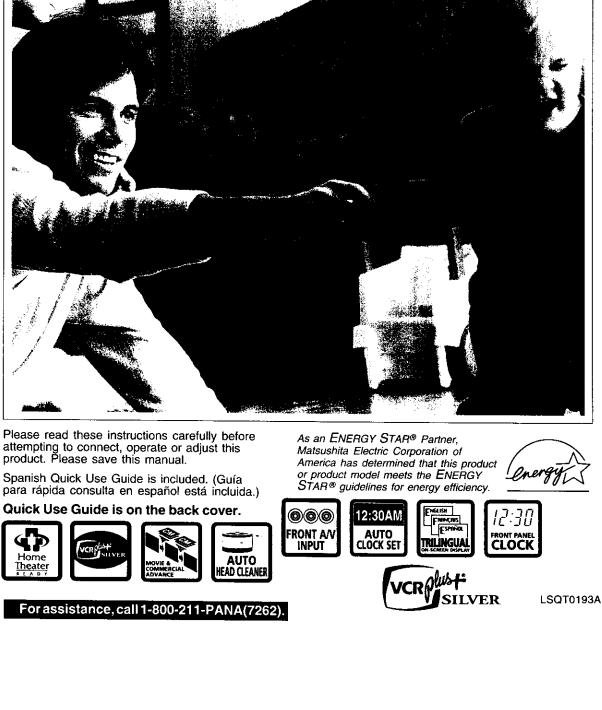
Advanced Operation

ForYour Information





Omnivision WHS

Home Theater

Panasonic

Video Cassette Recorder **Operating Instructions** Model No. PV-V4620

Important Safeguards and Precautions

1

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

- 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

1

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: Never cover ventilation slots or the unit while in use, or operate the unit when placed
- on a bed, sofa, rug, or other soft surface. Avoid built-in installation, such as a book case b. or rack, unless proper ventilation is provided.

5 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.

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

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.

1



2

This symbol wams 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.

For assistance, call 1-800-211-PANA(7262).

OUTDOOR ANTENNA INSTALLATION

LEAD IN

MOUNDING COMPUC

SAFE ANTENNA AND CABLE CONNECTION If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian GROUN ELECTRIC SERVICE

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.

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. 1 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

3 DURING AN ELECTRICAL STORM

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

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 6

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

SERVICE

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

- 2 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.

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,

| Use Now! | Important Safeguards and Precautions Accessories Loading the Batteries Basic Connections (Antenna, VCR, TV) One Time VCR Setup (Language, VCR's Output Channel, Chan Playback a Tape (Still picture, Frame by Frame picture, Slow Record On a Tape • One Touch Recording | 4 4 | Basic Operation |
|-----------------------|---|---|----------------------------|
| Enjoy more! | Advanced Connections (Cable/DSS) Copying Your Tapes (Dubbing) Timer Recording • Timer Recording Using VCR Buttons 12 Timer Recording Using VCR Plus+® System • Choose your connection type 14 • Cable Box Setup • Auto VCR Plus+ System • Auto VCR Plus+ System • Auto VCR Plus+ System • Channel Setup • Commercial Advance • Search System • Program End Search • Program Index Search, Index Scan • Stereo/SAP/Mono Broadcast • Channel Caption • Stereo/SAP/Mono Broadcast • Channel Caption • Channel Caption • Channel Caption • Stereo/SAP/Mono Broadcast • Channel Caption • Stereo/SAP/Mono Broadcast • VCR Lock • Weak Signal Display • Auto Shut-Off | 11 12, 13 lear 13 14 ~ 19 system 18 19 20, 21 22 ~ 29 ions 27 28 29 29 29 30, 31 31 32 ~ 37 36 DN/OFF 37 | Advanced Operation |
| Other Information! | Reset Language, Channels, Clock, VCR's Output Cha VCR & Cassette Information • Reset All VCR Memory Functions 40 • DST (Daylight Saving Time) 40 • Prevent Accidental Tape Erasure 40 • Record/Playback Time | | ForYour Information |

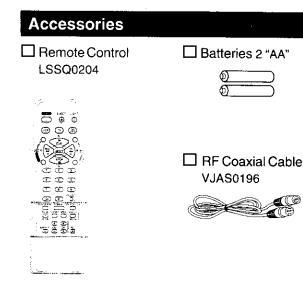
3

Before Using

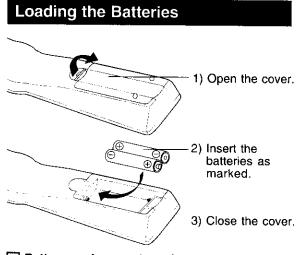
Congratulations

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.
- Model No. ______
- Serial No. ______



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



Battery replacement caution

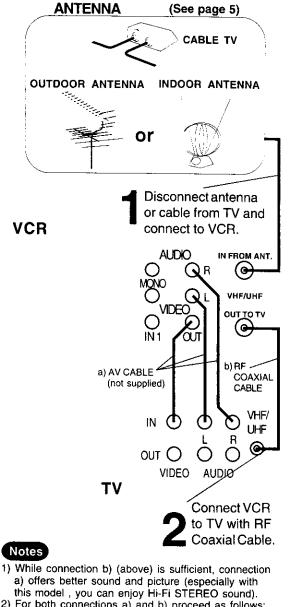
4

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

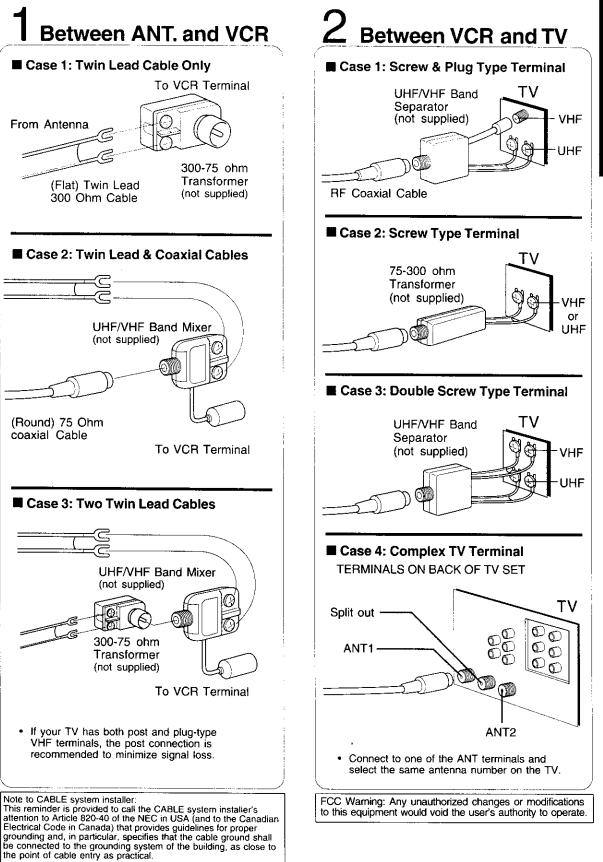


- 2) For both connections a) and b) proceed as follows:
 To use VCR : VCR Power on, set TV to VIDEO.
 To watch TV : VCR Power off, select channel on.
- 3) Set VCR Output to channel 3 or 4 (not an active station). (See page 6.)
- Use the L Audio OUT jack for proper sound reproduction when connecting to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

WARNING

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

For assistance, call 1-800-211-PANA(7262).



Basic Connection

OneTimeVCR Setup

When VCR is turned on the first time, setup mode is entered automatically.



Turn the TV and VCR on. Press POWER*.

Process of Setup

1 POWER

2 VCR/TV

4

SELECT/ 3 SET

▲ :PLAY

▼:STOP

►:FF

2 ACTION

2 ch ▲/▼

⊕

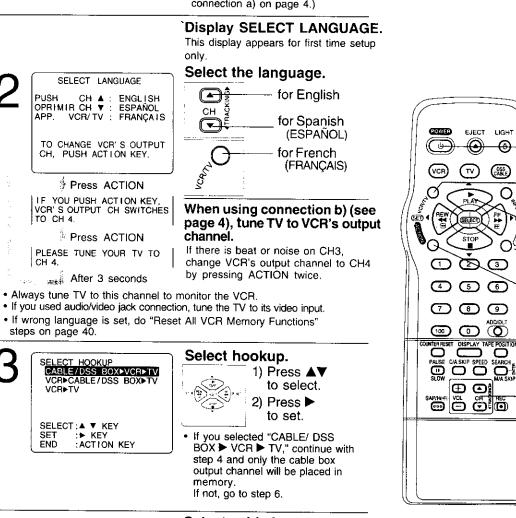
O

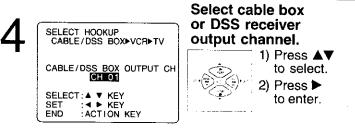
^re

1 SE

O

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





If necessary, refer to cable box manual.

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

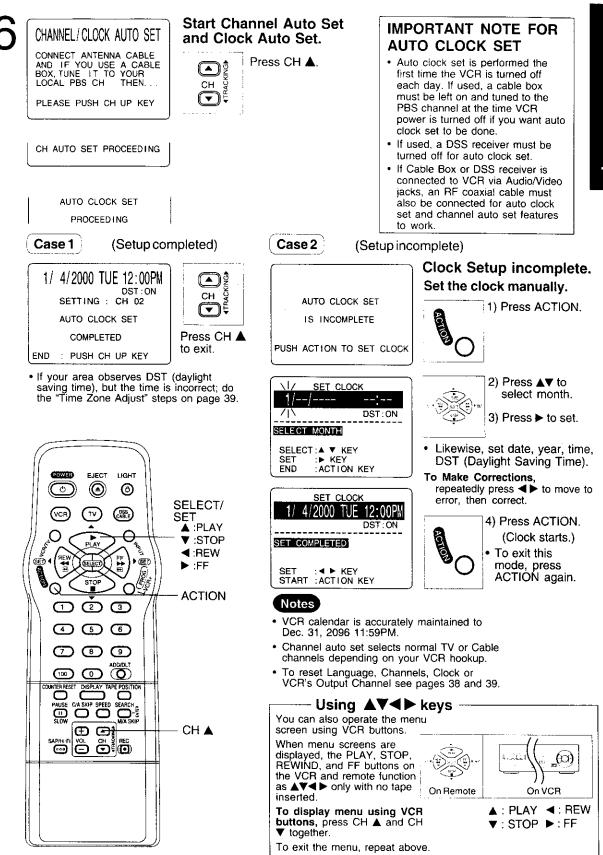


6

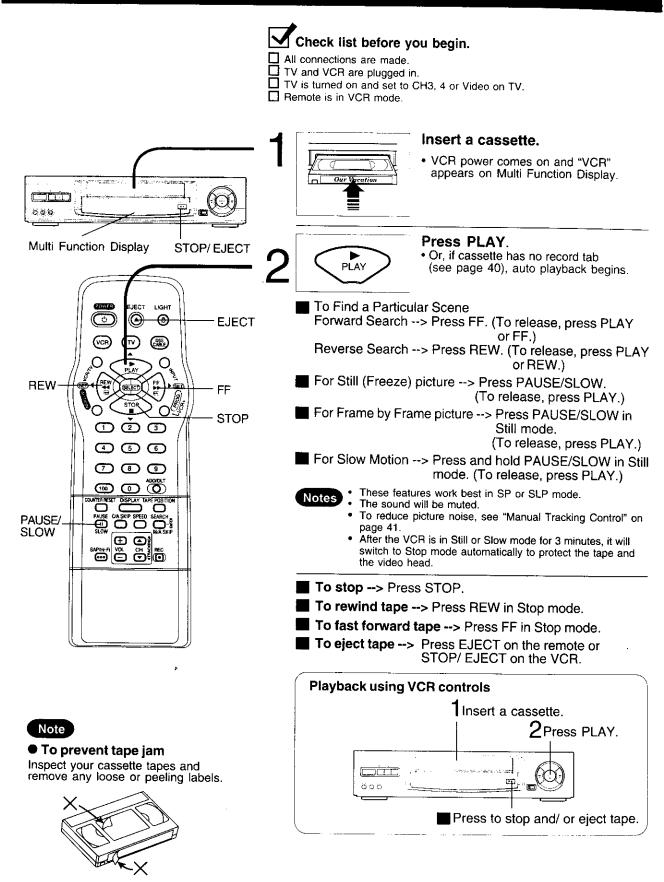
Turn on cable box and set it to PBS channel in your time zone.

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

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

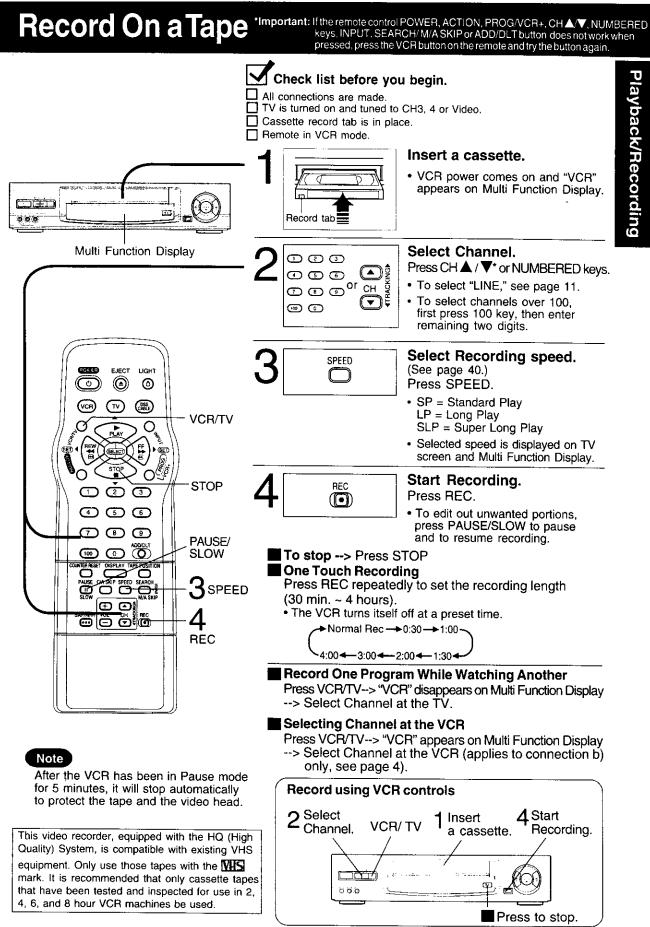


Playback a Tape



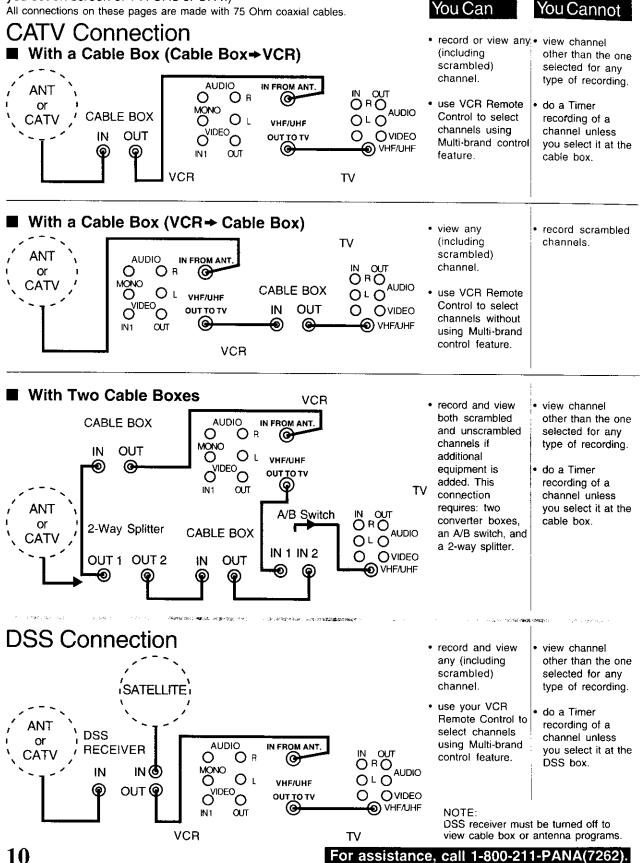
8

For assistance, call 1-800-211-PANA(7262).



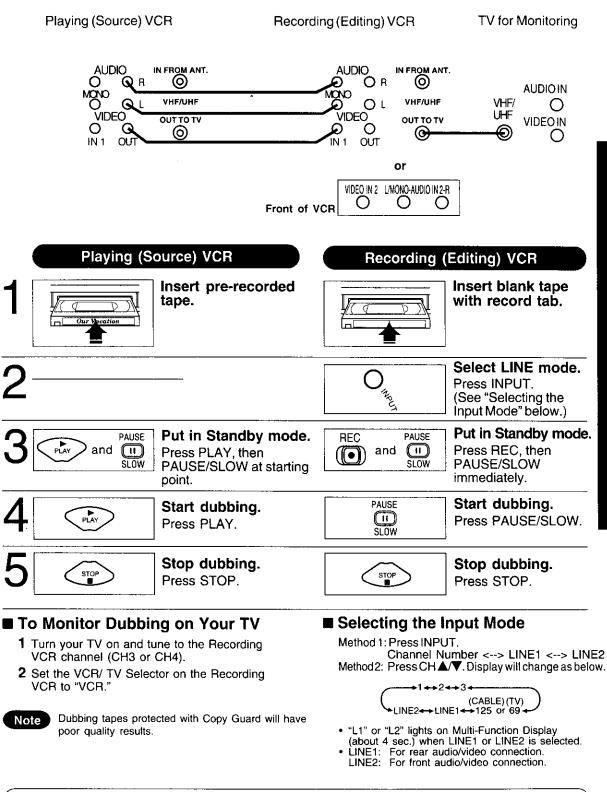
Advanced Connections

Be sure to tune TV to VCR output channel. (The same one you set on screen of TV: CH3 or CH4.)



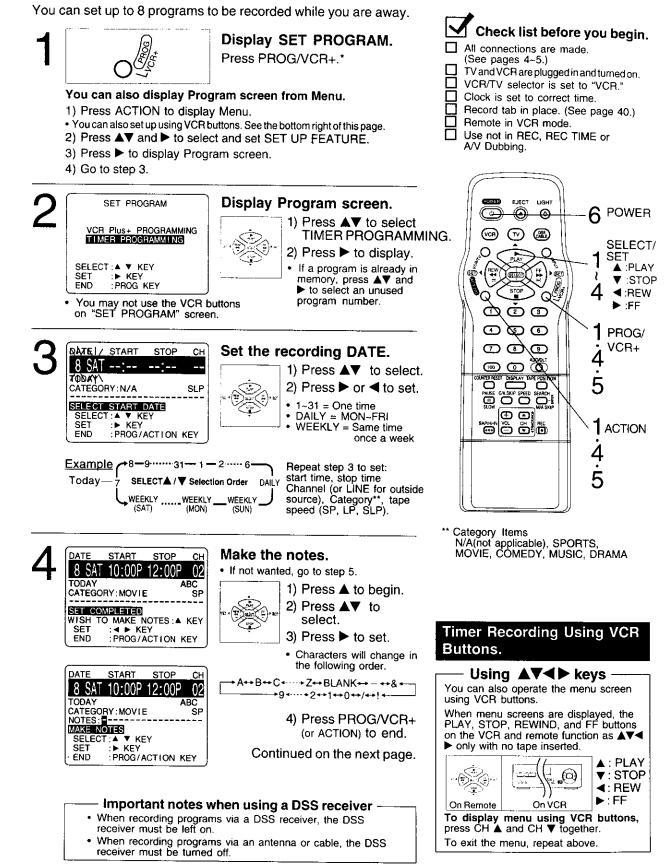
Copying Your Tapes (Dubbing)

Connections you'll need to make.



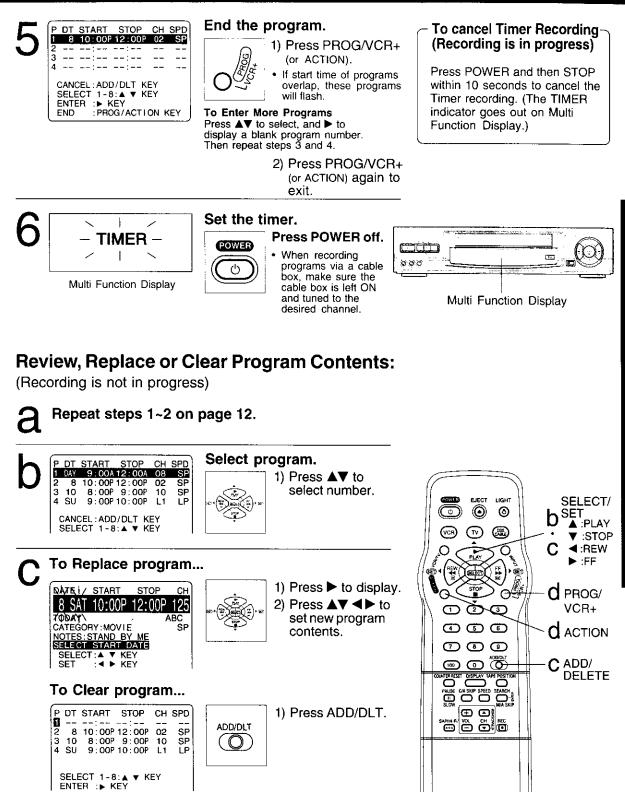
Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

Timer Recording



For assistance, call 1-800-211-PANA(7262).

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





End the program.

- 1) Press PROG/VCR+ (or ACTION).
- If there are programs, press POWER off.

Timer Recording

Timer Recording Using VCR Plus+[®] System

VCR Plus+ System is ...

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

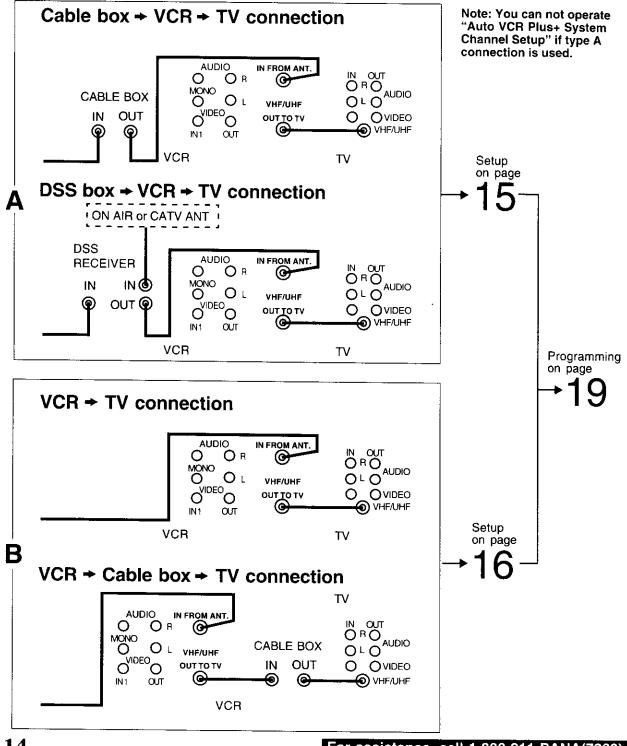
Process of Recording

Connection

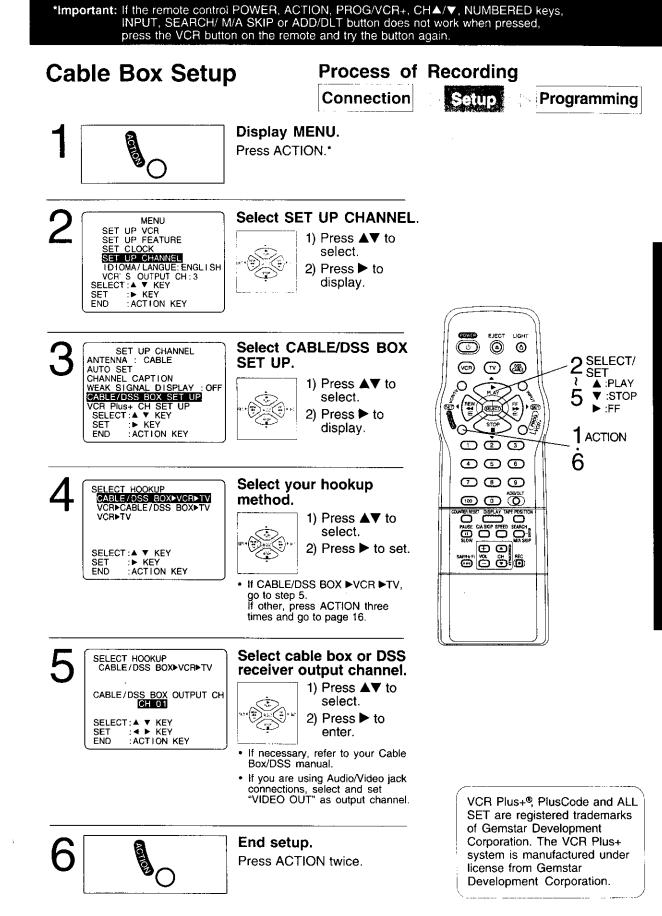
Setup

Programming

Find the type of connection you use from the following diagrams and proceed to the page number indicated to begin set up.



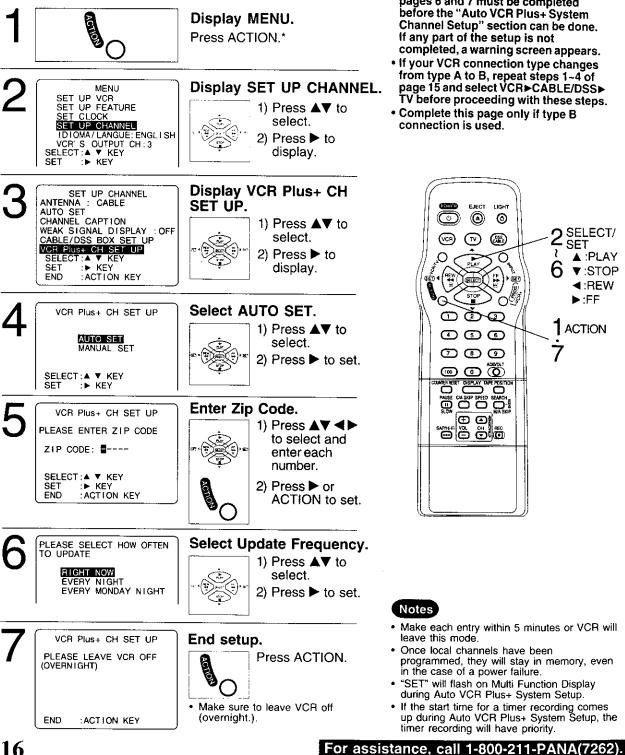
For assistance, call 1-800-211-PANA(7262).

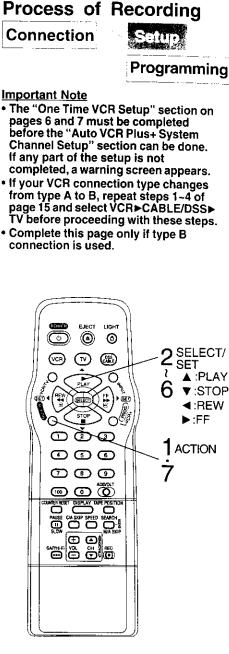


Timer Recording Using VCR Plus+ System (continued)

Auto VCR Plus+ System Channel Setup (Part 1)

In order for VCR to read VCR Plus+ code, some set up is required. Guide (VCR Plus+) channel number is assigned to each local broadcast and cable station. Because this number sometimes differs from channel TV receives station on, it is necessary to program the VCR with local channel information. To receive VCR Plus+ channels automatically, perform the steps below. Or, see "Manual VCR Plus+ System Channel Setup" section on page 18.



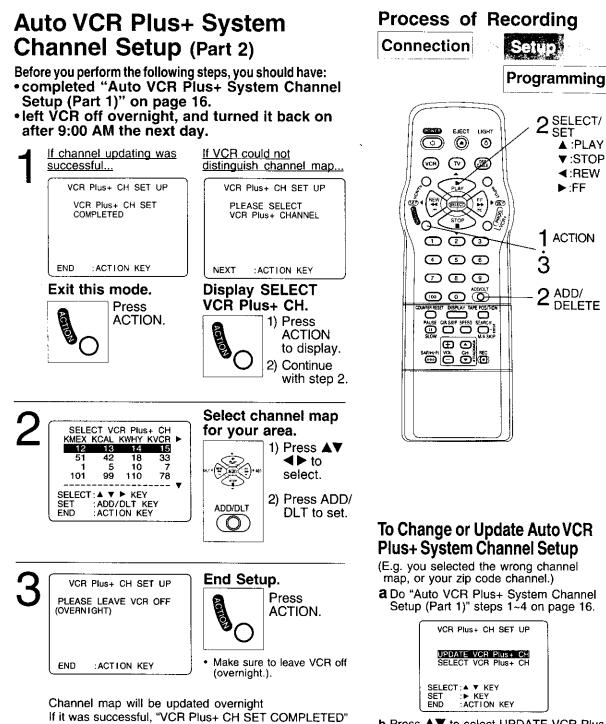


Notes

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

16

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



If it was successful, "VCR Plus+ CH SET COMPLETED" appears on screen. And then, press ACTION to exit. b Press ▲▼ to or SELECT

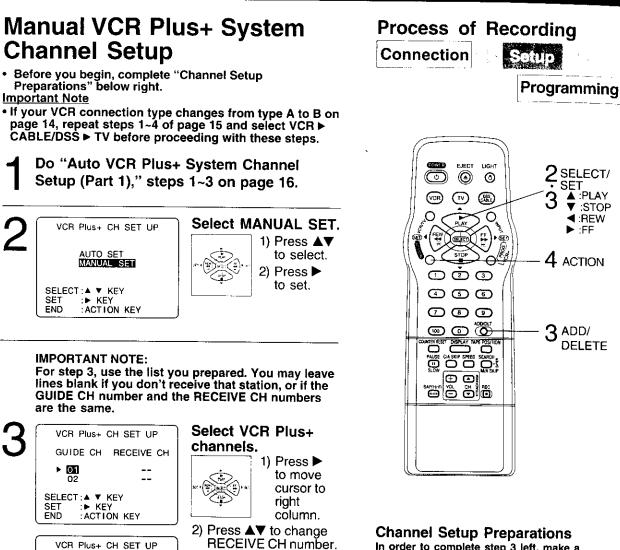
Repeat these steps as necessary.

If Auto Setup fails, do "Manual VCR Plus+ System Channel Setup" section on page 18.

- b Press ▲▼ to select UPDATE VCR Plus+ or SELECT VCR Plus+ CH, then press ►.
- c If you selected UPDATE VCR Plus+ CH, perform steps 5-7 in the "Auto VCR Plus+ System Channel Setup (Part 1)" section on page 16.

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

Timer Recording Using VCR Plus+ System (continued)



Press < to set.

column.

complete.

End setup.

Press ACTION three times.

Press ▲▼ to scroll

Repeat step 3 until list is

up/down GUIDE CH

GUIDE CH RECEIVE CH

** **

To make corrections, Press $\blacktriangle \lor$ and \triangleright to move to error, then $\blacktriangle \lor$ to change, or ADD/DLT* to erase number.

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.

▶ 01 02

SET

END

SELECT :▲ ▼ KEY

KEY

ACTION KEY

In order to complete step 3 left, make a local channel list (see example below).

- You will need the following:
- A line up of normal TV and/ or Cable stations and A list of Guide (VCR Plus+) channel numbers for
- the stations you receive found in TV Guide and selected newspapers.
- 1 Make a 3-column chart. In the left column, write the name of all the stations you receive.
- 2 In the middle column, write_each station's Guide (VCR Plus+) number from TV Guide.
- 3 In the right column, write the channel number your TV receives the station on.

EXAMPLE ONLY

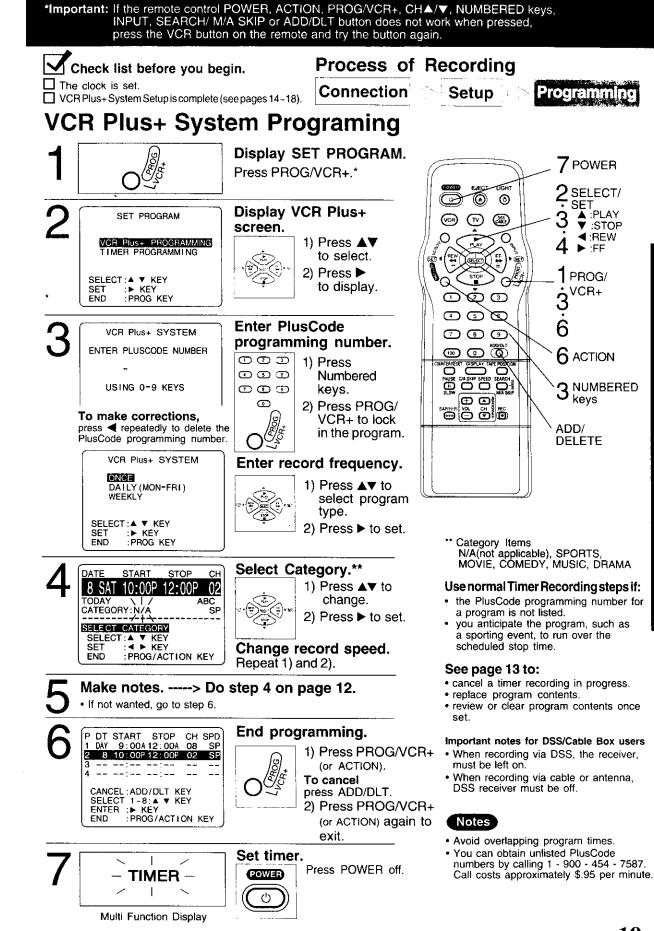
| Broadcast or Cable Station Name | Assigned Guide (VCR Plus+) channel no. | Channel no. your TV receives the station on |
|---------------------------------------|---|--|
| HBO | 33 | 15 |
| Nickelodeon | 38 | 20 |
| CBS | 04 | 04 |
| FOX | 11 | |
| | | |

For assistance, call 1-800-211-PANA(7262)

18

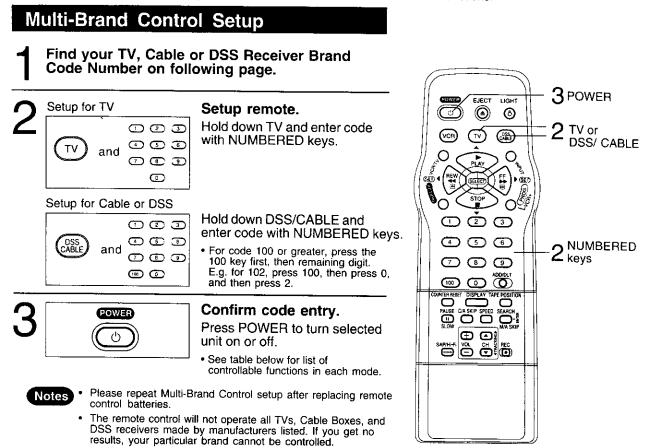
Notes

Δ



Multi-Brand Control Feature

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



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

| Available Mode Buttons | | TV | CABLE/ DSS |
|---------------------------|---|---|---|
| VCR | All Functions | VOL UP/DOWN | |
| τv | VCR/TV, PLAY, STOP EJECT, SAP/Hi-Fi, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET TAPE POSITION, C/A 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, C/A 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

| Quasar 01 | , 02 | Sylvania | Hitachi 12 |
|-----------|------|---|------------|
| GE | . 03 | Sony 08 Toshiba 09 Sanyo 10 | Samsung 14 |
| | | Fisher 10 | |

Cable Box Brand Code Numbers

| Cabletenna Cableview | |
|-------------------------|-------------------------------------|
| Curtis | |
| Diamond | 01, 44, 63, 91, 126 |
| | |
| | 13, 22, 58, 62, 20, 40, 26, 107 |
| Eastern | 63, 44, 42, 30, 52, 04, 124, 126 |
| | |
| | |
| General Electric | |
| General Instruments | s 01, 02, 03, 04, 34, 55, 83, 106, |
| | 65, 67, 68, 115, 117, 118, 124, 91 |
| | 15, 28, 41, 102, 103, 104, 108, 130 |
| | |
| | |
| | 65, 67, 68, 115, 117, 118, 124, 91 |
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| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Panasonic | |
| Philips | 07, 13, 20, 23, 24, 50, 128, 129 |
| Pioneer | |
| Pulsar | 63, 44, 42, 30, 52, 04, 124, 126 |

| A | |
|----------------------------|---------------------------------------|
| Quest | |
| Radio Shack | |
| RCA | , , , , , , , , , , , , , , , , , , , |
| Realistic | |
| Recoton | |
| Regal 14, 15, 28, 4 | 41, 102, 103, 104, 108, 130 |
| Regency | |
| Regency Rembrandt | 01, 32, 39, 42, 44, 63, 126 |
| Salora | |
| Samsung | |
| Scientific Atlanta | |
| Sheritech | |
| Signal | |
| SL Marx | 42, 06, 43, 44, 52, 63, 126 |
| Sprucer | |
| Standard Components | |
| Stargate 32, 40, 63, 44, 4 | |
| Sylvania | |
| Teknika | |
| Telecaption | |
| Teleview | , |
| Texscan | |
| Tocom | 33 34 01 42 66 01 |
| Toshiba | |
| Uniden Satelite | |
| Unika | |
| Universal | , , |
| | |
| Videoway | |
| Vid Tech | |
| Vidtek | |
| Viewstar 13, | |
| Zenith | |
| | |

DSS Brand Code Numbers

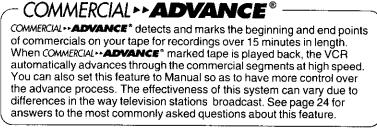
| Taskika | Deserved |
|--------------------|-----------|
| rosniba | Panasonic |
| Hitachi/ Hughes | RCA |
| | Sony |
| Magnavox/ Uniden 2 | |
| | |

Important Notes

• Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.

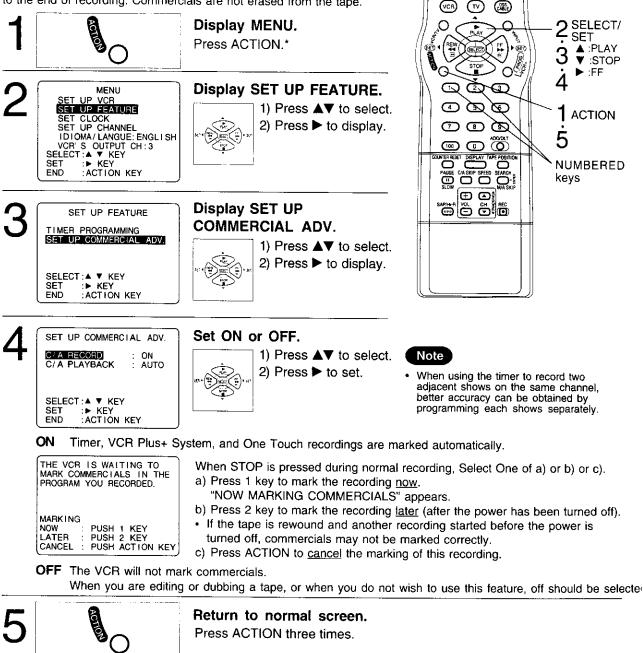
- · Some TV, Cable Box and DSS Box brands require you to turn on the power manually.
- · Not all functions listed may be controlled by this remote control.

Tape Operation



COMMERCIAL -- ADVANCE® Marking

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



Check list before you begin.

TV is turned on and set to CH3, 4 or Video

All connections are made.

One time Setup completed.

VCR is plugged in.

FOWER

ി

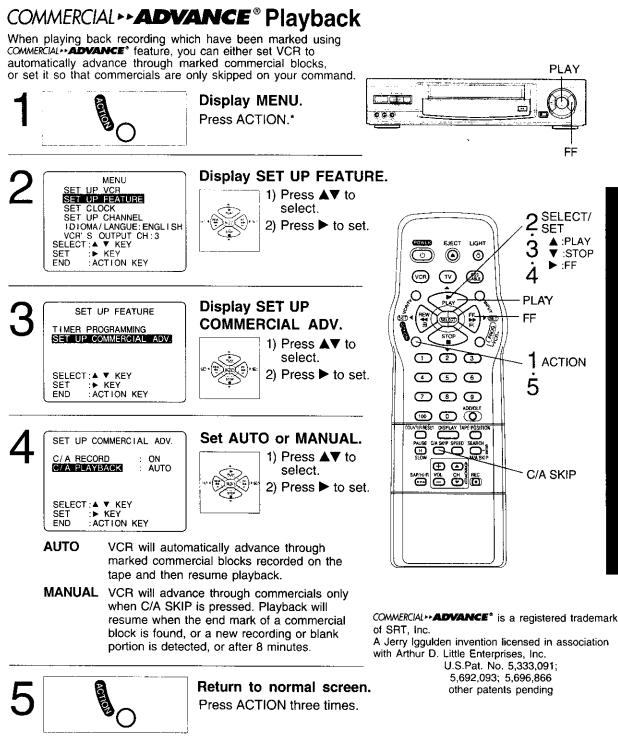
EJECT LIGHT

0 0

For assistance, call 1-800-211-PANA(7262).

on TV.

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



TapeOperation



- The selection mode in step 4 remains set unless there is a power outage in which case the original factory setting will be restored.
- If playback is started in the middle of a commercial, only a single commercial is shown, or an individual commercial is longer than 1 minute, a commercial may not be skipped. Press FF to quickly advance through the commercial.
- Part of a recorded program may be skipped over if the program portion between commercials is less than one minute or there are frequent dark and quiet scenes during the program. To view the portion of tape being incorrectly skipped, press PLAY while the VCR is skipping, reverse the tape to a point just prior to where the skipping began and press PLAY again. This time the group will not be automatically skipped. Automatic skipping will be re-enabled when the end of the marked group is detected.

23

Tape Operation (continued)

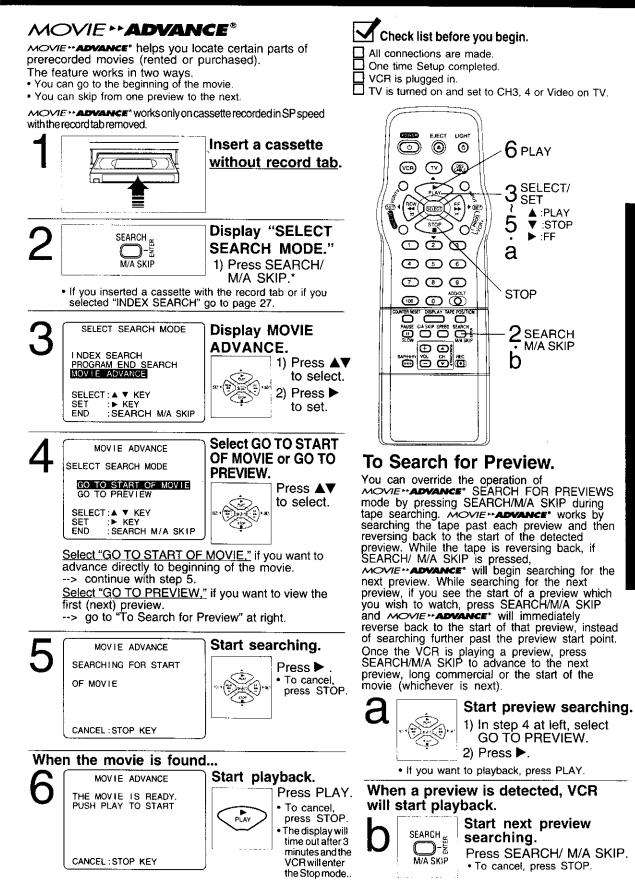
The most commonly asked questions about COMMERCIAL -- ADVANCE* are answered below.

| Question | Answer |
|--|--|
| How fast does the VCR advance through commercials? | The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP it takes about 25 to 35 seconds. |
| Are commercials advanced through only when I playback a recording? | Yes. The commercials are not marked until after the recording is finished. |
| Are commercials still recorded on the tape in case I choose to view them sometime? | Yes. By setting the C/A PLAYBACK to MANUAL, see page 23, you can view or advance through commercials as desired. |
| Does COMMERCIAL •• ADVANCE [®] work in all recording speeds? | Yes. COMMERCIAL ADVANCE' works in SP, LP, and SLP. |
| Does the VCR advance through commercials each time I playback tapes which were recorded using COMMERCIAL**ADVANCE*? | Yes. As long as C/A PLAYBACK is set to AUTO, see page 23, the VCR should advance through commercials each time the tape is played back. |
| After marking commercials, does the VCR stop at the end of the tape, or rewind to the beginning? | The tape stops at the end of the recording so that any additional timer recordings can be performed. |
| Can I play my COMMERCIAL •• ADVANCE [•] recordings in non-COMMERCIAL •• ADVANCE [•] VCRs? | Yes. COMMERCIAL •• ADVANCE [®] marked recordings will play in non-COMMERCIAL •• ADVANCE [®] VCRs, but commercials will not be advanced through. |
| Does the marking process interfere with other programmed recordings? | No. If the interval between 2 or more timer programs is not sufficient to mark the recording, marking will be done after all recordings are complete and the power goes off. |
| What happens if I cancel the marking in progress so I can use the VCR? | Marking will be resumed when the VCR's power is turned off as long as the tape has not been ejected. |
| What if part of my program is advanced through along with the commercials? | Please see the 3rd note on page 23. |

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

COMMERCIAL ... ADVANCE* is a registered trademark of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

U.S.Pat. No. 5,333,091; 5,962,093; 5,696,866 other patents pending *Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲ / ▼, NUMBERED keys, INPUT, SEARCH/ M/A SKIP or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



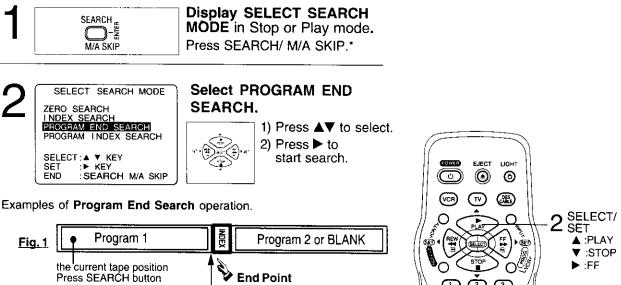
Tape Operation

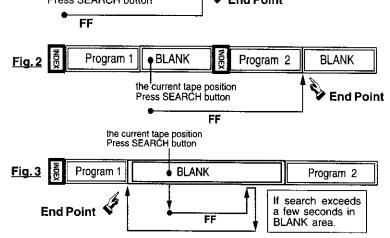
Search System

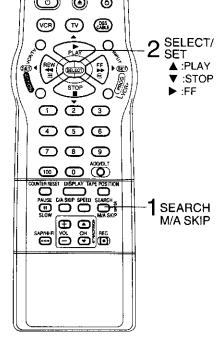
Each time a recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

Program End Search

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

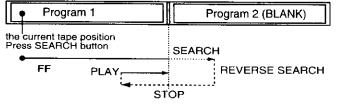






If Program End Point (🖘) is found.

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.



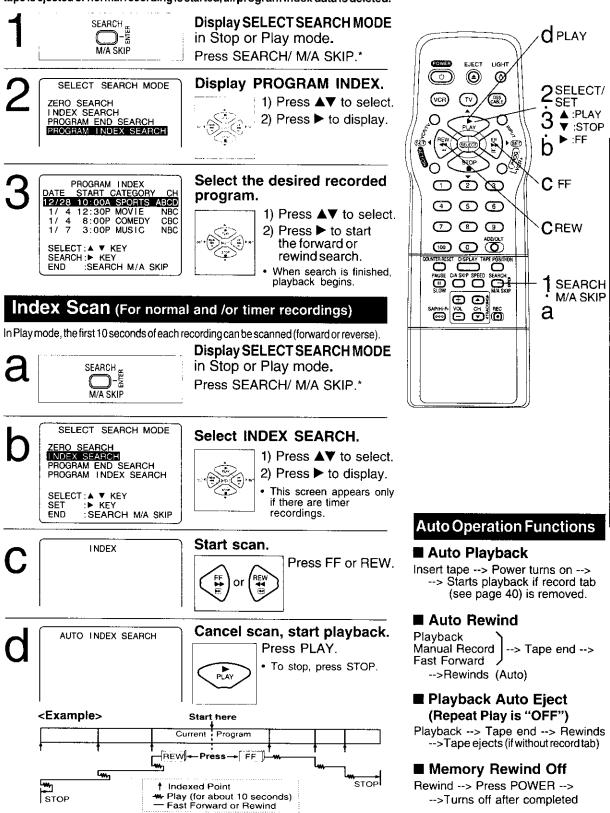


- If Program End Search is started very close to an index mark, one program may be skipped over.
- To cancel Program End Search, press PLAY or STOP.

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

Program Index Search (For timer recordings only)

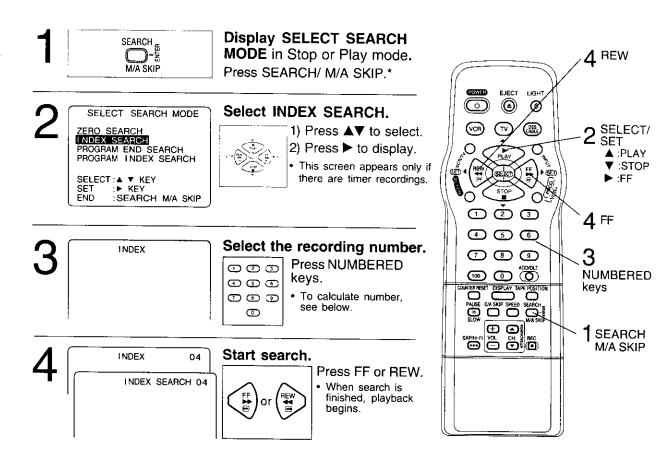
Choose a timer recorded program from a Program Index List. When the tape is ejected or normal recording is started, all program index data is deleted.



Tape Operation (continued)

Direct Access (For normal and /or timer recordings)

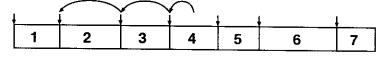
Go directly to desired recording.



To Calculate Index Number

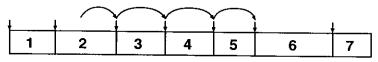
Example 1:

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.

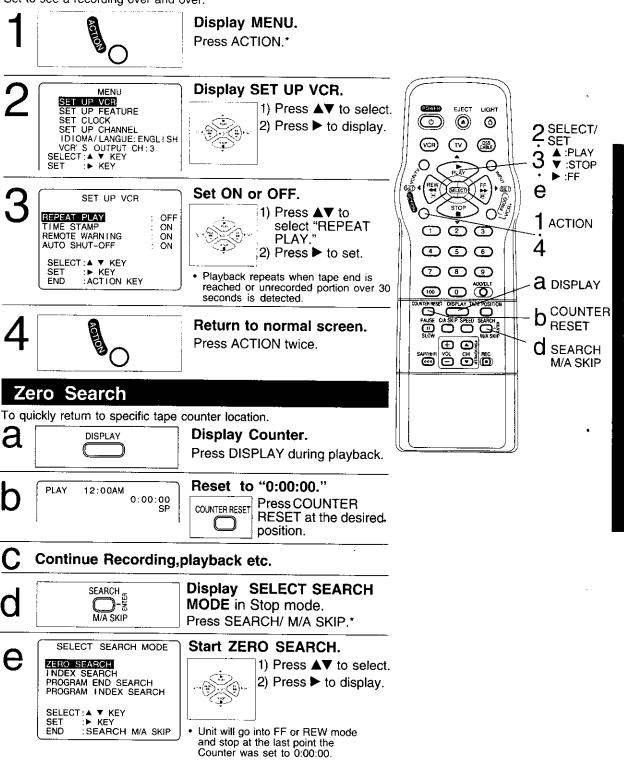
Notes

- 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.

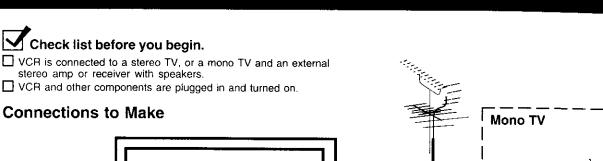
*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH/ M/A SKIP or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

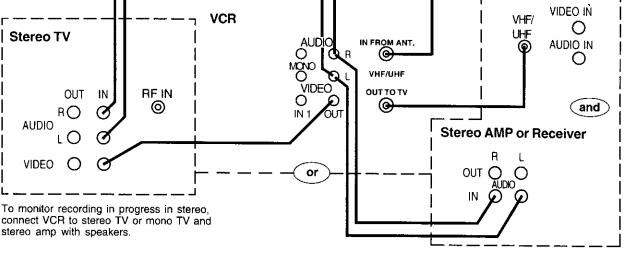


Set to see a recording over and over.



MTS Broadcast/VHS Hi-Fi Stereo System





Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "(c" mark while the selected audio mode is indicated with an arrow.

Display the broadcast signal being received.



Press DISPLAY.

MTS Stereo and SAP broadcast

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

MTS Stereo broadcast

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

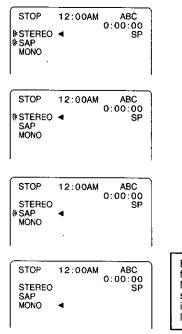
If stereo broadcast is weak and display flickers, select MONO audio mode for possibly betterresults.

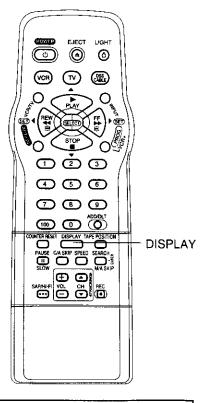
SAP broadcast

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

MONO broadcast

Normal monaural sound broadcast.



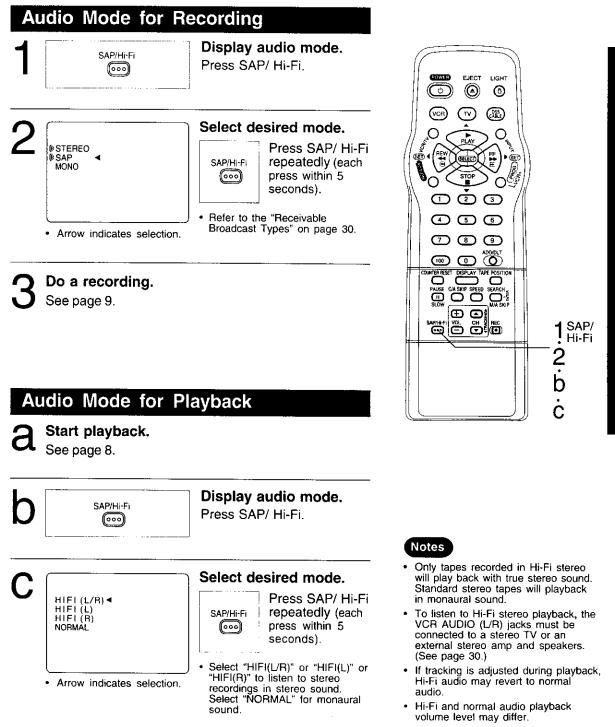


Equipped with dbx®-TV Noise Reduction for true MTS reproduction. dbx°-TV Noise Reduction is required for good stereo separation and audio fidelity. dbx® is a registered trademark, and is licensed by dbx[®] Technology Licensing.

For assistance, call 1-800-211-PANA(7262).

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 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.

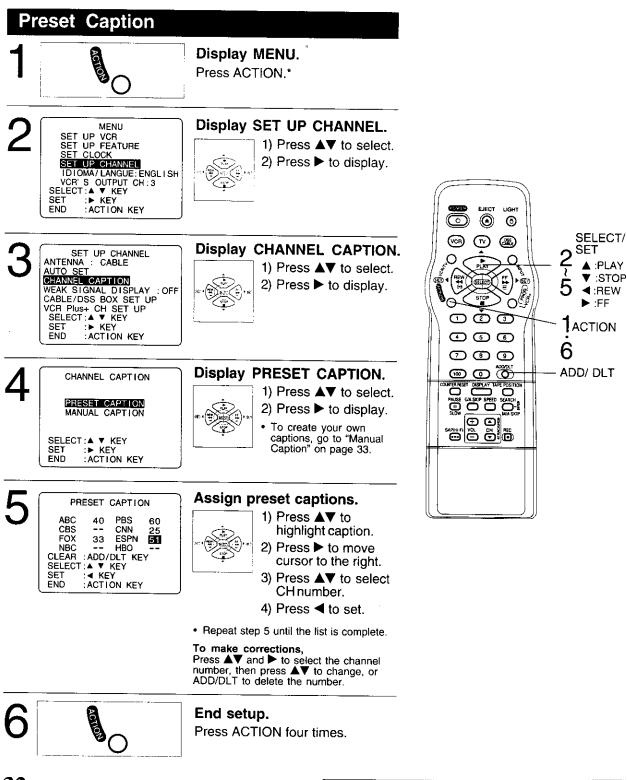


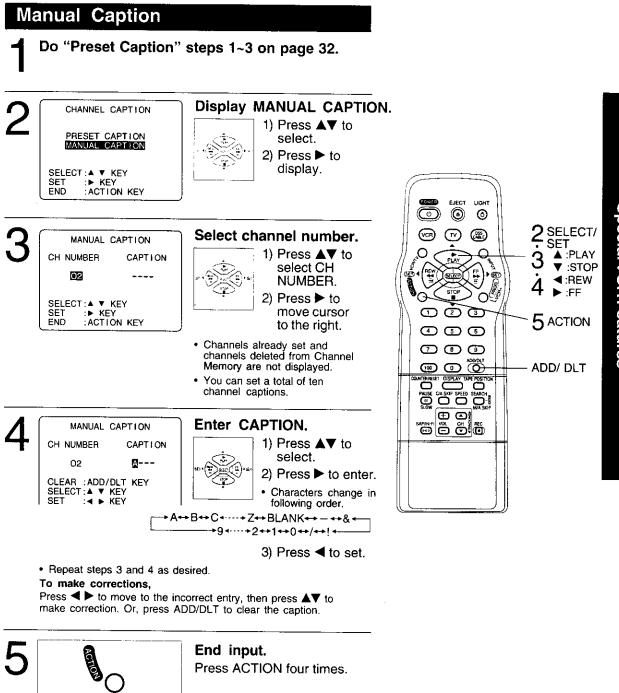
Special VCR Features

Channel Caption

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

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





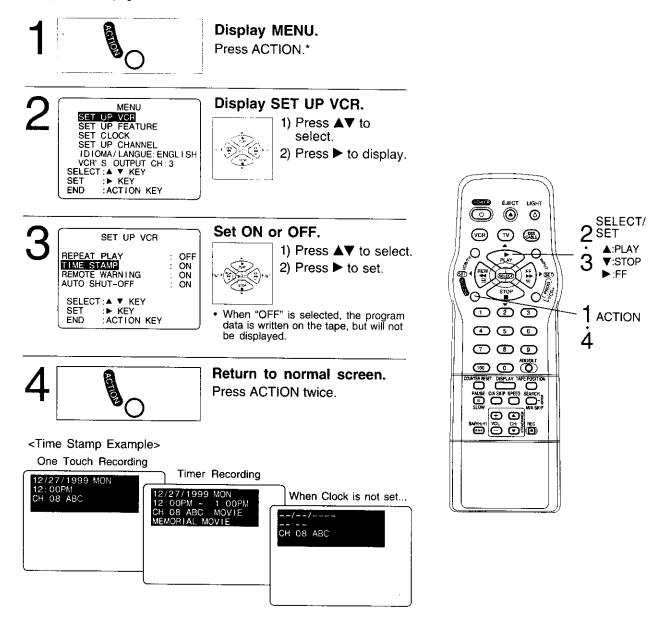
Special VCR Features (continued)

Time Stamp Feature

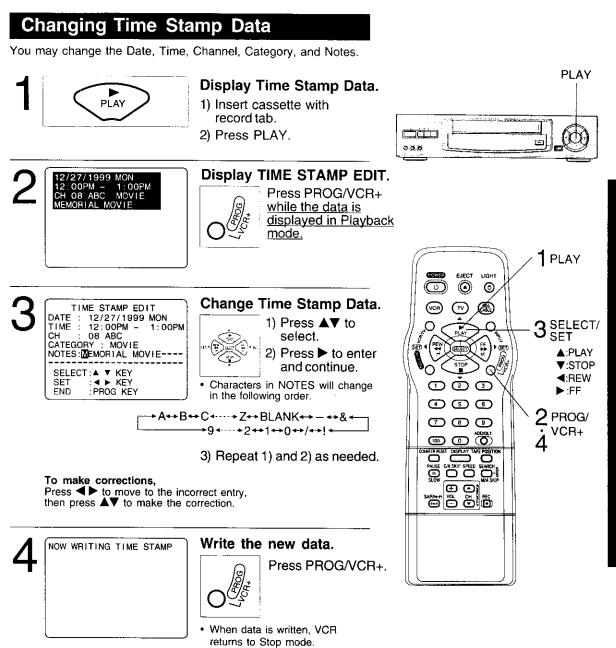
The VCR writes program data (see example below) about the first 10 seconds of every recording. The information is then displayed the first 10 seconds of playback. To change the data, see "Changing Time Stamp Data" on page 35.



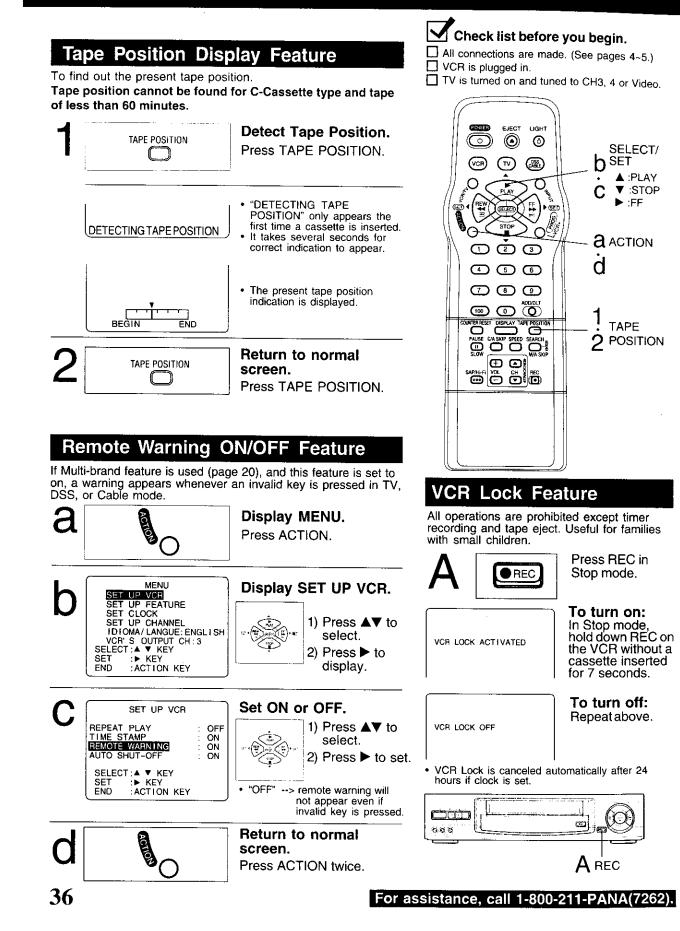
Record tab in place. (See page 40.)



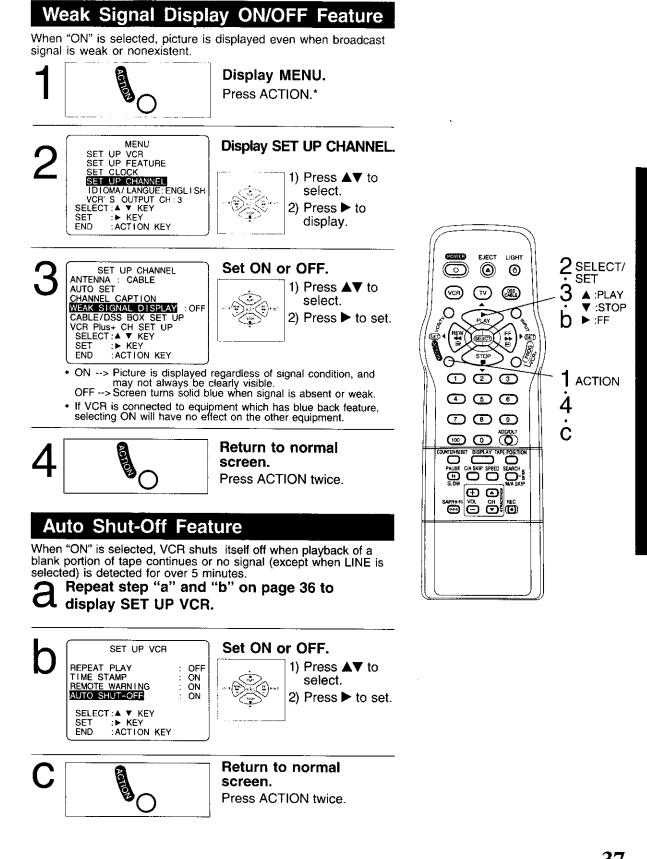
*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH/ M/A SKIP or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



Special VCR Features

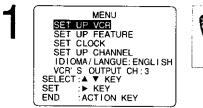


*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH/ M/A SKIP or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



Special VCR Features

Reset Language, Channels, Clock, VCR's





Display MENU. Press ACTION.*



| 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 |
| |

Press > repeatedly.

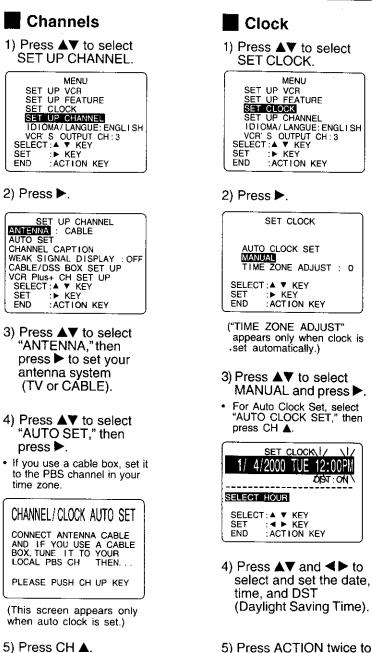
| | MENU |
|--------|--------------------|
| SET | UP VCR |
| SET | UP FEATURE |
| SET | CLOCK |
| SET | UP CHANNEL |
| IDIO | MA/LANGUE: ENGLISH |
| VCR' | S OUTPUT CH:3 |
| SELECT | :▲ ▼ KEY |
| SET | : KEY |
| END | :ACTION KEY |
| · | |

For English

For Spanish

| Í MENU |
|-----------------------------|
| REGLAGE MAGNETOSCOPE |
| REGLAGE MAGNETO SUPPLEM |
| REGLAGE HORLOGE |
| REGLAGE CANAL |
| LANGUAGE/ IDIOMA : FRANCAIS |
| CA SORTIE:3 |
| SEL. : A V |
| BEGLEB :► |
| EIN ACTION |
| |
| For French |

For French



· Clock Auto Set will be performed when channels are replaced in memory.

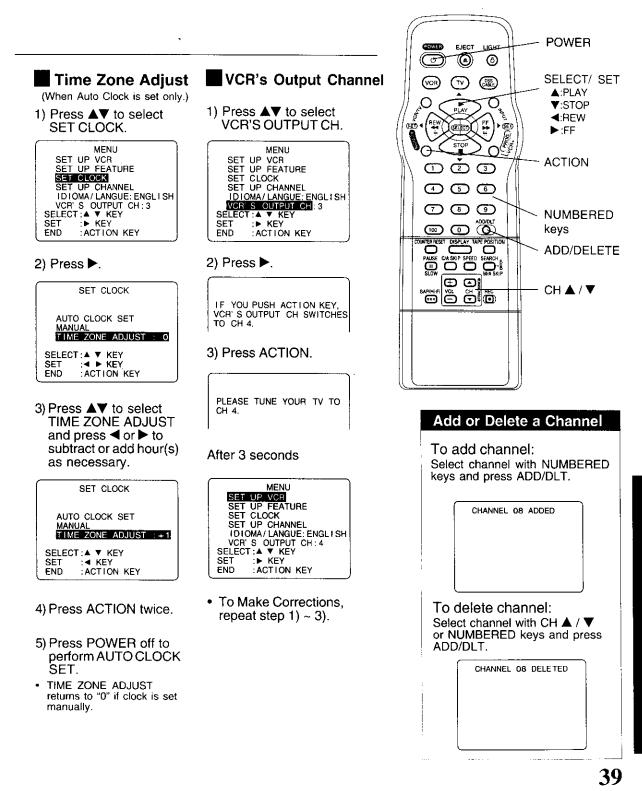
For assistance, call 1-800-211-PANA(7262).

start the clock and exit

this mode.

Dutput Channel

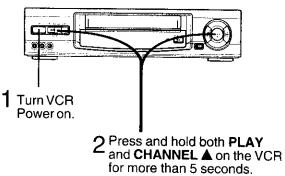
*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH/ M/A SKIP or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



VCR & Cassette Information

Reset All VCR Memory Functions

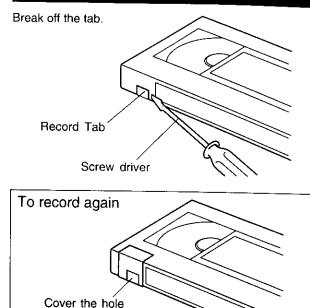
Use when moving VCR to new location, or if a mistake was made in the One Time VCR Setup section. • Make sure a tape is not inserted in the VCR.



• 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

with cellophane tape.

Only use tapes with the WHS mark in this unit.

| Tape Speed | Type of Video Cassette | | | | |
|--------------------------|------------------------|---------|-----------------------|--|--|
| Setting | T 60 | T120 | T160 | | |
| SP (Standard Play) | 1 Hour | 2 Hours | 2 Hours 40 Minutes | | |
| LP (Long Play) | 2 Hours | 4 Hours | 5Hours 20 Minutes | | |
| SLP (Super Long Play) | 3 Hours | 6 Hours | 8 Hours | | |

Head Cleaning

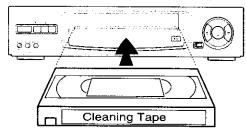
Playing older or damaged tapes may eventually cause video heads to become clogged.

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 45.)

Built-in Head Cleaner

A clean video head helps produce a clear picture.

So, we have equipped your VCR with a builtin, non-chemical head cleaning system that helps prevent clogging of the video heads. Cleaning is performed each time you load or unload a video cassette.

 This feature is preventative only, If your video heads are seriously clogged, consider the use of a chemical non-abrasive head cleaning kit or take your VCR to a Service Center.

Cleaning the VCR

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

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

Specifications

| Power Source: | 120 V AC, 60 Hz | |
|-------------------------|---|--|
| Power Consumption: | Power On | |
| • | Approx. 23 watts | |
| | Power Off | |
| | Approx. 3.3 watts | |
| Video Signal: | EIA Standard NTSC color | |
| Video Recording System: | 4 rotary heads helical | |
| | scanning system | |
| Audio Track: | 1 track (Normal) | |
| | 2 channel (Hi-Fi Audio Sound) | |
| Tuner: | (· · · · · · · · · · · · · · · · · · · | |
| Broadcast Channels: | 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 | |
| · - · | : 5 °C~40 °C (41 °F~104 °F) | |
| Operating Humidity: | 10 %~75 % | |
| Weight: | 3.4 kg (7.4 lbs.) | |
| Dimensions: | 430 (W) x 98 (H) x 250 (D) mm | |
| | 16-15/16" (W) x 3-7/8" (H) x | |
| | 9-3/4" (D) | |

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

Features for a Quality Picture

Digital Auto Picture

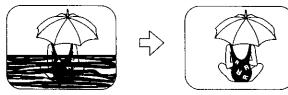
Automatically controls the video output signal for less noise depending on the tape condition.

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)

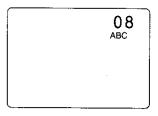
Use during Playback and Slow Motion mode to reduce picture noise. Press CH (TRACKING) \blacktriangle / \checkmark buttons on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.



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

On-Screen Displays (OSD)

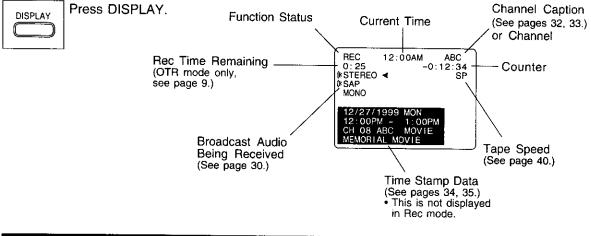
Function & Channel Display



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.(Some Station names may also appear if Channel Caption is set. See page 32, 33.)

VCR Status & Clock Display

To display or remove the overlay.



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

Warning and Instruction Displays

These displays will alert you of a missed operation or provide further 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) | 13 |
| 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 | 41 |
| TURN VCR OFF FOR TIMER RECORDING | After a Timer Program has been set | 13 | VCR LOCK ACTIVATED | If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode | 36 |
| CHECK CASSETTE RECORD TAB | If you press REC on the remote control or VCR, and a cassette is inserted with no record tab | 40 | 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 | 20 21 36 |
| 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 | 20 21 36 |

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.38]) Make sure cassette record tab is intact. (P.40) |
| Timer recording cannot be performed | Check 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.41) Try Head Cleaning. (P.41) |
| 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.36) Make sure remote is in proper mode. (P.20) Make sure unit is not in a Timer Record operation. |
| Remote Control | Correction |
| VCR cannot be remote controlled | Aim Remote Control directly at remote sensor on VCR. (P.50) Avoid any object blocking signal path. Check remote batteries. (P.4) Make sure VCR LOCK is set to off. (P.36) 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.20) 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. Insure no other tape is inside unit. |
| Video cassette cannot be removed | Completely insert Power Plug into 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.40) |
| 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).

For assistance, call 1-800-211-PANA(7262).

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.

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)

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 Glen 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

Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017 TENNESSEE

3800 Ezell Road Suite 806 Nashville, TN 37203

TEXAS 7482 Harwin Drive Houston, TX 77036

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 October '99

Warranty

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

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

PANASONIC Video Products Limited Warranty

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

| PRODUCT 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.

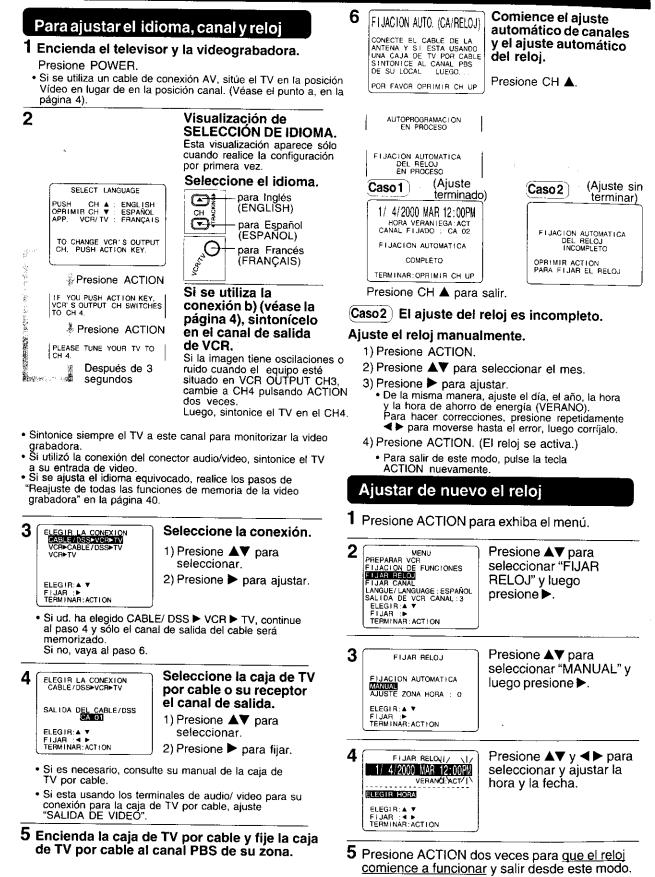
THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS 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 10/20/97

Spanish Quick Use Guide/Guía para rápida consulta



Por ayuda llame al 1-800-211-PANA(7262).

Operaciones básicas para la reproducción

Para encontrar una escena en particular

Para ver una imagen fija (congelada) --->

Para ver imágenes cuadro a cuadro --->

Para hacer avanzar la cinta rápidamente

Operaciones básicas para la

Presione CH ▲ / ▼ o las teclas numéricas

3 Seleccione la velocidad de grabación.

= Reproducción estándar,

Para parar ---> Presione STOP.

hora de grabación (30 min - 4 horas).

La vídeograbadora termina la grabación a

Grabación normal -> 0:30 -> 1:00 -

4:00-3:00-2:00-1:30-

Larga duración,

Grabación de un toque

una hora programada.

4 Comience la grabación.

grabación en progreso.

= Superlarga duración.

Búsqueda hacia adelante ---> Presione FF

Inserte un casete.

Búsqueda hacia atrás

Para parar ---> Presione STOP

Para rebobinar la cinta

Para expulsar la cinta

grabación

Lengüeta 🖥

2 Seleccione el canal.

correspondiente.

Presione SPEED.

Presione REC.

SP

• LP

• SLP

1

· La videogrababora se enciende automáticamente.

2 Presione PLAY.

· O, si el casete no tuviera la lengüeta de grabación (véase la página 40), se inicia la reproducción automática.

---> Presione REW.

---> Presione REW.

Precione FF

Inserte un casete.

· La videogrababora se

Programación fácil para la grabación con temporizador

1 Exhiba FIJAR PROGRAMACION.

Presione PROG/VCR+.

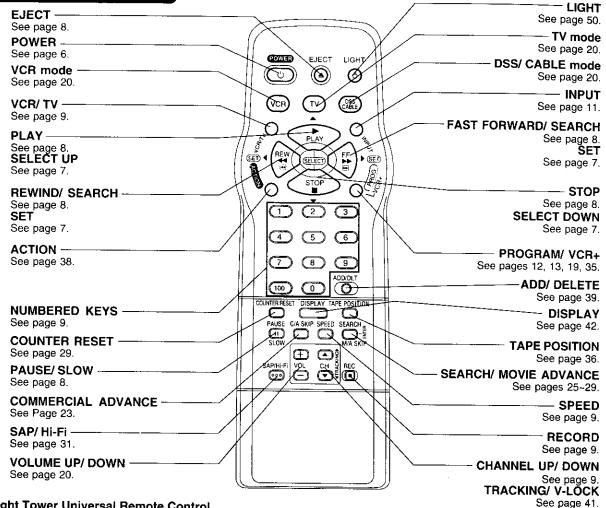


Guía para rápida consulta

encendida y esté sintonizada al canal que desea grabar. 49

Location of Controls

Remote control Buttons

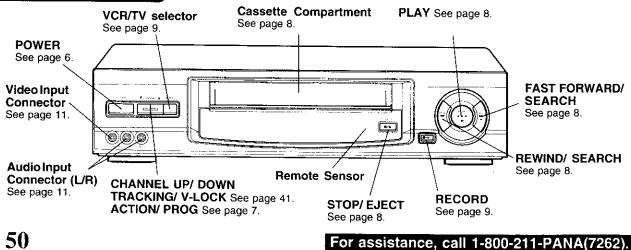


Light Tower Universal Remote Control

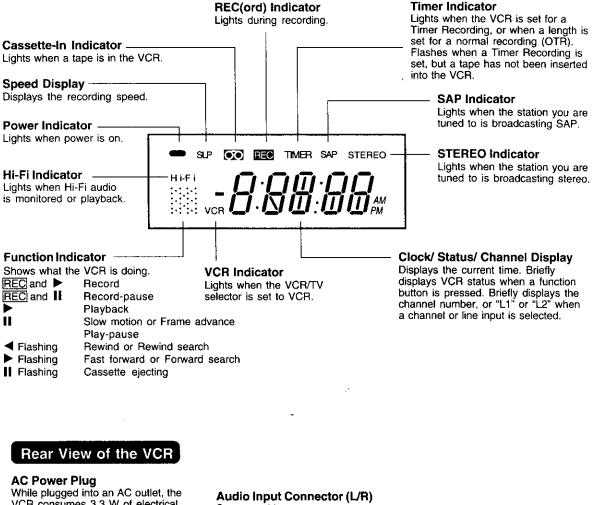
Light button: When the LIGHT button is pressed, the buttons which can be activated in the selected mode will light and the selected mode button (TV/VCR or CABLE DSS) will flash for 5 seconds. If no buttons are pressed within 5 seconds, the light will turn off in order to conserve battery power. Also while holding down the buttons, the selected mode button will flash so you will be able to see, in the dark, which mode has been selected. EJECT button: When EJECT is pressed, the tape is ejected from Cassette Compartment.

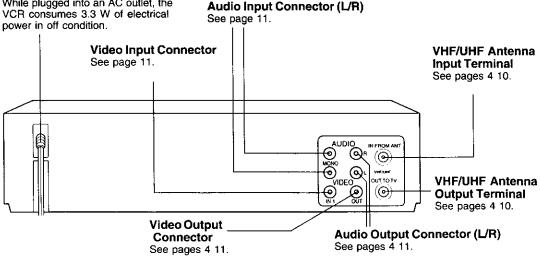
If EJECT is pressed during recording, the VCR will not respond to the command.

Front View of the VCR



Multi Function Display



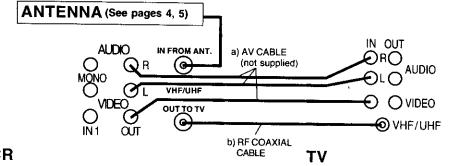


Location of Controls

Quick Use Guide

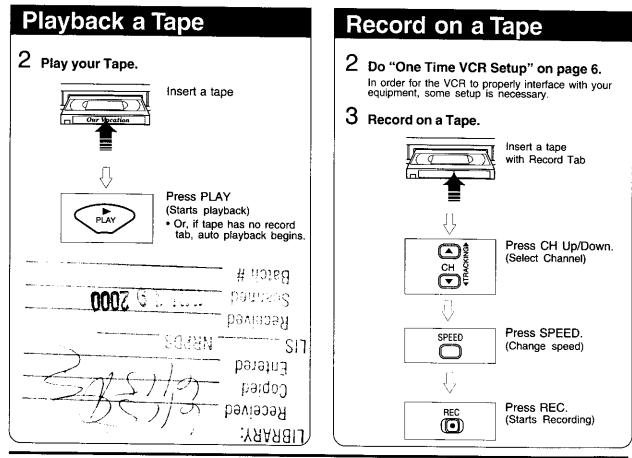
1 Make all connections (page 4).

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.





- Notes 1) While connection b) (above) is sufficient, connection a) offers better sound and picture (especially with this model, you can enjoy Hi-Fi STEREO sound).
 - 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 Output to channel 3 or 4 (not an active station). (See page 6.)



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