**Power Indicator** 

Hi-Fi Indicator

**AC Power Plug** 

While plugged into an AC

**Video Output** 

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 uilding, 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. Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park. Carolina, Puerto Rico 00985

Printed in Indonesia LSQT0578F

## Spanish Quick Use Guide/ Guía para rápida consulta

### 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. PRECAUCIÓN—

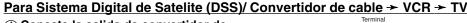
Al usar cables coaxiales RF del tipo "tuerca", apriételos solamente con los dedos. Un apriete excesivo puede dañar los terminales.

## CONEXIONES

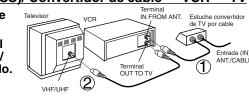
### Para Ant/Cable → VCR → TV (1) Conecte el cable de la antena al terminal IN FROM ANT del VCR.

(2) Conecte el terminal OUT TO TV del

VCR a la entrada de la antena VHF/ UHF del TV con el cable RF incuido.



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



4 SELECCION DE CONEXION en el

menu desplegado en pantalla.

Presione **▲▼** para obtener las

Presione **▲▼** para obtener la

v presione ▶ para seleccionar.

Presione ▶ para seleccion.

SELECT CONNECTION
CABLE/DSS BOX WCR TV

BLE/DSS BOX OUTPUT

Si aparece en la pantalla "FIJACION

INCOMPLETO", Ajuste el reloj como se

VCR C/A CLOCK CH

AUTO CLOCK SET IS

AUTOMATICA DEL RELOJ ES

conexiones "VCR ► TV", o

cable→VCR→TV.)

Si la conexion es ANT/ CABLE→VCR→TV.)

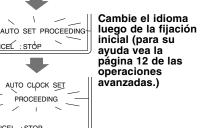
"VCR ▶ CABLE/DSS ▶ TV", y presione

conexion "CABLE/DSS ▶ VCR ▶ TV"

## CONFIGURACIÓN INICIAL

- 1 Encienda el TV y cambie al canal 3.
- 2 Enchufe el cable de CA. La videograbadora se encenderá e iniciará las filaciones de los canales y
- Si no aparece la pantalla de abajo, compruebe la conexión del VCR-TV y si el canal del TV está a 3. intennte 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 (Si la conexion es DSS/Convertidor de avanzadas. Enchufe el cable de CA. □ Cambie el idioma ch auto set proceeding luego de la fijación inicial (para su CANCEL : STOP



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

3 Las fijaciones se realizan automáticamente. Cuando termina las fijaciones, aparecerá la siguiente pantalla. describe a continuación.



PLEASE SET CLOCK BY PRESSING ACTION KEY

### Ajuste Manual del Reloj

Si la colocacion de tiempo fue incompleta.

**a** Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.



VCR C/A RELOJ CANAL



C Presione dos veces la tecla ACTION para poner el RELOJ en marcha y pase al paso 4 anterior.

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

### PROGRAMACIÓN FÁCIL PARA OPERACIONES BÁSICAS PARA LA GRABACIÓN CON **TEMPORIZADOR**

ELEGIR :▲ ▼ ◀ ►

Spanish Quick Use Guide/ Guía para rápida consulta

- -- 2) Presione ▼ para
- grabación, presione ▲▼ para seleccionar: 1-31 = una vez, o POGLISTA DIARIO = a la misma o SEMANA = a la misma hora cada

### Orden para elegir

Ejemplo Fecha de hoy -Si la imágen se interrumpe con la velocidad de

▲/▼ Orden para elegir

de INICIO/PARADA, CANAL, o cassette (SP, LP, SLP). el programa.

Presione ▲▼ para seleccionar un número que no está usando para para ajustar. Luego repita el paso 2.



⚠ Presione POWER off para ajustar el temporizador.

# REVISIÓN. REEMPLAZO O

La alimentación del VCR se activa.

1) Presione PROG/VCR+. 2) Presione **◄** ▶ para seleccionar la linea.



C Para reemplazar programa...

Para cancelar programas.. Presione ADD/DLT VCR Plus+ PROG. LISTA

d Presione PROG/VCR+ Para terminar programacion

### 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

## Spanish Quick Use Guide/ Guía para rápida consulta

## ANTES DE SOLICITAR AL SERVICIO TÉCNICO

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

| ALIMENTACIÓN DE AC   | CORRECCIÓN  |  |  |
|--|---|--|--|
| La unidad no enciende  | Revise que el cordon 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 alimantación está activada.  |  |  |
| GRABACIÓN Y REPRODUCCIÓN<br>(REC / PLAY)   | CORRECCIÓN  |  |  |
| No se pueden grabar programas de TV  | 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 antenna (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> <li>Compruebe que el reloj ha sido ajustado a la hora y fecha actual.</li> <li>Asegúrese de que la caja de Cable/DSS (si se utiliza) se deja encendido y está sintonizado al canal a grabar.</li> <li>Ajuste las horas de comienzo y deteción de grabación correctamente. (BO p. 6)</li> <li>Asegúrese de que ha apagado el VCR antes de la grabación. (BO p. 6)</li> <li>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.</li> </ul> |  |  |
| No hay imagen de reproducción, o la imagen de reproducción tiene ruidos o contiene rayas   | Seleccióne 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<br>especiales, la imagen puede contener<br>algunos saltos verticales cuando se<br>utiliza un televisor con Control de<br>Bloqueo Vertical Automático | Ponga el Control de Bloqueo Vertical del televisor en<br>"MANUAL" y luego realice el ajuste.  |  |  |
| No se puede controlar el VCR   | 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  | Asegúrese de que el aparato está encendido.     Asegúrese de que el control remoto está en le modo de VCR.     Apunte el control remoto derectamente 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)  |  |  |

### Revise las pilas del control remoto (BO p. 3 Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10) Si ei sensor remoto recive directamente la lus del fluorescente o lu solar puede causar interferencia con la señal del control remoto. Verifique las conexiones entre VCR, cable o antena v TV Los botones "ACTION" y/o "PROG" Presione el botón VCR para el modo de "VCR". (AO p. 2) Revise las baterias del control remoto. (BO p. 3) Varios Asegúrese que la TV este encendida. No se pueden ver los programas en Asegúrese que la TV esté conectado a la salida de la VCR (VCR Out). el televisor Verifique conexiones entre VCR,cable o antena y TV. Ajuste el selector VCR/TV a "TV". (BO p. 5)

|   | Asegúrese que la apropiada señal fue seleccionada.   |
|---|--|
| No se puede introducir la cassette de vídeo   | <ul> <li>Inserte el cassette con el lado de la ventana hacia arriba y la<br/>pestaña de grabación frente a usted.</li> <li>Verifique que no tenga ningún cassette dentro del aparato.</li> </ul> |
| No se puede extraer la cassette de vídeo  | Inserte o conecte completamente el cable de alimentación de<br>AC a la toma de pared.  |
| La cassette de vídeo es expulsada al dar comienzo a una grabación o al desactivar la alimentación para la grabación con teporizador | Asegúrese que la pestaña de grabación del cassette este<br>intacta. (BO p. 3)  |

Para activar rápidamente el mecanismo de reproducción, el En el modo de Detención, el motor cilindro sique rotando durannte 3 minutos. Esto disminuve el (CILINDRO) sigue girando... tiempo de respuesta desde la parada hasta la reroducción o hasta la el modo de búsqueda en rebobinado

> 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. Ilame sin costo al 1-800-211-PANA(7262) o envie un correo a : consumerproducts@panasonic.com

## **Limited Warranty**

PANASONIC CONSUMER ELECTRONICS COMPANY. **DIVISION OF MATSUSHITA ELECTRIC** CORPORATION OF AMERICA Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, **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

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

Panasonic Services Company Customer Servicenter Suite B

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

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

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

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 onsumer Affairs Department at the addresses listed for the warrantor.

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

## **Customer Services Directory**

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

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

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)

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

As of April 2002

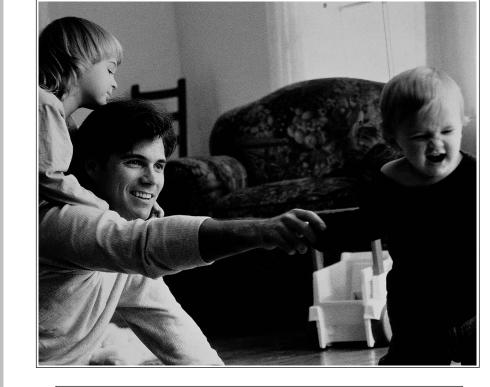
**Panasonic** 



Video Cassette Recorder **Operating Instructions** 

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

Model No. PV-V4612/PV-V4612S



## **Table of Contents**

Important Safeguards and Precautions Before Using Connections and Initial Setup (Ready to Play)... Playback / Record on a Tape ... Timer Recording **Location of Controls** Spanish (Español) Quick Use Guide. Limited Warranty / Customer Services Directory.... 12



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



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.)

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

VHF/UHF Antenna

**Output Terminal** 

**Audio Output** 

Connector (L/R)

CABLE/DSS BOX VCR TV OPERACIONES BÁSICAS PARA Confirme el canal de salida de su A GRABACIÓN

convertidor de cable o receptor de DSS presione **▲▼** que permitiran Inserte el cassette con lengüeta de selecionar el mismo canal de salida protección de grabación (p. 3). que su convertidor o DSS.

> En la pantalla Multi Función se ilumina 2 Presione CH ▲▼, o las teclas de

LA REPRODUCCIÓN

• la alimentación del VCR se activa.

**2** Presione PLAY para reproducir el

• Si el cassette no tiene lengüeta de

reproducción automáticamente.

Presione PLAY para liberar.

cambia la velocidad como sique:

] aprox. 9X ↔ aprox. 7X

[SLP] aprox. 21X ↔ aprox. 9X

SPl aprox. 7X ↔ aprox. 3X

Presione PLAY para liberar.

Presione PLAY para liberar.

**3** Presione STOP para detener el

■ Presione REW o FF en el modo de

Fija (Congelada).

en cámara lenta.

del cassette.

el cassette.

prevención de grabación (p. 3), se inicia la

Detalles especiales durante la grabación

■ Presione FF o REW para búsqueda de

Luego de que la búsqueda se ha iniciado,

21x. 9x o 7x. cambie la velocidad a 9x. 7x o 3x.

de Imagen fija para imágenes cuadro a

el modo de imagen fija para imágenes

parada para rebobinado/avance rápido

STOP/EJECT en el VCR para expulsar

■ Presione EJECT en el control remoto, o

cuadro. Presione PLAY para liberar.

■ Mantenga pulsado PAUSE/SLOW en

■ Presione PAUSE/SLOW para imagen

■ Presione PAUSE/SLOW en el modo

escenas hacia delante/ hacia atrás.

cada vez que presione FF o REW se

Función se ilumina "VCR".

En la Pantalla de Visualización Multi

Inserte una cassette,

**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.

Presione RFC renetidamente para ajustar la duración de la grabación como sigue: como sique: 30 min. → 1 hr → 1:30hr →  $2:00 \rightarrow 3:00 \rightarrow 4:00 \rightarrow Salida$ . La VCR se apagara automáticamente en en intervalo seleccionado de tiempo. Ver un canal y grabar otro.

Presione VCŔ/ŤV. (La indicación VCR se apagara 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 vizualización multi-función) Función) ➤ Seleccione canales en su VCR.

1) Presione PROG/VCR+

visualizar la pantalla de Programación.

2 1) Para ajustar la FECHA de hora de lunes a viernes,

para aiustar.

semana y **presione** ▶

2) Para los ajustes siguientes, presione ▲▼ para seleccionar v **presione** ▶ para ajustar los tiempos entrada de LINEA, v velocidad del Presione PROG/VCR+ para finalizar

ingresar mas programas y **presione** ▶

**TISTA** Presione nuevamente PROG/VCR+ para salir.

(Se ilumina "TIMER" en el panel delantero)

**BORRADO DE PROGRAMACIONES** (no se puede efectuar durante la grabación)

h FE INIC PARADA CA VELI Presione ▲▼ para oba 12:00A 08 SF seleccionar programa 0 8:00P 9:00P 10 SP deseado.

PROG. LISTA 1) Presione ▶ para

desplegar menu. 2) Repita paso 2 (ver arriba) para introducir

ELEGIR : ▲ ▼ FIJAR: ► TERMINAR: PROG el nuevo programa.

NCELAR: ADD/DLT .EGIR : ▲ ▼ FIJAR: ►

TIMER se apagará en la Pantalla de Multi

- 11 -

- 12 -

POWER SERVICE GROUN ELECTRODE SYSTEM

the unit or in this manual. If necessary, have oducts Dealer verify the power source in your POLARIZED OR GROUNDING PLUG

perate only from a power source indicated on

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 wal outlet. Do not defeat the safety feature by tampering

POWER SOURCE CAUTION

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 ampering with the plug. POWER CORD Make sure power cords are routed so that they

are not likely to have anything rest on them, ro 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. Fraved cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be eplaced by a qualified service technician.

Verloaded outlets and extension cords are fire hazards and should be avoided

DO NOT BLOCK VENTILATION HOLES generated during operation. If they are blocked neat build-up inside the unit can cause failures that may result in a fire hazard or heat damag 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.

D. Avoid built-in installation, such as a book

case or rack, unless proper ventilation is AVOID EXTREMELY HOT LOCATIONS OF

Do not place the unit over or near any kind of neater 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 ondense in the unit and on the tane

TO AVOID PERSONAL INJURY Do not place unsecured equipment on a sloping

• Do not place this unit on an support that is not firm, level and adequately strong. The unit could fall causing serio njury to a child or adult and damage to the unit.

 An appliance and cart combination should be and uneven surfaces may cause the appliance Carefully follow all operating instructions and

use the manufacturer's recomi accessories when operating this unit or connecting it to any other equipment.

# **Safety Precautions**

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

Model No.

Serial No

☐ Remote Control

LSSQ0313 (PV-V4612) LSSQ0343 (PV-V4612S) © 0 0 **∞ ∞ ∞** 

During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time nnect 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 NO

IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR

STRONG IMPACT, unplug the unit and have it inspected by

first to the INSTALLATION section of these safeguards.

1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR

DURING AN ELECTRICAL STORM

so as to provide some protection against built up static

lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit,

KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER

connection to grounding electrodes and requirements for the

utside antenna system should be located well away

rom power lines, electric light or power circuits and where i

will never come into contact with these power sources if it

ection 810 of the National NEC - NATIONAL CODE

charges and voltage surges.

lectrical Code, ANSI/NFP

70 (in Canada, part 1 of the

spect to proper grounding

provides information with

of the mast and supporting

structure arounding of the

LINES OR CIRCUITS

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 ectrical 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 nagnets away from electronic equipment.

CLEANING THE UNIT

Unplug the unit, Then, use a clean, dry, chemically eated 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 ubstance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas nay adversely affect internal parts.

open or remove covers, or make any adjust

2 IF REPLACEMENT PARTS ARE REQUIRED Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety naracteristics as the original parts. The use of unauthorized abstitutes may result in fire, electric shock, or other

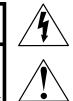
Warning: To prevent fire or shock hazard, do not expose this equipment to rain or CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

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.

user's authority to operate.





FCC Warning: Any unauthorized changes or modifications to this equipment would void the

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

### Congratulations

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

☐ RF Coaxial V.JAS0196

☐ Batteries 2 "AA

000 **8000** 

To order accessories, call toll free

1-800-332-5368. **Loading the Batteries** 

☐ Battery replacement caution

Do not mix old and new batteries.

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

DO NOT SERVICE THIS PRODUCT YOURSELF f, after carefully following the detailed operating instructio this Video product does not operate properly, do not attempt

described in the manual. Unplug the unit and contact a

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY

### After any service or repairs to the unit, request the service technicián to conduct a thorough safety check as described in the manufacture's service literature to ensure that the

video unit is in safe operating condition. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas

## Record/Playback Time

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

Old or damaged tapes may clog heads.

**Video Head Clog Sensor** Screen-right appears during play if clogging is detected.

 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.

### Specifications

Power Source: 120 V AC. 60 Hz Power Consumption: Power On Approx. 23 W Power Off

Video Recording scanning system Audio Track: 1 track (Normal)

Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69 CABLE Channels: Midband A ~ I (14 ~ 22) Superband J ~ W (23 ~ 36) Hyperband AA ~ EEE

Lowband A-5 ~ A-1 (95 ~ 99 Special CABLE channel 5A

5 °C ~ 40 °C (41 °F ~ 104 °F) Operating Humidity: 10 % ~ 75 % Weight: 2.7 kg (6.0 lbs)

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

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

## **Prevent Accidental Tape Erasure**

Do not mix alkaline with manganese batteries.

Break off the tab to To record again prevent recording. Cover the hole with cellophane

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

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

## 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.

Cable accessory.

Cable accessory

Initial Setup (Ready to Play)

For ANT./Cable → VCR → TV 1) Connect cable from Antenna/Cable to VCR's IN FROM ANT. iack. 2 Connect VCR's OUT TO TV lack to TV's ANT. IN jack with included RF For DSS/Cable Box → VCR → TV

1) Connect your cable box's OUT jack to the VCR's IN FROM ANT. jack with 2 Connect VCR's OUT TO TV jack to TV's ANT. IN lack with included RF

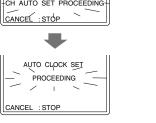
Over tightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

Turn TV on and tune to channel 3 4 SELECT CONNECTION screen is **2** Plug VCR Power Cord into AC wall (If ANT./Cable → VCR → TV connection,) outlet. VCR comes on and auto press ▲▼\* to select "VCR ▶ TV". or channel and clock set starts.

"VCR ▶ CABLE/DSS BOX ▶ TV". and If screen below does not appear, check press ▶ to set. 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).

Plugging the AC Power Plug into an AC outlet CH AUTO SET PROCEEDING-CANCEL : STOP



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 DSS receiver, it must be turned off.

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



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

CABLE/DSS BOX OUTPUT

VCR►TV

CABLE/DSS BOX▶VCR▶TV

VCR▶CABLE/DSS BOX▶TV

VCR C/A CLOCK CH AUTO CLOCK SET IS INCOMPLETE

### Manual Clock Set If Auto Clock Set was incomplete

a Press ACTION on remote to display CLOCK screen.



**D**Press ▲ ▼ to select the month and ▶ to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time). VCR C/A CLOCK CH



C Press ACTION to start clock, and go to step 4 above.

## Playback / Record on a Tape

### Record on a Tape

Insert a tape with a record tab (p. 3).

Loose or peeling labels

• If tape has no rec. tab (p. 3), auto play begins. **Special Features During Play** 

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.  $21X \leftrightarrow Approx. 9X$ 

: Approx. 9X ↔ Approx. 7X : Approx.  $7X \leftrightarrow Approx. 3X$ If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

### Picture interruption may occur with some TVs. FF and RFW search speed may vary

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.

• These features work best in SP or SLP mode.

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

■ Press EJECT on remote. or STOP/EJECT on VCR to eject tape. ("VCR" lights up on Multi Function Display), → select channels on VCR.

 Watching one channel and recording another is not possible when using Cable **Box or DSS Receiver** 

to protect the tape and the video heads.

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

Fast Forward ■ Play Auto Eject

Play → Tape end → Rewind → Tape ejects if there is no record tab

press the VCR button on the remote and try the button again.

## **Timer Recording**

1) Press PROG/VCR+\* button.

2 VCR Plust PROG. LIST 1) Set record DATE,

 $1\sim31=$  one time or DAILY= MON~ FRI or WEEKLY= same time each week and **press**  $\triangleright$ . 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).

Then repeat step 2. Or. press PROG/VCR+ button to exit.

(Recording is not in progress)

2) Press ◀▶ to select LIST

VCR Plus+ PROG. LIST DT START STOP CH SPD 7 9:000A 12:000A 08 SP • 9:000A 12:000A 08 SP • 9:000A 12:000A 08 SP • 9:000A 12:000A 08 SP

C To Replace program...

or



## (Recording is in progress)



(above) to set new programs

□ST Press ADD/DLT

**VOLUME UP/DOWN** (Adjusts TV volume)

**Light Tower Universal Remote Control** 

LIGHT button: When pressed, available buttons light and selected mode button (TV, VCR, or DSS CABLE) flashes 5 seconds. If no button is pressed, light goes out in 5 seconds. Also, hold down a button to confirm the selected mode (mode button flashes) in the dark.

(1) (2) (3)

4 5 6

7 8 9

(100) (0) (

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

## Front View of the VCR

6 SEARCH Connector **SEARCH** CHANNEL UP/DOWN RECORD Remote TRACKING/ V-LOCK

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

VCR (mode) (Enables VCR functions) (For TV or VCR mode) PLAY (Plays a tape)/ FAST FORWARD/SEARCH (Fast forwards tape/ forward visual search) REWIND/SEARCH

(Rewinds tape/ reverse visual

A▼

Remote keys

operation keys when menus

PLAY, STOP, REW, and FI

STOP (Stops tape)

function as ▲▼◀▶

are displayed.

(Displays menu)

PAUSE/SLOW -

SAP/Hi-Fi

**COUNTER RESET-**

(Resets counter to zero)

or slow motion picture)

(Displays still, frame by frame

(Selects audio mode for play

ACTION-

**Location of Controls** 

**Remote Control Buttons** 

EJECT -

POWER -

(Ejects tape)

(Turns VCR off/on)

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

## Review, Replace, or Clear Program

a 1) Press PROG/VCR+ button

Notes

• After 5 minutes in Pause mode, VCR stops

This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the

**Auto Operation Functions** 

Auto Plav

\*Important: If a remote control button does not work when pressed

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

Press VCR/TV

(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 on TV (recording continues). Select channels on VCR (in STOP or PAUSE mode)

Rewind or Fast Forward tape.

WHS mark. Only tapes tested and inspected for use in 2, 4, 6, and 8

hour machines are recommended.

(Repeat Play must be off)

- 5 -

Timer Recording

2) Press ▼ to display program screen.

press ▲▼ to select:

**→**8−9······ 31− 1 − 2····· 6− SELECT▲ / ▼ Selection Order DAILY

Press PROG/VCR+ button to end programming

VCR Plust | PROG. LIST | TO Enter More Programs 2:00P 3:20P 02 SLP Press ▲▼ to select and **press** ▶ to set an unused program.

**Cancel a Timer Recording** 

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

Function Display.)

VCR Plus+ PROG. LIST 1) Press ► to display SUN 9:00A 12:00A 08 2) Repeat Step 2

**C** Press PROG/VCR+ button to end the

programming.

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

• If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must

Important notes when using DSS receiver

on-screen, please re-enter the timer programs

• 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.

- 7 -

Cassette Compartment STOP/EJECT FORWARD

(Illuminates the remote)

(Enables TV functions)

(For LINE or channel

(Selects channel directly

(Displays VCR status)

(Locates tape position

(Starts Movie Advance)

(Changes tape speed)

**ZERO SEARCH** 

Zero Search

-RECORD

COMMERCIAL ADVANCE/

(Starts Commercial Advance/

(Records a program, etc.)

(Selects channel/ reduce:

picture noise during Play and

CHANNEL UP/DOWN

TRACKING/ V-LOCK

- TAPE POSITION

-SEARCH/ENTER

**MOVIE ADVANCÉ** 

(Adds or deletes a channel

- PROGRAM/VCR+

NUMBER Kevs

-ADD/DELETE

- DISPLAY

-SPEED

(Enables DSS/CABLE functions

(Displays Timer Program screer

DSS/CABLE mode

**Head Cleaning** 

o remove screen, press

PI AY

• Use "dry" type head (Part No. NV-TCL30PT is recommended.)

Alcohol and various solvents could damage

Approx. 3.0 W EIA Standard NTSC color 4 rotary heads helical

Hi-Fi Audio Sound

Ultraband 65 ~ 94, 100 ~ 125

Dimensions

Features for a Quality Picture Digital Auto Picture

less noise depending on the tape condition. Digital Auto Tracking Continuously analyzes the signal and adjusts for

Automatically controls the video output signal for

optimum picture quality.

V-Lock control.

- 3 -

Manual Tracking Control

(to reduce picture noise)

Jse during Playback and Slow Motion mode to educe 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





Connecting

2 Press PLAY to play tape. OUT TO TV

**■** Forward/Reverse Scene Search

Playback a Tape

may cause tape jam.

l Insert a tape.

depending on current tape position. Still (Freeze) Picture → Press PAUSE/SLOW.

Press PLAY to release.

/CR▶CABLE/DSS BOX▶T

(If DSS/Cable Box → VCR → TV connection,) press ▲▼ to select "CABLE/DSS BOX▶ VCR►TV" and press ► to set. · The sound will be muted. • To reduce picture noise, see "Manual

Verify the output channel of your cable box or DSS receiver and press **▲▼** to select and **▶** to enter that channel number CABLE/DSS BOX▶VCR▶TV

SELECT: ▲ ▼ SET: ► EXIT : ACTION

Tape end > Rewind

## **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.)

Completely insert Power Plug into an AC outlet. No power... Set POWER button to on. Make sure power source is active. **Recording & Playback** Check connections between VCR, external antenna, and TV program cannot be recorded.. 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) Confirm that clock is set to current time and date. Timer recording cannot be Make sure Cable/DSS box (if used) is left on and tuned to performed.. 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 Select channel 3 or 4 on TV to match VCR output channel There is no playback picture, or the (3 or 4) (BO p. 4) or select LINE. playback picture is noisy or contains Set VCR/TV selector to "VCR." streaks... Adjust TRACKING control in either direction. (BO p. 3) Try Head Cleaning. (BO p. 3) Special effects playback, picture may Set TV's Vertical Hold Control to MANUAL, then adjust. contain some vertical jitter when using a TV with an Automatic Vertical Hold Control... VCR cannot be controlled.. 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 Make sure VCR power is on. VCR cannot be remote controlled... Make sure Remote is in VCR mode. Aim Remote Control directly at remote sensor on VCR 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/VCR+ buttons do Check connections between VCR, external antenna, and not respond... Press VCR button for VCR mode. (AO p. 2) Check Remote batteries. (BO p. 3) Miscellaneous Correction Make sure TV power is on. Programs cannot be viewed on TV...

Make sure TV is set to output of VCR. Check connections between VCR, external antenna, and Set VCR/TV selector to "TV." (BO p. 5) Make sure proper signal source is selected.

Insert the cassette with window side up; record tab facing Video cassette cannot be inserted Check if a tape is already in the unit. Completely insert Power Plug into an AC outlet. Video cassette cannot be removed Video cassette eiects when a Make sure cassette record tab is intact. (BO p. 3) recording is started or the power is

In Stop mode, the motor (CYLINDER) To enable Quick play mechanism, the cylinder will rotate continues to rotate. for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search

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

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

Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park,

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

turned off for timer recording...

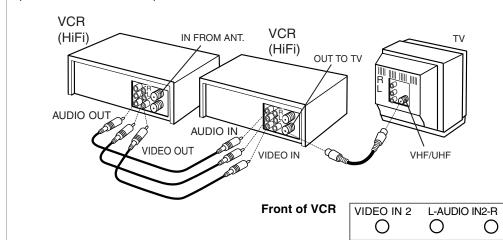
Carolina, Puerto Rico 00985

Printed in Indonesia LSQT0579B S1201-1052

## Copying Your Tapes (Dubbing)

### Connection

(Rear connection shown.)



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 L/R OUT jacks on Playing VCR to AUDIO L/R IN jacks 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

(Front Audio L/R Video IN jacks

are also provided)

Insert pre-recorded tape. Insert blank tape with record tab. 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"

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

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

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

Press STOP to stop dubbing.

**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."

 Dubbing tapes protected with Copy Guard will have poor quality results. ■ Selecting the Input Mode Method 1

Press INPUT repeatedly Channel Number ↔ LINE1 ↔ LINE2 Method 2: Press CH ▲ / ▼.

Display will change as below. **→**1**←→**2**←→**3**←** (CABLE) (TV) LINE2 → LINE1 → 125 or 69 ←

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

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

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

## Special VCR Features

### Tape Position Display Feature Weak Signal Display ON/OFF 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

Press TAPE POSITION to detect tape position. DETECTING TAPE POSITION J • "DETECTING TAPE POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct

displayed

indication to appear. • The present tape position indication is

• ON: Picture is displayed despite signal condition an may have poor quality. OFF: Screen turns solid blue when signal is weak or non-existent

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, DSS. or Cable mode.

Press ACTION to display menu.

**2** Press TAPE POSITION

to return to normal screen

7 VCR C/A CLOCK CH Press ▲▼ to select or OFF.

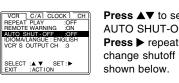
• If "OFF," remote warning will not appear if invalid key is pressed.

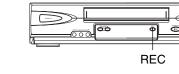
(Please ignore the NO

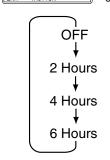
Auto Shut-Off Feature The power shuts off at a preset time.

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

1 Press ACTION to display menu.







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

## On-Screen Displays (OSD)

### On-Screen Displays (OSD)

**Function & Channel Displays** 

To display or remove

→ press DISPLAY\*

overlay at right,

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

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.

**Current Time** Rec Time Remaining\_ — Counter (OTR mode only. See p. 5 of Basic Operations book.) Tape Speed **Broadcast Audio** (See p. 3 of Basic Being Received Operations book.) These displays will alert you to a missed

**Warning and Instruction Displays** 

**VCR Status & Clock Displays** 

operation or provide further instructions. Caution Page

| PLEASE SET CLOCK BY<br>PRESSING ACTION KEY  | If you attempt to set or review a Timer Recording and the Clock is not set                      | See page 6 of<br>Basic Operations<br>book |
|---|---|---|
| FURN VCR OFF<br>FOR TIMER RECORDING   | After a Timer Program has been set  | See page 6 of<br>Basic Operations<br>book |
| CHECK CASSETTE<br>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<br>Basic Operations<br>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<br>Basic Operations<br>book |
| TO CANCEL TIMER REC<br>PRESS POWER THEN<br>STOP KEY   | If you press POWER or STOP during<br>a Timer Recording<br>(visible in VCR mode only)            | See page 6 of<br>Basic Operations<br>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<br>Basic Operations<br>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<br>TO CABLE/DSS MODE<br>USE VCR : VCR KEY                                 | If you press an invalid key on the remote while in CABLE/DSS mode                               | See pages 2, 10                           |
| REMOTE CONTROL IS SET<br>TO TV MODE<br>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

- 11 -

# **Panasonic**

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

Clock

CLOCK.

1) Press ◀ ▶ to select

VCR C/A CLOCK

MANUAL TIME ZONE ADJUST

SELECT : A ▼ ◀ ► FXIT : ACTION

2) Press ▲▼ to select

SELECT :▲ ▼ SET:►

("TIME ZONE ADJUST"

appears only when

auto clock is set.)

VCR C/A CLOCK CH

SELECT :▲ ▼ SET:► EXIT :ACTION

3) Press ▲▼ and ◀▶

the date, time, and

to select and set

DST (Daylight

Savina Time).

4) Press ACTION to

To add channel:

press ADD/DLT.

To delete channel:

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)

Saving Time, select DST:OFF.

- 12 -

DST:ON - Turns clock back one hour.

If your area does not observe Daylight

Keep these time changes in mind when

programming VCR for timer recordings.

exit this mode

start the Clock and

Add or Delete a Channel

Select channel with NUMBER keys and

CHANNEL 08 ADDED

Select channel with CH ▲/▼ or NUMBER

CHANNEL 08 DELETED

9/2002 SUN ) 2

"MANUAL" and press

select "AUTO CLOCK SET.")

. (For Auto Clock Set

Time Zone

(Only when Auto Clock

1) Press ◀ ▶ to select

VCR C/A CLOCK CH

ME ZONE ADJUST :

2) **Press ▲▼** to select

VCR C/A CLOCK CH AUTO CLOCK SET

ECT :A ▼ SET:►

hour(s) as necessary

ADJUST" returns to

"0" if clock is set

and **press** ▶ to

subtract or add

3) Press ACTION.

"TIME ZONE

TIME ZONE

ADJUST'

Adiust

CLOCK.

is set.)

PVCR C/Al CLOCK CH Press ACTION

1) Press ▲▼ to select 1) Press ◀▶ to select

to display MENU

Channels

CHANNEL

SELECT : ▲ ▼ ◀ ► EXIT : ACTION

2) Press ▲▼ to select

"ANTENNA." then

your antenna system

("TV" or "CABLE.")

press ▶ to set

CABLE/DSS BOX SET UVCR Plus+ CH SET UP

SELECT :A ▼ SET:►

If you use Cable

Box, set it to the

VCR C/A CLOCK CHANNEL

· 1 -

CH AUTO SET PROCEEDII

After Channel Auto

Clock Set will be

Set is finished. Auto

CANCEL : STOP

performed.

PBS channel in your

press .

time zone.

B) Press ▲▼ to select

REPEAT PLAY ... REMOTE WARNING :ON AUTO SHUT- OFF :OFF IDIOMA/LANGUE : ENGLIS VCR'S OUTPUT CH :3

SELECT : ▲ ▼ ◀ ▶ EXIT : ACTION

Language

language item.

Press ► repeatedly.

ELECT: ▲ ▼ SET: ►
XIT : ACTION

For English

VCR C/A RELOJ

LEGIR :▲▼ FIJAR:►

For Spanish

For French

3) Press ACTION to exit.

1) Press ▲▼ to select

VCR C/A CLOCK CH

SELECT :▲ ▼ SET:► EXIT :ACTION

VCR C/A CLOCK CH

3) Press ACTION.

VCR C/A CLOCK C

PLEASE TUNE YOUR TV T

After 3 seconds

VCR C/A CLOCK C
REPEAT PLAY :OFF
REMOTE WARNING :ON

SELECT: ▲ ▼ SET: ► EXIT : ACTION

· To Make Corrections

repeat steps 1) ~ 3).

2) **Press** ▶.

"VCR'S OUTPUT CH."

VCR's Output Channel



Video Cassette Recorder Omnivision **VHS** 

**Operating Instructions** (Advanced Operations) For Basic operations, see the separate

"Basic Operations" instruction book.

# Model No. PV-V4612/PV-V4612S



## **Table of Contents** Multi-Brand Control Feature

Advanced Connections (Cable/DSS) MTS Broadcast / VHS Hi-Fi Stereo System Timer Recording Using VCR Plus+ System Tape Operation Before Requesting Service Copying Your Tapes (Dubbing). Special VCR Features On-Screen Displays (OSD) Reset Language, Channels, Clock, VCR's Output Channel ... 12



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



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.

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

- 10 -

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

Press ACTION to display menu.

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

Selecting ON has no effect on connected

Press ACTION to return to normal screen.

When set to ON, all operations except for timer

record and tape eject are prohibited. Useful for

REMOTE WARNING

and press ▶ to set ON

inserted for 7 sec. **3** Press ACTION to return to normal screen.

VCR Lock Feature

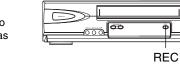
CASSETTE warning.) To turn off, repeat above.

To turn on, hold down

mode with no tape

REC on the VCR in Stop

2 VCR C/A CLOCK CH Press ▲▼ to select **AUTO SHUT-OFF** Press ▶ repeatedly to change shutoff time as



 The shut-off countdown will not unction 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.

- → hold down TV button
- → enter code with NUMBER kevs ■ Setup for Cable or DSS control.
- → hold down DSS/CABLE button,
- enter code with number kevs
- If code number is 100 or greater,
- → press 100 key, then other digits. E.g., press 100 0 2 for 102.
- **3** Confirm code entry,
- → press POWER to turn your TV on or off. See table below for controllable functions in each mode
- Repeat setup after remote battery replacement
- Remote will not control every TV, cable box, or DSS made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product

## **Using Multi-Brand Control**

Oak Sigma

After remote is set up, you can select VCR, TV, or DSS/CABLE for the desired function. Press VCR. or TV. or DSS/CABLE on the remote. (Table below shows available unit buttons for each mode.)

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

 Not all functions listed may be controllable In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing

NUMBER keys for channel selection.

Mitsubishi .

| Magnavox 05 Fisher                            |         | 10                               |                     |
|---|---------|----------------------------------|---------------------|
| Cable Box Brand Code Numbers                  |         | •                                |                     |
| Archer 05, 06, 01, 44, 63, 9                  |         | Quest                            |                     |
| Cabletenna 01, 44, 63, 9                      | 91, 126 | Radio Shack                      |                     |
| Cableview 63, 44, 42, 30, 52, 04, 12          |         | RCA                              |                     |
| Century 51, 44, 59, 7                         | 75, 126 | Realistic                        |                     |
| Citizen 63, 44, 42, 30, 52, 04, 12            |         | Recoton                          |                     |
| Curtis 08, 09, 61,                            |         | Regal 14, 15, 28, 41, 102        | , 103, 104, 108, 1  |
| Diamond 01, 44, 63, 9                         | 91, 126 | Regency 01, 32                   | 28, 1               |
| Drake   |         | Rembrandt 01, 32                 | , 39, 42, 44, 63, 1 |
| Eagle 13, 22, 58, 62, 20, 40, 2               |         | Salora                           |                     |
| Eastern                                       | 28, 130 | Samsung                          |                     |
| GC Brand 63, 44, 42, 30, 52, 04, 12           | 24, 126 | Scientific Atlanta               | 08, 09, 61, 53,     |
| Gemini (                                      | 04, 124 | Sheritech                        |                     |
| General Electric                              | 57, 01  | Signal                           |                     |
| General Instruments 01, 02, 03, 04, 34, 55, 8 | 3, 106, | SL Marx 32, 40, 42, 06           | 43, 44, 52, 63, 1   |
| 65, 67, 68, 115, 117, 118,                    | 124, 91 | Sprucer                          | 16, 17, 97, 1       |
| Hamlin 14, 15, 28, 41, 102, 103, 104, 10      |         | Standard Components              | . 32, 39, 42, 44, 1 |
| Hitachi                                       |         | Stargate 32, 40, 63, 44, 42, 30, | 52, 04, 06, 124, 1  |
| Jasco(  | 04. 124 | Sylvania                         |                     |
| Jerrold 01, 02, 03, 04, 34, 55, 8             | 3, 106, | Teknika                          |                     |
| 65, 67, 68, 115, 117, 118,                    | 124. 91 | Telecaption                      | 77. 1               |
| Macom   |         | Teleview                         |                     |
| Magnavox 2                                    |         | Texscan                          |                     |
| Matsushita 16, 17, 9                          | 97. 109 | Tocom 3                          | 3. 34. 01. 42. 66.  |
| Movietime                                     | 38. 40  | Toshiba                          |                     |
| NEC   |         | Uniden Satelite                  |                     |
| NOVAVISION 08, 09, 61,                        |         | Unika                            | . 01. 44. 63. 91. 1 |
| NSC   |         | Universal 42                     |                     |
| Oak   |         | Videoway                         |                     |
| 0   0'  |         | V:-  T -                         | 37, 20, 00, 1       |

| DSS Brand Code Numbers |    |           |      |
|------------------------|----|-----------|------|
| Hitachi/ Hughes        | 93 | Panasonic | . 97 |

Vidtek

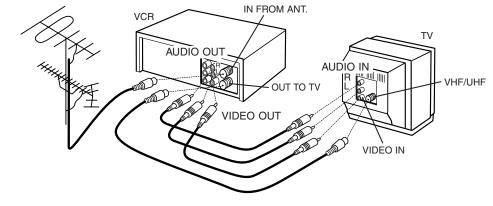
### Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one Some TV, Cable Box and DSS Box brands require you to turn on the power manually.

.....16, 17, 97, 109 ... 07, 13, 20, 23, 24, 50, 128, 129

... 63. 44. 42. 30. 52. 04. 124. 126

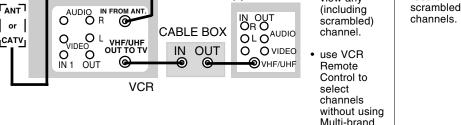
## **Advanced Connections**

to them to receive higher quality picture and sound

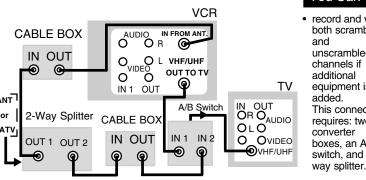


Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO.

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



■ Connect With Two Cable Boxes



the one recording

the cable

selected fo any type of do a Timer

a channel unless vou select if at

## Audio Mode for Recording

(Display disappears after 5 seconds.)

Press SAP/ Hi-Fi desired mode. above.

 Refer to "Receivable Broadcast Types"

or an external stereo amp and speakers. (See top of this page.)

· Hi-Fi and normal audio playback volume level may differ.

If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.

\*Important: If a remote control button does not work when pressed,

press the VCR button on the remote and try the button again.

• Arrow indicates selection

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

will playback in monaural sound.

1 Press SAP/ Hi-Fi to display audio mode. 1 Start playback. Instruction book

MTS Broadcast/VHS Hi-Fi Stereo System

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

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

The signal being received is indicated with an "fk" mark while the selected audio mode is

Make the Audio/Video Connection as shown on page 3

eceivable Broadcast Types

MTS Stereo and SAP broadcast

Select STEREO or SAP audio mode.

and Secondary Audio Program (sub language)

broadcasts are being received simultaneously.

Multi-channel Television Sound Stereo broadcast.

MONO audio mode for possibly better results.

Secondary Audio Program (sub language) broadcast.

Select SAP audio mode for the sub language.

• If stereo broadcast is weak and display flickers, select

To display the broadcast signal being received,

Multi-channel Television Sound Stereo (main language)

indicated with an arrow

MTS Stereo broadcast

**SAP** broadcast

**MONO** broadcast

Normal monaural sound broadcast.

Select STEREO audio mode.

→ press DISPLAY\*.

HIFI:L/R ◀

 Arrow indicates selection.

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

for monaural sound. • Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes

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

ZERO SEARCH.

**Tape Operation** 

### MERCIAL -- ADVANCE marks start and end points o commercials within recordings over 15 minutes

ong. The VCR automatically advances through narked commercials at high speed. Or, you may et to manual. Because stations broadcast differently, the effectiveness of this feature may vary. See bottom of page for answers to commonly asked questions about this feature.

### COMMERCIAL >> ADVANCE® Marking With C/A RECORD: ON, the VCR auto rewinds

after a recording is made and marks start and end points of all detected commercial blocks. After marking, the tape is returned to end of recording. Commercials are not erased. PYCR C/A CLOCK CH REPEAT PLAY OFF REMOTE WARNING ON TO DISPLAY MENU to display MENU.

IDIOMA/LANGUE : ENGL VCR'S OUTPUT CH :3 2 VCR ▶C/A CLOCK CH SET UP COMMERCIAL ADV. C/A RECORD SON C/A PLAYBACK SAUTO COMMERCIAL ADV. C/A and display SET UP

COMMERCIAL ADV. SELECT : A ▼ ◀ ► EXIT : ACTION 3 VCR C/A CLOCK CH SET UP COMMERCIAL ADV. AV. AV. CAR RECORD and press ► to set "ON" or "OFF"

a) 1 key (NOW) → to mark now.

press PROG/VCR+ **ON:** Timer recording, VCR Plus+ System, and One **4** Press ACTION again to return to normal screen. Press ▲▼ to change Touch recordings are marked automatically. record speed and When timer is used to record two consecutive shows (same channel),

Press PROG/VCR+ button to end program. ress PROG/VCR+ button again to exit. Press ADD/DLT to delete the program

VCR Plus+ System Programming

Press PROG/VCR+ button to display PROGRAM.

PLUSCODE NUMBER | display VCR Plus+

screen.

number and press

press **◄** repeatedly

repeat step 3.

PROG/VCR+ button

To Make Corrections,

to delete number. ther

(MON~FRI), or WEEKLY

record frequency and

**1** Prog. LIST Press **→** to select

3 VCR Plus+ PROG. LIST Press NUMBER keys

VCR Plus+ PROG. LIST Press ▲▼ to select

ER PLUSCODE NUMBER TO enter PlusCode

SING 0-9 KEYS

If the PlusCode

number entered

begins with "0," skip

to step 5. Display in

step 4 will not appear

To Make Corrections, press ▲▼ and ▶ to move to error, then ▲▼ to change, or ADD/DLT to erase number. CANCEL :ADD/DLI SELECT :▲▼ SET:► **7** Press POWER off to set timer recording.

Timer Recording Using VCR Plus+® System

This feature sets most items of a Timer Recording when you enter a PlusCode programming

o use VCR Plus+ system, clock and channels must be set (p. 4 of "Basic Operations" book).

dcast/ cable stations are assigned a VCR Plus+ (GUIDE CH) number. See the Channel

sting (directory) page of TV GUIDE, etc. In the Channel Setup below, you will be entering you

would enter 04 across from GUIDE CH 05 in step 3 of "VCR Plus+ System Channel Setup".

**Example**: if NBC's assigned GUIDE CH were 05, and your TV received NBC on channel 04, you

4 Press ACTION twice to end setup.

same

Do normal Timer Record if... PlusCode number is not listed for program

VCR Plus+ System is ...

VCR Plus+ System Channel Setup

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

You'll need a local TV channel listing (e.g. TV GUIDE) which includes the assigned VCR Plus+

1 VCRIC/A ICLOCK CHANNEL Press ACTION

2 IVCRIC/A CLOCK CHANNEL Press AV

Channel Setup..

AUTO SET WEAK SIGNAL DISPLAY CABLE/DSS BOX SET I VCR Plus+ CH SET UF

SELECT : A ▼ ◀ ► EXIT : ACTION

Equipped with dbx®-TV Noise

reproduction. dbx®-TV Noise

Reduction is required for good

stereo separation and audio

trademark, and is licensed by

fidelity. dbx<sup>®</sup> is a registered

dbx® Technology Licensing.

STOP 12:00AM CH 02 0:00:00

©STEREO ◀

Reduction for true MTS

number found in TV GUIDE and selected newspaper TV listings.

cal channel number (RECEIVE CH) for each GUIDE CH number

to display menu, and

to select CHANNEL.

to select VCR Plus+ CH

enter number press

Leave line blank if

or if GUIDE and

station is not received

RECEIVE CHs are the

to set. **press ▲**▼ to

scroll up/down.

is complete.

Press **◆**▶

NEAK SIGNAL DISPLAY: OFF SET UP, and press ► to

3 VCRIC/A CLOCK CHANNEL Press ➤ to move cursor

DE CH RECEIVE CH to right, press ▲▼ to

vcric/a clock channel • Repeat step 3 until list

• program (e.g. sports event) may run over set stop time. See page 6 of "Basic Operations" book to:

 cancel a timer recording in progress review, replace, or clear program contents Important for DSS/Cable Box Users

 When recording via DSS, the receiver must be left on. When recording via cable or antenna,

DSS receiver must be off. When recording via a cable box, leave box on and tuned to channel to be recorded.

outage, channel setup may be lost. Please do channel setup again. Obtain unlisted PlusCode numbers by

calling 1 - 900 - 454 - 7587. Call costs about \$.95 per minute.

## Tape Operation

### Repeat Play

Set to playback a recording over and over. 1 Press ACTION to display menu.

Press AV to select REPEAT PLAY and

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

Stop mode to start Unit will go into FF or RFW mode and

to display MENU IDIOMA/LANGUE : ENGLIS VCR' S OUTPUT CH :3

2 SET UP COMMERCIAL ADV.

CIA RECORD ON CIA PLAYBACK AUTO

CIA PLAYBACK AUTO

COMMERCIAL ADV. COMMERCIAL ADV.

to set "AUTO" or "MANUAL"

AUTO: VCR will automatically advance through marked commercial blocks recorded on the tape and then resume playback. MANUAL: VCR will advance through

> pressed. Playback will resume when the end mark of a commercial block is found, or a new recording or blank portion is detected, or after 8 minutes.

### Notes

• The mode set in step 3 remains unless a power outage occurs in which case the factory setting will be restored.

When STOP is pressed during normal recording, commercial, only a single commercial is shown, or a single commercial is longer than minute, a commercial may not be skipped. Press FF to quickly advance through the commercial.

onds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds.

'es. By setting the C/A PLAYBACK to MANUAL, see top of this

es. As long as C/A PLAYBACK is set to AUTO, see top of this page

MERCIAL -- ADVANCE VCRs, but commercials will not be advanced through

lo. If the interval between 2 or more timer programs is not sufficien

mark the recording, marking will be done after all recordings are

Marking will be resumed when the VCR's power is turned off as

The tape stops at the end of the recording so that any addition

page, you can view or advance through commercials as desired

'es. COMMERCIAL -- ADVANCE WORKS IN SP. LP. and SLP

timer recordings can be performed

nplete and the power goes off

ng as the tape has not been ejected

recording is started before power is turned off. ACTION (CANCEL) → marking is canceled OFF: The VCR will not mark commercials. Select when editing or dubbing a tape, or

**4** Press ACTION again to return to normal screen.

"NOW MARKING COMMERCIALS" appears.

b) 2 key (LATER) → to mark after power is

Are commercials still recorded on the tape in

Does commercial... ADVANCE work in all recording

Does the VCB advance through commercials

case I choose to view them sometime?

recorded using COMMERCIAL -- ADVANCE "

on-commercial -- ADVANCE VCRs?

turned off. (If tape is rewound and another

greater accuracy can be

each show separately

obtained by programming

### COMMERCIAL -- ADVANCE \* marked recordings can be played back so that commercial blocks are

The feature works in two ways advanced through automatically or manually. · You can go to the beginning of the movie. You can skip from one preview to the next.

> 1 Insert a tape without record tab. 2 SEARCH PROG. END MOVIE SKIP to display Press SEARCH/ M/A ENTER INDEX NUMBER :1 SEARCH.

Press ▲▼ to select C/A PLAYBACK and press ▶

> Select "GO TO START MOVIE," if you want to advance directly to beginning of the movie. continue with step 4 Select "GO TO PREVIEW," if you want to view the first (next) preview.

commercials only when CA/ZERO is SEARCH | INDEX | PROG. END | MOVIE searching. SEARCHING FOR START OF MOVIE To cancel, press STOP

When the movie is found...

playback.

• To cancel, press

recording number

see helow

To calculate number.

Press FF or REW on

the remote to start

If playback is started in the middle of a

 Part of a recorded program may be skipped over if the program portion between commercials is less than one minute or there are frequent dark and quiet scenes in the program. To correct, press PLAY during the skip, rewind tape to just prior to where skipping

The most commonly asked questions about COMMERCIAL+-ADVANCE\* are answered below

started, then press PLAY again for normal when opting not to use this feature. playback. When the end of the commercials is detected, auto advance will resume.

Are commercials advanced through only when I Yes. The commercials are not marked until after the recording is

**Index Search** INDEX PROG. END MOVIE SKIP to display

Press SEARCH/ M/A ENTER INDEX NUMBER :1 USING 1-9 KEYS SEARCH in Stop or Play mode, and then press NUMBER keys to select

BCH START :FF

Examples of **Program End 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

STOP or PLAY. To Calculate Index Number

Example 1: To go to rec. 2 from rec. 4, enter 3 and press REW.

1 2 3 4 5 6 7

Example 2: Γo go to rec. 6 from rec. 2, enter 4 and press FF. 1 2 3 4 5 6 7

NOTE: 

indicates start points of each recording.

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

Important: If a remote control button does not work when pressed,

MOVIE -- ADVANCE® Playback To Search for Preview.

You can override the operation of

MOVIE \*\* ADVANCE \* SEARCH FOR PREVIEWS mode by pressing SEARCH/ M/A SKIP during tape searching. MOVIE -- ADVANCE works by searching the tape past each preview and then reversing back to the start of the detected preview. While the tape is reversing back, it SEARCH/ M/A SKIP is pressed, MOVIE "ADVANCE" will begin searching for the next preview. While searching for the next preview, if you see the start of a preview which you wish to watch, press SEARCH/ M/A SKIP and MOVIE "ADVANCE" will immediately reverse back to the start of that preview, instead of searching further past the preview start point. Once the VCR is playing a preview, press SEARCH/ M/A SKIP to advance to the next preview, long commercial or the start of the

1 Start preview searching. 1) In step 3 at left, select Go To PREVIEW.

2) Press FF. · If you want to playback, press PLAY.

movie (whichever is next).

Start next preview searching

Press SEARCH/ M/A SKIP. To cancel, press STOP

5 SEARCH NOVIE

THE MOVIE IS READY

START : PLAY

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

**Program End Search** 

Press FF on the SEARCH INDEX PROG. END MOVIE remote to start PROGRAM FND SEARCH

exceeds a few

the current tape position End Point

Fig. 3 the current tape position Press SEARCH button

End Point

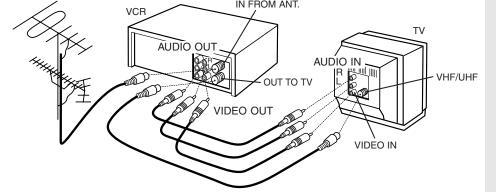
BLANK area. Upon locating end point,

press the VCR button on the remote and try the button again. • To cancel, press PLAY or STOP.

. 13, 22, 58, 62, 20, 40, 26,

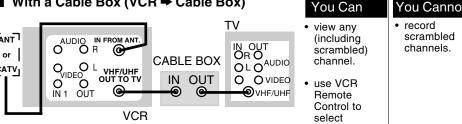
### **Audio/Video connection**

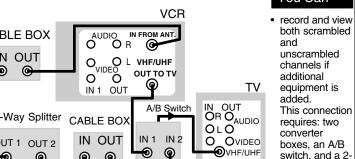
If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR



1 ) Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.

(2) Connect VCR's L/R AUDIO OUT jacks to the TV's L/R AUDIO IN jacks.





- 3 -

### You Can You Cannot

control feature

• record and view • view channel both scrambled other than recording of

Connection

## Audio Mode for Playback

See p. 5 of "Basic Operations"

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

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

To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV

exits setup

Zero Search

press ▶ to set ON or

stop at the last point

the Counter was set to 0:00:00

If a timer recording is scheduled for the middle of the night, please be aware that the VCR will make some noise

Does the marking process interfere with other What happens if I cancel the marking in

Press CA/ZERO in

What if part of my program is advanced through Please see the 3rd note on top of this page along with the commercial Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all

PLAY 12:00AM 0:00:00 Press HESL: COUNTER at desired COUNTER the end of the tape, or rewind to the beginning? **position** to reset to "0:00:00"

"TIMER" lights on Multi Function Display.) correct marking may not occur. Do not overlap program times. • See "Important for DSS/Cable Box Users" left. Make each entry within 1 minute or VCR

To quickly return to a specified tape location. 1 Press DISPLAY during play to display

Once VCR Plus+ channel setup is done, channels stay in memory. If there's a power

**3** Continue to record, playback, etc.

as it rewinds and fast forwards the tape while marking commercials.

COMMERCIAL -- ADVANCE and MOVIE -- ADVANCE are registered trademarks of SRT, Inc. en invention licensed in association with Arthur D. Little Enterprises, Inc U.S.Pat. No. 5,333,091; 5,692,093; 5,696,866 other patents pending

COMMERCIAL -- ADVANCE Playback

MOVIE\*\*ADVANCE® helps you locate certain parts of

MOVIE \*\* ADVANCE \* works only on tapes recorded in SP speed with the record tab removed.

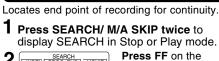
Press SFARCH/ M/A SEARCH | SEARCH | MOVIE SKIP twice to select GO TO START MOVIE MOVIE and press ▲▼ to select GO TO START MOVIE or GO

EXIT :SEARCH M/A SKIP TO PREVIEW.

**Tape Operation** 

→ go to "To Search for Preview" at right Press FF to start When a preview is detected, VCR will start playback.

Press PLAY to start



NEXT :SEARCH M/A SKIP EXIT :STOP To cancel, press STOP or PLAY

Program 1 BLANK Program 2 BLANK

Program 1 BLANK If search

→ search continues 7 sec. past end point, → tape rewinds to 10 sec. before end point,

tape plays to end point and stops.

If Program End Search is started very close.

to an index mark, that mark may be skipped