Panasonic

nitial Setup Connection

Basic Operation

Recording

Advancec Operation

For Your

### Video Cassette Recorder Operating Instructions Model No. PV-V4601



Omnivision \US



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

ILVER

VCR Plus+, ALLSET and PlosCode are trademarks of Gemslar Development Corporation. The VCR Plus+ System is manufactured under license from Gemstar Development Corporation.

As an ENERGY STAR® Partner, Matsushita Electric Corporation of Amarica 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.) LSQT0375A

# 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.

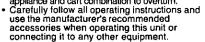
#### 3 POWERCORD

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

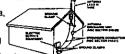
- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



#### OUTDOOR ANTENNA INSTALLATION 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 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 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.

#### 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, hurrid, or dusty areas may adversely affect internal parts.

#### SERVICE

- 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 HAVETHESERVICETECHNICIAN PERFORMASAFETY CHECK After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacturer'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

Date of Purchase \_\_\_\_\_
 Dealer Purchased From \_\_\_\_\_

Dealer Address \_\_\_\_\_
 Dealer Phone No. \_\_\_\_\_
 Model No. \_\_\_\_\_

Accessories

Remote Control LSSQ0300

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888 888

- 8 8 a

Serial No.

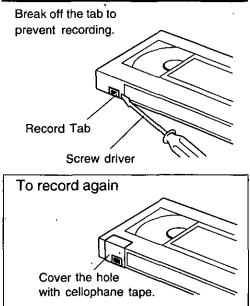
on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your VCR.

Batteries 2 "AA"

RF Coaxial Cable

VJAS0196

### Prevent Accidental Tape Erasure



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

Loading the Batteries			
	1) Open cover.		
	2) Insert batteries as marked.		
	3) Close cover.		

### **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	

### Battery replacement caution

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

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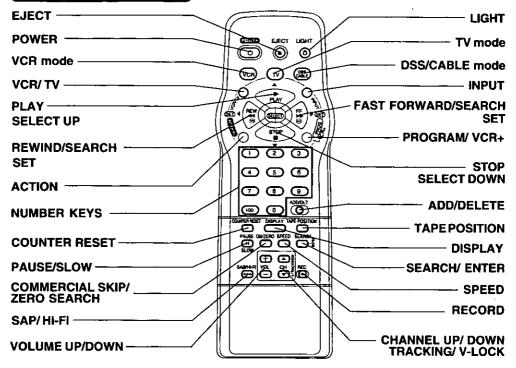
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# **Location of Controls**

### Remote control Buttons

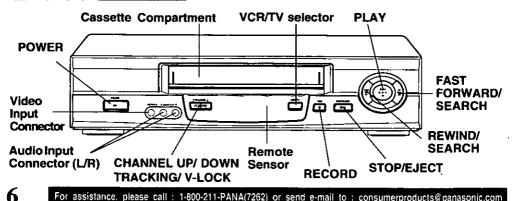


#### **Light Tower Universal Remote Control**

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



### **Multi Function Display**

#### **Power Indicator**

Lights when power is on.

#### Timer Indicator

Lights when the VCR is set for a Timer Recording, or when One Touch Recording (OTR) is used. Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR and when a power interruption occurs during Timer Programming.



VCR Indicator Lights when the VCR/TV selector is set to VCR.

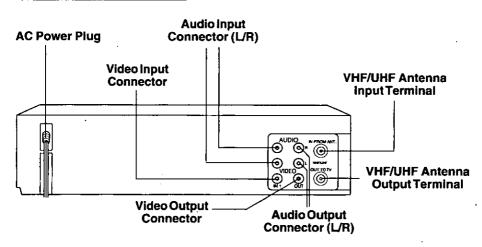
#### Clock/ Status/ Channel/ Speed Display

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

#### **Hi-FiIndicator**

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

### Rear View of the VCR



While plugged into an AC outlet, the VCR consumes 3.0 W of electrical power in off mode.

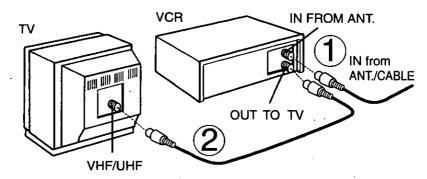
# Initial Setup for ANT./ Cable - VCR - TV Connection

### 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 button\* on the remote 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.



- 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.

#### WARNING -

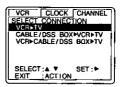
8

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

Press CHA to select English.

Press CHV to select Spanish. or

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.

Í	CHANNEL/CLOCK (CHANNEL)
	CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN
Į	PLEASE PRESS CH UP KEY

Press CH▲ 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.

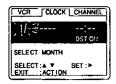


### Manual Clock Set

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



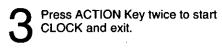
Press ACTION Key on the Remote to display CLOCK Menu screen.

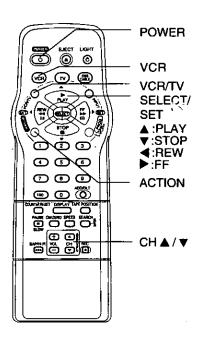




Press  $\blacktriangle \lor$  to select the month and  $\blacktriangleright$  to set. In the same manner, select and set the date, year, time, and DST (daylight saving time).





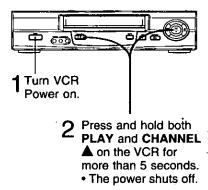


Initial Setup (Connection)

### **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.

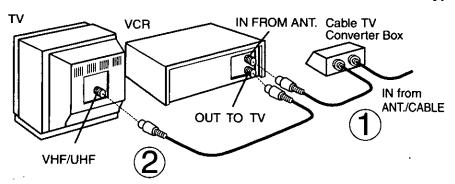


9

### How to Connect

Connect the OUT Jack on your cable box to the IN FROM ANT. terminal on the VCR with the 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 button<sup>+</sup> 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.



- 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.

#### WARNING -

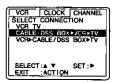
10

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

#### Press CH▲ to select English. or

Press CH▼ to select Spanish. or

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 "CABLE/DSS BOX►VCR►TV" connection and press ► to set.

VCR CLOCK CHANNEL SELECT CONNECTION CABLE/OSS BOX+VCR+TV
CABLE/DSS BOX OUTPUT CH
SELECT: A V SET: >

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



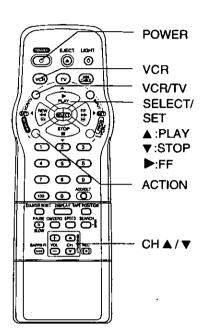
Turn on your cable box and set it to your Public Broadcasting Station (PBS) channel in your time zone. If you use a DSS receiver, it must be turned off.

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



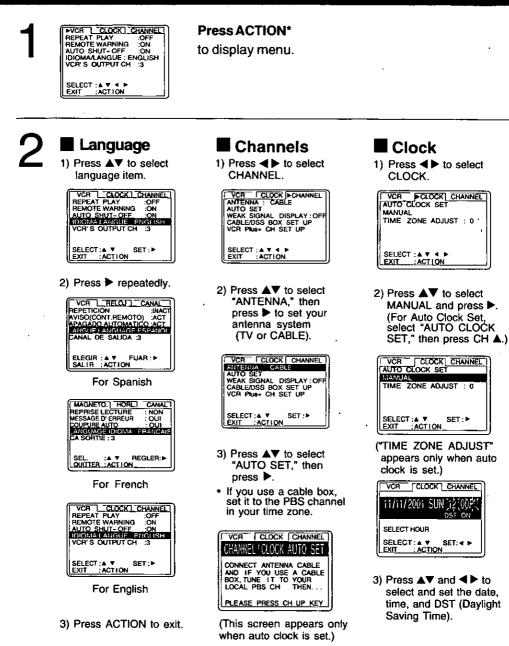
If "Auto Clock Set is Incomplete" screen appears, set the clock using MANUAL CLOCK SET procedures shown on page 9.





Initial Setur (Connection

### Reset Language, Channels, Clock,



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

After Channel Auto Set is

finished, Clock Auto Set will be performed.

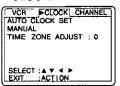
Press CH A.

# VCR's Output Channel

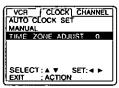
\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

### Time Zone Adjust 🔳 VCR's Output

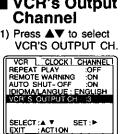
- (Only when Auto Clock is set.)
- Press ◀► to select CLOCK.



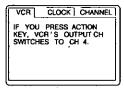
 Press ▲♥ to select TIME ZONE ADJUST



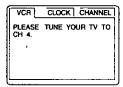
- and press  $\blacktriangleleft$  or  $\triangleright$  to subtract or add hour(s) as necessary.
- 3) Press ACTION.
- 4) Press POWER off and wait a maximum 10 minutes until AUTO CLOCK SET is performed by the VCR.
- TIME ZONE ADJUST returns to "0" if clock is set manually.



2) Press 🌬.



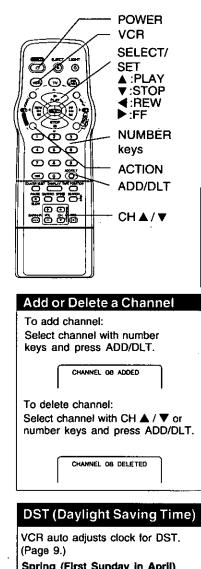
3) Press ACTION.



#### After 3 seconds



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



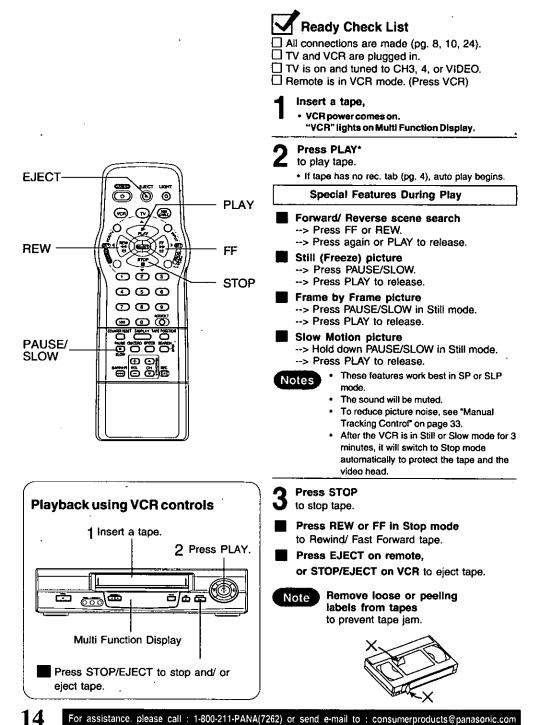
Basic Operatic

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

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

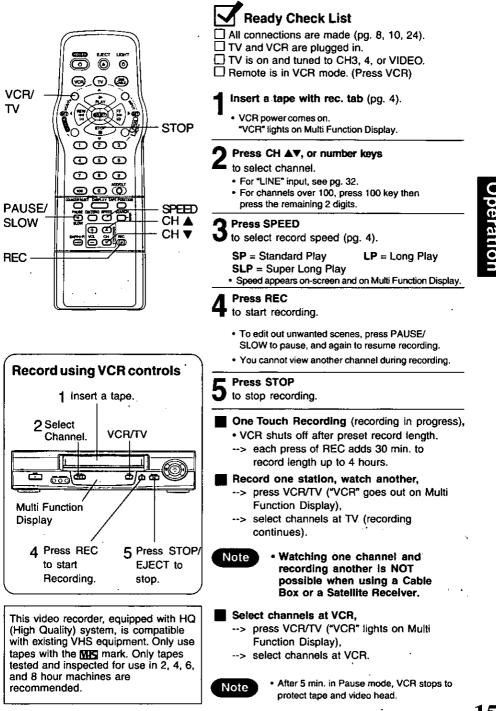
- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming the VCR for timer recordings.

# Playback a Tape

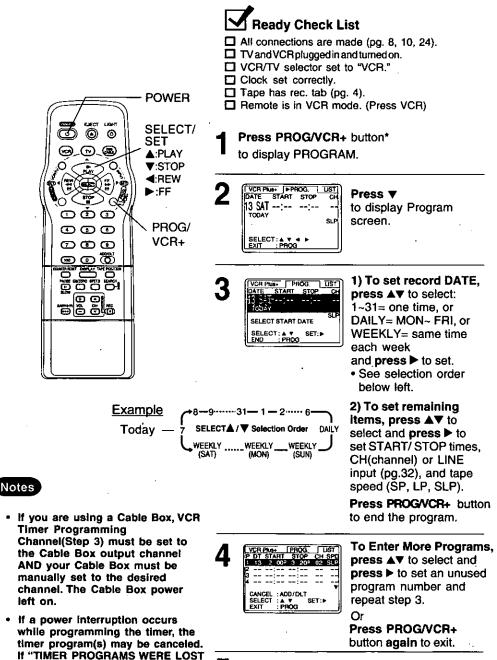


# **Record on a Tape**

If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



# Timer Recording



Press POWER off

to set the timer. ("TIMER" lights on Multi Function Display.)

DUE TO POWER INTERRUPTION"

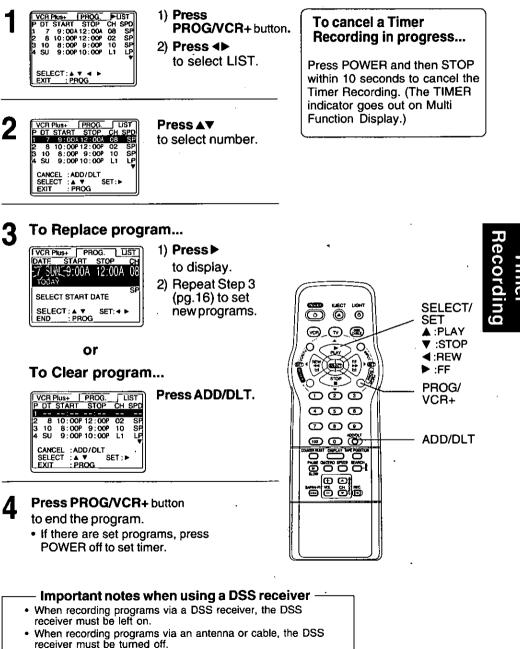
appears on-screen, please reenter

the timer programs.

16

### Review, Replace or Clear Program Contents:

(Recording is not in progress)



VCR Plus+ System is ...

newspaper TV listings.

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

the timer recording will have priority.

### Auto VCR Plus+ System Channel Setup (Part 1)

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

In order for VCR to read PlusCode, some set up is required. Guide (PlusCode) channel number is assigned to each local broadcast and cable station. Because this number sometimes differs from channel TV receives station on, it is necessary to program the VCR with local channel information. To receive VCR Plus+ channels automatically, perform the steps below. Or, see "Manual VCR Plus+ System Channel Setup" section on page 20.

#### PVCR CLOCK CHANNEL REPEAT PLAY : OFF REMOTE WARNING : ON AUTO SHUT-OFF : ON IDIOMALANGUE : ENGLISH **Press ACTION\*** to display MENU. Important Note "Initial Setup" on pages 8~11 must be VCR'S OUTPUT CH 3 completed before "Auto VCR Plus+ SELECT : A V 4 P EXIT : ACTION System Channel Setup" can be done. If any part of setup is incomplete, a warning screen appears. VCR CLOCK CANNEL ANTENNA: CABLE AUTO SET WEAK SIGNAL DISPLAY: OFF CABLEDSS BOX SET UP VCR Plus+ CH SET UP Press < to select CHANNEL. SELECT : A V + P EXIT : ACTION E.ECT цант 0 0 0 SELECT/ 0 **@** ک SET VCR CLOČK CHANNEL ANTENNA : CABLE AUTO SET WEAK SKGNAL DISPLAY : OFF Press AV Ô, PLAY О to select VCR Plus+ ▼ :STOP CH SET UP CABLE/DSS BOX SET UP REW and O<sup>g</sup> 🕨 :FF $\overline{\mathbf{x}}$ press > to display. SELECT:▲ ▼ EXIT :ACTION SET :\* Ó O ന് G ന Θ ACTION Press AV VCR CLOCK CHANNEL 000 to select AUTO SET • • • MANUAL and <u>1</u> press b to set. SELECT: . SET : > œ ACTION EXIT ēē ējē Press AV 4 VCR CLOCK CHANNEL to enter Zip Code and PLEASE ENTER ZIP CODE enter each number. Press ▶ or ACTION to set. SELECT : A V END ACTION SET : > Notes VCR CLOCK CHANNEL PLEASE SELECT HOW OFTEN TO UPDATE HIGHT NOW Press to select When to When Auto Set is performed, channels set in initial setup(pages 8-11) will be Update and EVERY NIGHT EVERY MONDAY NIGHT replaced by automatically downloaded press b to set. data. SELECT : A V SET : > Make each entry within 5 minutes or VCR EXIT will leave this mode. Once local channels have been VCA CLOCK CHANNEL Press ACTION programmed, they will stay in memory, to end. PLEASE LEAVE VCR OFF even in the case of a power failure. If the start time for a timer recording comes Make sure to leave up during Auto VCR Plus+ System Setup,

END

ACTION

2

3

4

5

6

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

VCR off (overnight).

**Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

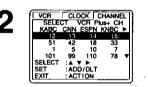
### Auto VCR Plus+ System Channel Setup (Part 2)

Before you perform the following steps, you should have:

- completed "Auto VCR Plus+ System Channel Setup (Part 1)" on page 18.
- left VCR off overnight, and turned it back on after 9:00 AM the next day.
  - If channel updating was successful...



Press ACTION to exit this mode.

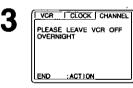


If VCR could not distinguish channel map...



Press ACTION to display SELECT VCR Plus+ CH. Continue with step 2.

Press ▲▼ ◀► to select channel map for your area and press ADD/DLT to set.



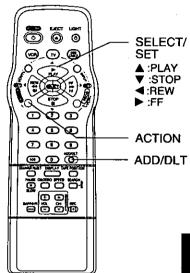
Press ACTION to end.

 Make sure to leave VCR off (overnight.)

Channel map will be updated (overnight.) If it was successful, "VCR Plus+ CH SET COMPLETED" appears on screen. And then, press ACTION to exit.

Repeat these steps as necessary.

If Auto Setup fails, do "Manual VCR Plus+ System Channel Setup" on page 20.



### To Change or Update Auto VCR Plus+ System Channel Setup

(E.g. you selected wrong channel map or zip code.)

a Do "Auto VCR Plus+ System Channel Setup (Part 1)" steps 1~4 on page 18.



- b Press▲♥ to select UPDATE VCR Plus+ or SELECT VCR Plus+ CH, then press▶.
- c If you selected UPDATE VCR Plus+ CH. perform steps 5~7 in the "Auto VCR Plus+ System Channel Setup (Part 1)" section on page 18.

If you selected SELECT VCR Plus+ CH. perform steps 2-3 in the "Auto VCR Plus+ System Channel Setup (Part 2)" section on this page.

# Timer Recording Using VCR Plus+<sup>®</sup> System (Continued)

### 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 listings.

#### Initial Setup.....

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

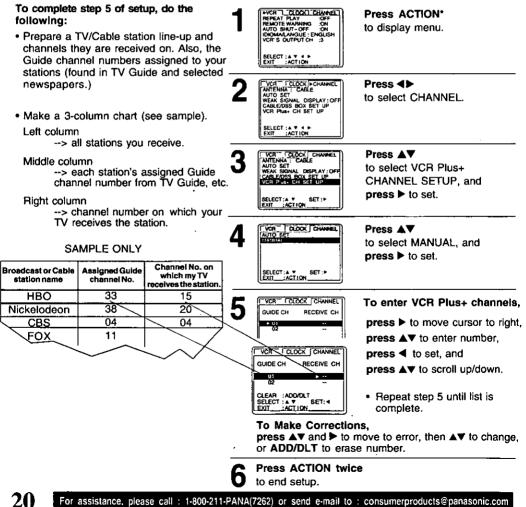
#### Channel Setup.....

Since PlusCode 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 leach corresponding Guide Channel. If you perform the VCR+ Channel set up procedures shown below, you will be able to perform timer

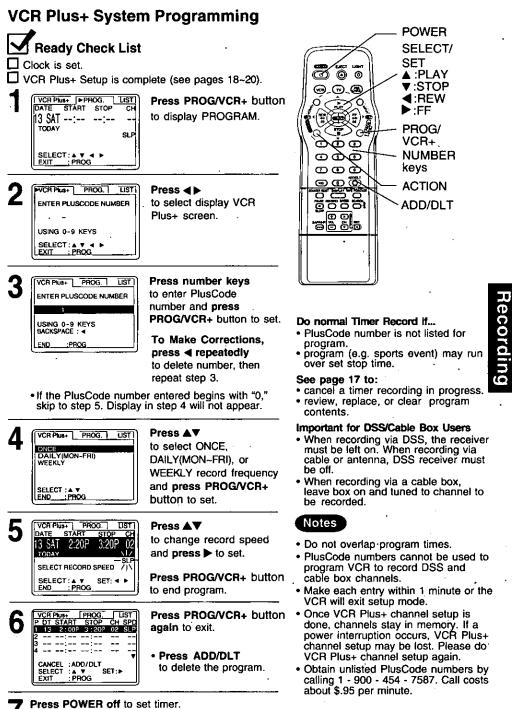
recordings using the PlusCode programming number listed in your local TV listing.

### Manual VCR Plus+ System Channel Setup

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



\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



("TIMER" lights on Multi Function Display.).

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# **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 is 100 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.

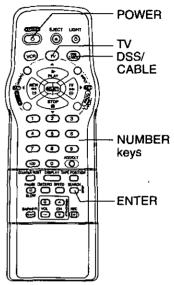
Press VCR, or TV, or DSS/CABLE on the remote. (Table below shows available unit buttons for each mode.)

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

### Notes

22

- 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, 03	2 Sytvania 05
Quasar 01, 02	2 Sharp 06, 07
RCA 0	3 Sony 08
GE 0	3 Toshiba 09
Zenith 0	4 Sanyo 10
Magnavox 0	5 Fisher 10

#### Cable Box Brand Code Numbers

Archer
Cabletenna 01, 44, 63, 91, 126
Cableview 63, 44, 42, 30, 52, 04, 124, 126
Century 51, 44, 59, 75, 126 Citizen 63, 44, 42, 30, 52, 04, 124, 126
Curtis
Diamond 01, 44, 63, 91, 126
Drake
Eagle 13, 22, 58, 62, 20, 40, 26, 107
Eastern
GCBrand 63, 44, 42, 30, 52, 04, 124, 126
Gemini
General Electric 57, 01
General Instruments 01, 02, 03, 04, 34, 55, 83, 106
65, 67, 68, 115, 117, 118, 124, 91
Hamlin
Hitachi 31
Jasco 04, 124
Jerrold 01, 02, 03, 04, 34, 55, 83, 106
65, 67, 68, 115, 117, 118, 124, 91
Macom 31
Magnavox
Matsushita 16, 17, 97, 109
Movietime
NEC
NOVAVISION
NSC
Oak 46, 11, 129
Oak Sigma 46, 11, 129
Panasonic 16, 17, 97, 109
Philips 07, 13, 20, 23, 24, 50, 128, 129
Pioneer 05, 06
Pulsar' 63, 44, 42, 30, 52, 04, 124, 126

Quest	
Radio Shack 51,	
RCA	
Realistic 51,	44, 59, 75, 126
Recoton	
Regal 14, 15, 28, 41, 102, 103	3, 104, 108, 130
Regency	
Regency	42, 44, 63, 126
Salora	
Samsung05	5, 32, 40, 42, 06
Scientific Atlanta	
Sheritech	
Signal	
SL Marx 32, 40, 42, 06, 43,	44, 52, 63, 126
Sprucer	
Standard Components	39, 42, 44, 126
Stargate 32, 40, 63, 44, 42, 30, 52, 0	
Sylvania	
Teknika	
Telecaption	
Teleview	
Texscan	
Tocom	
Toshiba	
Uniden Satelite	
Unika 01,	44, 63, 91, 126
Universal	
Videoway	
Vid Tech	
Vidtek	
Viewstar 13, 22, 58, 62,	
Zenith	

JVC ..... 11

Hitachi ..... 12

Mitsubishi ..... 07, 13 Samsung ..... 14

Gold Star ..... 15, 16, 17

### DSS Brand Code Numbers

Toshiba	. 92	Panasonio
Hitachi/ Hughes	. 93	RCA
Magnavox/Uniden 1	. 94	Sony
Magnavox/ Uniden 2	. 95	

Panasonic	
RCA	
Sony	
-	

#### **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.

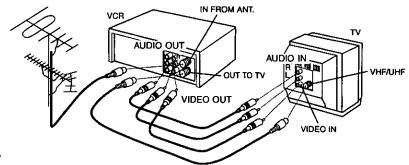
# Advanced Operation

### Advanced Connections

### Audio/Video Connection

1.0

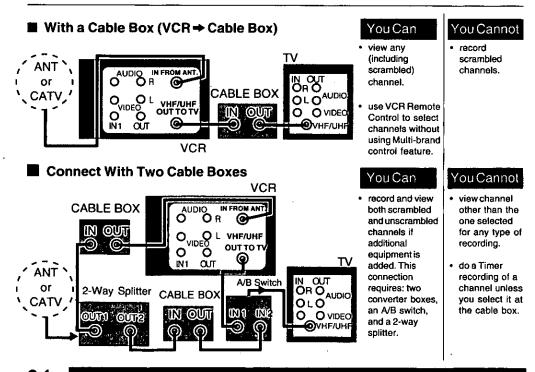
If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive higher quality picture and sound.



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.

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



# MTS Broadcast/VHS Hi-Fi Stereo System

STOP

SAP NONO

STOP

SAP MONO

STOP

SAP MONO

STOP

SAP NONO

STEREO

STEREO

STEREO <

STEREO 4

12:00AM

12:00AM

12:00AM

12:00AM

ABC

ARC

ABC

ABC

0:00:00

0:00:00

0:00:00

0:00:00

### 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 "fra" 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.

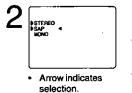
#### **MONO** broadcast

Normal monaural sound broadcast.

### Audio Mode for Recording

Press SAP/ Hi-Fi

to display audio mode. (Display disappears after 5 seconds.)

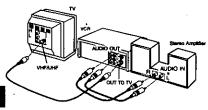


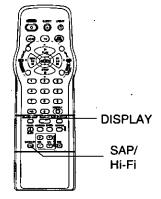
Press SAP/ Hi-Fi repeatedly to select desired mode.

Refer to "Receivable Broadcast Types" above.

#### Do a recording. See page 15.

- 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.





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<sup>®</sup> Technology Licensing.

### Audio Mode for Playback

Start playback. See page 14.

Press SAP/ Hi-Fi

to display audio mode. (Display disappears after 5 seconds.)

3



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.

Arrow indicates selection.

25

eration

# **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

SEARCH INDEX PROGRAM END ENTER INDEX NUMBER :1 USING 1-9 KEYS FORWARD SEARCH :FF REVERSE SEARCH :REW SEARCH EXIT

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

#### Press number keys INDEX SEARCH 3 2 to select recordina number.

INDEX SEARCH

FORWARD SEARCH : FF REVERSE SEARCH : REW

To calculate

number, see below.

Press FF or REW to start search.

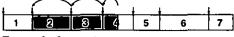
3

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

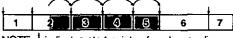
### Example 1:

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: I 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.

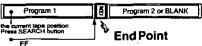
Press SEARCH twice to display SEARCH in Stop or Play mode.



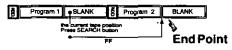
Press FF to start PROGRAM END SEARCH.

### Examples of Program End Search.

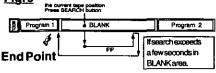
Fig.1



### Fig.2







### Upon locating end point,

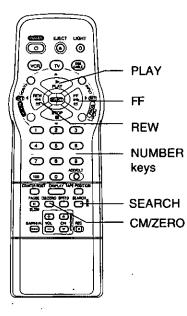
-->search continues 7 sec. past end point, -->tape rewinds to 10 sec. before end point, -->tape plays to end point and stops.

### 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.



Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



### **Auto Operation Functions**

#### Auto Play

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

#### Auto Rewind

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

#### Play Auto Eject

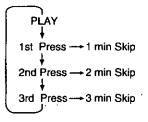
(Repeat Play must be off) Play, -->Tape end, -->Rewind, -->Tape ejects if no record tab

### **Commercial Skip**

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

#### 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 (Continued)

### **Repeat Play**

Set to playback a recording over and over.

- Press ACTION\*
- to display menu.



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

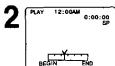
- Play repeats at tape end or if unrecorded portion over 30 sec. is detected.
- Press ACTION

to return to normal screen.

### Zero Search

To quickly return to a specified tape location.

Press DISPLAY during play to display Counter.

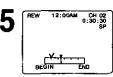


Press COUNTER RESET at desired position to reset to "0:00:00".



Continue to record, playback etc.

Press STOP.

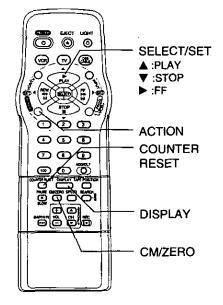


Press CM/ZERO In Stop mode to start ZERO SEARCH.

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

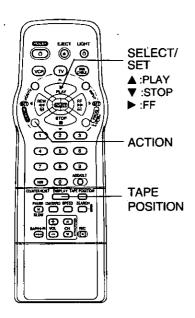


• If a blank portion exists on the tape, and depending on the position of the V mark, the V mark display position may not be accurate.



# **Special VCR Features**

\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



### **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.

Press TAPE POSITION

to return to normal screen.

### Remote Warning ON/OFF Feature

If Multi-brand feature is used (page 22), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.

Press ACTION to display menu.



Press ▲▼ to select REMOTE WARNING and press ► to set ON or OFF.

• If "OFF," remote warning will not appear when a invalid key is pressed.

**3** Press ACTION to return to normal screen.

# Special VCR Features (Continued)

### Weak Signal Display ON/OFF Feature

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



#### Press ACTION

to display menu.

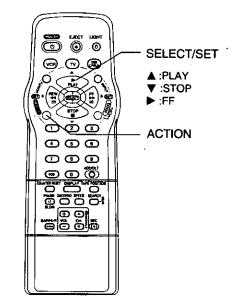


Press ◀► to select and display CHANNEL, press ▲▼ to select WEAK SIGNAL DISPLAY, and press ► to set ON or OFF.

- 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.

#### Press ACTION

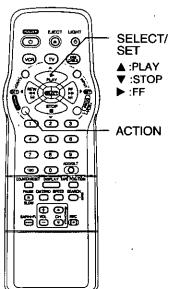
to return to normal screen.



### Auto Shut-Off Feature

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

#### 



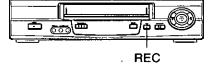
### VCR Lock Feature

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

VCR LOCK ACTIVATED

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.)



Advanced Operation

VCR LOCK OFF

To turn off, repeat above.

· VCR Lock cancels in 24 hours if clock is set.

# ng Your Tapes (Dubbing)

### . .

Connection	l de la companya de la company			
VCR		r.		
AUDIO OUT AUDIO OUT VIDEO OU	AUDIO IN VIDEO IN	V VHF/UHF	ont of VCR VUEON2 O (Video In Term front of VCR is	
① Connect VIDEO To monitor the o	OUT terminal on Playing V dubbing, also connect a TV	VCR to VIDEO IN teri as shown.	ninal on Recordir	ng VCR.
terminals on Re In place of a	I "R" AUDIO OUT terminats cording VCR (Rear). A Playing VCR, you can nect the unit's Audio/Vide	use other equipmer	nt, such as a Ca	
Playing (	Source) VCR	Recording	g (Editing) V	CR
1 Insert pre-rec	orded tape.	Insert blank tape	with record tab.	
2		Press INPUT to s Video Input (Rear (Front). (See "Se	) or to LINE2 for \	/ideo Input
	then PAUSE/SLOW p enter PLAY/PAUSE mode	Press REC, then immediately to en		node.

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

Press PLAY to start dubbing. Playing VCR starts playback.

Press STOP to stop dubbing.

### Press STOP to stop dubbing.

Press PAUSE/SLOW to start dubbing.

Recording VCR starts recording.

Selecting the Input Mode

#### 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."
- Dubbing tapes protected with Copy Guard will Note have poor quality results.
- Press INPUT repeatedly. Method 1: Channel Number <--> LINE1 <--> LINE2 Method 2: Press CH▲/▼. Display will change as below.

- "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 clogged.

### 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 WAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL :PLAY



 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 36.)

### Built-in Head Cleaner

A clean video head helps produce a clear picture.

So, we have equipped your VCR with a builtin, 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.

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

### **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	1:4 rotary heads helical
	scanning system
Audio Track:	1 track (Normal)
	2 channel (Hi-Fi Audio Sound)
Tuner:	
Broadcast Channels:	VHF 2~13, UHF 14~69
CABLE Channels:	Midband A through I (14~22)
	Superband J through W (23~36)
	Hyperband AA~EEE (37~64)
	Lowband A-5~A-1 (95~99)
•	Special CABLE channel 5 A (01)
	Ultraband 65~94, 100~125
Operating Temperature	: 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

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

9-9/16" (D)

### Features for a Quality Picture

#### **Digital Auto Picture**

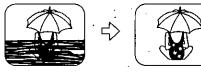
Automatically controls the video output signal for less noise depending on the tape condition.

#### Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

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

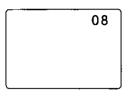
Use during Playback and Slow Motion mode to reduce picture noise. Press CH (TRACKING) ▲ / ▼ buttons on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.



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

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

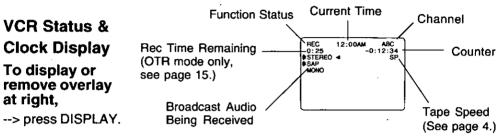
### **Function & Channel Display**



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 30) set to OFF, the TV screen will turn solid blue.



### Warning and Instruction Displays

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

OSD	Coution	De	020	Coution	in.
030	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY ÄGAIN	If no active channels are found for CHANNEL MEMORY	8	TO CANCEL TIMER REC PRESS POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording (visible in VCR mode only)	17
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	33
turn vcr off For timer recording	After a Timer Program has been set	16	VCR LOCK ACTIVATED	If you press a function button other than STOP/ EJECT or POWER while the VCR is in VCR Lock mode	31
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 TV : TV KEY	If you press an invalid key on the remote while in CABLE/DSS mode	22 23 29
NO CABSETTE PLEASE INSERT A CASSETYE	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	22 23 29

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

Power	Correction
No power	Completely insert Power Plug into an AC outlet.     Set POWER button to on.
	Set POWER button to on.     Make sure power source is active.
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	<ul> <li>Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (P.8) or select LINE.</li> <li>Set VCR/TV selector to "VCR."</li> <li>Adjust TRACKING control in either direction. (P.33)</li> <li>Try Head Cleaning. (P.33)</li> </ul>
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	Make sure VCR power is on.     Check Remote batteries.     Make sure VCR LOCK is set to off. (P.31)     Make sure Remote is in proper mode.(P.22)     Make sure Timer Record is not in progress.
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.31)</li> <li>Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
ACTION and PROG/VCR+ buttons do not respond	Check connections between VCR, external antenna, and TV.     Press VCR button for VCR mode. (P.22)     Check Remote batteries. (P.4)
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 Play mode and from Play to Rewind Search mode.</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)

#### Factory Servicenters Locations

CALIFORNIA 6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

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

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 Langhome, 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

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

### PANASONIC Video Products **Limited Warranty**

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

PRODUCT	PARTS	LABOR	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
VCR	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
MONITOR- VCR Combination	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In: 21" CRT and Smaller In-home or carry-in: 22" CRT and Larger	1-800-211-PANA(7262)

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 contact number listed above, 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 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.

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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 RECORDING MEDIA) 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 Consumer Affairs Department 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 8/8/2000

nformation For You

# SpanishQuickUseGuide/Guíapararápidaconsulta

	a Configuración Inicial y ajústelo en el canal 3. Encienda el VCR. Al encender el VCR por primera vez, en la pantalla aparecerá SELECT LANGUAGE.	6 STIGTON AUTOMATICA STIGTON AUTOMATICA CANAL FUNDOS : CA 10 FUNCION AUTOMATICA COMPLETON TERMI INARIO UP	Presione la tecla CH ▲ para comenzar la operación de Ajuste Automático Canal/Reloj. El ajuste Canal/Reloj se lleva a cabo automáticamente. Si la configuración se termina, aparece la pantalla siguiente.
sintonizado en el c canal 4. • Cuando desee can VCR, por favor ren VCR en la página • Si ajusta el Idloma de "Reajuste de To	el VCR y el TV, y si el TV está anal 3, intente cambiándolo al nóitase Canal de salida del 13. equivocado, realice los pasos odas las Funciones de	FILACION AUTOMATICA FILACION AUTOMATICA DEL RELOJ ES INCOMPLETO POR FAVOR FUE EL RELO CON LA TECLA ACTION	Si aparece la pantalla "Fijacion Automatica Del Reloj Es Incompleto", ajuste el reloj utilizando los procedimientos de "AJUSTE MANUAL DEL RELOJ".
Memoria del VCR"	en la pagina 9.	Ajuste Manual	del Reloj
3 VOR FREID CARE/USSYCP/V CARE/USSYCP/V CARE/USSYCP/V ELECAL A Y FLAR:P ELECAL A COMEXCON CARE/USSYCP/V ELECAL & COMEXCON CARE/USSYCP/V	Presione CH ▲ para seleccionar Inglés. O Presione CH ▼ para seleccionar Español. O Presione la tecla VCR/TV para seleccionar Francés. Cuando se presione una de las teclas anteriores, aparece la pantalla ELEGIR LA CONEXION en el idioma que se ha seleccionado. Presione ▲▼ para seleccionar la conexión CAPI EDSEN/CRENT/ x	<ul> <li>Si el ajuste automa completado, ajuste siguiente manera:</li> <li>1) Presione la tecl remoto para vis RELOJ.</li> <li>2) Presione ▲▼ p para ajustar. De y ajuste la fech Verano).</li> <li>3) Presione dos v</li> </ul>	Atico del reloj no se ha e el reloj manualmente de la la ACTION en el control sualizar la pantalla del menú ara seleccionar el mes y ▶ e la misma forma, seleccione a, año, hora y DST (Hora de eces la tecla ACTION para J en marcha y salir.
ELEGIR : A FLAR : FLAR	CABLE/DSS►VCR►TV y luego presione ► para ajustar.		N para exhiba el menú.
5 TVCR TREEDI CANAL THECKN AUTO I CARELOL DONECTE A SU AVIENA Y BO LABLE BRYTONEE AL CANAL PBS DE SU LOCAL LEGOL. EOR, FAYOR OPRIMER CHUP	Confirme el canal de salida de su caja de cable o receptor DSS. Presione las teclas ▲▼ para seleccionar el mismo canal que el canal	2 TUCAT FREIDUT CANAL FILICION AUTOMATICA MANUAL AUSTE ZONA HORA : 0 ELEOIR : 4 7 4 1 SALIR : ACTION	Presione ◀▶ para seleccionar "RELOJ".
	de salida de la caja de cable o del receptor DSS. Presione ▶ para entrar	3 TYCH REINT CANAL FETABLICH AUTOMATICA AUSTE ZONA HORA : 0 ELEGIR : A Y FLAR : P BAUR : ACLION	Presione ▲▼ para seleccionar "MANUAL" y luego presione ▶.
	Encienda la caja de cable y ajuste su canal de Estación Pública de Radiodifusión (PBS) en su huso horario. Si utiliza un receptor DSS, este tiene que estar apagado		Presione ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.
		5 Presione ACTION o comience a funcion	dos veces para <u>que el reloj</u> l <u>ar</u> y salir desde este modo.

#### Operaciones básicas para la reproducción

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

#### Detalles especiales durante la grabación

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

#### Operaciones básicas para la grabación

- Inserte el cassette con lengüeta de protección de grabación (pág. 4).
   La alimentación del VCR se activa. En la pantalla Multi Función se ilumina "VCR".
- 2 Presione CH AV, o las teclas de números para seleccionar el canal.
- **3** Presione SPEED para seleccionar la velocidad de grabación (pág.4)
  - SP = Reproducción estándar,
  - LP = Larga duración,
    SLP = Superlarga duración.
- A Presione REC para comenzar a grabar.
- Para eliminar escenas indeseadas, presione PAUSE/SLOW para pausar, y al pulsar nuevamente se reanuda la grabación. No podrá ver otro canal durante la grabación.
- 5 Presione 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** Presione PROG/VCR+ para visualizar PROGRAM.
- 2

Presione ◀► para visualizar la pantalla de Programa.

3 CONTRACT PROG LISTA

<u>Eiemplo</u>

Fecha de hoy

31-1-2

▲/▼ Orden para alegi

1) Para ajustar la FECHA de grabación, presione ▲♥ 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 presione ▶ para ajustar.

- Vea el orden de selección abajo a la izquierda.
- 2) Para ajustar los ítems que quedan, presione ▲▼ para seleccionar y presione ▶ para ajustar los tiempos de START/ STOP, CANAL, o entrada de LÍNEA (pág. 32), y vetocidad de el cassette ( SP, LP, SLP).

Presione PROG/VCR+ para finalizar el programa.



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

Presione nuevamente PROG/VCR+ para salir.

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

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