

Panasonic®



Omnivision VHS

Video Cassette Recorder Operating Instructions (Basic Operations)

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

Models No. PV-V4022/PV-V4522



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*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.)

LSQF0507

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

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

POLARIZED PLUG CAUTION:

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

GROUNDING PLUG CAUTION:

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

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

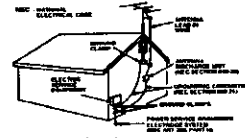


OUTDOOR ANTENNA INSTALLATION

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, ANS/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.

- 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.
- 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.
- USING ACCESSORIES**
Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.
- CLEANING THE UNIT**
Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. **DO NOT USE** cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

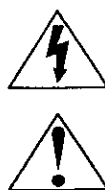
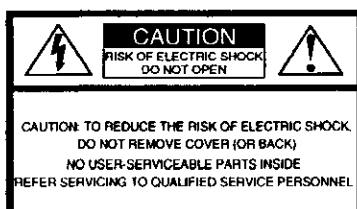
- DO NOT SERVICE THIS PRODUCT YOURSELF**
If, after carefully following the detailed operating instructions, this Video product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.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

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.


Before Using

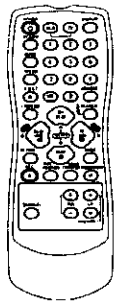
Congratulations

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. _____
- Serial No. _____

Accessories

- Remote Control
LSSQ0263 (PV-V4022)
LSSQ0264 (PV-V4522)
- Batteries 2 "AA"


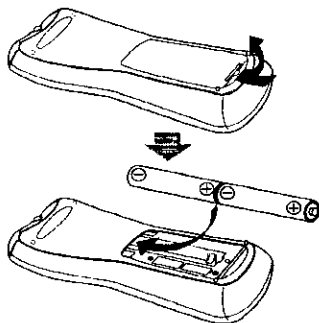


Model PV-V4522 remote shown.

- RF Coaxial Cable
VJAS0196


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

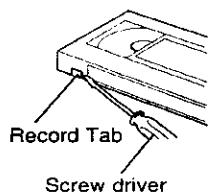
Loading the Batteries



- Battery replacement caution**
 - Do not mix old and new batteries.
 - Do not mix alkaline with manganese batteries.

Prevent Accidental Tape Erasure

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 (PV-V4022)
Approx. 23 W (PV-V4522)
Power Off
Approx. 2.5 W (PV-V4022)
Approx. 3.0 W (PV-V4522)
- Video Signal:** EIA Standard NTSC color
- Video Recording System:** 4 rotary heads helical scanning system
- Audio Track:** 1 track (Normal)
2 channel
(Hi-Fi Audio Sound PV-V4522)
- Tuner:**
- Broadcast Channels:** VHF 2 - 13, UHF 14 - 69
- CABLE Channels:** Midband A - 1 (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 (6.0 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.

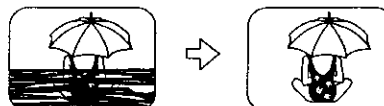
Digital Auto Tracking

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.

Important Safeguards • Accessories • Head Cleaning • Loading Batteries • Prevent Tape Erasure • Specifications • Record/Playback Time

Connections / Initial Setup (Ready to Play)

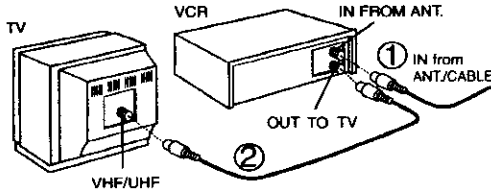
Please make all cable or antenna connections before plugging into the AC outlet.

Plugging the VCR Power Cord into an AC wall outlet starts auto channel and clock set.

Connecting

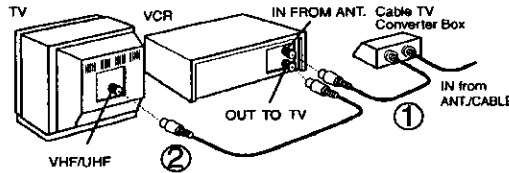
For ANT./Cable → VCR → TV

- 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

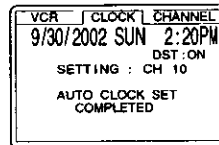
- 1 Connect your cable box's OUT jack to the VCR's IN FROM ANT. jack with an RF cable.
- 2 Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



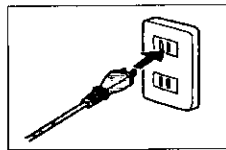
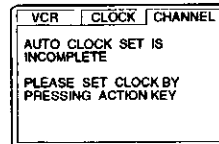
Doing Initial Setup (Ready to Play)

- 1 Turn TV on and tune to channel 3.
- 2 Plug VCR Power Cord Into AC wall outlet. VCR comes on and auto channel and clock set starts.
 - If screen below does not appear, check VCR - TV connection and, if TV is tuned to channel 3, try switching it to channel 4.
 - To change VCR's output channel, please refer to "VCR's Output Channel" in Advanced Operations book (p. 12).

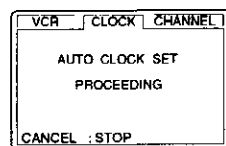
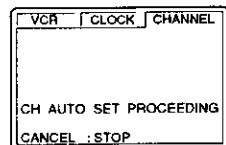
- 3 Settings are made automatically. When setup is done, this screen appears.



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



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 DSS receiver, it must be turned off.

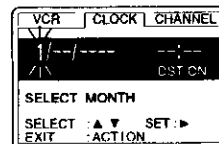
WARNING

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

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 (daylight saving time).

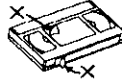


- 3 Press ACTION to start clock and exit.

Playback / Record on a Tape

Playback a Tape

- 1 **Insert a tape.**
 - Loose or peeling labels may cause tape jam.
- 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.

Record on a Tape

- 1 **Insert a tape with a record tab** (p. 3).
- 2 **Press CH ▲▼** or **NUMBER** keys to select the channel.
 - For "LINE" input, see p. 9 of "Advanced Operations" book.
 - If 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** (record 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 at TV (recording continues).

- **Select channels at VCR (in STOP or PAUSE mode)**
Press **VCR/TV** ("VCR" lights up on Multi Function Display),
→ select channels at **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

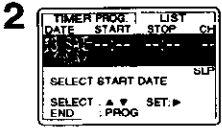
- **Auto Play**
Insert a tape → Power comes on → Play starts if no record tab (see p. 3).
- **Auto Rewind**
Play
Fast Forward } → Tape end → Rewind
- **Play Auto Eject**
(Repeat Play must be off)
Play → Tape end → Rewind → Tape ejects if no record tab

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

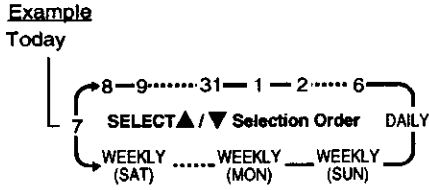
Timer Recording

Timer Recording

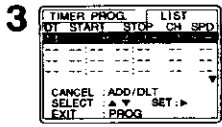
- 1) Press **PROG***.
- 2) Press **▼** to display program screen.



- 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. 3), and **tape speed** (p. 3).



Press **PROG** to end programming.



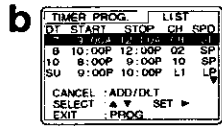
- To Enter More Programs**
 Press **▲▼** to select and press **▶** to set an unused program. Then repeat step 2.
 Or, press **PROG** to exit.

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

Review, Replace, or Clear Program

(Recording is not in progress)

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



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

c) 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 program.

Cancel a Timer Recording

(Recording is in progress)

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

Notes

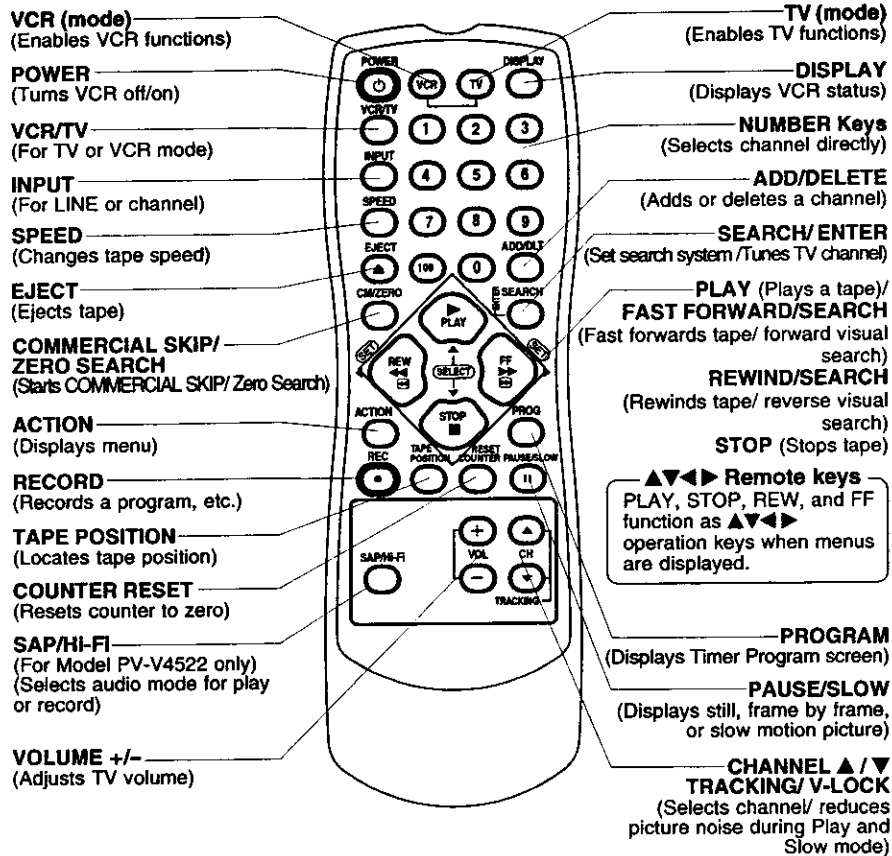
- If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be left on.
- If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please reenter 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.

Location of Controls

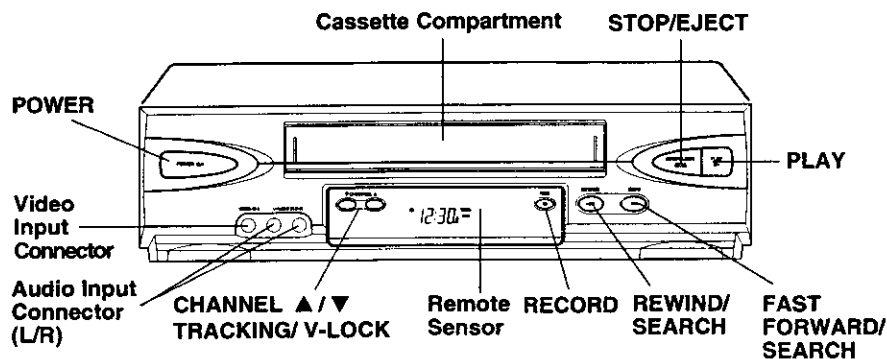
Remote Control Buttons



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

Front View of the VCR

Model PV-V4522 VCR shown.



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

Location of Controls

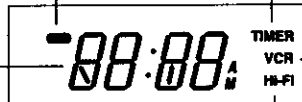
Multi Function Display

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.

Hi-Fi Indicator

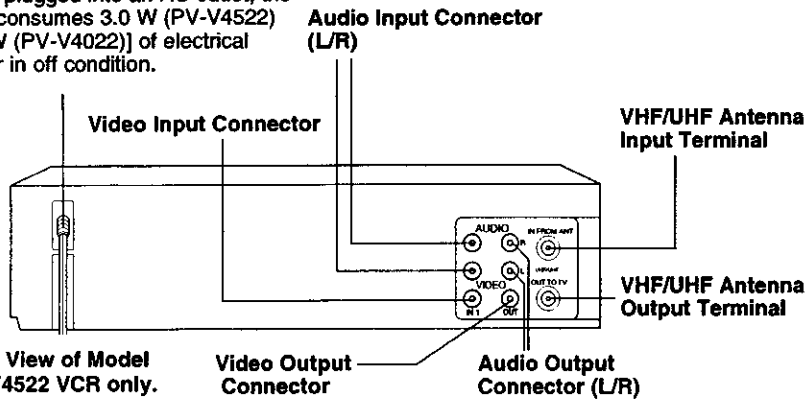
(For Model PV-V4522 only)

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

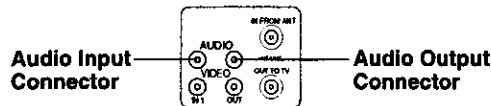
Rear View of the VCR

AC Power Plug

While plugged into an AC outlet, the VCR consumes 3.0 W (PV-V4522) [2.5 W (PV-V4022)] of electrical power in off condition.



Rear View of Model PV-V4522 VCR only.



Rear View of Model PV-V4022 VCR only.

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.

Spanish Quick Use Guide/ Guía para rápida consulta

CONEXIONES/CONFIGURACION INICIAL (READY TO PLAY)

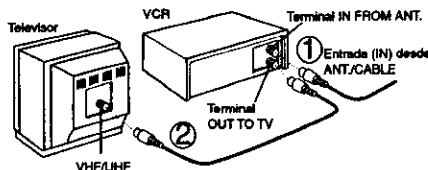
Favor realice la conexión de antena o cable antes de conectar el cordón de AC a la toma de pared.

Conectando el cordón de AC de la VCR en toma de pared iniciará automáticamente la búsqueda de canales y colocación de tiempo.

CONECTANDO

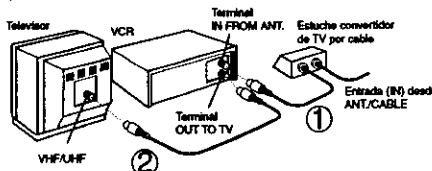
Para Ant/Cable → VCR → TV

- 1 Conecte Ant/Cable a la entrada de antena de la VCR (VCR In)
- 2 Conecte la salida de la VCR (VCR Out) a la entrada de antena de la TV (TV In) con el cable-accesorio RF incluido.



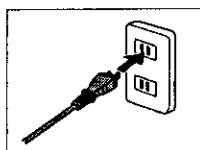
Para Sistema Digital de Satelite (DSS) Convertidor de cable → VCR → TV

- 1 Conecte la salida del convertidor de cable a la "VCR In" con el RF cable accesorio incluido.
- 2 Conecte "VCR Out" a la "TV In" con el cable-accesorio incluido.

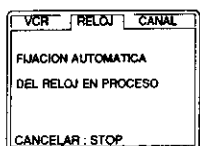


REALIZANDO CONFIGURACION INICIAL

- 1 Encienda la TV y cambie a canal 3.
- 2 Conecte cordón de AC de la VCR a la toma de pared. La VCR se activará e iniciará búsqueda de canales y colocación de tiempo.
 - Si la pantalla abajo no aparece cheque la conexión VCR-TV y si la TV fue cambiada a el canal 3, trate cambiando a el canal 4.
 - Para cambios a el canal de salida de la VCR favor hacer referencia a "VCR's Output Channel" mas adelante descrito en el libro de operaciones (p. 12).



Conectando cordón de AC a la toma de pared.



Si usa convertidor de cable solo enciendala y seleccione el canal PBS en su horario de uso u horario de zona. Si utiliza receptor DSS este debe estar apagado.

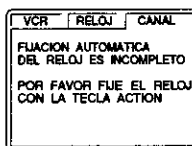
PRECAUCION

Si se sobre ajusta "NUT TYPE" el cable coaxial RF podría dañar las terminales de conexión. Ajusta ligeramente utiliza solo los dedos.

- 3 Selecciones se realizaron automáticamente cuando la configuración termino, esta pantalla aparece.



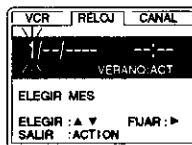
SI "FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO" aparece, coloque manualmente el tiempo, vealo abajo.



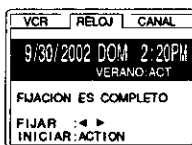
AJUSTE MANUAL DEL RELOJ

Si la colocación de tiempo fue 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,**
 - la alimentación del VCR se activa. En la Pantalla de Visualización Multi Función se ilumina "VCR".
- 2 **Presione PLAY** para reproducir el cassette.
 - Si el cassette no tiene lengüeta de prevención de grabación (p. 3), se inicia la reproducción automáticamente.

Detalles especiales durante la grabación

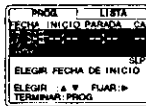
- **Presione FF o REW** para búsqueda de escenas hacia delante/ hacia atrás. **Presione PLAY** para liberar. Después que la búsqueda ha iniciado. **Presione FF o REW** en cada uno de los cambios de velocidades mostradas abajo. [SLP] aprox. 21X ↔ aprox. 9X [LP] aprox. 9X ↔ aprox. 7X [SP] aprox. 7X ↔ aprox. 3X Si a velocidad de 21X, 9X, o 7X la imagen se interrumpe cambie a velocidad 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 de el 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 pausar, y al presionar nuevamente se reanuda la grabación.
- 5 **Presione STOP** para detener la grabación.
 - **Grabación de Un Toque** (grabar en marcha), **Presione REC** repetidamente para colocar diferentes periodos de tiempo de grabacion como sigue: 30 min. → 1 hr → 1:30hr → 2:00 → 3:00 → 4:00 → Salida. La VCR se apagara automaticamente en en intervalo seleccionado de tiempo.
 - **Ver un canal y grabar otro.** **Presione VCR/TV** (VCR desplegara "Multi Funtion Display") → Seleccione canales de TV (Mientras permanece grabando)
 - **Seleccione canales con VCR** **Presione VCR/TV** (Activaran luces en el control de multifunciones) → Seleccione canales con 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

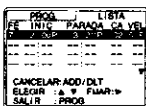
Ejemplo

Fecha de hoy — 7 — 8-9-31-1-2-6

▲/▼ Orden para elegir DIARIO

SEMAMANAL (SAB) SEMANAL (LUN) SEMANAL (DOM)

- 2) **Para ajustar los ítems que quedan, 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.

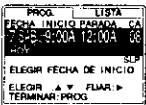
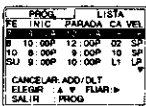


Presione nuevamente PROG para salir.

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

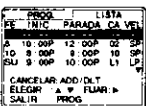
REVISION, REEMPLAZO O CANCELACION DE PROGRAMACION (Cuando la grabacion no esta en progreso)

- 1) **Presione PROG.**
 - 2) **Presione ◀ ►** para seleccionar la linea.
- Presione ▲▼ para seleccionar programa deseado.**
- 3 **Para reemplazar programa...**
 - 1) **Presione ►** para desplegar menu.
 - 2) Repita paso 2 (p. 5) para introducir el nuevo programa.



Para cancelar programas...

Presione ADD/DLT



- 4 **Presione PROG** Para terminar programacion.

CANCELAR EN EL TIEMPO DE GRABACION

(Cuando la grabacion esta en progreso)

Presione POWER y entonces **STOP** durante 10 seg. Para cancelar grabacion. El indicador de tiempo despliega señal en pantalla.

Spanish Quick Use Guide/ Guía para rápida consulta

ANTES DE SOLICITAR SOPORTE TECNICO

Verifique los siguientes puntos una y otra vez si esta teniendo problemas con su VCR.
(BO : Haga referencia en "Basic Operation" contenido del libro de instrucciones)
(AO : Haga referencia en "Advanced Operation" contenido del libro de instrucciones)

ALIMENTACION DE AC	CORRECCION
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 alimentación de poder de AC este activada o activa.
GRABACION Y REPRODUCCION (REC / PLAY)	CORRECCION
Programas de TV no pueden ser grabados...	<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) esten correctamente seleccionados. Vea "Channels" (AO p. 12). • Asegúrese que la cejilla en el cassette de grabación este intacta (BO p.3).
Grabación con temporizador no se puede efectuar...	<ul style="list-style-type: none"> • Verifique que la configuración de tiempo este en el día y hora actual. • Asegúrese que el Cable Digital/DSS (si es usado) esta encendido y sintonizado en el canal que se desea grabar. • Seleccione los tiempos de inicio y paro de grabación correctamente. (BO p. 6) • Asegúrese de presionar el botón "POWER" de apagado de la VCR (BO p. 6) • Tiempos de grabación pudieran no efectuarse o no completarse si ocurren interrupciones en la alimentación de poder de AC, antes o durante el tiempo de grabación y hasta después de que la alimentación sea reestablecida.
No hay imagen de reproducción o en la imagen existe ruido o líneas...	<ul style="list-style-type: none"> • Seleccione canal 3 o 4 en la TV e igual canal en la VCR (BO p. 4) o seleccione línea "LINE". • Coloque el selector VCR/TV a "VCR". • Ajuste presionando "TRACKING" en el control remoto en una u otra dirección. (BO p. 3) • Intente limpiando la cabeza de la unidad. (BO p. 3)
Reproducción con afectaciones especiales. la imagen posiblemente contendrá distorsiones cuando se use TV's con control automático sostenido...	<ul style="list-style-type: none"> • Coloque la TV de control automático sostenido a control Manual y ajústela.
Perdida del control en la VCR...	<ul style="list-style-type: none"> • Verifique que la VCR este encendida. • Revise las baterías del control remoto. • Asegúrese que el candado de la VCR este apagado. (AO p. 10) • Verifique que el control remoto esta en el modo apropiado. (AO p. 2) • Asegúrese que grabaciones con temporizador no estan en progreso.
CONTROL REMOTO	CORRECCION
Control remoto no puede operar la VCR...	<ul style="list-style-type: none"> • Asegúrese que la VCR este encendida. • Verifique que el control remoto este en el modo VCR. • Dirija el control remoto directamente al sensor receptor de la VCR. (BO p. 7) • Evite que algún objeto se interponga en el camino (control remoto y sensor de la VCR). • Cheque las baterías del control remoto. (BO p. 3) • Asegúrese que el candado de la VCR este Apagado. (AO p. 10) • Exponer el sensor del control remoto a Fluorescencia o luz solar puede causar interferencia en la señal.
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)
MISCELANEOS	CORRECCION
Canales de TV no pueden ser vistos...	<ul style="list-style-type: none"> • Asegúrese que la TV este encendida. • Asegúrese que la TV este colocada en la salida de la VCR (VCR Out). • Verifique conexiones entre VCR, cable o antena y TV. • Coloque el selector VCR/TV a "TV". (BO p. 5) • Asegúrese que la apropiada señal de alimentación fue seleccionada.
El cassette de video no puede ser introducido o insertado...	<ul style="list-style-type: none"> • Inserte el cassette con el lado de la ventana hacia arriba y la cejilla de grabación frente a usted. • Verifique si la cinta esta lista dentro de la unidad.
El cassette de video no puede ser removido...	<ul style="list-style-type: none"> • Inserte o conecta completamente el Cordon de poder de AC a la toma de pared.
El cassette de video es expulsado al inicio de grabaciones y/o cuando apagas la unidad y tienes programadas grabaciones con temporizador...	<ul style="list-style-type: none"> • Asegúrese que la cejilla de grabación del cassette este intacta. (BO p. 3)
Si en el modo de parar (stop mode) el motor (CILINDRO) continua en rotación...	<ul style="list-style-type: none"> • Para permitir rapido mecanismo de reproducción, el cilindro rotará aproximadamente 3 min. Esta reducción responde al tiempo desde el paro hasta el modo de reproducción (play mode) y de este hasta el modo de atrazo de cinta de cassette (rewind search mode).

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

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 Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair or replace this product with new or refurbished parts or equivalent product, 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):

PARTS – ONE (1) YEAR
LABOR – NINETY (90) DAYS

Batteries – Non-rechargeable batteries are not warranted.

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

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

**Panasonic Services Company
Customer Servicer Suite B
4900 George McVay Drive.
McAllen, TX 78503**

In Puerto Rico contact the Panasonic Sales Company.

Tel. (787)750-4300
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.

Also, the purchaser will be responsible for shipping the unit to the above address. This warranty is extended only to the original purchaser.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use. 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, improper insertion of consumables, 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 PANASONIC VHS VCR authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

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

If you have a problem with this product that is not handled to your satisfaction, then write to the Consumer Affairs Department at the Company address indicated on this page.

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.

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

Accessory Purchases:

1-800-332-5368 (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)

Panasonic®



Omnivision MHS

Video Cassette Recorder Operating Instructions (Advanced Operations)

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

Models No. PV-V4022/PV-V4522



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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.

LSQF0507

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

Multi-Brand Control Feature

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 Setup 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, SAP/Hi-Fi (PV-V4522 only), 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	

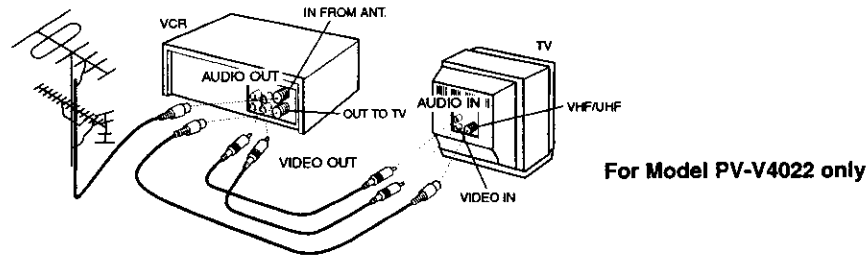
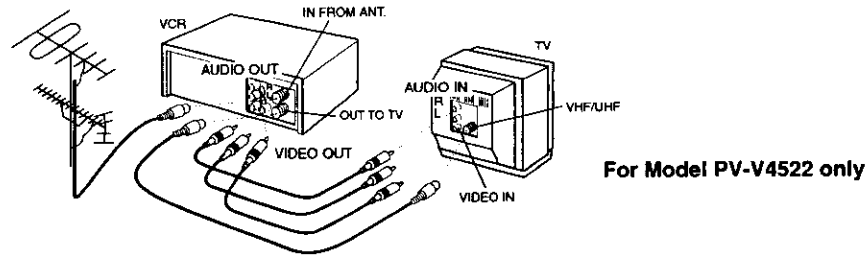
Important Notes

- 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 brands require you to turn on the power manually.

Advanced Connections

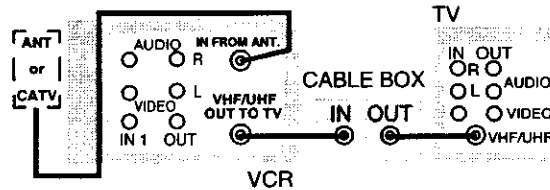
Audio/Video connection

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



- 1 Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.
- 2 PV-V4522 : Connect VCR's L/R AUDIO OUT jacks to the TV's L/R AUDIO IN jacks.
PV-V4022 : 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)



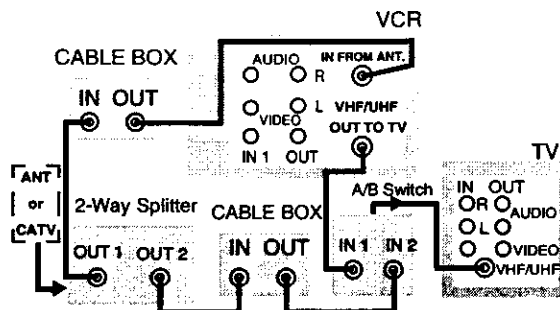
You Can

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

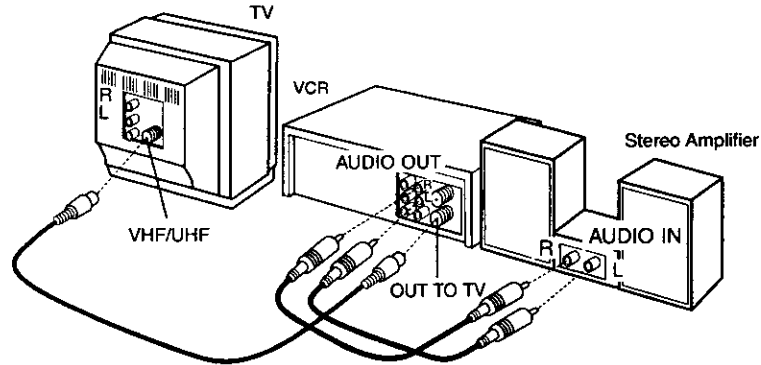
MTS Broadcast

For Model PV-V4522 only

Connection

Make the Audio/Video Connection as shown on page 3.

- 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.

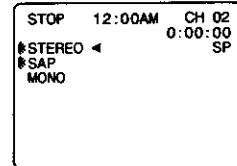
The signal being received is indicated with a "k" mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received,

→ press DISPLAY*.

MTS Stereo and SAP broadcast

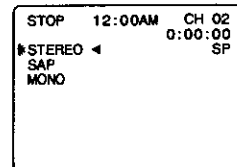
Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select STEREO or SAP audio mode.



MTS Stereo broadcast

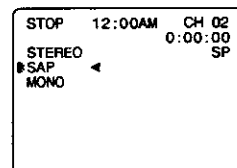
Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

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



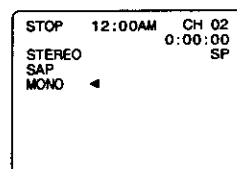
SAP broadcast

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



MONO broadcast

Normal monaural sound broadcast.



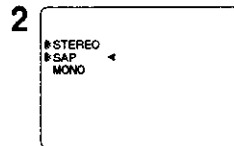
Equipped with **dbx**[®]-TV Noise Reduction for true MTS reproduction. **dbx**[®]-TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**[®] is a registered trademark, and is licensed by **dbx**[®] Technology Licensing.

VHS Hi-Fi Stereo System

For Model PV-V4522 only

Audio Mode for Recording

1 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" on page 4.

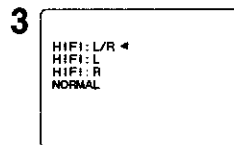
• Arrow indicates selection.

3 Do a recording.
See p. 5 of "Basic Operations" Instruction book.

Audio Mode for Playback

1 Start playback.
See p. 5 of "Basic Operations" Instruction book.

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



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.

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 page 4.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

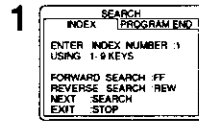
***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

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.

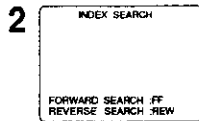
Index Search



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

- To calculate number, see below.

Press **FF** or **REW** on the remote to start search.



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

- 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.

Program End Search

Locates end point of recording for continuity.

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



Press **FF** on the remote to start **PROGRAM END SEARCH**.

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

Examples of Program End Search.

Fig. 1

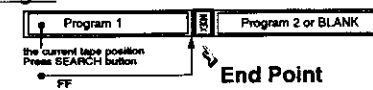


Fig. 2

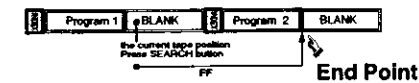
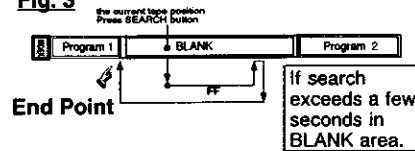


Fig. 3



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

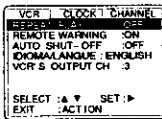
- If Program End Search is started very close to an index mark, that mark may be skipped over.
- To cancel, press **PLAY** or **STOP**.

Tape Operation

Repeat Play

Set to playback a recording over and over.

1 Press **ACTION** to display menu.



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

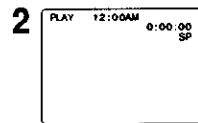
ON : Play repeats at tape end or if unrecorded portion over 30 sec. is detected.

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

Zero Search

To quickly return to a specified tape location.

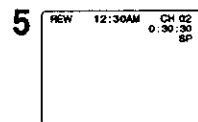
1 Press **DISPLAY** during play to display Counter.



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

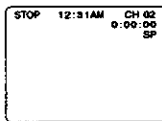
3 Continue to record, playback, etc.

4 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.

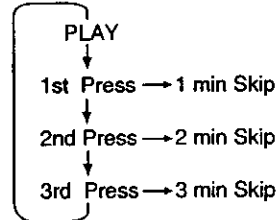


Commercial Skip

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.

Before Requesting Service

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) • 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"> • 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...	<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.

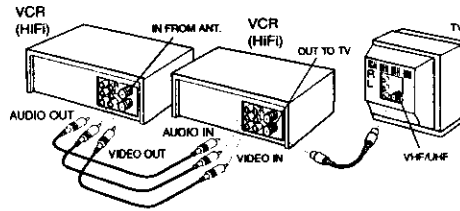
If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262).

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

Copying Your Tapes (Dubbing)

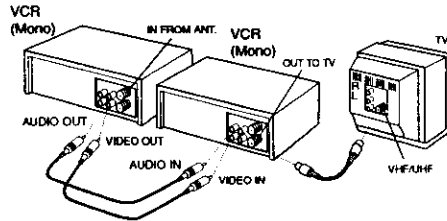
Connection

(Rear connection shown.)



(Front Audio L/R Video IN jacks are also provided)

For Model PV-V4522 only



(Front Audio/Video IN jacks are also provided)

For Model PV-V4022 only

- 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 PV-V4522 : Connect AUDIO L/R OUT jacks on Playing VCR to AUDIO L/R IN jacks on Recording VCR.
PV-V4022 : 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

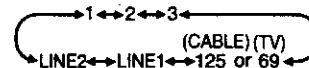
- | | |
|--|---|
| <ol style="list-style-type: none"> 1 Insert pre-recorded tape. | <ol style="list-style-type: none"> Insert blank tape with record tab. |
| <ol style="list-style-type: none"> 2 _____ | <p>Press INPUT* to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video Input (Front). (See "Selecting the Input Mode" below.)</p> |
| <ol style="list-style-type: none"> 3 Press PLAY, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode. | <ol style="list-style-type: none"> 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"> 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"> 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.

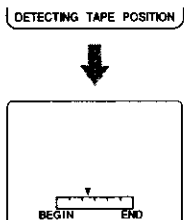
Special VCR Features

Special VCR Features • Copy Your Tapes (Dubbing) • Before Requesting Service

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.



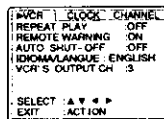
- "DETECTING TAPE POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct indication to appear.
- The present tape position indication is displayed.

- 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.



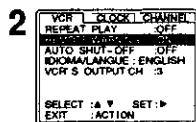
- 2 Press **◀▶** to select and display CHANNEL. Press **▲▼** to select WEAK SIGNAL DISPLAY, and press **▶** to set ON or OFF.

- ON: Picture is displayed despite signal condition an may have poor quality.
- OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

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.



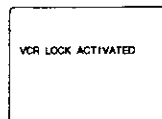
Press **▲▼** to select **REMOTE WARNING** and press **▶** to set ON or OFF.

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

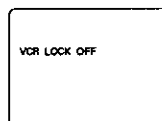
- 3 Press **ACTION** to return to normal screen.

VCR Lock Feature

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



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



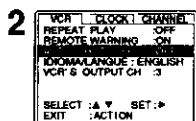
To turn off, repeat above.

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

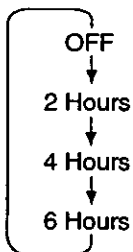
Auto Shut-Off Feature

The power shuts off at a preset time.

- 1 Press **ACTION** to display menu.



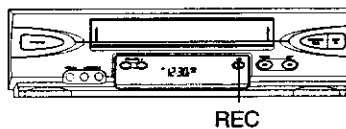
Press **▲▼** to select **AUTO SHUT-OFF**. Press **▶** repeatedly to change shutoff time as shown below.



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

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

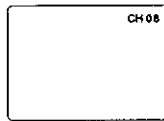
***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



On-Screen Displays (OSD)

On-Screen Displays (OSD)

Function & Channel Displays



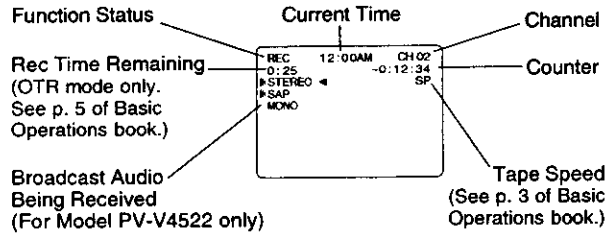
When a function button is pressed, e.g. PLAY, or you change channels, a 5 second display appears.

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*.



Warning and Instruction Displays

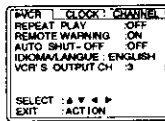
These displays will alert you to a missed operation or provide further instructions.

OSD	Caution	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set...	See page 6 of Basic Operations book
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 END :PLAY	If head cleaning becomes necessary while playing back a tape...	See page 3 of Basic Operations book
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 USE VCR : VCR KEY	If you press an invalid key on the remote while in TV mode...	See pages 2, 10

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

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

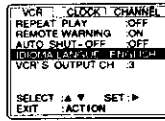
• Reset Language, Channels, Clock, VCR's Output Channel • DST • On-Screen Displays (OSD)



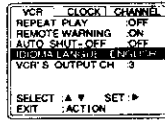
Press **ACTION** to display **MENU**.

Language

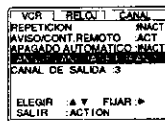
1) Press **▲▼** to select language item.



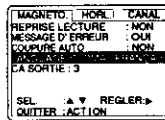
2) Press **▶** repeatedly.



For English



For Spanish

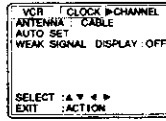


For French

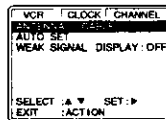
3) Press **ACTION** to exit.

Channels

1) Press **◀▶** to select **CHANNEL**.

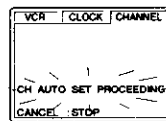


2) Press **▲▼** to select "ANTENNA," then press **▶** to set your antenna system ("TV" or "CABLE.")



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

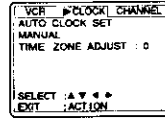
- If you use Cable Box, set it to the PBS channel in your time zone.



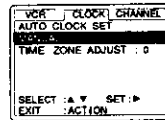
- After Channel Auto Set is finished, Auto Clock Set will be performed.

Clock

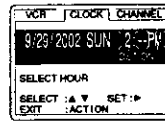
1) Press **◀▶** to select **CLOCK**.



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.)



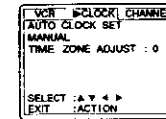
3) Press **▲▼** and **◀▶** to select and set the date, time, and DST (Daylight Saving Time).

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

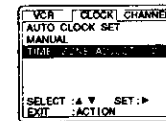
Time Zone Adjust

(Only when Auto Clock is set.)

1) Press **◀▶** to select **CLOCK**.



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



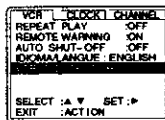
and press **▶** to subtract or add hour(s) as necessary.

3) Press **ACTION**.

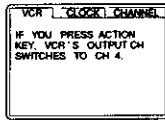
- "TIME ZONE ADJUST" returns to "0" if clock is set manually.

VCR's Output Channel

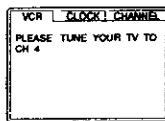
1) Press **▲▼** to select "VCR'S OUTPUT CH."



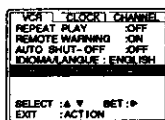
2) Press **▶**.



3) Press **ACTION**.



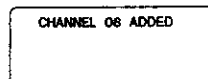
After 3 seconds



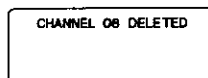
- To Make Corrections, repeat steps 1) ~ 3).

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.