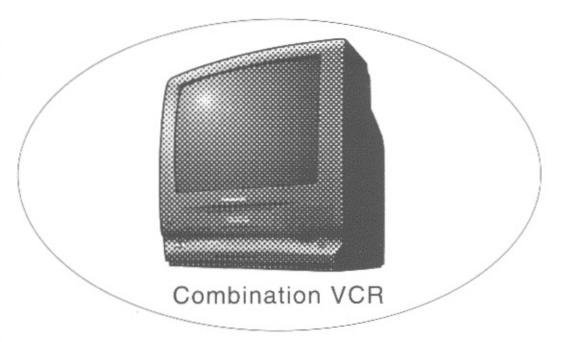
### Thank you for choosing

# Panasonic VHS Omnivision



### MODEL PV-M1338



As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

# Operating Instructions

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 incluido.

# **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 Combination VCR.

| Date of Purchase |          |
|------------------|----------|
| Dealer Purchased | From     |
| Dealer Address   |          |
| Dealer Phone No. |          |
| Model No.        | PV-M1338 |
| 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 MB 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.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.



CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER FOR BACK)

NO USER A ÉRIVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



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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# **Important Safeguards and Precautions**

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

### INSTALLATION

#### 1 POWER SOURCE CAUTION

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.

#### 3 POWER CORD

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.

### 4 DO NOT BLOCK VENTILATION HOLES

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:

- 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.
- 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 child or adult and damage to the unit.
- 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.
- 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**

### 1 SAFE ANTENNA AND CABLE CONNECTION

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

### 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.

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

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

#### 4 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 press 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.

### **6 CLEANING THE UNIT**

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**

### 1 DO NOT SERVICE THIS PRODUCT YOURSELF

If, after carefully following the detailed operating instructions, this Video product does not operate properly, 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.

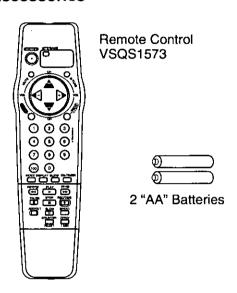
3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.

# **Unpacking Your Combination VCR • Product Features**

# Unpacking Your Combination VCR

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

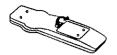
### **Accessories**



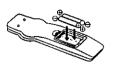
To order accessories, call toll free 1-800-211-PANA(7262).

### Load the batteries

Press in and up on the latch with your thumb nail and lift off the lid.



1nstall two batteries as indicated inside the Battery Compartment.



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**

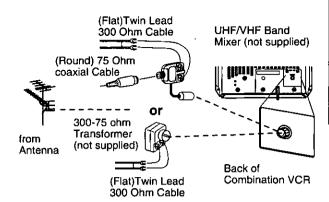
| Alarm Timer   | 13           |
|---|--------------|
| All Channel Auto Set/181-CH TV/CABLE Tuner  |              |
| Auto Clock Set  |              |
| Auto Daylight Saving Time   | 25           |
| Auto Operation Functions (Auto Shut Off, Auto Playback, Rewind, Tape Eject, Power Off)              |              |
| Auto Repeat Function  | 24           |
| Closed Caption System   |              |
| Easy-to-Read English/Spanish/French On-Screen Displays  | 8, 9, 18, 19 |
| Front-mounted A/V In Terminals  | 17           |
| Head Cleaner  | 25           |
| NITE/GAME Mode  | 11           |
| One Minute Skip   |              |
| One Month, 8 Program Auto Timer Recording   | 18, 19       |
| One Touch Recording (OTR)   |              |
| Quick Play Mechanism  | 26           |
| Rapid Tune  |              |
| Special Effects Playback  | 15           |
| Special VCR Features (Channel Caption, Time Stamp, Blue Back ON/OFF Feature, VCR Lock, Warning Beep | er) 20, 21   |
| VHS Index Search System (Direct Access Index Search, Program Index Search, Index Scan Search        | ) 22, 23     |
| Zero Search   | 24           |
|   |              |



### **Antenna or Cable Connections**

### **Outdoor Antenna Connection**

Unhook the antenna from your previous TV or VCR and connect it to the back of the Combination VCR as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied).



### **Cable Connections**

### (A) Without a Converter/Descrambler Box

With this connection, you can use your Combination VCR remote control to select channels for viewing and select unscrambled channels for timer recording. Scrambled channels may not be viewed or recorded with this connection.

### (B) With a Converter/Descrambler Box

With this connection, you may record and view any channel including scrambled channels. Please note, however that channel selection must be made at the cable company converter box. Timer recording is limited to one channel at a time, and you can only view the channel you are recording.

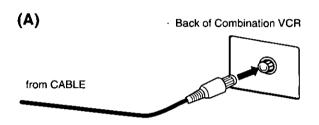
### To Watch and Record Scrambled/ Unscrambled Channels

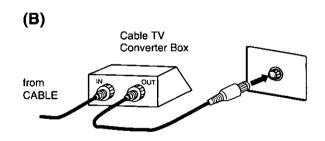
Set the Combination VCR to the output channel of the cable converter box (e.g. CH3). Now, select channels to be viewed or recorded at the cable converter box.

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

### Note to CABLE System Installer

This reminder is provided to call the CABLE System Installers 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.

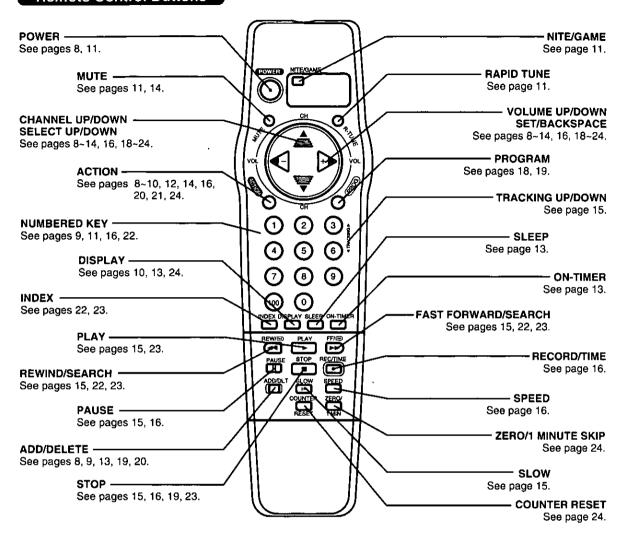




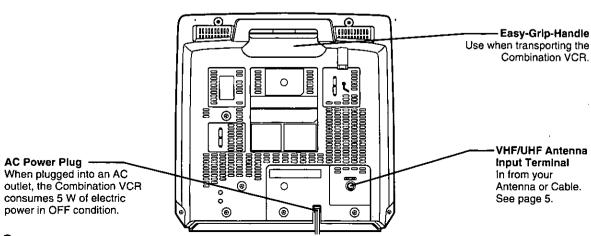


### **Location of Controls**

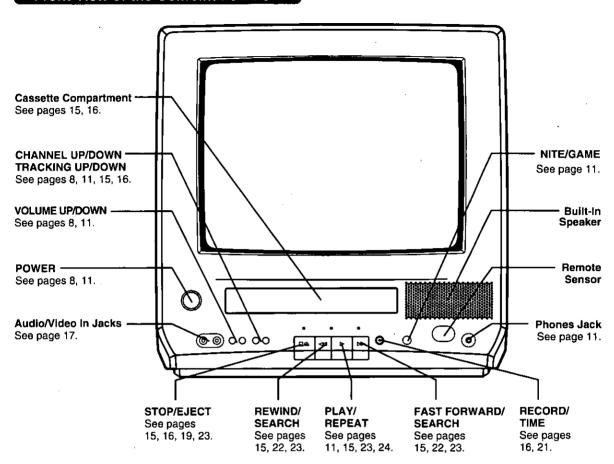
### **Remote Control Buttons**



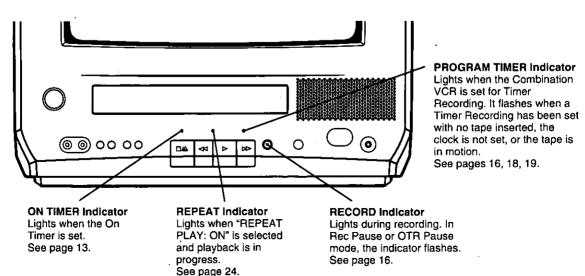
### **Rear View of the Combination VCR**



### Front View of the Combination VCR



### **Indicators on the Front Panel**





# **One Time Setup**

When the Combination VCR is turned on for the first time, it automatically enters the setup mode. Setup includes the following:

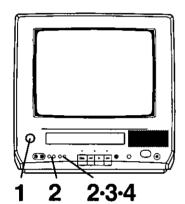
 Choose the language for on-screen menus and messages.

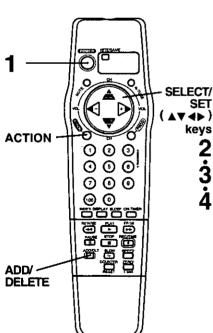
 Tell the Combination VCR how your equipment is hooked up (page 5) so the Combination VCR can correctly place channels into memory.

· Get the Combination VCR ready for clock set.

# Check list before you begin.

Your Combination VCR is connected to an Antenna, or Cable system (see page 5).





### Using the ▲▼◀▶ keys

Whenever a menu or program screen is displayed, CHANNEL UP/DOWN and VOLUME UP/DOWN on the remote control function as ▲▼ ◀▶ only. For VOLUME UP/DOWN functions, use the buttons on the Combination VCR.

### To Set Language, Channels and Clock

1 Press POWER to turn the Combination VCR on.

# 2 Press CH ▲▼, or VOL▶ for on screen displays in English, Spanish or French.

- If you choose the wrong language, please see the "Reset all Combination VCR Memory Functions" section on page 25.
- If you use a cable box, the cable box must be left on for auto channel set.

### SELECT LANGUAGE

PUSH CH ▲ :English OPRIMIR CH ▼ :Español

APP. VOL + :Français

Important: If you use a cable box, turn it on and select the PBS station in your time zone.

3 Press CH ▲ to start Channel Auto Set and Clock Auto Set.

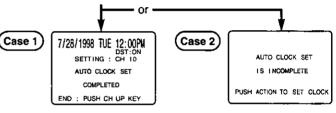
These on-screen displays will appear in sequence.

- CH AUTO SET PROCEEDING
- CH AUTO SET COMPLETED
- AUTO CLOCK SET PROCEEDING

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



Case 1) If the dis

If the displayed time is correct, press CH ▲ to exit

- This concludes one time Combination 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 Combination VCR may have recognized the PBS channel (setting channel) in the wrong time zone. Please do the following to correct the situation.

- b. Delete the setting channel from the Combination VCR channel memory. (See the Add or Delete a Channel section on the next page.)
- c. Press ACTION to display the MAIN MENU.
- d. Press ▲▼ ◆► to select "CLOCK," and then press ACTION to display the SET CLOCK screen.
  - 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 again using the menu.
- e. Press ▲▼ to select "AUTO CLOCK SET," and then press ▶ to set and CH ▲ to start Auto Clock set.

### IMPORTANT NOTE FOR AUTO CLOCK SET WHEN USING THE CABLE BOX

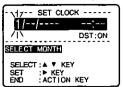
- Auto clock set will be performed when the Combination VCR is turned
  off the first time each day. If you use a cable box and you want auto
  clock set to be performed, the cable box must be left on and tuned to
  the PBS channel at the time the Combination VCR power is turned off.
- If you use Audio/Video Jack connection between the Combination VCR and Cable Box, you must also connect the RF coaxial cable in order to use the auto clock set and channel auto set features.
- If for any reason the time is changed manually, automatic time correction will not occur.

# Case 2 If AUTO CLOCK SET IS INCOMPLETE appears, please set the clock manually.

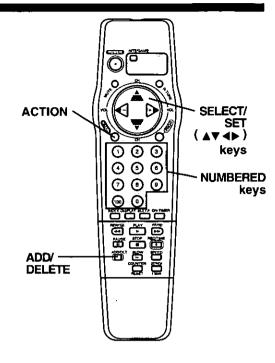
- a. Press ACTION to display the SET CLOCK screen.
- b. Press ▲▼ to select and ► to enter the month, date, year, time and DST. (Daylight Saving Time).

### 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 the MAIN MENU.

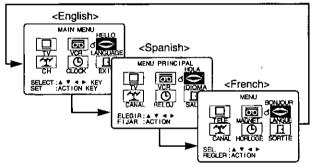


 "DST:ON" automatically adjusts for daylight saving time. (See page 25.)



### To Change the OSD Language

- 1 Press ACTION to display the MAIN MENU.
- 2 Press ▲▼◀► to select the language selection icon.
- 3 Press ACTION repeatedly to change the language as shown.

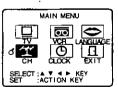


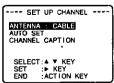
4 Press ▲▼◀► to select "EXIT," and then press ACTION to exit the MAIN MENU.

### To Replace Channels in Memory

In case, you have cable installed, etc.

- 1 Press ACTION to display the MAIN MENU.
- 2 Press ▲▼ ◀► to select "CH," and then press ACTION to display the SET UP CHANNEL screen.
- 3 Press ▲▼ repeatedly to select "ANTENNA," and then press ► to select your antenna system ("TV" or "CABLE").
- 4 Press ▲▼ to select "AUTO SET," and then press
   ▶ to start.
  - To exit the SET UP CHANNEL screen, press ACTION twice.



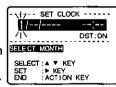


### To Set or Reset the Clock

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

- 1 Press ACTION to display the MAIN MENU.
- 2 Press ▲▼◀▶ to select "CLOCK." Then, press ACTION to display the SET CLOCK screen.
- 3 Press ▲▼ to select "MANUAL," and then ▶ to display the SET CLOCK screen.
- Please do steps b and c at the top of this page.





### 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.
- CHANNEL OB ADDED

  CHANNEL OB DELETED
- To select a channel once it's deleted, use the NUMBERED keys.



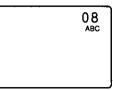
- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how
  your Combination VCR is hooked up.



# On-Screen Displays (OSD)

### **Channel & Function Display**

Whenever the channel is changed, the channel number will appear for a few seconds on-screen. (Some station names may also appear if Channel Caption is set. See page 20.)



When a function button is pressed (PLAY, FF, etc.), the Combination VCR mode will be displayed.

 When a recording is started, both REC and the channel number will appear together.

### Warning and Instruction Displays

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

If no active channels are found for CHANNEL MEMORY... (see page 5.)

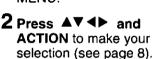
NO CH FOUND
PLEASE CHECK ANTENNA
CABLE CONNECTION THEN
PUSH CH UP KEY AGAIN

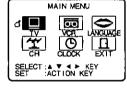
If you attempt to set or review a Timer Recording or set the On-Timer and the Clock is not set... (see pages 8, 9.)

PLEASE SET CLOCK
BEFORE PROGRAMMING

### Menu Screen

1 Press ACTION to display the MAIN MENU.





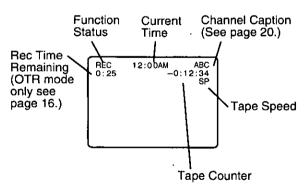
 To get the most from each feature, please read the Operation Manual before attempting any operation. If you press REC on the remote control or the Combination VCR, and a cassette is inserted with no record tab... (see page 16.)

If you press STOP during a Timer Recording... (see page 19.) CHECK CASSETTE RECORD TAB

TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC

### VCR Status & Clock Display

**Press DISPLAY** to display and remove the overlay shown below.



If you press PLAY, FF, REW, or REC on the remote control or the Combination VCR without a cassette inserted... (see pages 15, 16.)

If the Combination VCR is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin... (see pages 18, 19.)

If head cleaning becomes necessary while playing back a tape... (see page 25.) NO CASSETTE
PLEASE INSERT A CASSETTE

PLEASE PREPARE FOR TIMER REC

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

END: PLAY KEY

### 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 21) set to ON, the TV screen will turn solid blue.

If you press a function button other than STOP/EJECT or POWER while the Combination VCR is in VCR Lock mode... (See page 21.)

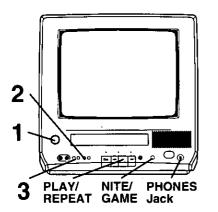
VCR LOCK ACTIVATED

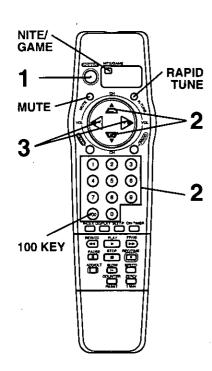


# TV Operation



- All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.





- Press POWER to turn the Combination VCR on.
- Select a channel using CH ▲▼ or the NUMBERED keys.
- Press VOL◀▶ to adjust the volume level.

### 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, for channel 125: Press NUMBERED keys 100-2-5.

### Rapid Tune

Press R-TUNE to display the last channel you were watching.

 When selecting channels with CH ▲▼ , the channels must be displayed for at least 4 seconds in order for the Combination VCR to recognize them as a new selection.

Previous channel

Present channel

CH08 -CH10

### Audio Mute

Press MUTE to instantly mute the sound. Press again, to restore the previous sound level.

### **Phones**

Connect an earphone (not supplied) or headphones (not supplied) to the Phones Jack.

### SELF-DEMO Mode

In Power ON condition, hold down PLAY/REPEAT on the Combination VCR, with no tape inserted, for 5 seconds. The demo screen appears.

To cancel: Repeat the above operation. The demo screen disappears.

### NITE/GAME Mode Feature

This feature adjusts the color and picture intensity levels so the screen is easier on the eyes when watching a video or TV at night, or when playing

Note: This Combination VCR contains no video game software.

Press NITE/GAME repeatedly to select the desired mode.

- "NITE" or "GAME" is displayed for 4 seconds.
- . Each press of NITE/GAME will change the mode as shown below right.
- NITE mode may be selected when watching TV or playing a tape. GAME mode may only be selected when watching video and playing video games.

To Cancel the NITE or GAME mode, press NITE/GAME until the normal screen appears.

The previous color and picture settings will be restored.



- NITE mode is cancelled when:
  - . the power is turned Off · a power failure occurs
- GAME mode is cancelled when:
  - the power is turned Off play mode is entered

  - channel is changed input signal is changed
- a power failure occurs

NITE --> GAME

Normal screen -(No display)

GAME



# Picture Adjustment



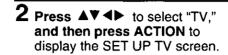
- All connections are made (see page 5).
- Your Combination VCR is plugged in.

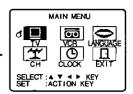
000  $\Theta$ 

O O O

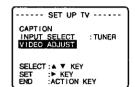
⊚ 0







**3** Press ▲▼ to select "VIDEO ADJUST," and then press to display the VIDEO ADJUST screen.



**4** Press **▲**▼ repeatedly to select the desired adjust item, and then press ◀▶ to adjust. (See description below.)



### To Reset Picture Controls to the Factory Setting

Press ▲▼ and ▶ to select and set "NORMAL."

All controls return to their factory settings.



- **5** Press ACTION three times to return to the normal
  - If no button is pressed within 5 minutes, the video adjust overlay disappears.

### **Picture Adjustment**

### **COLOR Control**

To adjust the intensity of the color.

### **TINT Control**

To adjust for the most natural fleshtones.

### **BRIGHTNESS Control**

To adjust the brightness of the picture.

### **PICTURE Control**

To adjust the intensity of the picture by adjusting contrast and color level at the same time and in the proper balance.

### SHARPNESS Control

To adjust the sharpness of the picture.

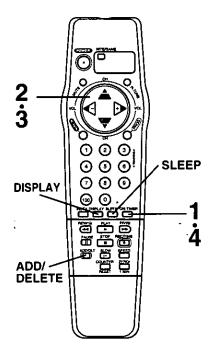


### **TV Timer Features**



Check list before you begin.

- ☐ All connections are made (see page 5). ☐ Your Combination VCR is plugged in.
  - ON TIMER Indicator



### **On-Timer with Alarm Feature**

The Combination VCR can be set to automatically power on in one of 2 modes (TV or Playback). You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

- 1 Press ON-TIMER to display the ON TIMER screen.
- 2 Press ▲▼ to select and ▶ to fix the On-Timer time and also to choose the On-Timer mode (TV or PLAY).
  - Make sure a tape is inserted if Playback mode is selected.





**3** Press ▲▼ to select alarm "ON" or "OFF."

When "ON" is selected,

an alarm will gradually increase in volume for one minute or until cancelled by pressing any button on the remote or Combination VCR (including VOL ◀▶). When the alarm sound stops, the sound of the mode you selected will ensue.



To Make Corrections,

use ▲▼ and ◀▶ to move back and correct as necessary.

4 Press ON-TIMER to set the On Timer. This screen will appear for about 5 seconds.

• The ON TIMER indicator lights on the front panel.

ON TIMER SET

To cancel,

press ON-TIMER to redisplay the screen in step 3. Then, press ADD/DLT to clear the time ("6" is flashing). Now, press ON-TIMER to end. "ON TIMER END" appears on-screen for a few seconds.



If no button on the remote or Combination VCR (including a button used to turn off the alarm) is pressed within 60 minutes after the Combination VCR turns itself on, it will turn itself back off.

### **Set the Sleep Timer**

The Combination VCR can be set for auto power off.

**Press SLEEP** repeatedly to set the sleep timer.

- Each press will change the time in the order shown at right.
- If you press DISPLAY with the SLEEP TIMER set, the remaining time will appear on-screen.

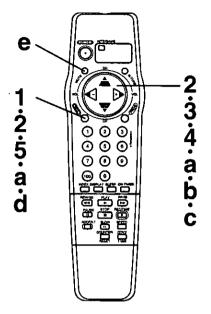
SLEEP TIMER 30
SLEEP TIMER 60
SLEEP TIMER 90
SLEEP TIMER 00

To Cancel, press SLEEP repeatedly until "SLEEP TIMER 00" appears.

# **CC** Closed Caption System

# Check list before you begin.

☐ All connections are made (see page 5).☐ Your Combination VCR is plugged in.



# Closed Caption Modes From which to Choose

Caption Mode: CAPTION C1 or C2 A narration of selected TV programs will be displayed on the screen. Check your TV program listings for C.C. (Closed Caption) broadcasts.

Caption Mode: TEXT C1 or C2
The lower half of the screen will be blocked out. When the TV station broadcasts text, such as program listings, special information, etc., it will appear in this space.

Caption Mode: OFF

Narration will not appear on the screen even if a closed caption or text broadcast is received.

Note: The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.

# Recording and Playing Back a Closed Caption/Text Program

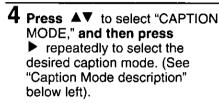
**Record:** Your Combination VCR will automatically record the Closed Caption/Text signal. Just follow normal recording operation.

**Playback:** To display the Closed Caption narration or Text during playback, follow steps 1~3 in the above section, and then select the desired caption mode in step 4.

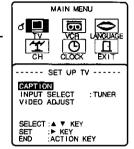
### **Closed Caption Mode Feature**

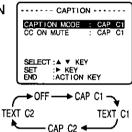
This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone. At first, read through the different closed caption options below left.

- 1 Press ACTION to display the MAIN MENU.
- 2 Press ▲▼ ◀▶ to select "TV," and then press ACTION to display the SET UP TV screen.
- 3 Press ▲▼ to select "CAPTION," and then press ▶ to display the CAPTION screen.



 Each press ➤ will change the display as shown at right.





**5** Press ACTION three times to exit the caption mode and return to the normal screen.

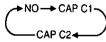
### **Caption On Mute Feature**

This feature allows you to turn off the sound and, at the same time, display Closed Caption narration. Perfect for when you need silence, but would like to continue watching the program.

**a** Follow steps 1~3 in the above section.

- **b** in step 4, press ► to select "OFF."
- C Press ▲▼ to select "CC ON MUTE," and then press ► repeatedly to select the desired caption on mute mode.
  - Each press of ▶ will change the display as shown at right.
  - The caption may be broadcast over CAP C1 or C2.

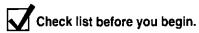




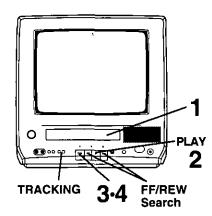
- **d** Press ACTION three times to return to the normal screen.
- **e** Press MUTE to mute the sound. The closed caption narration (if available) is displayed on the screen.
  - Press MUTE again to resume normal sound and picture.

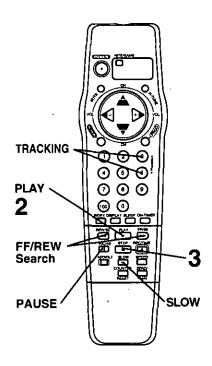


# Playback a Tape



- All connections are made (see page 5).
- Your Combination VCR is plugged in.





### Caution:

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



### Insert a cassette.

. The Combination VCR power comes on automatically.

# **2** Press PLAY on the remote control or Combination VCR to <u>start playback.</u>

 Playback begins automatically if cassette has no record tab (see page 24).

# 3 Press STOP on the remote control or Combination VCR to stop playback.

. To rewind the tape, press REW.

# 4 Press STOP/EJECT on the Combination 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 on the remote control or Combination VCR to quickly locate a scene.

- Search speed for 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 SLP mode. The sound will be muted.

#### Slow Motion Playback

Press SLOW to start slow motion 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. Next, use the 3 or 6
 NUMBERED key on the remote control or CH ▲▼ on the Combination
 VCR to clear up the picture. Now, press PAUSE.

### Frame by Frame Advance

While in Still mode, press SLOW repeatedly or hold down to advance the still picture one frame at a time. Press PAUSE or PLAY to release.

(After the Combination 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.)

### Features for a Quality Picture

### **Digital Auto Tracking**

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

### Manual Tracking Control

Use during Playback and Slow Motion mode to reduce picture noise. Press the 3 or 6 NUMBERED key on the remote control or CH ▲▼ on the Combination VCR until the picture clears up.

To return to Auto Tracking, press POWER off and then on again.

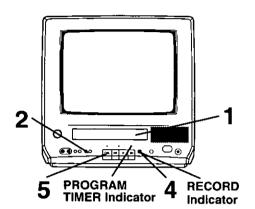


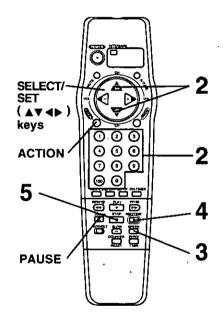
# Record On a Tape



Check list before vou begin.

- All connections are made (see page 5).
- Your Combination VCR is plugged in.





### Selecting the Input Mode

You can select the Input Mode in either of the following ways.

Press CH ▲▼ . The display will change in the order below.

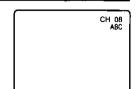
- a Press ACTION to display the MAIN MENU.
  - b Press ▲▼ ◀► to select "TV," and then press ACTION to display the SET UP TV
  - c Press ▲▼ to select "INPUT SELECT." and then press ▶ repeatedly to select "TUNER" or "LINE."

Insert a cassette with record tab.

 The Combination VCR power comes on automatically.

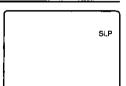


**2** Press CH ▲▼, or NUMBERED keys on the remote control to select a channel.



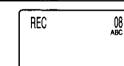
- Or, press CH ▲▼ on the Combination VCR.
- To record from an outside source, press CH ▲▼ to select LINE input (see bottom of this page).
- 3 Press SPEED repeatedly until the desired tape speed is displayed (see

page 25). SP = Standard Play



4 Press REC/TIME on the remote control to start recording.

= Long Play SLP = Super Long Play



- · Or, press REC/TIME on the Combination VCR.
- · To edit out unwanted portions, press PAUSE to pause the
  - recording in progress. To release, press PAUSE again.

TO SET SPECIFIC REC TIME PLEASE PUSH REC KEY

You can not view another channel during recording.

### One Touch Timer Recording (OTR)

The Combination VCR stops recording at a preset time.

In step 4, press REC/TIME repeatedly to set the length of the recording. Each press will change the time as shown.

- The PROGRAM TIMER indicator lights on the front panel.
- **5** Press STOP on the remote control to stop
  - . Or, press STOP/EJECT on the Combination VCR.



- · While it is possible to change the tape speed when you are recording, there will be some distortion on the tape where the change occurred.
- The remaining recording time of an OTR can be displayed by pressing DISPLAY.
- After the Combination VCR has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.

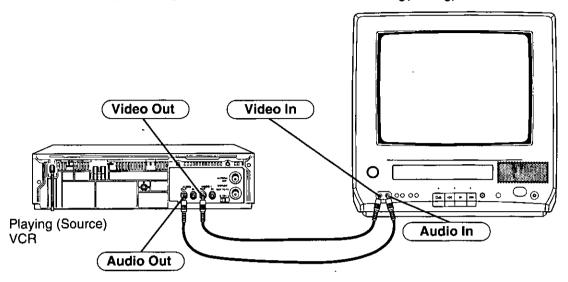


# **Copying Your Tapes (Dubbing)**

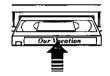
### Connections you'll need to make.

 Use this same connection for your video camera, laser disc player, video games, etc.

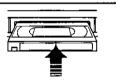
Recording(Editing) Combination VCR



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



2 Insert a blank tape with record tab into the Recording (editing) Combination VCR.



### Caution:

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

- 3 Select "LINE" as the input on the Combination VCR.
  - See "Selecting the Input Mode" section on page 16.
- 4 Press PLAY on the VCR.

Then, **press PAUSE** when the tape reaches the point at which you want to start copying.

- 5 Press REC on the Combination VCR, and then immediately press PAUSE on the remote control.
- **6** Press PAUSE on both units at the same time to begin copying.

You can edit out unwanted parts of the original recording by using PAUSE (on the Recording unit) while copying is in progress.

7 Press STOP on both units to stop copying.



# **Timer Recording**

Your Combination VCR can be set up to do a recording while you are away or otherwise occupied. Up to 8 programs can be placed in memory. You can choose to record one time, daily, or weekly.

# Check list before you begin.

All connections are made (see page 5).

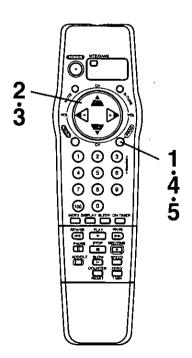
Your Combination VCR is plugged in.

The clock is set.

The tape is long enough.

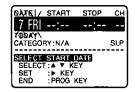
The record tab is in place.





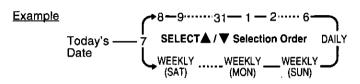
# 1 Press PROG to display the SET PROGRAM screen.

 If a program is already in memory, press ▲▼ repeatedly, and then ► to select an unused program number.



# 2 Press ▲▼ and ► to select and 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



# 3 Press ▲▼ and ► to select and set

each of the remaining items at right.

### Remaining Items:

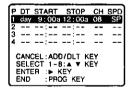
- START time
- STOP time
- CH(annel) number, or LINE for outside source recording
- Category [N/A (not applicable), SPORTS, MOVIE, COMEDY, MUSIC, DRAMA]
- Speed (SP, LP, SLP)

### **To Make Corrections**

Repeatedly press ▶ or ◀ to move the cursor to the right or left, and then make the correction.

# 4 Press PROG to end the program.

This screen appears for confirmation.



### 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 and return to the normal screen.

- . The PROGRAM TIMER indicator lights on the front panel.
- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.

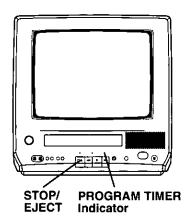
Two minutes before the Timer Recording starts, "TIMER REC WILL START SOON" will appear on-screen.

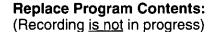
### Cancel a Timer Recording:

(Recording is in progress)

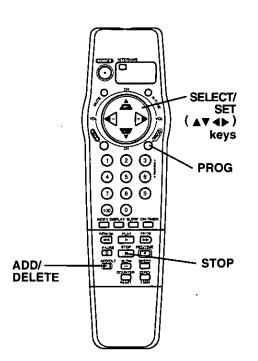
Hold down STOP for a few seconds to cancel the Timer Recording.

 Any future daily or weekly recordings will be performed as programmed.





- 1 Do step 1 on previous page. All currently set programs will be displayed on-screen.
- 2 Press ▲▼ repeatedly to select the desired program, and then press ▶ to display the settings. (See page 18.)
- 3 Press ▲▼ repeatedly to select, and then press
   to enter replacement information.
- 4 Press PROG twice to exit this mode and return to the normal TV screen.





P DT START STOP

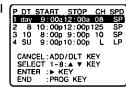
2 8 10:00p12:00p125 3 10 8:00p 9:00p 10 4 SU 9:00p10:00p L

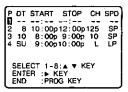
SELECT 1-8: ▲ ▼ KEY ENTER : ▶ KEY END : PROG KEY SP

### Review or Clear Program Contents:

(Recording is not in progress)

- a Do step 1 on previous page. All currently set programs will be displayed on-screen.
- b Press ▲▼ repeatedly to select the desired program number.
- **c** Press the ADD/DLT to clear the program.
- **d** Press PROG to exit this mode and return to the normal TV screen.







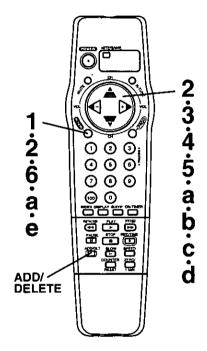
- If "PLEASE PREPARE FOR TIMER REC" appears and/or the PROGRAM TIMER indicator flashes, check that a cassette with record tab is loaded and the Combination VCR is in Stop mode.
- · If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a timer recording comes up during a normal recording or One Touch Recording (page 16), the timer recording will not be performed.
- If there is a power interruption of more than one minute, the recording may not be performed or continue.
- If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.

# SPECIAL Special VCR Features

### **Channel Caption**

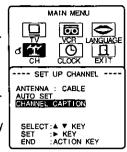
You can set channel names, i.e. ABC. CBS, so that when selected, the channel name and number appear onscreen for easy identification. You can go with preset names (up to 24), or manually create your own (up to 10).

Note: You will need a list of channels received in your area and the channel numbers you receive them on.



### **Preset Caption**

- 1 Press ACTION to display the MAIN MENU.
- 2 Press ▲▼◀▶ to select "CH," and then press ACTION to display the SET UP CHANNEL screen.
- 3 Press ▲▼ to select "CHANNEL CAPTION," and then press ▶ to display the CHANNEL CAPTION screen.



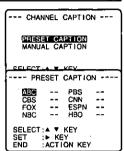
- Press ▲▼ to select "PRESET CAPTION," and then press ➤ to display the PRESET CAPTION screen.
  - · You can set up to twenty-four channel captions. If you want to set a station name other than these, go to the "Manual Caption" section below.
- **5** Press ► to move the shaded area to the right side.

Then, press ▲▼ to change the memorized channel number to match the caption.

Next, press 

to set the memorized channel number.

Now, press ▲▼ to continue. Repeat step 5 until the Caption List is complete.



| PA                     | ESET              | CAPTIO            | ON             |
|------------------------|-------------------|-------------------|----------------|
| TNT<br>UPN<br>WB       | 42<br>35          | CBC<br>CTN<br>TSN | 62<br>21<br>52 |
| DSC<br>CLEAR<br>SELECT | :▲ ▼              | KEY               |                |
|                        | : ≰ KE<br>: ACT I | ON KEY            | 1              |

### To Make Corrections

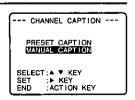
Press ▲▼ and ▶ to select the memorized channel number. Then, press ▲▼ to change, or ADD/DLT to delete the memorized channel number.

Press ACTION four times to exit this mode and return to the normal screen.

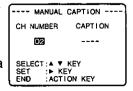
### **Manual Caption**

Follow steps 1~3 in the above section.

D In step 4, press ▲▼ to select "MANUAL CAPTION," and then press to display the MANUAL CAPTION screen.

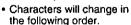


C Press ▲▼ to select "CH NUMBER," and then press > to move the shaded area to the right side.

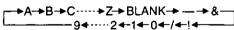


- · Channels already set in the "Preset Caption" section are not displayed.
- You can set a total of ten channel captions with up to four characters each.

**C** Press **A**▼ to select, and then press > to enter each character of the caption.



| ı | MANUAL   | CAPTION |  |
|---|--|---------|--|
| ١ | CH NUMBER  | CAPTION |  |
|   | 02   | Д       |  |
|   | CLEAR :ADD<br>SELECT:▲ ▼<br>SET :◀ ▶<br>END :ACT | KEY     |  |



Now, press 

✓ repeatedly to move the cursor back to "CH NUMBER." Repeat steps c~d as desired.

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.

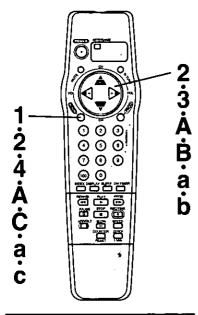
To Clear the caption, press ADD/DLT.

**Press ACTION four times** to exit this mode and return to the normal screen.



The clock is set to correct time.



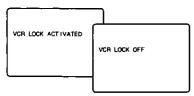


### **VCR Lock Feature**

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 Combination VCR.

Hold down REC/TIME on the Combination VCR without a cassette inserted for 7 seconds during Power On mode.

 "NO CASSETTE PLEASE INSERT A CASSETTE" is displayed when REC/TIME is pressed. Please disregard this warning and continue to hold down REC/TIME for 7 seconds.



To Cancel the VCR Lock feature, with or without a cassette inserted, hold down REC/TIME on the Combination VCR for 7 seconds again during Power On mode.

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

### **Time Stamp Feature**

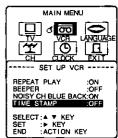
For about the first 10 seconds of each recording, the Combination VCR automatically writes the following program data on the tape: Date, Start time, Scheduled stop time (for Timer Rec. only), Channel No., and Category (for Timer Rec. only). Then, if playback is started at the starting point of the recording, this information will be displayed about 7 seconds after playback begins for a few seconds.

1 Press ACTION to display the MAIN MENU.

2 Press ▲▼ ◀▶ to select "VCR," and then press ACTION to display the SET UP VCR screen.

3 Press ▲▼ to select "TIME STAMP," and then press ► to select "ON" or "OFF."

 When "OFF" is selected, the program data is written on the tape, but will not be displayed for the first 5 seconds of playback.



4 Press ACTION twice to return to the normal screen.

<Time Stamp Example >

Normal/ One Touch Recording

12/28/1998 MON
12:00PM
CH 08 ABC

Timer Recording

12/28/1998 MON
12:00PM — 1:00PM
CH 08 ABC SPORTS

When Clock is not set...

 If the tape speed is changed immediately after recording begins, the display may be incorrect.

### **Blue Back ON/OFF Feature**

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

A Follow steps 1~2 in the above section.

B Press ▲▼ to select "NOISY CH BLUE BACK," and then press ▶ to select "ON" or "OFF."

When "ON" is selected, a solid blue screen appears whenever the signal is weak or nonexistent. When "OFF" is selected, the picture is displayed regardless of the signal condition.



• The picture cannot always be seen clearly when OFF is selected.

Press ACTION twice to return to the normal screen.

### Warning Beeper Feature

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

a Follow steps 1~2 in the above section.

**b** Press ▲▼ to select "BEEPER," and then press ▶ to select "ON" or "OFF."

C Press ACTION twice to exit this screen.

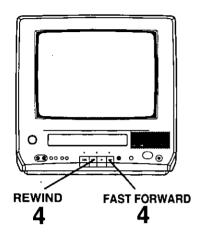


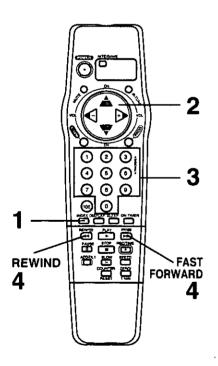


# **Tape Operation**

### VHS Index Search System

Each time you start a recording, an invisible index mark is placed on the tape. When timer recordings are made, program index and program information (see "Time Stamp Feature" on page 21) are also included. You can then use these index marks to access or scan your recordings.

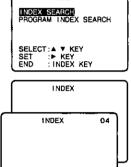




# Direct Access Index Search (For normal and/or timer recordings.)

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

- 1 Press INDEX in Playback or Stop mode to display the INDEX screen.
  - This screen appears only if there are timer recordings on the Program Index list. If this screen does not appear, go to step 3.
- Press ▲▼ to select "INDEX SEARCH," and then press ► to display the INDEX screen.
- 3 Press a NUMBERED key to select the desired recording.
  - To calculate the number, see below.
- 4 Press REW or FF to start a reverse or forward search.
  - When the designated location is reached, the Combination VCR goes into Playback mode.



INDEX

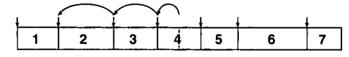


### To calculate the Index Number

Count forward or backward each recording start point, including the recording you want to see, from wherever you are on the tape.

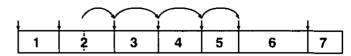
### Example 1:

If you are watching recording 4 and you want to watch recording 2, count the start points to number 2. The total is 3. Enter 3 in step "3" and press REW.



### Example 2:

If you are watching recording 2 and you want to watch recording 6, count the start points to number 6. The total is 4. Enter 4 in step "3" and press FF.

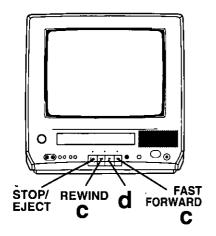


NOTE: 1 indicates start points of each recording.



- · Make each entry within 10 seconds, or the Index Search mode will be cancelled.
- If any of the VHS Index Search System features are initiated extremely close to an index mark, the index mark may not be counted in the search.
- In the Program Index Search mode, this Combination VCR can memorize a total of 8 programs in order of recording. If you memorize more than 8 programs, the first program will be deleted and the new program will be listed.

Timer recordings must be recorded back to back in order for them to be placed on the Program Index list. If a timer recording is followed by a function, such as REW or PLAY the data is lost.

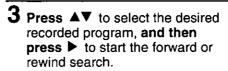




(For timer recordings only.)

This feature allows you to choose a timer recorded program from a Program Index list, and then start a search for that program.

- Once a tape is ejected or normal recording is started, all program index data is erased.
- 1 Press INDEX in Playback or Stop mode to display the INDEX screen.
- 2 Press ▲▼ to select "PROGRAM INDEX SEARCH," and then press ▶ to display the PROGRAM INDEX screen.



 When the designated program is reached, the Combination VCR automatically goes into Playback mode.







(For normal and/or timer recordings.)

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

**a** Press INDEX in Playback or Stop mode to display the INDEX screen.

 This screen appears only if there are timer recordings on the Program Index list. If this screen does not appear, go to step c.

screen does not appear, go to step c.

• Press • to select "INDEX

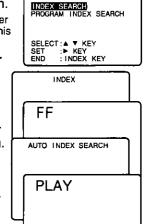
Press ▲▼ to select "INDEX SEARCH," and then press ► to display the INDEX screen.

\_\_\_\_\_

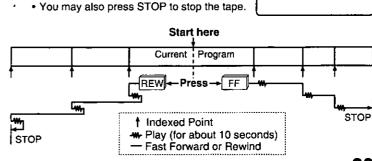
C Press REW or FF to begin the scan.

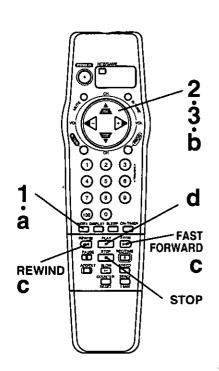
 As each index mark is reached, a short playback will be performed after which FF or REW resumes.

**d** Press PLAY to cancel the scan and begin playback.



INDEX

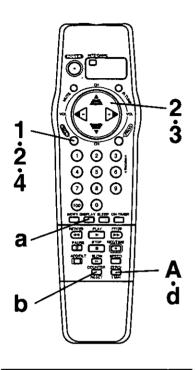






# **Tape Operation (continued)**

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



### Auto Operation Functions

### **Auto Shut Off**

In TV or NITE/GAME mode, when a broadcast signal is not received for 5 minutes, the Combination VCR will automatically power off (except when LINE INPUT is selected).

In Playback mode, when a Video signal is not detected for 5 minutes, the Combination VCR will automatically power off and the tape will be rewound.

 This feature is deactivated when any button on the unit or remote control is pressed even if there is no signal present.

#### **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 or fast forward the Combination VCR will rewind the tape 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 Combination VCR will rewind and then eject the tape.

### **Memory Rewind Off**

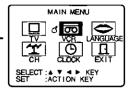
When PÓWER is pressed during tape rewind, rewinding will be completed even though the Combination VCR turns off.

\* For record tab information, see page 25.

### Repeat Play

You can set your Combination VCR up to play a recording over and over.

- 1 Press ACTION to display the MAIN MENU.
- 2 Press ▲▼◀▶ to select "VCR," and then press ACTION to display the SET UP VCR screen.



3 Press ▲▼ to select "REPEAT PLAY," and then press ► repeatedly to select "ON" or "OFF."



• When REPEAT PLAY : ON is selected (the REPEAT indicator lights on the front

panel during playback), the Combination VCR will playback the tape to its end, or until a blank portion of 30 seconds or more is reached. (Erased portions of tape are not considered blank.) The tape is then automatically rewound and played again. This operation is repeated until you cancel Repeat Play.

 All function buttons (REW, FF, etc.) are operational during Repeat Play.

4 Press ACTION twice to return to the normal screen.



You may also turn the repeat play feature on and off at the Combination VCR. During playback, press PLAY/REPEAT on the Combination VCR once or twice until the REPEAT indicator lights up (ON), or goes out (OFF).

### **One Minute Skip**

With this feature, you can skip over commercials recorded on a tape.

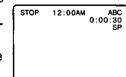
A Press ZERO/1 MIN in Play mode.

 The Combination VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.

### Zero Search

You can reset the Time Counter to zero and then return to that point.

Press DISPLAY to display the Time Counter overlay during playback.

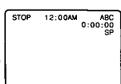


**b** Press COUNTER RESET to reset the Time Counter to "0:00:00" at the desired position.

C Continue playback, rewind, or fast forward.

Press ZERO/1MIN in Stop mode when you want to return to "0:00:00."

 The Combination VCR will go into FF or REW mode and stop at the last point the Time Counter was set to 0:00:00.





### Unit 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 screwdriver.



To record again, cover the hole with cellophane tape.



### DST. (Daylight Saving Time)

Your Combination VCR can be set to automatically adjust the clock for Daylight Saving Time. (page 9.)

### Spring (First Sunday in April)

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

### Autumn (Last Sunday in October)

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

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

### Maximum Record/Playback Time

Only use tapes with the WHS mark in this unit.

| Tape Speed               | Type of Video Cassette |         |                       |
|--------------------------|------------------------|---------|-----------------------|
| Setting                  | T60                    | T120    | T160                  |
| SP ,<br>(Standard Play)  | 1 Hour                 | 2 Hours | 2 Hours<br>40 minutes |
| LP<br>(Long Play)        | 2 Hours                | 4 Hours | 5 Hours<br>20 minutes |
| SLP<br>(Super Long Play) | 3 Hours                | 6 Hours | 8 Hours               |

### Reset all Combination VCR Memory Functions

Use when moving the Combination VCR to a new location, or if a mistake was made in the One Time Setup section.

- · Make sure a tape is not inserted in the Combination
- Press POWER to turn the Combination VCR
- 2) Hold down both the PLAY and REWIND buttons on the Combination VCR for more than 5 seconds.
  - The power will shut off.
- 3) Turn the power back on and perform the One Time Setup section on page 8.

### **Head Cleaning**

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

### **Head Clog Sensor**

If head cleaning becomes necessary, the Combination VCR will display the screen shown to the right during playback of a video tape. To exit this screen, press PLAY on the remote control or Combination 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 cassette 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. (See page 27.)
- \* Cleaning cassette part No. NV-TCL30PT is recommended.

### **Build-in Head Cleaner**

A clean video head helps produce a clear picture. So, we have equipped your Combination 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 Combination VCR to a Service Center.

### **Product Specifications**

Display

Picture Tube:

13 inch measured diagonal 90° deflection Picture Tube

Video Recording System: 2 rotary heads helical scanning

Audio Track:

1 track

Tuner

General

Broadcast Channels: **CABLE Channels:** 

VHF 2~13, UHF 14~69

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

Power Source: Power Consumption: 120V AC, 60 Hz

Approx. 69 watts (Power On) Approx. 5 watts (Power Off) EIA Standard NTSC color

Television System: Speaker:

Dimensions:

1 piece 41°F~104°F (5°C~40°C)

Operating Temperature:

10%~75%

Operating Humidity: Weight:

26. 4 lbs. (12 Kg) 15-3/16" (W) X 15-3/16" (H) X 16-11/16" (D)

386 (W) X 385 (H) X 424 (D) mm

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

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# **Before Requesting Service**

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

| Power   | Correction  |  |
|---|---|--|
| No power  | Completely insert the Power Plug into an AC wall outlet.     Set the POWER button to ON.  |  |
| Monitor   | Correction  |  |
| No picture or sound   | Make sure your antenna or cable system is connected to the Combination VCR. (P. 5)     Check that the power plug is completely plugged into an AC outlet.     Check that the POWER button is set to on.   |  |
| Poor picture with normal sound  | Adjust the BRIGHT, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P.12)  |  |
| Poor sound with normal picture  | Adjust the VOLUME control. (P.11)   |  |
| Poor TV reception   | Adjust the SHARPNESS and PICTURE controls in the SET UP TV menu. (P.12)   |  |
| No color or poor color  | Adjust the TINT and COLOR controls in the SET UP TV menu. (P.12)  |  |
| Ghost (multiple) images   | Install a directional antenna.  |  |
| TV programs cannot be watched   | Make sure that the channel being received is in the Combination VCR's memory. (P. 8)  |  |
| Channel can not be selected   | The design of this unit is such that only the channel being recorded can be viewed.   |  |
| VCR   | Correction  |  |
| TV program cannot be recorded   | Make sure your antenna or cable system is connected to the Combination VCR. (P. 5)     Make sure that the record tab is intact on the cassette. (P. 25)   |  |
| Timer recording cannot be performed   | <ul> <li>Set the recording Start/Stop time correctly. (P.18-19)</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, after power is restored.</li> </ul>   |  |
| No playback picture, or the playback picture is noisy or contains streaks                         |   |  |
| VCR cannot be controlled  | Make sure that VCR LOCK is set to off. (P. 21)  |  |
| Remote Control  | Correction  |  |
| Combination VCR cannot be controlled  | <ul> <li>Aim the Remote Control directly at the remote sensor on the Combination VCR. (P. 7)</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. 21)</li> <li>Exposing the Combination VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul> |  |
| Miscellaneous   | Correction  |  |
| Video cassette cannot be inserted   | Insert the cassette window side up; record tab facing you.  |  |
| Video cassette cannot be removed  | Check that the power plug is completely plugged into an AC outlet.  |  |
| Eject does not function or insertion cannot be done   | Turn the POWER off and then on, and try ejecting or inserting the tape again.   |  |
| 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. 25)   |  |
| In stop mode, the VCR motor (CYLINDER) continues to rotate  | <ul> <li>To enable the quick play mechanism, the VCR cylinder will rotate for about 5<br/>minutes. This reduces response time from Stop to Play mode and from Play to<br/>Rewind Search mode.</li> </ul>  |  |
| VCR cannot be controlled  | Make sure that VCR LOCK is set to off. (P. 21)  |  |

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 201-348-9090.

To locate an authorized servicenter call toll free 1-800-211-PANA(7262).

### Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 800-211-PANA (7262), Monday-Friday 9 am-9 pm Saturday-Sunday 9 am-7 pm, EST.

Web Site: http://WWW.Panasonic.com You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

### Factory Servicenters Locations

### **CALIFORNIA**

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

### **COLORADO**

1640 South Abilene Street Suite D Aurora, CO 80012

### **FLORIDA**

3700 North 29<sup>th</sup> Avenue Suite 102 Hollywood, FL 33020

### **GEORGIA**

8655 Roswell Road Suite 100 Atlanta, GA 30350

### **ILLINOIS**

1703 North Randall Road Elgin, IL 60123 (Pick-up/Drop-off only)

9060 Golf Road Niles, IL 60714

### **MARYLAND**

62 Mountain Road Glen Burnie, MD21061

### **MASSACHUSETTS**

60 Glacier Drive, Suite G Westwood, MA 02090

### **MICHIGAN**

37048 Van Dyke Avenue Sterling Heights, MI 48312

### **MINNESOTA**

7850-12<sup>th</sup> Avenue South Airport Business Center Bloomington, MN 55425

### OHIO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

### PENNSYLVANIA

2221 Cabot Blvd West Suite B Langhorne, PA 19047

Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017

### **TENNESSEE**

919-8th Avenue South Nashville, TN 37203

#### **TEXAS**

7482 Harwin Drive Houston, TX 77036

13615 Welch Road Suite 101 Farmers Branch, TX 75244

### WASHINGTON

20425-84th Avenue South Kent, WA 98032

#### HAWAII

99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369

### Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicenter: Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787) 750-4300 Fax (787) 768-2910

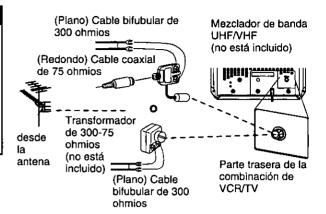
### **Accessory Purchases:**

Customer Orders Only 800-211-PANA(7262)

# Spanish Quick Use Guide/Guía para rápida consulta

### Conexión de la antena externa

Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente y conéctela a la parte trasera del registrador Combinación de VCR/TV, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un mezclador de banda UHF/VHF (no viene con el equipo).



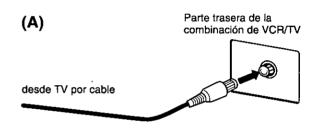
### Conexiones de TV por cable

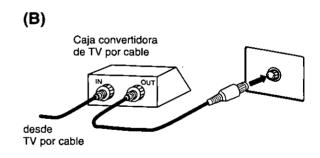
### (A) Sin la caja convertidora/ decodificadora

Con esta conexión usted podrá utilizar su control remoto de la combinación de VCR/TV para seleccionar los canales que desea ver y seleccionar canales no codificados para su grabación programada. Esta conexión no permite ver ni grabar canales codificados.

### (B) Con una caja convertidora/ decodificadora

Con esta conexión, usted podrá grabar y ver cualquier canal, incluyendo los canales codificados. Sin embargo, la selección de canales se debe efectuar en la caja convertidora de TV por cable que suministra esta empresa. La grabación programada está limitada a un canal cada vez, y sólo se podrá ver el canal que esté grabando.





# Para ver y grabar un canal codificado/ no codificado

Sintonice el canal del Registrador de la combinación de VCR/TV en el canal de salida de la caja convertidora de televisión por cable (por ejemple el canal 3). Después, seleccione en la caja convertidora de TV por cable el canal que se quiera ver o grabar.

### Para fijar el idioma, canal y reloj

Al encender la combinación de VCR/TV por primera vez, aparecerán las pantallas para fijar automáticamente los canales y el reloj.

- 1 Oprimir POWER para encender el aparato.
- 2 Oprimir CH ▲▼, o VOL▶ para la exhibición de la pantalla en inglés, español o francés.



Importante: si está usando una caja de TV por cable, encienda la caja y sintonice al canal PBS de su zona.

3 Oprimir CH ▲ para iniciar la fijación de los canales y el reloj.

Las siguientes informaciones aparecerán seguidamente:

FIJACION AUTO. (CA/RELOJ)

CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

- AUTOPROGRAMACION EN PROCESO
- AUTOPROGRAMACION COMPLETO
- FIJACION AUTOMATICA DEL RELOJ EN PROCESO



4 Caso 1 Si la hora demostrada es correcta, oprima CH ▲ para salir.

#### 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:

- Tome nota del canal que está fijado en la pantalla y salga desde este modo oprimiendo el botón .
- Anule este canal desde los canales memorizados en la combinación de VCR/TV.
- c. Oprima el botón ACTION para que aparezca la pantalla del MENU.
- d. Oprima ▲▼◀► para elegir "RELOJ" y luego oprima ACTION para que aparezca la pantalla de FIJACION DEL RELOJ.
  - Si ud. esta usando una caja de TV por cable y tiene muchos canales PBS, sintonice la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez usando el menú.
- e. Oprima ▲▼ para elegir "FIJACION AUTOMATICA", luego oprimir
   b para fijar y oprimir ▲ para iniciar.

Caso 2

Si aparece FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO, por favor fije el reloj manualmente.

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

### Para hacer correcciones,

Oprimir ◀► repetídamente para retroceder o avanzar hasta el paso que desea corregir.

 c. Oprimir ACTION para iniciar a funcionar el reloj. Luego oprimir
 ▲▼◀► para elegir "SALIR" y oprimir ACTION para salir de la pantalla del MENU PRINCIPAL.

### Para fijar o fijar de nuevo el reloj

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

- Oprima ACTION para que parezca el MENU PRINCIPAL.
- 2 Oprima ▲▼◀► para elegir "RELOJ". Luego, oprima ACTION para que aparezca la pantalla de la FIJACION DEL RELOJ.
- 3 Oprima ▲▼ para elegir "MANUAL", y luego ► para que aparezca la pantalla de



la FIJACION DEL RELOJ.

4 Por favor continue con los pasos b. y c. de la instrucción anterior (Caso 2).

### Operaciones para ver la TV

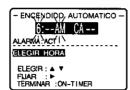
- 1 Oprimir POWER para encender la combinación de VCR/TV.
- 2 Elegir el canal usando CH ▲▼ o usando la teclas numéricas.
- 3 Oprimir VOL ◀▶ para ajustar el nivel del volumen.

# Spanish Quick Use Guide/Guía para rápida consulta

### Encendedor automático con alarma

La combianción de VCR/TV se puede fijar para que se encienda automáticamente en uno de los dos modos (TV o reproducción). Ud. también puede combinar con un alarma despertador de un minuto.

1 Oprimir ON TIMER para que aparezca la pantalla del encendedor automático.



2 Oprimir ▲▼ para elegir y oprimir ▶ para fijar la hora del encendedor automático y luego para elegir el modo (TV o reproducción).



- Asegúrese de que una cinta de video esté introducido en la combinación de VCR/TV, si ha elegido la reproducción de la videograbadora.
- 3 Oprimir ▲ para elegir la fijación del alarma.

Si ha elegido "ACT", sonará un alarma por un minuto o hasta cancelar oprimiendo cualquiera de las teclas del control remoto. Cuando se apaga el alarma, sonará el sonido del modo que ha elegido.



### Para hacer correcciones.

use ▲▼ y ◆▶ para retroceder o avanzar como se necesita.

4 Oprimir ON TIMER para fijar la función del encendedorautomático. Esta pantalla aparecerá cerca de 5 segundos.



 El indicador de ON TIMER (encendedor automático) se encenderá en el panel delantero.

#### Para cancelar.

oprima ON-TIMER para que aparezca de nuevo la pantalla del paso 3. Luego, oprima ADD/DLT para anular la hora ("6" destellará). Ahora, oprima ON-TIMER para terminar. "ENCENDIDO AUTOMATICO ANULADO" aparecerá unos segundos en la pantalla.

60 minutos luego de que la combinación de VCR/TV se ha encendido automáticamente, éste se apagará por sí mismo si no se ha oprimido ningún botón del control remoto o del aparato.

# Fijación del temporizador para dormir

La combinación de VCR/TV se puede fijar para que se apaque automáticamente.

# Oprimir SLEEP para que aparezca el tiempo de la fijación.

 Si ud. oprime el botón DISPLAY con el temporizador para dormir fijado, aparecerá en la pantalla el tiempo que sobra para apagarse TEMPORIZADOR PARA DORMIR 30 TEMPORIZADOR PARA DORMIR 60 TEMPORIZADOR PARA DORMIR 90 TEMPORIZADOR PARA DORMIR 00

#### Para cancelar.

oprimir SLEEP sucesivamente hasta que aparezca "TEMPORIZADOR PARA DORMIR 00".

# Operaciones básicas para la reproducción

- 1 Introducir una cinta.
  - La combinación de VCR/TV se enciende automáticamente.
- 2 Oprimir PLAY en el control remote o combinación de VCR/TV para comenzar a reproducir.
  - Si la cinta no tiene la lengüeta para evitar el borrado, la combinación de VCR/TV comienza a reproducir automáticamente.
- 3 Oprimir STOP en el control remote o combinación de VCR/TV para parar la reproducción.
  - · Para rebobinar la cinta, oprimir REW.
- 4 Oprimir STOP/EJECT en la combinación de VCR/TV para expulsar la cinta.
  - Usted puede expulsar la cinta cuando el aparato está encendido o apagado.

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

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

 La velocidad de la búsqueda es a 21 veces más rápida en el modo SLP.

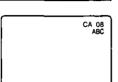
# Operaciones básicas para la grabación

Introducir una cinta de video <u>que tenga la lengüeta para evitar el borrado.</u>



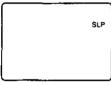
 La combinación de VCR/TV se enciende automáticamente.

- 2 Oprimir ▲▼ o las teclas numéricas para elegir un canal.
  - U oprimir ▲▼ de la combinación de VCR/TV.
  - Para grabar desde una fuente externa, oprimir
     ▲▼ y elija LINEA.

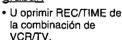


3 Oprimir SPEED hasta que aparezca la velocidad deseada.

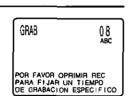
SP = reproducción normal LP = reproducción larga SLP = reproducción super larga



4 Oprimir REC/TIME del control remoto para empezar a grabar.



 Oprimir PAUSE para hacer una pausa en la grabación de un toque.



### Garabación de un toque (OTR)

La combinación de VCR/TV se puede fijar para parar la grabación a una hora fijada anteriormente.

En el paso 4, oprimir repetídamente REC/TIME para fijar el tiempo de grabación.

 La luz indicador de la grabación programada (TIMER) se enciende en el panel delantero.

- 5 Oprimir STOP para parar la grabación.
  - U oprimir STOP/EJECT de la combinación de VCR/TV.

### Grabación con temporizador

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



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 DOM~SAB = 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
- Categoria (NO, DEPOR, CINE, COMEDI, MUSICA, DRAMA)
- 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 programacieón en blanco y luego repita los pasos 2 y 3.

- 5 Oprimir PROG para salir desde este modo y volver a la pantalla normal.
  - La luz indicador de la grabación programada (TIMER) se enciende en el panel delantero.
  - Si ud. está usando una caja de TV por cable, asegúrese de que esté sintonizado el canal deseado y que esté encendido para la grabación con temporizador.

Dos minutos antes de empezar la grabación, "GRABACION PROGRAMADA INICIARA ENSEGUIDA" aparecerá en la pantalla.



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 Infanteria, 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> | <u>PARTS</u>   | <u>LABOR</u>  |
|----------------|--|---|
| CAMCORDER      | ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6)MONTHS | NINETY (90) DAYS<br>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<br>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

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