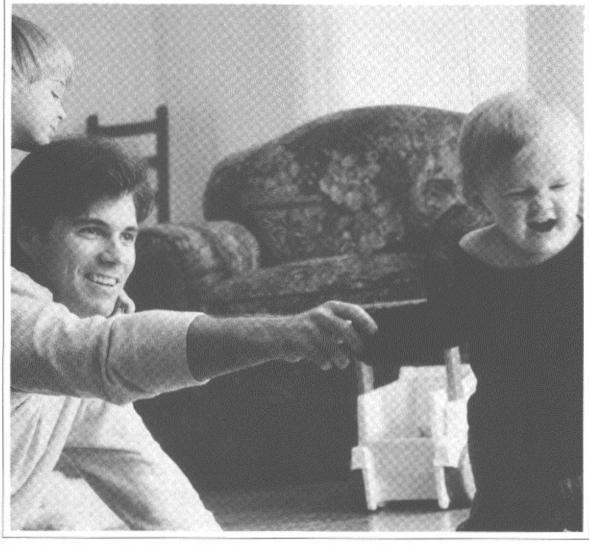
For Your Information



Panasonic

Video Cassette Recorder Operating Instructions Model No. PV-V4000



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

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

Quick Use Guide is on the back cover.



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.

INDEX



LSQT0242A

TAPE POSITION

DISPLAY

Important Safeguards and Precautions

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

INSTALLATION

POWER SOURCE CAUTION 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 POWER CORD

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

- DO NOT BLOCK VENTILATION HOLES Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection, follow these rules:
 - 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
 - or rack, unless proper ventilation is provided.
- AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES Do not place the unit over or near any kind of heater or 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 causin serious injury to a child or adult and damage to the unit. An appliance and cart combination

should be moved with care.



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.

Safety Precautions

OUTDOOR ANTENNA INSTALLATION

- SAFE ANTENNA AND CABLE CONNECTION 1 If an outside antenna or cable system is connected to the equipment, NEC - HATIONAL ELECTRICAL CODE be sure the antenna or cable system LEAD IN is grounded so as to provide some protection against built up static GROUN charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 ELECTRIC SERVICE FOLIMINET (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection
- to grounding electrodes and requirements for the grounding electrode.

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES **OR CIRCUITS**

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

USING THE VIDEO UNIT

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

- KEEP THIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.
- IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR 2 STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.
- DURING AN ELECTRICAL STORM

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

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

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

CLEANING THE UNIT

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

SERVICE

DO NOT SERVICE THIS PRODUCT YOURSELF 1 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 IF REPLACEMENT PARTS ARE REQUIRED Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety characteristics as the original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.
- HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK After any service or repairs to the unit, request the service technician to conduct a through safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.

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.

Quick stops, excessive force, and

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Advanced Operation

Basic Operation

3

Before Using

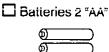
Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family 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. ______
- Serial No. _____

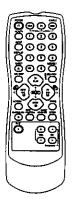
Accessories

Remote Control LSSQ0235

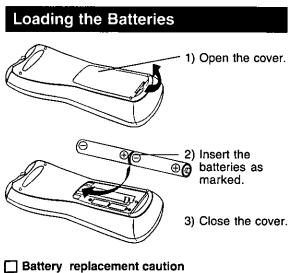


RF Coaxial Cable

VJAS0196



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



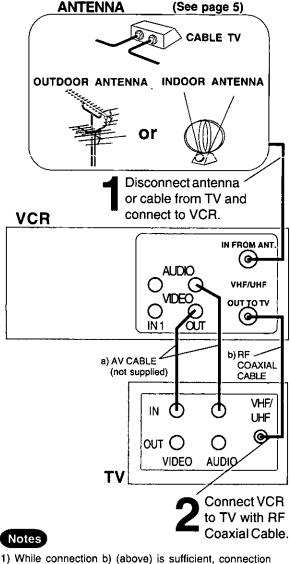
Do not mix old and new batteries.

Do not mix alkaline with manganese batteries.

Basic Connection

If your TV has AUDIO and VIDEO IN terminals, connect them to VCR for higher quality picture and sound. You can enjoy stereo sound even if your TV is not stereo by connecting a stereo amplifier to the VCR.

Connect VCR and TV with AV Cable (not supplied) or RF Coaxial Cable (accessory) as shown below.



- a) offers better sound and picture.
- 2) For both connections a) and b) proceed as follows:
 To use VCR : VCR Power on, set TV to VIDEO.
- To watch TV : VCR Power off, select channel on.
 3) Set VCR's Output to channel 3 or 4 (not an active station). (See page 6.)

WARNING

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

VHF

JHF

/HF or

UHF

VHF

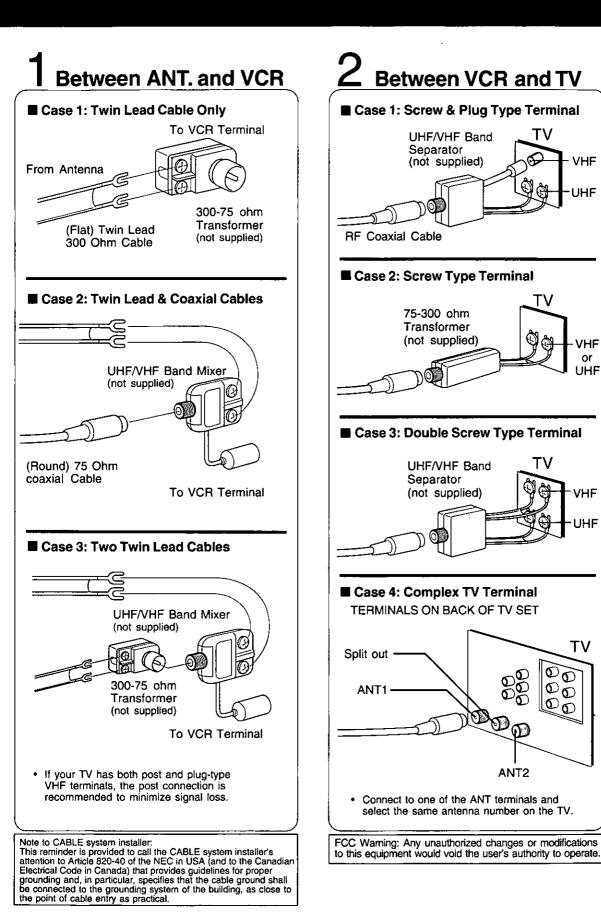
JHF

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One Time VCR Setup

When VCR is turned on the first time.

setup mode is entered automatically.

Process of Setup

Channel

VCF) T٧ (DSS

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ര \odot (9)

(100) 0

PLAY

(SELECT)

STOP

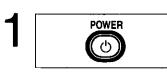
....

 (\bullet) (\bullet) (\bullet)

Clock

1 POWER

CABLE



SELECT LANGUAGE

TO CH 4.

CH 4

Turn the TV and VCR on. Press POWER*.

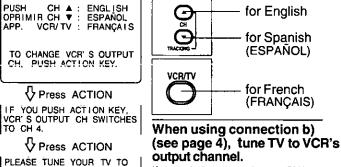
Set TV Channel to CH 3.

 If using AV Cable connection, set TV to Video instead of channel. (See connection a) on page 4.)

Display SELECT LANGUAGE.

This display appears for first time setup only.

Select the language.

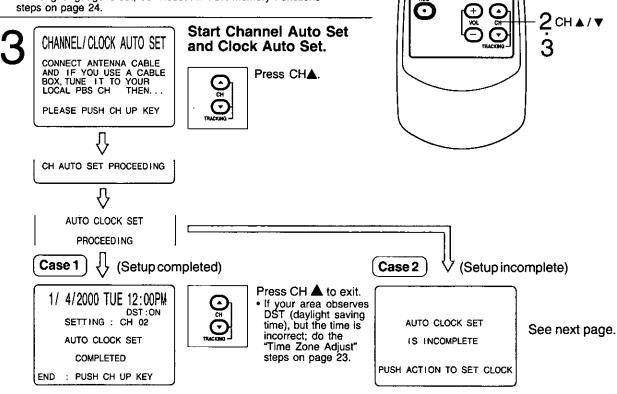


If there is beat or noise on CH3, change VCR's output channel to CH4 by pressing ACTION twice.

Always tune TV to this channel to monitor the VCR.

月 After 3 seconds

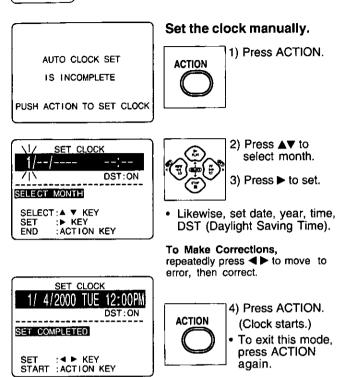
- If you used audio/video jack connection, tune the TV to its video input.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 24.

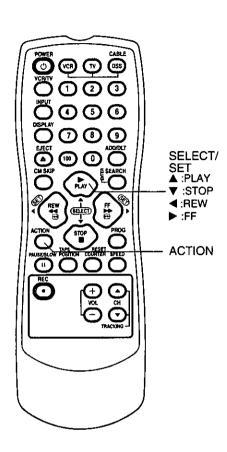


 If the displayed time is not correct. do the "Clock" section on page 22.

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

Case 2) Clock Setup incomplete.





Notes

- VCR calendar is accurately maintained to Dec. 31, 2096 11:59PM.
- Channel auto set selects normal TV or Cable channels depending on your VCR hookup.
- To reset Language, Channels, Clock or VCR's Output Channel see pages 22 and 23.

IMPORTANT NOTE FOR AUTO CLOCK SET

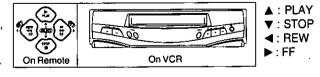
- Auto clock set is performed the first time the VCR is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time VCR power is turned off if you want auto clock set to be done.
- · If used, a DSS receiver must be turned off for auto clock set.
- If Cable Box or DSS receiver is connected to VCR via Audio/Video jacks, an RF coaxial cable must also be connected for auto clock set and channel auto set features to work.

Using **AV** keys

You can also operate the menu screen using VCR buttons.

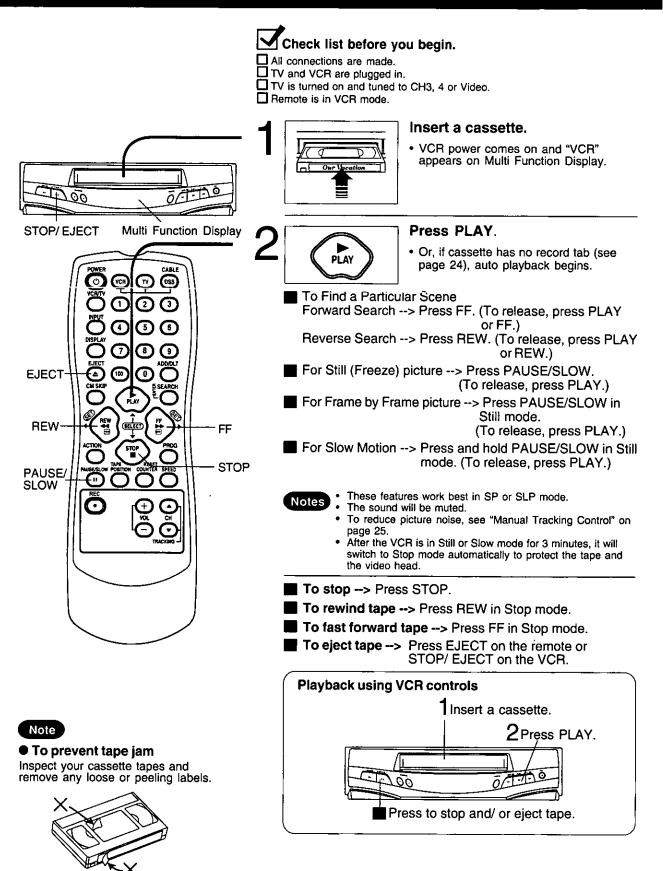
When menu screens are displayed, the PLAY, STOP, REWIND, and FF buttons on the VCR and remote function as $\blacktriangle \forall \forall \triangleright$ only with no tape inserted.

To display menu using VCR buttons, press CH \blacktriangle and CH \blacktriangledown together.



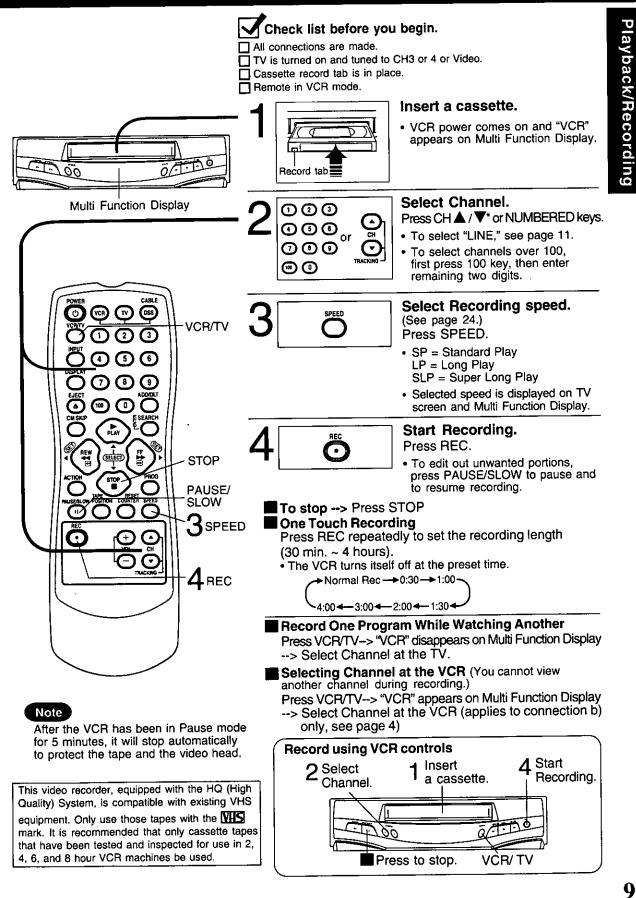
To exit the menu, repeat above.

Playback a Tape



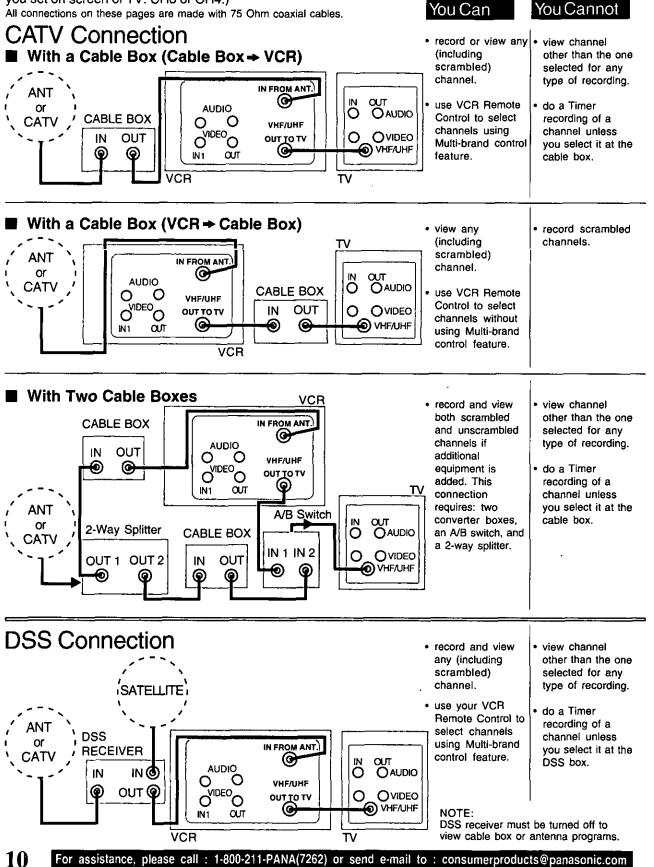
Record On a Tape

*Important: If the remote control POWER, ACTION, PROG, CH ▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

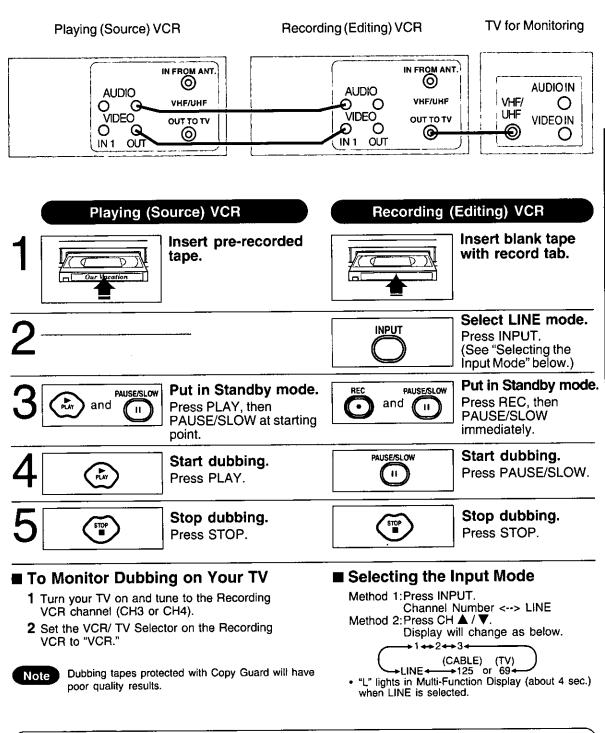


Advanced Connections

Be sure to tune TV to VCR output channel. (The same one you set on screen of TV: CH3 or CH4.) All connections on these pages are made with 75 Ohm coaxial cables.



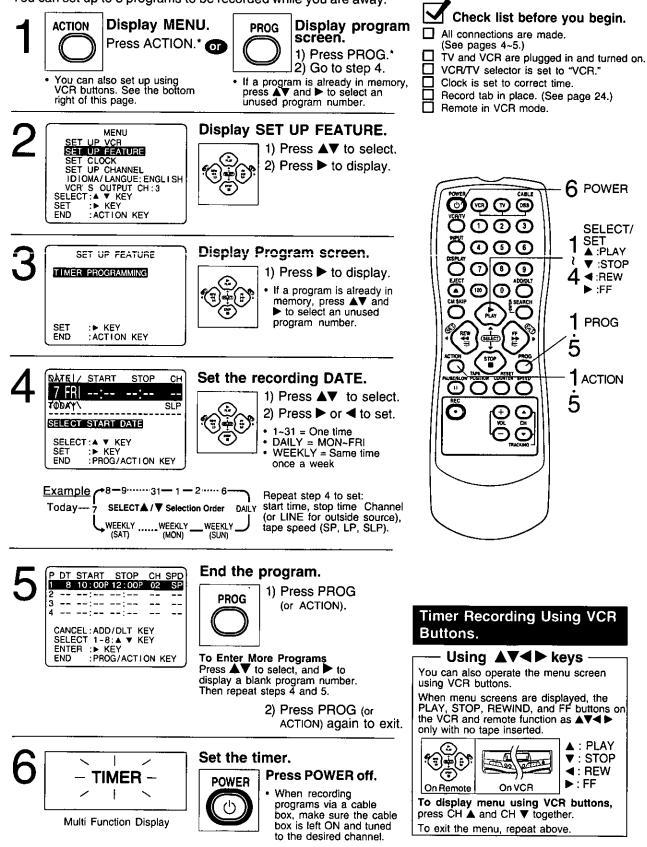
Connections you'll need to make.



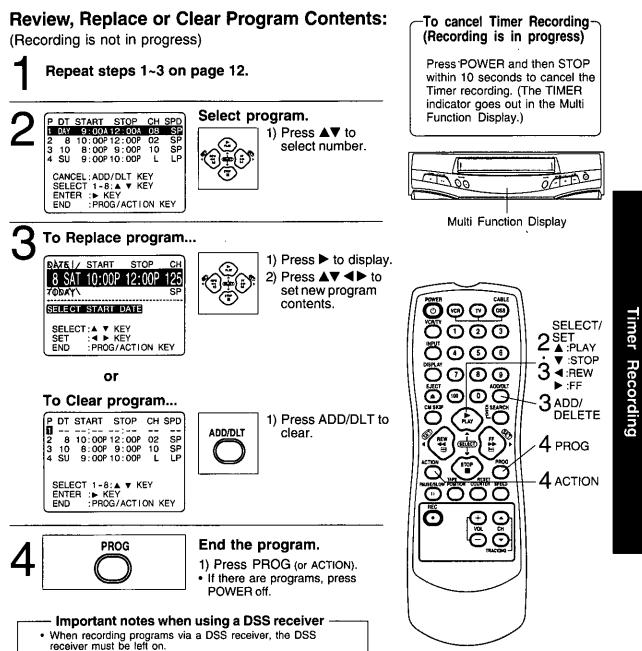
Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

Timer Recording

You can set up to 8 programs to be recorded while you are away.



*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

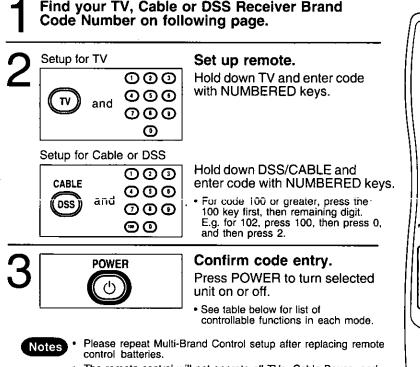


When recording programs via an antenna or cable, the DSS receiver must be turned off.

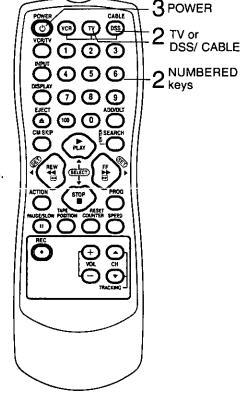
Multi-Brand Control Feature

The Remote Control may be set up to control some TV or Cable/DSS Receiver functions.

Multi-Brand Control Setup



 The remote control will not operate all TVs, Cable Boxes, and DSS receivers made by manufacturers listed. If you get no results, your particular brand cannot be controlled.



Using the Multi-Brand Control

After remote control 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 control. This table shows which buttons are available for each mode.

Available Mode Buttons		TV	CABLE/ DSS
VCR	All Functions	VOL UP/DOWN	
тν	VCR/TV, PLAY, STOP EJECT, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, RESET COUNTER, TAPE POSITION, CM SKIP	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS	VCR/TV, PLAY, STOP EJECT, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, RESET COUNTER, TAPE POSITION, CM SKIP	VOL UP/ DOWN	POWER, ENTER, NUMBERED keys (except 100key), CH UP/ DOWN

Note In TV or DSS/ CABLE mode, it may be necessary to press ENTER after pressing NUMBERED keys for channel selection.

TV Brand Code Numbers

Panasonic 01, 02	Sylvania
Quasar 01, 02	Sharp 06, 07
RCA	Sony 08
GE 03	Toshiba 09
Zenith 04	Sanyo 10
Magnavox 05	Fisher 10

JVC Hitachi	12 13 14
Gold Star 15, 16,	17

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	6 6
Curtis	7
Diamond	
Drake	
Eagle 13, 22, 58, 62, 20, 40, 26, 107	
Eastern	0
GC Brand 63, 44, 42, 30, 52, 04, 124, 126	6
Gemini	
General Electric	1
General Instruments 01, 02, 03, 04, 34, 55, 83, 106	
65, 67, 68, 115, 117, 118, 124, 9 ⁻	
Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130	
Hitachi	1
Jasco	4
Jerrold	
65, 67, 68, 115, 117, 118, 124, 9	
Macom	
Magnavox	<u>د</u>
Movietime	
NEC	
NOVAVISION	
NSC	
Oak	
Oak Sigma 46, 11, 12	
Panasonic 16, 17, 97, 10	9
Philips 07, 13, 20, 23, 24, 50, 128, 128	9
Pioneer	6
Pulsar	6

Radio Shack	
	51, 44, 59, 75, 126
	41, 102, 103, 104, 108, 130
Regency	
	01, 32, 39, 42, 44, 63, 126
Salora	68
Sheritech	
	, 42, 06, 43, 44, 52, 63, 126
Sprucer	16, 17, 97, 109 32, 39, 42, 44, 126
Standard Components	
	42, 30, 52, 04, 06, 124, 126
Texscan	
Tocom	
Viewstar 13	3, 22, 58, 62, 20, 40, 26, 107
Zenith	

DSS Brand Code Numbers

Toshiba	93 94	Panasonic	7
Magnavox/ Uniden 1		30119	0

Important Notes

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- 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 Receiver brands require you to turn on the power manually.
- · Not all functions listed may be controlled by this remote control.

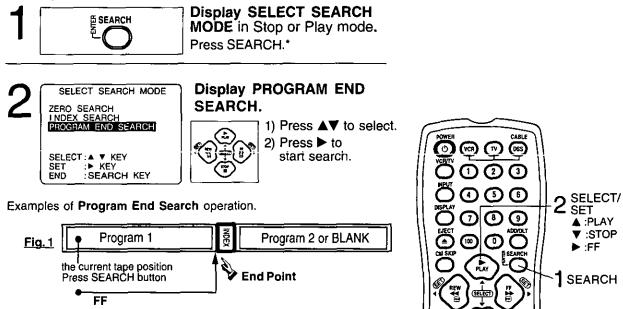
Tape Operation

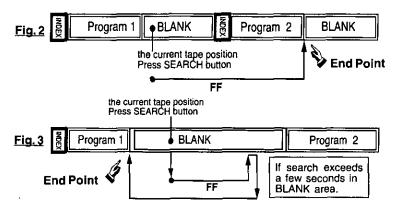
Search System

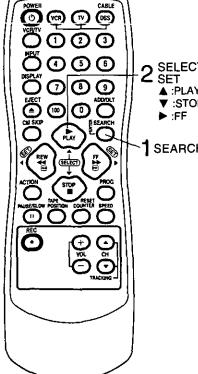
Each time a recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

Program End Search

It is easy to locate the end of a recorded program allowing you to continue recording where you left off.

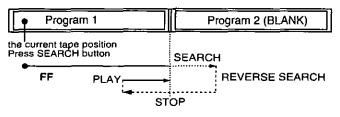






If Program End Point (🖘) is found.

The search continues slightly beyond the end point, then rewinds and plays the last few seconds of the program and finally stop.





 If Program End Search is started very close to an index mark, one program may be skipped over. ٩.

• To cancel Program End Search, press PLAY or STOP.

*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

Index Scan (For normal and /or timer recordings)

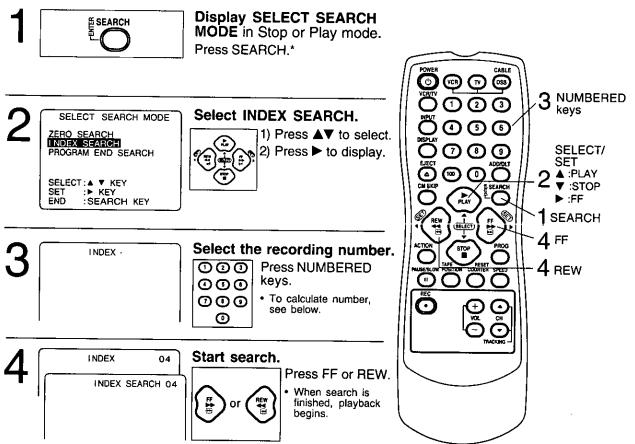
In Play mode, the first 10 seconds of each recording can be scanned Q T٧ (DSS (forward or reverse). 2 **(**3) SELECT/ **Display SELECT SEARCH 탈 SEARCH** SET MODE in Stop or Play mode. ④ \odot ത ▲ :PLAY ▼ :STOP Press SEARCH.* 7 ന 9 ► :FF 100 \mathbf{O} **4** PLAY PLAY SEARCH 3 REW SELECT) 213 SELECT SEARCH MODE Select INDEX SEARCH. 3 FF ZERO SEARCH 00 Press ▲▼ to select. STOP PROGRAM END SEARCH **3**REW Press to display. SELECT:▲ ▼ KEY SET :► KEY RE • ĒND SEARCH KEY Start scan. INDEX Press FF or REW. Cancel scan, start playback. AUTO INDEX SEARCH Press PLAY. To stop, press STOP. PLAY **Auto Operation Functions** Auto Playback <Example> Start here Insert tape --> Power turns on --> Current Program --> Starts playback if record tab (see page 24) is removed. REW--Prèss FF Auto Rewind STOP 5 1 Indexed Point STOP Playback Play (for about 10 seconds) Fast Forward or Rewind Manual Record --> Tape end --> Fast Forward -->Rewinds (Auto) Playback Auto Eject (Repeat Play is "OFF") Playback --> Tape end --> Rewinds -->Tape ejects (if without record tab) Memory Rewind Off

Rewind --> Press POWER --> -->Turns off after completed Tape Operation

Tape Operation (continued)

Direct Access (For normal and /or timer recordings)

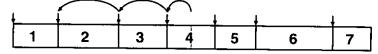
Go directly to desired recording.



To Calculate Index Number

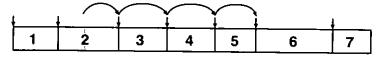
Example 1:

If you are watching recording 4 and you want to watch recording 2, enter 3 in step "3" and press REW.



Example 2:

If you are watching recording 2 and you want to watch recording 6, enter 4 in step "3" and press FF.



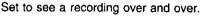
NOTE: I indicates start points of each recording.

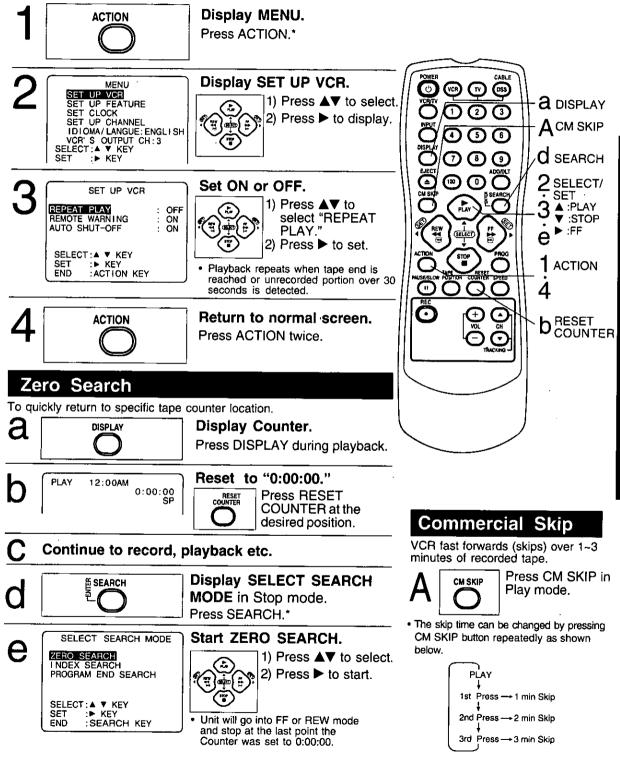


- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- If Direct Access or Index Scan is started very close to an index mark, that index mark may not be counted in the search.

*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

Repeat Play





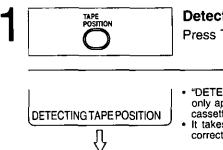
Tape Operation

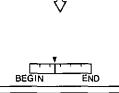
Special VCR Features

Tape Position Display Feature

To find out the present tape position.

Tape position cannot be detected for C-Cassette type and tapes less than 60 minutes.





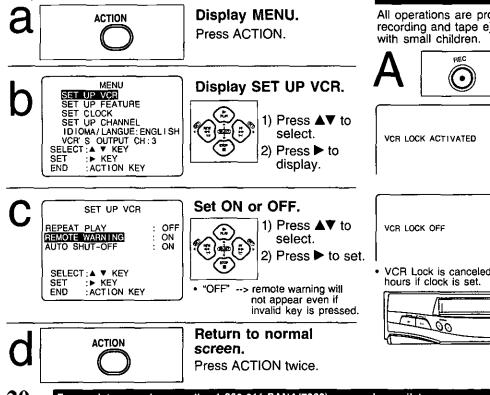
- Detect Tape Position. Press TAPE POSITION.
- "DETECTING TAPE POSITION" only appears the first time a cassette is inserted.
 - It takes several seconds for correct indication to appear.
- The present tape position indication is displayed.



Return to normal screen. Press TAPE POSITION.

Remote Warning ON/OFF Feature

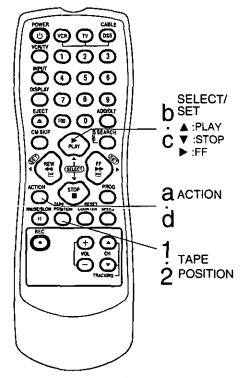
If Multi-brand feature is used (page 14), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.



Check list before you begin.

All connections are made. (See pages 4~5.) VCR is plugged in.

TV is turned on and tuned to CH3, 4 or Video.



VCR Lock Feature

All operations are prohibited except timer recording and tape eject. Useful for families



Press REC in Stop mode.

To turn on: In Stop mode, hold down REC on the VCR without a cassette inserted for 7 seconds.

To turn off: Repeat above.

VCR Lock is canceled automatically after 24

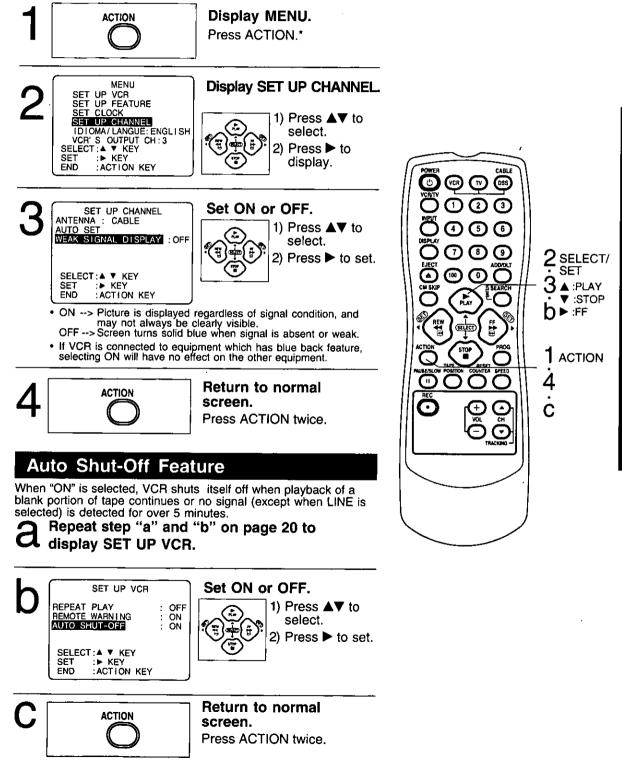


20

*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

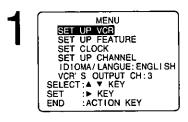
Weak Signal Display ON/OFF Feature

When "ON" is selected, picture is displayed even when broadcast signal is weak or nonexistent.



Special VCR Features

Reset Language, Channels, Clock, VCR's





Display MENU. Press ACTION.*



SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE; ENGLISH
VCR'S OUTPUT CH:3
SELECT : A V KEY
SET : KEY
END : ACTION KEY

2) Press ► repeatedly.





For Spanish

MENU
REGLAGE MAGNETOSCOPE
REGLAGE MAGNETO SUPPLEM
REGLAGE HORLOGE
REGLAGE CANAL
LANGUAGE/ IDIOMA : FRANÇAIS
CA SORTIE:3
SEL. :▲ ▼
REGLER :
FIN ACTION

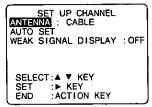
For French

Channels

1) Press ▲▼ to select SET UP CHANNEL.

	MENU UP VCR UP FEATURE
SET	CLOCK UP CHANNEL
VCR'	MA/LANGUE: ENGLISH SOUTPUT CH: 3
SET	T:A ▼ KEY :► KEY
END	: ACTION KEY

2) Press ►.



- Press ▲▼ to select "ANTENNA," then press ▶ to set your antenna system (TV or CABLE).
- 4) Press ▲▼ to select "AUTO SET," then press ►.
- If you use a cable box, set it to the PBS channel in your time zone.

CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PUSH CH UP KEY

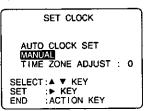
(This screen appears only when auto clock is set.)

- 5) Press CH ▲.
- Clock Auto Set will be performed when channels are replaced in memory.



 Press ▲▼ to select SET CLOCK.

2) Press ►.



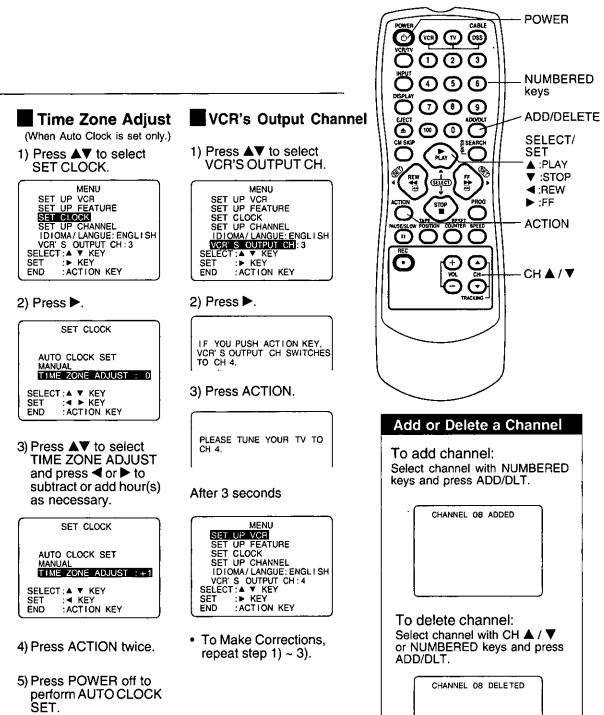
- ("TIME ZONE ADJUST" appears only when auto clock is set.)
- Press ▲♥ to select MANUAL and press ►.
- For Auto Clock Set, select "AUTO CLOCK SET," then press CH ▲.

1/ 4	SET 0 /2000	TUE		
SELECT	HOUR			
SELEC SET END	V ≜:T ► ACT	KEY	(EY	

- 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.

Output Channel

*Important: If the remote control POWER, ACTION, PROG, CH▲/♥, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



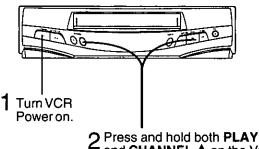
• TIME ZONE ADJUST returns to "0" if clock is set manually.

1

VCR & Cassette Information

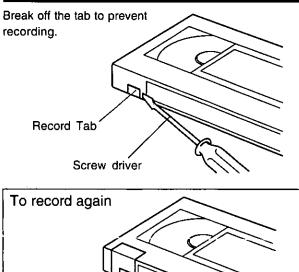
Reset All VCR Memory Functions

Use when moving VCR to new location, or if a mistake was made in the One Time VCR Setup section. • Make sure a tape is not inserted in the VCR.



3 Do "One Time VCR Setup" steps on page 6.

Prevent Accidental Tape Erasure



Cover the hole with cellophane tape.

DST (Daylight Saving Time)

VCR auto adjusts clock for DST. (Page 7.)

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.

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 (Super Long Play)	3 Hours	6 Hours	8 Hours	

Head Cleaning

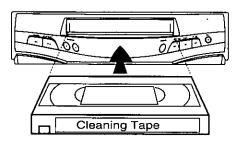
Playing older or damaged tapes may eventually cause video heads to become clogged.

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 KEY

• 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 28.)

Specifications

Power Source: Power Consumption:	120 V AC, 60 Hz <u>Power On</u> Approx. 18 watts <u>Power Off</u>
Video Signal:	Approx. 3.3 watts · EIA Standard NTSC color
Video Recording System:	
Audio Track:	1 track (Normal)
Tuner:	
Broadcast Channels:	VHF 2~13, UHF 14~69
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 5A (01) Ultraband 65~94, 100~125
Operating Temperature	:5 °C~40 °C (41 °F~104 °F)
Operating Humidity:	10 %~75 %
Weight:	3.0 kg (6.6 lbs.)
Dimensions:	380 (W) x 93 (H) x 250 (D) mm 14-15/16" (W) x 3-11/16" (H) x 9-3/4" (D)

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

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.

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) \blacktriangle / \checkmark 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.

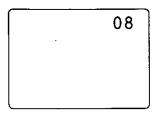




<u>V-Lock Control (to reduce picture jitter)</u> In Still mode, CH (TRACKING) ▲ / ▼ buttons operate as a V-Lock control.

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

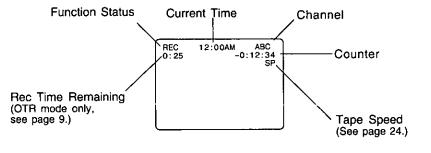
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 21) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

To display or remove the overlay at right.



Press DISPLAY.



Warning and Instruction Displays

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

instructions.					_
OSD	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH VCR CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY	6	TO CANCEL TIMER REC PUSH POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording (visible in VCR mode only)	12
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording and the Clock is not set	12	VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY KEY	If head cleaning becomes necessary while playing back a tape	25
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set	12	VCR LOCK ACTIVATED	If you press a function button other than STOP/ EJECT or POWER while the VCR is in VCR Lock mode	20
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	24	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE TV : TV KEY	If you press any invalid keys on the remote while in CABLE/DSS mode	14 15 20
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted	8 9	REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press any invalid keys on the remote while in TV mode	14 15 20

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 hook up selection. (P.4~5) Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.22]) Make sure cassette record tab is intact. (P.24)
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.12) Make sure POWER button is set to off. (P.12,13) Timer recording may not be performed or continued if a power interruption of more than 1 minute 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.6) or select LINE. Set VCR/TV selector to "VCR." Adjust TRACKING control in either direction. (P.25) Try Head Cleaning. (P.25)
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 LOCK is set to off. (P.20) Make sure remote is in proper mode.(P.14) Make sure Timer Record is not in progress.
Remote Control	Correction
VCR cannot be remote controlled	 Aim Remote Control directly at remote sensor on VCR. (P.32) Avoid any object blocking signal path. Check remote batteries. (P.4) Make sure VCR LOCK is set to off. (P.20) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons cannot be used	 Press VCR button for VCR mode. (P.14) Check remote batteries. (P.4)
Miscellaneous	Correction
Programs cannot be viewed on TV	 Set VCR/TV selector to "TV." (P.9) 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.24)
In Stop mode, the motor (CYLINDER) continues to rotate	 To enable Quick play mechanism, the cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.
The top of the playback picture waves back and forth excessively	 Because VCR playback signal is not as stable as off-the-air TV signal, top of TV screen may be bent or unstable during playback. Slowly turn TV horizontal Hold control to correct. If your TV has no horizontal Hold control or adjusting control is ineffective, contact your nearest TV service center.

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 201-348-9090. 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)

Factory Servicenters Locations

CALIFORNIA 6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

COLORADO 1640 South Abilene Street Suite D Aurora, CO 80012

FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020 GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS 9060 Golf Road Niles, IL 60714

1703 North Randall Road Elgin, IL 60123 (Pick-up / Drop-off only)

MARYLAND 62 Mountain Road Gien Burnie, MD 21061

MASSACHUSETTS 60 Glacier Drive Suite G

Westwood, MA 02090

MICHIGAN 37048 Van Dyke Avenue Sterling Heights, MI 48312

MINNESOTA 7850-12th Avenue South Airport Business Center Bloomington, MN 55425

OHIO 2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA 2221 Cabot Blvd. West Suite B Langhorne, PA 19047 TENNESSEE 3800 Ezell Road Suite 806

Suite 806 Nashville, TN 37203

TEXAS 13615 Welch Road Suite 101 Farmers Branch, TX 75244

WASHINGTON 20425-84th Avenue South Kent, WA 98032

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

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 Infanteria, 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 CAMCORDER	PARTS ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	<u>LABOR</u> NINETY (90) DAYS NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

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 1-800-211-PANA (7262), 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 required 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 TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

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

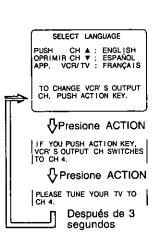
If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

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 10/20/99

Para ajustar el idioma, canal y reloj

Encienda el televisor y la videograbadora. Presione POWER.

 Si se utiliza un cable de conexión AV, sitúe el TV en la posición Vídeo en lugar de en la posición canal. (Véase el punto a, en la página 4).



2



Visualización de

Seleccione el idioma.

SELECCIÓN DE IDIÓMA.

Esta visualización aparece sólo

cuando realice la configuración

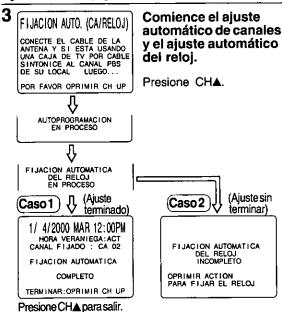
para Francés (FRANÇAIS)

Si se utiliza la conexión b) (véase la página 4), sintonícelo en el canal de salida de VCR.

Si la imagen tiene oscilaciones o ruido cuando el equipo esté situado en VCR OUTPUT CH3 cambie a CH4 pulsando ACTION dos veces.

Luego, sintonice el TV en el CH4.

- Sintonice siempre el TV a este canal para monitorizar la video grabadora.
- Si utilizó la conexión del conector audio/video, sintonice el TV a su entrada de video.
- Si se ajusta el idioma equivocado, realice los pasos de "Reajuste de todas las funciones de memoria de la video grabadora" en la página 24.



(Caso2) El ajuste del reloj es incompleto.

Ajuste el reloj manualmente.

- 1) Presione ACTION.
- Presione ▲▼ para seleccionar el mes.
- Presione > para ajustar.
 - · De la misma manera, ajuste el día, el año, la hora y la hora de ahorro de energía (VERANO). Para hacer correcciones, presione repetidamente < para moverse hasta el error, luego corríjalo.
- Presione ACTION. (El reloj se activa.)
 - Para salir de este modo, pulse la tecla ACTION nuevamente.

Ajustar de nuevo el reloj

Presione ACTION para exhiba el menú.



5 Presione ACTION dos veces para <u>que el reloi</u> comience a funcionar y salir desde este modo.

Operaciones básicas para la reproducción

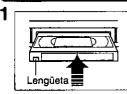
Inserte un casete.

· La videogrababora se enciende automáticamente.

2 Presione PLAY.

- O, si el casete no tuviera la lengüeta de grabación (véase la página 24), se inicia la reproducción automática.
- Para encontrar una escena en particular Búsqueda hacia adelante ---> Presione FF. Búsqueda hacia atrás ---> Presione REW.
- Para ver una imagen fija (congelada) ---> Presione PAUSE/SLOW.
- Para ver imágenes cuadro a cuadro ----> Presione PAUSE/SLOW en el modo de imagen fija.
- Para ver en cámara lenta ---> Mantenga pulsado el botón PAUSE/SLOW en el modo de imagen fija.
- Para parar ---> Presione STOP.
- Para hacer avanzar la cinta rápidamente ----Precione FF
- Para rebobinar la cinta
 Para expulsar la cinta
- ---> Presione REW. ---> Presione STOP/ EJECT en el viideogrababora.

Operaciones básicas para la grabación



- Inserte un casete.La videogrababora se
- enciende automáticamente.

2 Seleccione el canal.

Presione CH ▲▼ o las teclas numéricas correspondiente.

3 Seleccione la velocidad de grabación. Presione SPEED.

- SP = Reproducción estándar,
- LP = Larga duración,
- SLP = Superlarga duración.

4 Comience la grabación.

Presione REC.

- Presione PAUSE/SLOW para hacer una pausa en la grabación en progreso.
- Para parar ---> Presione STOP.

📕 Grabación de un toque

Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).

 La videograbadora termina la grabación a una hora programada.

≁ Grabación normal -+0:30 -+1:00 -

Programación fácil para la grabación con temporizador

1 Exhiba el menú. Exhiba la pantalla de la programación. Presione ACTION.* Si ya existe un programa en la memoria, presione ▲▼ y ► para seleccionar un número de programa sin usar. Exhiba "FIJACION DE 2 MENU MENU PREPARARI VCR (FIJACION DE FUNCIONES) FIJAR RELOJ FIJAR CANAL LANGUE/LANGUAGE : ESPAÑOL FUNCIONES. 1) Presione ▲▼ para seleccionar. SALIDA DE VCR CANAL:3 ELEGIR:▲ ▼ Presione para exhibir. FIJAR : Exhiba 'TEMPORIZADOR." 3 FIJACION DE FUNCIONES TEMPORI ZADOR Presione > para exhibir. · Si ya existe un programa en la memoria, presione ▲▼ y ► para seleccionar un número de programa FIJAR :► TERMINAR:ACTION sin usar. Ajuste la fecha de 4 RECNA/ INICIO PARADA C/ arabación. 7 VIE --:--MOY/IN SLF Presione ▲▼ para ELEGIR FECHA DE INICIO seleccionar. ELEGIR:A V 2) Presione > o < para FIJAR : FIJAR TERMINAR: PROG/ACTION ajustar. 1~31 = Grabación única DIARIO = a la misma hora de lunes a viernes SEMANA = a la misma hora una vez a la semana. Ejemplo ▲/▼ Orden para elegir DIARIO Fecha de hoy SEMANAL SEMANAL SEMANAL (SAB) (LUN) (DOM) Repita el paso 4 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP). Termine el programa. 5 INIC PARADA CA VEL P FE 1 8 10:00P12:00P 02 SP 1) Presione PROG -- --:-- --:-- --2 __ __ ._ ._ ._ ._ ._ . (o ACTION). -- -- -- -- -- -- -- -- ---Para introducir más CANCELAR: ADD/DLT ELEGIR 1-8: A T ENTRAR : programas. TERMINAR: PROG/ACTION Presione ▲▼ y ► para seleccionar y ajustar el número de programa en blanco. Luego repita los pasos 4 y 5. 2) Presione PROG (o ACTION) para salir. Grabación con 6 temporizador. TIMER – Presione POWER para apagar. Pantalla multifuncinal Si la fuente de la grabación es una caja de TV por cable, asegúrese de que la caja de TV por cable esté encendida y esté sintonizada al canal

que desea grabar.

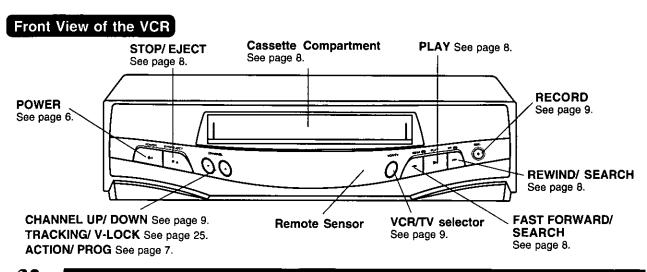
Location of Controls

Remote control Buttons

-

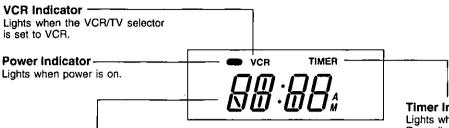
VCR mode	\sim	TV mode
See page 14.	POWER CABLE	DSS/ CABLE mode
POWER See page 6.	┼❹@๊℗℗́	See page 14.
VCB/ TV		
See page 9.		See page 9.
		ADD/ DELETE
See page 11.		See page 23.
DISPLAY		
		See page 8.
See page 8.	CM SKIP	SELECT UP See page 7.
		See page 7.
See Page 19.		See pages 16~19.
		FAST FORWARD/ SEARCH
See page 8. SET	ACTION STOP PROG	See page 8.
See page 7.	PAUSESLOW POSITION COUNTER SREED	SET See page 7.
ACTION	PAUSE/SLOW POSITION COUNTER SREED	PROGRAM
See page 22.	REC	See pages 12, 13.
PAUSE/ SLOW		STOP
See page 8.	VOL CH	See page 8. SELECT DOWN
RECORD See page 9.		See page 7.
See page a.		SPEED
		See page 9.
See page 20.	\sim \sim	RESET COUNTER See page 19.
X	r	CHANNEL UP/ DOWN See page 9.
VOLUME UP/ DOWN		
See page 14.	\smallsetminus \checkmark	See page 25.

EJECT button: When EJECT is pressed, the tape is ejected from Cassette Compartment. If EJECT is pressed during recording, the VCR will not respond to the command.



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

Multi Function Display

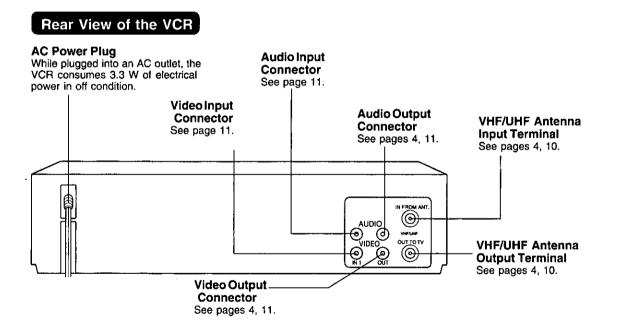


Clock/ Status/ Channel/ Speed Display

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

Timer Indicator

Lights when the VCR is set for a Timer Recording, or when a length is set for a normal recording (OTR). Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.



Memo

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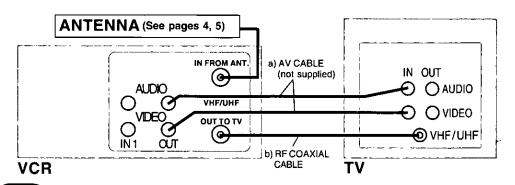
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Quick Use Guide

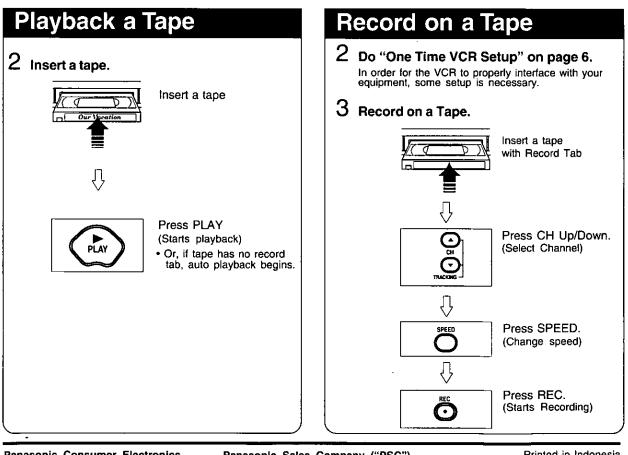
1 Make all connections (page 4).

Connect VCR and TV with AV Cable (not supplied) or RF Coaxial Cable (accessory) as shown below. To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO."



Notes 1) While connection b) (above) is sufficient, connection a) offers better sound and picture.

- 2) For both connections a) and b) proceed as follows:
 - To use VCR : VCR Power on, set TV to VIDEO.
 - To watch TV : VCR Power off, select channel on.
- 3) When using connection b) (see page 4), tune to VCR's output channel.
- 4) Set VCR's Output to channel 3 or 4 (not an active station). (See page 6.)



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