

Omniviaion WS

Panasonic

Video Cassette Recorder Operating Instructions Model No. PV-V4621



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



VCR Plus+, ALLSET and PlusCoole are registered trademarks of Gernstar Development Corporation. The VCR Plus+ system is manufactured under ficense from Gernstar 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.)

LSQT0368A

Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION

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

2 POLARIZED OR GROUNDING PLUG

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

POLARIZED PLUG CAUTION:

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

GROUNDING PLUG CAUTION:

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

3 POWERCORD

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

4 DONOT BLOCK VENTILATION HOLES

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

 Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.

 Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDENTEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or regulator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

6 TO AVOID PERSONAL INJURY

 Do not place unsecured equipment on a sloping surface.

 Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

 Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

OUTDOOR ANTENNAINSTALLATION

SAFE ANTENNA AND CABLE CONNECTION

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

and voltage surges. Section 810 of the National Electrical Code, ANS/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting

of the mast and support of the lead-in wire structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors olcation of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

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

USING THE VIDEO UNIT

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

KEEPTHIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

3 DURING ANELECTRICAL STORM

During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water. DO NOT OPERATE
 if liquid has been spilled into the unit. Immediately unplug
 the unit, and have it inspected by a service technician.
 Fire and shock hazards can result from electrical shorts
 caused by liquid contact inside.
- Never drop or push any object through openings in the unit.
 Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

5 USING ACCESSORIES

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

6 CLEANING THE UNIT

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

SERVICE

DO NOT SERVICE THIS PRODUCT YOURSELF

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

2 IFREPLACEMENT PARTS ARE REQUIRED

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

3 HAVETHESERVICETECHNICIAN PERFORMASAFETY CHECK After any service or repairs to the unit, request the service technician to conduct a through safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.

Safety Precautions

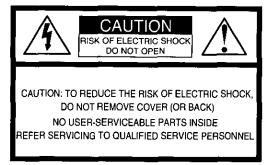
Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION: To prevent electric shock, match wide blade of plug to wide

slot, fully insert.

Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.





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



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

Note to CABLE system installer:

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

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

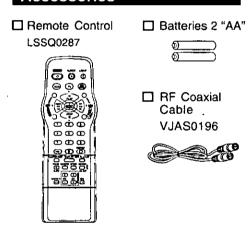
Before Using

Congratulations

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

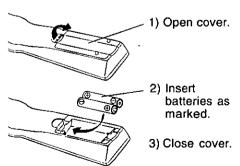
| Date of Purchase Dealer Purchased | From |
|--|------|
| Dealer Address Dealer Phone No. | |
| Model No Serial No | |

Accessories



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

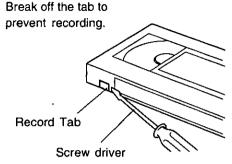
Loading the Batteries

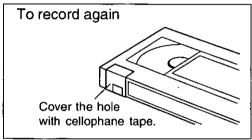


□ Battery replacement caution

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

Prevent Accidental Tape Erasure





Record/Playback Time

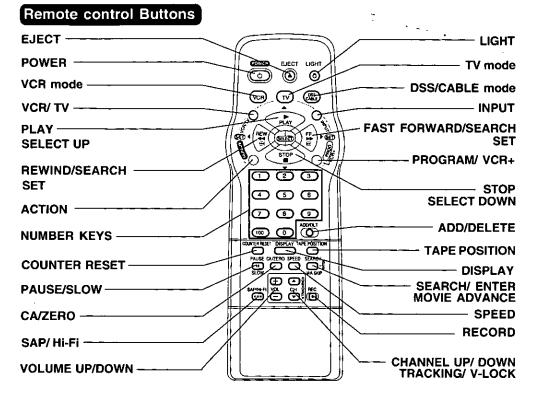
Only use tapes with the WHS mark in this unit.

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

Table of Contents

| Improved the A Cofe annual and Dura services | |
|--|-------------------------------|
| Important Safeguards and Precautions 2,3 Accessories 4 Loading the Batteries 4 Prevent Accidental Tape Erasure 4 Record/ Playback Time 4 Location of Controls 6,7 Initial Setup for ANT./ Cable-VCR-TV Connection 8,9 Initial Setup for DSS/ Cable Box-VCR-TV Connection 10,11 | Initial Setup (Connection) |
| Reset Language, Channels, Clock, VCR's Output Channel 12,13 Playback a Tape | Basic Operation |
| Timer Recording | Timer Recording |
| Multi-Brand Control Feature | Advanced Operation |
| VCR & Cassette Information | For Your Information |

Location of Controls



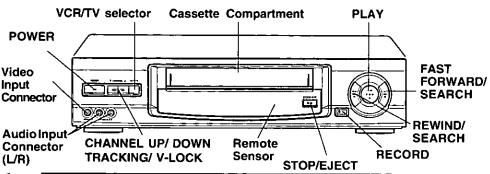
Light Tower Universal Remote Control

Light button: When LIGHT is pressed, available buttons in the selected mode light up and the selected mode button (TV,VCR or DSS CABLE) flashes for 5 seconds. If no button is pressed, light goes out in 5 seconds to conserve batteries. Also, by holding down a button, you can confirm the selected mode (mode button will flash) in the dark.

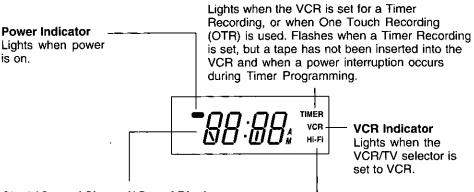
EJECT button: Press to eject tape from VCR. If EJECT is pressed during record,

VCR will not respond.

Front View of the VCR



Multi Function Display



Timer Indicator

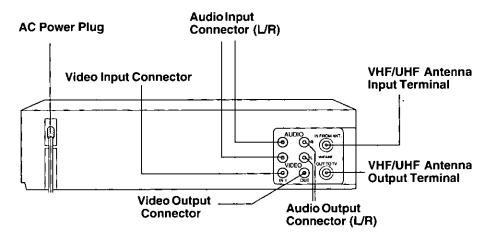
Clock/ Status/ Channel/ Speed Display

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

Hi-Fi Indicator

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

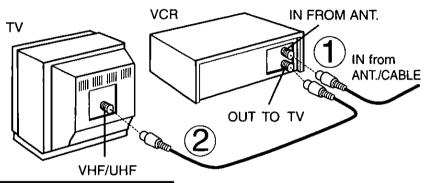
Rear View of the VCR



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

How to Connect

- Connect the Cable from Antenna/Cable to the IN FROM ANT. terminal on VCR.
- 2 Connect the OUT TO TV terminal on the rear of VCR to the ANT. IN terminal on TV using the RF Cable (included accessory).



How to do Initial Setup

Press VCR* button for VCR mode. Turn the TV on and set it to channel 3.

Turn VCR on. When VCR is turned on the first time, SELECT LANGUAGE screen appears.

SELECT LANGUAGE

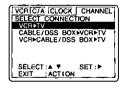
PRESS CH &: ENGLISH
OPRIMIR CH V: ESPANOL
APP. VCRVTV: FRANÇAIS

TO CHANGE VCR'S OUTPUT
CH, PRESS ACTION KEY,

- If screen does not appear, check connection between VCR and TV and, if TV is tuned to channel 3, try switching it to channel 4.
- When you want to change the output channel of VCR, please refer to VCR's Output Channel on page 13.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 9.

Press CH▲ to select English. or Press CH▼ to select Spanish.

Press VCR/TV key to select French. When one of above keys is pressed, SELECT CONNECTION screen is displayed in the selected language.



Press ▲ ▼ to select connection "VCR►TV" and press ► to set. CHANNEL/CLOCK AUTO SET screen appears.



WARNING -

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

Press CHA Key to start Channel/Clock Auto Set operation. Settings are performed automatically. If the setup is completed, the following screen is displayed.



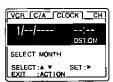
If "Auto Clock Set is Incomplete" screen appears, set the clock using MANUAL CLOCK SET procedure shown below.



Manual Clock Set

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

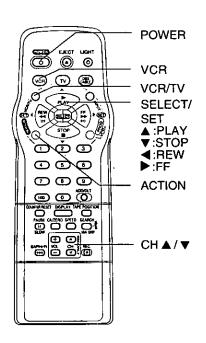
Press ACTION Key on the Remote to display CLOCK Menu screen.



Press ▲ ▼ to select the month and ► to set. In the same manner, select and set the date, year, time, and DST (daylight saving time).



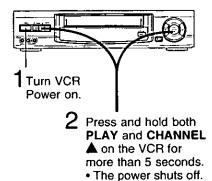
Press ACTION Key twice to start CLOCK and exit.



Reset All VCR Memory Functions

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

 Make sure a tape is not inserted in the VCR.

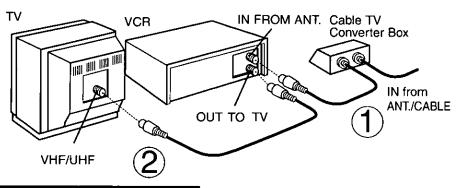


3 Do "Initial Setup" on page 8.

Initial Setup for DSS/Cable Box-VCR-TV Connection

How to Connect

- Connect the OUT Jack on your cable box to the IN FROM ANT. terminal on the VCR with an RF cable.
- 2 Connect the OUT TO TV terminal on the rear of VCR to the ANT. IN terminal on TV using the RF Cable (included accessory).



How to do Initial Setup

- Press VCR* button for VCR mode. Turn the TV on and set it to channel 3.
- Turn VCR on.
 When VCR is turned on the first time, SELECT LANGUAGE screen appears.

SELECT LANGUAGE

PRESS CH ▲: ENGLISH
OPRIMIR CH ▼: ESPANOL
APP. VCR/TV: FRANÇAIS

TO CHANGE VCR'S OUTPUT
CH, PRESS ACTION KEY.

- If screen does not appear, check connection between VCR and TV and, if TV is tuned to channel 3, try switching it to channel 4.
- When you want to change the output channel of VCR, please refer to VCR's Output Channel on page 13.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 9.

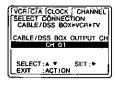
WARNING -

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

Press CH▲ to select English.
or
Press CH▼ to select Spanish.
or
Press VCR/TV key to select French.
When one of above keys is pressed,
SELECT CONNECTION screen is
displayed in the selected language.



Press ▲ ▼ to select "CABLE/DSS BOX▶VCR▶TV" connection and press ▶ to set.



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



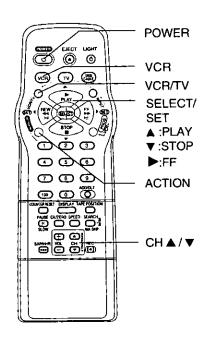
Turn on your cable box and set it to your Public Broadcasting Station (PBS) channel in your time zone. If you use a DSS receiver, it must be turned off.

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



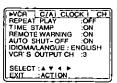
If "Auto Clock Set is Incomplete" screen appears, set the clock using MANUAL CLOCK SET procedures shown on page 9.





Reset Language, Channels, Clock,

1



Press ACTION*

to display menu.

2

Language

 Press ▲▼ to select language item.



2) Press ▶ repeatedly.



For English



For Spanish

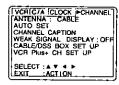


For French

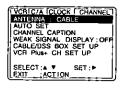
Press ACTION to exit.

Channels

 Press ◀► to select CHANNEL.



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



- Press ▲▼ to select "AUTO SET," then press ►.
- If you use a cable box, set it to the PBS channel in your time zone.

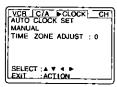


(This screen appears only when auto clock is set.)

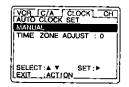
- 4) Press CH ▲.
- After Channel Auto Set is finished, Clock Auto Set will be performed.

Clock

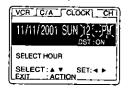
 Press ◀▶ to select CLOCK.



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



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



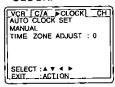
- Press ▲▼ and ◀► to select and set the date, time, and DST (Daylight Saving Time).
- Press ACTION twice to start the clock and exit this mode.

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

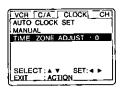
button again.

(Only when Auto Clock is set.)

 Press ◀ ▶ to select CLOCK.



Press ▲▼ to select TIME ZONE ADJUST

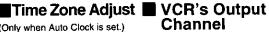


and press

or

to subtract or add hour(s) as necessary.

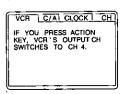
- 3) Press ACTION.
- 4) Press POWER off to perform AUTO CLOCK SET.
- TIME ZONE ADJUST returns to "0" if clock is set manually.



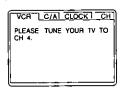
1) Press ▲▼ to select VCR'S OUTPUT CH.



Press ▶.



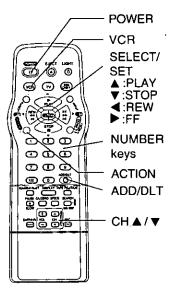
Press ACTION.



After 3 seconds



 To Make Corrections. repeat step 1) \sim 3).



Add or Delete a Channel

To add channel:

Select channel with number keys and press ADD/DLT.

CHANNEL OB ADDED

To delete channel:

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

CHANNEL 08 DELETED

DST (Daylight Saving Time)

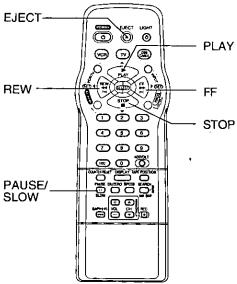
VCR automatically adjusts clock for DST. (Page 9.)

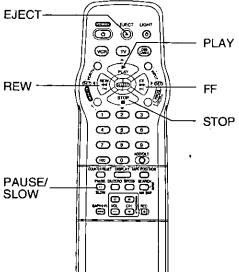
Spring (First Sunday in April) DST:ON--> Sets clock ahead one hour.

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

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

Playback a Tape





Playback using VCR controls Insert a tape. Press PLAY. Multi Function Display Press STOP/EJECT to stop and/ or eject tape.

Ready Check List

All connections are made (pg. 8, 10, 24). TV and VCR are plugged in.

☐ TV is on and tuned to CH3, 4, or VIDEO. ☐ Remote is in VCR mode. (Press VCR)

Insert a tape,

 VCR power comes on. "VCR" lights on Multi Function Display.

Press PLAY* to play tape.

If tape has no rec. tab (pg. 4), auto play begins.

Special Features During Play

Forward/ Reverse scene search

--> Press FF or REW.

--> Press again or PLAY to release.

Still (Freeze) picture

--> Press PAUSE/SLOW.

--> Press PLAY to release.

Frame by Frame picture

--> Press PAUSE/SLOW in Still mode.

--> Press PLAY to release.

Slow Motion picture

--> Hold down PAUSE/SLOW in Still mode.

--> Press PLAY to release.

Notes

- These features work best in SP or SLP mode
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on page 37.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

Press STOP to stop tape.

Rapid Rewind/FF

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

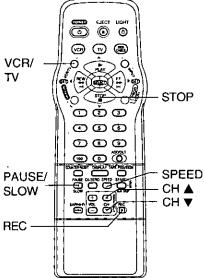
> · Rewind your tape in approximately one minute when using a T-120 tape.

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

Note

Remove loose or peeling labels from tapes to prevent tape iam.







Ready Check List

'Important:

- All connections are made (pg. 8, 10, 24).
- TV and VCR are plugged in.
- TV is on and tuned to CH3, 4, or VIDEO.
- Remote is in VCR mode. (Press VCR)
- Insert a tape with rec. tab (pg. 4).
 - VCR power comes on. "VCR" lights on Multi Function Display.
- Press CH ▲▼, or number keys to select channel.
 - For "LINE" input, see pg. 36.
 - . For channels over 100, press 100 key then press the remaining 2 digits.
- Press SPEED to select record speed (pg. 4).

SP = Standard Play LP = Long Play SLP = Super Long Play

- Speedappears on-screen and on Multi Function Display.
- **Press REC**

to start record.

- To edit out unwanted scenes, press PAUSE/ SLOW to pause, and again to resume recording.
- **Press STOP** to stop record.
- One Touch Recording (record in progress),
 - VCR shuts off after preset record length.
 - --> each press of REC adds 30 min. to record length up to 4 hours.
- Record one station, watch another,
 - --> press VCR/TV ("VCR" goes out on Multi-Function Display),
 - --> select channels at TV (recording continues).

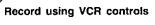
Note

- · Watching one channel and recording another is NOT possible when using a Cable Box or a Satellite Receiver.
- - · Other channels cannot be viewed during recordina.
 - --> press VCR/TV ("VCR" lights on Multi Function Display),
 - --> select channels at VCR.

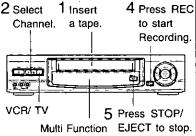
Select channels at VCR.

Note

 After 5 min. in Pause mode, VCR stops to protect tape and video head.

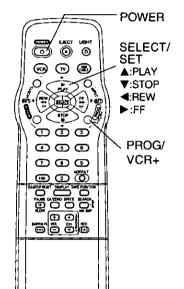


Display



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

Timer Recording



Example

Today -

Ready Check List

- All connections are made (pg. 8, 10, 24).
- TV and VCR plugged in and turned on.
- VCR/TV selector set to "VCR."
- ☐ Clock set correctly.
- ☐ Tape has rec. tab (pg. 4). ☐ Remote is in VCR mode. (Press VCR)
- Press PROG/VCR+* button to display PROGRAM.



Press ▼

to display Program screen.

3

(SAT)



- 1) To set record DATE, press ▲▼ to select: 1~31= one time, or DAILY= MON~ FRI, or WEEKLY= same time each week
- and press ▶ to set.
 See selection order below left.
- 2) To set remaining items, press ▲▼ to select and press ▶ to set START/STOP times, CH(channel) or LINE input (pg.36), and tape speed (SP, LP, SLP).

Press PROG/VCR+ button to end program.

Notes

- If you are using a Cable Box, VCR Timer Programming Channel(Step 3) must be set to the Cable Box output channel AND your Cable Box must be manually set to the desired channel. The Cable Box power left on.
- If a power interruption occurs while programming the timer, the timer program(s) may be canceled.
 If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please reenter the timer programs.

SELECT▲ / ▼ Selection Order DAILY

WEEKLY ____WEEKLY ____WEEKLY

(MON)

To Enter More Programs, press ▲▼ to select and press ► to set an unused program number and repeat step 3.

Or

Press PROG/VCR+ button again to exit.

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

Review, Replace or Clear Program Contents:

(Recording is not in progress)

1

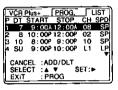


- 1) Press PROG/VCR+ button.
- 2) Press ◀► to select LIST:

To cancel a Timer Recording in progress...

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

2



Press ▲▼ to select number.

3 To Replace program...



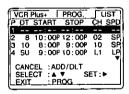
1) Press▶

to display.

Repeat Step 3 (pg.16) to set new programs.

or

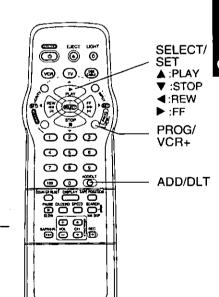
To Clear program...



Press ADD/DLT.

4 Press PROG/VCR+ button to end the program.

 If there are set programs, press POWER off to set timer.



Important notes when using a DSS receiver

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

Timer Recording Using VCR Plus+® System

Auto VCR Plus+ System Channel Setup (Part 1)

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

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

PYCR | C/A| CLOCK) CHI
REPEAT PLAY OFF
TIME STAMPHING ON
REMOTE WARNING ON
REMOTE WARNING ON
REMOTE WARNING
FOR ON
REMOTE WARNING
FOR ON
REMOTE WARNING
FOR ON
REMOTE STAMPHING
SELECT: A Y 4

EXIT __ACTION

Press ACTION* to display MENU.

VCR Plus+ System is ... a feature that allows you to

a feature that allows you to set most items of a timer recording by simply entering a special code number (PlusCode programming number) found in TV GUIDE and selected newspaper TV listings.

Important Note

 "Initial Setup" on pages 8-11 must be completed before "Auto VCR Plus+ System Channel Setup" can be done. If any part of setup is incomplete, a warning screen appears.

PERMIT ACTION

Press ◀► to select CHANNEL.

| Vericia Iclox [Channel Antenna": Cable
Antenna": Cable
Antenna": Cable
Antenna": Cable
Antenna": Cable
Antenna": Cable
Weak Signal, Display off
Cabledos Box Set up
Vor Plus Gh Set up

Select: 4 * Set :>
EXT __ACTION_

Press ▲▼ to select VCR Plus+ CH SET UP and press ▶ to display.

4. SELECT: A V SET:

Press ▲▼ to select AUTO SET and press ▶ to set.

VCRICTA CLOCK CHANNEL

PLEASE ENTER ZIP CODE

ZIP CODE:

SELECT : A ▼ SET:

END ::ACTION

Press ▲▼ ◀►
to enter Zip Code and
enter each number.
Press ► or ACTION
to set.

FIGHT NOW EVERY NIGHT NOW EVERY NIGHT EVERY NIGHT EVERY NIGHT EVERY MONDAY NIGHT EXECUTED TO SELECT A V SET :>

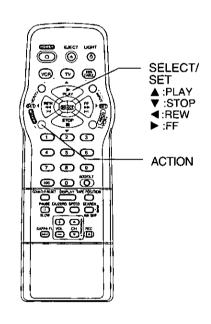
Press ▲▼ to select When to Update and press ► to set.

7



Press ACTION to end.

 Make sure to leave VCR off (overnight).



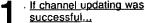
Notes

- Make each entry within 5 minutes or VCR will leave this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.
- If the start time for a timer recording comes up during Auto VCR Plus+ System Setup, the timer recording will have priority.

Auto VCR Plus+ System Channel Setup (Part 2)

Before you perform the following steps, you should have:

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



VCR PIUS+ CH SET

If VCR could not distinguish channel map...

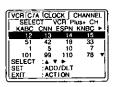


Press ACTION to exit this mode.

ACTION

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

2



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

3



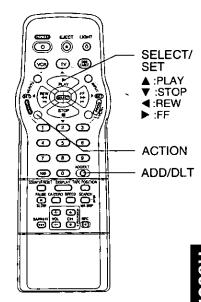
Press ACTION to end.

 Make sure to leave VCR off (overnight.)

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

Repeat these steps as necessary.

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



To Change or Update Auto VCR Plus+ System Channel Setup

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

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



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

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

Timer Recording Using VCR Plus+® System (continued)

Initial Setup.....

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

Channel Setup.....

Since PlusCode numbers assigned to channels (found in TV Guide and selected newspapers) may differ from channels in your viewing area, you'll need to enter your local TV channel number for each corresponding Guide Channel. If you perform the VCR+ Channel set up procedures shown below, you will be able to perform timer

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

Manual VCR Plus+ Channel Setup

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

FVCR C/A CLOCK CH
REPEAT PLAY : OFF
TIME STAMP : ON
REMOTE WARNING : ON
AUTO SHUT-OFF : ON
IDIOMALANGUE : ENGLISH
VCR'S OUTPUT CH : 3 SELECT : A V 4 P EXIT : ACTION

Press ACTION*

to display menu.

To complete step 5 of setup, do the following:

- Prepare a TV/Cable station line-up and channels they are received on. Also, the Guide channel numbers assigned to your stations (found in TV Guide and selected newspapers.)
- Make a 3-column chart (see sample). Left column --> all stations you receive. Middle column --> each station's assigned Guide channel number from TV Guide, etc.

Right column --> channel number on which your TV receives the station.

VCRIC/A CLOCK PCHANNEL
ANTENNA: CABLE
AUTO SET
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY; OFF
CABLEDOS BOX SET UP
VCR Plub+ CH SET UP SELECT : A V 4 P

Press **◄**▶

to select CHANNEL.



Press ▲▼

to select VCR Plus+ CHANNEL SETUP. and press ▶ to set.



Press ▲▼ to select MANUAL, and press ► to set.

SAMPLE ONLY

| Broadcast or Cable station name | Assigned Guide channel No. | Channel No. on which my TV receives the station. |
|------------------------------------|-------------------------------|--|
| HBO | 33 🔍 | 15 |
| Nickelodeon | 38 | 20 |
| CBS | 04 | 04 |
| FOX | 11 | |

VCRIC/A CLOCK CHANNEL GUIDE CH RECEIVE CH

VCRCOA CLOCK CHANNEL GUIDE CH RECEIVE CH CLEAR :ADD/DLT SELECT :A ▼ SET: ▼ LEXIT :ACTION

To enter VCR Plus+ channels.

press ▶ to move cursor to right, press ▲▼ to enter number, press ◀ to set, and press ▲▼ to scroll up/down.

 Repeat step 5 until list is complete.

To Make Corrections,

press ▲▼ and ► to move to error, then ▲▼ to change, or ADD/DLT to erase number.

Press ACTION twice to end setup.

VCR Plus+ System Programming

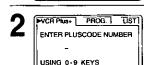
Ready Check List

Clock is set.

VCR Plus+ Setup is complete (see pages 18-20).



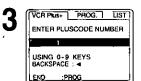
Press PROG/VCR+ button to display PROGRAM.



SELECT: A ▼ 4 ▶

Press **∢**▶

to select display VCR Plus+ screen.



Press number keys to enter PlusCode number and press PROG/VCR+ button to set.

 If the PlusCode number entered begins with "0," skip to step 5. Display in step 4 will not appear.



Press **▲**▼

to select ONCE, DAILY(MON~FRI), or WEEKLY record frequency and press PROG/VCR+ button to set.



Press ▲▼

to change category and record speed.

Press > to set.

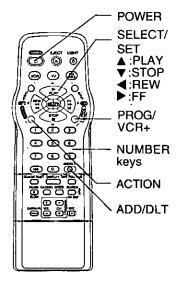
Press PROG/VCR+ button to end program.



Press PROG/VCR+ button again to exit.

 Press ADD/DLT to delete the program.

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



Do normal Timer Record if...

- PlusCode number is not listed for program.
- program (e.g. sports event) may run over set stop time.

See page 17 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.

Notes

- Do not overlap program times.
- PlusCode numbers cannot be used to program VCR to record DSS and cable box channels.
- Make each entry within 1 minutes or the VCR will exit setup mode.
- Once VCR Plus+ channel setup is done, channels stay in memory. If a power interruption occurs, VCR Plus+ channel setup may be lost. Please do VCR Plus+ channel setup again.
- Obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs about \$.95 per minute.

Multi-Brand Control Feature

Multi-Brand Control Setup

The Remote Control can be set to control some TV and Cable box/DSS functions.

Find your TV and Cable Box/DSS Receiver Brand Code Number on the following page.

Setup for TV control, -->hold down TV button,

-->enter code with number keys.

Setup for Cable or DSS control, -->hold down DSS/CABLE button, -->enter code with number keys.

 If code number is 100 or greater, -->press 100 key, then other digits. E.g., press 100 - 0 - 2 for 102.

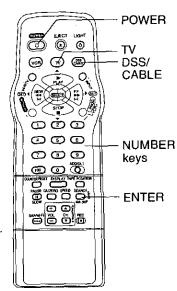
Confirm code entry.

-->press POWER to turn selected unit on or off.

See table below for controllable functions in each mode.

Notes

- · Repeat setup after remote battery replacement.
- Remote will not control every TV, cable box, or DSS made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.



Using Multi-Brand Control

After remote is set up, you can select VCR, TV, or DSS/ CABLE for the desired function.

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

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

Notes

- Not all functions listed may be controllable.
- In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing number keys for channel selection.

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

| Cable Box Brand Code Numbers | |
|--|---|
| Archer | Quest 05, 06 |
| Cabletenna 01, 44, 63, 91, 126 | Radio Shack 51, 44, 59, 75, 126 |
| Cableview 63, 44, 42, 30, 52, 04, 124, 126 | PCA 16, 17, 97, 109 |
| Century 51, 44, 59, 75, 126 | Realistic 51, 44, 59, 75, 126 |
| Citizen | Recoton 51, 44, 59, 75, 126 |
| Curtis 08, 09, 61, 53, 87 | Regal 14, 15, 28, 41, 102, 103, 104, 108, 130 |
| Diamond 01, 44, 63, 91, 126 | Regency 28, 130 |
| Drake 67 | Rembrandt01, 32, 39, 42, 44, 63, 126 |
| Eagle 13, 22, 58, 62, 20, 40, 26, 107 | Salora 68 |
| Eastern 28, 130 | Samsung 05, 32, 40, 42, 06 |
| GC Brand 63, 44, 42, 30, 52, 04, 124, 126 | Scientific Atlanta 08, 09, 61, 53, 87 |
| Gemini 04, 124 | Sheritech 27 |
| General Electric 57, 01 | Signal 26, 112 |
| General Instruments 01, 02, 03, 04, 34, 55, 83, 106, | SL Marx 32, 40, 42, 06, 43, 44, 52, 63, 126 |
| 65, 67, 68, 115, 117, 118, 124, 91 | Sprucer 16, 17, 97, 109 |
| Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130 | Standard Components 32, 39, 42, 44, 126 |
| Hitachi 31 | Stargate 32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126 |
| Jasco 04, 124 | Sylvania 19 |
| Jerrold 01, 02, 03, 04, 34, 55, 83, 106, | Teknika |
| 65, 67, 68, 115, 117, 118, 124, 91 | Telecaption 77, 127 |
| Macom 31 | Teleview 32, 40, 42, 06 |
| Magnavox 26, 112 | Texscan 18, 19 |
| Matsushita 16, 17, 97, 109 | Tocom |
| Movietime32, 39, 42, 44, 126, 38, 40 | Toshiba |
| NEC 38, 40, 32 | Uniden Satelite |
| NOVAVISION | Unika |
| NSC | Universal42, 43, 44, 52, 63, 126 |
| Oak | Videoway 07, 23, 50, 129 |
| Oak Sigma 46, 11, 129 | Vid Tech |
| Panasonic | Vidtek |
| Philips 07, 13, 20, 23, 24, 50, 128, 129 | Viewstar |
| Pioneer | Zenith 07, 23, 50, 129 |
| Pulsar 63, 44, 42, 30, 52, 04, 124, 126 | |
| | |

| DSS Brand Code Numbers | | | |
|---|----------|-----|----|
| Toshiba Hitachi/ Hughes Magnavox/ Uniden 1 Magnavox/ Uniden 2 | 93 94 | HCA | 97 |

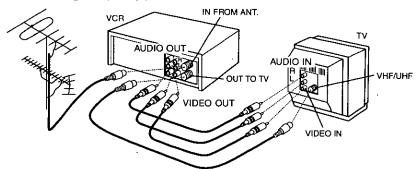
Important Notes

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

Advanced Connections

Audio/Video connection

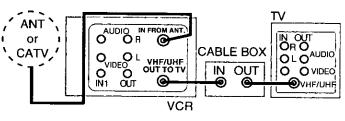
If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive higher quality picture and sound.



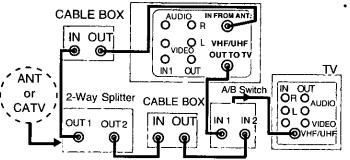
- Connect the VIDEO OUT terminal on the VCR to the VIDEO IN terminal of your TV.
- Connect the "L" and "R" AUDIO OUT terminals on the VCR to the "L" and "R" AUDIO IN terminals of your TV.
- 3 Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

VCR





Connect With Two Cable Boxes



You Can

- view any (including scrambled) channel.
- use VCR Remote Control to select channels without using Multi-brand control feature.

You Can You Cannot

record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two
 view channel other than the one selected for any type of recording.
 do a Timer recording of a channel unless.

converter boxes.

an A/B switch.

and a 2-way splitter.

recording of a channel unless you select it at the cable box.

You Cannot

 record scrambled channels.

MTS Broadcast/VHS Hi-Fi Stereo System

Connection

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

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

Receivable Broadcast Types

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

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

To display the broadcast signal being received, --> press DISPLAY.

MTS Stereo and SAP broadcast

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

MTS Stereo broadcast

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

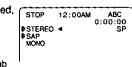
 If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.

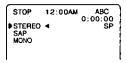
SAP broadcast

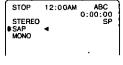
Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

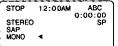
MONO broadcast

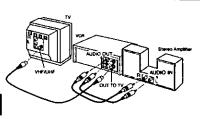
Normal monaural sound broadcast.

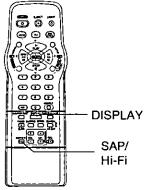












Equipped with dbx -TV Noise Reduction for true MTS reproduction. dbx -TV Noise Reduction is required for good stereo separation and audio fidelity. dbx is a registered trademark, and is licensed by dbx Technology Licensing.

Audio Mode for Recording

Press SAP/ HI-FI to display audio mode. (Display disappears after 5 seconds.)

2 STEREO SAP MONO

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

Arrow indicates selection.

• Refer to "Receivable Broadcast Types" above.

3 Do a recording. See page 15.

Audio Mode for Playback

Start playback. See page 14.

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

HIFT (L/R) *
HIFT (B)
HIFT (B)
NORMAL

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

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

Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an
 external stereo amp and speakers. (See top of this page.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

Tape Operation

COMMERCIAL -- ADVANCE®

COMMERCIAL -- ADVANCE* detects and marks the beginning and end points of commercials on your tape for recordings over 15 minutes in length. When COMMERCIAL -- ADVANCE* marked tape is played back, the VCR automatically advances through the commercial segments at high speed. You can also set this feature to Manual so as to have more control over the advance process. The effectiveness of this system can vary due to differences in the way television stations broadcast. See page 28 for answers to the most commonly asked questions about this feature.

COMMERCIAL -- ADVANCE Marking

When C/A RECORD: ON, VCR automatically rewinds the tape after a recording has been made and marks the beginning and end of any detected commercial blocks. After marking is done, the tape is returned to the end of recording. Commercials are not erased from the tape.

FVCR | C/A| CLOCK | CH|
REPEAT PLAY : OFF
TIME STAMP : ON
REMOTE WARNING : ON
AUTO SHUT-OFF ON
IDIOMALANGUE: ENGLISH
VCR'S OUTPUT CH :3

SELECT: A ▼ ↓ ▶
EXIT. : ACTION

Press ACTION* to display MENU.

VCA FC7A CLOCK CH SET UP COMMERCIAL ADV. C/A RECATO C/A PLAYBACK :AUTO

Press ◀▶

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

VCR CTA CLOCK CH SET UP COMMERCIAL ADV C/A REGED ON C/A PLAYBACK :AUTO

:ACTION

THE VCR IS WAITING TO MARK COMMERCIALS IN THE

: PRESS 1

PRESS 2

: PRESS ACTION

PROGRAM YOU RECORDED.

SET:▶

SELECT:▲ ▼

MARKING

CANCEL

NOW

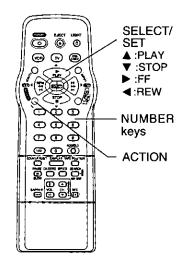
Press **▲▼**

to select C/A RECORD and press ▶ to set.

Ready Check List

- All connections are made.
- VCR is plugged in.
- TV is turned on and set to CH3, 4 or Video on TV.

One time Setup completed.



Note

 When using the timer to record two adjacent shows on the same channel, better accuracy can be obtained by programming each shows separately.

ON Timer, VCR Plus+ System, and One Touch recordings are marked automatically.

When STOP is pressed during normal recording, Select One of a)

or b) or c).

a) Press 1 key to mark the recording now.

"NOW MARKING COMMERCIALS" appears.
b) Press 2 key to mark the recording <u>later</u> (after the power has been turned off).

 If the tape is rewound and another recording started before the power is turned off, commercials may not be marked correctly.

c) Press ACTION to cancel the marking of this recording.

OFF The VCR will not mark commercials.

When you are editing or dubbing a tape, or when you do not wish to use this feature, OFF should be selected.

4

Press ACTION again

to return to normal screen.

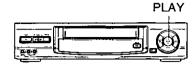
COMMERCIAL -- ADVANCE Playback

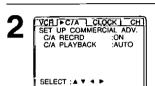
When playing back recording which have been marked using COMMERCIAL PARVANCE feature, you can either set VCR to automatically advance through marked commercial blocks, or set it so that commercials are only skipped on your command.





Press ACTION to display MENU.





ACTION

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

VCA CTA CLOCK CHSET UP COMMERCIAL ADV.
CTA RECRD ON
CTA PLAYBACK AUTO

SELECT: A V SET: P
EXIT :: ACTION

EXIT_

Press ▲▼ to select C/A PLAYBACK and press ► to set.

AUTO

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

MANUAL

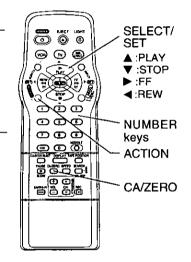
VCR will advance through commercials only when CA/ZERO is pressed. Playback will resume when the end mark of a commercial block is found, or a new recording or blank portion is detected, or after 8 minutes.

4

Press ACTION again to return to normal screen.

Notes

- The selection mode in step 3 remains set unless there is a power outage in which case the
 original factory setting will be restored.
- If playback is started in the middle of a commercial, only a single commercial is shown, or an individual commercial is longer than 1 minute, a commercial may not be skipped.
 Press FF to quickly advance through the commercial.
- 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 during the program. To view
 the portion of tape being incorrectly skipped, press PLAY while the VCR is skipping, reverse the
 tape to a point just prior to where the skipping began and press PLAY again. This time the group
 will not be automatically skipped. Automatic skipping will be re-enabled when the end of the
 marked group is detected.



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

Tape Operation (continued)

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

| The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds. Yes. The commercials are not marked until after the recording is finished. |
|---|
| |
| |
| Yes. By setting the C/A PLAYBACK to MANUAL, see page 27, you can view or advance through commercials as desired. |
| Yes. COMMERCIAL ADVANCE* works in SP, LP, and SLP. |
| Yes. As long as C/A PLAYBACK is set to AUTO, see page 27, the VCR should advance through commercials each time the tape is played back. |
| The tape stops at the end of the recording so that any additional timer recordings can be performed. |
| Yes. COMMERCIAL ADVANCE * marked recordings will play in non-COMMERCIAL ADVANCE * VCRs, but commercials will not be advanced through. |
| No. If the interval between 2 or more timer programs is not sufficient 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 long as the tape has not been ejected. |
| Please see the 3rd note on page 27. |
| |

Additional Notes:

- Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all commercials.
- If a timer recording is scheduled for the middle of the night, please be aware that the VCR will
 make some noise 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

MOVIE "ADVANCE"

MOVIE PADVANCE* helps you locate certain parts of prerecorded movies (rented or purchased). The feature works in two ways.

- You can go to the beginning of the movie.
- · You can skip from one preview to the next.

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

Insert a tape without record tab.

SEARCH

INDEX PROG. ENO MOVIE

ENTER INDEX NUMBER :1
USING 1-9 KEYS

FORWARD SEARCH:FF
REVERSE SEARCH:REW
NEXT :SEARCH M'A SKIP

STOP

EXIT

Press SEARCH/ M/A SKIP* to display SEARCH.

SEARCH
INDEX PROGEND MOVIE
GO TO START MOVIE
GO TO PREVIEW
SEARCH START: FF
SELECT : A V
EXIT : SEARCH MA SKIP

Press SEARCH/ M/A
SKIP twice to select
MOVIE and press

▲▼ to select GO
TO START MOVIE
or GO TO PREVIEW.

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.

--> go to "To Search for Preview" at right.

SEARCH
INDEX PROG.END MOVIE
SEARCHING FOR START
OF MOVIE

CANCEL :STOP

Press ▶

to start searching.

 To cancel, press STOP.

When the movie is found...

SEARCH | MOVIE | THE MOVIE IS READY | START : PLAY | CANCEL ::STOP

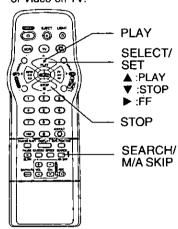
Press PLAY to start playback.

 To cancel, press STOP.

Ready Check List

- All connections are made.

 One time Setup completed.
- - TV is turned on and set to CH3, 4 or Video on TV.



To Search for Preview.

You can override the operation of MOME **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. White the tape is reversing back, if 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

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 movie (whichever is next).

Start preview searching.

- In step 3 at left, select Go To PREVIEW.
- 2) Press ►.
- If you want to playback, press PLAY.

When a preview is detected, VCR will start playback.

2 Start next preview searching. Press SEARCH/ M/A SKIP.

To cancel, press STOP.

Tape Operation (continued)

Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

Index Search

SEARCH
INDEX PROG.END MOVIE
ENTER INDEX NUMBER :1
USING 1-9 KEYS
FORWARD SEARCH FF
REVERSE SEARCH FRW
NEXT :SEARCH WA SKIP
EXIT - STOP

Press SEARCH/ M/A SKIP* to display SEARCH in Stop or Play mode.

2



Press number keys to select recording number.

 To calculate number, see below.

Press FF or REW to start search.

INDEX SEARCH

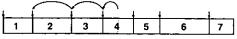
FORWARD SEARCH : FF
REVERSE SEARCH : REW

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

■ To Calculate Index Number

Example 1:

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



Example 2:

To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: I indicates start points of each recording.

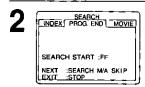
Note

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

Program End Search

Locates end point of recording for continuity.

Press SEARCH/ M/A SKIP twice to display SEARCH in Stop or Play mode.



Press FF to start PROGRAM END SEARCH.

Examples of Program End Search.

Fig. 1

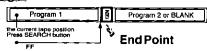
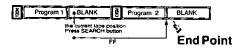
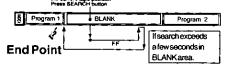


Fig. 2



<u>Fig. 3</u>

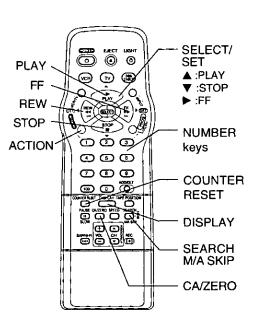


Upon locating end point,

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

Notes

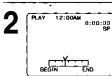
- If Program End Search is started very close to an index mark, that mark may be skipped over.
- To cancel, press PLAY or STOP.



Zero Search

To quickly return to a specified tape location.

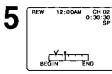
Press DISPLAY during play to display Counter.



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

3 Continue to record, playback etc.

4 Press Stop.



Press CA/ZERO in Stop mode to start ZERO SEARCH.

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

Note

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

Repeat Play

Set to playback a recording over and over.

Press ACTION to display menu.

2



Press ▲▼

to select REPEAT PLAY and **press** ▶ to set ON or OFF.

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

Press ACTION to return to normal screen.

Auto Operation Functions

Auto Play

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

■ Auto Rewind

Play
Manual Record
Fast Forward

--> Tape end, -->Rewind

Play Auto Eject

(Repeat Play must be off)

Play, -->Tape end, -->Rewind, -->Tape ejects if no record tab

Special VCR Features

Channel Caption

When set, station name, e.g. ABC, CBS, and channel number appear on-screen. Set up to 24 preset captions, and/or 10 manually created captions.

☐ You need a list of stations and the channel numbers you receive them on.

Preset Caption

PVCR C/A CLOCK CH REPEAT PLAY :OFF REMOTE WARNING ON AUTO SHUT OF IDIOMA/LANGUE : ENGLISH VCR'S OUTPUT CH SELECT : A ▼ ◀ ▶
EXIT : ACTION

Press ACTION* to display MENU.

VCR C/A CLOCK PCHANNEL ANTENNA : CABLE AUTO SET CHANNEL CAPTION WEAK SIGNAL DISPLAY: OFF CABLETOSS BOX SET UP VCH Plus+ CH SET UP SELECT : ▲ ▼ ◀ ₽ EXIT ACTION.

Press ◀▶ to select CHANNEL.

VCRIC/A CLOCK CHANNEL | | ANTENNA : CABLE AUTO SET CHANNEL CAPTION WEAK SIGNAL DISPLAY: OFF CABLE/OSS BOX SET UP SELECT: A ▼ EXIT : ACTION

Press ▲▼ to select CHANNEL CAPTION and press to set.

VCRICTA CLOCK CHANNEL PRESET CAPTION SELECT: ▲ ▼ SET:▶ EXIT___ACTION

Press ▲▼ to select PRESET CAPTION and press to set.

 To create your own captions, go to "Manual Caption" on page 33.

VCRIC/A ICLOCK CHANNEL 5 ABC CBS NBC PBS CNN CLEAR :ADD/DLT SELECT :A V S EXIT :ACTION

Assign preset captions. Press ▲▼ to highlight caption.

Press to move cursor to the right.

Press ▲▼ to select CH number.

Press ◀ to set.

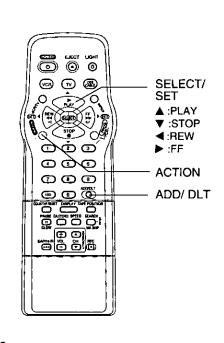
Repeat step 5 until the list is complete.

To make corrections,

SET: ◀

Press ▲▼ and ► to select the channel number, then press AV to change, or ADD/DLT to delete the number.

Press ACTION twice to end setup.



Manual Caption

Do "Preset Caption" steps 1~3 on page 32.



Press ▲▼
to select CHANNEL
CAPTION and
press ► to set.



Press ▲▼ to select CH NUMBER and press ▶ to move cursor to the right.

- Channels already set and channels deleted from Channel Memory are not displayed.
- You can set a total of ten channel captions.
- CH NUMBER CAPTION

CLEAR :ADD/DLT SELECT: A ▼ EXIT :ACTION Press ▲▼
to enter CAPTION and
press ◀ to set.

Characters change in following order.

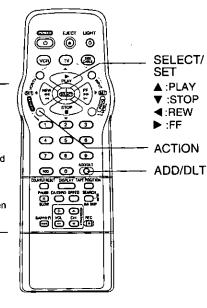
+9+---+2++1++0++/++!+---

Repeat steps 3 and 4 as desired.

To make corrections,

Press ◀▶ to move to the incorrect entry, then press ▲▼ to make correction. Or, press ADD/ DLT to clear the caption.

Press ACTION twice to end setup.



Special VCR Features (continued)

Time Stamp Feature

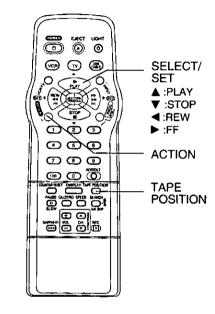
The VCR writes program data (see example below) about the first 10 seconds of every recording. The information is then displayed the first 10 seconds of playback.

Ready Check List

- Clock is set to correct time.
- ☐ Record tab in place. (See page 4.)

►VCR C/A CLOCK CH REPEAT PLAY : :OFF TIME STAMP : ON REMOTE WARNING : ON AUTO SHUT-OFF : ON IDIOMA/LANGE! ENGLISH VCR'S OUTPUT CH :3 SELECT : ▲ ▼ 4 ▶

Press ACTION* to display MENU.



PORT C/AI CLOCK CH REPEAT PLAY OFF IME STAMP CON REMOTE WARNING CON AUTO SHUT-OFF CON IDIOMALANGUE : ENGLISH VCR'S OUTPUT CH :3 SELECT: A V SET: * EXIT : ACTION

Press ▲▼
to select TIME STAMP
and press ► to set.

- When "OFF" is selected, the program data is written on the tape, but will not be displayed.
- Press ACTION again to return to normal screen.

<Time Stamp Example>



11/11/2001 SUN 12:00PM CH 08 ABC

Timer Recording

11/11/2001 SUN 12:00PM - 1:00PM CH 08 ABC MOVIE

When Clock is not set ...

--/----CH 08 ABC

Tape Position and Tape Status Feature

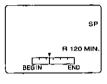
To find out the present tape position.

Tape position cannot be detected for VHS-C Cassette types and tapes of less than 60 minutes length.

Press TAPE POSITION to detect Tape Position.



 "DETECTING TAPE POSITION" 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.
- The remaining tape time (in minutes) is displayed according to the current tape speed.

Press TAPE POSITION to return to normal screen.

Note

This function cannot display exact amount of tape remaining for tapes over 120 minutes.

VCR Lock Feature

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



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



To turn off, repeat above.

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

Auto Shut-Off Feature

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

Press ACTION to display menu.



Press ▲▼
to select AUTO
SHUT-OFF and
press ▶ to set ON
or OFF.

Weak Signal Display ON/OFF Feature

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



Press ACTION to display menu.

DIOMATANGUE: ENGUSH
VOR'S OUTPUT CH :3

SELECT : A Y 4 N
EXIT : ACTION



Press ◀►
to select and display
CHANNEL,
press ▲▼
to select WEAK

to select WEAK
SIGNAL DISPLAY,
and press ▶ to set
ON or OFF.

 ON: Picture is displayed regardless of signal condition, and may not always be clearly visible.

OFF: Screen turns solid blue when signal is weak or non-existant.

- Selecting ON has no effect on connected equipment with blue back feature.
- 3 Press ACTION to return to normal screen.

Remote Warning ON/OFF Feature

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

1 Press ACTION to display menu.



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

OFF.

• If "OFF

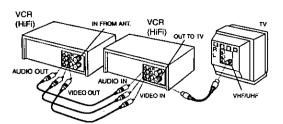
 If "OFF," remote warning will not appear if invalid key is pressed.

Press ACTION to return to normal screen.

3 Press ACTION to return to normal screen.

Copying Your Tapes (Dubbing)

Connection



VIDEO IN 2 L-AUDIO INZ-R Front of VCR

(Video In Terminal on the front of VCR is available)

- Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on Recording VCR. To monitor the dubbing, also connect a TV as shown.
- Connect "L" and "R" AUDIO OUT terminals on Playing VCR to "L" and "R" AUDIO IN terminals 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

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" below.)

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

Press STOP to stop dubbing.

To Monitor Dubbing on Your TV

- 1 Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).
- 2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

Selecting the Input Mode

Method 1: Press INPUT repeatedly.

Channel Number <--> LINE1 <--> LINE2

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

(CABLE) (TV) LINE2 ++ LINE1 ++ 125 or 69

Note

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

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

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

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

VCR & Cassette Information

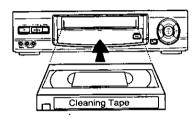
Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become cloqued.

Video Head Clog Sensor

During playback, this screen appears if clogging is detected. To remove screen, press PLAY on the remote or VCR.

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OF REFER TO MANUAL :PLAY



- · Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- · If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 40.)

Cleaning the VCR

Use a soft cloth or dusting attachment of a vacuum cleaner to remove dust from the ventilation holes on the back sides and bottom of the cabinet.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

Specifications

120 V AC, 60 Hz Power Source:

Power Consumption: PowerOn

Approx. 23 watts Power Off Approx. 3.0 watts

Video Signal: EIA Standard NTSC color

Video Recording System: 4 rotary heads helical

scanning system

Audio Track:

1 track (Normal)

2 channel (Hi-Fi Audio Sound)

Tuner:

Broadcast Channels: VHF2~13,UHF14~69 CABLE Channels:

Midband Athrough I (14~22)

Superband J through W (23~36) Hyperband AA~EEE (37~64) Lowband A-5~A-1 (95~99) Special CABLE channel 5 A (01)

Ultraband 65~94, 100~125 5°C~40°C (41°F~104°F)

Operating Temperature: Operating Humidity:

10%~75%

Weight:

2.7 kg (6.0 lbs).

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

16-15/16" (W) x 3-7/8" (H) x

9-9/16"(D)

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

Features for a Quality Picture

Digital Auto Picture

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

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to_reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise. Press CH (TRACKING)

▲ / ▼ buttons on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.



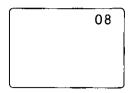




V-Lock Control (to reduce picture jitter) In Still mode, CH (TRACKING) ▲ / ▼ buttons operate as a V-Lock control.

On-Screen Displays (OSD)

Function & Channel Display



When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters.

Blank Tape/ No Video Signal Indication

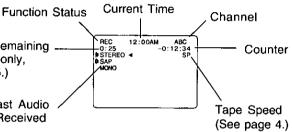
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 35) set to OFF, the TV screen will turn solid blue

VCR Status & Clock Display To display or remove overlav at right,

--> press DISPLAY.

Rec Time Remaining (OTR mode only, see page 15.)

> Broadcast Audio Being Received



Warning and Instruction Displays

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

| OSD | Caution | Pg | OSD | Caution | Pg |
|--|--|----------|--|---|----------------|
| NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY AGAIN | If no active channels are found for CHANNEL MEMORY | 8 | TO CANCEL TIMER REC PRESS POWER THEN STOP KEY | If you press POWER or STOP during a Timer Recording (visible in VCR mode only) | 16 |
| PLEASE SET CLOCK BY PRESSING ACTION KEY | If you attempt to set or review a Timer Recording and the Clock is not set | 16 | VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END :PLAY | If head cleaning becomes necessary while playing back a tape | 37 |
| TURN YCR OFF FOR TIMER RECORDING | After a Timer Program has been set | 16 | VCR LOCK ACTIVATED | If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode | 35 |
| CHECK CASSETTE RECORD TAB | If you press REC on the remote control or VCR, and a cassette is inserted with no record tab | 4 | REMOTE CONTROL IS SET TO CABLEZOSS MODE USE VCR : VCR KEY USE TV : TV KEY | If you press an invalid key on the remote while in CABLE/DSS mode | 22 23 35 |
| NO CASSETTE PLEASE INSERT A CASSETTE | If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted | 14 15 | REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS | If you press an invalid key on the remote while in TV mode | 22 23 35 |

Before Requesting Service

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

| Power | Correction |
|--|---|
| No power | Completely insert Power Plug into an AC outlet. |
| No power | Set POWER button to on. Make sure power source is active. |
| Recording & Playback | Correction |
| TV program cannot be recorded | Check connections between VCR, external antenna, and TV. |
| TV plogram carries of 10001000 | Check channel selections. Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.12]) Make sure cassette record tab is intact. (P.4) |
| Timer recording cannot be performed | Confirm that clock is set to current time and date. Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded. Set recording start/stop times correctly. (P.16) Make sure VCR POWER button is pressed off. (P.16) Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored. |
| There is no playback picture, or the playback picture is noisy or contains streaks | Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (P.8) or select LINE. Set VCR/TV selector to "VCR." Adjust TRACKING control in either direction. (P.37) Try Head Cleaning. (P.37) |
| Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control | Set TV's Vertical Hold Control to MANUAL, then adjust. |
| VCR cannot be controlled | Make sure VCR power is on. Check Remote batteries. Make sure VCR LOCK is set to off. (P.35) Make sure Remote is in proper mode.(P.22) Make sure Timer Record is not in progress. |
| Remote Control | Correction |
| VCR cannot be remote controlled | Make sure VCR power is on. Make sure Remote is in VCR mode. Aim Remote Control directly at remote sensor on VCR. (P.6) Avoid any object blocking signal path. Check Remote batteries. (P.4) Make sure VCR LOCK is set to off. (P.35) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference. |
| ACTION and PROG/VCR+ buttons do not respond | Check connections between VCR, external antenna, and TV. Press VCR button for VCR mode. (P.22) Check Remote batteries. (P.4) |
| Miscellaneous | Correction |
| Programs cannot be viewed on TV | Make sure TV power is on. Make sure TV is set to output of VCR. Check connections between VCR, external antenna, and TV. Set VCR/TV selector to "TV." (P.15) Make sure proper signal source is selected. |
| Video cassette cannot be inserted | Insert the cassette with window side up; record tab facing you. Check if a tape is already in the unit. |
| Video cassette cannot be removed | Completely insert Power Plug into an AC outlet. |
| Video cassette ejects when a recording is started or the power is turned off for timer recording | Make sure cassette record tab is intact. (P.4) |
| In Stop mode, the motor (CYLINDER) continues to rotate | To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode. |

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

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

Service Center List

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

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

Accessory Purchases:

Customer Orders Only 800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

| (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check) | | | | |
|--|---|--|--|--|
| Factory Servicenter | rs Locations | | | |
| CALIFORNIA 6550 Katella Avenue Cypress, CA 90630 800 Dubuque Avenue S. San Francisco. | GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350 | MASSACHUSETTS 60 Glacier Drive Suite G Westwood, MA 02090 | TEXAS 13615 Welch Road Suite 101 Farmers Branch, TX 75244 | |
| CA 94080 3878 Ruffin Road Suite A San Diego, CA 92123 COLORADO 1640 South Abilene Street Suite D | ILLINOIS 9060 Golf Road Niles, IL 60714 1703 North Randall Road Elgin, IL 60123 (Pick-up/Drop-offonly) | MINNESOTA 7850-12th Avenue South Airport Business Center Bloomington, MN 55425 OHIO 2236 Waycross Road Civic Center Plaza | WASHINGTON 20425-84th Avenue South Kent, WA 98032 | |
| FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020 | 62 Mountain Road Glen Burnie, MD 21061 | PENNSYLVANIA 2221 Cabot Blvd. West Suite B Langhorne, PA 19047 | HAWAII 99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808)488- 1996 | |
| | | | Fax (808)486-4369 | |

Service in Puerto Rico

Matsushita Electric of Puerto rico, Inc. Panasonic Sales Company/ Factory Servicenter:

Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

As of January 2000

_imited 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 Video Products Limited Warranty

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

| PRODUCT | PARTS | LABOR | SERVICE | CONTACT NUMBER |
|-----------------|--|------------------|--|----------------------|
| CAMCORDER | ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS | NINETY (90) DAYS | Carry-In or Mail In 1-8 | 1-800-211-PANA(7262) |
| | | NINETY (90) DAYS | | |
| VCR | ONE (1) YEAR | NINETY (90) DAYS | Carry-In or Mail In | 1-800-211-PANA(7262) |
| A/V MIXER | ONE (1) YEAR | NINETY (90) DAYS | Carry-In or Mail In | 1-800-211-PANA(7262) |
| MONITOR- VCR | ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS | | Carry-In: 21" CRT and Smaller | 1-800-211-PANA(7262) |
| Combination | | DAYS | In-home or carry-in: 22" CRT and Larger | |

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days. In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free contact number listed above, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is requires before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

<u>LIMITS AND EXCLUSIONS</u>
There are no express warranties except as listed above.

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

APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply

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

to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 8/8/2000

Spanish Quick Use Guide/ Guía para rápida consulta

Como realizar la Configuración Inicial

Encienda el TV y ajústelo en el canal 3.

SELECT LANGUAGE PRESS CH & : ENGLISH OPRIMIR CH V : ESPANOL APP. VCR/TV : FRANCAIS TO CHANGE VCR'S OUTPUT CH, PRESS ACTION KEY,

Encienda el VCR. Al encender el VCR por primera vez, en la pantalla aparecerá SELECT LANGUAGE.

- · Si la pantalla no aparece, verifique las conexiones entre el VCR y el TV, y si el TV está sintonizado en el canal 3, intente cambiándolo al canal 4.
- Cuando desee cambiar el canal de salida del VCR, por favor remítase Canal de Salida del VCR en la página 13.
- Si ajusta el idioma equivocado, realice los pasos de "Reajuste de Todas las Funciones de Memoria del VCR" en la página 9.

TEGIN A CONEXION CABLE/OSS+VCR+TV VCR+CABLE/OSS+TV ELEGIR : A V FUAR : N SALIR : ACTION

Presione CH A para seleccionar Inglés.

Presione CH ▼ para seleccionar Español.

Presione la tecla VCR/TV para seleccionar Francés. Cuando se pulsa una de las teclas anteriores, aparece la pantalla ELEGIR LA CONEXION en el idioma que se ha seleccionado.

VCR C/A RELOU CANAL ELEGIR LA CONEXION CABLE/DSSS/VCR+TV BALIDA DEL CABLE/DSS ELEGIR : A T FLIAR: P

Presione **▲**▼ para seleccionar la conexión CABLE/DSS►VCR►TV y luego presione para ajustar.

TVCR TO A TRELOU TEANAL FUACION AUTO (CA RELOJ CONECTE A SU ANTENA Y SI CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO... POR FAVOR OPRIMIR CHUP

Confirme el canal de salida de su caja de cable o receptor DSS. Presione las teclas ▲▼ para seleccionar el mismo canal que el canal de salida de la caja de cable o del receptor DSS. Presione para entrar

Encienda la caja de cable v ajuste su canal de Estación Pública de Radiodifusión (PBS) en su huso horario. Si utiliza un receptor DSS, este tiene que estar apagado.

YCR TO/A TREE OUT CAPAL 5/13/2001 DOM 2:20PN HORA VERANTEGA: ACT CANAL FUADO: CA 16 FIJACION AUTOMATICA TERMINARI CHI UP

Presione la tecla CH A para comenzar la operación de Ajuste Automático Canal/Reloi. El ajuste Canal/Reloj se lleva a cabo automáticamente. Si la configuración se termina, aparece la pantalla siguiente.



Si aparece la pantalla "Filacion Automatica Del Reloi Es Incompleto", ajuste el reloj utilizando los procedimientos de "AJUSTE MANUAL DEL RELOJ" mostrados en la página 9.

Aiuste Manual del Reloi

Si el ajuste automático del reloj no se ha completado, ajuste el reloj manualmente de la siguiente manera:

- 1) Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú
- Presione ▲▼ para seleccionar el mes y ▶ para aiustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).
- 3) Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

Ajustar de nuevo el reloj

Presione ACTION para exhiba el menú.



Presione

para seleccionar "RELOJ".



Presione **▲▼** para seleccionar "MANUAL" v luego presione .



Presione ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.

Presione ACTION dos veces para que el reloj comience a funcionar y salir desde este modo.

Operaciones básicas para la reproducción

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

Detalles especiales durante la grabación

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

Operaciones básicas para la grabación

- Inserte la cinta con lengüeta de protección de grabación (pág. 4).
 La alimentación del VCR se activa. En la pantalla Multi Función se ilumina "VCR".
- 2 Presione CH ▲▼, o las teclas de números para seleccionar el canal.
- Presione SPEED para seleccionar la velocidad de grabación (pág.4)
 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 pulsar nuevamente se reanuda la grabación.
- **5** Presione STOP para detener la grabación.
- Grabación de Un Toque (grabar en marcha).
 - El VCR se apaga después de preajustar la extensión de la grabación.
 - --> Cada vez que se pulsa REC se adicionan 30 min. a la extensión de grabación hasta un máximo de 4 horas.

Programación fácil para la grabación con temporizador

1 Presione PROG/VCR+ para visualizar PROGRAM.



Presione ◀▶ para visualizar la pantalla de Programa.

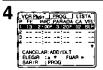


1) Para ajustar la FECHA de grabación, presione ▲▼ para seleccionar:
1-31 = una vez, o DIARIO = a la misma hora de lunes a viernes, o SEMANA = a la misma hora cada semana y presione ▶ para ajustar.

 Vea el orden de selección abajo a la izquierda.

Fecha de hoy

2) Para ajustar los ítems que quedan, presione ▲♥ para seleccionar y presione ▶ para ajustar los tiempos de START/ STOP, CANAL, o entrada de LÍNEA (pág. 36), y velocidad de la cinta (SP, LP, SLP).



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

Presione nuevamente PROG/VCR+ para salir.

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

Index

| Accessories4 | Play Button6 |
|--|----------------------------------|
| AC Power Plug7 | Power Button6 |
| Add or Delete a Channel 13 | Power Indicator 7 |
| Audio Input Connector(L/R) 7 | Program End Search30 |
| Audio Output Connector(L/R) 7 | Record 15 |
| Auto Operation Functions 31 | Record Button 6 |
| Auto Shut-Off 35 | Remote Control Buttons6 |
| Auto VCR Plus+ System | Remote Sensor6 |
| Channel Setup 18.19 | Remote Warning ON/OFF 35 |
| Before Requesting Service 39 | Repeat Play31 |
| Blank Tape/ No Video Signal | Review,Replace or Clear |
| Indication 38 | Program Contents 17 |
| Cable Box Setup 10 | Rewind/Search Button 6 |
| Cassete Compartment 6 | Select Audio Mode25 |
| Channel Caption 32,33 | Service Center List40 |
| Channel Un/Down Tracking/ | Spanish Quick |
| V-Lock Button | Use Guide 42,43 |
| Cleaning the VCR37 | Specifications37 |
| Clock/Status/Channel/Speed | Stereo/SAP/Mono Broadcast 25 |
| Display 7 | Stop/Eject Button 6 |
| Display 7 Commercial Advance 26,27,28 | Tape Position and Tape Status 35 |
| Connections 8,10,24 | Time Stamp 34 |
| Copying Your Tapes36 | Timer Indicator 7 |
| DST (Daylight Saving Time) 13 | Timer Recording 16,17 |
| Fast Forward/Search Button6 | VCR Indicator 7 |
| Features for a Quality Picture 37 | VCR Lock 35 |
| 1 101010 111111111111111111111111111111 | VCR Plus+ System |
| Function & Channel Display 38 | Programming21 |
| Head Cleaning37 | VCR Status & Clock Display 38 |
| Hi-Fi Indicator7 | VCR/TV Selector 6 |
| Index Search30 | VHF/UHF Antenna |
| Initial Setup 8,9,10,11 | Input Terminal 7 |
| Limited Warranty 41 | VHF/UHF Antenna Output Terminal7 |
| Manual VCR Plus+ System | Output Terminal7 |
| Channel Setup20 | Video Input Connector(L/R)7 |
| Movie Advance | Video Output Connector(L/R) 7 |
| MTS Broadcast | |
| Multi-Brand Control 22,23 | Displays 38 |
| On-Screen Display | Displays |
| Playback 14 | Zero Search |
| | |

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

Printed in Indonesia LSQT0368A S1200-0

