Basic Operation

Advanced Operation

Panasonic

Combination VCR Operating Instructions Model No. PV-C1321A



Omnivision WHS



- Initial Setup and Connection Procedures are on pages 7 to 9.
- SELF-DEMO Procedure is on page 6.



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

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

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

LSQT0421A

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

Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION

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

2 POWER CORD PLUG

For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

POLARIZED PLUG CAUTION:

The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not

- tamper with the plug.
- GROUNDING PLUG CAUTION:
- The plug requires a three-hole grounding outlet.
- If necessary, have an electrician install the proper
- outlet. Do not tamper with the plug.

3 POWER CORD

- To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:
- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords is a fire hazard.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a gualified electrician.
- 4 DO NOT BLOCK VENTILATION HOLES
- Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard or heat damage to cassettes.
 - For your protection:
 - Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
 - b. Avoid built-in installation, such as a book case or rack, unless properly ventilated.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place unit over or near a heater or regulator, in direct sunlight, etc. If unit is suddenly moved from a cold place to a warm place, moisture may condense in unit and on the tape causing damage.

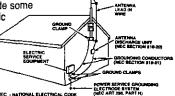
6 TO AVOID PERSONAL INJURY

- Never place unit on support or stand 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.
- Move any appliance and cart combination with care.
 Quick stops, excessive force, and
- uneven surfaces may cause objects to overturn. • Carefully follow all operating instructions.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage. Section 810 of the National Electrical Code,

ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information



regarding 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

Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

- 1 KEEP UNIT WELL AWAY FROM WATER OR MOISTURE, such as vases, sinks, tubs, etc.
- 2 IF EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug unit and have it inspected by a qualified service technician before use.
- **3 ELECTRICAL STORMS**

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

WHEN UNIT IS PLUGGED IN

- DO NOT OPERATE IF:
- liquid has spilled into unit.
- unit was dropped or otherwise damaged.
- unit emits smoke, malodors, or noises.

Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.

- Never drop or push any object through openings in unit. Touching internal parts may cause electric shock or fire hazard.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

5 USING ACCESSORIES

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

6 CLEANING UNIT

Unplug unit. 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 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

1 DO NOT SERVICE PRODUCT YOURSELF

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

2 REPLACEMENT OF PARTS

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

3 SAFETY CHECK AFTER SERVICING

After unit is serviced or repaired, request that a thorough safety check be done as described in the manufacturer's service literature to insure video unit is in safe operating condition.

2

Safety Precautions/Mesures de sécurité

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

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

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment.

Only use those tapes with the WIS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

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



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

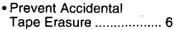
This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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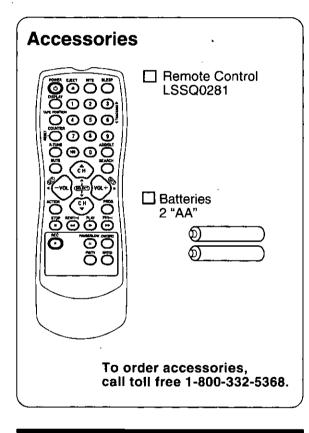
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Before Using

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 unit.

Date of Purchase	
Dealer Purchased From	
Dealer Address	
Dealer Phone No	
Model No PV-C1321A	
Serial No.	



SELF-DEMO Mode

With Power ON, press PLAY/ REPEAT on the unit for 5 seconds to deactivate the SELF-DEMO Mode.

Repeat this to display demo screen.

Loading the Batteries



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

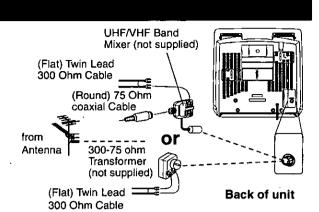
Connections

Outdoor Antenna Connections

Unhook the antenna from your previous TV or VCR and connect it to the back of the unit as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied.)

WARNING:

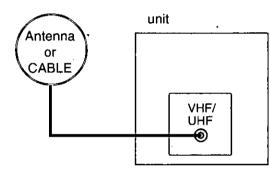
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.



DSS/Cable box Connections

Without a Cable Box

- You can;
- record or view unscrambled channels. You cannot;
- record or view scrambled channels.
- view a channel other than the one
- selected for any type of recording.



With a Cable Box

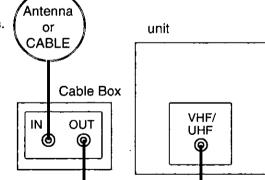
You can;

• record or view any channel including scrambled channels. NOTE: Channel selection must be made at the cable box. You cannot;

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

Note to CABLE System Installer

This reminder is provided to call the CABLE (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



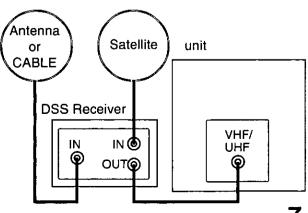
With a DSS Receiver

You can;

- record or view any channel including scrambled channels.
- NOTE: Channel selection must be made at the DSS Receiver.

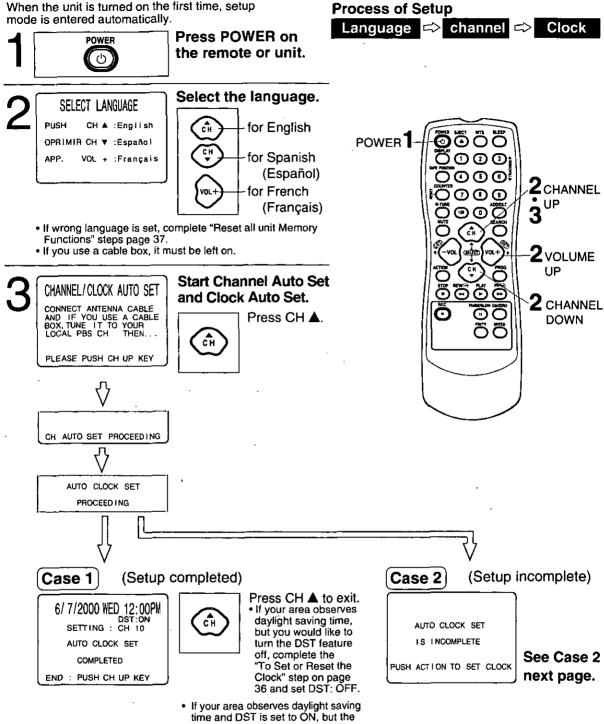
You cannot;

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.
- NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.



One Time Setup

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

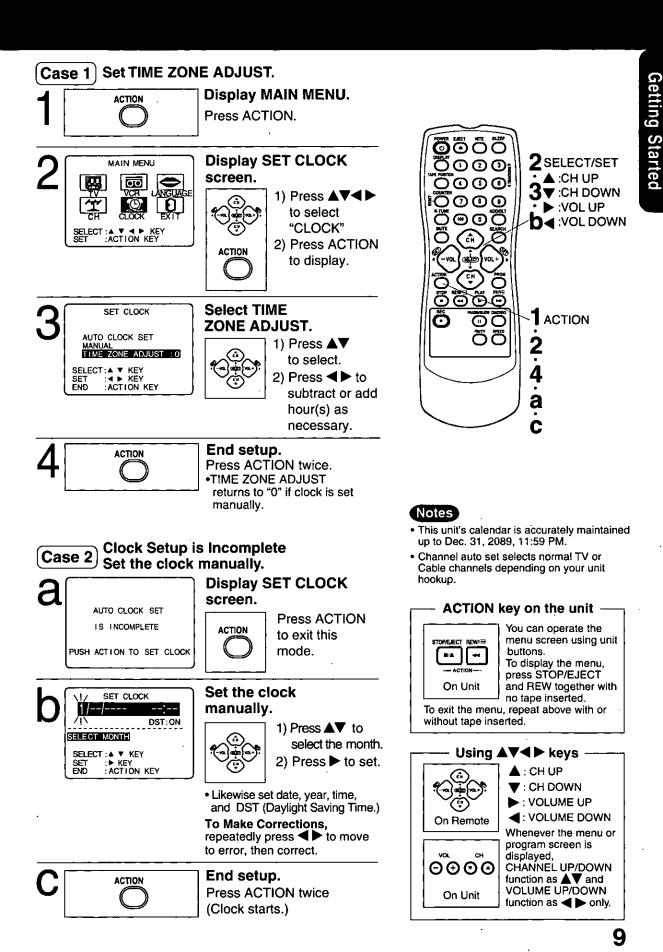


time is incorrect; complete the Time Zone Adjust steps on the next page.

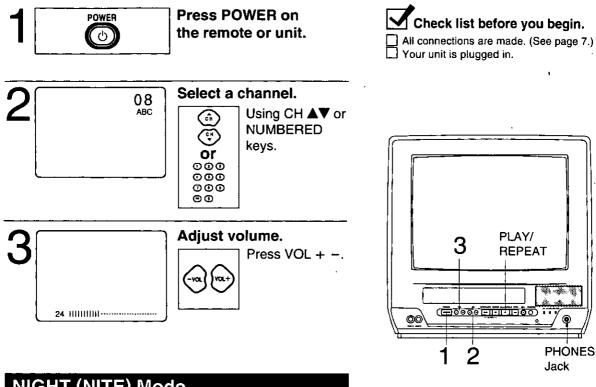
IMPORTANT NOTE FOR AUTO CLOCK SET

- · Auto clock set is performed the first time when the unit is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time the unit power is turned off if you want auto clock set to be done.
- If using a DSS receiver, it must be turned off for auto clock set.
- If a Cable Box or DSS receiver is connected to the unit via Audio/Video Jacks, an RF coaxial cable must also be connected for auto clock set and channel auto set features.
- · If for any reason the time is changed manually, automatic time correction will not occur.

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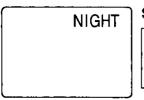






NIGHT (NITE) Mode

Color and picture intensity levels are adjusted so the screen is easier on your eyes during night time use.



Set NIGHT mode.

Press NITE. NITE

 NIGHT mode may be selected when watching TV, playing a tape, or while in FM mode.

To Cancel, press NITE.

- Previous settings are restored.
- NIGHT mode is canceled when power is turned off or power failure occurs.

Using the 100 key

When selecting CABLE channels 100 to 125 with the NUMBERED keys, first press the 100 key, and then enter the remaining two digits.

Rapid Tune

Press R-TUNE to display the last channel you were watching.

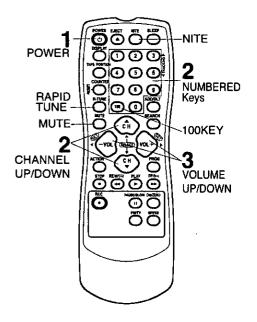
Audio Mute

Press MUTE to instantly mute the sound. Press again, to restore the previous sound level.

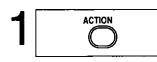
Phones

10

Connect an earphone (not supplied) or headphones (not supplied) to the Phones Jack.

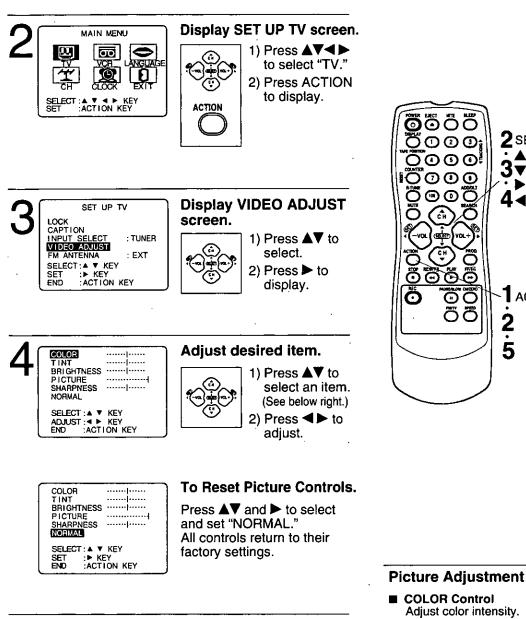


Picture Adjustment



Display MAIN MENU.

Press ACTION.



End setup.

to exit.

Press ACTION three times

ACTION

- TINT Control Adjust for natural flesh tones.
- BRIGHTNESS Control Adjust picture brightness.
- PICTURE Control Adjust picture intensity by adjusting both contrast and color level in the proper balance.
- SHARPNESS Control Adjust picture sharpness.

2 SELECT/SET

3 CH DOWN

4 derived the second s

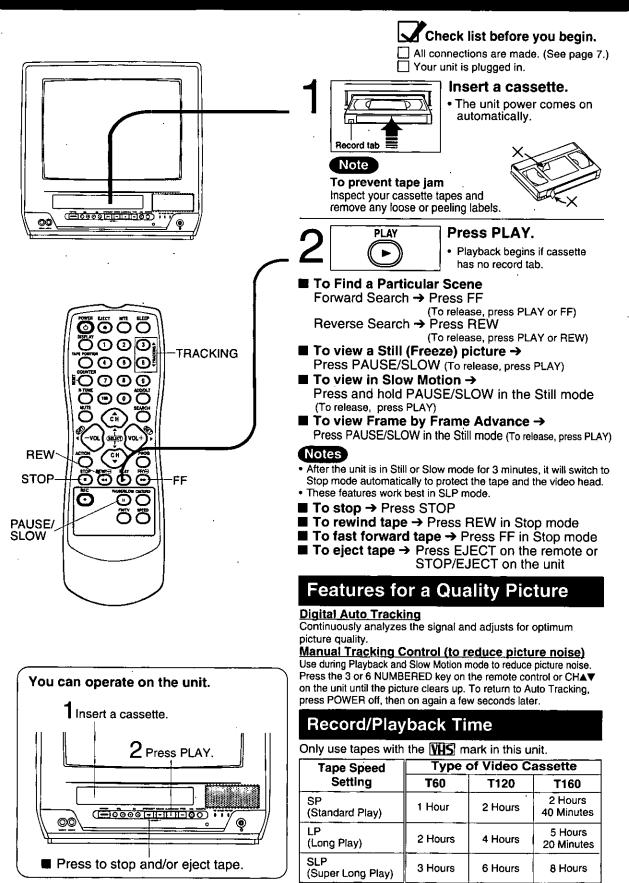
A:CH UP

• D:VOL UP

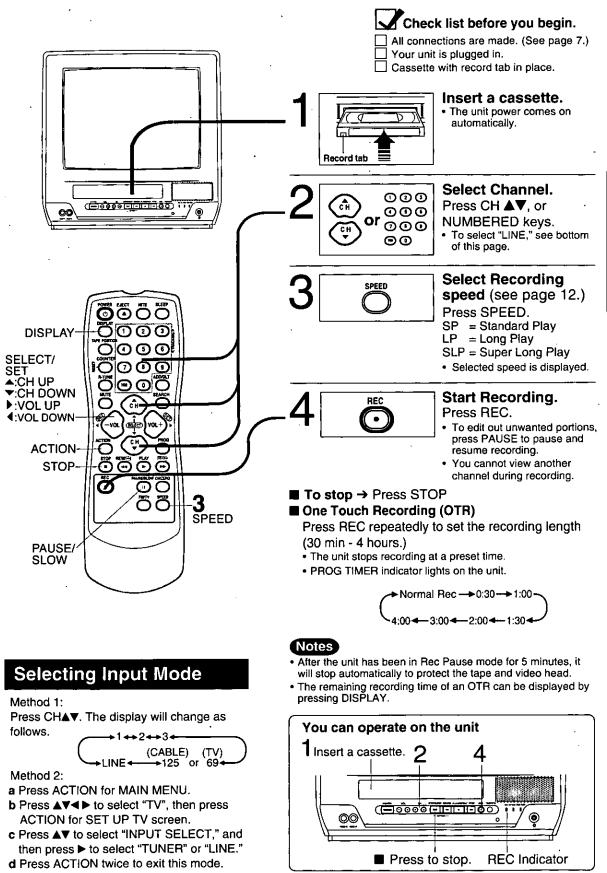
ACTION

2 5

Playback a Tape



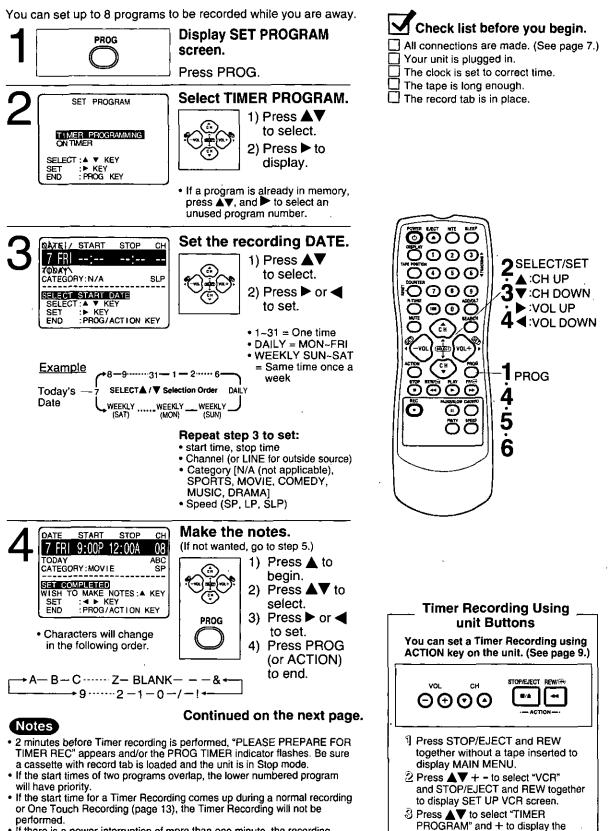
Record On a Tape



Basic Operation

3

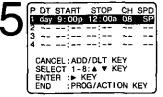
Timer Recording



- If there is a power interruption of more than one minute, the recording may not be performed or continue.
- If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.

TIMER PROGRAM screen.

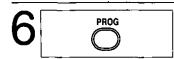
Repeat main steps 3~6.



End the program.

Press PROG (or ACTION.)

To Enter More Programs Press $\blacktriangle \forall$ and \triangleright to select and set a blank program number, and then repeat steps 3 and 4.



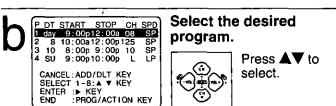
Exit this mode.

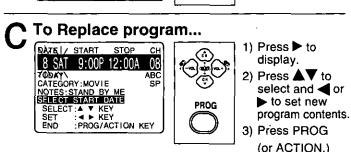
Press PROG

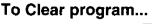
- (or ACTION) twice.
 If you're using a cable box, make sure that it is turned to the desired
- sure that it is turned to the desired channel and the power is left on for timer recording.
- PROG TIMER indicator lights on the unit.

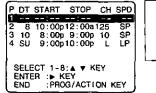
Review, Replace or Clear Program Contents : (Recording is not in progress)

Repeat steps 1 and 2 on page 14.

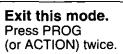








PROG



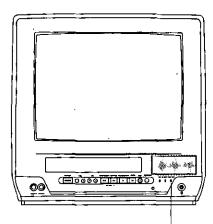
ADD/DLT

Press ADD/DLT.

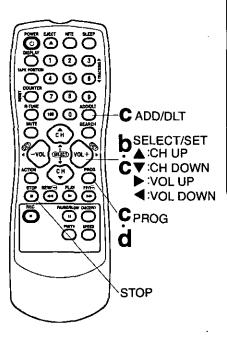
Cancel a Timer Recording: (Recording <u>is</u> in progress)

Hold down STOP for a few seconds to cancel the Timer Recording.

 Any future daily or weekly recordings will be performed as programmed.



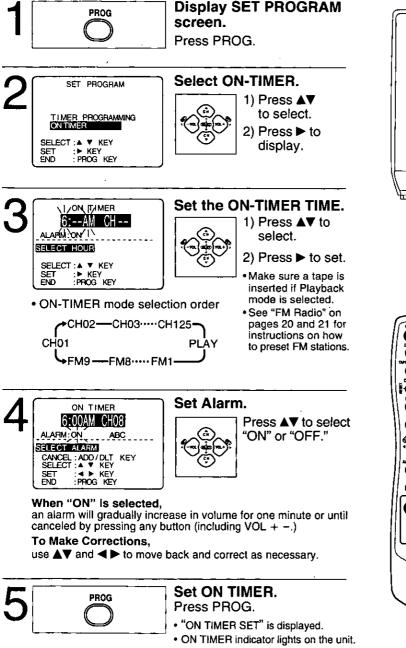
PROG TIMER indicator



TV Timer Features

ON-TIMER with Alarm

This unit can be set to automatically power on in one of 3 modes (TV, Playback, or FM Radio.) You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

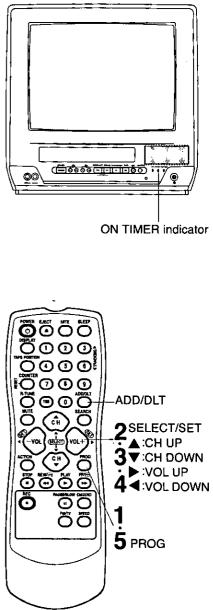


To cancel ON-TIMER set,

Repeat steps 1 and 2. Then, press ADD/DLT to clear the time in step 3. Now, press PROG to end. "ON TIMER END" appears on-screen for a few seconds.

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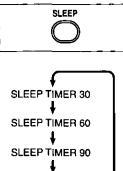




If no button on the remote or unit (including a button used to turn off the alarm) is pressed within 60 minutes after unit turns itself on, it will turn itself back off.

SLEEP TIMER

This unit can be set for auto power off.

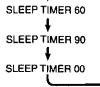


Set SLEEP TIMER.

Press SLEEP repeatedly.

- Pressing DISPLAY with sleep
 - timer set displays remaining time.

To Cancel, press SLEEP repeatedly until "SLEEP TIMER 00" appears.



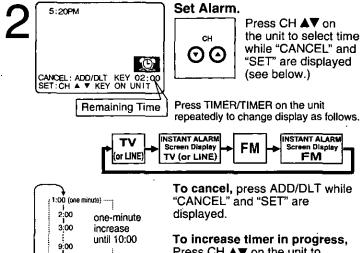
INSTANT ALARM

The feature allows you to set a timer alarm for up to 60 minutes. Useful for when you are cooking and need to leave the kitchen.



Display INSTANT ALARM screen.

Press TIMER/TIMER on the unit to display.



Press CH AV on the unit to restart countdown rounded up to next 1, 5, or 10 minute interval while "CANCEL" and "SET" are displayed.

n Display

FM

<Example>

- If current time remaining is 12:15,
- countdown will restart from 15:00. If current time remaining is 9:15.
- countdown will restart from 10:00.

Alarm will sound at 0:00.

Press any button to stop.

five-minute

until 30:00

ten-minute

until 60:00

increase

increase

10:00

15:00

20:00

25:00

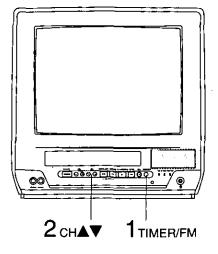
40:00

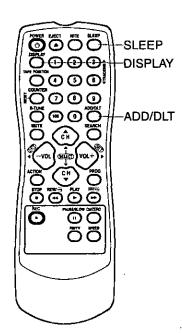
50:00

30:00 ::::

60:00 (Max) ----

. The volume of the alarm gradually increases for one minute and then continues to beep until any button is pressed.







While timer function is in progress, you can change channels on the unit with CH AV while "CANCEL" and "SET" are not displayed.

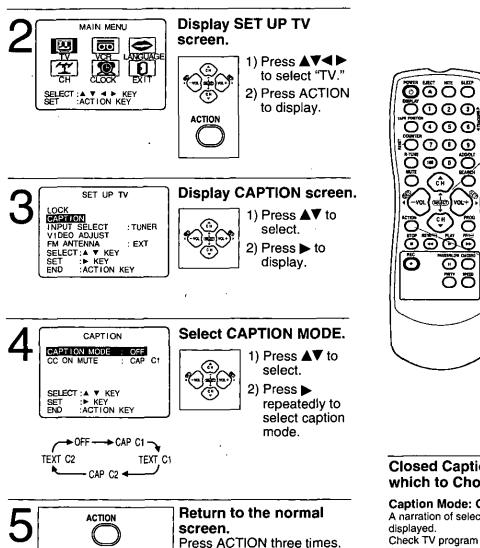
Closed Caption System

Closed Caption Mode Feature

ACTION

Display MAIN MENU.

Press ACTION.



Recording and Playing Back a Closed Caption/ Text Program

Record:

Record normally. Closed Caption/Text signal, if present, is recorded automatically.

Playback:

18

Start playback. Do above steps to select desired caption mode.

Closed Caption is ...

This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

ZSELECT/SET

3▼:CH DOWN

:VOL UP

ACTION

2 5

4 :VOL DOWN

🔺 :CH UP

Closed Caption Modes from which to Choose

Caption Mode: CAP C1 or C2

A narration of selected TV programs is Check TV program listings for C. C. (Closed Caption) broadcasts.

Caption Mode: TEXT C1 or C2

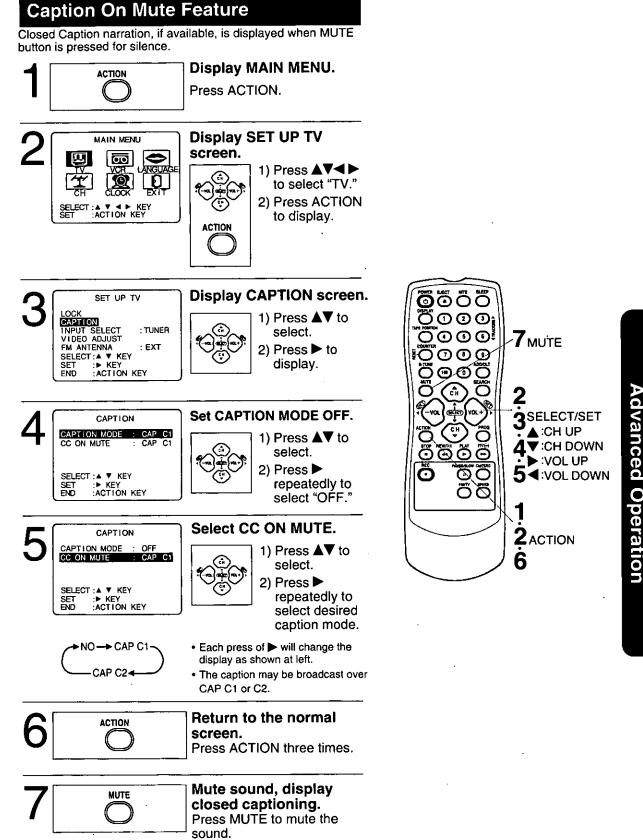
The lower half of the screen will be blocked out. When the TV station broadcasts information, such as program listings, it will appear in this space.

Caption Mode: OFF

Closed Caption /Text narration will not be displayed.

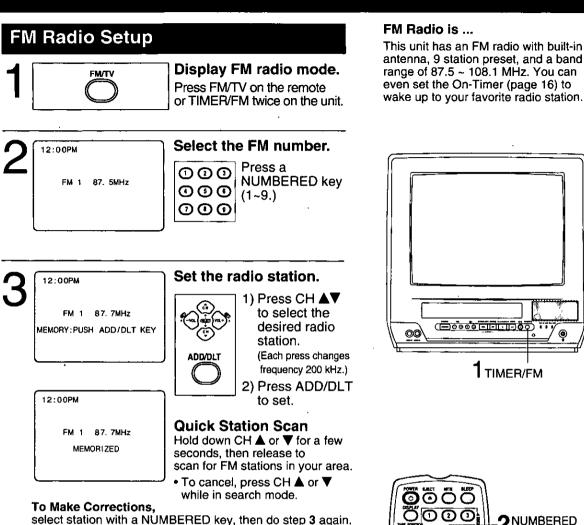
NOTE:

The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.



• To cancel, press MUTE again.

FM Radio



To Make Corrections.

select station with a NUMBERED key, then do step 3 again. To exit FM mode, press FM/TV on the remote or TIMER/FM twice on the unit.

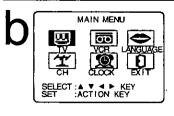
FM ANTENNA Setup

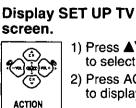
Make sure FM tuning is done correctly (See FM Radio Setup.)



Display MAIN MENU.

Press ACTION.





1) Press AV to select "TV." 2) Press ACTION to display.

Continued on the next page...

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3 ADD/DLT

SELECT/

aACTION

1 FM—T∨

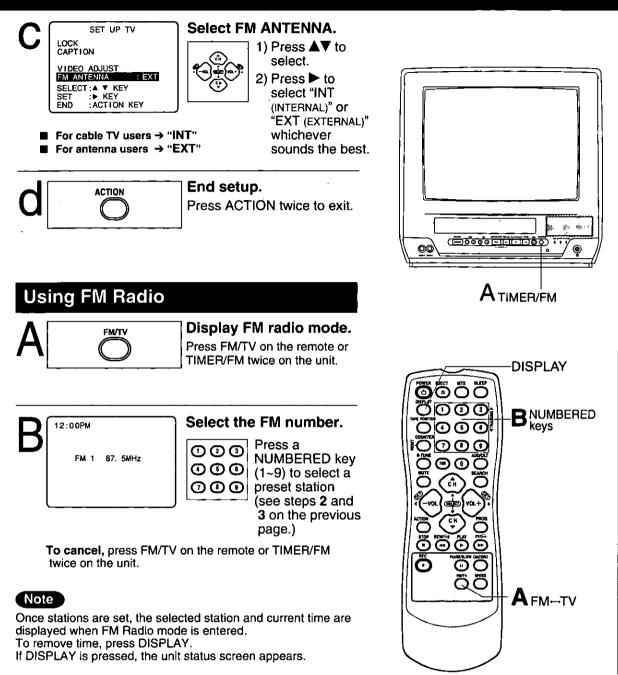
С

b d

▲:CH UP D €:CH DOWN

►:VOL UP

€:VOL DOWN





- FM radio cannot be recorded on a Video cassette.
- You may get better reception by repositioning the unit.
- You cannot select FM Radio mode during playback or record, or while a blue back screen (PROG, ACTION, MENU) is displayed.

Tape Operation

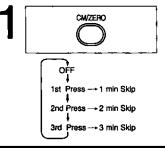
Commercial Skip

By pressing the CM SKIP button in Play mode you can skip over 1 to 3 minutes of recorded tape in just a few seconds.

Set Skip Time.

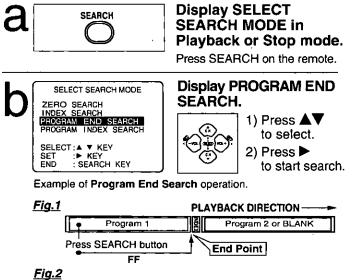
to select skip time.

Press CM/ZERO repeatedly



Program End Search

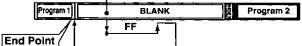
It is easy to detect the end of a recorded program so that you may continue or begin a new recording.



<u>Fig.2</u>

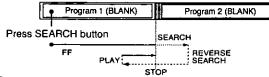
BLANK Program 2 BLANK Program 1 Press SEARCH button End Point FF

Fig.3 If search exceeds a few seconds in BLANK area. Press SEARCH button



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 stop.

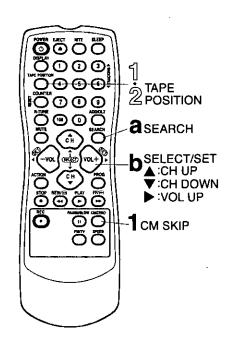


Notes

22

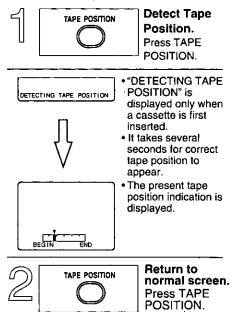
- If Program End Search is started very close to an index mark, one program may be skipped over.
- If you want to cancel Program End Search, Press PLAY or STOP.

Your unit is equipped with several time saving features as well as convenient automatic functions which make tape operation easier than ever.

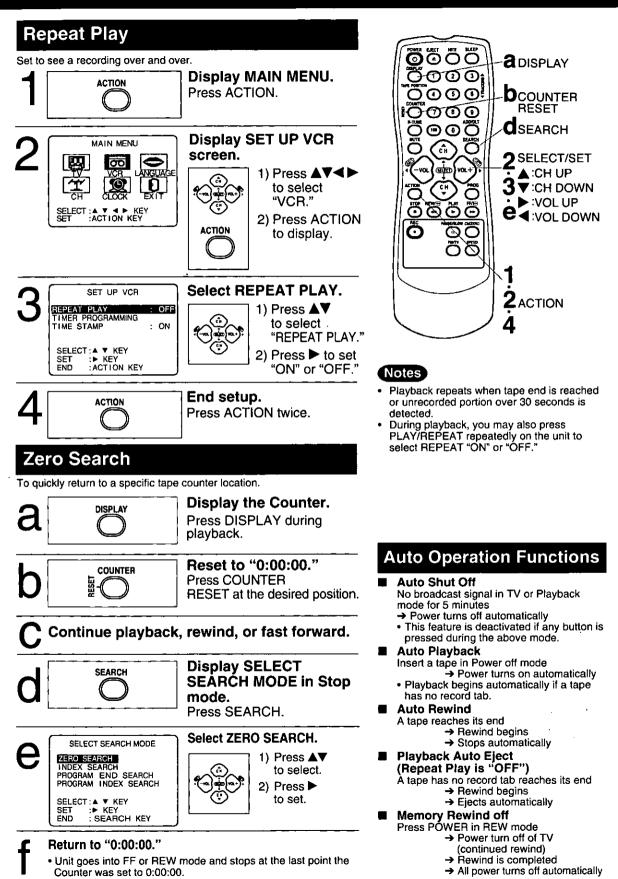


Tape Position Display

To find out the present tape position. Tape position cannot be detected for C-Cassette and tapes of less than 60 minutes.



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



Advanced Operation

Tape Operation (continued)

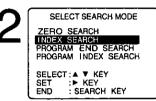
Direct Access (For Normal and/or Timer recordings)

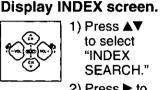
Go directly to the desired recording.



Display SELECT SEARCH MODE screen. Press SEARCH in

Playback or Stop mode. If there are no Timer Recordings on the Program Index List, go to step 3.



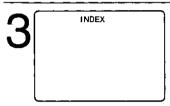


to select "INDEX

SEARCH." Press ► to

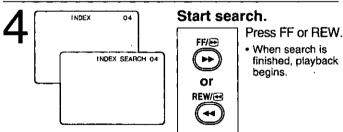
display.

 This screen appears only if there are Timer Recordings.



Select th number.	e recording
000	Press
000	NUMBERED
000	keys.

To calculate number, see below.

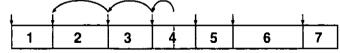


 When search is finished, playback

To calculate the Index Number

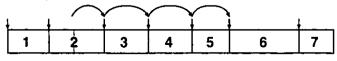
Example 1:

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



Example 2:

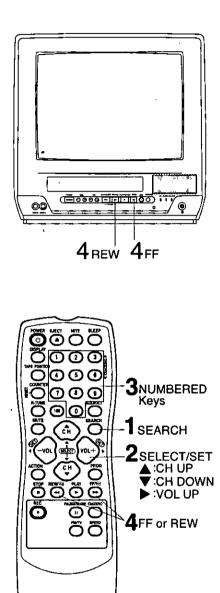
If you are watching recording 2 and you want to watch recording 6, enter 4 in step "3" and press FF.



NOTE: | indicates start points of each recording.

VHS Index Search System is ...

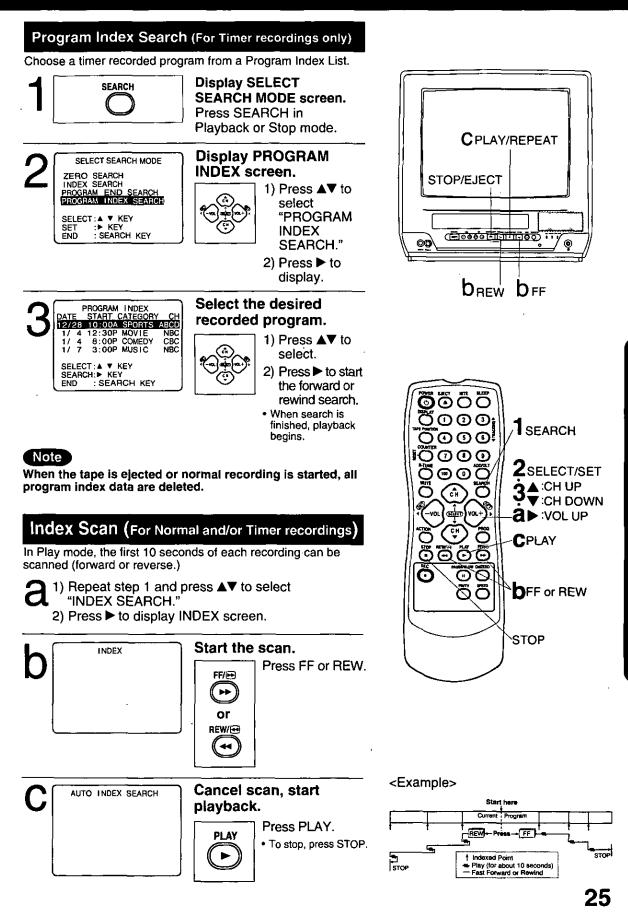
Each time recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.



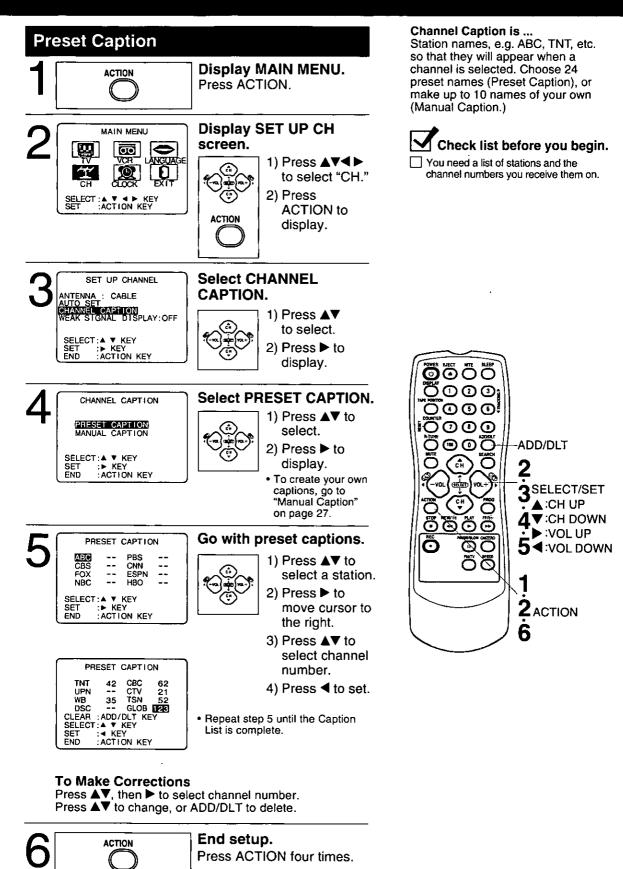
Notes

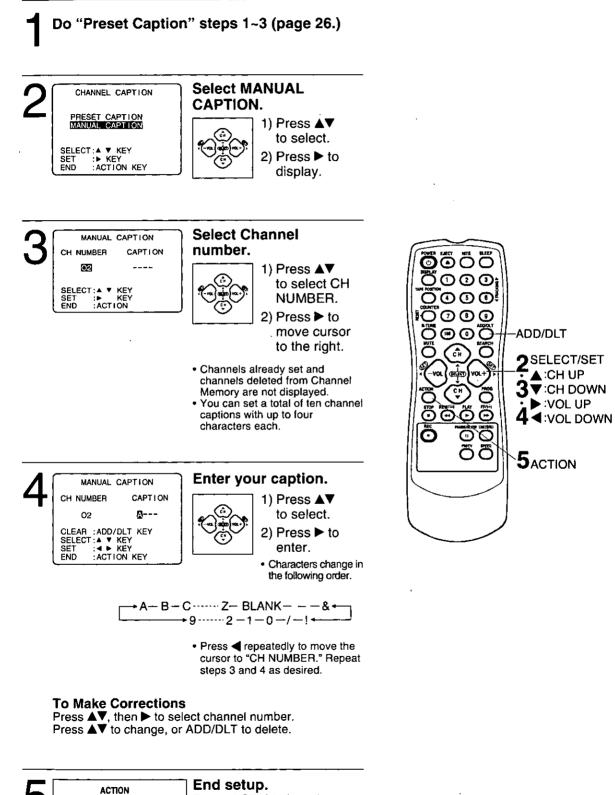
- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- If these VHS Index Search Systems are started very close to an index mark, that index mark may not be counted in the search.

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



Special VCR Features





Press ACTION four times.

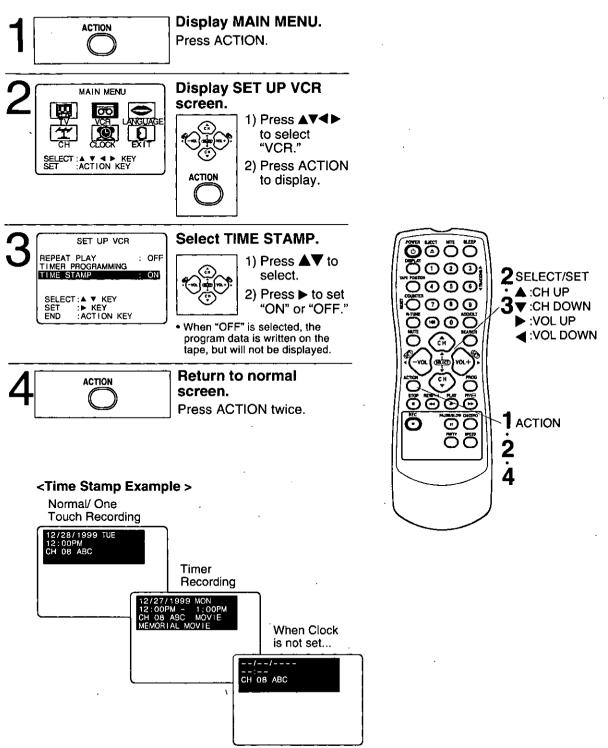
Special VCR Features (continued)

Check list before you begin.

The record tab is in place.

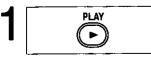
Time Stamp Feature

This unit writes program data (see example below) for 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" section on next page.



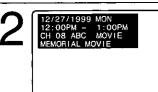
Changing Time Stamp Data

You may change the time stamp data (Date, Time, Channel, Category, and Notes) as desired.

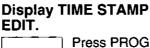


Display Time Stamp Data.

1) Insert cassette with record tab. 2) Press PLAY.



TIME STAMP EDIT

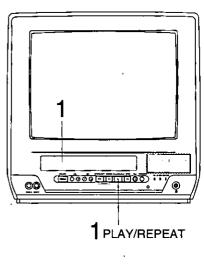


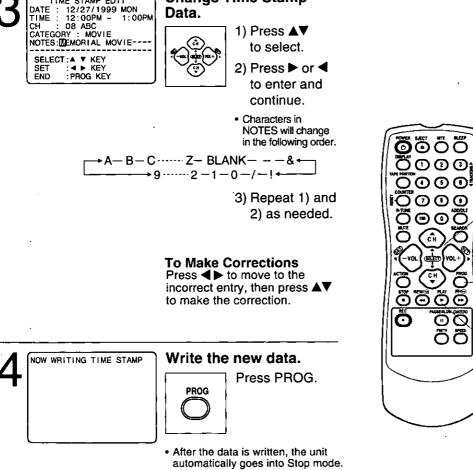
Change Time Stamp

PROG









 You cannot use POWER or REC button while "NOW WRITING TIME STAMP" is displayed.

SELECT/SET

CH UP

VOL UP ■:VOL DOWN

PROG

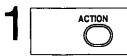
PLAY

CH DOWN

Special VCR Features (continued)

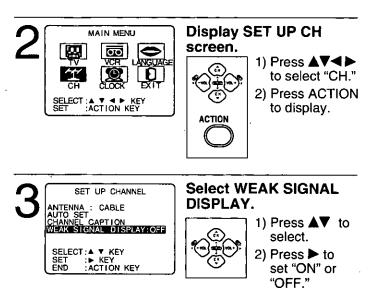
Weak Signal Display ON/OFF

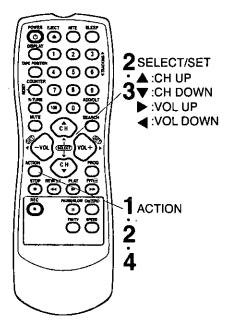
When "ON" is selected, picture is displayed even when a broadcast signal is weak or nonexistent.



Display MAIN MENU.

Press ACTION.





Notes

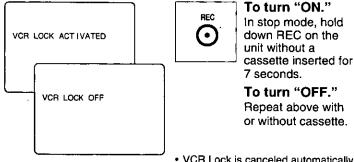
- "ON" = Picture is displayed regardless of signal condition, and may not always be clearly visible.
- "OFF" = Screen turns solid blue when signal is absent or weak. • If unit is connected to equipment which has blue back feature,
- selecting "ON" will have no effect on the other equipment.

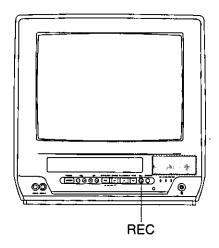


Return to the normal screen. Press ACTION twice.

VCR Lock

All operations are prohibited except Timer recording and tape eject. Useful for families with small children.





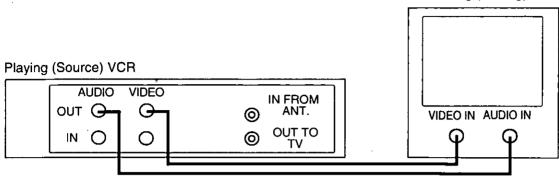
 VCR Lock is canceled automatically after about 24 hours if clock is set.

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

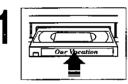
Copy Your Tapes (Dubbing)

Connections you'll need to make.

Recording (Editing) unit

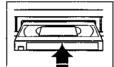


Playback (Source) VCR



Insert prerecorded tape.

Recording (Editing) unit



Insert blank tape with record tab.

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



Select "LINE" mode.

See "Selecting Input Mode" section on page 13.



Put in Standby mode. Press PLAY then PAUSE at starting point.

REC PAUSE/SLOW

Put in Standby mode.

Press REC, then PAUSE/SLOW immediately.



Start dubbing. Press PLAY.



Start dubbing. Press PAUSE/SLOW.



Stop dubbing. Press STOP/ EJECT.

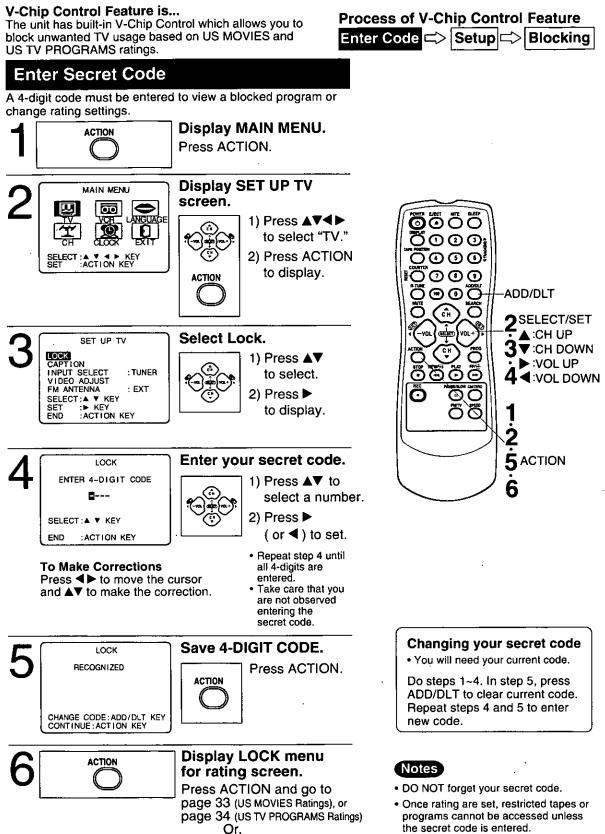


Stop dubbing. Press STOP.

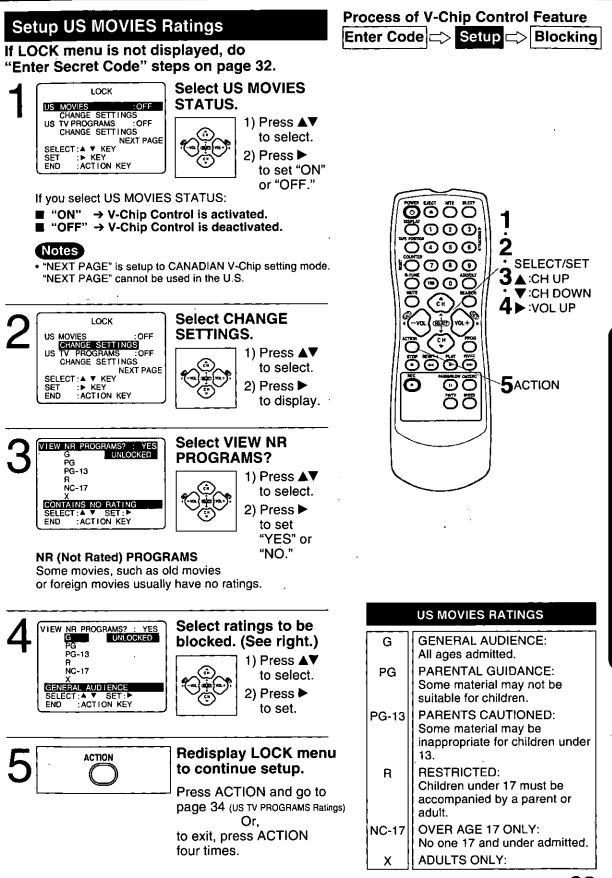
Caution

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

V-Chip Control Feature

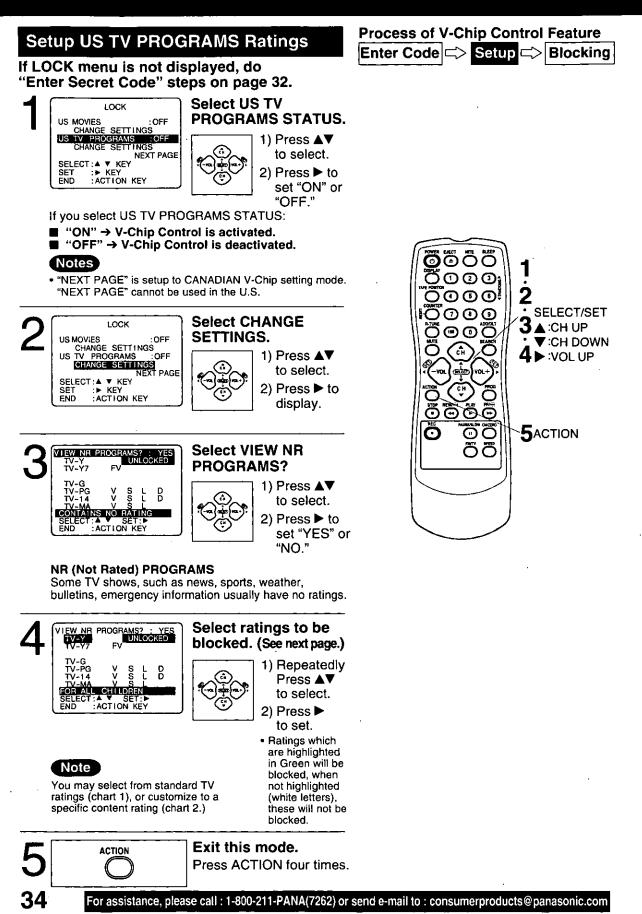


to exit, press ACTION four times.



Advanced Operation

V-Chip Control Feature (continued)



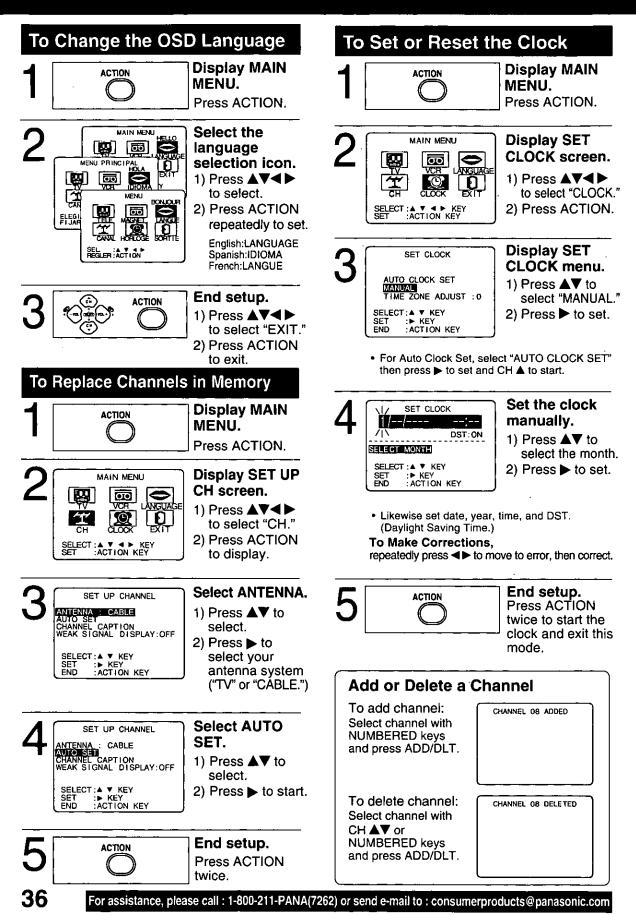
US TV Chart	V PROGRAMS RATINGS:	Process of V-Chip Control Feature Enter Code ⊏> Setup ⊏> Blocking
TV-Y	FOR ALL CHILDREN: Content specifically geared to young viewers ages 2-6.	·
тv-у7	FOR AGE 7 AND OLDER:	Blocking Message
.	May contain mild physical or comedic violence which may frighten children under 7.	<when activated="" control="" is="" v-chip=""></when>
TV-G	GENERAL AUDIENCE: Contains little or no violence, strong language, or sexual dialogue or situations.	ABC PROGRAM RATING EXCEEDED RATING:PG-13 If V-Chip Control is activated, and a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is
TV-PG	PARENTAL GUIDANCE: May contain infrequent coarse language, limited violence, some	muted.
	suggestive sexual dialogue and situations.	STOP 11:00AM ABC 0:12:34 SP If DISPLAY is pressed, even when V-Chip control is deactivated, rating is
TV-14	PARENTS CAUTIONED: May contain sophisticated themes, sexual situations, strong language, and more intense violence.	RATING:PG-13 displayed on-screen.
TV-MA	MATURE AUDIENCE: May contain mature themes, profane language, graphic violence, and sexual situations.	To Continue Viewing a Blocked Program After entering your 4-digit secret code, go to step 1 on
		both pages 33 and 34 and select "OFF" to deactivate

US TV PROGRAMS RATINGS: Chart 2		
FV	Fantasy Violence	
V	Violence	
s	Sexual Situations	
L	Adult Language	
D	Sexually Suggestive Dialogue	

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V-Chip Control. • The US MOVIES and US TV PROGRAMS ratings you set will be retained. Advanced Operation

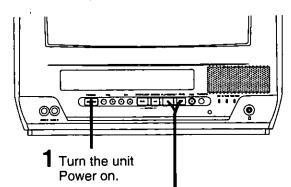
Reset Language, Channels, Clock



Unit Information

Reset all unit Memory Functions

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



Press and hold both PLAY and FF on the unit for more than 5 seconds.
The power will shut off.

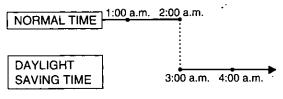
3 Do "One Time Setup" steps on page 8.

DST (Daylight Saving Time)

Unit auto adjusts clock for DST (Daylight Saving Time.)

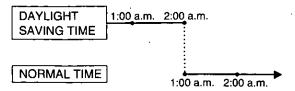
Spring (First Sunday in April)

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 unit for timer recordings.

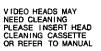
Head Cleaning

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

Head Clog Sensor

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

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape directions carefully.
 Excessive use of head cleaning tape can shorten the video head life.



END:PLAY KEY

13 inch measured diagonal 90 ° deflection Picture Tube

 If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See Page 44.)

Specifications

Display Picture Tub

Picture Tube:

VCR

Video Recording System: 2 rotary heads helical scanning

	system
Audio Track:	1 track
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 ~ ĔEE (37 ~ 64)
	Lowband A-5 ~ A-1 (95 ~ 99)
	Special CABLE channel 5A (01)
	Ultraband 65 ~ 94, 100 ~ 125

87.5 ~ 108.1 MHz

FM Radio Band range:

General Power Source: Power Consumption:

Television System: Speaker: Operating Temperature: Operating Humidity: Weight: Dimensions:

120V AC, 60 Hz <u>Power On</u> Approx. 69 watts <u>Power Off</u> Approx. 4.5 watts EIA Standard NTSC color 1 piece 5 °C ~ 40 °C (41 °F ~ 104 °F)10 % ~ 75 % 12 Kg (26.4 lbs.) 386 (W) X 385 (H) X 374 (D) mm 15-3/16" (W) X 15-3/16" (H) X14-3/4" (D)

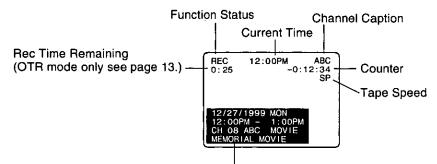
Note: Designs and specifications are subject to change without notice.

On-Screen Display (OSD)

VCR Status & Clock Display



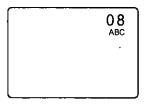
To display or remove the overlay. Press DISPLAY.



Time Stamp Data (See page 28, 29.)

Channel & Function Display

When a function button is pressed (PLAY, FF, etc.) or you change channels, the unit mode or channel number will be displayed. (Some station names may also appear if Channel Caption is set. See pages 26, 27.)



Blue Screen Display

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 ON/OFF" (see page 30) set to "OFF," the TV screen will turn solid blue.

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Warning and Instruction Displays

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

OSD	Caution	Page	
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH CH UP KEY AGAIN	 If no active channels are found for CHANNEL MEMORY 		
PLEASE SET CLOCK BEFORE PROGRAMMING	 If you attempt to set or review a Timer Recording or set the On-Timer and the Clock is not set 		
CHECK CASSETTE RECORD TAB	 If you press REC, and a cassette is inserted with no record tab 		
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP during a Timer Recording		
NO CASSETTE PLEASE INSERT A CASSETTE	 If you press PLAY, FF, REW, or REC without a cassette inserted 		
PLEASE PREPARE FOR TIMER REC	 If the unit is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin 		
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 		
VCR LOCK ACTIVATED	 If you press a function button other than STOP/EJECT or POWER while the unit is in VCR Lock mode 		

Before Requesting Service

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

Power	Correction			
No power	 Completely insert Power Plug into an AC outlet. Set POWER button to ON . 			
Monitor	Correction			
No picture or sound	 Make sure your antenna system (TV or CABLE), is correctly set. (P. 7) Completely insert Power Plug into an AC outlet. Set POWER button to ON. 			
Poor picture with normal sound	 Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P. 11) 			
Poor sound with normal picture	Adjust VOLUME control. (P. 10)			
Poor TV reception	• Adjust SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 11)			
No color or poor color	 Adjust TINT and COLOR controls in the SET UP TV menu. (P. 11) 			
Ghost (multiple) images	Install a directional antenna.			
TV programs cannot be watched	 Make sure the selected channel is in unit's memory. (P. 36) 			
Channel cannot be selected	 Only the channel begin recorded can be viewed on this unit. 			
VCR	Correction			
TV program cannot be recorded	 Make sure your antenna system (TV or CABLE), is correctly set. (P. 7) Make sure cassette record tab is intact. (P. 6) 			
Timer recording cannot be performed	 Check that clock is set to current time and date. Make sure DSS/CABLE box (if used) is left on and tuned to channel to be recorded. Set recording Start/Stop time correctly. (P. 14, 15) 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. 			
No playback picture, or the playback picture is noisy or contains streaks	 Adjust TRACKING control in either direction. (P. 12) Try Head Cleaning. (P. 37) 			
VCR cannot be controlled	Make sure VCR LOCK is set to off. (P. 30)			
	Make sure unit is not in a Timer Record operation.			
Remote Control	Correction			
Unit cannot be controlled	 Aim remote at remote sensor on unit (P. 47) so that signal is unobstructed. Inspect the remote batteries. (P. 6) Make sure VCR LOCK is set to off. (P. 30) Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference. 			
Miscellaneous	Correction			
Video cassette cannot be inserted	 Insert the cassette window side up; record tab facing you. 			
Video cassette cannot be removed	Completely insert Power Plug into an AC outlet.			
Tape cannot be ejected or inserted	 Try ejecting or inserting the tape again after turning POWER off, then back on. 			
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. 6)			
In Stop mode, the VCR motor (CYLINDER) continues to rotate	 To enable Quick Play mechanism, the VCR cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode. 			
VCR cannot be controlled	Make sure VCR LOCK is set to off. (P. 30)			

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

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

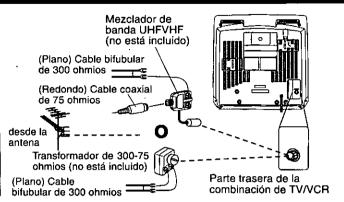
Spanish Quick Use Guide/Guía para rápida consulta

Conexión de la antena externa

Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente y conéctela a la parte trasera del registrador Combinación de VCR/TV, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un mezclador de banda UHF/VHF (no viene con el equipo.)

ADVERTENCIA:

Al utilizar cables coaxiales RF del "Tipo tuerca", solo debe apretarse con los dedos. Si se aprieta demasiado los cables pueden resultar dañados.

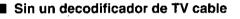


Antena

0

Cable TV

Conexiones de TV cable

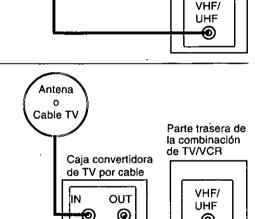


Podrá;

• grabar o ver canales sin codificar.

No Podrá;

- grabar o ver canales codificados.
- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.



Parte trasera de

la combinación

de TV/VCR

Con un decodificador de TV cable

Podrá;

- grabar o ver cualquier canal incluso los canales codificados.
- NOTA : El canal deberá ser seleccionado en el decodificador de TV cable.

No Podrá;

- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el decodificador de TV cable.

Para ver y grabar un canal codificado/ no codificado Sintonice el canal del Registrador de la combinación de TV/VCR en el canal de salida de la caja convertidora de televisión por cable (por ejemple el canal 3.) Después, seleccione en el decodificador de TV cable el canal que se quiera ver o grabar.

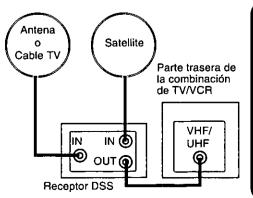
Con un receptor DSS

Podrá;

grabar o ver cualquier canal incluso los canales codificados.
 NOTA : El canal deberá ser seleccionado en el receptor DSS.

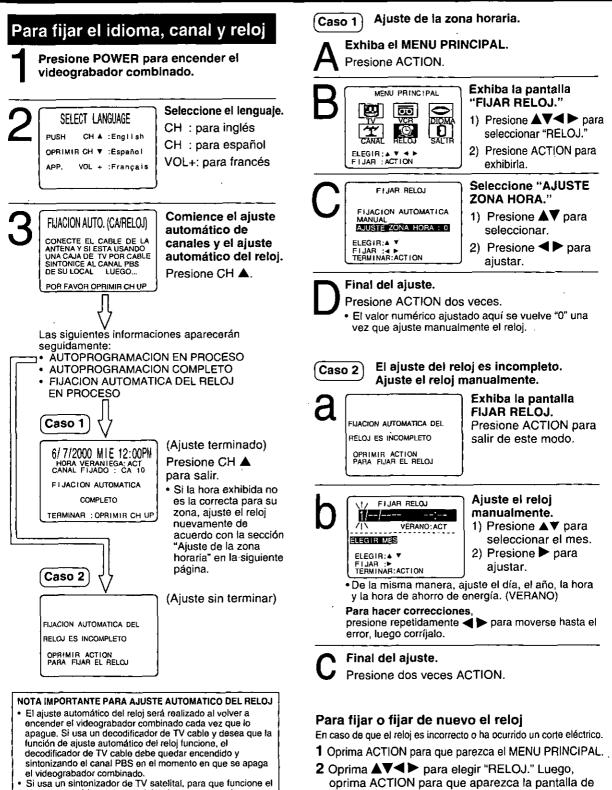
No Podrá;

- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el receptor DSS.
- NOTA : El receptor DSS debe estar apagado para ver programas desde un decodificador de TV cable o desde la antena. Consulte el manual del receptor DSS para más detalles.



For Your Information

Spanish Quick Use Guide/Guía para rápida consulta



- Si usa un sintonizador de TV satelital, para que funcione ajuste automático del reloj, debe de estar apagado.
 Si usa un toma de audio/video para conectar el
- Si usa un ona de autovidos para conectar el videograbador combinado y el decodificador de TV cable o el sintonizador de TV satelital, deberá también conectar el cable coaxial RF para poder usar las funciones de ajuste automático de reloj y ajuste automático de canal.
 Si por cualquier razón se cambiara la hora manualmente,
- Si por cualquier razón se cambiara la hora manualmente, no se podrá realizar la corrección automática de la hora.

Por ayuda, Ilame al 1-800-211-PANA(7262) o envie e-mail a : consumerproducts@panasonic.com

la FIJAR RELOJ.

3 Oprima ▲▼ para elegir "MANUAL," y luego ►

4 Por favor continue con los pasos b y c de la

instrucción anterior (Caso 2.)

para que aparezca la pantalla de la FIJAR RELOJ.

Operaciones básicas para la reproducción

Inserte un casete.

• El videograbador combinado se enciende automáticamente.

Presione PLAY.

- La reproducción comienza automáticamente si el casete no tiene la lengüeta para prevención de grabación.
- Para encontrar una escena en particular Búsqueda hacia adelante → Presione FF Búsqueda hacia atrás → Presione REW
- Para ver una imagen fija (congelada) → Presione PAUSE/SLOW
- Para ver en cámara lenta → Mantenga pulsado el botón PAUSE/SLOW en el modo de imagen fija
- Para ver imágenes cuadro a cuadro → Presione PAUSE/SLOW en el modo de imagen fija
- Para parar → Presione STOP
- Para rebobinar la cinta → Presione REW
 Para hacer avanzar la cinta rápidamente →
- Presione FF ■ Para expulsar la cinta → Presione STOP/EJECT en el videograbador combinado

Operaciones básicas para la grabación

- Inserte un casete con la lengüeta para prevención de grabado.
- El videograbador combinado se enciende automáticamente.

Seleccione el canal.

Presione CH ▲♥ o las teclas numéricas correspondiente.

Seleccione la velocidad de grabación.

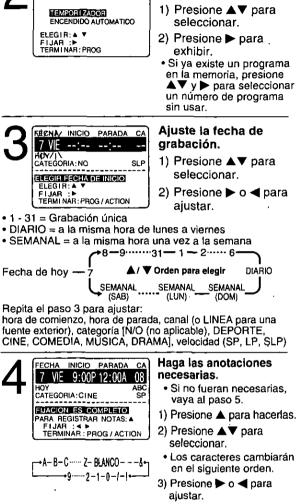
- Presione SPEED.
- SP = reproducción normal
- LP = reproducción larga
- SLP = reproducción super larga
- La velocidad seleccionada debe aparecer en la pantalla.

Comience la grabación.

- Presione REC.
 - Para editar partes no deseadas de una grabación, presione PAUSE para hacer una pausa durante la grabación.
 - No podrá ver otro canal durante la grabación.
 - Para parar → Presione STOP.
 - El videograbador combinado deja de grabar a una hora prefijada. (Grabación de un toque) Presione REC repetidamente para

ajustar la hora de grabación (30 min - 4 horas.)

← Grabación normal ← 0:30 ← 1:00 ~4:00 ← 3:00 ← 2:00 ← 1:30 ←



Grabación con temporizador

Exhiba FIJAR PROGRAMACION.

Exhiba

TEMPORIZADOR.

Presione PROG.

FIJAR PROGRAMACION





Termine el programa. Presione PROG (o ACTION.) Para Introducir más programas.

presione ▲▼ y ▶ para seleccionar y ajustar el número de programa en blanco, y luego repita los pasos 3 y 4.

🔿 Salga de este modo.

- Presione PROG dos veces (o ACTION.)
 - Si está usando un decodificador de TV cable, asegúrese que se encuentra en el canal deseado y que la alimentación queda conectada para grabar con temporizador.
 - El indicador PROG TIMER se enciende en el videograbador combinado.



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 9 am-9 pm Saturday-Sunday 9 am-7 pm, EST. or send e-mail to : consumerproducts@panasonic.com

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

Accessory Purchases:

1-800-332-5368 (Customer Orders Only) Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check)

Factory Servicenters Locations

CALIFORNIA 6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

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 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

TEXAS 13615 Welch Road Suite 101 Farmers Branch, TX 75244 WASHINGTON 20425-84th Avenue South Kent, WA 98032

HAWAII 99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter: Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Phone (787)750-4300 Fax (787)768-2910

As of January 2000

Limited Warranty

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

PANASONIC Video Products Limited Warranty

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

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

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

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free contact number listed above, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

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

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

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO RECORDING MEDIA) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the Panasonic Consumer Electronics Company address above.

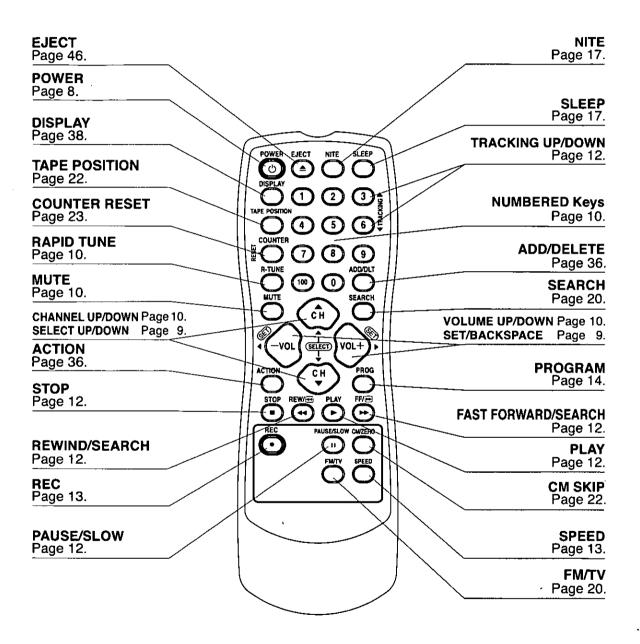
SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 8/8/2000 For Your Information

Location of Controls

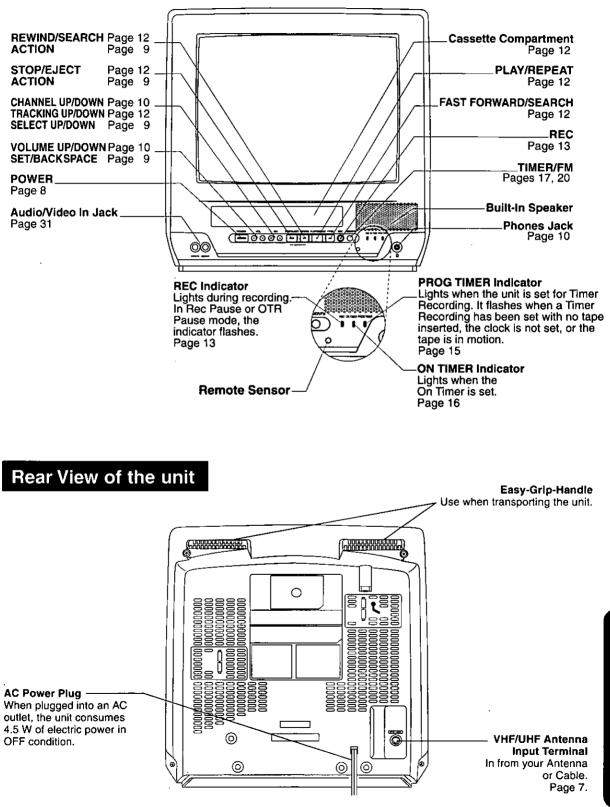
Remote Control Buttons

EJECT button:

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



Front View of the unit and Indicators on the Front Panel



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For Your Information

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

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Panasonic Sales Company ("PSC"), Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 de Infanteria. Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

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