

Limited 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 Infantería, Km. 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

Panasonic VHS VCR Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
All components of VCR except item listed below	One (1) Year	Ninety (90) Days
Video Tape (in exchange for defective video tape)	Five (5) Days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted.

This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company
Customer Servicenter Suite B
4900 George McVay Drive
McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company
(787) 750-4300 or fax (787)768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER 'LIMITED WARRANTY COVERAGE'. THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)
ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

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 exclusions 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 warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.
or send e-mail : consumerproducts@panasonic.com
For hearing or speech impaired TTY users, TTY : 1-877-833-8855

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

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
For hearing or speech impaired TTY users, TTY : 1-866-605-1277
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)

Service in Puerto Rico

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

• Limited Warranty • Customer Services Directory • Guía para rápida consulta (Spanish Quick Use Guide)

Panasonic®



Omnivision VHS

Video Cassette Recorder Operating Instructions (Basic Operations)

For advanced operations, see the separate "Advanced Operations" instruction book.

Model No. PV-V4022-A



Table of Contents

Important Safeguards and Precautions	2
Before Using	3
Connections and Initial Setup (Ready to Play)	4
Playback / Record on a Tape	5
Timer Recording	6
Location of Controls	7, 8
Spanish (Español) Quick Use Guide	9, 10, 11
Limited Warranty / Customer Services Directory	12

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.)

LSQT0698A

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

Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION

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

2 POLARIZED OR GROUNDING PLUG

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

POLARIZED PLUG CAUTION:

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

GROUNDING PLUG CAUTION:

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

3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided.

4 DO NOT BLOCK VENTILATION HOLES

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

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

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or 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.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

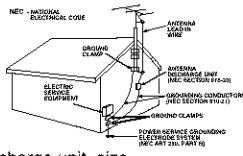


OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

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

Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

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

USING THE VIDEO UNIT

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

1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

If equipment is exposed to rain, moisture, or strong impact, unplug the unit and have it inspected by a qualified service technician before use.

2 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.

3 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.

4 USING ACCESSORIES

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

5 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 overspray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

1 DO NOT SERVICE THIS PRODUCT YOURSELF

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

2 IF REPLACEMENT PARTS ARE REQUIRED

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

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

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

Before Using

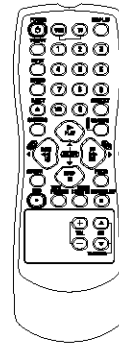
Congratulations

on your new purchase! With proper use, this dependable product will provide years of enjoyment. Please fill in the information below. (Serial number is on tag on back of VCR.)

- Date of Purchase _____
- Dealer Purchased From _____
- Dealer Address _____
- Dealer Phone No. _____
- Model No. **PV-V4022-A**
- Serial No. _____

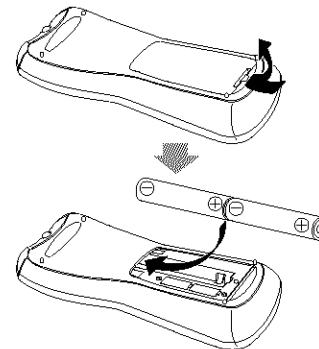
Accessories

- Remote Control LSSQ0263



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

Loading the Batteries



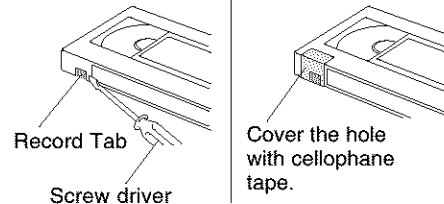
Battery replacement caution

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

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.

To record again



Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

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

Head Cleaning

Old or damaged tapes may clog heads.

Video Head Clog Sensor

Screen-right appears during play if clogging is detected. To remove screen, press PLAY.

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

Cleaning the VCR

Use soft, dry cloth or dusting attachment of a vacuum to remove dust from all cabinet vent holes. You may moisten cloth with nonabrasive, antistatic cleaner/ polisher.

Caution:

Alcohol and various solvents could damage finish.

Specifications

Power Source: 120 V AC, 60 Hz

Power Consumption: Power On

Approx. 18 W

Power Off

Approx. 2.5 W

Video Signal: EIA Standard NTSC color

Video Recording System: 4 rotary heads helical scanning system

Audio Track: 1 track (Normal)

Tuner:

Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69

CABLE Channels: Midband A ~ I (14 ~ 22)

Superband J ~ W (23 ~ 36)

Hyperband AA ~ EEE (37 ~ 64)

Lowband A-5 ~ A-1 (95 ~ 99)

Special CABLE channel 5A (01)

Ultraband 65 ~ 94, 100 ~ 125

Operating Temperature:

5 °C ~ 40 °C (41 °F ~ 104 °F)

Operating Humidity: 10 % ~ 75 %

Weight: 2.5 kg (5.5 lbs.)

Dimensions: 360 (W) x 93 (H) x 242 (D) mm

14-3/16" (W) x 3-11/16" (H) x 9-9/16" (D) inch

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

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) ▲/▼ 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) ▲/▼ operate as a V-Lock control.

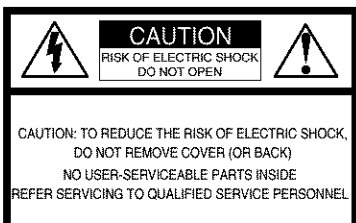
Safety Precautions

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.



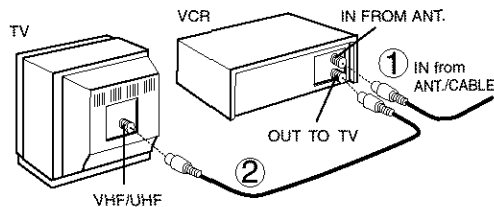
This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

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.

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

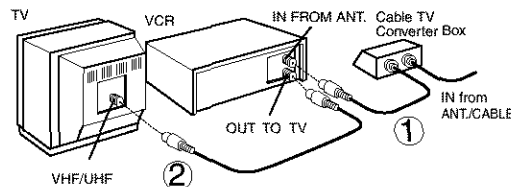
For ANT./Cable → VCR → TV

- 1 Connect cable from Antenna/Cable to VCR's IN FROM ANT. jack.
- 2 Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



For DSS/Cable Box → VCR → TV

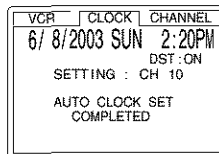
- 1 Connect your cable box's OUT jack to the VCR's IN FROM ANT. jack with an RF cable.
- 2 Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



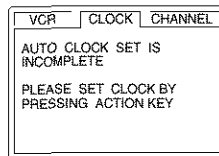
WARNING

Over tightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

- 3 Settings are made automatically. When setup is done, this screen appears.



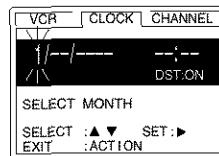
If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below.



Manual Clock Set

If Auto Clock Set was incomplete.

- 1 Press ACTION* on remote to display CLOCK menu.



- 2 Press ▲▼ to select the month and ▶ to set. In the same manner, select and set the date, year, time, and DST

If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.

- 2 Press PLAY to play tape.
 - If tape has no rec. tab (p. 3), auto play begins.

Special Features During Play

Forward/Reverse Scene Search

- Press FF or REW.
- Press PLAY to release.

After search has begun, each additional press of FF or REW changes speed as shown below.

[SLP] : Approx. 21X ↔ Approx. 9X
 [LP] : Approx. 9X ↔ Approx. 7X
 [SP] : Approx. 7X ↔ Approx. 3X

If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

Notes

- Picture interruption may occur with some TVs.
- FF and REW search speed may vary depending on current tape position.

Still (Freeze) Picture

- Press PAUSE/SLOW.
- Press PLAY to release.

Frame by Frame Picture

- Press PAUSE/SLOW 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 p. 3.
- After VCR is in Still or Slow mode 3 minutes, it auto switches to Stop mode to protect the tape and the video heads.

- 3 Press STOP to stop tape.

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

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

If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.

- 2 Press CH ▲▼ or NUMBER keys to select the channel.

- For "LINE" input, see p. 9 of "Advanced Operations" book.
- If recording from a channel over 100, first press 100 key then the other 2 digits.

- 3 Press SPEED

to select record speed (p. 3).

- 4 Press REC

to start recording.

- To edit, press PAUSE/SLOW to pause, and again to resume recording.

- 5 Press STOP to stop recording.

One Touch Recording

(recording in progress)

Press REC repeatedly to set length as follows:

30 min. → 1 hr. → 1:30 → 2:00 → 3:00
 → 4:00 → exit.

The VCR shuts off at the length set.

Record one station, watch another

Press VCR/TV ("VCR" goes out on Multi Function Display), → select channels on TV (recording continues).

Select channels on VCR (in STOP or PAUSE mode)

Press VCR/TV ("VCR" lights up on Multi Function Display), → select channels on VCR.

Notes

- Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.
- After 5 minutes in Pause mode, VCR stops to protect the tape and the video heads.

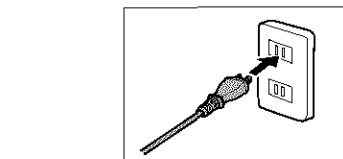
This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the **VHS** mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

Auto Operation Functions

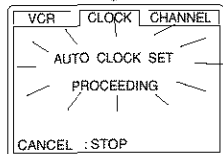
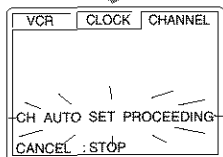
Auto Play

Insert a tape → Power comes on → Play starts if there is no record tab (see p. 3).

Auto Rewind



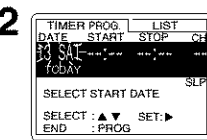
Plugging the AC Power Plug into an AC outlet



If you use a cable box, turn it on and set it to the Public Broadcasting Station (PBS) channel in your time zone. If you use a

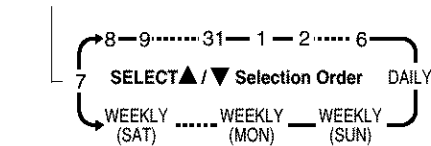
Timer Recording

- 1) Press **PROG***.
- 2) Press **▼** to display program screen.

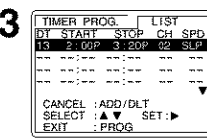


- 1) Set record **DATE**, press **▲▼** to select:
1~31 = one time,
or **DAILY** = MON~ FRI,
or **WEEKLY** = same time
each week and press **▶**.
- 2) Set remaining items,
press **▲▼** to select and
press **▶** to set **START/ STOP** times, **CH** (channel) or
LINE input (p. 9 of "Advanced Operations" book), and
tape speed (p. 3).

Example
Today



Press **PROG** to end programming.



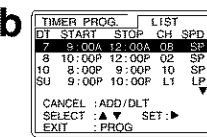
- To Enter More Programs**
Press **▲▼** to select and
press **▶** to set an unused program.
Then repeat step 2.
Or, press **PROG** to exit.

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

Review, Replace, or Clear Program

(Recording is not in progress)

- 1) Press **PROG**.
- 2) Press **◀▶** to select **LIST**.



- Press **▲▼** to select
desired program.

To Replace program...

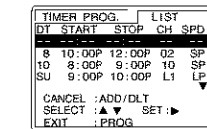
- 1) Press **▶** to display.
- 2) Repeat Step 2
(above) to set new
programs.



or

To Clear program...

Press **ADD/DLT**.



- d) Press **PROG** to end the programming.

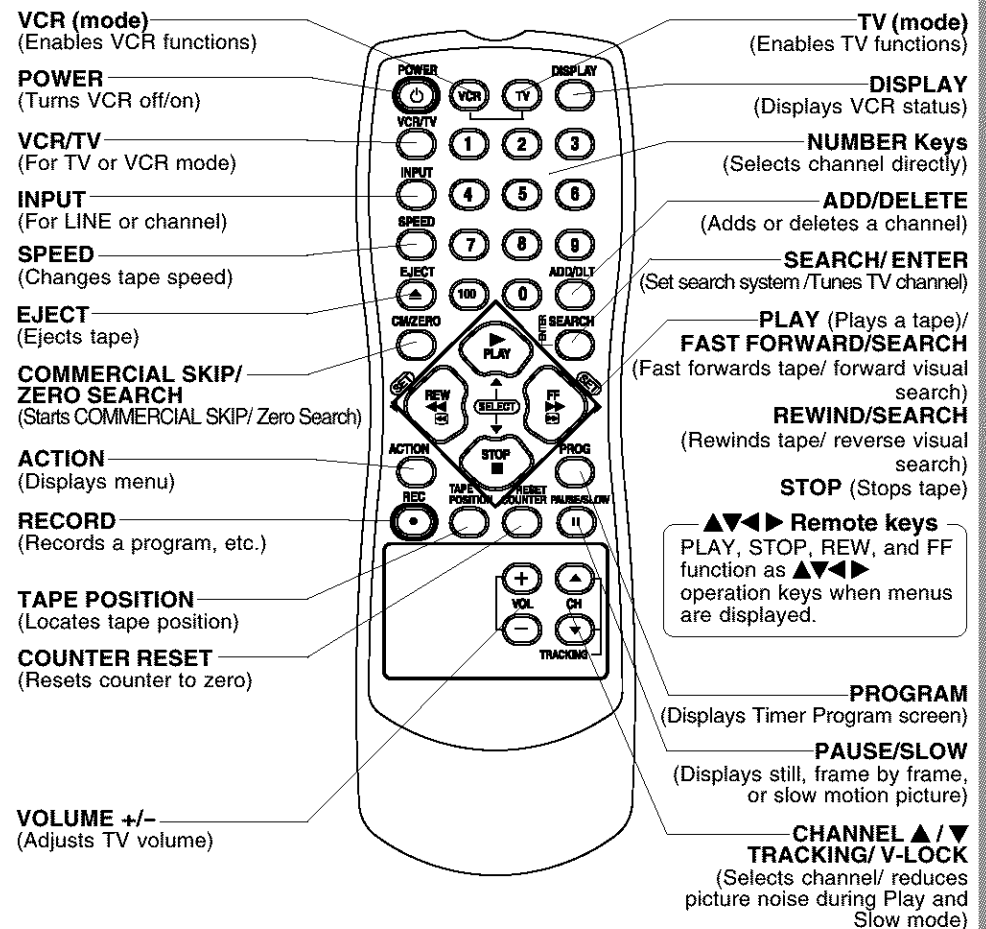
Notes

- If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be 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 re-enter the timer programs.

Important notes when using DSS receiver

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

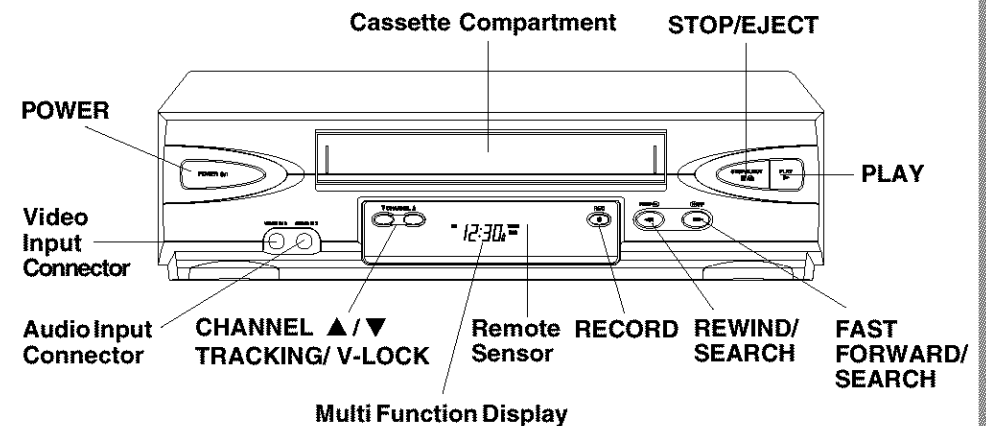
Remote Control Buttons



Remote Control

EJECT button: Press to eject tape. EJECT is not available during recording.

Front View of the VCR

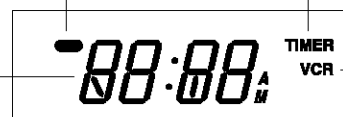


***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Multi Function Display

Power Indicator
Lights up when power is on.

Timer Indicator
Lights up 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.



VCR Indicator
Lights up 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.

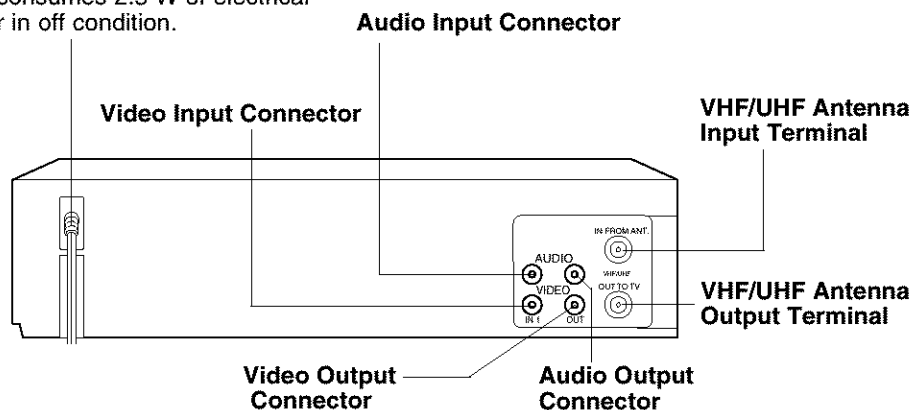
Briefly displays the channel number, or "L1" or "L2" when a channel or line input is selected.

Briefly displays the recording speed when SPEED is pressed.

Rear View of the VCR

AC Power Plug

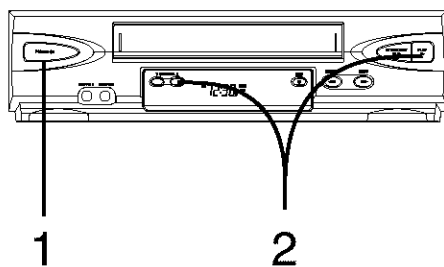
While plugged into an AC outlet, the VCR consumes 2.5 W of electrical power in off condition.



Reset All VCR Memory Functions

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

- Make sure a tape is not inserted in the VCR.



- 1 Turn VCR Power on.
- 2 Press and hold both **PLAY** and **CHANNEL ▲** on the VCR for more than 5 seconds.
 - The power shuts off.
- 3 Do "Initial Setup (Ready to Play)" on page 4.

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.

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

Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.
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Carolina, Puerto Rico 00985



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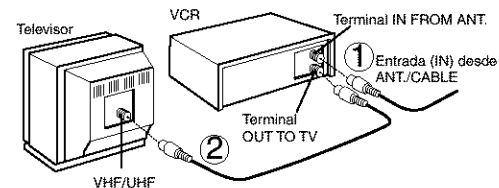
CONEXIONES/CONFIGURACIÓN INICIAL (READY TO PLAY)

Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA. La videograbadora iniciará automáticamente la fijación de los canales y del reloj al enchufar el cable de CA.

CONEXIONES

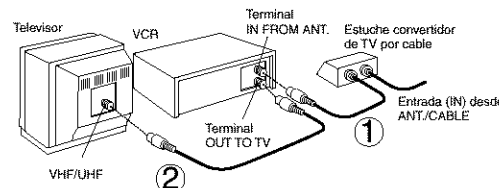
Para Ant/Cable → VCR → TV

- 1 Conecte el cable de la antena al terminal IN FROM ANT del VCR.
- 2 Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



Para Sistema Digital de Satelite (DSS)/ Convertidor de cable → VCR → TV

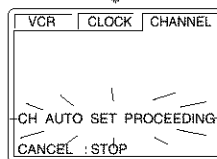
- 1 Conecte la salida de convertidor de cable al terminal IN FROM ANT.
- 2 Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



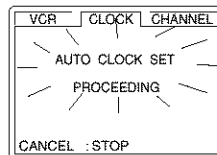
CONFIGURACIÓN INICIAL

- 1 Encienda el TV y cambie al canal 3.
- 2 Enchufe el cable de CA. La videograbadora se encenderá e iniciará las fijaciones de los canales y del reloj.
 - Si no aparece la pantalla de abajo, compruebe la conexión del VCR-TV y si el canal del TV está a 3, intente cambiando al canal 4.
 - Para cambiar el canal de salida del VCR, consulte las instrucciones de "Canal de salida del VCR" en la página 12 de las operaciones avanzadas.

Enchufe el cable de CA.



Cambie el idioma luego de la fijación inicial (para su ayuda vea la página 12 de las operaciones avanzadas.)



Si está usando un convertidor de TV por cable y en su area hay un canal de Public Broadcast Station (PBS), ajuste su convertidor al canal PBS de su area. Si está usando un receptor DSS, este debe estar apagado.

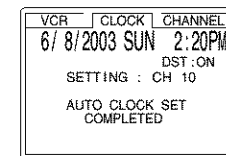
Nota

- Los botones de funciones no funcionan durante la configuración inicial.
- Para retirar un cassette durante el ajuste automático, presione EJECT en el control remoto o STOP dos veces en el aparato. En este caso, los ajustes de los canales y la hora se deben hacer manualmente. Para los ajustes seleccione la pantalla MENU (vea la p.12 de Libro de Operaciones Avanzadas).
- Dependiendo de las condiciones, el ajuste automático puede durar más de 30 minutos. En ese caso, presione STOP para detener el ajuste automático y realice los ajustes manualmente en la pantalla MENU (vea la p.12 de Libro de Operaciones Avanzadas).

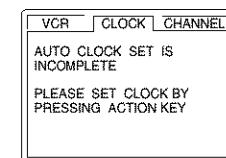
PRECAUCIÓN

Al usar cables coaxiales RF del tipo "tuerca", apriételes solamente con los dedos. Un apriete excesivo puede dañar los terminales.

- 3 Las fijaciones se realizan automáticamente. Cuando termina las fijaciones, aparecerá la siguiente pantalla.



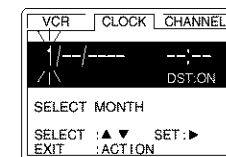
Si aparece en la pantalla "AUTO CLOCK SET IS INCOMPLETE (FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO)", Ajuste el reloj como se describe a continuación.



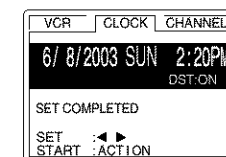
AJUSTE MANUAL DEL RELOJ

Si la fijación ha sido incompleta.

- 1 Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.



- 2 Presione ▲▼ para seleccionar el mes y ► para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).



- 3 Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

OPERACIONES BÁSICAS PARA LA REPRODUCCIÓN

- 1 Inserte una cassette.
- 2 Presione **PLAY** para reproducir el cassette.
 - Si el cassette no tiene la lengüeta de prevención de grabación (p. 3), se inicia la reproducción automáticamente.

Detalles especiales durante la grabación

- Presione **FF** o **REW** para búsqueda de escenas hacia delante/ hacia atrás. Presione **PLAY** para liberar. Durante la búsqueda, cada vez que presione **FF** o **REW** se cambia la velocidad como sigue:
 - [SLP] aprox. 21X ↔ aprox. 9X
 - [LP] aprox. 9X ↔ aprox. 7X
 - [SP] aprox. 7X ↔ aprox. 3X
 Si la imagen se interrumpe con la velocidad de 21x, 9x o 7x, cambie la velocidad a 9x, 7x o 3x.
- 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 del cassette.
 - Presione **EJECT** en el control remoto, o **STOP/EJECT** en el VCR para expulsar el cassette.

OPERACIONES BÁSICAS PARA LA GRABACIÓN

- 1 Inserte el cassette con lengüeta de protección de grabación (p. 3).
 - La alimentación del VCR se activa. En la pantalla Multi Función se ilumina "VCR".
- 2 Presione **CH** ▲▼, o las teclas de números para seleccionar el canal.
- 3 Presione **SPEED** para seleccionar la velocidad de grabación (p. 3)
 - SP = Reproducción estándar,
 - LP = Larga duración,
 - SLP = Superlarga duración.
- 4 Presione **REC** para comenzar a grabar.
 - Para eliminar escenas indeseadas, presione **PAUSE/SLOW** para hacer una pausa, y al presionar nuevamente continua la grabación.

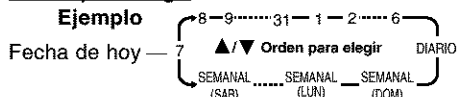
- 5 Presione **STOP** para detener la grabación.
 - Grabación de un toque. Presione **REC** repetidamente para ajustar la duración de la grabación como sigue: como sigue: 30 min. → 1 hr → 1:30hr → 2:00 → 3:00 → 4:00 → Salida. La VCR se apagará automáticamente en un intervalo seleccionado de tiempo.
 - Ver un canal y grabar otro. Presione **VCR/TV**. (La indicación VCR se apagará en la "visualización de Multi-Función")
 - Seleccione canales de TV (Mientras permanece grabando)
 - Seleccione canales con VCR. Presione **VCR/TV** (la indicación "VCR" se encenderá en la visualización multi-función)
 - Seleccione canales en su VCR.

PROGRAMACIÓN FÁCIL PARA LA GRABACIÓN CON TEMPORIZADOR

- 1) Presione **PROG.**
- 2) Presione ▼ para visualizar la pantalla de Programación.
- 2) 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.



Orden para elegir



- 2) Para los ajustes siguientes, presione ▲▼ para seleccionar y presione ► para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LINEA, y velocidad del cassette (SP, LP, SLP). Presione **PROG** para finalizar el programa.
- 3 Presione ▲▼ para seleccionar un número que no está usando para ingresar mas programas y presione ► para ajustar. Luego repita el paso 2.

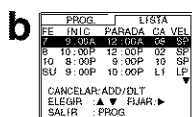


Presione nuevamente **PROG** para salir.

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

REVISIÓN, REEMPLAZO O BORRADO DE PROGRAMACIONES (no se puede efectuar durante la grabación)

- 1) Presione **PROG.**
- 2) Presione ◀▶ para seleccionar la línea.



Presione ▲▼ para seleccionar programa deseado.

c Para reemplazar programa...

- 1) Presione ► para desplegar menu.
- 2) Repita paso 2 (ver arriba) para introducir el nuevo programa.



Para cancelar programas... Presione **ADD/HLT**

- d Presione **PROG** Para terminar programación.

PARA CANCELAR LA GRABACIÓN CON TEMPORIZADOR (la grabación está teniendo lugar)

Presione **POWER** y luego **STOP** dentro de los 10 segundos para cancelar la grabación con temporizador (el indicador **TIMER** se apagará en la Pantalla de Multi-Función)

ANTES DE AL SERVICIO SOPORTE TÉCNICO

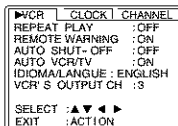
Verifique los siguientes puntos una y otra vez si esta teniendo problemas con su VCR. (BO : Haga referencia en la instrucciones de funcionamiento [Operaciones Básicas]) (AO : Haga referencia en la instrucciones de funcionamiento [Operaciones Avanzadas])

ALIMENTACIÓN DE AC	CORRECCIÓN
La unidad no enciende....	<ul style="list-style-type: none"> • Revise que el cordón de alimentación de AC este correctamente conectado a la toma de pared. • Presione el botón "POWER" para el encendido de la unidad. • Verifique que la fuente de alimentación está activada.
GRABACIÓN Y REPRODUCCIÓN (REC / PLAY)	CORRECCIÓN
No se pueden grabar programas de TV	<ul style="list-style-type: none"> • Revise las conexiones entre VCR, antena externa o cable y TV. • Verifique la selección de conexiones (BO p. 4, AO p. 3) • Verifique que su sistema de antena (Cable o TV) estén correctamente seleccionados. Vea "Channels" (AO p. 12). • Asegúrese que la pestaña en el cassette de grabación esté intacta (BO p. 3).
No se puede efectuar grabación con temporizador...	<ul style="list-style-type: none"> • Compruebe que el reloj ha sido ajustado a la hora y fecha actual. Asegúrese de que la caja de Cable/DSS (si se utiliza) se deja encendido y está sintonizado al canal a grabar. • Ajuste las horas de comienzo y detección de grabación correctamente. (BO p. 6) • Asegúrese de que ha apagado el VCR antes de la grabación. (BO p. 6) • La grabación con temporizador quizás no pueda realizarse o continuarse si se produjera una interrupción de corriente antes o durante una grabación con temporizador, incluso después de restablecido el fluido eléctrico.
No hay imagen de reproducción, o la imagen de reproducción tiene ruidos o contiene rayas...	<ul style="list-style-type: none"> • Seleccione el canal 3 o 4 en el televisor, de modo que corresponda con el canal de salida del videograbador (3 o 4) (BO p. 4), o seleccione LINE. • Ajuste el selector VCR/TV a "VCR". • Ajuste el control TRACKING en una de las dos direcciones. (BO p. 3) • Pruebe a realizar la limpieza de cabezales. (BO p. 3)
En la reproducción de efectos especiales, la imagen puede contener algunos saltos verticales cuando se utiliza un televisor con Control de Bloqueo Vertical Automático...	<ul style="list-style-type: none"> • Ponga el Control de Bloqueo Vertical del televisor en "MANUAL" y luego realice el ajuste.
No se puede controlar el VCR...	<ul style="list-style-type: none"> • Asegúrese de que el aparato está encendido. • Revise las pilas del control remoto. • Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10) • Asegúrese de que no está funcionando una grabación con temporizador.
CONTROL REMOTO	CORRECCIÓN
NO funciona el control remoto...	<ul style="list-style-type: none"> • Asegúrese de que el aparato está encendido. • Asegúrese de que el control remoto está en el modo de VCR. • Apunte el control remoto directamente al sensor remoto del VCR. (BO p. 7) • Evite que ningún objeto interrumpa la señal del control remoto. • Revise las pilas del control remoto (BO p. 3) • Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10) • Si el sensor remoto recibe directamente la luz del fluorescente o luz solar puede causar interferencia con la señal del control remoto.
Los botones "ACTION" y/o "PROG" no responden...	<ul style="list-style-type: none"> • Verifique las conexiones entre VCR, cable o antena y TV. • Presione el botón VCR para el modo de "VCR". (AO p. 2) • Revise las baterías del control remoto. (BO p. 3)
Varios	CORRECCIÓN
No se pueden ver los programas en el televisor...	<ul style="list-style-type: none"> • Asegúrese que la TV este encendida. • Asegúrese que la TV esté conectado a la salida de la VCR (VCR Out). • Verifique conexiones entre VCR, cable o antena y TV. • Ajuste el selector VCR/TV a "TV". (BO p. 5, AO p.10) • Asegúrese que la apropiada señal fue seleccionada.
No se puede introducir la cassette de video...	<ul style="list-style-type: none"> • Inserte el cassette con el lado de la ventana hacia arriba y la pestaña de grabación frente a usted. • Verifique que no tenga ningún cassette dentro del aparato.
No se puede extraer la cassette de video...	<ul style="list-style-type: none"> • Inserte o conecte completamente el cable de alimentación de AC a la toma de pared.
La cassette de video es expulsada al dar comienzo a una grabación o al desactivar la alimentación para la grabación con temporizador...	<ul style="list-style-type: none"> • Asegúrese que la pestaña de grabación del cassette este intacta. (BO p. 3)
En el modo de Detención, el motor (CILINDRO) sigue girando...	<ul style="list-style-type: none"> • Para activar rápidamente el mecanismo de reproducción, el cilindro sigue rotando durante 3 minutos. Esto disminuye el tiempo de respuesta desde la parada hasta la reproducción o hasta la el modo de búsqueda en rebobinado.

• Guía para rápida consulta (Spanish Quick Use Guide) • Location of Controls (Multi Function Display, Rear View of the VCR)

Si no puede resolver su problema, por favor comunicarse al Centro de llamadas del Cliente para asistencia del producto al 1-800-211-PANA(7262). Para localizar un centro de servicios autorizado, llame sin costo al 1-800-211-PANA(7262) o envíe un correo a : consumerproducts@panasonic.com

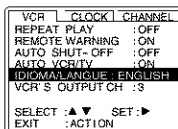
Reset Language, Channels, Clock, VCR's Output Channel



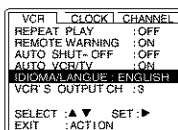
Press **ACTION*** to display MENU.

Language

1) Press **▲▼** to select language item.



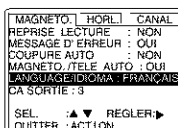
2) Press **▶** repeatedly.



For English



For Spanish

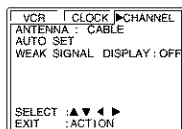


For French

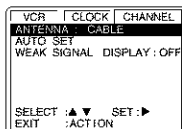
3) Press **ACTION** to exit.

Channels

1) Press **◀▶** to select CHANNEL.

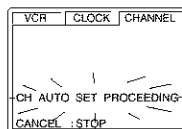


2) Press **▲▼** to select "ANTENNA," then press **▶** to set your antenna system ("TV" or "CABLE.")



3) Press **▲▼** to select "AUTO SET," then press **▶**.

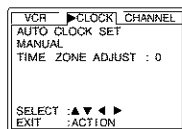
• If you use Cable Box, set it to the PBS channel in your time zone.



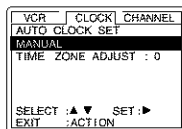
• After Channel Auto Set is finished, Auto Clock Set will be performed.

Clock

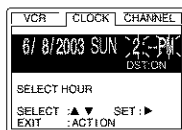
1) Press **◀▶** to select CLOCK.



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



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



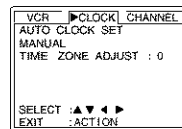
3) Press **▲▼** and **◀▶** to select and set the date, time, and DST (Daylight Saving Time).

4) Press **ACTION** to start the Clock and exit this mode.

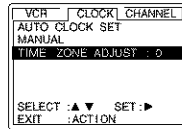
Time Zone Adjust

(Only when Auto Clock is set.)

1) Press **◀▶** to select **CLOCK**.



2) Press **▲▼** to select "TIME ZONE ADJUST"



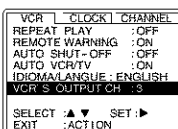
and press **▶** to subtract or add hour(s) as necessary.

3) Press **ACTION**.

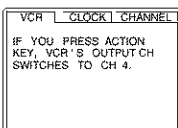
• "TIME ZONE ADJUST" returns to "0" if clock is set manually.

VCR's Output Channel

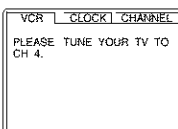
1) Press **▲▼** to select "VCR'S OUTPUT CH."



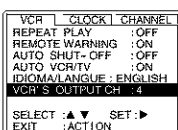
2) Press **▶**.



3) Press **ACTION**.



After 3 seconds

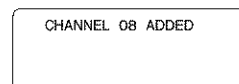


• To Make Corrections, repeat steps 1) ~ 3).

Add or Delete a Channel

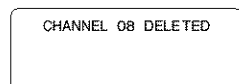
To add channel:

Select channel with **NUMBER** keys and press **ADD/DLT**.



To delete channel:

Select channel with **CH ▲▼** or **NUMBER** keys and press **ADD/DLT**.



DST (Daylight Saving Time)

VCR auto adjusts clock for DST.

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 VCR for timer recordings.

Panasonic®



Omnivision VHS

Video Cassette Recorder Operating Instructions (Advanced Operations)

For Basic operations, see the separate "Basic Operations" instruction book.

Model No. PV-V4022-A

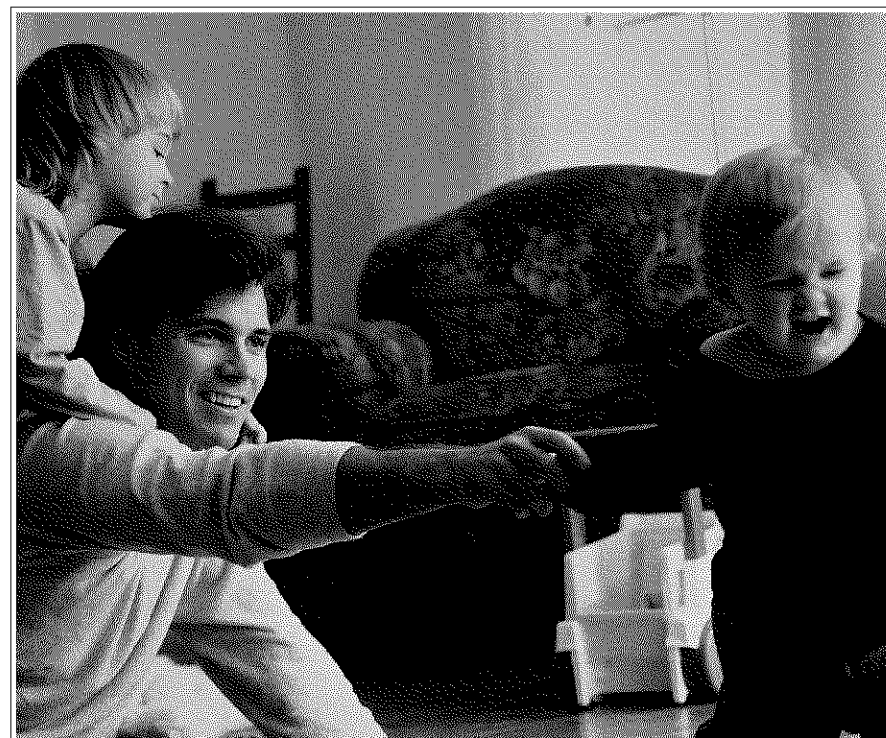


Table of Contents

Multi-Brand Control Feature	2
Advanced Connections (Cable/DSS)	3
On-Screen Displays (OSD)	4
Warning and Instruction Displays	5
Tape Operation	6, 7
Copying Your Tapes (Dubbing)	9
Special VCR Features	10
Before Requesting Service	11
Reset Language, Channels, Clock, VCR's Output Channel ...	12

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.

LSQT0699A

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

• Reset Language, Channels, Clock, Time Zone Adjust, VCR's Output Channel • DST • Before Requesting Service

Multi-Brand Control Setup

The Remote Control can be set to control some TV functions.

- 1 Find your TV Brand Code Number from those shown below.**
- 2 Set up for TV control,**
 - hold down **TV** button,
 - enter code with **NUMBER** keys.
- 3 Confirm code entry,**
 - press **POWER** to turn your TV 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 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 or TV for the desired function.

Press **VCR** or **TV** on the remote.

(Table below shows available unit buttons for each mode.)

Unit Mode	VCR	TV
VCR	All	VOL UP/DOWN
TV	VCR/TV, PLAY, STOP, EJECT, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, CM/ZERO, RESET COUNTER, TAPE POSITION	POWER, INPUT, ENTER, NUMBER keys, CH UP/DOWN, VOL UP/DOWN

- Notes**
- Not all functions listed may be controllable.
 - In TV mode, it may be necessary to press ENTER after pressing NUMBER keys for channel selection.

TV Brand Code Numbers

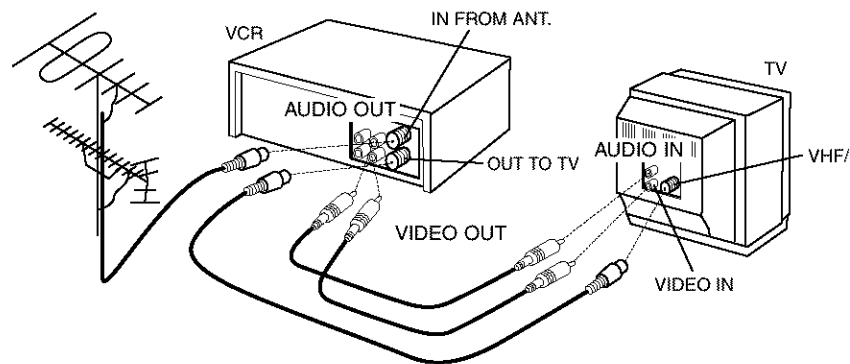
Panasonic	01, 02	Sylvania	05	JVC	11
Quasar	01, 02	Sharp	06, 07	Hitachi	12
RCA	03	Sony	08	Mitsubishi	07, 13
GE	03	Toshiba	09	Samsung	14
Zenith	04	Sanyo	10	Gold Star	15, 16, 17
Magnavox	05	Fisher	10		

Important Notes

- Some manufacturers use several codes for one brand. If the first code entered fails, try the next one listed.
- Some TV brands require you to turn on the power manually.

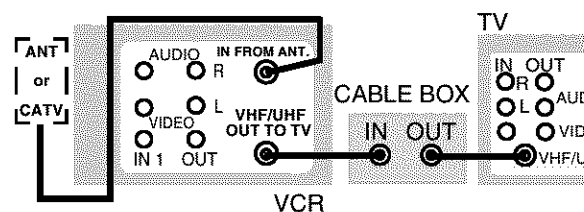
Audio/Video connection

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



- 1** Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.
- 2** Connect VCR's AUDIO OUT jack to the TV's AUDIO IN jack.
- 3** Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

With a Cable Box (VCR → Cable Box)



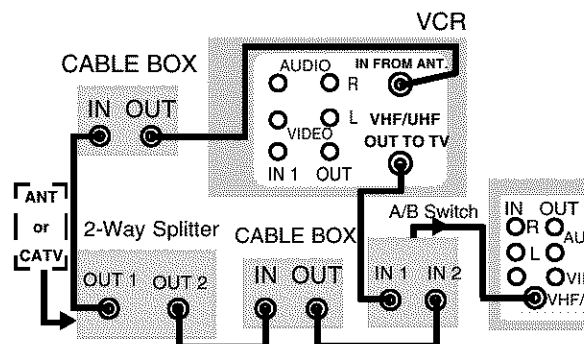
You Can

- 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

- 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 a 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.

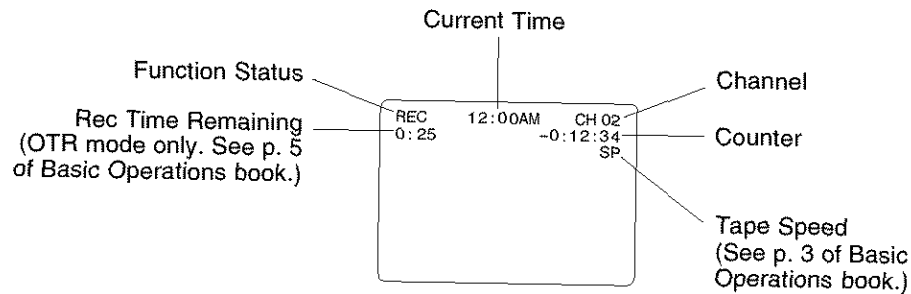
Blank Tape/No Video Signal Indications

When blank tape is detected during play, or the current channel has no signal (with Weak Signal Display feature (p. 10) set to OFF), the TV screen will turn solid blue.

VCR Status & Clock Displays

To display or remove overlay at right,

→ press DISPLAY*.



TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set...	See page 6 of Basic Operations book
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab...	See page 3 of Basic Operations book
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted...	See page 5 of Basic Operations book
TO CANCEL TIMER REC PRESS POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)	See page 6 of Basic Operations book
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL	If head cleaning becomes necessary while playing back a tape...	See page 3 of Basic Operations book
END :PLAY		
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode...	See page 10
REMOTE CONTROL IS SET TO TV MODE	If you press an invalid key on the remote while in TV mode...	See pages 2, 10
USE VCR : VCR KEY		

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

1 Press **SEARCH*** to display SEARCH in Stop or Play mode, and then press **NUMBER** keys to select recording number.

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

- To calculate number, see below.

Press **FF** or **REW** to start search.

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

```
INDEX SEARCH
FORWARD SEARCH :FF
REVERSE SEARCH :REW
```

- To cancel, press **STOP** or **PLAY**.

Program End Search

Locates end point of recording for continuity.

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

2 Press **FF** to start PROGRAM END SEARCH.

- To cancel, press **STOP** or **PLAY**.

```
SEARCH
INDEX PROGRAM END
SEARCH START :FF
EXIT :SEARCH
```

Examples of Program End Search.

Fig. 1

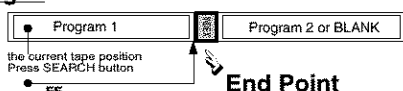


Fig. 2

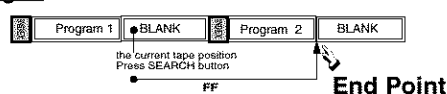
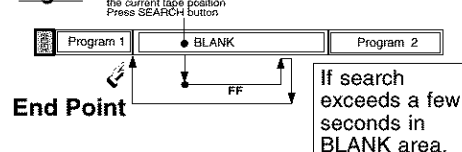


Fig. 3



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.

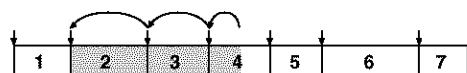
Notes

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

To Calculate Index Number

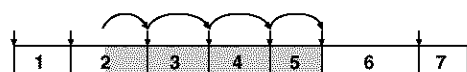
Example 1:

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.

Repeat Play

Set to playback a recording over and over.

1 Press **ACTION** to display menu.

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

```
VCR CLOCK CHANNEL
REPEAT PLAY OFF
REMOTE WARNING ON
AUTO SHUT-OFF OFF
AUTO VCR/TV ON
IDIOM/LANGUAGE : ENGLISH
VCR S. OUTPUT CH : 3
SELECT :▲▼ SET :▶
EXIT :ACTION
```

ON : 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.

1 Press **DISPLAY** during play to display Counter.

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

```
PLAY 12:00AM 0:00:00
SP
```

3 Continue to record, playback, etc.

4 Press **STOP**.

5 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.

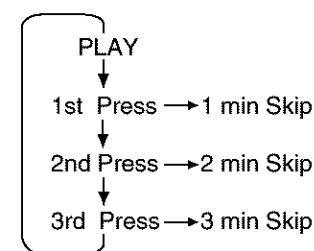
```
STOP 12:31AM CH 02
0:00:00
SP
```

Commercial Skip

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

1 Press **CM/ZERO** in Play mode.

- Press **CM/ZERO** repeatedly to change skip time as shown below.



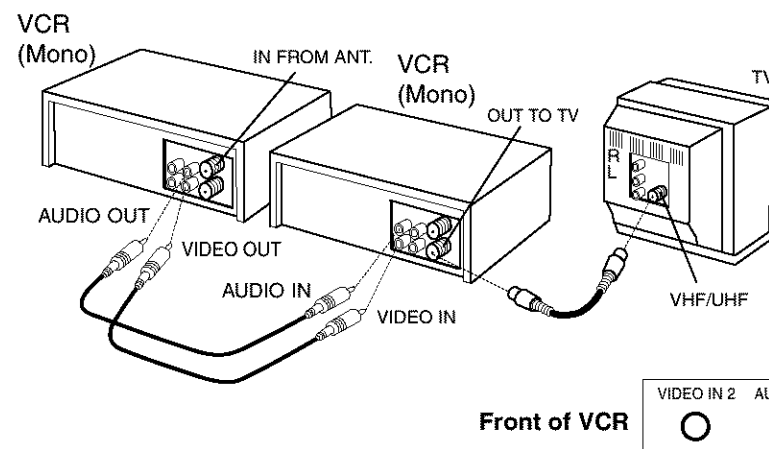
- No indication appears.

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

Copying Your Tapes (Dubbing)

Connection

(Rear connection shown.)



(Front Audio/Video IN jacks are also provided)

- ① Connect VIDEO OUT jack on Playing VCR to VIDEO IN jack on Recording VCR. To monitor the dubbing, also connect a TV as shown.
- ② Connect AUDIO OUT jack on Playing VCR to AUDIO IN jack on Recording VCR.

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

Playing (Source) VCR

Recording (Editing) VCR

- | | |
|--|--|
| <ol style="list-style-type: none"> 1 Insert pre-recorded tape. | <ol style="list-style-type: none"> 1 Insert blank tape with record tab. |
| <ol style="list-style-type: none"> 2 _____ | <ol style="list-style-type: none"> 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.) |
| <ol style="list-style-type: none"> 3 Press PLAY, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode. | <ol style="list-style-type: none"> 3 Press REC, then PAUSE/SLOW immediately to enter REC/PAUSE mode. |
| <p>The operation of steps 4 and 5 must be done on both playing and recording VCRs at the same time.</p> | |
| <ol style="list-style-type: none"> 4 Press PLAY to start dubbing. Playing VCR starts playback. | <ol style="list-style-type: none"> 4 Press PAUSE/SLOW to start dubbing. Recording VCR starts recording. |
| <ol style="list-style-type: none"> 5 Press STOP to stop dubbing. | <ol style="list-style-type: none"> 5 Press STOP to stop dubbing. |

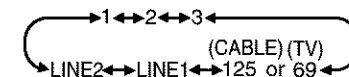
■ To Monitor Dubbing on Your TV

- 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
- Method 2:**
Press **CH ▲ / ▼**.
Display will change as below.

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.

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

Panasonic Consumer Electronics Company,
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One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

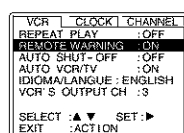


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Remote Warning ON/OFF Feature

If Multi-brand feature is used (page 2), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV mode.

1 Press ACTION to display menu.



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

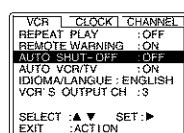
- If "OFF," remote warning will not appear if invalid key is pressed.

3 Press ACTION to return to normal screen.

Auto Shut-Off Feature

The power shuts off at a preset time.

1 Press ACTION to display menu.



Press **▲▼** to select **AUTO SHUT-OFF**. Press **▶** repeatedly to change shutoff time as shown below.

OFF → 2 Hours → 4 Hours → 6 Hours

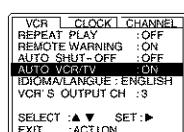
3 Press ACTION to return to normal screen.

- Note**
- The shut-off countdown will not function during Play or Record.

VCR/TV Selector Feature

The VCR/TV selection can be set to auto or manual.

1 Press ACTION to display menu.



Press **▲▼** to select **AUTO VCR/TV**, and press **▶** to set **ON** or **OFF**.

- OFF(Manual): You select "VCR" or "TV" mode using the VCR/TV button on the unit or remote.
- ON(Auto): "VCR" mode is automatically set when VCR is turned on, or in Play mode.

3 Press ACTION to return to normal screen.

Note

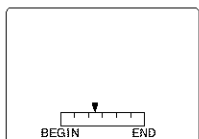
- For more on VCR/TV selection, see "Record one station, watch another" and "Select channels on VCR" sections (see p. 5 of Basic Operations book).

Tape Position Display Feature

To find out the present tape position. **Tape position is displayed for VHS-C Cassettes type, tapes under 30 minutes, and some other tapes, but the position is not correct.**

1 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.

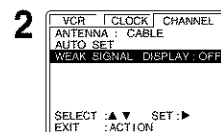
- The present tape position indication is displayed.

2 Press TAPE POSITION to return to normal screen.

Weak Signal Display ON/OFF Feature

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

1 Press ACTION to display menu.



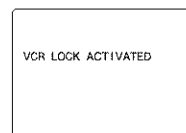
Press **◀▶** to select and display **CHANNEL**. Press **▲▼** to select **WEAK SIGNAL DISPLAY**, and press **▶** to set **ON** or **OFF**.

- ON: Picture is displayed even if signal is very weak but quality may be poor.
- OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

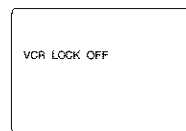
3 Press ACTION to return to normal screen.

VCR Lock Feature

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

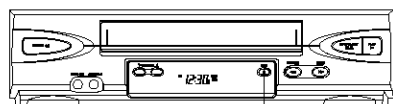


To turn on, hold down REC on the VCR in Stop mode with no tape inserted for 7 sec. (Please ignore the NO CASSETTE warning.)



To turn off, repeat above.

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



REC

Check the following points once again if you are having trouble with your VCR. (BO : refers to "Basic Operations" Instruction book.) (AO : refers to "Advanced Operations" Instruction book.)

Power	Correction
No power...	<ul style="list-style-type: none"> • Completely insert Power Plug into an AC outlet. • Set POWER button to on. • Make sure power source is active.
Recording & Playback	Correction
TV program cannot be recorded...	<ul style="list-style-type: none"> • Check connections between VCR, external antenna, and TV. • Check connections selection. (BO p. 4, AO p. 3) • Make sure your antenna system (CABLE or TV) is correctly set. (Channels [AO p. 12]) • Make sure cassette record tab is intact. (BO p. 3)
Timer recording cannot be performed...	<ul style="list-style-type: none"> • Confirm that clock is set to current time and date. • Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded. • Set recording start/stop times correctly. (BO p. 6) • Make sure VCR POWER button is pressed off. (BO p. 6) • Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.
There is no playback picture, or the playback picture is noisy or contains streaks...	<ul style="list-style-type: none"> • Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (BO p. 4) or select LINE. • Set VCR/TV selector to "VCR." • Adjust TRACKING control in either direction. (BO p. 3) • Try Head Cleaning. (BO p. 3)
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control...	<ul style="list-style-type: none"> • Set TV's Vertical Hold Control to MANUAL, then adjust.
VCR cannot be controlled...	<ul style="list-style-type: none"> • Make sure VCR power is on. • Check Remote batteries. • Make sure VCR LOCK is set to off. (AO p. 10) • Make sure Timer Record is not in progress.
Remote Control	Correction
VCR cannot be remote controlled...	<ul style="list-style-type: none"> • Make sure VCR power is on. • Make sure Remote is in VCR mode. • Aim Remote Control directly at remote sensor on VCR. (BO p. 7) • Avoid any object blocking signal path. • Check Remote batteries. (BO p. 3) • Make sure VCR LOCK is set to off. (AO p. 10) • Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons do not respond...	<ul style="list-style-type: none"> • Check connections between VCR, external antenna, and TV. • Press VCR button for VCR mode. (AO p. 2) • Check Remote batteries. (BO p. 3)
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none"> • Make sure TV power is on. • Make sure TV is set to output of VCR. • Check connections between VCR, external antenna, and TV. • Set VCR/TV selector to "TV." (BO p. 5, AO p.10) • Make sure proper signal source is selected.
Video cassette cannot be inserted...	<ul style="list-style-type: none"> • Insert the cassette with window side up; record tab facing you. • Check if a tape is already in the unit.
Video cassette cannot be removed...	<ul style="list-style-type: none"> • Confirm Power Plug is fully inserted into an AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none"> • Make sure cassette record tab is intact. (BO p. 3)
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none"> • 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.

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

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