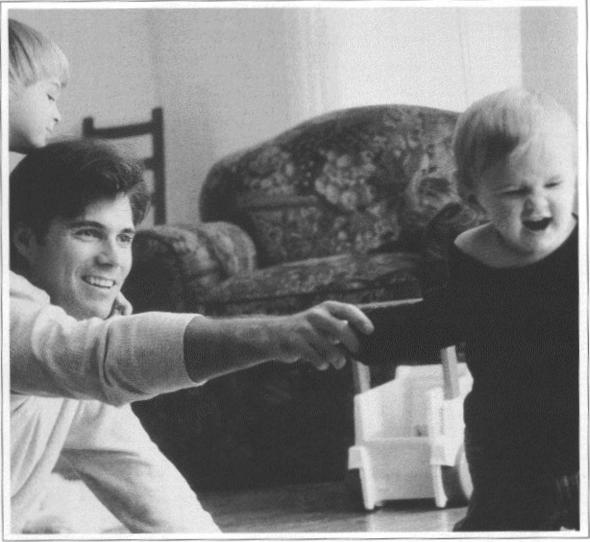
ForYour Information



Panasonic

Video Cassette Recorder Operating Instructions Model No. PV-V4530S



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.)

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.





LSQT0241A

Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION

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

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

ARIZED PLUG CAUTION: POI

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.

2 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.

4 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 5 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 causing serious injury to a child or adult and damage to the unit.



- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the
- appliance and cart combination to overturn. · Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

Safety Precautions

OUTDOOR ANTENNA INSTALLATION

SAFE ANTENNA AND CABLE CONNECTION 1 If an outside antenna or cable system be sure the antenna or cable system ANTENNU LEAD PI is grounded so as to provide some protection against built up static charges and voltage surges. SPOU CLAN Section 810 of the National Electrical Code, ANSI/NFPA 70 ELECTRIC SERVICE OROUNDING CONDUCTOR (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 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. KEEP THIS VIDEO UNIT AWAY FROM WATER OR 1

- MOISTURE OF ANY KIND.
- IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR 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.

5 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

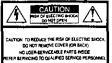
If, after carefully following the detailed operating instructions, this Video product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

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.

3 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. 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.



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.

This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause

Table of Contents

Use Now!	Important Safeguards and Precautions Accessories Loading the Batteries Basic Connections (Antenna, VCR, TV)	4 5 7 8	Basic Operation
Enjoy more!	Advanced Connections (Cable/DSS) 1 Copying Your Tapes (Dubbing) 1 Timer Recording 12 • Timer Recording • Review, Replace or Clear Using VCR Buttons 12 Timer Recording Using VCR Plus+® System 14 ~ 1 • Choose your connection type 14 • Cable Box Setup 15 • VCR Plus+ System Channel Setup 16 • Cable Box Setup 15 • VCR Plus+ System Programming 17 Multi-Brand Control Feature 18, 1 Tape Operation (Search System) 20 ~ 2 • Program End Search 20 • Index Scan 21 • Auto Operation Functions 21 • Direct Access 22 MTS Broadcast/ VHS Hi-Fi Stereo System 24, 2 • Stereo/SAP/Mono Broadcast 24 • Select Audio Mode 25 Special VCR Features 26, 2 • Tape Position Display 26 • Weak Signal Display ON/OFF 27 • Auto Shut-Off 27 • CR Lock 26	11 13 17 19 23 25	Advanced Operation
Other Information!	Reset Language, Channels, Clock, VCR's Output Channel 28, 2 VCR & Cassette Information 30, 3 • Reset All VCR Memory Functions 30 • Head Cleaning	31 32 33 35 37 9	ForYour Information

Before Using

Basic Connection

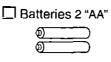
Congratulations

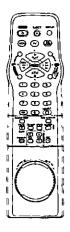
on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your VCR.

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

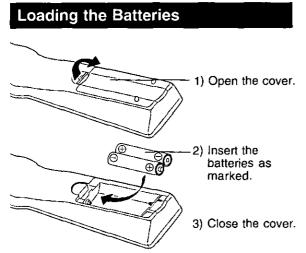
Accessories

Remote Control LSSQ0231







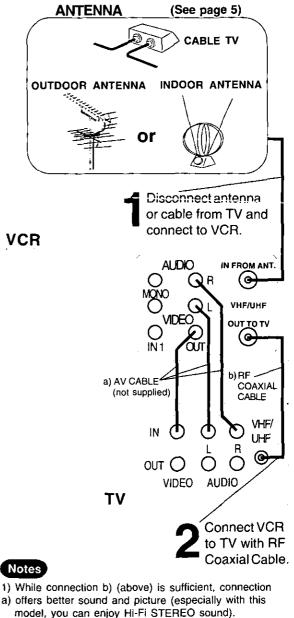


Battery replacement caution

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

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 an AV Cable (not supplied) or a RF Coaxial Cable (supplied) as shown in the figure below.

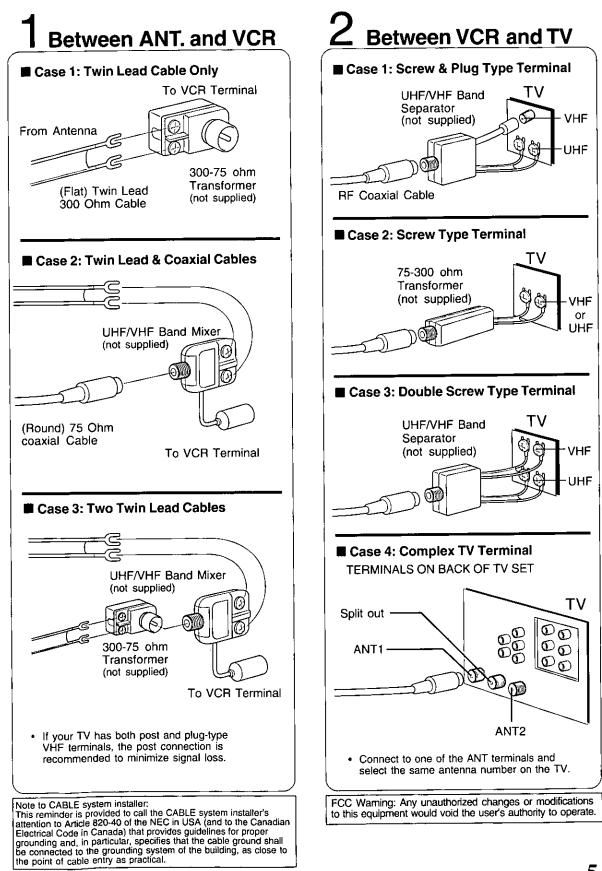


- 2) For both connections a) and b) proceed as follows:
 To use VCR : VCR Power on, set TV to VIDEO.
 To watch TV : VCR Power off, select channel on.
- Set VCR Output to channel 3 or 4 (not an active station). (See page 6.)
 Use the L Audia OUT jack for proper sound

Use the L Audio OUT jack for proper sound reproduction when connecting to a monaural TV.

WARNING

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



One Time VCR Setup

When VCR is turned on the first time,

setup mode is entered automatically.

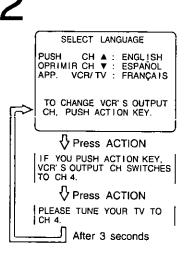
Process of Setup

Language |=> | Channel | =>



Turn the TV and VCR on. Press POWER*.

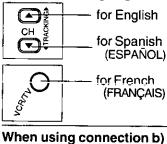
Set TV Channel to CH 3.
If using AV Cable connection, set TV to Video instead of channel. (See connection a) on page 4.)



Display SELECT LANGUAGE. This display appears for first time setup

only.

Select the language.

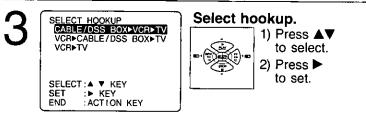


When using connection b) (see page 4), tune TV to VCR's output channel.

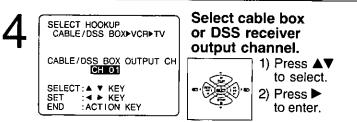
If there is beat or noise on CH3, change VCR's output channel to CH4 by pressing ACTION twice.

• Always tune TV to this channel to monitor the VCR.

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 30.



 If you selected "CABLE/ DSS BOX ► VCR ► TV," continue with step 4 and only the cable box output channel will be placed in memory. If not, go to step 6.

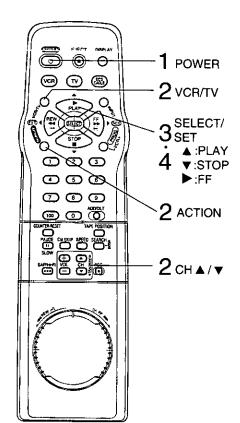


· If necessary, refer to cable box manual.

· If you used Audio/ Video jack connection to cable box, set "VIDEO OUT".

Turn on cable box and set it to PBS channel in your time zone.

If you use DSS receiver, it must be turned off.

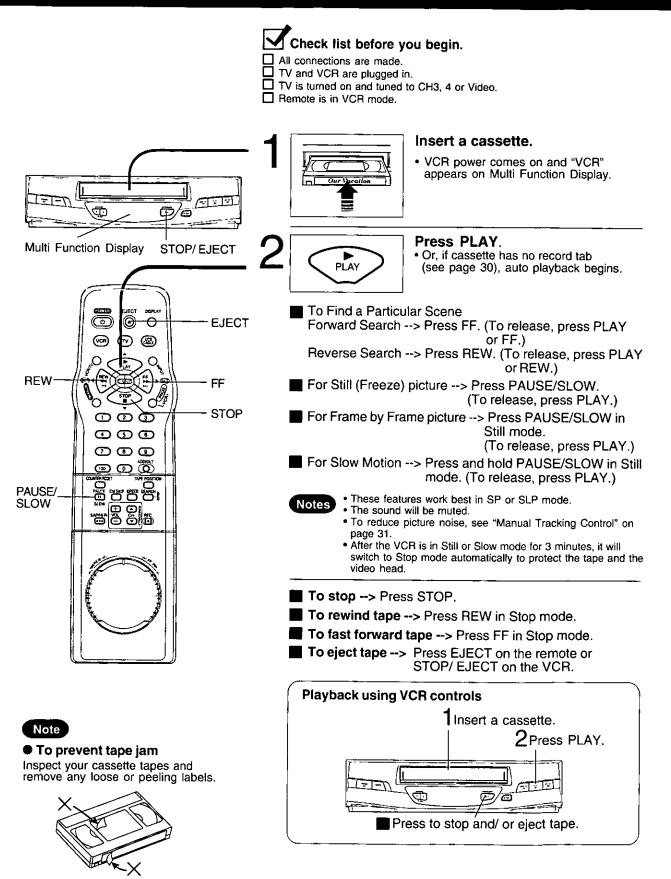


*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

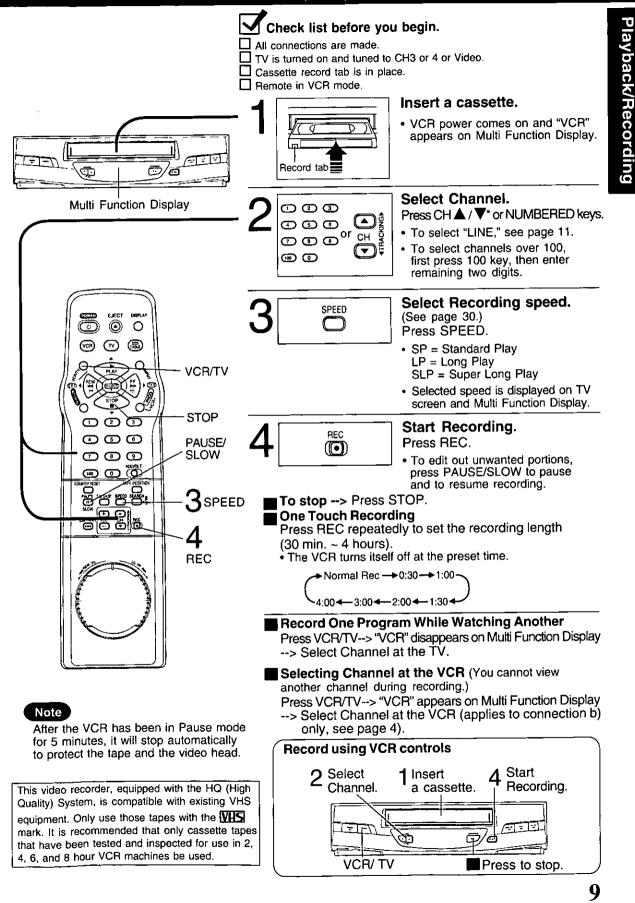
Start Channel Auto Set IMPORTANT NOTE FOR CHANNEL/CLOCK AUTO SET and Clock Auto Set. AUTO CLOCK SET CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN... Auto clock set is performed the first time the VCR is turned off Press CH A. each day. If used, a cable box must be left on and tuned to the PLEASE PUSH CH UP KEY 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 CH AUTO SET PROCEEDING turned off for auto clock set. · If Cable Box or DSS receiver is connected to VCR via Audio/Video \mathcal{O} jacks, an RF coaxial cable must also be connected for auto clock AUTO CLOCK SET set and channel auto set features PROCEEDING to work. (Setup completed) Case 2 (Setup incomplete) Case 1 Clock Setup incomplete. 1/ 4/2000 TUE 12:00PM Set the clock manually. DST : ON СН AUTO CLOCK SET SETTING : CH 02 1) Press ACTION. • IS INCOMPLETE AUTO CLOCK SET Press CH COMPLETED PUSH ACTION TO SET CLOCK to exit. END : PUSH CH UP KEY If your area observes DST (daylight Press ▲▼ to do the "Time Zone Adjust" steps on page 29. SET CLOCK select month. 1/--DST: ON 1 Press ► to set. SELECT MONTH Likewise, set date, year, time, SELECT:▲ ▼ KEY DST (Daylight Saving Time). SET : KEY ACTION KEY **FND** CONTR To Make Corrections, repeatedly press ◄ in move to \odot 0 **)** error, then correct. SET CLOCK SELECT/ \bigcirc **(**) (VCR) 4/2000 TUE 12:00PM SET 4) Press ACTION. E:PLAY DST: ON ▼:STOP (Clock starts.) SET COMPLETED REW To exit this ► :FF mode, press SET KEY SET : ◄ ► KEY START : ACTION KEY ACTION again. ACTION 23 (1) (2) (3) Notes VCR calendar is accurately maintained to ന \odot Dec. 31, 2096 11:59PM. 0 Channel auto set selects normal TV or Cable channels depending on your VCR hookup. **8** Ĩ To reset Language, Channels, Clock or Ū,₩ CH 🔺 VCR's Output Channel see pages 28 and 29. - Using ▲▼◀▶ keys You can also operate the menu screen using VCR buttons. When menu screens are displayed, the PLAY, STOP. REWIND, and FF buttons on <u>....</u> 7₆₀ the VCR and remote function as $\blacktriangle \forall \blacktriangleleft \triangleright$ only with no tape On VCR On Remote inserted. 🛦 : PLAY 🖪 : REW To display menu using VCR buttons, press CH ▲ and CH ▼: STOP ►: FF together. To exit the menu, repeat above.

One Time VCR Setup

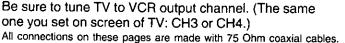
Playback a Tape

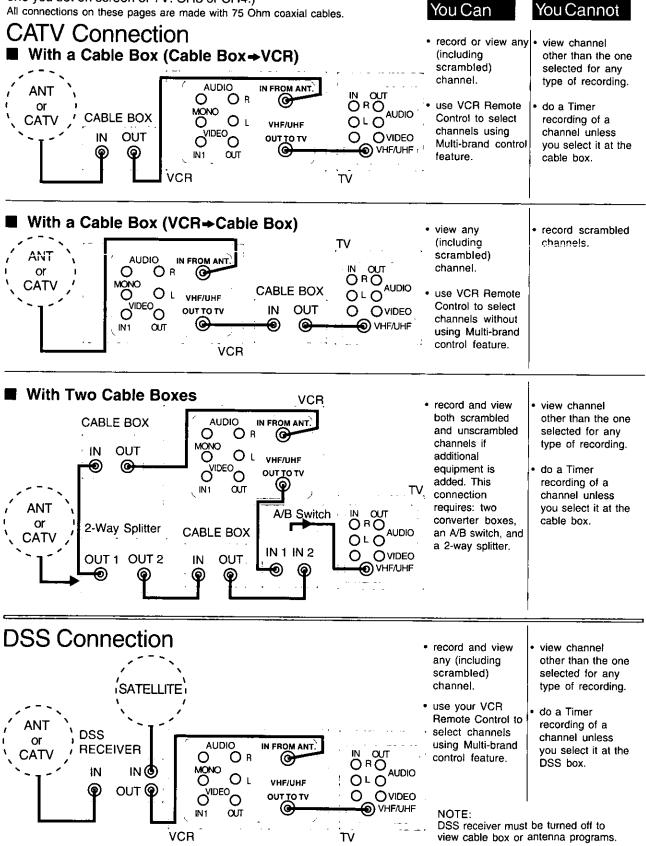


Record On a Tape 'Important: If the remote control POWER, ACTION, PROG/VCR+, CH A/V, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



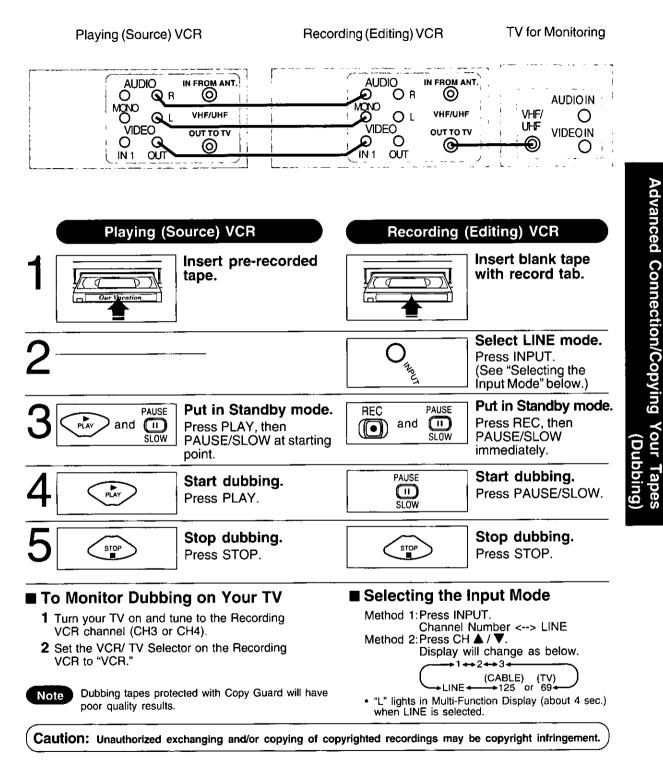
Advanced Connections





Copying Your Tapes (Dubbing)

Connections you'll need to make.



Timer Recording

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

Display SET PROGRAM.

Press PROG/VCR+,*

Or to display Program screen from the Menu.

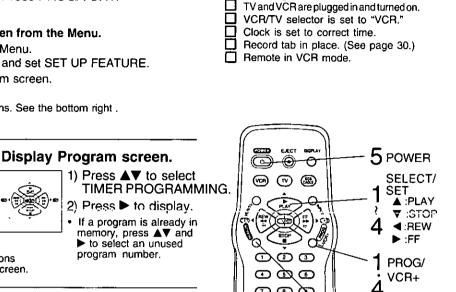
- 1) Press ACTION to display Menu.
- Press ▲▼ and ▶ to select and set SET UP FEATURE.
- Press to display Program screen.
- Go to step 3.

SET PROGRAM

TIMER PROGRAMMING

VCR Plus+ PROGRAMMING

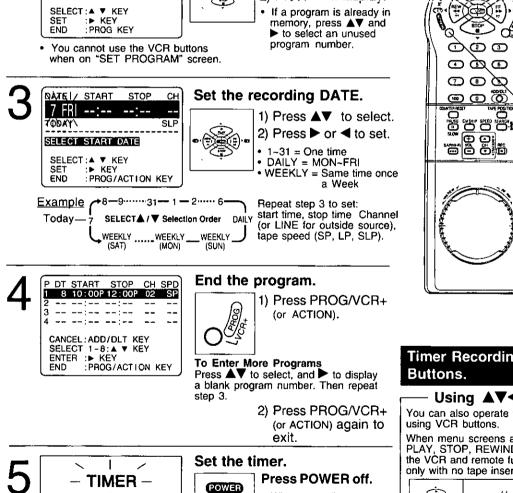
· You may also use VCR buttons. See the bottom right .



Check list before you begin.

All connections are made.

(See pages 4~5.)



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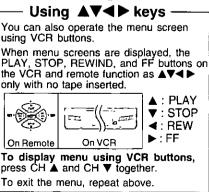


. When recording programs via a cable box, make sure the cable box is left ON and tuned to the

desired channel.

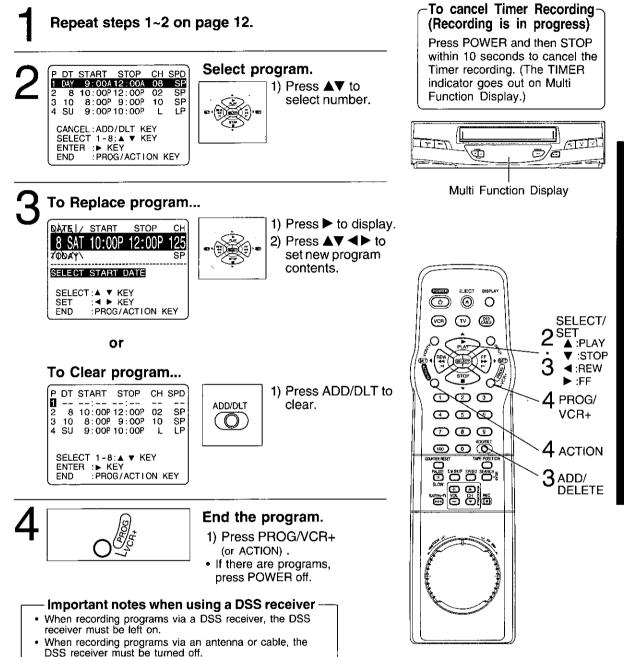
Timer Recording Using VCR

ACTION



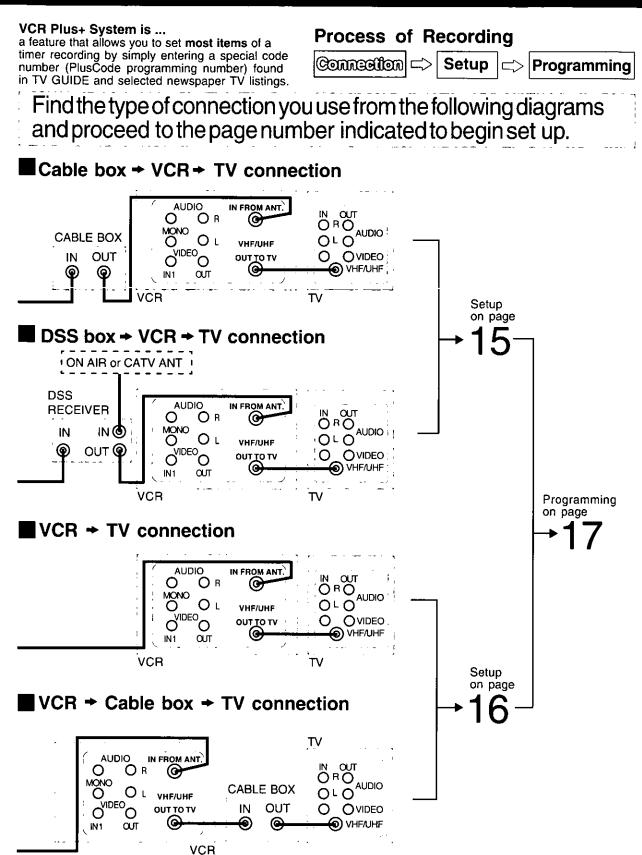
Review, Replace or Clear Program Contents:

(Recording is not in progress)

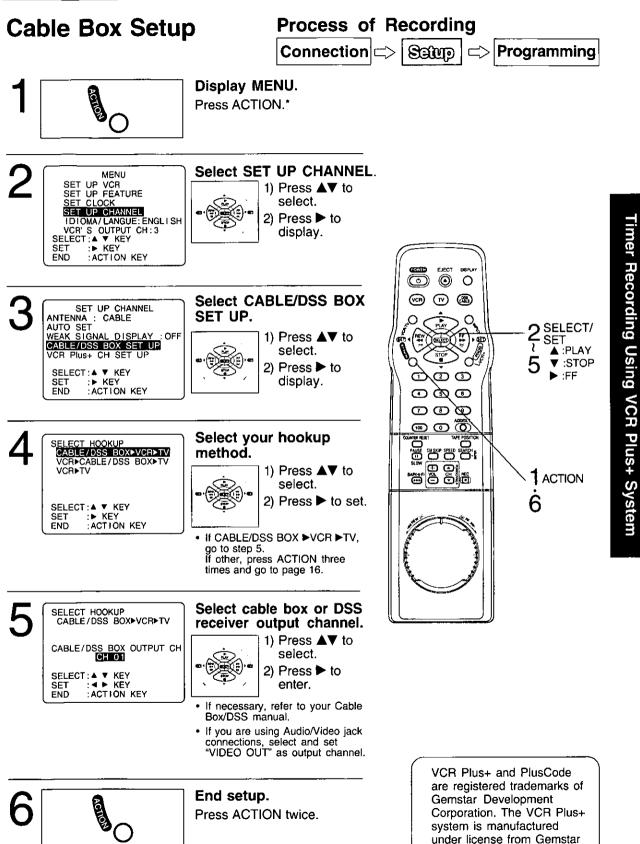


Timer Recording

Timer Recording Using VCR Plus+® System



Important: If the remote control POWER, ACTION, PROG/VCR+, 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.



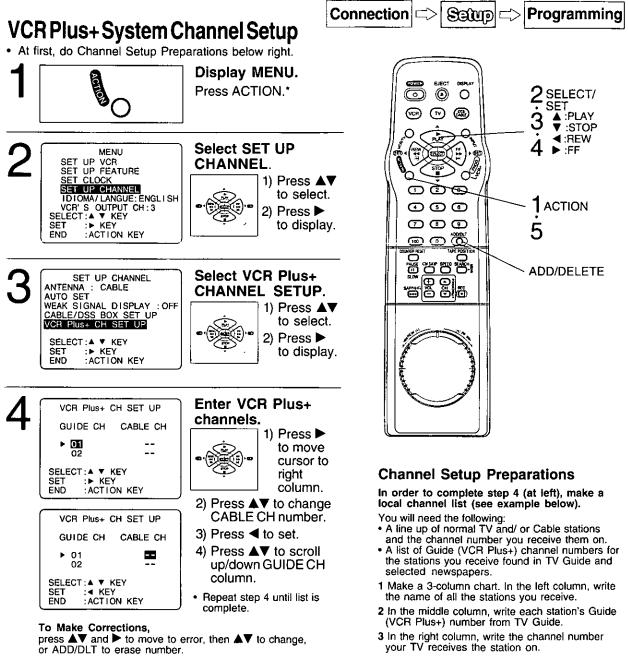
15

Development Corporation.

Timer Recording Using VCR Plus+® System (continued)

Process of Recording

It is necessary to program the VCR with local channel information for proper VCR Plus+ System operation.





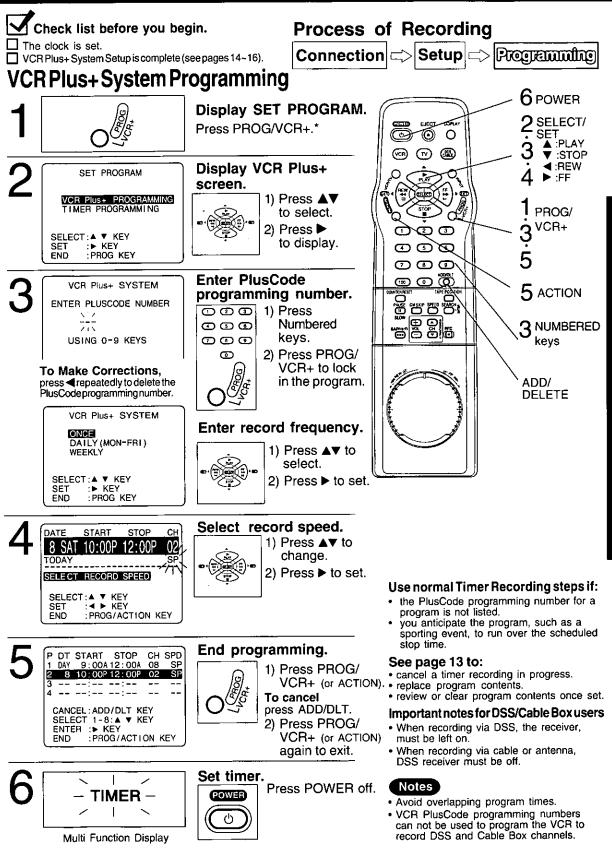
End setup.

Press ACTION three times.

Notes

- · Make each entry within 5 minutes or the VCR will exit this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.
- EXAMPLE ONLY Channel no. Assigned Broadcast or your TV Guide Cable (VCR Plus+) receives the Station Name channel no. station on HBO 33 15 Nickelodeon 20 38 CBS 04 04 FOX 11

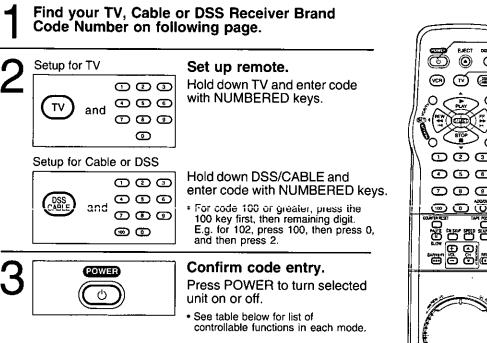
*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

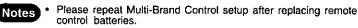


Multi-Brand Control Feature

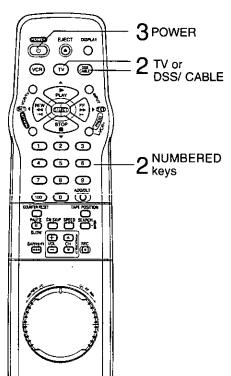
The Remote Control may be set up to control some TV or Cable/DSS Receiver functions.

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.



'n

Using the Multi-Brand Control

After remote control is setup, 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 Buttons		TV	CABLE/ DSS
VCR	All Functions	VOL UP/DOWN	
TV	VCR/TV, PLAY, STOP EJECT, SAP/Hi-Fi, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET, TAPE POSITION, CM SKIP	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS	VCR/TV, PLAY, STOP EJECT, SAP/Hi-Fi, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET, 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

Panasonic01, 02	Sylvania05	JVC 11
Quasar 01, 02	Sharp 06, 07	Hitachi 12
RCA	Sony 08	Mitsubishi 07, 13
GE 03	Toshiba 09	Samsung 14
Zenith 04	Sanyo 10	Gold Star 15, 16, 17
Magnavox 05	Fisher 10	

Cable Box Brand Code Numbers

	0-1-0
Archer	Oak Sigma 46, 11, 129, 101
Cableview	Panasonic
52, 04, 124, 126	Philips 23, 24, 20, 13, 07, 50, 128, 129
Citizen 44, 52, 30, 63, 42, 04, 124, 126	Pioneer
Curtis	Pulsar
Century 44, 51, 75, 59, 126	Quest 06, 05, 12
Cabletenna 29, 09, 01, 63, 120, 44, 126	Radio Shack 44, 51, 75, 59, 126
Cable Cinema 29, 09, 01, 63, 120, 44, 126	RCA17, 16, 08, 87, 109
Diamond 29, 09, 01, 63, 120, 44, 126	Realistic 44, 51, 75, 59, 126
Eagle	Recoton 44, 51, 75, 59, 126
Eastern 28, 29, 130	Regal
Explorer	Regency 28, 29, 130
Gemini	Rembrandt
General Electric	Samsung 42, 06, 32, 05, 40
General Instruments 01, 84, 83, 34, 03, 02, 04, 55,	Scientific Atlanta
65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sheritech
Gerrard 44, 51, 75, 59	Signal
GC Electronics 44, 42, 63, 29, 30, 52, 04, 124, 126	SL Marx
Hamlin	Sprucer 17, 16, 08, 87, 109
Hitachi	Standard Components
Jerrold	Stargate 04, 42, 32, 40, 63, 44, 30, 52, 06, 124, 126
65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sylvania
Jasco	Teknika
Macom	Telecaption
Magnavox	Teleview
Matsushita 17, 16, 08, 87, 109	Texscan
Movietime	Tocom
Maestro	Toshiba
NEC	Unika 44, 42, 63, 29, 01, 126, 120
NSC	Universal
Novavision	Viewstar 62, 40, 22, 13, 58, 20, 26, 107
Next Level 01, 84, 83, 34, 03, 02, 04, 55,	Videoway
65, 66, 67, 68, 120, 106, 121, 122	Vidtek 64
Oak	Zenith 07, 23, 50, 129

DSS Brand Code Numbers

Toshiba	90	Optimus	
Hitachi/ Hughes		Panasonic	
Primestar		ProScan	
Drake		RCA	
Magnavox		Sony	
Uniden			

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.
- · Not all functions listed may be controlled by this remote control.

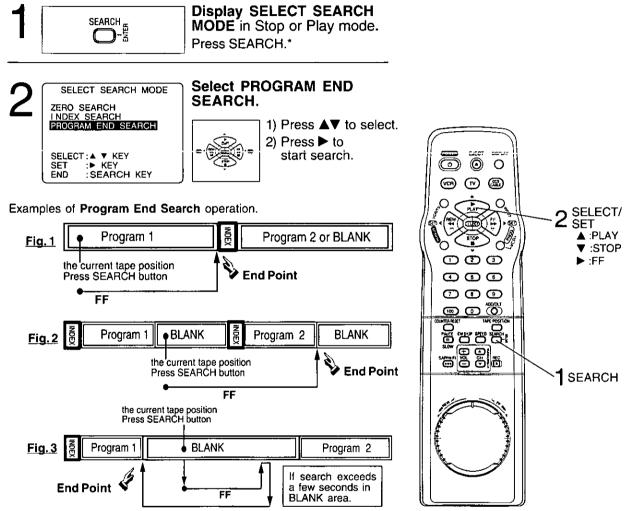
Tape Operation

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.

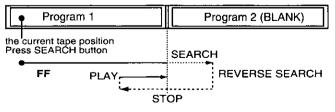
Program End Search

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.

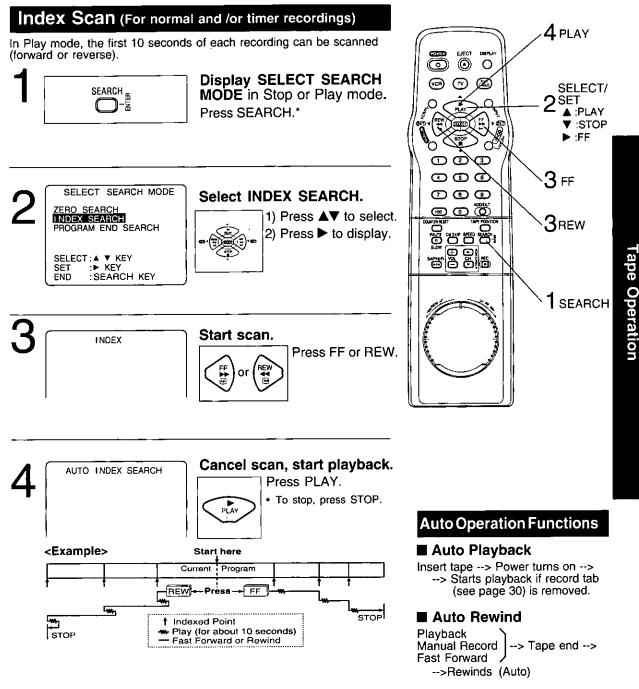
The search continues slightly beyond the end point, then search and reverse search and plays the last few seconds of the program and finally stops.



Notes

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

*Important: If the remote control POWER, ACTION, PROG/VCR+, 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.



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

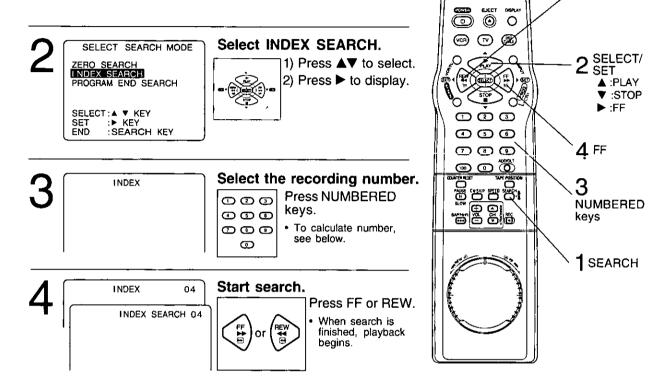
Tape Operation (continued)

Direct Access (For normal and /or timer recordings)

Go directly to desired recording.



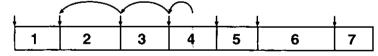
Display SELECT SEARCH MODE in Stop or Play mode. Press SEARCH.*



To Calculate Index Number

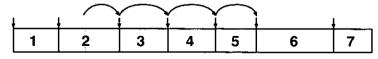
Example 1:

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.



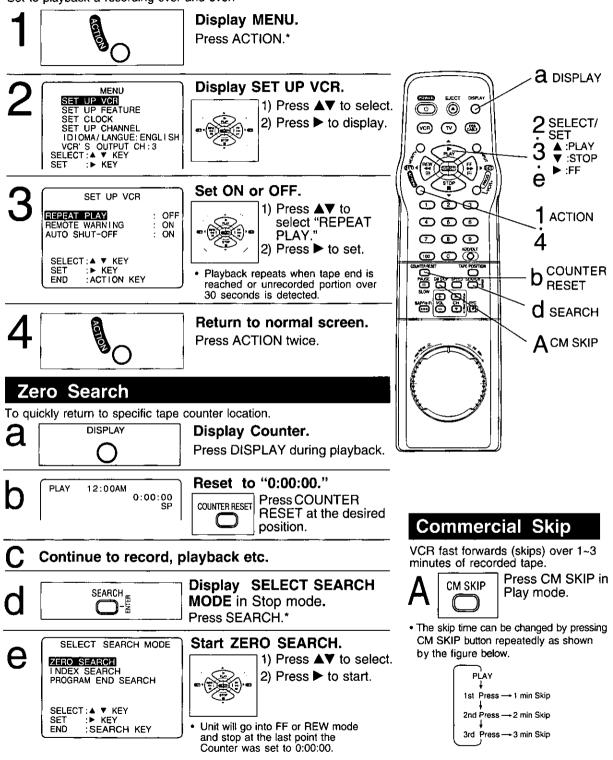
 Make each entry within 10 seconds, or the Index Search mode will be canceled.

⊿ REW

 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/VCR+, 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.

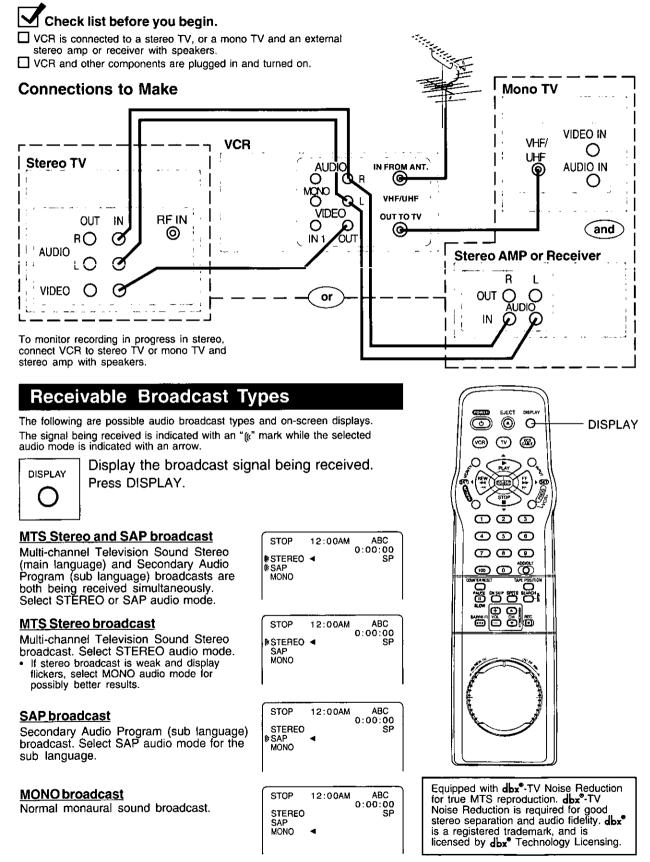
Repeat Play

Set to playback a recording over and over.



Tape Operation

MTS Broadcast/VHS Hi-Fi Stereo System



When set to proper audio mode VCR can:

- 1) record/playback MTS stereo broadcasts (main language) in Hi-Fi stereo.
- 2) record/playback mono (main language) or SAP (sub language) broadcasts.
- 3) playback non Hi-Fi tapes in monaural.
- · The selected broadcast sound is always recorded on the left and right Hi-Fi track as well as the normal monaural track. This means tapes can be played back on Hi-Fi and non-Hi-Fi VCRs.

COLLEG EJECT DISP1

0

۲ \bigcirc (VCR) ▣ **(33)**

 $\bigcirc \bigcirc \bigcirc \bigcirc$

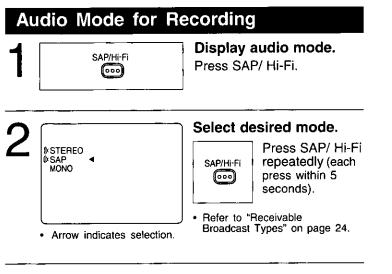
• • • 00

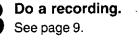
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1

3

5





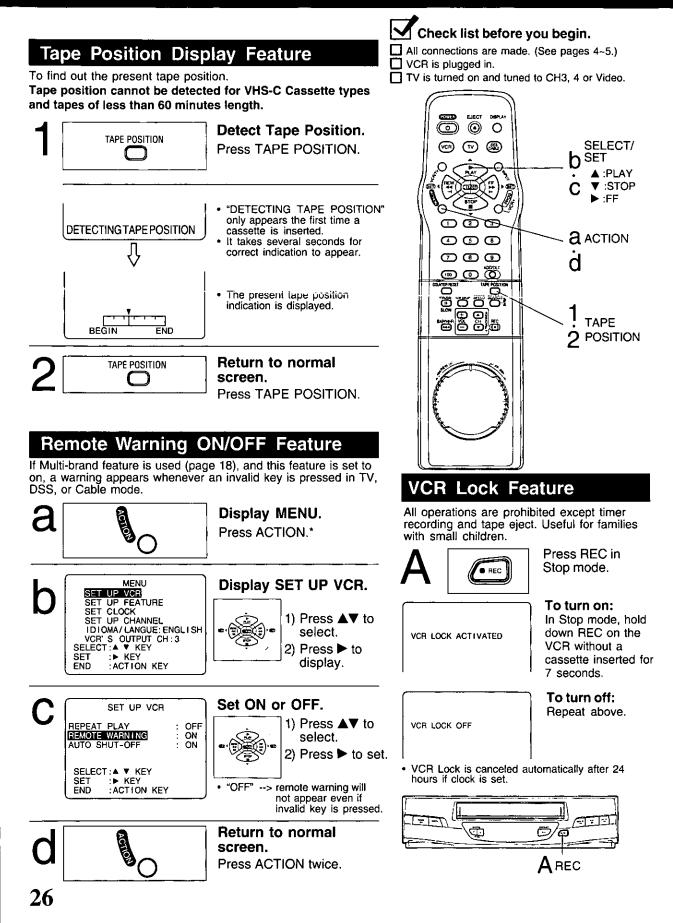
A a	Idio Mode for Pl Start playback. See page 8.	ayback			
b	SAP/Hi-Fi	Display Press SA	audio mode. P/ Hi-Fi.	•	Votes
С	HIFI (L/R) 4 HIFI (L) HIFI (R) NORMAL • Arrow indicates selection.	SAP/Hi-Fi Coo • Select "HI "HIFI(R)" t recordings	esired mode. Press SAP/ Hi-Fi repeatedly (each press within 5 seconds). FI(L/R)" or "HIFI(L)" or o listen to stereo in stereo sound. DRMAL" for monaural	•	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 page 24.) If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio. Hi-Fi and normal audio playback volume level may differ.

SAP/ 1 Hi-Fi

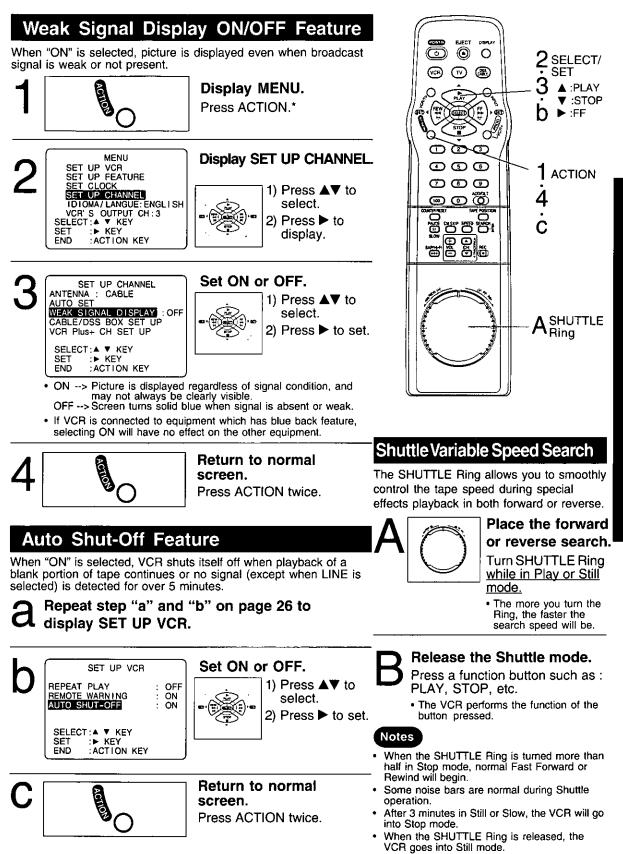
2 b

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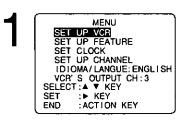
Special VCR Features



*Important: If the remote control POWER, ACTION, PROG/VCR+, 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.



Reset Language, Channels, Clock, VCR's





Display MENU. Press ACTION.*

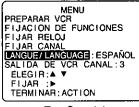
2 Language 1) Press ▲▼ to select

language item.

MENU
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
	MAGNETO SUPPLEM
REGLAGE	
REGLAGE	
	/ IDIOMA: FRANÇAIS
CA SORTI	
SEL. :	
REGLER:	
EIN :	ACTION
	Tan Eranala

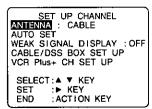
For French

Channels

1) Press ▲▼ to select SET UP CHANNEL.

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

2) Press ►.



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

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 ▲.
- After Channel Auto Set is finished, Clock Auto Set will be performed.

Clock

 Press ▲▼ to select SET CLOCK.

MENU SET UP VCA SET UP FEATURE SET CLOOK SET UP CHANNEL IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 SELECT:▲▼ KEY SET :▶ KEY END :ACTION KEY

2) Press ►.

SET CLOCK
AUTO CLOCK SET MANUAL TIME ZONE ADJUST : 0
SELECT:▲ ▼ KEY SET :▶ KEY END :ACTION KEY

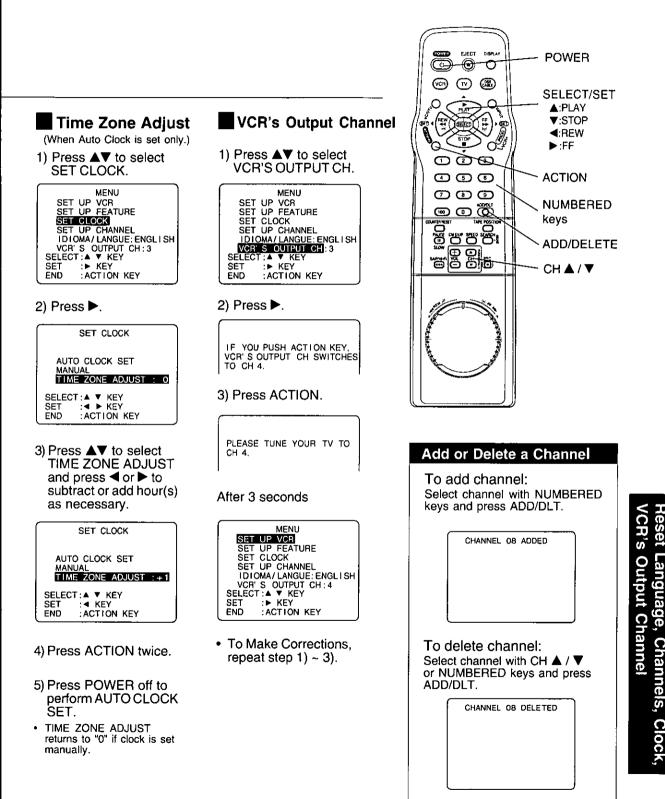
- ("TIME ZONE ADJUST" appears only when auto clock is set.)
- 3) Press ▲▼ to select MANUAL and press ►.
- For Auto Clock Set, select "AUTO CLOCK SET," then press CH ▲.

	LOCK1/ 1/
1/ 4/2000	TUE 12:00PM
	/ NO: TRIC
SELECT HOUR	
SELECT:▲ ▼ SET :◀ ► END :ACTI	
END ACT	ON KEY

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

Output Channel

*Important: If the remote control POWER, ACTION, PROG/VCR+, 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.



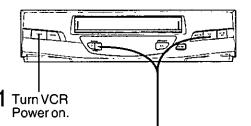
Channels,

Cloc

VCR & Cassette Information

Reset All VCR Memory Functions

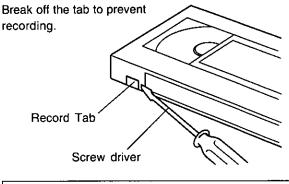
Use when moving VCR to new location, or if a mistake was made in the One Time VCR Setup section. • Make sure a tape is not inserted in the VCR.



 Press and hold both PLAY and CHANNEL ▲ on the VCR for more than 5 seconds.
 The power will shut off.

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

Prevent Accidental Tape Erasure





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

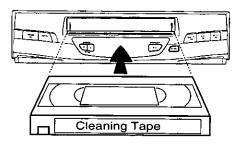
Playing older or damaged tapes may eventually cause video heads to become clogged.

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.

Specifications

Power Source:	120 V AC, 60 Hz
Power Consumption:	Power On
•	Approx. 23 watts
	Power Off
	Approx. 3.3 watts
Video Signal:	EIA Standard NTSC color
Video Recording System:	
	scanning system
Audio Track:	1 track (Normal)
	2 channel (Hi-Fi Audio Sound)
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 5 A (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.

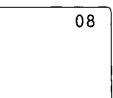




V-Lock Control (to reduce picture jitter) In Still mode, CH (TRACKING) ▲ / ▼ buttons operate as a V-Lock control.

On-Screen Displays (OSD)

Function & Channel Display



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

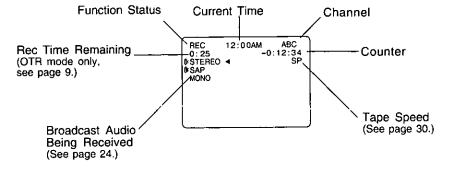
Blank Tape/ No Video Signal Indication

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 27) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

To display or remove the overlay at right.

DISPLAY 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	31
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	26
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	30	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	18 19 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	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	18 19 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 hook up selection. (P.4~5) Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.28]) Make sure cassette record tab is intact. (P.30)
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.31) Try Head Cleaning. (P.31)
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.26) Make sure remote is in proper mode.(P.18) 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.38) Avoid any object blocking signal path. Check remote batteries. (P.4) Make sure VCR LOCK is set to off. (P.26) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG/VCR+ buttons cannot be used	 Press VCR button for VCR mode. (P.18) 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.30)
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	 Because VCR playback signal is not as stable as off-the-air TV signal, top of TV screen may be bent or unstable during



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):

<u>PRODUCT</u> CAMCORDER	PARTS ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	LABOR 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 10/20/97

Thank you for your purchase. For service of this Panasonic product, please contact your local Sears Service Center. To locate the closest Sears Service Center, call 1-800-488-1222.

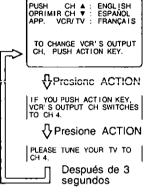
Spanish Quick Use Guide/Guía para rápida consulta

Para ajustar el idioma, canal y reloj

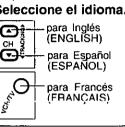
Encienda el televisor y la videograbadora. Presione POWER.

 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).

> Visualización de SELECCIÓN DE IDIOMA. Esta visualización aparece sólo cuando realice la configuración por primera vez. Seleccione el idioma. SELECT LANGUAGE para Inglés



2



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.

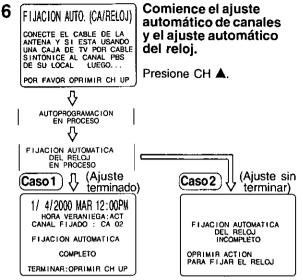
- Sintonice siempre el TV a este canal para monitorizar la video grabadora.
- · Si utilizó la conexión del conector audio/video, sintonice el TV a su entrada de video.
- Si se ajusta el idioma equivocado, realice los pasos de "Reajuste de todas las funciones de memoria de la video grabadora" en la página 30.



memorizado. Si no, vaya al paso 6.

1	ELEGIR LA CONEXION CABLE/DSS-VCR-TV	Seleccione la caja de TV por cable o su receptor el canal de salida.
	SALIDA DEL CABLE/DSS CATOL ELEGIR:▲ ▼ FIJAR : ◀ ► TERMINAR:ACTION	 Presione ▲▼ para seleccionar. Presione ▶ para fijar.

- Si es necesario, consulte su manual de la caja de TV por cable.
- Si esta usando los terminales de audio/ video para su conexión para la caja de TV por cable, ajuste "SALIDA DE VIDEÓ".
- 5 Encienda la caja de TV por cable y fije la caja de TV por cable al canal PBS de su zona.



Presione CH 🛦 para salir.

(Caso2) El ajuste del reloj es incompleto.

Ajuste el reloj manualmente.

- 1) Presione ACTION.
- Presione AV para seleccionar el mes.
- 3) 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 corrijalo.
- 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.

2	MENU PREPARAR VCR FIJACION DE FUNCIONES FIJAR CANAL LANGUE/LANGUAGE: ESPAÑOL SALIDA DE VCR CANAL: 3 ELEGIR: A V FIJAR: D TERMINAR: ACTION	Presione ▲▼ para seleccionar "FIJAR RELOJ" y luego presione ►.
3	FIJAR RELOJ FIJACION AUTOMATICA MANUAN AJUSTE ZONA HORA : O ELEGIR: A V FIJAR : P TERMINAR: ACTION	Presione ▲▼ para seleccionar "MANUAL" y luego presione ►.
4	FIJAR RELQUI 1/ 1/ 4/2000 MAR 12:00PM VERANCI ACT/IN ELEGIR + FOR FIJAR : 4 F TERMINAR: ACTION	Presione ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.

5 Presione ACTION dos veces para <u>que el reloj</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 30), se inicia la reproducción automática.
- Para encontrar una escena en particular Búsqueda hacia adelante---> Presione FF. ---> Presione REW. Búsqueda hacia atrás
- 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 rebobinar la cinta ---> Presione REW.
- Para hacer avanzar la cinta rápidamente ---> Precione FF
- Para expulsar la cinta

1

en el viideogrababora.

Operaciones básicas para la grabación

Inserte un casete.

 La videogrababora se enciende automáticamente.

2 Seleccione el canal.

Lengüeta

Presione CH A / V 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.

Programación fácil para la grabación con temporizador

1 Exhiba FIJAR PROGRAMACION.

Presione PROG/VCR+.

2 Exhiba FIJAR PROGRAMACION "TEMPORIZADOR". VCR Plus-1) Presione ▲▼ para TEMPORI ZADOR seleccionar. ELEGI R : A Presione
 para FIJAR : TERMINAR: PROG exhibir. Si ya existe un programa en la memoria, presione y i para seleccionar un número de programa sin usar. 3 Ajuste la fecha de RECNA/ INICIO PARADA CA 7 VIE --:-grabación. <u> Y/j\</u> 1) Presione ▲▼ para ELEGIR FECHA DE INICIO seleccionar. ELEGIR: 2) Presione 🕨 o ◀ para 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 ---> Presione STOP/EJECT +8-9-----6 Ejemplo ▲/▼ Orden para elegir DIARIO Fecha de hoy SEMANAL SEMANAL SEMANAL (LUN) (SAB) (DOM) Repita el paso 3 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP). P FE INIC PARADA CA VLC 1 8 10:00P12:00P 02 SP Termine el programa. 4 1) Presione PROG/VCR+ (o ACTION). 4 -- --;-- --;----CANCELAR: ADD/DLT ELEGIR 1-8:▲ ▼ ENTRAR·► TERMINAR: PROG/ACTION Para introducir más programas, presione AV y > para seleccionar y ajustar el número de programa en blanco. Luego repita los pasos 3 y 4. Presione PROG/VCR+ (o ACTION) para salir. 5 Grabación con Т 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.

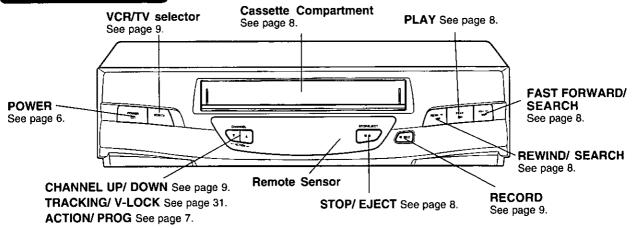
Location of Controls

Remote control Buttons

EJECT Jee page 3 See page 6. Outward and a see page 18. See page 6. Outward and a see page 18. VCR mode See page 18. See page 18. INPUT VCR/ TV See page 18. See page 18. INPUT VCR/ TV See page 11. See page 18. See page 11. See page 18. See page 17. See page 7. See page 7. REWIND/ SEARCH See page 7. See page 7. See page 7. REWIND/ SEARCH See page 7. See page 8. SELECT DOWN See page 7. See page 8. See page 8. SELECT DOWN See page 8. See page 8. See page 8. See page 8. See page 8. See page 8. See page 9. See page 8. See page 9. <td< th=""><th></th><th></th><th>DISPLAY See page 32.</th></td<>			DISPLAY See page 32.
POWER See page 18. See page 6. See page 18. VCR/TV See page 18. See page 9. FAST FORWARD/ SEARCH SELECT UP See page 7. See page 7. See page 8. See page 8. SELECT DOWN See page 7. See page 7. REWIND/ SEARCH See page 7. See page 8. SELECT DOWN See page 8. SELECT DOWN See page 8. SELECT DOWN See page 7. See page 7. Action See page 7. See page 8. SELECT DOWN See page 7. See page 7. Action See page 7. See page 8. SELECT DOWN See page 8. SEE Page 23. COUNTER RESET See page 23. See page 23. See page 24. See page 23. See page 3.	EJECT	<u></u>	
See page 6. VCR mode See page 18. See page 18. See page 18. See page 18. VCR/TV See page 8. See page 8. See page 8. See page 8. SET See page 7. See page 8. SELECT UP See page 8. SET See page 8. See page 7. See page 8. SELECT UP See page 8. SET See page 8. See page 7. See page 7. See page 8. See page 8. SELECT UP See page 8. See page 8. SET See page 8. See page 8. SELECT OWN See page 8. See page 7. See page 7. See page 7. ACTION See page 8. See page 7. See page 8. See page 7. See page 7. NUMBERED KEYS See page 28. See page 29. COUNTER RESET See page 8. See page 29. See page 23. See page 8. See page 9. COUNTER RESET See page 9. See page 9. See page 23. See page 9. See page 9. SAP/Hi-Fi See page 9.		$\langle \rangle$	
VCR mode See page 18. INPUT See page 18. INPUT See page 18. INPUT See page 18. See page 18. INPUT See page 11. See page 9. FAST FORWARD/ SEARCH See page 7. See page 7. See page 7. See page 7. See page 7. See page 7. See page 7. See page 8. SELECT DOWN See page 7. See page 7. See page 7. See page 7. See page 8. SELECT DOWN See page 7. See page 8. SEE See page 7. See page 29. See page 8. See page 7. See page 29. COUNTER RESET See page 20. See page 20. See page 8. See page 8. See page 20. See page 8. See page 9. See page 9. See page 8. See page 9. See page		EOWER EJECT DISPLAY	DSS/ CABLE mode
See page 18. INPUT See page 18. Import See page 9. FAST FORWARD/SEARCH See page 8. See page 7. See page 7. See page 7. See page 8. SELECT DOWN SET See page 7. See page 7. See page 7. See page 8. SELECT DOWN See page 7. See page 7. See page 7. See page 7. See page 8. SELECT DOWN See page 28. See page 29. COUNTER RESET See page 20. See page 8. SEE SEARCH/ ENTER COUNTER RESET See page 20. See page 8. SEE SEARCH/ ENTER See page 8. <th>VCR mode</th> <td></td> <td></td>	VCR mode		
VCH/TV See page 9. PLAY See page 8. SEE page 8. SET SELECT UP See page 7. See page 7. See page 7. REWIND/ SEARCH See page 7. See page 7. See page 7. See page 7. See page 7. See page 7. See page 7. See page 8. SELECT DOWN SET See page 7. ACTION See page 7. See page 8. SEE See page 7. See page 7. ACTION See page 7. See page 7. See page 7. ACTION See page 7. See page 7. See page 7. See page 8. SEE See page 8. See page 7. See page 8. See page 8. COUNTER RESET See page 8. See page 8. See page 8. CM SKIP See page 9. See page 23. See page 9. See page 18. See page 9. VOLUME UP/ DOWN See page 9. See page 18. See page 9. SHUTTLE Ring	See page 18.	$\mathbf{K} = -\mathbf{I}$	
PLAY See page 8. See page 8. SET See page 7. Store page 7. REWIND/ SEARCH See page 7. See page 8. SET See page 7. See page 7. See page 7. See page 7. ACTION See page 7. See page 7. See page 7. ACTION See page 7. See page 7. See page 7. ACTION See page 7. See page 8. SELECT DOWN See page 7. See page 7. ADD/ DELETE See page 8. See page 8. See page 8. COUNTER RESET See page 29. See page 8. See page 7. See page 8. See page 29. COUNTER RESET See page 20. See page 8. See page 20. See page 23. See page 20. See page 23. See page 9. See page 23. See page 9. See page 23. See page 9. See page 18. See page 9. SHUTTLE Ring See page 9.			
See page 8. Stell See page 7. See page 7. Stell Stell REWIND/ SEARCH See page 7. See page 8. SELECT DOWN SET See page 7. ACTION See page 7. ACTION See page 7. ACTION See page 7. ACTION See page 7. See page 7. See page 7. ACTION See page 7. ACTION See page 7. See page 8. See page 7. COUNTER RESET See page 29. See page 8. See page 23. PAUSE/ SLOW See page 23. See page 8. See page 9. CM SKIP See page 23. See page 23. See page 9. VOLUME UP/ DOWN See page 9. See page 23. See page 9. SAP/ Hi-Fi See page 9. SAP/ Hi-Fi See page 9. VOLUME UP/ DOWN See page 9. VOLUME UP/ DOWN See page 9. VOLUME UP/ DOWN See page 9. SHUTTLE Ring TACKING/ V-LOCK	•	to to a	
REWIND/ SEARCH See page 8. See page 8. SELECT DOWN See page 7. See page 7. ACTION See page 7. ACTION See page 7. See page 28. See page 7. NUMBERED KEYS See page 12, 13, 17. See page 9. See page 29. COUNTER RESET See page 29. See page 23. See page 28. PAUSE/SLOW See page 29. See page 23. See page 20. SAP/ Hi-Fi See page 23. VOLUME UP/ DOWN See page 31. VOLUME UP/ DOWN See page 31.		The play	
REWIND/ SEARCH See page 8. See page 8. SELECT DOWN See page 7. See page 7. ACTION See page 7. ACTION See page 7. See page 28. See page 7. NUMBERED KEYS See page 12, 13, 17. See page 9. See page 29. COUNTER RESET See page 29. See page 23. See page 28. PAUSE/SLOW See page 29. See page 23. See page 20. SAP/ Hi-Fi See page 23. VOLUME UP/ DOWN See page 31. VOLUME UP/ DOWN See page 31.	SELECT UP		See page 7.
REWIND/ SEARCH See page 8. See page 8. SELECT DOWN See page 7. See page 7. ACTION See page 7. See page 28. See page 7. NUMBERED KEYS See page 29. See page 9. See page 29. COUNTER RESET See page 29. See page 23. See page 28. PAUSE/ SLOW See page 23. See page 23. See page 23. SAP/ Hi-Fi See page 23. SAP/ Hi-Fi See page 25. VOLUME UP/ DOWN See page 31.	See page 7.	STOP	STOP
SET See page 7. See page 7. Image: See page 7. ACTION See page 7. See page 7. Image: See page 7. ACTION See page 7. See page 28. Image: See page 12, 13, 17. NUMBERED KEYS See page 29. See page 9. Image: See page 29. COUNTER RESET Image: See page 29. See page 23. Image: See page 20. See page 8. SEARCH/ ENTER CM SKIP See page 9. See page 23. See page 23. See page 23. See page 23. See page 23. See page 23. See page 23. See page 9. See page 23. See page 9. See page 23. See page 9. SAP/ Hi-Fi See page 9. VOLUME UP/ DOWN See page 9. See page 18. See page 9. VOLUME UP/ DOWN See page 9. SHUTTLE Ring TRACKING/ V-LOCK See page 31. See page 31.	REWIND/ SEARCH		10
See page 7. Image: See page 28. NUMBERED KEYS Image: See page 29. See page 28. Image: See page 29. NUMBERED KEYS Image: See page 29. See page 9. Image: See page 29. COUNTER RESET Image: See page 29. See page 23. Image: See page 29. PAUSE/ SLOW See page 20. See page 8. Image: See page 29. CM SKIP See page 23. See page 23. See page 23. See page 23. See page 23. See page 23. See page 9. See page 23. See page 9. CM SKIP See page 9. See page 25. See page 9. VOLUME UP/ DOWN See page 18. SHUTTLE Ring TRACKING/ V-LOCK			
ACTION 7 3 9 PROGRAM/ VCR+ See page 28. ADD/ DELETE See page 29. ADD/ DELETE NUMBERED KEYS See page 9. Counterrest Internostion See page 29. See page 9. Counterrest Internostion See page 29. COUNTER RESET See page 29. See page 29. See page 29. See page 23. PAUSE/ SLOW See page 26. See page 26. PAUSE/ SLOW See page 8. See page 31. See page 9. CM SKIP See page 23. See page 9. See page 9. See page 23. See page 23. See page 9. See page 9. CM SKIP See page 23. See page 9. See page 9. See page 25. See page 9. CHANNEL UP/ DOWN See page 9. See page 18. SHUTTLE Ring See page 31. See page 31.		1 4 6 6 1	See page 7.
See page 28. Image 28. ADD/ DELETE NUMBERED KEYS Image 29. See page 29. See page 9. Image 29. TAPE POSITION COUNTER RESET Image 23. See page 26. PAUSE/ SLOW See page 23. See page 26. PAUSE/ SLOW See page 23. See page 20. See page 8. See page 23. See page 20. See page 23. See page 23. See page 9. See page 23. See page 23. See page 9. See page 23. See page 9. See page 9. See page 25. VOLUME UP/ DOWN See page 9. See page 18. TRACKING/ V-LOCK See page 31.			
NUMBERED KEYS See page 29. See page 9. COMPLETENT INFORMATION COUNTER RESET CM SKIP SPEED SLARCH. See page 23. Sum Difference PAUSE/ SLOW See page 26. See page 8. SPEED CM SKIP See page 23. See page 23. See page 26. See page 8. SPEED See page 23. See page 9. SAP/ Hi-Fi See page 9. See page 18. SHUTTLE Ring		ADDIOLT	
See page 9. TAPE POSITION See page 23. PAUSE/SLOW See page 26. See page 8. See page 20. CM SKIP See page 23. See page 23. See page 20. See page 23. See page 9. See page 25. See page 9. VOLUME UP/ DOWN See page 9. See page 18. TRACKING/ V-LOCK SHUTTLE Ring See page 31.			
See page 23. PAUSE/ SLOW See page 8. CM SKIP See Page 23. SAP/ Hi-Fi See page 25. VOLUME UP/ DOWN See page 18. SHUTTLE Ring Subscription See page 31.			
See page 23. PAUSE/ SLOW See page 8. CM SKIP See Page 23. SAP/ Hi-Fi See page 25. VOLUME UP/ DOWN See page 18. SHUTTLE Ring See Page 31.	COUNTER RESET		
See page 8. CM SKIP See Page 23. SAP/ Hi-Fi See page 25. VOLUME UP/ DOWN See page 18. SHUTTLE Ring	See page 23.		
See page 8. CM SKIP See Page 23. SAP/ Hi-Fi See page 25. VOLUME UP/ DOWN See page 18. SHUTTLE Ring		j ő ő i í h	
CM SKIP See page 23. SAP/ Hi-Fi RECORD See page 25. See page 9. VOLUME UP/ DOWN See page 9. See page 18. TRACKING/ V-LOCK SHUTTLE Ring See page 31.			SPEED
SAP/ Hi-Fi RECORD See page 25. See page 9. VOLUME UP/ DOWN CHANNEL UP/ DOWN See page 18. See page 9. SHUTTLE Ring TRACKING/ V-LOCK See page 31. See page 31.			N
See page 25. VOLUME UP/ DOWN See page 18. SHUTTLE Ring	/	ster and	BECOBD
VOLUME UP/ DOWN CHANNEL UP/ DOWN See page 18. SHUTTLE Ring			
SHUTTLE Ring See page 31.			CHANNEL UP/ DOWN
SHUTTLE Ring See page 31.			
	SHUTTLE Ring		
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EJECT button: When EJECT is pressed, the tape is ejected from the Cassette Compartment. If EJECT is pressed during recording, the VCR will not respond to the command.

Front View of the VCR



Multi Function Display

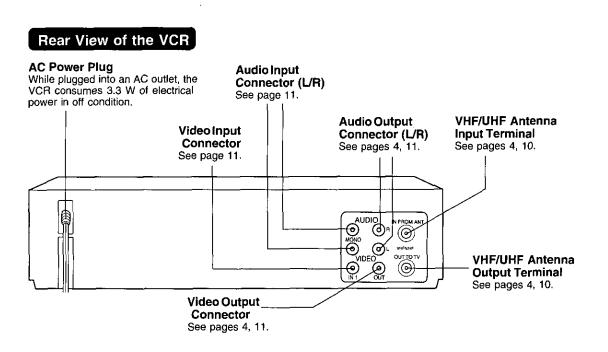
VCR Indicator Lights when the VCR/TV selector is set to VCR.	 i Indicator s when Hi-Fi audio is monitored or play back.
Power Indicator	Timer Indicator Lights when the VCR is set for a Timer Recording, or when a length is set for a permat recording (OTR)

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.

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

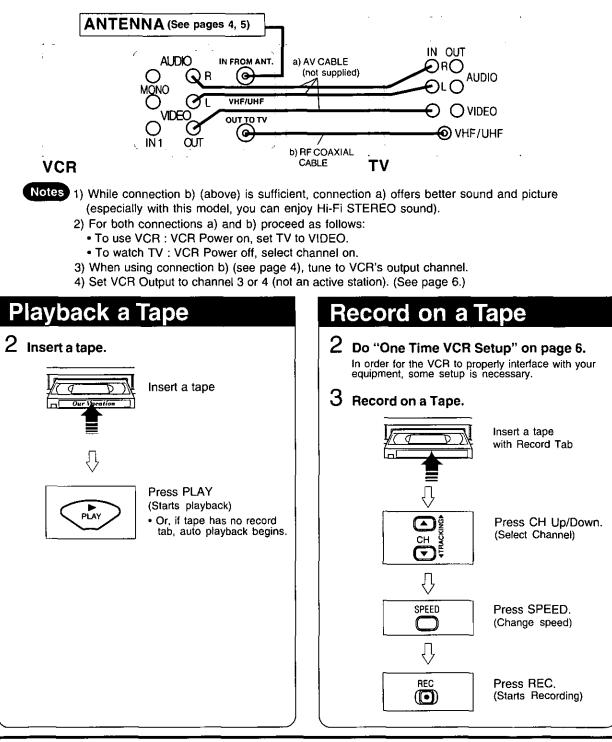
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Quick Use Guide

Make all connections (page 4).

Connect VCR and TV with AV Cable (not supplied) or RF Coaxial Cable (supplied) as shown below. To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO." Use the L Audio OUT jack for proper sound reproduction when connecting to a monaural TV.



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