# **Location of Controls**

**Multi Function Display** 

### Power Indicator -**Timer Indicator** Lights up when power is on. 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. TIMER VCR VCR Indicator Lights up when Lights up when the VČR/TV selector is set to VCR. Clock/ Status/ Channel/ Speed Display Displays the current time. Briefly displays VCR status Hi-Fi Indicator

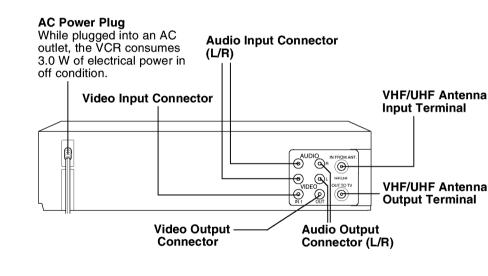
# Rear View of the VCR

when a function button is pressed.

when a channel or line input is selected.

Briefly displays the channel number, or "L1" or "L2"

Briefly displays the recording speed when SPEED is



### Note to CABLE system installer

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

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

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

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

Printed in Indonesia LSQT0578B

Lights up when Hi-Fi audio is

monitored in Playback Mode.

## 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.

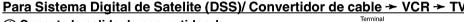
PRECAUCIÓN-Al usar cables coaxiales RF del tipo "tuerca", apriételos solamente con los dedos. Un apriete excesivo puede dañar los terminales.

# Para Ant/Cable → VCR → TV

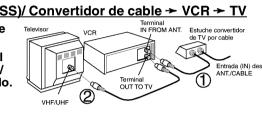
### (1) Conecte el cable de la antena al terminal IN FROM ANT del VCR.

CONEXIONES

(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.



4 SELECCION DE CONEXION en el

menu desplegado en pantalla.

Presione **▲▼** para obtener las

Presione **▲▼** para obtener la

v presione ▶ para seleccional

Confirme el canal de salida de su

convertidor de cable o receptor de

selecionar el mismo canal de salida

VCR C/A CLOCK CHANNEL
SELECT CONNECTION
CABLE/DSS BOX▶VCR▶TV

ABLE/DSS BOX OUTPUT

Si aparece en la pantalla "FIJACION

INCOMPLETO", Ajuste el reloj como se

VCR C/A CLOCK CH

AUTOMATICA DEL RELOJ ES

DSS presione **A**▼ que permitiran

que su convertidor o DSS.

Presione ▶ para seleccion

conexion "CABLE/DSS ▶ VCR ▶ TV"

conexiones "VCR ▶ TV". o

seleccionar

cable→VCR→TV.)

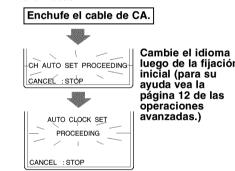
■ (Si la conexion es ANT/CABLE->VCR->TV.)

"VCR ► CABLE/DSS ► TV", v presione

VCR C/A CLOCK CHANNEL

## CONFIGURACIÓN INICIAL

- **1** Encienda el TV y cambie al canal 3.
- 2 Enchufe el cable de CA. La videograbadora se encenderá e iniciará las fijaciones de los canales y
- Si no aparece la pantalla de abaio, 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.



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

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



PLEASE SET CLOCK BY PRESSING ACTION KEY

al paso 4 anterior.

### 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.



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).

VCR C/A RELOJ CANAL



para poner el RELOJ en marcha y pase

Ver un canal y grabar otro. Presione VCR/TV. visualización de Multi-Función") permanece grabando)

grabación con temporizador (el indicador Seleccione canales con VCR. Presione VCR/TV (la indicación "VCR" se ➤ Seleccione canales en su VCR.

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

1 VCR PUBLE | PPROG. LISTA | 1) Presione PROG/VCR+. 7 SAB --:-- --:- --- 2) Presione ▼ para

Spanish Quick Use Guide/ Guía para rápida consulta

OPERACIONES BÁSICAS PARA

· 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 sigue:

aprox. 9X ↔ aprox. 7X

SPI 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

Fiia (Congelada).

en cámara lenta.

del cassette

el cassette

LA GRABACIÓN

[SLP] aprox. 21X ↔ aprox. 9X

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,

Si la imágen se interrumpe con la velocidad de

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

■ Presione PAUSE/SLOW para imagen

■ Presione PAUSE/SLOW en el modo

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

cada vez que **presione FF** o **REW** se

escenas hacia delante/ hacia atrás.

En la Pantalla de Visualización Multi

LA REPRODUCCIÓN

Función se ilumina "VCR".

Inserte una cassette.

- 2) Presione ▼ para visualizar la pantalla de Programación.
- 2 1) Para ajustar la FECHA de grabación, presione **A**▼ para seleccionar: 1-31 = una vez. o PROG. LISTA DIARIO = a la misma



hora de lunes a viernes, o SEMANA = a la misma hora cada semana y **presione** ▶ para ajustar.

Orden para elegir →8-9······31-1-2·····6-Ejemplo ▲/▼ Orden para elegir DIAF Fecha de hoy -

2) Para los ajustes siguientes, presione ▲▼ para seleccionar v **presione** ▶ para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LINEA, y velocidad del cassette (SP, LP, SLP). Presione PROG/VCR+ para finalizar el programa.

Presione ▲▼ para seleccionar un número que no está usando para ingresar mas programas y presione ▶ para ajustar. Luego repita el paso 2. VCR PNUS- PROG. LISTA PRESIONE nuevamente



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

h FE INIC PARADA CA VEH PROS. LISTA PRESIONE ▲▼ para

PRUS+ PROG LISTA 1) Presione ▶ para

10 8:00P 9:00P 10 SP deseado.

C Para reemplazar programa...

Para cancelar programas.

CANCELAR: ADD/DLT ELEGIR : ▲ ♥ FUAR: ► SALIR : PROG

VCR Plus+ PROG. LISTA

CANCELAR: ADD/DLT ELEGIR : ▲ ▼ FIJAR: ► SALIR : PROG

programacion.

**CON TEMPORIZADOR** 

(la grabación está teniendo lugar)

de los 10 segundos para cancelar la

Presione POWER y luego STOP dentro

2) Presione ◀▶ para

seleccionar programa

desplegar menu.

2) Repita paso 2 (ver

Presione ADD/DLT

arriba) para introducii

el nuevo programa.

seleccionar la linea.

### OPERACIONES BÁSICAS PARA REVISIÓN. REEMPLAZO O **BORRADO DE PROGRAMACIONES** (no se puede efectuar durante la grabación)

Inserte el cassette con lengüeta de a VCR PILIST PROG. PLISTA 1) Presione PROG/VCR+ protección de grabación (p. 3). La alimentación del VCR se activa. En la pantalla Multi Función se ilumina

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. Presione REC repetidamente para ajustar la duración de la grabación como sigue: como sigue: 30 min. → 1 hr → 1:30hr → d Presione PROG/VCR+ Para terminar 2:00 → 3:00 → 4:00 → Salida. La VCR se apagara automáticamente en en intervalo seleccionado de tiempo. PARA CANCELAR LA GRABACIÓN

(La indicación VCR se apagara en la → Seleccione canales de TV (Mientras

TIMER se apagará en la Pantalla de Multiencenderá en la vizualización multi-función) Función) - 10 -

# 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 (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 especiales, la imagen puede contener algunos saltos verticales cuando se utiliza un televisor con Control de Bloqueo Vertical Automático	se	
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	

### CORRECCIÓN CONTROL REMOTO NO funciona el control remoto... Asegúrese de que el aparato está encendido.

	<ul> <li>Asegúrese de que el control remoto está en le modo de VCR.</li> <li>Apunte el control remoto derectamente al sensor remoto del VCR. (BO p. 7)</li> <li>Evite que ningún objeto interrumpa la señal del control remoto.</li> <li>Revise las pilas del control remoto (BO p. 3)</li> <li>Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)</li> <li>Si el sensor remoto recive directamente la lus del fluorescente o luz solar puede causar interferencia con la señal del control remoto.</li> </ul>
Los botones "ACTION" y/o "PROG" no responden	<ul> <li>Verifique las conexiones entre VCR, cable o antena y TV.</li> <li>Presione el botón VCR para el modo de "VCR". (AO p. 2)</li> <li>Revise las baterias del control remoto. (BO p. 3)</li> </ul>

Asegúrese que la TV este encendida

hasta la el modo de búsqueda en rebobinado

CORRECCIÓN

Asegúrese de que no está funcionando una grabación con

Asegúrese que la TV esté conectado a la salida de la VCR

# No se pueden ver los programas en el televisor.

vídeo..

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 Inserte el cassette con el lado de la ventana hacia arriba y la No se puede introducir la cassette de pestaña de grabación frente a usted. Verifique que no tenga ningún cassette dentro del aparato.

Inserte o conecte completamente el cable de alimentación de No se puede extraer la cassette de AC a la toma de pared La cassette de vídeo es expulsada al intacta, (BO p. 3) dar comienzo a una grabación o al desactivar la alimentación para la grabación con teporizador. Para activar rápidamente el mecanismo de reproducción, el (CILINDRO) sigue girando... tiempo de respuesta desde la parada hasta la reroducción o

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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 envie 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 Products** Limited Warranty

Limited Warranty Coverage

f 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 Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico.

This warranty is extended only to the original purchaser of a new product which was not sold "as is" For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company Customer Servicenter Suite E

4900 George McVay Drive

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 MERCHANTARILITY 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 fealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

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

# **Customer Services Directory**

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

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

## Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check) Service in Puerto Rico

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

As of April 2002

**Panasonic** 

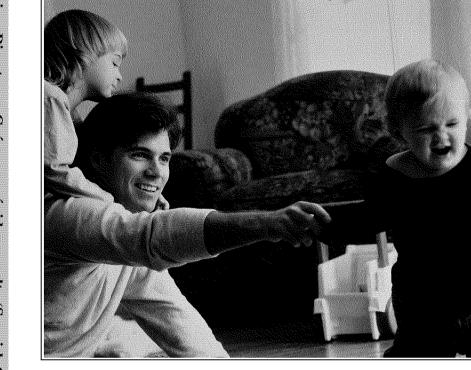
Video Cassette Recorder



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

**Operating Instructions** 

# 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

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Spanish (Español) Quick Use Guide..

Location of Controls

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. (Ġuía para rápida consulta en español está incluida.)

## or 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

ate only from a power source indicated on the unit or in this manual. If necessary, have roducts Dealer verify the power source in you

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

### POLARIZED PLUG CAUTION This plug will only fit into an outlet one way. If yo

cannot fully insert the plug, try reversing it. If it still with the plug. GROUNDING PLUG CAUTION

outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by ampering with the plug. 3 POWER CORD Make sure power cords are routed so that they

over them, or be in the way of walking traffic replaced by a qualified service technician hazards and should be avoided

DO NOT BLOCK VENTILATION HOLES

bed, sofa, rug, or other soft surface. case or rack, unless proper ventilation is

5 AVOID EXTREMELY HOT LOCATIONS OR

ense in the unit and on the tape Do not place unsecured

equipment on a sloping Do not place this unit on an support that is not firm, leve and adequately strong. The unit could fall causing ser injury to a child or adult and

damage to the unit.

and cart combination to overturn

# OUTDOOR ANTENNA INSTALLATION

SAFE ANTENNA AND CABLE CONNECTION If an outside antenna or cable system is connected to the equipment, he sure the antenna or cable system is grounded charges and voltage surges. tion 810 of the National NEC - NATIONAL CODE Electrical Code, ANSI/NFPA

GROUND
CLAMP
ANTENNA
ANTENNA
(SEE SECTION 810-25) 0 (in Canada, part 1 of the Canadian Electrical Code) provides information with of the mast and supporting POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H. tructure, arounding of the lead-in wire to an antenna discharge unit, size

of grounding conductors, location of antenna discharge unit ction to grounding electrodes and requirements for the aroundina electrode KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

should happen to fall. When installing an outside antenna

USING THE VIDEO UNIT

IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR

STRONG IMPACT, unplug the unit and have it inspected by

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

OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a

rcuits or other power sources as this could be fatal.

KEEP THIS VIDEO UNIT AWAY FROM WATER OF

irst to the INSTALLATION section of these safe

a qualified service technician before use.

DURING AN ELECTRICAL STORM

4 WHEN THE UNIT IS PLUGGED IN

MOISTURE OF ANY KIND

extreme care should be taken to avoid touching power lines

Because of the hazards involved, antenna installation should

een in storage or moved to a new location, refe

n 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

outlet. Do not defeat the safety feature by tampering This plug will only fit into a three-hole grounding

are not likely to have anything rest on them roll f 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 verloaded outlets and extension cords are fire

ation openings in the cabinet release hear enerated during operation. If they are blocke eat build-up inside the unit can cause failure 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

Do not place the unit over or near any kind o heater or radiator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit auddenly between areas of extreme temperatur ariation. If the unit is suddenly moved from a cold place to a warm place, moisture may

TO AVOID PERSONAL INJURY

moved with care. Quick stops, excessive force

 Carefully follow all operating instructions and accessories when operating this unit or onnecting it to any other equipment

lependable product will provide years of (Serial number is on tag on back of VCR.)

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

PLAY Dealer Address Dealer Phone No.

Serial No. .

☐ Remote Control LSSQ0313 (PV-V4612) LSSQ0343 (PV-V4612S)

(m) (m) 000

service technician. Fire and shock hazards can result from

 Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages an contact can cause electric shock or fire hazard. Avoid placing the unit directly above or below your TV set nagnets away from electronic equipment.

Never expose the unit to rain or water. DO NOT

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

6 CLEANING THE UNIT

Inplug the unit, Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could overspray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

IF REPLACEMENT PARTS ARE REQUIRED

# **Safety Precautions**

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

on vour new purchase! With proper use, this enjoyment. Please fill in the information below.

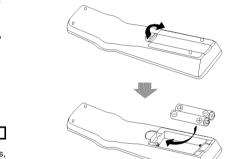
## Accessories

☐ Batteries 2 "AA

☐ RF Coaxial VJAS0196 

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

## Loading the Batteries



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

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

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY

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

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.



# Before Using

Congratulations

Old or damaged tapes may clog heads. Video Head Clog Sensor

Screen-right appears during play if clogging is detected. To remove screen, press • Use "dry" type head

(Part No. NV-TCL30PT is recommended.) Follow cleaning tane instructions carefully: Excessive use of tape can shorten head life

Cleaning the VCR

Alcohol and various solvents could damage

## Specifications

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

Video Signal: Video Recording **Audio Track:** 

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

Special CABLE channel 5A 5 °C ~ 40 °C (41 °F ~ 104 °F)

Operating Humidity: 10 % ~ 75 % Weight: 2.7 kg (6.0 lbs). 16-15/16" (W) x 3-7/8" (H) x 9-9/16" (D) inch

Automatically controls the video output signal for

Continuously analyzes the signal and adjusts for

Use during Playback and Slow Motion mode to

Press CH (TRACKING) ▲/▼ on the remote

less noise depending on the tape condition.

**Digital Auto Picture** 

optimum picture quality.

**Manual Tracking Control** 

(to reduce picture noise

## Prevent Accidental Tape Erasure

Do not mix alkaline with manganese batteries

☐ Battery replacement caution

Do not mix old and new batteries.

Break off the tab to prevent recording Record Tab Screw driver

Cover the hole with cellophane

# Record/Playback Time

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

Approx. 3.0 W

EIA Standard NTSC color 4 rotary heads helical scanning system 1 track (Normal) 2 channel

> Lowband A-5 ~ A-1 (95 ~ 99) Ultraband 65 ~ 94, 100 ~ 125

430 (W) x 98 (H) x 242 (D) mm

Note: Designs and specifications are subject to

### Features for a Quality Picture To record again

Only use tapes with the WHS mark in this unit.			in this unit.	control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off,
Tape Speed Type of Video Cassette		Cassette	then on again a few seconds later.	
Setting	T60	T120	T160	
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes	
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes	V-Lock Control (to reduce picture jitter)
SLP Super Long Play)	3 Hours	6 Hours	8 Hours	In Still mode, <b>CH</b> (TRACKING) <b>▲/▼</b> operate as a V-Lock control.

# 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

 Connect cable from Antenna/Cable to VCR's IN FROM ANT, iack. (2) Connect VCR's OUT TO TV jack to

Cable accessory. For DSS/Cable Box → VCR → TV (1) Connect your cable box's OUT jack

② Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.

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

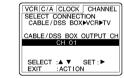
f 4 SELECT CONNECTION screen is displayed ■ (If ANT./Cable → VCR → TV connection.) press ▲▼\* to select "VCR ► TV", or "VCR ▶ CABLE/DSS BOX ▶ TV", and

press ▶ to set. SELECT : ▲ ▼ SET : ►
EXIT : ACTION

■ (If DSS/Cable Box → VCR → TV connection.) press ▲▼ to select "CABLE/DSS BOX▶ VCR▶TV" and press ▶ to set.



Verify the output channel of your cable box or DSS receiver and press **▲▼** to select and **▶** to enter that channel number.



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

# 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

9/29 / 2002 SUN 12:00 SET COMPLETED SET : ◀ ▶ START : ACTION

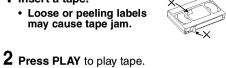
C Press ACTION to start clock, and go to step 4 above.

# Playback / Record on a Tape

## Playback a Tape

Insert a tape.

 Loose or peeling labels may cause tape iam.



**Special Features During Play** Forward/Reverse Scene Search

If tape has no rec. tab (p. 3), auto play begins.

Press PI ΔV to release After search has begun, each additional press of FF or REW changes speed as shown below [SLP]: Approx. 21X ↔ Approx. 9X

Press FF or REW.

: Approx.  $9X \leftrightarrow Approx. 7X$ : 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 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.

# · These features work best in SP or SLP mode.

and the video heads

• The sound will be muted. · To reduce picture noise, see "Manual Tracking Control" on p. 3. After VCB is in Still or Slow mode 3 minutes, it

**3** Press STOP to stop tape. Press REW or FF in Stop mode to

auto switches to Stop mode to protect the tape

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

## Record on a Tape

4 Press REC

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



2 Press CH ▲▼ or NUMBER kevs 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).

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

**5** Press STOP to stop recording.

> 4.00 > exit

One Touch Recording record in progress) Press REC repeatedly to set length as follows: 30 min. → 1 hr. → 1:30 → 2:00 → 3:00

The VCR shuts off at the length set. Record one station, watch another Press VCR/TV

("VCR" goes out on Multi Function Display),

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

("VCR" lights up on Multi Function Display), ➤ select channels on VCR.

 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 mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

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

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

### Timer Recording **Location of Controls**

## Timer Recording

1 1) Press PROG/VCR+\* button. 2) Press ▼ to display program screen.

Example 2 VCR PIUS+ PROG. LIST 1) Set record DATE, press ▲▼ to select: **→**8−9······31− 1 − 2·····6− or DAILY= MON~ FRI. SELECT▲ / ▼ Selection Order DAIL or WEEKLY= same time each week and **press** ▶. WEEKLY WEEKLY WEEKLY

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).

Press PROG/VCR+ button to end programming.

To Enter More Programs

| Vor Plust | PROG. | LIST |
| DT START | STOP CH SPD |
| 13 2 00P 3720P 02 SLP |
| Press ▲▼ to select and Press ▲▼ to select and press ▶ to set an unused program. Then repeat step 2. Or, press PROG/VCR+ button to exit.

 $1 \sim 31 =$  one time.

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

a 1) Press PROG/VCR+ button.

2) Press ◀▶ to select LIST.

(above) to set new programs.

C Press PROG/VCR+ button to end the

on-screen, please re-enter the timer programs.

## (Recording is in progress)

Cancel a Timer Recording

CANCEL :ADD/DLT SELECT :A ▼ SET:► EXIT :PROG

VCR Plus+ PROG. LIST

programming.

seconds to cancel the Timer Recording. (The TIMER indicator goes out on Multi Function Display.)

Press POWER and then STOP within 10

### SAP/Hi-Fi-(Selects audio mode for play or record)

(Adjusts TV volume) (Selects channel/ reduce: picture noise during Play and **Light Tower Universal Remote Control** LIGHT button: When pressed, available buttons light and selected mode button (TV, VCR, o

DSS CABLE) flashes 5 seconds. If no button is pressed, light goes out in 5

 $\sqrt{1}$   $\sqrt{2}$   $\sqrt{3}$ 

4 5 6

7 8 9

100 O C

\_LIGH

(Illuminates the remote

(Enables TV functions

-DSS/CABLE mode

(For LINE or channel

(Selects channel directly

(Displays VCR status

(Locates tape position

-TAPE POSITION

-SEARCH/ENTER

MOVIE ADVANCI

(Starts Movie Advance

(Changes tape speed

(Records a program, etc.

CHANNEL UP/DOWN

TRACKING/ V-LOCK

**ZERO SEARCH** 

Zero Search

-RECORU

(Adds or deletes a channel

-PROGRAM/VCR-

-NUMBER Keys

-ADD/DELETI

seconds. Also, hold down a button to confirm the selected mode (mode buttor flashes) in the dark. EJECT button: Press to eject tape. EJECT is not available during recording.

Front View of the VCR

Remote Control Buttons

(Ejects tape)

(Turns VCR off/on)

(Enables VCR functions)

(For TV or VCR mode)

FAST FORWARD/SEARCH-

(Fast forwards tape/ forward

(Rewinds tape/ reverse visual

A▼◀▶ Remote kevs -

operation keys when menus

PLAY, STOP, REW, and FI

PI ΔΥ (Plays a tape)

REWIND/SEARCH

STOP (Stops tape)

function as AV

are displayed.

(Displays menu)

PAUSE/SLOW -

COUNTER RESET—

or slow motion picture)

**VOLUME UP/DOWN** 

(Resets counter to zero)

(Displays still, frame by frame,

ACTION -

visual search)

POWER.

Cassette Compartment STOP/EJECT POWER FORWARD Video SEARCH Input Connector REWIND/ Audio Input-CHANNEL UP/DOWN Remote RECORD Connector TRACKING/ V-LOCK Sensor

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

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

# Head Cleaning

TV's ANT. IN jack with included RF

to the VCR's IN FROM ANT. jack with an RF cable.

Initial Setup (Ready to Play) 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).

CANCEL :STOP

appears.

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

AUTO CLOCK SET PROCEEDING

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 9/29/2002 SUN 2:20PM SETTING : CH 10

VCR C/A CLOCK CH AUTO CLOCK SET IS INCOMPLETE PLEASE SET CLOCK BY PRESSING ACTION KEY

Fast Forward

■ Play Auto Eject (Reneat Play must be off) Play → Tape end → Rewind → Tape ejects if there is no record tab

→ Tape end → Rewind

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

# Review, Replace, or Clear Program

(Recording is not in progress)

b vcr Plust PROG. LIST Press ▲▼ to select desired program.

C To Replace program.. 1) Press ▶ to display SUNC9:00A 12:00A 08 2) Repeat Step 2

SELECT : A ▼ SET: ► END : PROG To Clear program.. Press ADD/DLT.

CANCEL :ADD/DLT SELECT : ▲ ▼ SET: ► EXIT : PROG

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.

canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears

If a power interruption occurs while programming the timer, the timer program(s) may be

- 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.

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

Correction Completely insert Power Plug into an AC outlet. Set POWER button to on. Make sure power source is active Recording & Playback Correction

Timer recording cannot be

contain some vertical litter when using

ACTION and PROG/VCR+ buttons do

Video cassette cannot be inserted..

Video cassette cannot be removed

recording is started or the power is

In Stop mode, the motor (CYLINDER)

assistance at 1-800-211-PANA (7262).

Panasonic Sales Company ("PSC"),

Carolina, Puerto Rico 00985

Panasonic Consumer Electronics Company,

One Panasonic Way Secaucus, New Jersey 07094

Division of Matsushita Electric of Puerto Rico, Inc.

or send e-mail to : consumerproducts@panasonic.com

Division of Matsushita Electric Corporation of America

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

turned off for timer recording...

continues to rotate..

VCR cannot be controlled.

Remote Control

not respond.

Miscellaneous

performed..

Control

### 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)

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

a TV with an Automatic Vertical Hold Make sure VCR power is on.

Set TV's Vertical Hold Control to MANUAL, then adjust.

Confirm that clock is set to current time and date.

Make sure Cable/DSS box (if used) is left on and tuned t

Check Remote batteries. Make sure VCR LOCK is set to off. (AO p. 10)

Make sure Timer Record is not in progress.

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 VCB remote sensor to direct fluorescent or outdoor light may cause signal interference.

Check connections between VCR, external antenna, and

Press VCR button for VCR mode. (AO p. 2)

Check Remote batteries. (BO p. 3)

Correction Make sure TV power is on. Programs cannot be viewed on TV.. Make sure TV is set to output of VCR.

If you cannot resolve the problem, please call the Customer Call Center for product

To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262).

Check connections between VCR, external antenna, and Set VCR/TV selector to "TV." (BO p. 5)

Make sure proper signal source is selected.

Make sure cassette record tab is intact. (BO p. 3)

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

Insert the cassette with window side up; record tab facing Check if a tape is already in the unit.

■ To Monitor Dubbing on Your TV Completely insert Power Plug into an AC outlet.

Printed in Indonesia

LSQT0579B

S1201-1052

Recording VCR channel (CH3 or CH4). 2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

Playing (Source) VCR

Insert pre-recorded tape.

3 Press PLAY, then PAUSE/SLOW

Press PLAY to start dubbing.

Playing VCR starts playback.

5 Press STOP to stop dubbing.

nmediately to enter PLAY/PAUSE mode.

and recording VCRs at the same time.

Copying Your Tapes (Dubbing)

IN FROM ANT.

AUDIO IN

Onnect 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.

Simply connect the unit's Audio/Video outputs to the Recording VCR.

The operation of steps 4 and 5 must be done on both playing

In place of a Playing VCR, you can use other equipment, such as a Camcorder

/VIDEO IN

Front of VCR

OUT TO TV

VIDEO IN 2 L-AUDIO IN2-R

(Front Audio L/R Video IN jacks

 $\circ$ 

are also provided

Recording (Editing) VCR

Press INPUT\* to set VCR Input mode to LINE1

Input (Front). (See "Selecting the Input Mode"

for Video Input (Rear) or to LINE2 for Video

Insert blank tape with record tab.

Press REC, then PAUSE/SLOW

immediately to enter REC/PAUSE mode.

Press PAUSE/SLOW to start dubbing.

Recording VCR starts recording.

Press STOP to stop dubbing.

0

Connection

(Rear connection shown.)

VCR

(HiFi)

AUDIO OUT

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

■ Selecting the Input Mode

1 Turn your TV on and tune to the Press INPUT repeatedly Channel Number ↔ LINE1 ↔ LINE2

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

(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 copyright infringement.

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## **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 indication to appear The present tape position indication is displayed

• 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

VCR Lock Feature

buseholds with small children

equipment with blue back feature.

Press ACTION to return to normal screen.

Press ◀► to select

and display CHANNEL

Press ▲▼ to select

DISPLAY, and press

▶ to set ON or OFF.

**WEAK SIGNAL** 

When set to "ON." picture is displayed

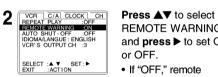
Press ACTION to display menu.

regardless of signal strength.

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.

Remote Warning ON/OFF Feature

Press ACTION to display menu.



**2** Press TAPE POSITION

to return to normal screen

REMOTE WARNING and press ▶ to set ON or OFF. If "OFF," remote warning will not appear if invalid key is pressed

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

When set to ON, all operations except for timer

record and tape eject are prohibited. Useful for

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

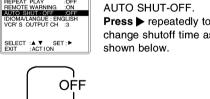
## Auto Shut-Off Feature

The power shuts off at a preset time.

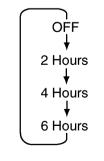
· VCR Lock cancels in 24 hours if clock is set

1 Press ACTION to display menu

2 VCR C/A CLOCK CH Press ▲▼ to select



change shutoff time as shown below



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

. 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.

- 10 -

# On-Screen Displays (OSD)

On-Screen Displays (OSD)

TO CANCEL TIMER REC

PRESS POWER THEN

**USE VCR: VCR KEY** 

STOP KEY

**Function & Channel Displays** 

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

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 **Current Time** Rec Time Remaining\_

Blank Tape/

No Video Signal Indications

overlay at right, → press DISPLAY\* 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 operation or provide further instructions

Caution Page See page 6 of PLEASE SET CLOCK BY If you attempt to set or review a Timer **Basic Operations** PRESSING ACTION KEY Recording and the Clock is not set ... See page 6 of TURN VCR OFF After a Timer Program has been set.. Basic Operations FOR TIMER RECORDING If you press REC on the remote See page 3 of CHECK CASSETTE control or VCR, and a cassette is Basic Operations RECORD TAB inserted with no record tab...

If you press PLAY, FF, REW, or REC NO CASSETTE on the remote control or VCR without a cassette inserted

a Timer Recording..

(visible in VCR mode only)

VIDEO HEADS MAY NEED CLEANING See page 3 of PLEASE INSERT HEAD f head cleaning becomes necessary Basic Operations CLEANING CASSETTE while playing back a tape .. OR REFER TO MANUAL END :PLAY If you press a function button other VCR LOCK ACTIVATED than STOP/EJECT or POWER while See page 10 the VCR is in VCR Lock mode. REMOTE CONTROL IS SET If you press an invalid key on the TO CABLE/DSS MODE emote while in CABLE/DSS mode..

- 11 -

If you press POWER or STOP during

After 3 seconds See pages 2, 10 **USE VCR: VCR KEY** REMOTE CONTROL IS SET If you press an invalid key on the emote while in TV mode. See pages 2, 10

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

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

See page 5 of

See page 6 of

Basic Operations

Basic Operations

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

SELECT : ▲ ▼ ◀ ▶ EXIT : ACTION

Language

language item.

SEL. :▲ ▼ REGLER:▶
QUITTER :ACTION

) Press ACTION to exit.

■ VCR's Output Channel

1) Press ▲▼ to select

SELECT : A ▼ SET: ► EXIT : ACTION

VCR C/A CLOCK

B) Press ACTION.

VCR C/A CLOCK C

PLEASE TUNE YOUR TV TO

VCR C/A CLOCK CI REPEAT PLAY :OFF REMOTE WARNING :ON AUTO SHUT- OFF :OFF

SELECT: A ▼ SET: ► EXIT : ACTION

2) **Press** ▶.

"VCR'S OUTPUT CH."

For French

Channels Clock

) Press ▲▼ to select 1) Press ◀ ▶ to select CHANNEL. AUTO SET WEAK SIGNAL DISPLAY: C CABLE/DSS BOX SET UP VCR Plus+ CH SET UP

Press ACTION

to display MENU.

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

WEAK SIGNAL DISPLAY: CABLE/DSS BOX SET UP VCR Plus+ CH SET UP For English SELECT : A ▼ SET: ► EXIT : ACTION 3) Press ▲▼ to select "AUTO SET," then ELEGIR :▲▼ FIJAR:▶ SALIR :ACTION press . For Spanish

If you use Cable Box, set it to the PBS channel in your time zone. VCR C/A CLOCK CHANNEL

> CH AUTO SET PROCEEDING CANCEL: STOP After Channel Auto

Set is finished, Auto Clock Set will be exit this mode

1) Press ◀ ▶ to select MANUAL TIME ZONE ADJUST :

2) Press ▲▼ to select SET.")

appears only when auto clock is set.) VCR C/A CLOCK CH

DST (Davlight Saving Time). Press ACTION to start the Clock and ■ Time Zone Adiust (Only when Auto Clock

VCR C/A CLOCK SELECT : A ▼ ◀ ► EXIT : ACTION

SELECT : A ▼ SET: ► EXIT : ACTION "TIME ZONE ADJUST"

9/2002 SUN 📜

SELECT :▲ ▼ SET:► EXIT :ACTION 3) **Press ▲▼** and **⋖▶** to select and set the date, time, and

is set.)

VCR C/A ►CLOCK CH

MANUAL TIME ZONE ADJUST :

CLOCK.

CLOCK.

1) Press ◀ ▶ to select

"MANUAL," and press . (For Auto Clock Set, select "AUTO CLOCK 2) Press ▲▼ to select TIME ZONE ADJUST

SELECT : A ▼ SET: ► and **press** ▶ to

hour(s) as necessary Press ACTION. "TIME ZONE

ADJUST" returns to "0" if clock is set

subtract or add

Add or Delete a Channel

To add channel: Select channel with NUMBER keys and press ADD/DLT. CHANNEL OR ADDED

To delete channel: Select channel with CH ▲/▼ or NUMBER keys and press ADD/DLT.

CHANNEL 08 DELETED

**DST (Daylight Saving Time)** 

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.

VCR auto adjusts clock for DST

Spring (First Sunday in April)



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.

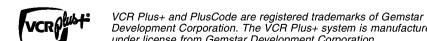
Please read these instructions carefully before attempting to connect. operate or adjust this product. Please save this manual.



## **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

Reset Language, Channels, Clock, VCR's Output Channel ... 12



On-Screen Displays (OSD)

**Panasonic** 

Video Cassette Recorder

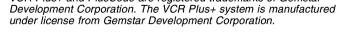
**Operating Instructions** 

Model No. PV-V4612/PV-V4612S

(Advanced Operations)

or Basic operations, see the separate

"Basic Operations" instruction book.





or 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 and Cable box/DSS functions.

- 1 Find your TV and Cable Box/DSS Receiver Brand Code Number from those shown below. 2 Setup for TV control,
- → hold down TV button, → enter code with NUMBER keys
- Setup for Cable or DSS control
- → hold down DSS/CABLE button
- enter code with number 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** After remote is set up, you can select VCR, TV, or DSS/CABLE for the desired function

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

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

Hitachi ..... Mitsubishi

Zenith Magnavox		
Cable Box Br	and Code Numbers	
Cabletenna Cableview Cableview Century Citizen Curtis Diamond Drake Eagle Eastern GC Brand Gemini General Electric General Instrument Hamlin Jasco Jerrold Macom Magnavox Matsushita Movietime NEC NOVAVISION NSC Oak Oak Sigma Panasonic Philips Pioneer		Quest         05,06           Radio Shack         51,44,59,75,126           RCA         16,17,97,109           Realistic         51,44,59,75,126           Recoton         51,44,59,75,126           Regal         14,15,28,41,102,103,104,108,130           Regency         28,130           Rembrandt         01,32,39,42,44,63,126           Salora         68           Samsung         05,32,40,42,06           Scientific Atlanta         08,09,61,53,87           Sheritech         27           Signal         26,112           SL Marx         32,40,42,06,43,44,52,63,126           Sprucer         16,17,97,109           Standard Components         32,39,42,44,126           Stargate         32,40,63,44,42,30,52,04,06,124,126           Sylvania         19           Teknika         74           Telecaption         77,127           Teleview         32,40,42,06           Jose         32,40,42,06           Jose         39,42,44,126           Stargate         32,40,63,44,42,30,52,04,06,124,126           Sylvania         19           Teknika         74           Teleview         32,40,42,06

## Magnavox/Uniden Sony .. Due to changes in infra-red commands used by manufacturers, some brands have

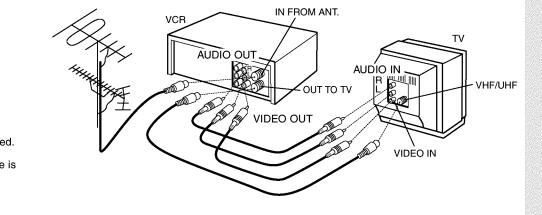
several codes. If your unit does not respond to the first code, please try the next one Some TV, Cable Box and DSS Box brands require you to turn on the power manually.

Panasonic RCA ......

### **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.



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

### **MONO broadcast** view anv scrambled Normal monaural sound broadcast

You Can

You Canno

channels.

You Canno

other than

the one

selected for

any type of

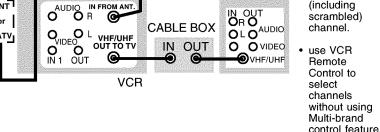
recording.

a channel

unless vou

select it at

the cable



# ■ Connect With Two Cable Boxes O L VHF/UHF

CABLE BO

TUO NI

or 2-Way Splitter

OUT 1 OUT 2

■ With a Cable Box (VCR → Cable Box)

You Can • record and view • view channel both scrambled and unscrambled channels if additional equipment is added. This connection recording of requires: two converter boxes, an A/B switch, and a 2-

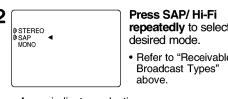
- 3 -

# Audio Mode for Recording

Instruction book.

Connection

1 Press SAP/ Hi-Fi to display audio mode. 1 Start playback. (Display disappears after 5 seconds.)



· Arrow indicates selection.

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.

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

will playback in monaural sound.

### See p. 5 of "Basic Operations" 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 "k" mark while the selected audio mode is

Make the Audio/Video Connection as shown on page 3

Receivable Broadcast Types

MTS Stereo and SAP broadcast

Select STEREO or SAP audio mode.

To display the broadcast signal being received,

Multi-channel Television Sound Stereo (main language)

and Secondary Audio Program (sub language)

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

broadcasts are being received simultaneously.

indicated with an arrow

MTS Stereo broadcast

Select STEREO audio mode.

press DISPLAY\*

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

Audio Mode for Playback



selection.

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

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

- 4 -

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

repeatedly to select desired mode. Select "HIFI(L/R)" or "HIFI(L)" or "HIFI(R)" to listen t stereo recordinas ir stereo sound.

Press SAP/ Hi-Fi

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.

# REW 12:30AM CH 02 Press CA/ZERO in

ZERO SEARCH.

stop at the last point the Counter was set to 0:00:00.

Press RESET

COUNTER at desired

position to reset to

Tape Operation

COMMERCIAL -- ADVANCE \* marks start and end points o commercials within recordings over 15 minutes long. The VCR automatically advances through marked commercials at high speed. Or, you may set 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**®

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

to display MENU.

C/A and display SET UP

COMMERCIAL ADV.

to set "ON" or "OFF

· When timer is used to

record two consecutive

shows (same channel)

each show separately.

greater accuracy can be

obtained by programming

PYCR C/A CLOCK CH Press ACTION\*

2 VCR FC/A CLOCK CH SET UP COMMERCIAL ADV. C/A RECORD SON C/A and display SET C/A PLAYBACK SAUTO COMMEDICIAL ADV

3 VCR C/A CLOCK CH SET UP COMMERCIAL ADV. C/A RECORD ON C/A PLAYBACK : AUTO

Touch recordings are marked automatically.

When STOP is pressed during normal recording

"NOW MARKING COMMERCIALS" appears

o) 2 key (LATER) > to mark after power is

turned off. (If tape is rewound and another

ACTION (CANCEL) - marking is canceled

How fast does the VCR advance through

Are commercials still recorded on the tape in

Does the VCR advance through commercia

the end of the tape, or rewind to the beginning?

Can I play my cowwercus -- apprender recordings i

Does the marking process interfere with other

What happens if I cancel the marking in

roarammed recordinas?

each time I playback tapes which were

es commercial... ADVANCE work in all recording

case I choose to view them sometime?

a) 1 key (NOW) - to mark now

IDIOMA/LANGUE : ENGL VCR' S OUTPUT CH :3

VCR Plus+ System Programming after a recording is made and marks start and end points of all detected commercial blocks. 1 Press PROG/VCR+ button to display PROGRAM. After marking, the tape is returned to end of ecording. Commercials are not erased. PWCR Plus+ | PROG. | LIST | Press ◀ ▶ to select

NTER PLUSCODE NUMBER | display VCR Plus+ screen. USING 0-9 KEYS VCR Plus+ PROG. LIST Press NUMBER keys ENTER PLUSCODE NUMBER to enter PlusCode number and press PROG/VCR+ button

record frequency and

Press ▲▼ to change

Press PROG/VCR+

Press PROG/VCR+

button again to exit

Press ADD/DLT

to delete the prograr

button to end program.

press PROG/VCR+

button to set.

 If the PlusCode number entered To Make Corrections begins with "0," skip press ◀ repeatedly SET UP, and press ▶ to to delete number, the step 4 will not appear. repeat step 3. VCR Plus+ PROG. LIST Press ▲▼ to select (MON~FRI), or WEEKLY

enter number, press to set, **press** ▲▼ to Repeat step 3 until list SAT 2:20P 3:20P 02 Leave line blank if SELECT RECORD SPEED station is not received SELECT: ▲ ▼ SET: ► END : PROG or if GUIDE and RECEIVE CHs are the

Timer Recording Using VCR Plus+® System |

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

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

adcast/ 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

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

same

scroll up/down

is complete

4 Press ACTION twice to end setup.

VCR Plus+ System is ...

VCR Plus+ System Channel Setup

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

GUIDE) which includes the assigned VCR Plus+

3 VCRIC/A CLOCK CHANNEL Press ► to move cursor

You'll need a local TV channel listing (e.g. TV

TVCRIC/A CLOCK CHANNEL Press ACTION ANTENNA: CABLE

2 VCR C/A CLOCK PCHANNEL Press AV

UIDE CH RECEIVE CH

VCR C/A CLOCK CHANNEL

CLEAR :ADD/DLT SELECT: ▲ ▼ SET: ► EXIT :ACTION

nannel Setup...

WEAK SIGNAL DISPLAY: CABLE/DSS BOX SET UP VCR Plus+ CH SET UP

Equipped with dbx®-TV Noise

reproduction. dbx®-TV Noise

Reduction is required for good

stereo separation and audio

trademark, and is licensed by

idelity. dbx° is a registered

dbx® Technology Licensing.

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

Reduction for true MTS

number found in TV GUIDE and selected newspaper TV listings.

ocal channel number (RECEIVE CH) for each GUIDE CH number.

to display menu, and

to select CHANNEL

to select VCR Plus+ CH

to right, **press ▲**▼ to

Press ◀ ▶

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

• program (e.g. sports event) may run over set stop time. • Do not overlap program times. See "Important for DSS/Cable Box Users" left. See page 6 of "Basic Operations" book to: Make each entry within 1 minute or VCR cancel a timer recording in progress.

 review, replace, or clear program contents Once VCR Plus+ channel setup is done, Important for DSS/Cable Box Users channels stay in memory. If there's a power When recording via DSS, the receiver must be left on. When recording via cable or antenna,

outage, channel setup may be lost. Please do channel setup again. Obtain unlisted PlusCode numbers by When recording via a cable box, leave box on

Zero Search

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

To quickly return to a specified tape location.

1 Press DISPLAY during play to display

("TIMER" lights on Multi Function Display.

## **Tape Operation**

## Repeat Play

DSS receiver must be off.

and tuned to channel to be recorded.

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

PRESAT PLAY SOFE MARNING ON REPEAT PLAY and

REPEAT PLAY and press ► to set ON or SELECT : A SET: ON: Play repeats at tape end or if unrecorded portion

3 Continue to record, playback, etc.

4 Press STOP

Stop mode to start

Unit will go into FF

or REW mode and

 If a timer recording is scheduled for the middle of the night, please be aware that the VCR will make some nois
as it rewinds and fast forwards the tape while marking commercials. COMMERCIAL ADVANCE\* and MOVIE ADVANCE\* are registered trademarks of SRT, Inc. A Jerry Iggulden 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

What if part of my program is advanced through Please see the 3rd note on top of this page.

Tape Operation

MOVIE >> ADVANCE® Playback MOVIE ADVANCE\* helps you locate certain parts of To Search for Preview. You can override the operation of he feature works in two ways.

MOVIE" ADVANCE" SEARCH FOR PREVIEWS

review. While the tape is reversing back, if

MOVIE" ADVANCE" will begin searching for the

preview, if you see the start of a preview which

ou wish to watch, press SEARCH/ M/A SKIF

and MOVIE ADVANCE will immediately reve

next preview. While searching for the next

back to the start of that preview, instead of

searching further past the preview start poin

SEARCH/ M/A SKIP to advance to the next

review, long commercial or the start of the

· If you want to playback, press PLAY

Start next preview searching.

Press SEARCH/ M/A SKIP.

To cancel, press STOP.

When a preview is detected, VCR

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

Once the VCR is playing a preview, press

1 Start preview searching.

will start playback.

SEARCH/ M/A SKIP is pressed,

· You can skip from one preview to the next mode by pressing SEARCH/ M/A SKIP during MOVIE "ADVANCE" works only on tapes recorded in tape searching. MOVIE -- ADVANCE works by SP speed with the record tab removed. searching the tape past each preview and the reversing back to the start of the detected

Insert a tape without record tab Press SEARCH/ M/A SEARCH INDEX PROG. END MOVIE SKIP to display

You can go to the beginning of the movie

ENTER INDEX NUMBER :1 USING 1-9 KEYS SEARCH. Press SEARCH/ M/A SEARCH INDEX PROG. END MOVIE SKIP twice to select GO TO START MOVIE MOVIE and press AV to select GO TO START MOVIE or GO EXIT : SEARCH M/A SKIP TO PREVIEW.

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

Select "GO TO START MOVIE," if you want to

go to "To Search for Preview" at right. Press FF to start SEARCH INDEX PROG. END MOVIE searching.

SEARCHING FOR START OF MOVIE • To cancel, press STOP CANCEL :STOP When the movie is found...

Press PLAY to start

• To cancel, press

playback.

**ON:** Timer recording, VCR Plus+ System, and One **4** Press ACTION again to return to normal screen.

COMMERCIAL >> ADVANCE Playback

to display MENU.

COMMERCIAL ADV.

CAR INCORPORATION COMMERCIAL ADV.

Press ◀▶ to select C/A
and display SET UP
COMMERCIAL ADV.

Press To select C/A
up commercial adv.
a record on
PLAYBACK and press To set "ALITO" or

"MANUAL".

marked commercial blocks recorded on

commercials only when CA/ZERO is

the end mark of a commercial block is

pressed. Playback will resume when

portion is detected, or after 8 minutes.

found, or a new recording or blank

the tape and then resume playback.

AUTO: VCR will automatically advance through

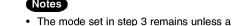
MANUAL: VCR will advance through

to set "AUTO" or

played back so that commercial blocks are

Press ACTION
REPEAT PLAY OFF

advanced through automatically or manually.



power outage occurs in which case the factory setting will be restored. If playback is started in the middle of a

commercial, only a single commercial is

when opting not to use this feature.

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

shown, or a single commercial is longer than minute, a commercial may not be skipped. Press FF to quickly advance through the Part of a recorded program may be skipped

recording is started before power is turned off, over if the program portion between commercials is less than one minute or there are frequent dark and guiet scenes in the program. To correct, press PLAY during the skip, rewind tape to just prior to where skipping

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

Yes, By setting the C/A PLAYBACK to MANUAL, see top of this

page, you can view or advance through commercials as desired

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

the VCR should advance through commercials each time the tape is

WHERCH -- ADMINIST VCRs. but commercials will not be advanced the

No. If the interval between 2 or more timer programs is not sufficien

to mark the recording, marking will be done after all recordings are complete and the power goes off.

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

Yes, commercial -- ADVANCE\* works in SP, LP, and SLP

Yes, commercial marked recordings will play in non-

OFF: The VCR will not mark commercials. Select when editing or dubbing a tape, or started, then press PLAY again for normal playback. When the end of the commercials is

timer recordings can be performed

**4** Press ACTION again to return to normal screen. detected, auto advance will resume.

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

After marking commercials, does the VCR stop at The tape stops at the end of the recording so that any addition

· Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all

SEARCH MOVIE

THE MOVIE IS READY

CANCEL :STOP

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

### **Index Search** Program End Search Press SEARCH/ M/A Locates end point of recording for continuity SEARCH PROG. END MOVIE SKIP to display ENTER INDEX NUMBER :1 USING 1-9 KEYS 1 Press SEARCH/ M/A SKIP twice to SEARCH in Stop or Play mode, and then press

display SEARCH in Stop or Play mode NUMBER kevs to select Press FF on the recording number. · To calculate number, PROGRAM END SEARCH. Press FF or REW on NEXT :SEARCH M/A SKIP EXIT :STOP To cancel, press the remote to star STOP or PLAY

Examples of Program End Search Play begins at search

INDEX SEARCH end. To search forward or back 1 index. **press** FF or REW on the remote or VCR while the current tape position Press SEARCH button FORWARD SEARCH :FF REVERSE SEARCH :REW screen left is displayed (10 sec.). To cancel, press

Program 1 BLANK Program 2 BLANK

Fig. 3 the current tape position

■ To Calculate Index Number

STOP or PLAY.

see below.

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 1 2 3 4 5 6 7

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.

Important:

 If Program End Search is started very close If a remote control button does not work when pressed

- 2 -

**DSS Brand Code Numbers** 

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

to an index mark, that mark may be skipped

BLANK area. 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.

seconds in