playing (Source) VCR.



- 2 Insert a blank tape with record tab into the Recording (Editing) VCR.
- **3** Select "LINE" Input mode on the Recording (Editing) VCR. (See "Selecting the Input Mode" at right.)
- 4 Press PLAY on the Playing VCR. Press PAUSE at the desired starting point.
- **5 Press REC** on the Recording VCR, and then **press PAUSE** immediately thereafter.
- 6 Press PAUSE on both VCRs at the same time, to begin copying.

# To Edit Out Unwanted Parts

Press PAUSE on the recording VCR while copying is in progress. Press PAUSE again to resume copying.

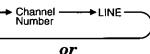
7 Press STOP on both VCRs to stop copying.

# To Monitor Dubbing on Your TV

- 1 Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).
- 2 Set the VCR/TV Selector on the Recording VCR to "VCR."

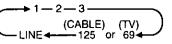
# Selecting the Input Mode

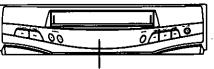
Press INPUT. The display will change in the order below.



## Press CH ▲/▼.

The display will change in the order below.

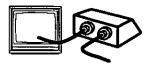




• When LINE is selected, "L" is displayed in the Multi Function Display for about 4 seconds.

## Caution:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.



# **Multi-Brand Control Feature**

The Remote Control may be set up to control some of the functions on your TV or Cable Box.

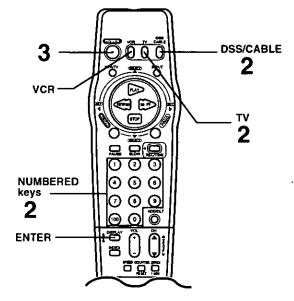
#### **TV Brand Code Numbers**

Panasonic	01, 02
Quasar	01, 02
RCA	03
GE	03
Zenith	04
Magnavox	
Sylvania	
Sharp	
Sony	

Toshiba Sanyo Fisher JVC Hitachi Mitsubishi Samsung	10 11 12 13
Samsung Gold Star 15, 16,	

DSS Brand Code Nur	nbers
Toshiba	103
Hitachi/ Hughes	104
Magnavox/ Uniden 1	105
Magnavox/ Uniden 2	106
Sony	
RCÁ	108
Panasonic	109

Cable Box Brand Code	Numbers
Archer 01, 29	
Cableview 04, 30, 42, 44, 52	2, 63, 85, 88
Citizen 04, 30, 42, 44, 52	2, 63, 85, 88
Curtis	5, 61, 87, 90
Diamond 01, 29	9, 44, 88, 91
Drake	37, 67, 71
Drake Eagle 13, 20, 22, 26, 40	0, 58, 62, 98
Eastern	28
GC Brand 04, 30, 42, 44, 52	2, 63, 85, 88
Gemini	04, 85
General Electric	57
General Instruments	
01, 02, 03, 04, 34, 55, 83, 85	5, 91, 93, 95
Hamlin 14, 15, 28, 41, 9	37, 100, 102
Hitachi	
Jerrold 01, 02, 03, 04, 34, 55, 83, 85	01 02 05
Macom Magnavox	
Matsushita	
Movietime 29, 32, 38, 39, 40	10, 17, 101
NSC	32 38 40
Oak 10	11 46 99
Oak10 Panasonic	16 17 101
Philips 13.20	) 23 24 96
Pioneer	05. 06. 78
Pioneer Pulsar	2. 63. 85. 88
Radio Shack	
RCA	16.17.101
Realistic	44. 51. 88
Hegal	14 41
Regency	
Rembran 29, 32, 39	9, 42, 44, 88
Salora Samsung	68, 72
Samsung 32, 40	), 42, 78, 94
Scientific Atlanta 08, 09, 56 Sheritech	5, 61, 87, 90
Sheritech	
SL Marx 32, 40	, 42, 78, 94
Spucer	10, 17, 101
Stargate 04, 30, 32, 40, 42, 44, 52, 63, 7	9 95 99 04
Sylvania	0, 00, 00, 94
Teknika	
Telecaption	
Teleview 32, 40	42 78 94
Texscan	18 19
Tocom 01, 33, 34, 42	. 48. 49. 91
Toshiba	
Uniden Satellite	65, 69
Unika 01, 29	. 44. 88. 91
Universal	. 52. 63. 88
Viewstar 13, 20, 22, 26, 40	), 58, 62, 98
Videoway	07, 23, 50
Vid Tech	64
Vidter	64
Zenith	07, 23, 50



# **Multi-Brand Control Setup**

- Find your TV or Cable Box or DSS Box Brand Code Number from one of the charts on this page.
- 2 Hold down TV or DSS/CABLE. Use the NUMBERED keys to enter your TV or Cable Box Brand code number.
  - For code numbers 100 or greater, first press the 100 key. Then, enter the remaining digit. E.g. for 102, press 100, then press 2.
- **3** To confirm that the correct code was entered, press POWER to turn your TV or Cable Box or DSS Box On/Off.
- ${f 4}$  Try each of the functions listed on page 25.
  - Due to changes in infra-red commands used by some manufacturers, more than one code is listed for some TV or Cable Box brands are listed more than once. If your TV or Cable Box does not respond to the first code, please try entering the next code.
    - Please repeat the TV/Cable Box Set Up procedure when you replace the remote's batteries.



The remote control is designed to control the brands listed. However, it will not operate all TVs, Cable Boxes or DSS Boxes made by these manufacturers. If you get no results, your particular product brand cannot be controlled by this remote control.

# **Using the Multi-Brand Control**

Once the remote control has been properly set up, you can select VCR, TV, or DSS/CABLE mode depending on which functions you wish to control.

**Press VCR or TV or DSS/CABLE** on the remote control to select the desired mode. (See below for the controllable functions of each mode.)

#### NOTE:

In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing NUMBERED keys for channel selection.

## VCR Mode

In VCR mode, the following buttons are available. <u>VCR</u> All function buttons. <u>TV</u> VOL UP/DOWN

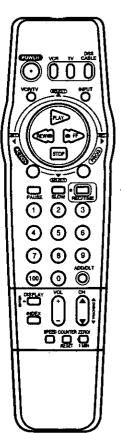
### **TV Mode**

In TV mode, the following buttons are available. TV

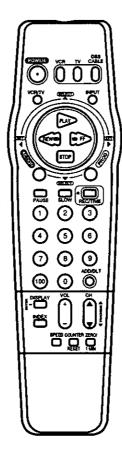
POWER, INPUT, NUMBERED keys, ENTER, CH UP/DOWN, VOL UP/DOWN <u>VCR</u> VCR/TV, PLAY, STOP, FF, REW, PAUSE, SLOW, REC, SPEED, COUNTER RESET, ZERO/1 MIN.

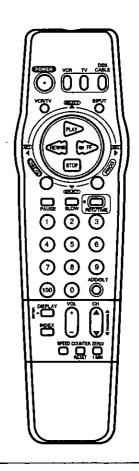
# DSS/CABLE Mode

In DSS/CABLE mode, the following buttons are available. <u>DSS/CABLE</u> POWER, NUMBERED keys, ENTER, CH UP/DOWN <u>TV</u> VOL UP/DOWN <u>VCR</u> VCR/TV, PLAY, STOP, FF, REW, PAUSE, SLOW, REC, SPEED, COUNTER RESET, ZERO/1 MIN.



NOTES





Some TV, Cable Box and DSS Box brands require you to turn on the power manually.
Not all functions listed may be controlled by this remote control.

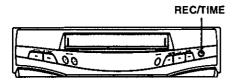
# **Special VCR Features**

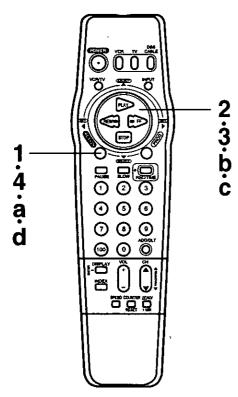
\*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

## Check list before you begin.

All connections are made. (See pages 6~9.)

VCR is plugged in.
 TV is turned on and set to the VCR channel (CH 3 or 4).





# VCR Lock Feature

When activated, this feature prohibits all operations except for timer recording and tape eject. This feature may be used to keep young children from operating the VCR.

#### Hold down REC/TIME on the VCR without a cassette inserted for 7 seconds while in Stop mode.

# To Cancel the VCR Lock feature,

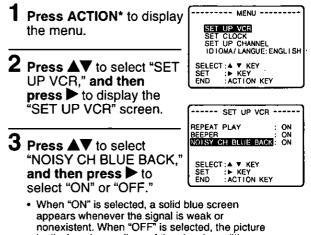
with or without a cassette inserted, hold down REC/TIME on the VCR for 7 seconds again while in Stop mode.

9	VCR LOCK ACTIVATED
•	VCR LOCK OFF
•	

 VCR Lock mode is cancelled automatically after 24 hours as long as the clock is set.

# Blue Back ON/OFF Feature

You may choose whether or not you want the VCR to display a solid blue screen when the broadcast signal is very weak or nonexistent.



- nonexistent. When "OFF" is selected, the picture is displayed regardless of the signal condition. • The picture can not always be seen clearly when
- The picture can not always be seen clearly when "OFF" is selected.

# 4 Press ACTION twice to exit.

NOTE

When the VCR is connected to a Combination VCR which has a Blue Back feature, even if the VCR Blue Back is set to "OFF" on the VCR, the screen will go to blue back.

# Warning Beeper Feature

When you select BEEPER ON, a short warning will sound each time an invalid entry or incomplete operation is made.

<b>a</b> Press ACTION to display the menu.	SET UP VCR SET CLOCK SET UP CHANNEL
<ul> <li>Press ▲▼ to select</li> <li>"SET UP VCR," and then press ► to display the</li> <li>"SET UP VCR" screen.</li> </ul>	SEL UP UPANNEL IDIONA LANGUE:ENGLISH SELECT:▲ ▼ KEY END : ACTION KEY
C Press ▲▼ to select "BEEPER," and then press ► to select "ON" or "OFF."	SELECT: ▲ ▼ KEY SET : ► KEY END : ACTION KEY

**d** Press ACTION twice to exit this screen.

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

# PANASONIC Video Products

## Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

<u>PRODUCT</u> CAMCORDER	<u>PARTS</u> ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	<u>LABOR</u> NINETY (90) DAYS NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS

#### Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-211-PANA (7262), to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is requires before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

#### LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

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

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 10/20/97

Thank you for your purchase. For service of this Panasonic product, please contact your local Sears Service Center. To locate the closest Sears Service Center, call 1-800-488-1222.



# **Before Requesting Service**

Check the following points once again if you are having trouble with your VCR.

Power	Correction
No power	<ul> <li>Completely insert the Power Plug into an AC outlet.</li> <li>Set the POWER button to ON.</li> </ul>
Recording & Playback	Correction
TV program cannot be recorded	<ul> <li>Check connections between VCR, external antenna, and your TV.</li> <li>Make sure your antenna system (CABLE or TV) is correctly set. (To Replace Channels in Memory [P.14])</li> <li>Make sure that the record tab is intact on the cassette. (P.5)</li> </ul>
Timer recording cannot be performed	<ul> <li>Set the recording start/stop times correctly. (P.18)</li> <li>Make sure that the POWER button is set to OFF. (P.18)</li> <li>Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before, or during, a Timer Recording, even after power is restored.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select channel 3 or 4 on the TV to match the Channel 3/4 switch located on the rear panel of the VCR. (P.6)</li> <li>Set the VCR/TV selector to "VCR."</li> <li>Check that channel 3 or 4 of the TV is properly tuned in.</li> <li>Adjust the TRACKING control in either direction. (P.16)</li> </ul>
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control	Set the TV's Vertical Hold Control to "MANUAL" and then adjust it.
VCR cannot be controlled	Make sure that VCR LOCK is set to off. (P.26)

Remote Control	Correction
VCR cannot be remote controlled	<ul> <li>Aim the Remote Control directly at the remote sensor on the VCR. (P.10)</li> <li>Avoid all obstacles which may interfere with the signal path.</li> <li>Inspect the remote batteries for possible replacement. (P.4)</li> <li>Make sure that VCR LOCK is set to off. (P.26)</li> <li>Exposing the VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
ACTION and PROG buttons cannot be used	Press the VCR button to select VCR mode. (P.25)
Miscellaneous	Correction
Programs cannot be viewed on TV	Set the VCR/TV selector to "TV." (P.17)
Video cassette cannot be inserted	Insert the cassette with window side up; record tab facing you.
Video cassette cannot be removed	Completely insert the Power Plug into an AC wall outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording	Make sure the record tab is intact on the cassette. (P.5)
In Stop mode, the motor (CYLINDER) continues to rotate	<ul> <li>To enable the quick play mechanism, the cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode from Play to Rewind Search mode.</li> </ul>
The top of the playback picture waves back and forth excessively	<ul> <li>Because the VCR playback signal is not as stable as an off-the-air TV signal, the top of your TV screen may be bent or unstable during playback. Slowly turn the horizontal hold control on your TV to correct the wavy picture. If your TV does not have a horizontal hold control or adjusting the control does not help, please contact your local TV service center.</li> </ul>

# Spanish Quick Use Guide/Guía para rápida consulta

# Para fijar el idioma, canal y reloj

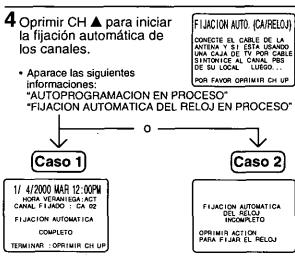
- 1 Encienda el televisor y la videograbadora.
- 2 Sintonice el televisor al canal de salida de la videograbadora (el mismo canal que ha fijado en la parte trasera de la videograbadora; canal 3 o 4).
  - Si esta usando los terminales de audio/video para su conexión, fije el televisor al modo de entrada de video.
- 3 Oprimir CH ▲ para elegir el idioma de la pantalla en inglés.

SELECT LANGUAGE

Oprimir CH ▼ para elegir el idioma de la pantalla en español. PUSH VCR CH ▲: ENGLISH OPRIMIR VCR CH ▼:ESPAÑOL APP. VCR/TV : FRANÇAIS

Oprimir VCR/TV para elegir \_\_\_\_\_ el idioma de la pantalla en francés.

- Ud. podrá fijar también usando los mismos botones que están ubicados en la videograbadora.
- La videograbadora debe conectarse a una antena o caja de TV por cable.



# Caso 1

Comprobar si la hora está fijada correctamente y luego oprimir CH ▲ para terminar la fijación.

Si la hora y la hora veraniega es incorrecta, Raras veces, en caso de que ud. vive cerca de dos zonas con hora diferente, el aparato puede elegir un canal PBS con diferente hora de su zona. En este caso, haga los siguientes pasos:

- a Tome nota del canal que está fijado en la pantalla y salga desde este modo oprimiendo el botón CH ▲.
- **b** Anule este canal desde los canales memorizados en la combinación de VCR/TV.
- c Oprimir el botón ACTION para que aparezca la pantalla del MENU.

- d Oprimir ▲♥ para elegir "FIJAR RELOJ" y luego oprimir ▶ para que aparezca la pantalla de "FIJAR RELOJ."
- e Oprimir ▲▼ para elegir "FIJACION AUTOMATICA" y luego oprimir ▶ para que aparezca la pantalla de "FIJACION AUTO (RELOJ)."
- f Oprimir CH A para inicir la fijacion automatica.
  - Si ud. esta usando una caja de TV por cable y tiene muchos canales PBS, sintonize la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez.

# Caso 2

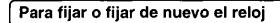
Si aparece la pantalla anterior, la fijación automática del reloj no es disponible en su zona. Por favor fije la hora del reloj manualmente.

- a Oprimir el botón ACTION para que aparezca la pantalla de la fijación del reloj.
- b Oprimir ▲♥ ◀► para elegir y fijar el mes, la fecha, el año, la hora y la hora veraniega.

Para hacer correcciones,

Oprimir ◀► sucesivamente para mover hasta el paso que desea corregir.

c Oprimir el botón ACTION dos veces para iniciar a funcionar el reloj y salir desde este modo.



En caso de que el reloj es incorrecto o ha ocurrido un corte eléctrico.

- 1 Oprimir ACTION para que aparezca la pantalla del menú.
- 2 Oprimir ▲▼ para elegir "FIJAR RELOJ" y luego oprimir ▶ para que aparezca la pantalla de "FIJAR RELOJ."
- 3 Oprimir ▲▼ para elegir "MANUAL," y luego oprimir ▶ para que aparezca la pantalla de la fijacion del reloj.
- 4 Oprimir ▲▼ y ◀► para elegir y fijar la hora y la fecha.
- 5 Oprimir ACTION dos veces para <u>iniciar a</u> <u>funcionar el reloj</u> y salir desde este modo.

PREPARAR VCR FIJAR REKOJ FIJAR CANAL	
LANGUE/LANGUAGE: ESPAN	IOL
ELEGIR: A V FIJAR : D TERMINAR: ACTION	
FIJAR RELOJ	

FIJACION AUTOMATICA MANUAL
ELEGIR:▲ ▼ FIJAR :► TERMINAR:ACTION



## Operaciones básicas para la reproducción

Introducir una cinta
 Esta indicación aparece en la pantalla multifuncional.

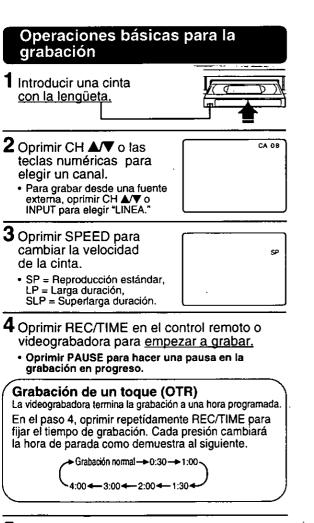


- 2 Oprimir PLAY en el control remoto o en la videograbadora para comenzar a reproducir.
- **3** Oprimir STOP en el control remoto o en la videograbadora para parar la reproducción.
- **4** Oprimir STOP/EJECT para expulsar la cinta.

#### Para buscar una escena en particular durante la reproducción

Oprimir REW o FF durante la reproducción para buscar una escena.

 La velocidad de búsqueda es a 7 veces más rápida que la velocidad normal para el modo SP y 21 veces más rápida para el mode SLP.



# Programación fácil para la grabación con temporizador

- Oprimir PROG para exhibir la pantalla de la programación.
  - Si ya existe una programación memorizada, oprimir ▲▼ y ▶ para elegir un número sin programación.

- 2 Oprimir ▲▼ y ► para elegir y fijar uno de los siguientes:
  - 1~31 =Grabación de una sola vez
  - DIARIO = A una misma hora LUN~VIE
  - SEMANAL =Una vez a la semana a una misma hora



# 3 Oprimir ▲♥ y ◀► para elegir y fijar las siguientes fijaciones.

#### Fijaciones:

- Hora de inicio
   Hora de parada
- Canal o LINEA para una fuente externa .
- Velecidad de la cinta (SP, LP, SLP).

Para hacer correcciones

Oprimir ► sucesivamente para avanzar u ◄ para retroceder hasta el paso que desea corregir.

4 Oprimir PROG para terminar la programación.



#### Para hacer más programaciones

Oprimir ▲▼ y ▶ para elegir y fijar un número de programación en blanco y luego repita los pasos 2 y 3.

5 Oprimir PROG para salir desde este modo y volver a la pantalla normal.

6 Oprimir POWER y apague el aparato para la grabación con temporizador.

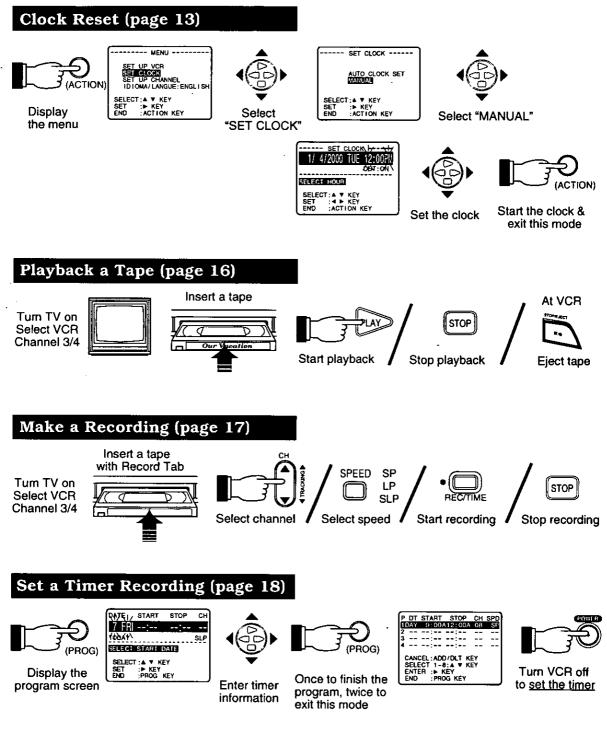


Pantalla multifuncional

 Si la fuente de la grabación es una caja de TV por cable, asegúrese de que la caja de TV por cable esté encendido y esté sintonizado al canal que desea grabar.

# Quick Use Guide

This guide should only be used once you are familiar with the operations inside this manual. If you have any problems or need more information, please refer to the page listed.



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