

Panasonic

Video Cassette Recorder Operating Instructions Model No. PV-V4611

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



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

As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

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

Spanish Quick Use Guide is included. (Guía para rápida consulta en español está incluida.)

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

Important Safeguards and Precautions

1

2

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

INSTALLATION

POWERSOURCE CAUTION

1

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:
 - a. 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.
 b. Avoid built-in installation, such as a book case
 - Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.
 AVOID EXTREMELY HOT LOCATIONS OR
- 5 AVOID EXTREMELY HOT LOCATIONS OR SUDDENTEMPERATURE CHANGES Do not place the unit over or near any kind of heater or radiator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care.
 Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to over
- 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.

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 NEC -NATIONAL FLECTRICAL CODE 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, ANTENNA LEAD IN GROU part 1 of the Canadian Electrical DISCHARGE UNT Code) provides information ELECTRIC SERVICE FOURPMENT GROUNDING CONDUCTORS with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode. **KEEPANTENNACLEAROFHIGHVOLTAGEPOWERLINESORCIRCUITS** An outside antenna system should be located well away from

OUTDOOR ANTENNA INSTALLATION

SAFE ANTENNA AND CABLE CONNECTION

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

USING THE VIDEO UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards. 1 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 AN ELECTRICAL STORM During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

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

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

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

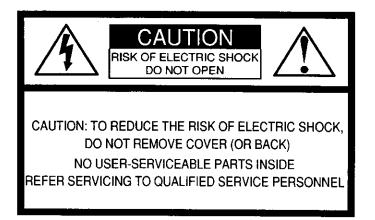
3 HAVETHESERVICETECHNICIAN PERFORMASAFETYCHECK After any service or repairs to the unit, request the service technician to conduct a through safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.



1

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

 Model No. Serial No.

LSSQ0286

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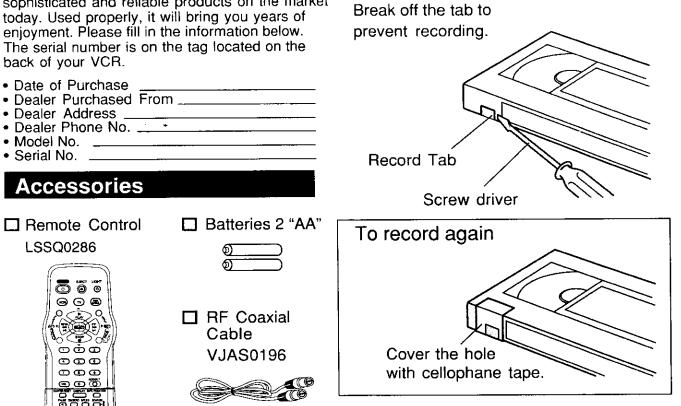
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1-800-332-5368.

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.

Prevent Accidental Tape Erasure



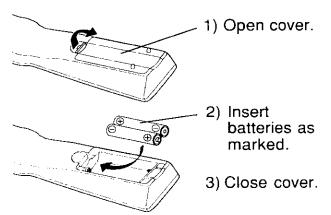
Record/Playback Time

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

Tape Speed	Type of Video Cassette			
Setting	Т60	T120	T160	
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes	
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes	
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours	

Loading the Batteries

To order accessories, call toll free



Battery replacement caution

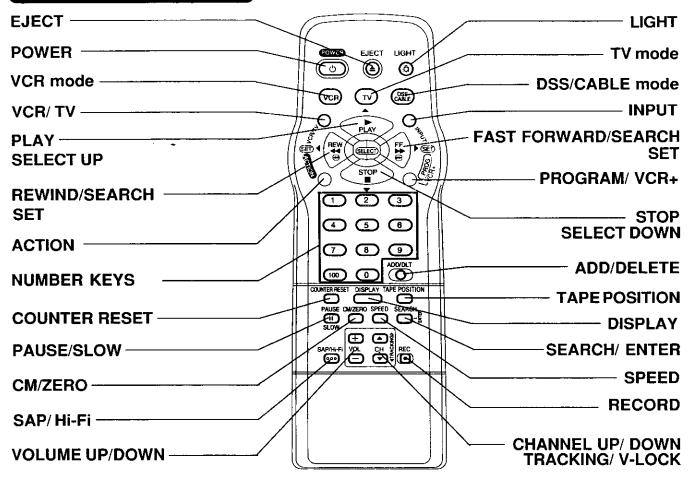
- Do not mix old and new batteries. •
- Do not mix alkaline with manganese • batteries.

4

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 Feature20,21Advanced Connections (Cable/DSS)22MTS Broadcast/ VHS Hi-Fi Stereo System23Tape Operation (Search System)24~26Special VCR Features26,27Copying Your Tapes (Dubbing)28	Advanced Operation
VCR & Cassette Information29On-Screen Displays (OSD)30Before Requesting Service31Service Center List32Limitted Warranty33Spanish (Español) Quick Use Guide34,35IndexBack Cover	For Your Information

Location of Controls

Remote control Buttons

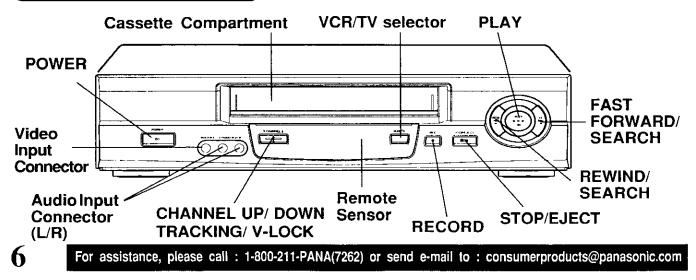


Light Tower Universal Remote Control

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

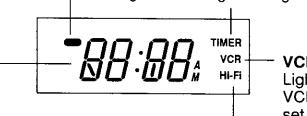
Power Indicator

is on.

Lights when power

Timer Indicator

Lights when the VCR is set for a Timer Recording, or when One Touch Recording (OTR) is used. Flashes when Timer Recording is set, but a tape has not been inserted into the VCR and when a power interruption occurs during Timer Programming.



VCR Indicator Lights when the VCR/TV selector is set to VCR.

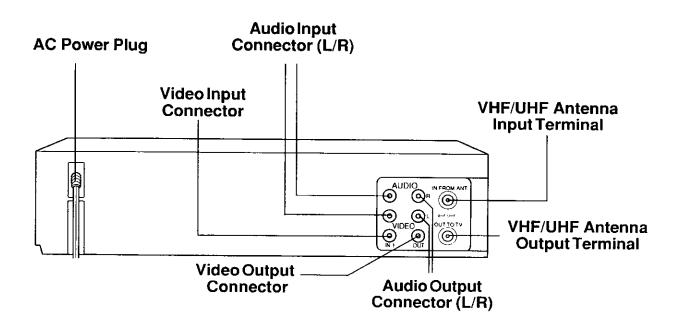
Clock/ Status/ Channel/ Speed Display

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

Hi-Fi Indicator

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

Rear View of the VCR



Initial Setup (Connection)

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

How to Connect

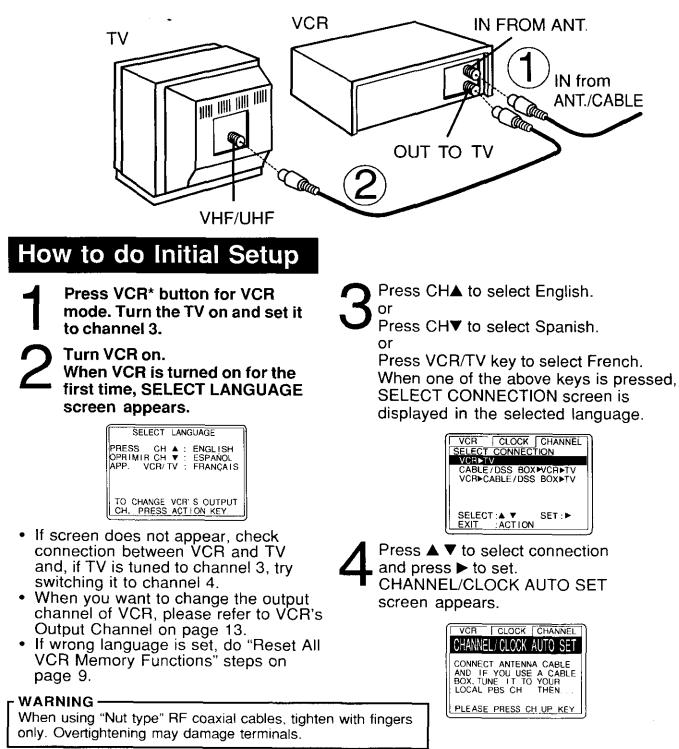


8

Connect the Cable from Antenna/Cable to the IN FROM ANT. terminal on VCR.

Connect the OUT TO TV terminal on the rear of VCR to the ANT.

IN terminal on TV using the RF Cable (included accessory).

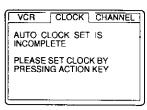


*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

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.

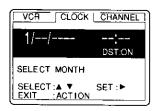


Manual Clock Set

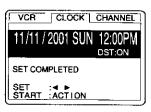
If Auto Clock Set was incomplete, manually set the clock as follows.



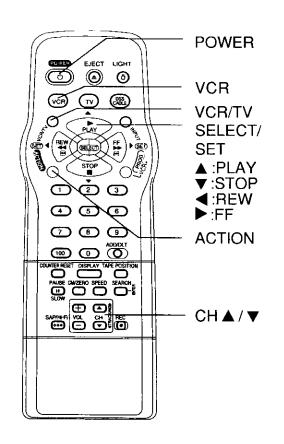
Press ACTION Key on the Remote to display CLOCK Menu screen.



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



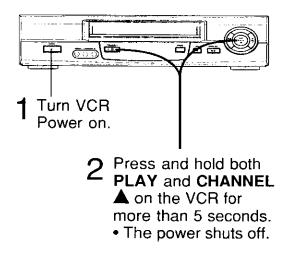
B Press ACTION Key twice to start CLOCK and exit.



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.

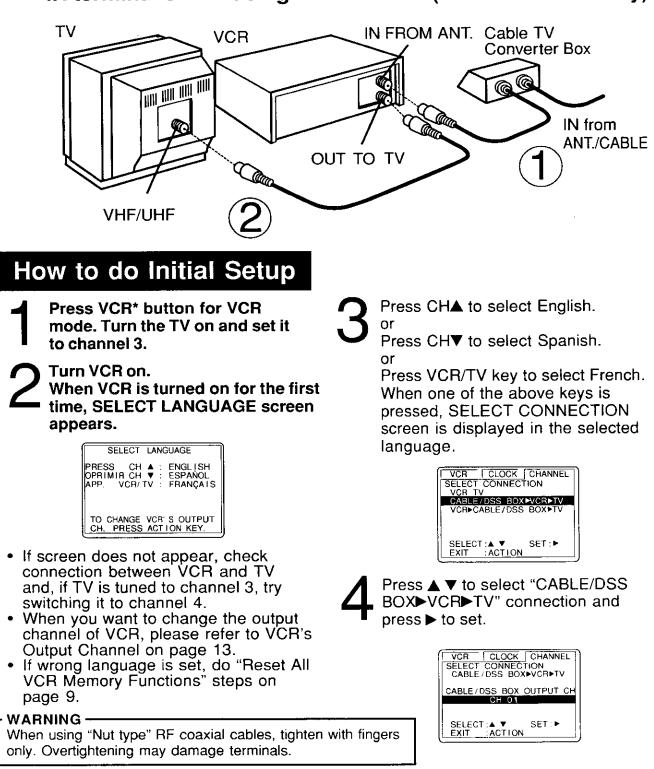
Initial Setup for DSS/Cable Box-VCR-TV Connection

How to Connect

10

Connect the OUT Jack on your cable box to the IN FROM ANT. terminal on the VCR with an RF cable.

Connect the OUT TO TV terminal on the rear of VCR to the ANT. IN terminal on TV using the RF Cable (included accessory).



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

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.

CHANNEL/CLOCK CHANNEL
CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN
PLEASE PRESS CH UP KEY

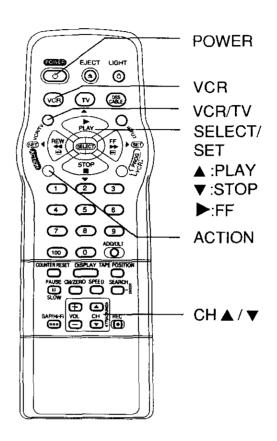
Turn on your cable box and set it to your Public Broadcasting Station (PBS) channel in your time zone. If you use a DSS receiver; it must be turned off.

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



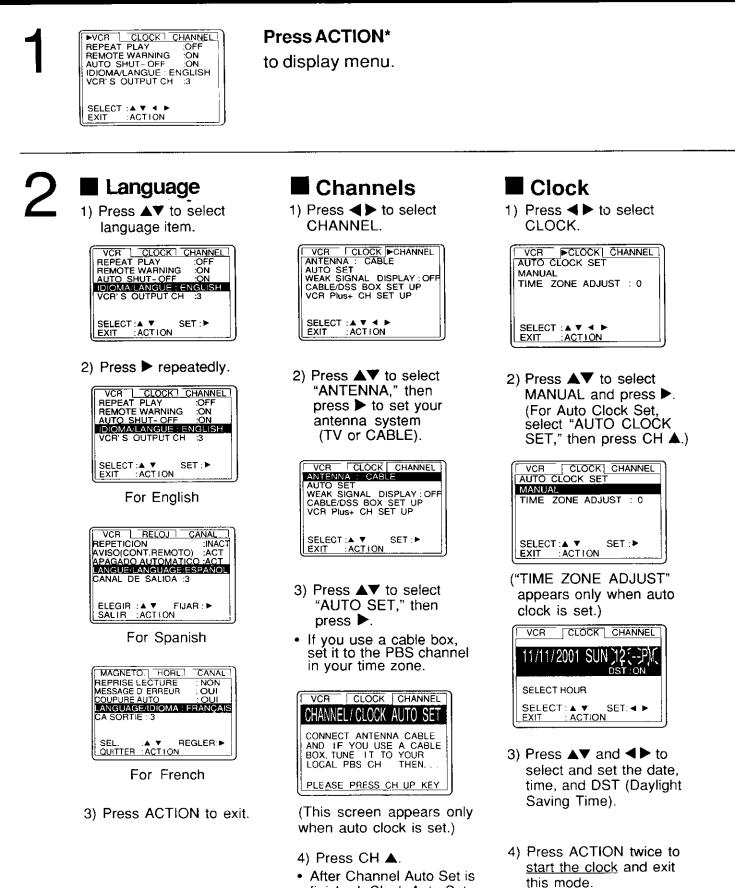
If "Auto Clock Set is Incomplete" screen appears, set the clock using MANUAL CLOCK SET procedures shown on page 9.

AUTO CLOCK SET IS INCOMPLETE PLEASE SET CLOCK BY PRESSING ACTION KEY	VCR CLOCK CHANNE	Ĺ,



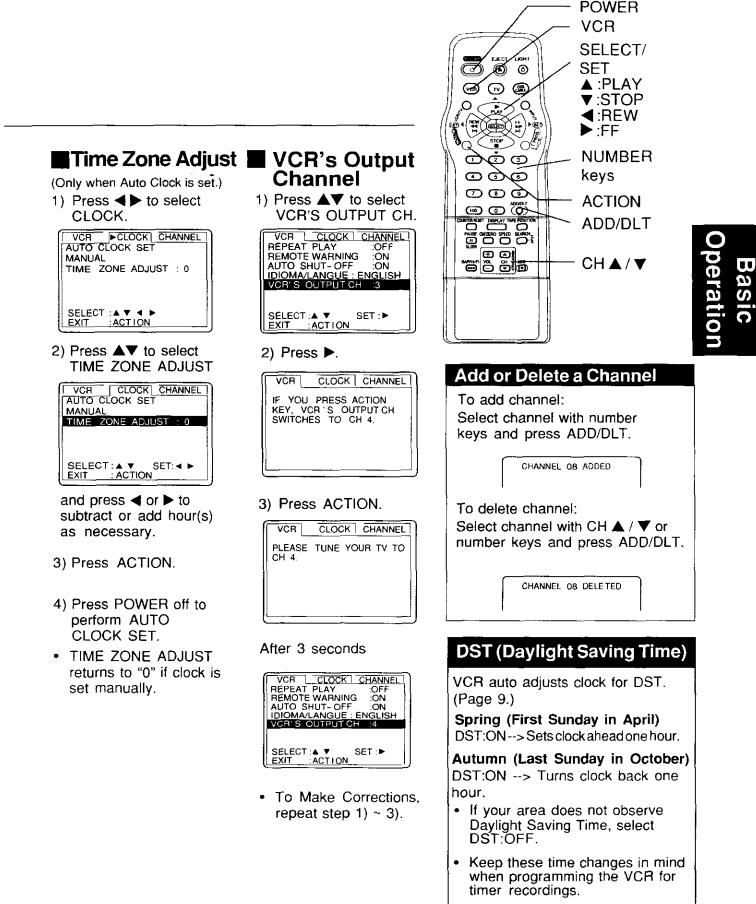
Initial Setup (Connection)

Reset Language, Channels, Clock,

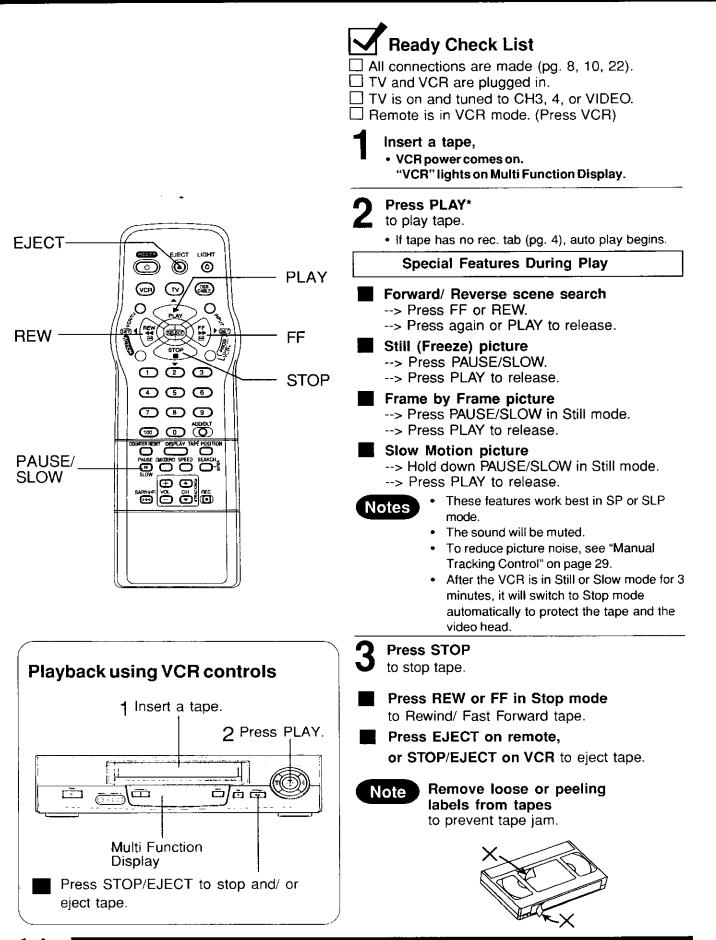


finished, Clock Auto Set will be performed.

VCR's Output Channel



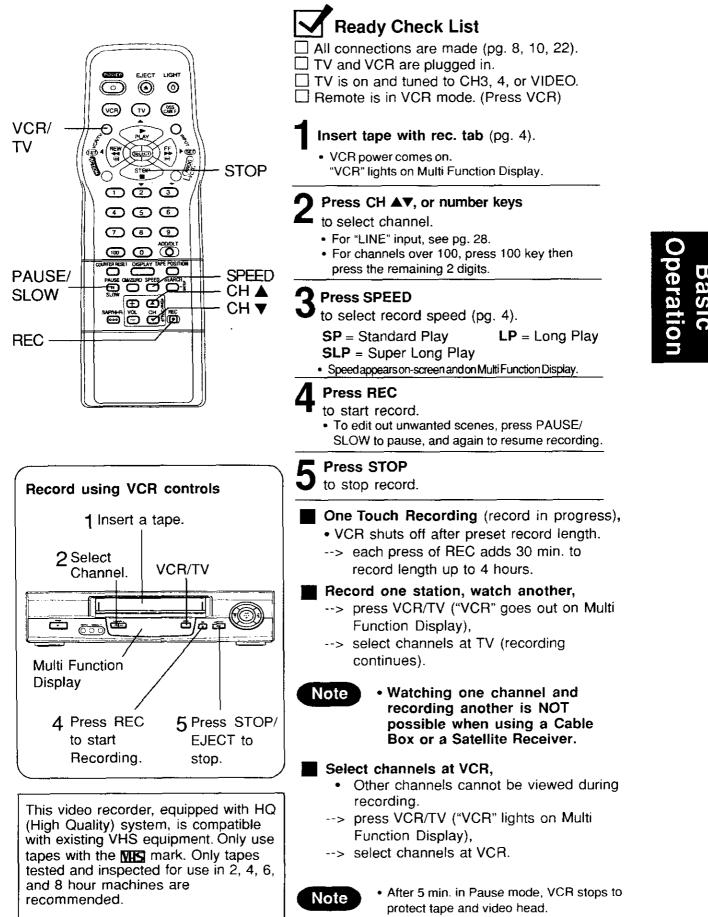
Playback a Tape



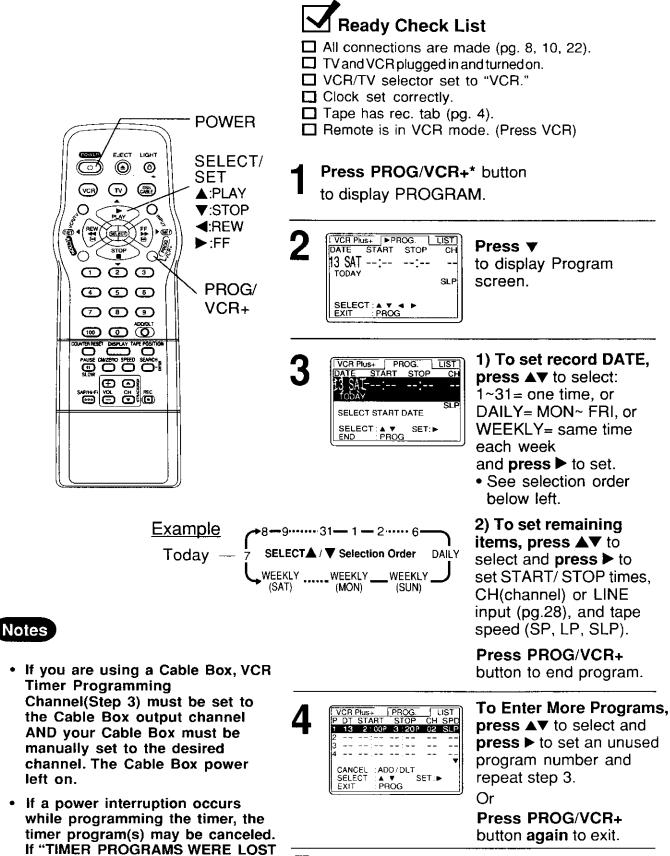
Record on a Tape

*Important:

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



Timer Recording



Press POWER off

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

5

DUE TO POWER INTERRUPTION"

appears on-screen, please reenter

the timer programs.

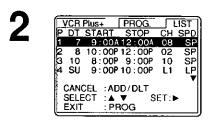
Review, Replace or Clear Program Contents:

(Recording is not in progress)

- 1) Press PROG/VCR+ button.
- Press ◄► to select LIST.

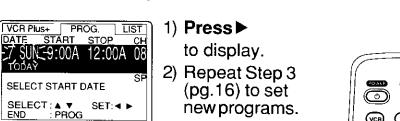
To cancel a Timer Recording in progress...

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



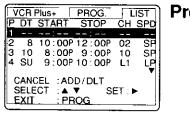
Press ▲▼ to select number.

To Replace program...



or

To Clear program...



receiver must be left on.

receiver must be turned off.

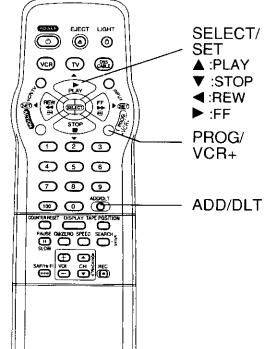
Press ADD/DLT.

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

When recording programs via an antenna or cable, the DSS



Timer Recordin

Timer Recording Using VCR Plus+ System

VCR Plus+ System is ...

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.

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.

VCR CLOCK CHANNEL REPEAT PLAY OFF REMOTE WARNING ON AUTO SHUT- OFF ON

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

SELECT :▲▼ ◀ ► EXIT :ACTION

VCR Plus+ System Channel Setup

To complete step 4 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

Broadcast or Cable

station name

HBO

Nickelodeon CBS

FOX

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

which my TV

15

20

04

SAMPLE ONLY

Assigned Guide

channel No.

33

38

04

11

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

Press ACTION*

to display menu.

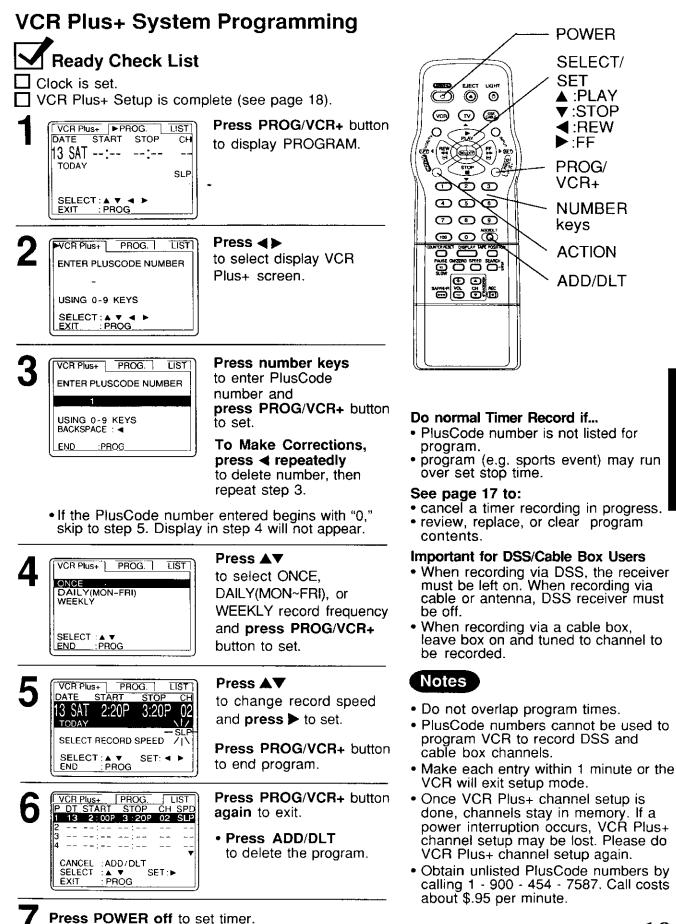
to select CHANNEL.

Press **4**

VCR CLOCK CANNEL ANTENNA : CABLE AUTO SET WEAK SIGNAL DISPLAY : OFF CABLE/DSS BOX SET UP VCR Plus+ CH SET UP SELECT ATTON VCR CLOCK CHANNEL ANTENNA : CABLE AUTO SET WEAK SIGNAL DISPLAY : OFF Press AV to select VCR Plus+ CABLE/DSS BOX SET U VCR Plus+ CH SET UP CHANNEL SETUP, and press > to set. SELECT A T SET : P Channel No. on VCR CLOCK CHANNEL receives the station. To enter VCR Plus+ channels, GUIDE CH RECEIVE CH ► 01 02 **press** ► to move cursor to right, press **AV** to enter number, VCR CLOCK CHANNEL press ◀ to set, and GUIDE CH RECEIVE CH press ▲▼ to scroll up/down. 01 CLEAR :ADD/DLT SELECT :▲ ♥ SET:◀ EXIT :ACTION Repeat step 4 until list is complete. To Make Corrections, press $\blacktriangle \forall$ and \triangleright to move to error, then $\blacktriangle \forall$ to

change, or ADD/DLT to erase number.

Press ACTION twice to end setup.



("TIMER" lights on Multi Function Display.)

Recording

Multi-Brand Control Feature

Multi-Brand Control Setup

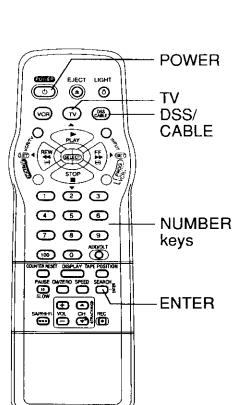
The Remote Control can be set to control some TV and Cable box/DSS functions.

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

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



- 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, CM/ZERO, 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
Quasar 01, 02	Sharp 06, 07
RCA 03	Sony 08
GE 03	Toshiba
Zenith 04	Sanyo 10
Magnavox 05	

Cable Box Brand Code Numbers

Archer 05, 06, 01, 44, 63, 91, 126 Cabletenna 01, 44, 63, 91, 126 Cableview 63, 44, 42, 30, 52, 04, 124, 126 Century 51, 44, 59, 75, 126 Citizen 63, 44, 42, 30, 52, 04, 124, 126 Curtis 08, 09, 61, 53, 87
Diamond 01, 44, 63, 91, 126 Drake
Drake
Eastern
Gemini 04, 124
General Electric
General Instruments 01, 02, 03, 04, 34, 55, 83, 106,
65, 67, 68, 115, 117, 118, 124, 91 Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130
Hitachi
Jasco
Jerrold 01, 02, 03, 04, 34, 55, 83, 106,
65, 67, 68, 115, 117, 118, 124, 91
Macom 31
Magnavox 26, 112
Matsushita 16, 17, 97, 109
Movietime
NEC
NOVAVISION
Oak
Oak Sigma
Panasonic
Philips 07, 13, 20, 23, 24, 50, 128, 129
Pioneer
Pulsar 63, 44, 42, 30, 52, 04, 124, 126

Quest 05,06 Radio Shack 51,44,59,75,126 RCA 16,17,97,109 Realistic 51,44,59,75,126 Recoton 51,44,59,75,126 Regal 14,15,28,41,102,103,104,108,130 Regency 28,130 Rembrandt 01,32,39,42,44,63,126 Salora 68 Samsung 05,32,40,42,06 Scientific Atlanta 08,09,61,53,87 Sheritech 27 Signal 26,112 SL Marx 32,40,42,06,43,44,52,63,126 Sprucer 16,17,97,109 Standard Components 32,39,42,44,126 Stargate 32,40,63,44,42,30,52,04,06,124,126 Sylvania 19 Teknika 74
Telecaption
Texscan
Tocom
Unika 01, 44, 63, 91, 126
Universal
Viewstar 13, 22, 58, 62, 20, 40, 26, 107 Zenith 07, 23, 50, 129

JVC 11

Hitachi 12 Mitsubishi 07, 13

Samsung 14

Gold Star 15, 16, 17

Advanced Operation

DSS Brand Code Numbers

Toshiba	 Panasonic	
Hitachi/Hughes		
Magnavox/Uniden 1	 Sony	98, 105
Magnavox/ Uniden 2		,

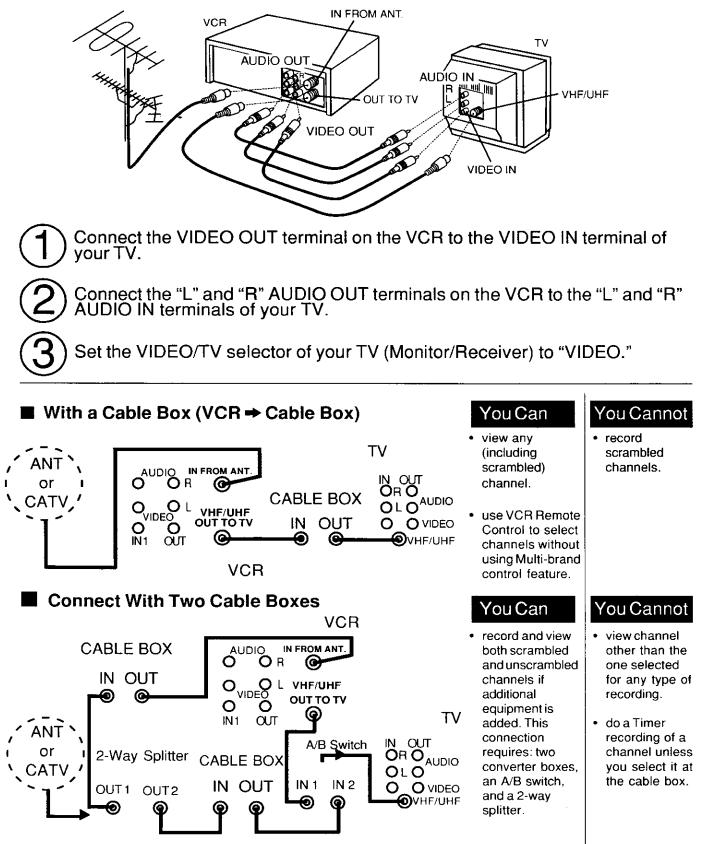
Important Notes

- 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.



MTS Broadcast/VHS Hi-Fi Stereo System

STOP

STOP

SAP MONO

STOP

INSAP MONO

STOP

SAP MONO

STEREO

STEREO

STEREO <

KAP MONO

INSTEREO ◀

12:00AM

12:00AM

12:00AM

12:00AM

ABC

ABC

ABC 0:00:00

ABC

0:00:00 SP

HIFI(L/R) <

Arrow indicates

selection.

HIFI(L) HIFI(R) NORMAL

0:00:00

0:00:00

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

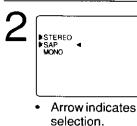
Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

MONO broadcast

Normal monaural sound broadcast.

Audio Mode for Recording

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



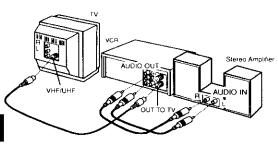
Press SAP/ Hi-Fi repeatedly to select desired mode.

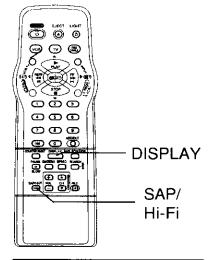
 Refer to "Receivable Broadcast Types" above.

B Do a recording. See page 15.

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.





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 Playback

Start playback. See page 14.

Press SAP/ Hi-Fi

- to display audio mode.
 - (Display disappears after 5 seconds.)

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

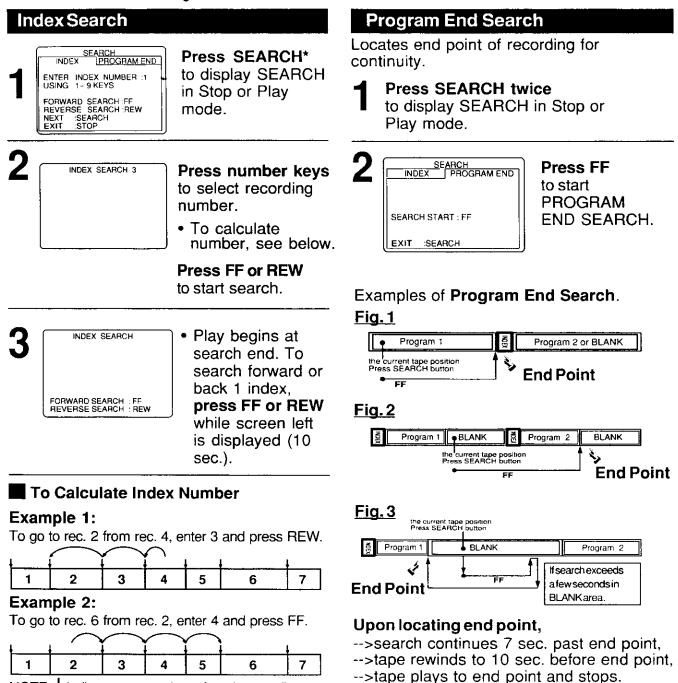
 Select "HIFI(L/R)" or "HIFI(L)" or "HIFI(R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound. anceo

tion

Tape Operation

Search System

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

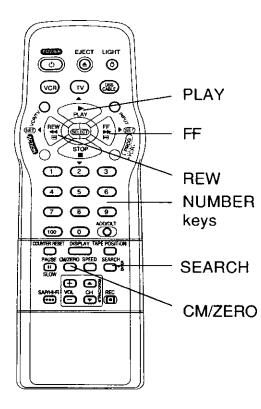


NOTE: I indicates start points of each recording.

Note

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

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



Auto Operation Functions

Auto Play

Insert 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

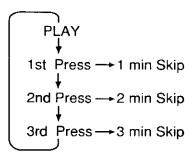
(Repeat Play must be off) Play, -->Tape end, -->Rewind, -->Tape ejects if no record tab

Commercial Skip

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

Press CM/ZERO in Play mode.

• The skip time can be changed by pressing CM/ZERO button repeatedly as shown by the figure below.



• No indication appears.

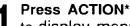
Advanced Operation

Tape Operation

Special VCR Features

Repeat Play

Set to playback a recording over and over.



to display menu.



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.

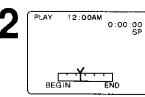
Press ACTION

to return to normal screen.

Zero Search

To quickly return to a specified tape location.

Press DISPLAY during play to display Counter.

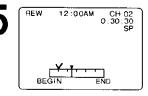


Press COUNTER RESET at desired position to reset to "0:00:00".



Continue to record, playback etc.

4 Press Stop.



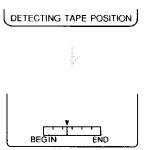
- Press CM/ZERO in Stop mode to start ZERO SEARCH.
- Unit will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.

- 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.

Tape Position Display 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.

Press TAPE POSITION

Let to return to normal screen.

Remote Warning ON/OFF Feature

If Multi-brand feature is used (page 20), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.



Press ACTION to display menu.



Press ▲▼

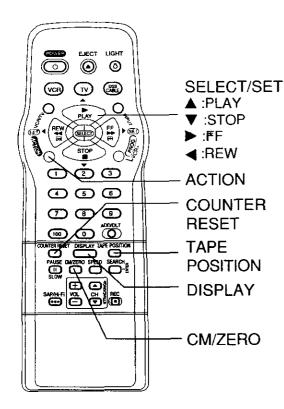
to select REMOTE WARNING and **press** ► to set ON or OFF.

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

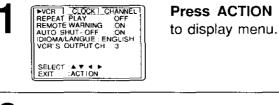
B Press ACTION to return to normal screen.

26

Weak Signal Display ON/OFF Feature



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





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

VCR Lock Feature

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

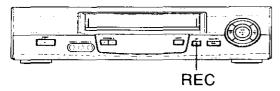


VCR LOCK OFF

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.



Press ACTION

to return to normal screen.

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.

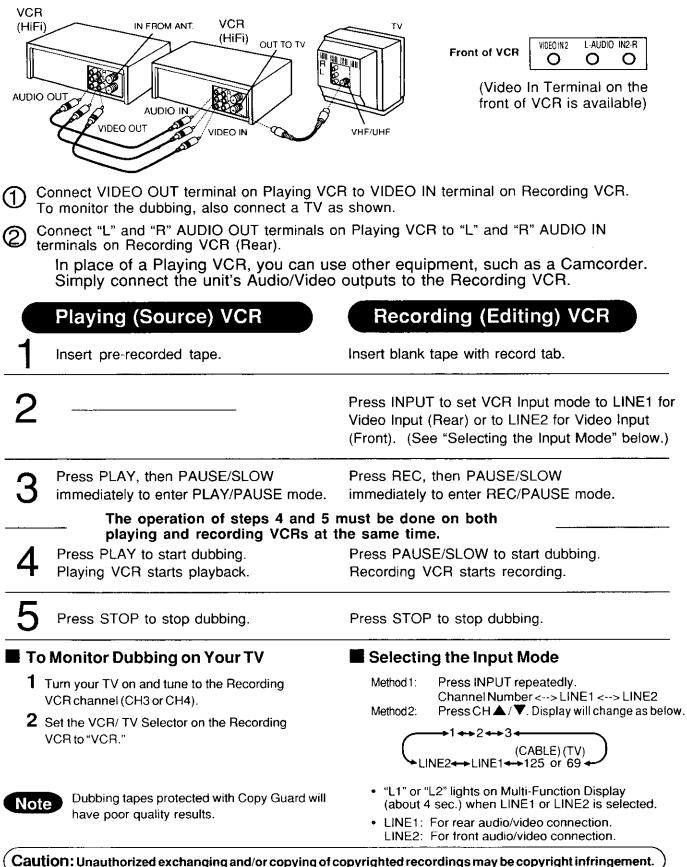
Press ACTION

to return to normal screen.

Advanced Operation

Copying Your Tapes (Dubbing)

Connection



VCR & Cassette Information

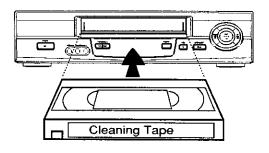
Head Cleaning

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

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 OR REFER TO MANUAL END :PLAY



- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 32.)

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

Power Source:	120 V AC, 60 Hz
Power Consumption:	
	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:	
CABLE Channels:	Midband A through 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
Operating Temperature:	5 °C~40 °C (41 °F~104 °F)
Operating Humidity:	10%~75%
Weight:	2.7 kg (6.0 lbs).
Dimensions:	430 (W) x 98 (H) x 242 (D) mm
	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.

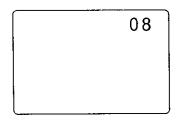


V-Lock Control (to reduce picture jitter) In Still mode, CH (TRACKING) ▲ / ▼ buttons operate as a V-Lock control.

For Your Information

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.

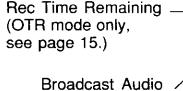
Blank Tape/ No Video Signal Indication

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 27) set to OFF, the TV screen will turn solid blue.

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

--> press DISPLAY.

30



Being Received

Current Time Function Status Channel REC 12:00AM -0:12:34 SP. ABC LC 0:25 ¢STEREO ◀ ¢SAP MONO Counter Tape Speed (See page 4.)

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	29
TURN VCR 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	27
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 CABLE/DSS MODE USE VCR : VCR KEY USE TV : TV KEY	If you press an invalid key on the remote while in CABLE/DSS mode	20 21 26
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	20 21 26

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.
	 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. 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.29) Try Head Cleaning. (P.29)
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.27) Make sure Remote is in proper mode.(P.20) 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.27) 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.20) 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	
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

formation or Your

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)

Factory Servicenters 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	ILLINOIS 9060 Golf Road	MINNESOTA 7850-12th Avenue	WASHINGTON
3878 Ruffin Road Suite A	Niles, IL 60714	South Airport Business Center	20425-84th Avenue South
San Diego, CA 92123	1703 North Randall Road Elgin, IL 60123	Bloomington, MN 55425	Kent, WA 98032
COLORADO 1640 South Abilene Street Suite D	(Pick-up/Drop-offonly)	OHIO 2236 Waycross Road Civic Center Plaza	
Aurora, CO 80012	MARYLAND 62 Mountain Road Glen Burnie, MD	Forest Park, OH 45240	
FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020	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

Limited Warranty

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

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

PANASONIC 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 NINETY (90) DAYS	1 -	1-800-211-PANA(7262)
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 Combination	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In: 21" CRT and Smaller In-home or carry-in: 22" CRT and Larger	1-800-211-PANA(7262)

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

<u>Tape</u> (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.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO 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 For Your Information

SpanishQuickUseGuide/Guíapararápidaconsulta

-	Configuración Inicial ajústelo en el canal 3. Encienda el VCR. Al encender el VCR por primera vez, en la pantalla aparecerá SELECT LANGUAGE.	6		
sintonizado en el ca canal 4. • Cuando desee cam VCR, por favor rem VCR en la página 1 • Si ajusta el idioma	I VCR y el TV, y si el TV está anal 3, intente cambiándolo al nitase Canal de salida del 13. equivocado, realice los pasos idas las Funciones de	Si aparece la pantalla "Fijacion Automatica Del Reloj Es Incompleto", ajuste el reloj utilizando los procedimientos de "AJUSTE MANUAL DEL RELOJ".		
0	Presione CH ▲ para	Ajuste Manual del Reloj		
3 (VCR FREIOJ CANAL ELEGIR VA CONEXION VCR→CABLE/DSS→TV ELEGIR : A ▼ FIJAR :► SALIR : ACTION	seleccionar Inglés. O Presione CH ▼ para seleccionar Español. O Presione la tecla VCR/TV para seleccionar Francés. Cuando se presione una de las teclas anteriores, aparece la pantalla ELEGIR LA CONEXION en el idioma que se ha seleccionado. Presione ▲▼ para	 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 RELOJ. 2) Presione ▲▼ para seleccionar el mes y ▶ para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano). 3) Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir. 		
ELEGIR LA CONÈXION CABLE/DSSPVCRITV SALIDA DEL CABLE/DSS GA 01 ELEGIR :A V FIJAR :P SALIR :ACTION	seleccionar la conexión CABLE/DSS►VCR►TV y luego presione ► para ajustar.	Ajustar de nuevo el relojPresione ACTION para exhiba el menú.		
5 VCR FRELOU CANAL FUACION AUTO (CARELOU) CONECTE A SU ANTENA YSI USA UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO POR LAVOR 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	2 TIJACION AUTOMATICA MANUAL AJUSTE ZONA HORA 0 ELEGIR A VIA SALIR ACTION Presione IP para seleccionar "RELOJ".		
		3		
	Encienda la caja de cable y ajuste su canal de Estación Pública de Radiodifusión (PBS) en su huso horario. Si utiliza un receptor DSS, este tiene que estar apagado.	ELEGIR : A V FIJAR : SALTB : AQTION		
		4 Presione ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.		
		5 Presione ACTION dos veces para <u>que el reloj</u> <u>comience a funcionar</u> y salir desde este modo.		

Operaciones básicas para la reproducción

- Inserte un cassette.
- la alimentación del VCR se activa. En la Pantalla de Visualización Multi Función se ilumina "VCR".
- 2 Presione PLAY para reproducir el cassette. Si el cassette no tiene lengüeta de prevención de grabación (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 el cassette.
- Presione REW o FF en el modo de parada para Rebobinado/Avance Rápido de el cassette.
- Presione EJECT en el control remoto, o STOP/ EJECT en el VCR para expulsar el cassette.

Operaciones básicas para la grabación

- 1 Inserte el cassette con lengüeta de protección de grabación (pág. 4). La alimentación del VCR se activa. En la pantalla Multi Función se ilumina"VCR".
- 2 Presione CH AV, o las teclas de números para seleccionar el canal.
- 3 Presione SPEED para seleccionar la velocidad de grabación (pág.4)
 - SP = Reproducción estándar,
 - ĽÞ 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

- Presione PROG/VCR+ 1
- para visualizar PROGRAM.



para visualizar la pantalla de Programa.



<u>Ejemplo</u>

Fecha de hoy

MANAL___SEMANAL__SEMAN (SAB) (LUN) (DOW

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 v presione 🕨 para ajustar. Vea el orden de

selección abaio a la izquierda.

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. 28), y velocidad de el cassette (SP, LP, SLP).

Presione PROG/VCR+ para finalizar el programa.



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

Accessories	4
AC Power Plug	7
Add or Delete a Channel	
Audio Input Connector(L/R)	7
Audio Output Connector(L/R)	7
Auto Operation Functions	25
Auto Shut-Off	27
Before Requesting Service	
Blank Tape/ No-Video Signal	
Indication	30
Cable Box Setup	10
Cassete Compartment	
Channel Up/Down Tracking/	
V-Lock Button	6
Cleaning the VCR	29
Clock/Status/Channel/Speed	
Display	7
Commercial Skip	25
Connections	,22
Copying Your Tapes	28
DST (Daylight Saving Time) .	13
Fast Forward/Search Button	6
Features for a Quality	
Picture	29
Function & Channel Display .	30
Head Cleaning	29
Hi-Fi Indicator	
Index Search	24
Initial Setup 8,9,10	,11
Limited Warranty	33
MTS Broadcast	23
Multi-Brand Control 20	,21
On-Screen Display	30
Playback Play Button	14
Play Button	6
Power Button	6
Power Indicator	7

Program End Search	24
Record	15
Record Button	6
Remote Control Buttons	6
Remote Sensor	
Remote Warning ON/OFF	26
Repeat Play	26
Review, Replace or Clear	20
Program Contents	17
Rewind/Search Button	6
Select Audio Mode	23
Service Center List	32
Spanish Quick	<u>م</u> ۲
Use Guide	,35
Specifications	29
Stereo/SAP/Mono Broadcast	23
Stop/Eject Button	6
Tape Position Display	26
Timer Indicator	
Timer Recording16,	,17
VCR Indicator	7
VCR Lock	27
VCR Plus+ System	
Programming	19
VCR Status & Clock Display.	
VCR/TV Selector	6
VHF/UHF Antenna	
Input Terminal	7
VHF/UHF Antenna	
Output Terminal	7
Output Terminal Video Input Connector(L/R)	,
Video Output Connector(L/R)	<i>י</i>
Warning and Instruction	••• /
Nienlave	3 0
Displays Weak Signal Display ON/OFF	27
Zara Saarah	21
Zero Search	20

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