

Omnivielon WS

# **Panasonic**

Video Cassette Recorder Operating Instructions Models No. PV-V4611



Connections and Initial Setup Procedures are on pages 8 to 11.

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.





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 incluida.)

LSQT0367A

# Important Safeguards and Precautions

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

#### INSTALLATION

#### 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 Poducts 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 PLUGCAUTION:

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 POWERCORD

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.
- on a bed, sofa, rug, or other soft surface.
   b. Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

# 5 AVOID EXTREMELY HOT LOCATIONS OR SUDDENTEMPERATURE CHANGES

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

#### 6 TO AVOID PERSONAL INJURY

 Do not place unsecured equipment on a sloping surface.

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

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 overtum.

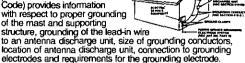
 Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

#### OUTDOOR ANTENNAINSTALLATION

#### 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

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



2 KEEPANTENNACLEAROFHIGHVOLTAGEPOWERLINESORCIRCUITS 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 push any object through openings in the unit.
   Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

#### 5 USING ACCESSORIES

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

#### 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

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

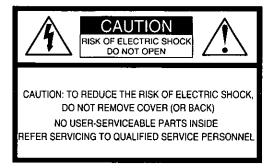
# **Safety Precautions**

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

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.





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.

### Note to CABLE system installer:

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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

# **Before Using**

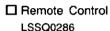
## **Congratulations**

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

٠	Date	of	Pu	rch	ase

- Dealer Purchased From \_\_\_\_\_\_\_
- Dealer Address \_\_\_\_\_
- Dealer Phone No. \_\_\_\_\_\_
- Model No.
- · Serial No.

### **Accessories**





□ Batteries 2 "AA"

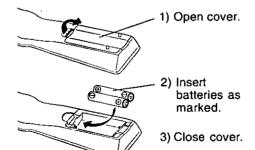


☐ RF Coaxial Cable VJAS0196



To order accessories, call toll free 1-800-332-5368.

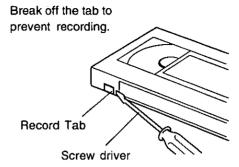
## **Loading the Batteries**

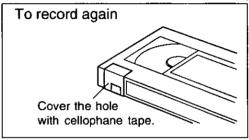


#### □ Battery replacement caution

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

#### **Prevent Accidental Tape Erasure**





## Record/Playback Time

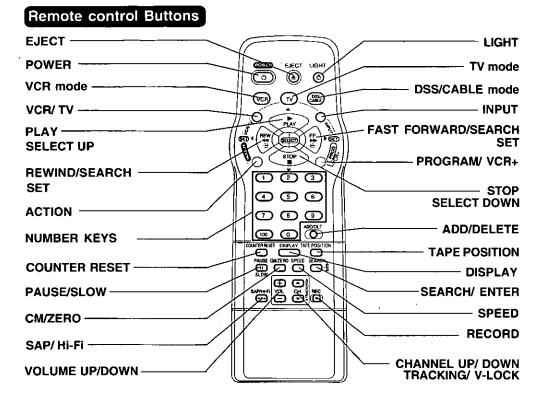
Only use tapes with the WHS mark in this unit.

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

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# **Location of Controls**



Light Tower Universal Remote Control

Light button: When LIGHT is pressed, available buttons in the selected mode light up and the selected mode button (TV/VCR or DSS CABLE) flashes for 5 seconds. If no button

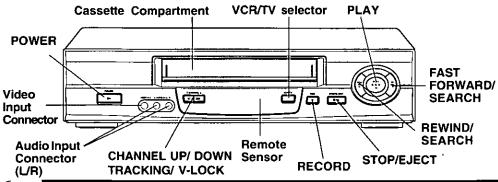
is pressed, light goes out in 5 seconds to conserve batteries. Also, by holding down a button, you can confirm the selected mode (mode button will flash) in the dark.

EJECT button: Press to eject tape from VCR. If EJECT is pressed during record,

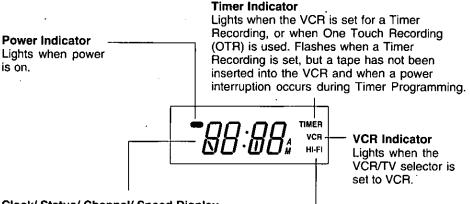
VCR will not respond.

## Front View of the VCR

6



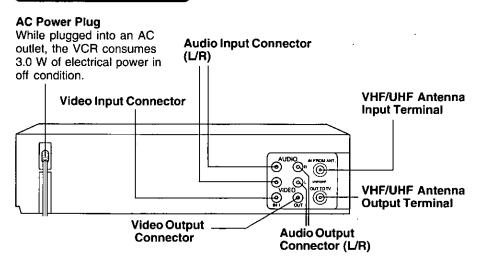
# Multi Function Display



Clock/ Status/ Channel/ Speed Display
Displays the current time. Briefly displays VCR
status when a function button is pressed. Briefly
displays the channel number, or "L1" or "L2"
when a channel or line input is selected. Briefly
displays the recording speed when SPEED is
pressed.

#### Hi-Fi Indicator Lights when Hi-Fi audio is monitored in Playback Mode.

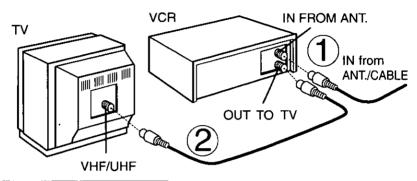
## Rear View of the VCR



# Initial Setup for ANT/Cable - VCR - TV Connection

## **How to Connect**

- Connect the Cable from Antenna/Cable to the IN FROM ANT. terminal on VCR.
- Connect the OUT TO TV terminal on the rear of VCR to the ANT. IN terminal on TV using the RF Cable (included accessory).



# How to do Initial Setup

Press VCR\* for VCR mode, Turn the TV on and set it to channel 3.

Turn VCR on. When VCR is turned on the first time, SELECT LANGUAGE screen appears.

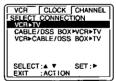
SELECT LANGUAGE PRESS CH ▲ : ENGLISH OPRIMIR CH ♥ : ESPAÑOL APP. VCR/TV : FRANÇAIS TO CHANGE VCR'S OUTPUT CH, PRESS ACTION KEY.

- If screen does not appear, check connection between VCR and TV and, if TV is tuned to channel 3, try switching it to channel 4.
- When you want to change the output channel of VCR, please refer to VCR's Output Channel on page 13.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 9.

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

Press CH▲ to select English. Press CH▼ to select Spanish.

> Press VCR/TV key to select French. When one of above keys is pressed. SELECT CONNECTION screen is displayed in the selected language.



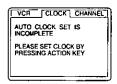
Press ▲ ▼ to select connection and press ▶ to set. CHANNEL/CLOCK AUTO SET screen appears.



Press CHA Key to start Channel/Clock Auto Set operation. Settings are performed automatically. If the setup is completed, the following screen is displayed.



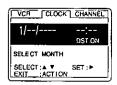
If "Auto Clock Set is Incomplete" screen appears, set the clock using MANUAL CLOCK SET procedure shown below.



# Manual Clock Set

If Auto Clock Set was incomplete, manually set the clock as follows.

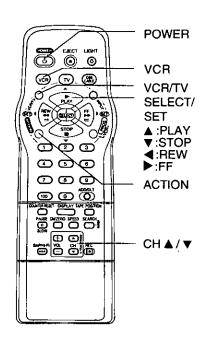
Press ACTION Key on the Remote to display CLOCK Menu screen.



Press ▲ ▼ to select the month and ► to set. In the same manner, select and set the date, year, time, and DST (daylight saving time).



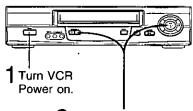
Press ACTION Key twice to start CLOCK and exit.



## Reset All VCR Memory Functions

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

 Make sure a tape is not inserted in the VCR.



Press and hold both
PLAY and CHANNEL

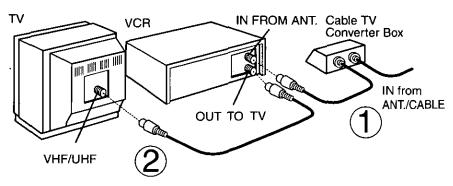
on the VCR for
more than 5 seconds.
The power shuts off.

3 Do "Initial Setup" on page 8.

# Initial Setup for DSS/Cable Box-VCR-TV Connection

## How to Connect

- Connect the OUT Jack on your cable box to the IN FROM ANT, terminal on the VCR with an RF cable.
- Connect the OUT TO TV terminal on the rear of VCR to the ANT. IN terminal on TV using the RF Cable (included accessory).



# How to do Initial Setup

Press VCR\* for VCR mode. Turn the TV on and set it to channel 3.

Turn VCR on. When VCR is turned on the first time, SELECT LANGUAGE screen appears.

SELECT LANGUAGE PRESS CH A : ENGLISH OPRIMIR CH ▼ : ESPAÑOL APP, VCH/TV : FRANÇAIS TO CHANGE VCR'S OUTPUT CH, PRESS ACTION KEY.

- If screen does not appear, check connection between VCR and TV and, if TV is tuned to channel 3, try switching it to channel 4.
- When you want to change the output channel of VCR, please refer to VCR's Output Channel on page 13.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 9.

BOX►VCR►TV" connection and press > to set.

Press CH▼ to select Spanish. Press VCR/TV key to select French. When one of above keys is pressed, SELECT'CONNECTION screen is displayed in the selected language.

Press CH▲ to select English.



Press ▲ ▼ to select "CABLE/DSS

VCR CLOCK CHANNEL SELECT CONNECTION CABLE/USS BOXAVCRATV CABLE/DSS BOX OUTPUT CH SELECT: A T

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

5 Confirm the output channel of your cable box or DSS receiver. Press CH ▲ ▼ Keys to select the same channel as the cable box or DSS receiver output channel. Press ▶ to enter.



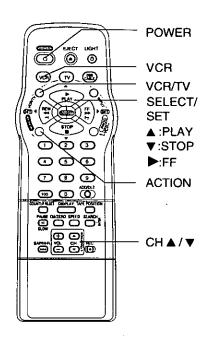
Turn on your cable box and set it to your Public Broadcasting Station (PBS) channel in your time zone. If you use DSS receiver, it must be turned off.

Press CH & Key to start Channel/Clock Auto Set operation. The Channel/Clock Setting is performed automatically. If the setup is completed, the following screen appears.



If "Auto Clock Set is Incomplete" screen appears, set the clock using MANUAL CLOCK SET procedures shown on page 9.





# Reset Language, Channels, Clock,

1

PVCR CLOCK CHANNEL REPEAT PLAY : OFF REMOTE WARNING ON AUTO SHUT-OFF : ON IDIOMA/LANGUE : ENGLISH VCR'S OUTPUT CH :3

SELECT : A ▼ 4 ► EXIT : ACTION

**Press ACTION\*** 

to display menu.

2

# Language

 Press ▲▼ to select language item.



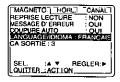
2) Press ▶ repeatedly.



For English



For Spanish

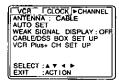


For French

Press ACTION to exit.

## Channels

 Press ◀► to select CHANNEL.



 Press ▲▼ to select "ANTENNA," then press ► to set your antenna system (TV or CABLE).



- 3) Press ▲▼ to select "AUTO SET," then press ▶.
- If you use a cable box, set it to the PBS channel in your time zone.

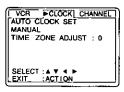


(This screen appears only when auto clock is set.)

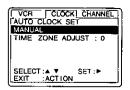
- Press CH ▲.
- After Channel Auto Set is finished, Clock Auto Set will be performed.

#### Clock

 Press ◀► to select CLOCK.



2) Press ▲▼ to select
MANUAL and press ▶.
(For Auto Clock Set,
select "AUTO CLOCK
SET," then press CH ▲.)



("TIME ZONE ADJUST" appears only when auto clock is set.)



- Press ▲▼ and ◀► to select and set the date, time, and DST (Daylight Saving Time).
- Press ACTION twice to start the clock and exit this mode.

POWER VCR SELECT/

NUMBER

ACTION

DELETE

CH ▲ / ▼

keys

ADD/

SET ▲:PLAY ▼:STOP **∢**:REW ▶:FF

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AD.

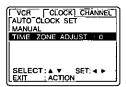
# VCR's Output Channel

#### ■Time Zone Adjust ■ VCR's Output Channel (Only when Auto Clock is set.)

 Press ◀▶ to select CLOCK.



Press ▲▼ to select TIME ZONE ADJUST



and press **◄** or **▶** to subtract or add hour(s) as necessary.

- Press ACTION.
- 4) Press POWER off to perform AUTO CLOCK SET.
- TIME ZONE ADJUST returns to "0" if clock is set manually.

1) Press ▲▼ to select VCR'S OUTPUT CH.



Press ▶.



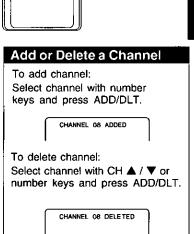
Press ACTION.



After 3 seconds



 To Make Corrections. repeat step 1) ~ 3).



## **DST (Daylight Saving Time)**

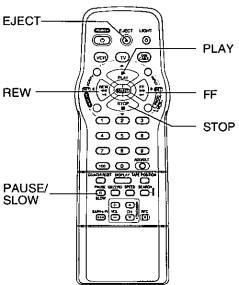
VCR auto adjusts clock for DST. (Page 9.)

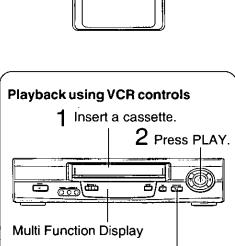
Spring (First Sunday in April) DST:ON --> Sets clock ahead one hour.

Autumn (Last Sunday in October) DST:ON --> Turns clock back one hour.

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

# Playback a Tape





Press STOP/EJECT to stop

and/ or eject tape.

# Ready Check List

All connections are made (pg. 8, 10, 22).

☐ TV and VCR are plugged in.

☐ TV is on and tuned to CH3, 4, or VIDEO.
☐ Remote is in VCR mode. (Press VCR)

Insert a tape,

VCR power comes on.
 "VCR" lights on Multi Function Display.

Press PLAY\* to play tape.

If tape has no rec. tab (pg. 4), auto play begins.

# Special Features During Play

Forward/ Reverse scene search

--> Press FF or REW.

--> Press again or PLAY to release.

Still (Freeze) picture

--> Press PAUSE/SLOW.

--> Press PLAY to release.

Frame by Frame picture

--> Press PAUSE/\$LOW in Still mode.

--> Press PLAY to release.

Slow Motion picture

--> Hold down PAUSE/SLOW in Still mode.

--> Press PLAY to release.

Notes

These features work best in SP or SLP mode.

The sound will be muted.

 To reduce picture noise, see "Manual Tracking Control" on page 29.

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

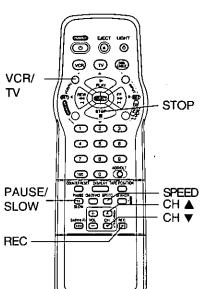
Press STOP to stop tape.

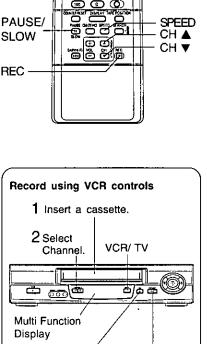
Press REW or FF in Stop mode to Rewind/ Fast Forward tape.

Press EJECT on remote, or STOP/EJECT on VCR to eject tape.

Note Remove loose or peeling labels from tapes to prevent tape jam.







This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the WHS mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

4 Press REC

Recording.

to start

# Ready Check List

- ☐ All connections are made (pg. 8, 10, 22). ☐ TV and VCR are plugged in.
- ☐ TV is on and tuned to CH3, 4, or VIDEO.
  ☐ Remote is in VCR mode. (Press VCR)
- Insert tape with rec. tab (pg. 4).
  - VCR power comes on.
     "VCR" lights on Multi Function Display.

# Press CH AV, or number keys to select channel.

- . For "LINE" input, see pg. 28.
- For channels over 100, press 100 key then press the remaining 2 digits.

### **?** Press SPEED

to select record speed (pg. 4).

SP = Standard Play

LP = Long Play

SLP = Super Long Play

Speedappears on-screen and on Multi Function Display.

### ✓ Press REC

to start record.

 To edit out unwanted scenes, press PAUSE/ SLOW to pause, and again to resume recording.

#### Press STOP

to stop record.

- One Touch Recording (record in progress),
  - VCR shuts off after preset record length.
  - --> each press of REC adds 30 min. to record length up to 4 hours.
- Record one station, watch another,
  - --> press VCR/TV ("VCR" goes out on Multi Function Display),
  - --> select channels at TV (recording continues).

### Note

5 Press STOP/

EJECT to

stop.

 Watching one channel and recording another is NOT possible when using a Cable Box or a Satellite Receiver.

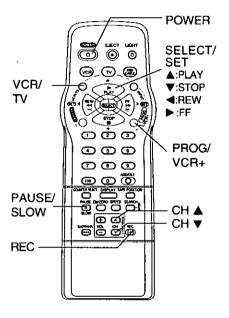
#### Select channels at VCR.

- Other channels cannot be viewed during recording.
- --> press VCR/TV ("VCR" lights on Multi Function Display),
- --> select channels at VCR.

Note

 After 5 min. in Pause mode, VCR stops to protect tape and video head.

# Timer Recording



# Meady Check List

- All connections made (pg. 8, 10, 22).
- ☐ TV and VCR plugged in and turned on.
- □ VCR/TV selector set to "VCR."
- □ Clock set correctly.
- Tape has rec. tab (pg. 4).
- Remote in VCR mode. (Press VCR)

SET:

# Press PROG/VCR+\*

to display PROGRAM.



Press ▼ to display Program screen.



- 1) To set record DATE, press ▲▼ to select: 1~31= one time, or DAILY= MON~ FRI, or WEEKLY= same time each week
- and press to set. See selection order below left.
- Example Today -SELECT▲ / ▼ Selection Order DAILY WEEKLY ..... WEEKLY \_\_\_ WEEKLY (SAT) (MON) (SUN)

2) To set remaining items, press ▲▼ to select and press ▶ to set START/ STOP times. CH(channel) or LINE input (pg.28), and tape speed (SP, LP, SLP).

Press PROG/VCR+ to end program.

#### Timer Programming Channel(Step 3) must be set to the Cable Box output channel AND your Cable Box must be

If you are using a Cable Box, VCR

manually set to the desired channel. The Cable Box power left on.

 If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please reenter the timer programs.



To Enter More Programs, press ▲▼ to select and press ▶ to set an unused program number and repeat step 3.

Press PROG/VCR+ again to exit.

**Press POWER off** to set the timer. ("TIMER" lights on Multi Function Display.)

Notes

# Review, Replace or Clear Program Contents:

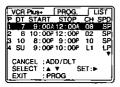
(Recording is not in progress)



- 1) Press PROG/VCR+.
- Press ◀▶ to select LIST.

To cancel a Timer Recording in progress...

Press POWER and then STOP within 10 seconds to cancel the Timer recording. (The TIMER) indicator goes out on Multi Function Display.)



Press ▲▼ to select number.

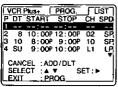
To Replace program...



- 1) Press▶ to display.
- 2) Repeat Step 3 (pg.16) to set new programs.

or

To Clear program...



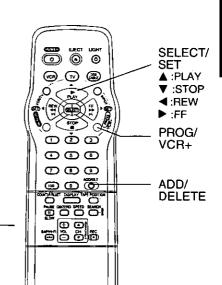
Press ADD/DLT.

 If there are set programs, press POWER off to set timer.

Press PROG/VCR+ to end the program.

## Important notes when using a DSS receiver -

- When recording programs via a DSS receiver, the DSS receiver must be left on.
- When recording programs via an antenna or cable, the DSS receiver must be turned off.



# Timer Recording Using VCR Plus+® System

VCR Plus+ System is ...

a feature that allows you to set most items of a timer recording by simply entering a special code number (PlusCode programming number) found in TV GUIDE and selected newspaper TV listinas.

Initial Setup.....

In order to use Timer Programming Using VCR Plus+, the Initial Setup on page 8 to 11 must be completed for setting Clock and Channel.

Channel Setup.....

Since Plus Code numbers assigned to channels (found in TV Guide and selected newspapers) may differ from channels in your viewing area, you'll need to enter your local TV channel number for each corresponding Guide Channel.

If you perform the VCR+ Channel set up procedures shown below, you will be able to perform timer

recordings using the VCR+ code-programming number listed in your local TV listing.

# VCR Plus+ Channel Setup

For [VCR-TV] or [VCR-cable box-TV] connection only.

To complete step 4 of setup, do the following:

- Prepare a TV/Cable station line-up and channels they are received on. Also, the Guide (PlusCode) numbers assigned to your stations (found in TV Guide and selected newspapers.)
- Make a 3-column chart (see sample). Left column --> all stations you receive. Middle column --> each station's assigned Guide (PlusCode) number from TV Guide, etc.

Right column --> channel number on which your TV receives the station.

PVCR COCK CHANNEL
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : ON
IDHOMALANGUE : ENGLISH
VCR'S OUTPUT CH : 3 SELECT : A \* 4 EXIT . : ACTION

Press ACTION\* to display menu.

VCR CLOCK FCHANNEL
ANTENNA: CABLE
AUTO SET
WEAK SIGNAL DISPLAY: OFF
CABLEDOSS BOX SET UP
VCR Plus+ CH SET UP SELECT: A ▼ ◀ ► EXIT\_ :ACTION

Press **◆**▶ to select CHANNEL.



Press ▲▼ to select VCR Plus+ CHANNEL SETUP, and press ▶ to set.

#### SAMPLE ONLY

Broadcast or Cable station name	Assigned Guide (PlusCode) channel No.	Channel No. on which my TV receives the station.
HBO	33 <	15 🔍
Nickelodeon	38	20
CBS	04	04
FOX	11	

VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

VCR CLOCK CHANNEL GUIDE CH RECEIVE CH TOTAL FOLOCK TOHANNEL

GUIDE CH RECEIVE CH CLEAR :ADD/DLT SELECT : A ▼ SET: ◀ EXIT :ACTION

To enter VCR Plus+ channels.

press ► to move cursor to right, press ▲▼ to enter number, press < to set, and press ▲▼ to scroll up/down.

 Repeat step 4 until list is complete.

To Make Corrections, press ▲▼ and ► to move to error, then ▲▼ to change, or ADD/DLT to erase number.

Press ACTION twice to end setup.

## VCR Plus+ Programming

# Ready Check List

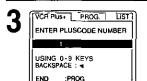
- Clock is set.
- VCR Plus+ Setup is complete (see page 18).



Press PROG/VCR+ to display PROGRAM.



Press **◆** ▶ to select display VCR Plus+ screen.



If the Pluscode

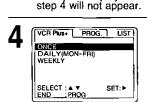
number entered

to step 5. Display in

Press number keys to enter PlusCode number.

To Make Corrections. press ◀ repeatedly to delete number, then repeat step 3.

press PROG/VCR+ to set. begins with "0," skip



#### Press ▲▼

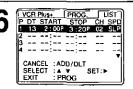
to select ONCE, DAILY(MON~FRI), or WEEKLY record frequency and press to set



#### Press **▲**♥

to change record speed and press > to set.

Press PROG/VCR+ to end program.



Press PROG/VCR+ again to exit.

Press ADD/DLT

to delete the program.

#### SELECT/ SET <u>(3</u>) 0 ▲:PLAY 0 ▼:STOP **⊘** ⊕ **®** ■:REW ▶:FF PROG/ VCR+ <u>യ</u>യ് ത NUMBER keys യ യ മ © © ® ACTION \_\_\_\_ ADD/ 0 0 6 6 6 DELETE

**POWER** 

#### Do normal Timer Record if...

- PlusCode number is not listed for program.
- program (e.g. sports event) may run over set stop time.

#### See page 17 to:

- cancel a timer recording in progress.
- review, replace, or clear program. contents.

#### Important for DSS/Cable Box Users

- When recording via DSS, the receiver must be left on. When recording via cable or antenna, DSS receiver must be off.
- · When recording via a cable box, leave box on and tuned to channel to be recorded.

#### Notes

- Do not overlap program times.
- VCR PlusCode numbers cannot be used to program VCR to record DSS and cable box channels.
- Make each entry within 1 minute or the VCR will exit setup mode.
- Once VCR Plus+ channel setup is done, channels stay in memory. If a power interruption occurs, VCA Plus+ channel setup may be lost. Please do VCR Plus+ channel setup again.
- Obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs about \$.95 per minute.

# **Multi-Brand Control Feature**

#### Multi-Brand Control Setup

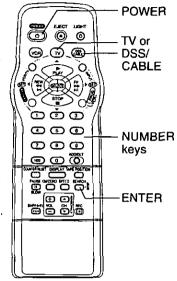
The Remote Control can be set to control some TV and Cable box/DSS functions.

Find your TV and Cable Box/DSS Receiver Brand Code Number on following page.

- Setup for TV control, -->hold down TV button, -->enter code with number keys.
  - Setup for Cable or DSS control, -->hold down DSS/CABLE button, -->enter code with number keys.
    - If code number is100 or greater,
       -->press 100 key, then other digits.
       E.g., press 100 0 2 for 102.
- Confirm code entry,
  - -->press POWER to turn selected unit on or off.
  - See table below for controllable functions in each mode.

Notes

- Repeat setup after remote battery replacement.
- Remote will not control every TV, cable box, or DSS made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.



#### **Using Multi-Brand Control**

After remote is set up, you can select VCR, TV, or DSS/ CABLE for the desired function.  $\dot{}$ 

Press VCR, or TV, or DSS/CABLE on the remote. (Table below shows available unit buttons for each mode.)

Unit	VCR	τv	CABLE/ DSS
VCR	All	VOL UP/DOWN	
TV	VCR/TV, PLAY, STOP EJECT, SAP/ Hi-Fi, DISPLAY, FF, REW, PAUSE/	POWER, INPUT, number keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS	SLOW, REC, SPEED, CMZERO, RESET COUNTER, TAPE POSITION	VOL UP/ DOWN	POWER, ENTER, number keys (except 100key), CH UP/ DOWN

### Notes

- · Not all functions listed may be controllable.
- In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing number keys for channel selection.

TV Brand Code Numbers		
Panasonic 01, 02	Sylvania 05	JVC 11
Quasar 01, 02	Sharp 06, 07	Hitachi 12
RCA 03	Sony 08	Mitsubishi 07, 13
GE03	Toshiba09	Samsung , 14
Zenith04	Sanyo 10	Gold Star 15, 16, 17
Magnavox05	Fisher 10	

Cable Box Brand Code Numbers	
Archer05, 06, 01, 44, 63, 91, 126	Quest 05, 06
Cabletenna 01, 44, 63, 91, 126	Radio Shack 51, 44, 59, 75, 126
Cableview 63, 44, 42, 30, 52, 04, 124, 126	RCA 16, 17, 97, 109
Century 51, 44, 59, 75, 126	Realistic 51, 44, 59, 75, 126
Citizen 63, 44, 42, 30, 52, 04, 124, 126	Recoton 51, 44, 59, 75, 126
Curtis 08, 09, 61, 53, 87	Regal 14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond 01, 44, 63, 91, 126	Regency 28, 130
Drake 67	Rembrandt 01, 32, 39, 42, 44, 63, 126
Eagle 13, 22, 58, 62, 20, 40, 26, 107	Salora68
Eastern 28, 130	Samsung 05, 32, 40, 42, 06
GC Brand 63, 44, 42, 30, 52, 04, 124, 126	Scientific Atlanta 08, 09, 61, 53, 87
Gernini 04, 124	Sheritech27
General Electric 57, 01	Signal 26, 112
General Instruments 01, 02, 03, 04, 34, 55, 83, 106,	SL Marx
65, 67, 68, 115, 117, 118, 124, 91	Sprucer 16, 17, 97, 109
Hamfin 14, 15, 28, 41, 102, 103, 104, 108, 130	Standard Components 32, 39, 42, 44, 126
Hitachi31	Stargate 32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126
Jasco 04, 124	Sylvania19
Jerrold	Teknika74
65, 67, 68, 115, 117, 118, 124, 91	Telecaption 77, 127
Macom31	Teleview
Magnavox	Texscan 18, 19
Matsushita	Tocom 33, 34, 01, 42, 66, 91
Movietime	Toshiba
NEC	Uniden Satelite65
NOVAVISION 08, 09, 61, 53, 87	Unika
NSC	Universal
Oak	Videoway
Oak Sigma	Vid Tech
Panasonic	Vidtek
	Viewstar
Pioneer 05, 06 Pulsar 63, 44, 42, 30, 52, 04, 124, 126	Zenith 07, 23, 50, 129
Fulsai 03, 44, 42, 30, 52, 04, 124, 126	

DSS Brand Code Numbers	
Toshiba92	Panasonic
Hitachi/ Hughes93	PCA
Magnavox/ Uniden 194	Sony 98, 105
Magnavox/ Uniden 295	

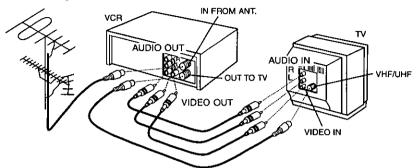
## Important Notes

- Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.
- . Some TV, Cable Box and DSS Box brands require you to turn on the power manually.

# **Advanced Connections**

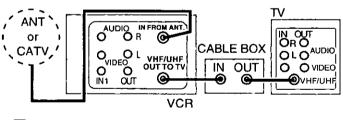
#### Audio/Video connection

If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to recive higher quality picture and sound.



- Connect the VIDEO OUT terminal on the VCR to the VIDEO IN terminal of your TV.
- Connect the "L" and "R" AUDIO OUT terminals on the VCR to the "L" and "R" AUDIO IN terminals of your TV.
- (3) Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

### With a Cable Box (VCR → Cable Box)



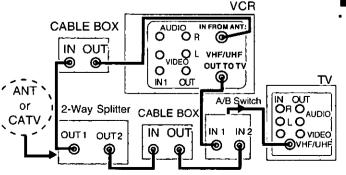
## You Can

- view any (including scrambled) channel.
- use VCR Remote Control to select channels without using Multi-brand control feature.

#### You Cannot

 record scrambled channels.

### Connect With Two Cable Boxes



### You Can

be record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch, and a 2-way

splitter.

### You Cannot

- view channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

# MTS Broadcast/VHS Hi-Fi Stereo System

#### Connection

Make the Audio/Video Connection as shown on the previous page.

 You can use a TV connected to Stereo amp and speakers instead of a Stereo TV.

### Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays.

The signal being received is indicated with an "(t" mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received, -> press DISPLAY.

#### MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select STEREO or SAP audio mode.

#### MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast, Select STEREO audio mode.

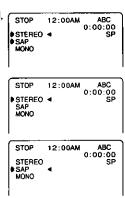
 If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.

#### SAP broadcast

Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

#### MONO broadcast

Normal monaural sound broadcast.

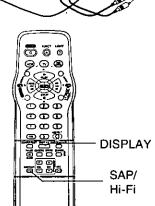


12:00AM

STOP

MONO

STEREO



Equipped with dbx\*-TV Noise Reduction for true MTS reproduction. dbx\*-TV Noise Reduction is required for good stereo separation and audio fidelity. dbx\* is a registered trademark, and is licensed by dbx\*\*-Technology Licensing.

## **Audio Mode for Recording**

Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)

2 STEREO SAP MONO

Press SAP/ HI-Fi repeatedly to select desired mode.

Arrow indicates selection.

 Refer to "Receivable Broadcast Types" above.

3 Do a recording. See page 15.

## Audio Mode for Playback

Start playback. See page 14.

0:00:00

Press SAP/ Hi-Fi
to display audio mode.
(Display disappears after 5 seconds.)

MIFI (UR)4
HIFI (UR)
HIFI (B)
NORMAL

Arrow indicates

selection.

Press SAP/ Hi-Fi repeatedly to select desired mode.

 Select "HIFI(L/R)" or "HIFI(L)" or "HIFI(R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound.

# Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an
  external stereo amp and speakers. (See top of this page.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

# Tape Operation

# Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

#### Index Search

INDEX PROPRAMEND

ENTER INDEX NUMBER :1

USING 1-9 KEYS

FORWARD SEARCH :FF

REVERSE SEARCH :REW

NEXT :SSEARCH

EXIT: :STOP

Press SEARCH\* to display SEARCH in Stop or Play mode.

2 NOEX SEARCH 3

Press number keys to select recording number.

 To calculate number, see below.

Press FF or REW to start search.

INDEX SEARCH

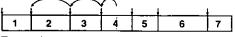
FORWARD SEARCH : FF
REVERSE SEARCH : REW

 Play begins at search end. To search forward or back 1 index, press FF or REW while screen left is displayed (10 sec.).

### To Calculate Index Number

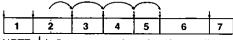
### Example 1:

To go to rec. 2 from rec. 4, enter 3 and press REW.



### Example 2:

To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: Indicates start points of each recording.

### Note

 If Index Search is started very close to an index mark, that index mark may not be counted in the search.

### **Program End Search**

Locates end point of recording for continuity.

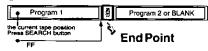
Press SEARCH twice to display SEARCH in Stop or Play mode.



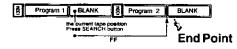
Press FF to start PROGRAM END SEARCH.

Examples of Program End Search.

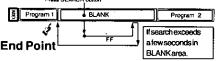
#### Fig. 1



#### Fig. 2



# Fig. 3

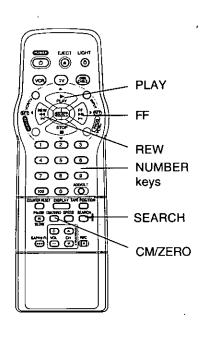


#### Upon locating end point,

- -->search continues 7 sec. past end point,
- -->tape rewinds to 10 sec. before end point,
- -->tape plays to end point and stops.

#### Notes

- If Program End Search is started very close to an index mark, that mark may be skipped over.
- To cancel, press PLAY or STOP.



## **Auto Operation Functions**

#### Auto Play

Insert tape --> Power comes on, -->Play starts if no record tab (see pg. 4).

#### ■ Auto Rewind

Play
Manual Record
Fast Forward
--> Tape end,
--> Rewind

#### ■ Play Auto Eject

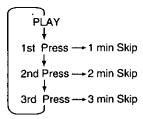
(Repeat Play must be off)
Play, -->Tape end, -->Rewind,
-->Tape ejects if no record tab

## Commercial Skip

VCR fast forwards (skips) over 1~3 minutes of recorded tape.

# 1 Press CM/ZERO in Play mode.

 The skip time can be changed by pressing CM/ZERO button repeatedly as shown by the figure below.



No indication appears.

# **Tape Operation**

# **Special VCR Features**

#### Repeat Play

Set to playback a recording over and over.

Press ACTION\* to display menu.

2 RELECT A V SET P

Press ▲▼
to select REPEAT
PLAY and press ▶ to
set ON or OFF.

- Play repeats at tape end or if unrecorded portion over 30 sec. is detected.
- 3 Press ACTION to return to normal screen.

#### Zero Search

To quickly return to a specified tape location.

Press DISPLAY during play to display Counter.

2 PLAY 12:00AM 0:00:00 SP

Press COUNTER RESET at desired position to reset to "0:00:00".

3 Continue to record, playback, etc.

4 Press Stop.

FEW 12:00AM CH 02 0:30:30 SP

Press CM/ZERO in Stop mode to start ZERO SEARCH.

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

### Note

 If a blank portion exists on the tape, and depending on the position of the V mark, the V mark display position may not be accurate.

#### **Tape Position Display Feature**

To find out the present tape position.

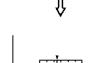
Tape position cannot be detected for VHS-C

Cassette types and tapes of less than 60

minutes length.

Press TAPE POSITION to detect Tape Position.

DETECTING TAPE POSITION



- "DETECTING TAPE POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct indication to appear.
- The present tape position indication is displayed.
- 2 Press TAPE POSITION to return to normal screen.

## Remote Warning ON/OFF Feature

If Multi-brand feature is used (page 20), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.

1 Press ACTION to display menu.

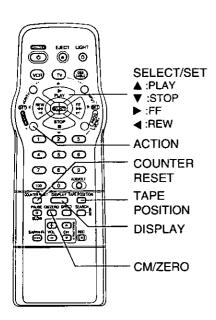
PER OFF ON AUTO SOUTH OF SOUTH

Press ▲▼

to select REMOTE WARNING and press ▶ to set ON or OFF.

 If "OFF," remote warning will not appear if invalid key is pressed.

3 Press ACTION to return to normal screen.



### Weak Signal Display ON/OFF Feature

When "ON," picture is displayed regardless of signal strength.

PVCR CLOCK CHAWNEL
REPEAT PLAY
OF
REMOTE WARRING ON
AUTO SHUT-OFF ON
DIDOMMANQUE ENGLISH
VOR S OUTPUT CH : 3

SELECT : A V 4 P
EXIT : ACTION

Press ACTION to display menu.

Press ◀▶
to select and display

CHANNEL,

press ▲▼
to select WEAK
SIGNAL DISPLAY,
and press ▶ to set
ON or OFF.

 ON: Picture is displayed regardless of signal condition, and may not always be clearly visible.

OFF: Screen turns solid blue when signal is weak or non-existant.

 Selecting ON has no effect on connected equipment with blue back feature.

3 Press ACTION to return to normal screen.

#### VCR Lock Feature

When set to ON, all operations except for timer record and tape eject are prohibited. Useful for households with small children.

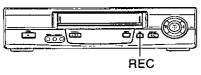


To turn on, hold down REC on the VCR in Stop mode with no tape inserted for 7 sec. (Please ignore the NO CASSETTE warning.)



To turn off, repeat above.

 VCR Lock cancels in 24 hours if clock is set.



#### Auto Shut-Off Feature

When set to ON, VCR shuts off if blank tape is played or no signal is detected for 5 min.

Press ACTION to display menu.



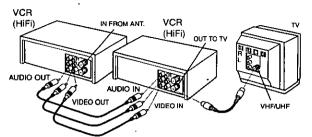
Press **▲**▼

to select AUTO SHUT-OFF and **press** ► to set ON or OFF.

3 Press ACTION to return to normal screen.

# Copying Your Tapes (Dubbing)

## Connection



Front of VCR VIDEO IN2

(Video In Terminal on the front of VCR is available)

L-AUDIO IN2-R

- Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on Recording VCR. To monitor the dubbing, also connect a TV as shown.
- Connect "L" and "R" AUDIO OUT terminals on Playing VCR to "L" and "R" AUDIO IN terminals on Recording VCR (Rear).

In place of a Playing VCR, you can use other equipment, such as a Camcoder. Simply connect the unit's Audio/Video outputs to the Recording VCR.

## Playing (Source) VCR

## Recording (Editing) VCR

Insert pre-recorded tape.

Insert blank tape with record tab.

2 ——

Press INPUT to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video Input (Front). (See "Selecting the Input Mode" below.)

Press PLAY, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode.

Press REC, then PAUSE/SLOW immediately to enter REC/PAUSE mode.

The operation of steps 4 and 5 must be done on both playing and recording VCRs at the same time.

4 Press PLAY to start dubbing. Playing VCR starts playback.

Press PAUSE/SLOW to start dubbing. Recording VCR starts recording.

5 Press STOP to stop dubbing.

Press STOP to stop dubbing.

## To Monitor Dubbing on Your TV

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

### ■ Selecting the Input Mode

Method 1: Press INPUT repeatedly.

Channel Number <--> LINE1 <--> LINE2

Method2: Press CH ▲/▼. Display will change as below.

(CABLE) (TV)
LINE2-LINE1-125 or 69

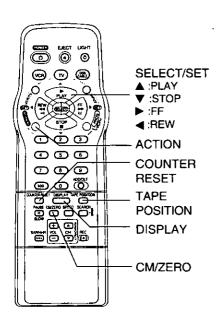
Note

Dubbing tapes protected with Copy Guard will have poor quality results.

 "L1" or "L2" lights on Multi-Function Display (about 4 sec.) when LINE1 or LINE2 is selected.

LINE1: For rear audio/video connection.
 LINE2: For front audio/video connection.

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



#### Weak Signal Display ON/OFF Feature

When "ON," picture is displayed regardless of signal strength.

PVOR L CLOCK L CHANNEL
REPEAT PLAY OFF
REMOTE WARNING ON
AUTO SHUTHOFF ON
IDIOMALANGUE : ENGUSH
VOR S OUTPUT CH ::3

SELECT : A 1 4 P
EXIT ::ACTION

Press ACTION to display menu.

PORT TOLOCK CHANNEL
ANTENNA: CABLE
AUTO SET
WEST STEMME DESPLAY CHE
CABLEOSS BOX SET UP
VCR PRUS CH SET UP
SELECT: A T SET: P
EXIT :: ACTION

Press **◆**▶

to select and display CHANNEL.

press ▲▼
to select WEAK
SIGNAL DISPLAY,
and press ▶ to set
ON or OFF.

 ON: Picture is displayed regardless of signal condition, and may not always be clearly visible.

OFF: Screen turns solid blue when signal is weak or non-existant.

 Selecting ON has no effect on connected equipment with blue back feature.

3 Press ACTION to return to normal screen.

#### **VCR Lock Feature**

When set to ON, all operations except for timer record and tape eject are prohibited. Useful for households with small children.

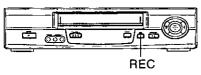


To turn on, hold down REC on the VCR in Stop mode with no tape inserted for 7 sec. (Please ignore the NO CASSETTE warning.)



To turn off, repeat above.

 VCR Lock cancels in 24 hours if clock is set.



#### Auto Shut-Off Feature

When set to ON, VCR shuts off if blank tape is played or no signal is detected for 5 min.

Press ACTION to display menu.



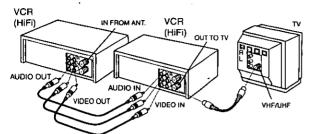
Press **▲▼** 

to select AUTO SHUT-OFF and **press** ► to set ON or OFF.

3 Press ACTION to return to normal screen.

# Copying Your Tapes (Dubbing)

## Connection



Front of VCR VIDEOIN2 L-AUDIO IN2-R
O O O

(Video In Terminal on the front of VCR is available)

- Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on Recording VCR. To monitor the dubbing, also connect a TV as shown.
- Connect "L" and "R" AUDIO OUT terminals on Playing VCR to "L" and "R" AUDIO IN terminals on Recording VCR (Rear).

In place of a Playing VCR, you can use other equipment, such as a Camcoder. Simply connect the unit's Audio/Video outputs to the Recording VCR.

#### Playing (Source) VCR

Insert pre-recorded tape.

### Recording (Editing) VCR

Insert blank tape with record tab.

2 ——

Press INPUT to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video Input (Front). (See "Selecting the Input Mode" below.)

Press PLAY, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode.

Press REC, then PAUSE/SLOW immediately to enter REC/PAUSE mode.

The operation of steps 4 and 5 must be done on both playing and recording VCRs at the same time.

4 Press PLAY to start dubbing. Playing VCR starts playback.

Press PAUSE/SLOW to start dubbing. Recording VCR starts recording.

**5** Press STOP to stop dubbing.

Press STOP to stop dubbing.

### To Monitor Dubbing on Your TV

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

### Selecting the Input Mode

Method 1: Press INPUT repeatedly.

(CABLE) (TV)

Note Dubbing tapes protected with Copy Guard will have poor quality results.

- "L1" or "L2" lights on Multi-Function Display (about 4 sec.) when LINE1 or LINE2 is selected.
- LINE1: For rear audio/video connection.
   LINE2: For front audio/video connection.

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

# **VCR & Cassette Information**

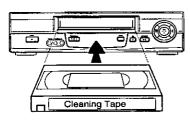
### **Head Cleaning**

Playing older or damaged tapes may eventually cause video heads to become cloqued.

## Video Head Clog Sensor

During playback, this screen appears if clogging is detected. To remove screen, press PLAY on the remote or VCR.

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



- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 32.)

## Cleaning the VCR

Use a soft cloth or dusting attachment of a vacuum cleaner to remove dust from the ventilation holes on the back sides and bottom of the cabinet.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

### **Specifications**

Power Source: 120 V AC, 60 Hz

Power Consumption: PowerOn

Approx. 23 watts
Power Off
Approx. 3.0 watts

Video Signal: EIA Standard NTSC color

Video Recording System: 4 rotary heads helical

scanning system

Audio Track: 1 track (Normal)

2 channel (Hi-Fi Audio Sound)

Tuner:

Broadcast Channels: VHF2~13, UHF 14~69

CABLE Channels: Midband Athrough I (14~22)

Superband J through W (23~36) Hyperband AA~EEE (37~64) Lowband A-5~A-1 (95~99) Special CABLE channel 5 A (01) Ultraband 65~94, 100~125

5°C~40°C (41°F~104°F)

Operating Humidity: 10%~75%

Weight: 2.7 kg (6.0 lbs).

Dimensions: 430 (W) x 98 (H) x 242 (D) mm 16-15/16" (W) x 3-7/8" (H) x

9-9/16" (D)

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

## Features for a Quality Picture

#### **Digital Auto Picture**

Operating Temperature:

Automatically controls the video output signal for less noise depending on the tape condition.

#### **Digital Auto\_Tracking**

Continuously analyzes the signal and adjusts for optimum picture quality.

# Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise. Press CH (TRACKING) ▲ / ▼ buttons on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.



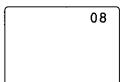




V-Lock Control (to reduce picture jitter)
In Still mode, CH (TRACKING) ▲ / ▼ buttons operate as a V-Lock control.

# On-Screen Displays (OSD)

## Function & Channel Display



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

# 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 Weak Signal Display Feature (page 27) set to OFF, the TV screen will turn solid blue.

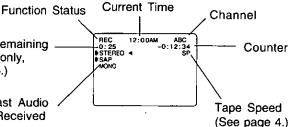
# VCR Status & **Clock Display** To display or remove overlay

--> press DISPLAY.

at right,

Rec Time Remaining (OTR mode only, see page 15.)

> Broadcast Audio Being Received



## Warning and Instruction Displays

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

OSD	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY AGAIN	NO CH FOUND  If no active channels are found for CHANNEL 8 TO CANCEL TIMER REC OF THE STOP KEY  If no active channels are found for STOP KEY  WEMORY		If you press POWER or STOP during a Timer Recording (visible in VCR mode only)		
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set	16	VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END :PLAY	If head cleaning becomes necessary while playing back a tape	29
TURN YCR OFF FOR TIMER RECORDING	After a Timer Program has been set	16	VCH LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode	27
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	4	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE TY : TV KEY	If you press an invalid key on the remote while in CABLE/DSS modé	20 21 26
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted	14 15	REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press an invalid key on the remote while in TV mode	20 21 26

# **Before Requesting Service**

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

Power	Correction
No power	<ul> <li>Completely insert Power Plug into an AC outlet.</li> <li>Set POWER button to on.</li> <li>Make sure power source is active.</li> </ul>
Recording & Playback	Correction
TV program cannot be recorded	<ul> <li>Check connections between VCR, external antenna, and TV.</li> <li>Check channel selections.</li> <li>Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.12])</li> <li>Make sure cassette record tab is intact. (P.4)</li> </ul>
Timer recording cannot be performed	<ul> <li>Confirm that clock is set to current time and date.</li> <li>Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.</li> <li>Set recording start/stop times correctly. (P.16)</li> <li>Make sure VCR POWER button is pressed off. (P.16)</li> <li>Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (P.8) or select LINE. Set VCR/TV selector to "VCR." Adjust TRACKING control in either direction. (P.29) Try Head Cleaning. (P.29)
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control	Set TV's Vertical Hold Control to MANUAL, then adjust.
VCR cannot be controlled	<ul> <li>Make sure VCR power is on.</li> <li>Check Remote batteries.</li> <li>Make sure VCR LOCK is set to off. (P.27)</li> <li>Make sure Remote is in proper mode.(P.20)</li> <li>Make sure Timer Record is not in progress.</li> </ul>
Remote Control	Correction
VCR cannot be remote controlled	<ul> <li>Make sure VCR power is on.</li> <li>Make sure Remote is in VCR mode.</li> <li>Aim Remote Control directly at remote sensor on VCR. (P.6)</li> <li>Avoid any object blocking signal path.</li> <li>Check Remote batteries. (P.4)</li> <li>Make sure VCR LOCK is set to off. (P.27)</li> <li>Exposing VCR remote sensor to direct fluorescent or outdoor tight may cause signal interference.</li> </ul>
ACTION and PROG/VCR+ buttons do not respond	<ul> <li>Check connections between VCR, external antenna, and TV.</li> <li>Press VCR button for VCR mode. (P.20)</li> <li>Check Remote batteries. (P.4)</li> </ul>
Miscellaneous	Correction
Programs cannot be viewed on TV	<ul> <li>Make sure TV power is on.</li> <li>Make sure TV is set to output of VCR.</li> <li>Check connections between VCR, external antenna, and TV.</li> <li>Set VCR/TV selector to "TV." (P.15)</li> <li>Make sure proper signal source is selected.</li> </ul>
Video cassette cannot be inserted	<ul> <li>Insert the cassette with window side up; record tab facing you.</li> <li>Check if a tape is already in the unit.</li> </ul>
Video cassette cannot be removed	Completely insert Power Plug into an AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording	Make sure cassette record tab is intact. (P.4)
In Stop mode, the motor (CYLINDER) continues to rotate	<ul> <li>To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to</li> </ul>

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262).

To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262). or send e-mail to: consumerproducts@panasonic.com

# Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm, EST. or send e-mail to: consumerproducts@panasonic.com

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

#### Accessory Purchases:

Customer Orders Only 800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Factor	v Servic	enters i	Locat	ions

#### **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 29th Avenue Suite 102 Hollywood, FL 33020

#### GEORGIA

8655 Roswell Road Suite 100 Atlanta, GA 30350

#### **ILLINOIS**

9060 Golf Road Niles, IL 60714

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

#### MARYLAND

62 Mountain Road Glen Burnie, MD 21061

#### MASSACHUSETTS

60 Glacier Drive Suite G Westwood, MA 02090

#### **MICHIGAN**

37048 Van Dyke Avenue Sterling Heights, MI 48312

#### MINNESOTA

7850-12th 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

#### TEXAS

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

As of January 2000

# Warranty

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):

PRODUCT	PARTS	<u>LABOR</u>
CAMCORDER	ONE(1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY(90)DAYS NINETY(90)DAYS
VCR	ONE(1) YEAR	NINETY (90) DAYS
A/VMIXER	ONE(I)YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE(I)YEAR,EXCEPTCRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT-NINETY (90) DAYS CUSTOMER PAYS ALLLABOR 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

<u>Batteries</u> (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 required 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 by 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.

THEWARRANTORSHALLNOTBELJABLEFOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGETOTAPES) 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, ARELIMITED TO THE APPLICABLE WARRANTY PERIOD SET FOR THABOVE. 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 DONOT 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 10/20/99

# Spanish Quick Use Guide/Guía para rápida consulta

### Como realizar la Configuración Inicial

Encienda el TV y ajústelo en el canal 3.

SELECT LANGUAGE PRESS CH & : ENGLISH DPRIMIR CH \* : ESPANOL APP VCR/TV : FRANCAIS TO CHANGE VCR'S OUTPUT CH, PRESS ACTION KEY.

Encienda el VCR. Al encender el VCR por primera vez, en la pantalla aparecerá SELECT LANGUAGE.

- Si la pantalla no aparece, verifique las conexiones entre el VCR y el TV, y si el TV está sintonizado en el canal 3, intente cambiándolo al canal 4.
- Cuando desee cambiar el canal de salida del VCR, por favor remitase Canal de Salida del VCR en la página 13.
- Si ajusta el idioma equivocado, realice los pasos de "Reajuste de Todas las Funciones de Memoriá del VCR" en la página 9.

VCR FRELOJ CANAL CABLE/DSS+VCR+TV VCR+CABLE/DSS+TV ELEGIR: A F FUAR: N

Pulse CH A para seleccionar Inglés. O

Pulse CH ▼ para seleccionar Español.

Pulse la tecla VCR/TV para seleccionar Francés. Cuando se pulsa una de las teclas anteriores, aparece la pantalla ELEGIR LA CONEXION en el idioma que se ha seleccionado.

4 VCA TREEDJ CANAL ELEGIR LA CONEXION CABLE/DSSPVCR-TV SALIDA DEL CABLE/DSS ELEGIR : A T FNAR : P

Pulse ▲▼ para seleccionar la conexión CABLE DSS VCR▶TV y luego pulse ▶ para ajustar.

VCR FRELOJ FCANAL FLIACION AUTO (CA RELOJ) POR FAVOR OPRIMIR CHUP

Confirme el canal de salida de su caia de cable o receptor DSS. Pulse las teclas CH ▲▼ para seleccionar el mismo canal que el canal de salida de la caja de cable o del receptor DSS. Pulse para entrar

Encienda la caja de cable y ajuste su canal de Estación Pública de Radiodifusión (PBS) en su huso horario: Ši utiliza un receptor DSS, este tiene que estar apagado.

VCH | RELOUT \_\_CANAL 5/13/2001 DOM 2:20PN HORA VERAN LEGA : ACT CANAL FUADO : CA 10 FIJACION AUTOMATICA TERMINAR; CH UP

Pulse la tecla CH ▲ para comenzar la operación de Aiuste Automático Canal/ Reloj. El ajuste Canal/ Reloi se lleva a cabo automáticamente. Si la configuración se termina, aparece la pantalla siguiente.

VCR [ RELOUT CANALT) FIJACION AUTOMATICA DEL RELOJ INCOMPLETO POR FAVOR FUE EL RELOJ CON LA TECLA ACTION Si aparece la pantalla "Fijacion Automatica Del Reloj Incompleto", ajuste el reloj utilizando los procedimientos de 'AJUSTE MANUAL DEL RELOJ".

### Ajuste Manual del Reloj

Si el ajuste automático del reloj no se ha completado, ajuste el reloj manualmente de la siquiente manera:

- 1) Pulse la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.
- Pulse ▲▼ para seleccionar el mes y ▶ para aiustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).
- Pulse dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

### Ajustar de nuevo el reloj

Pulse ACTION para exhiba el menú.

FIJACION AUTOMATICA AJUSTE ZONA HORA : 0 ELEGIR: A T + P BALIR : ACTION

Pulse **◀▶** para seleccionar "RELOJ".



Pulse **▲▼** para seleccionar "MANUAL" y luego pulse ▶.



Pulse ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.

Pulse ACTION dos veces para que el reloj comience a funcionar y salir desde este modo.

# Operaciones básicas para la reproducción

- Inserte una cinta.
  - la alimentación del VCR se activa.
     En la Pantalla de Visualización Multi Función se ilumina "VCR".
- Pulse PLAY para reproducir la cinta.
   Si la cinta no tiene lengüeta de prevención de grabación (página 4), se inicia la reproducción automática.

#### Detalles especiales durante la grabación

- Pulse FF o REW para búsqueda de escenas Hacia delante/ Hacia atrás. Pulse nuevamente o pulse PLAY para liberar.
- Pulse PAUSE/SLOW para imagen Fija (Congelada). Pulse PLAY para liberar.
- Pulse PAUSE/SLOW en el modo de Imagen fija para imágenes Cuadro a Cuadro. Pulse PLAY para liberar.
- Mantenga pulsado PAUSE/SLOW en el modo de imagen fija para imágenes en cámara lenta. Pulse PLAY para liberar.
- 3 Pulse STOP para detener la cinta.
- Pulse REW o FF en el modo de parada para Rebobinado/Avance Rápido de la cinta.
- Pulse EJECT en el control remoto, o STOP/ EJECT en el VCR para expulsar la cinta.

# Operaciones básicas para la grabación

- Inserte la cinta con lengüeta de protección de grabación (pág. 4).
   La alimentación del VCR se activa. En la pantalla Multi Función se illumina "VCR".
- 2 Pulse CH ▲▼, o las teclas de números para seleccionar el canal.
- 3 Pulse SPEED para seleccionar la velocidad de grabación (pág.4)
  - SP = Reproducción estándar,
  - LP = Larga duración,
  - SLP = Superlarga duración.
- 4 Pulse REC para comenzar a grabar.
   Para eliminar escenas indeseadas, pulse PAUSE/SLOW para pausar, y al pulsar nuevamente se reanuda la grabación.
- 5 Pulse STOP para detener la grabación.
- Grabación de Un Toque (grabar en marcha),
  - El VCR se apaga después de preajustar la extensión de la grabación.
  - --> Cada vez que se pulsa REC se adicionan 30 min. a la extensión de grabación hasta un máximo de 4 horas.

# Programación fácil para la grabación con temporizador

1 Pulse PROG/VCR+ para visualizar PROGRAM.



Pulse ◀► para visualizar la pantalla de Programa.



1) Para ajustar la FECHA de grabación, pulse ▲▼ para seleccionar:
1-31 = una vez, o DIARIO = a la misma hora de lunes a viernes, o SEMANA = a la misma hora cada semana y pulse ▶ para ajustar.
• Vea el orden de selección abajo a la izquierda.



2) Para ajustar los ítems que quedan, pulse ▲▼ para seleccionar y pulse ▶ para ajustar los tiempos de START/STOP, CANAL, o entrada de LÍNEA (pág. 28), y velocidad de la cinta (SP, LP, SLP).

Pulse PROG/VCR+ para finalizar el programa.



Pulse ▲▼ para seleccionar un número sin usar para ingresar mas programas y pulse ▶ para ajustar. Luego repita el paso 3.

Pulse nuevamente PROG/VCR+ para salir.

 Pulse POWER off para ajustar el temporizador. (Se ilumina "TIMER" en el panel delantero)

# Index

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