

mnivision WS

Panasonic®

Combination VCR Operating Instructions

Model No. PV-C1323A/PV-C1333WA PV-C1343A/PV-C1353WA



Initial Setup and Connection Procedures are on pages 8 and 9.



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.)

Important Safeguards and Precautions

READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS INTHE 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 qualified 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:

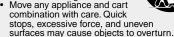
- a. Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
- b. Avoid built-in installation, such as a book case or rack, unless properly ventilated.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDENTEMPERATURE 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.

6TO 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.



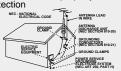
Carefully follow all operating instructions.

OUTDOOR ANTENNA INSTALLATION

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 KEÉP ANTÉNNA 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.

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.

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

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 through safety check be done as described in the manufacturer's service literature to insure video unit is in safe operating condition.

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 WHS 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.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



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.

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: http://www.eiae.org.>

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	
Serial No.	

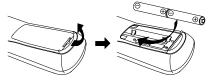
Accessories



- ☐ Remote Control LSSQ0281 (PV-C1323A/PV-C1343A) LSSQ0282 (PV-C1333WA/PV-C1353WA)
- □ Batteries 2 "AA"

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

Loading the Batteries



Battery replacement caution

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

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.





To record again.

Cover the hole with cellophane tape.

Unit Information

Head Cleaning

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

Head Clog Sensor

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

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 directions carefully. Excessive use of head cleaning tape can shorten the video head life.

Features for a Quality Picture

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 the 3 or 6 number key on the remote control or CH ▲▼ on the unit until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.

V-Lock Control

<For Model PV-C1343A/PV-C1353WA only> In Still mode, the 3 or 6 number key on the remote control or CH ▲▼ on the unit on the unit operate as a V-lock control to reduce jitter.

Specifications

Display

Picture Tube:

13 inch measured diagonal 90° deflection Picture Tube

Video Recordina System: 2 rotary heads helical scanning system

(PV-C1323A/PV-C1333WA) 4 rotary heads helical

scanning system (PV-C1343A/PV-C1353WA)

Audio Track: 1 track

Tuner

Broadcast Channels: CABLE Channels:

VHF 2 ~ 13. UHF 14 ~ 69 Midband A through I (14 ~ 22) Superband J through W (23 ~ 36 Hyperband AA ~ EEE (37 ~ 64)

Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A(01) Ultraband 65 ~ 94. 100 ~ 125

FM Radio

Band Range: 87.5 - 108.1 Mhz General 120 V AC, 60 Hz Power Source: Power Consumption: Power On

> Approx. 69 watts Power Off

Approx. 2.5 watts EIA Standard NTSC color Television System:

1 piece

Speaker: Operating Temperature: 5 °C ~ 40 °C (41 °F ~ 104 °F)

10 % ~ 75 % Operating Humidity:

12 Kg (26.4 lbs.) Weight: Dimensions:

386 (W) X 385 (H) X 374 (D) mm 15-3/16" (W) X 15-3/16" (H)

X 14-3/4" (D)

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

Record/Playback Time

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

Tape Speed	Type of Video Cassette		
Setting	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hour	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

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.

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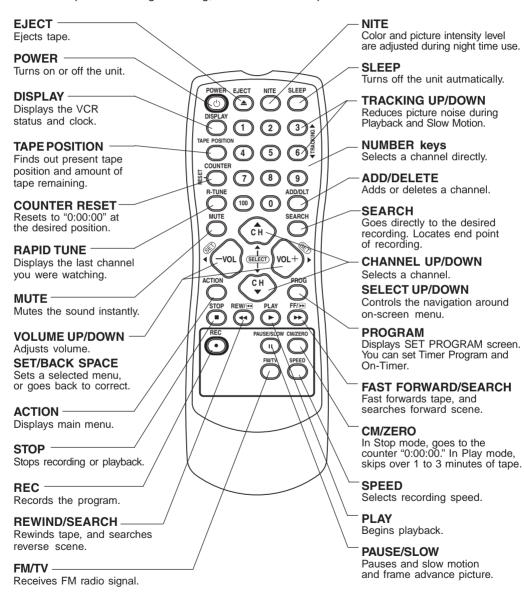
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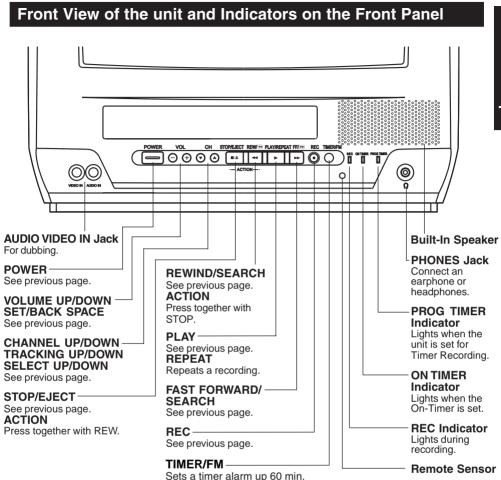
Location of Controls

Remote Control Buttons

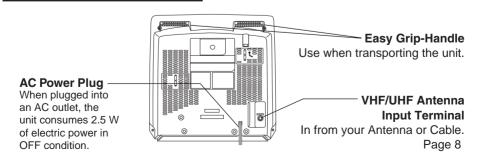
EJECT button:

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.





Rear View of the Unit



Enables FM Radio

Connections/ Initial Setup (Ready to Play)

Please make all cable or antenna connections before powering on.

Connecting

For ANT./Cable

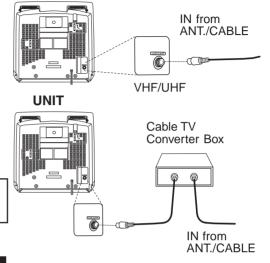
Connect the cable from Antenna/Cable to the VHF/UHF terminal on the unit.

For DSS/Cable Box
Connect the OUT jack on your
cable box to the VHF/UHF
terminal on the unit with a RF

WARNING:

cable

Overtightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.



Initial Setup (Ready to Play)

- Plug the unit power cord into an AC wall outlet.
- Press POWER on the remote or unit. The unit comes on and auto channel and clock set starts.



 If you use a cable box, turn it on and set it to the Public Broadcasting Service (PBS) channel in your time zone. If you use a DSS reciever, it must be turned off.

AUTO CLOCK SET
PROCEEDING
CANCEL: PRESS STOP KEY

3 Settings are made automatically. When setup is done, this screen appears.

2/6/2002 WED 12:00PM DST:0N SETTING: CH 10 AUTO CLOCK SET COMPLETED

If AUTO CLOCK SET IS INCOMPLETE screen appears, set the clock using MANUAL CLOCK SET procedure on next page.

AUTO CLOCK SET

IS INCOMPLETE

PLEASE SET CLOCK BY
PRESSING ACTION KEY

Manual Clock Set

If AUTO CLOCK SET was incomplete, manually set the clock as follows.

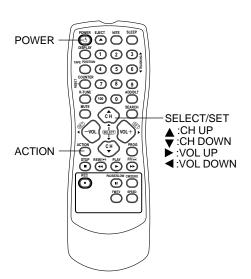
Press ACTION on the remote to display SET CLOCK Menu screen.



Press ▲ ▼ to select the month and press ► to set. In the same manner, select and set the date, year, time, and DST. (Daylight Saving Time)



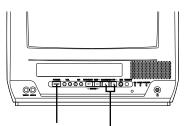
3 Press ACTION twice to start CLOCK and exit.



Reset all unit Memory Functions

When moving unit to a new location, or if a mistake was made in the Initial Setup section.

• Make sure a tape is not inserted in the unit.



- **1** Turn the unit Power on.
- **2** Press and hold both **PLAY** and **FF** on the unit for more than 5 seconds.
 - The power will shut off.
 - Please ignore "NO CASSETTE" warning.
- **3** Do "Initial Setup" on page 8.

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.

Reset Language, Channels, Clock,

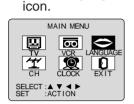
1



Press ACTION to display MAIN MENU.

2 ■ Language

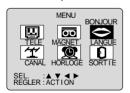
1) Press ▲▼◀▶ to
select language



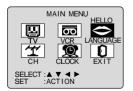
2) Press ACTION repeatedly.



For Spanish



For French

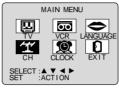


For English

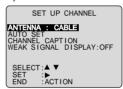
3) Press ▲▼◀► to select "EXIT." Press ACTION to exit.

Channels

1) **Press ▲▼** ► to select "CH."



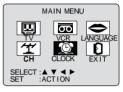
2) Press ACTION.



- Press ▲▼ to select "ANTENNA," then press ► to set your antenna system ("TV" or "CABLE").
- Press ▲▼ to select "AUTO SET," then press ►.
- After Channel Auto Set is finished, Clock Auto Set will be performed. (If clock is set manually, Clock Auto Set will not be performed.)

Clock

1) **Press ▲▼**◀► to select "CLOCK."



2) Press ACTION.



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



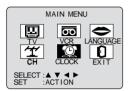
- 4) Press ▲▼ and press ◀► to select and set the month, date, year, time, and DST (Daylight Saving Time).
- 5) Press ACTION twice to <u>start the</u> <u>clock</u> and exit this mode.

Time Zone Adjust

Time Zone Adjust

(Only when Auto Clock is set.)

1) **Press ▲▼ ►** to select "CLOCK."



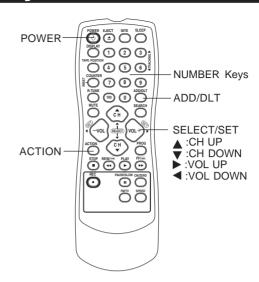
2) Press ACTION.



3) Press ▲▼ to select TIME ZONE ADJUST and press ◀ or ▶ to subtract or add hour(s) as necessary.



4) Press ACTION twice to exit.

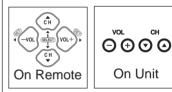


ACTION key on the unit



You can operate the menu screen using unit buttons. To display the menu, press STOP/EJECT and REW together with no tape inserted. To exit the menu, repeat above with or without tape inserted until normal screen appears.

- Using **▲▼**◀▶ keys



▲: CH UP

▼: CH DOWN

▶ : VOLUME UP

■: VOLUME DOWN

Whenever the menu or program screen is displayed, CHANNEL UP/DOWN function as A and VOLUME UP/

DOWN function as ◀► only.

Add or Delete a Channel

To add channel: Select channel with number keys and press ADD/DLT.

CHANNEL 08 ADDED

To delete channel:
Select channel with
CH ▲▼ or number keys
and press ADD/DLT.



Record On a Tape Playback a Tape

Ready Check List

☐ All connections are made. ☐ Your unit is plugged in.

Insert a cassette.

• The unit power comes on automatically.

To prevent tape jam, remove loose or peeling labels from tapes.

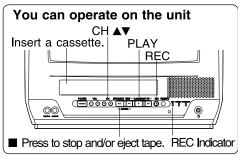


Press PLAY.

- · Playback begins if cassette has no record
- Forward/Reverse scene search
 - => Press FF or REW
 - => PLAY to release.
- Still (Freeze) picture
 - => Press PAUSE/SLOW
- => Press PLAY to release.
- Slow Motion picture => Hold down PAUSE/SLOW in Still mode
 - => Press PLAY to release.
- Frame by Frame picture
 - => Press PAUSE/SLOW in Still mode
- => Press PLAY to release.

Notes

- These features work best in SP or SLP mode (models PV-C1343A/PV-C1353WA) and SLP mode (models PV-C1323A/PV-C1333WA).
- After the unit is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.
- Stop => Press STOP
- Rewind tape => Press REW in Stop mode
- Fast forward tape => Press FF in Stop mode
- Eiect tape => Press EJECT on the remote or STOP/EJECT on the unit



Insert a cassette with record tab.

The unit power comes on automatically.

Press CH ▲▼ or number keys to Select Channel.

- · For "LINE" input, see bottom of next page.
- **Press SPEED** to select recording speed (see page 4).

SP = Standard Play

LP = Long Play

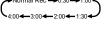
SLP = Super Long Play

· Selected speed is displayed.

Press REC to start recording.

- To edit out unwanted portions, press PAUSE/SLOW to pause and resume
- You cannot view another channel during recording.
- Stop => Press STOP
- One Touch Recording (OTR)

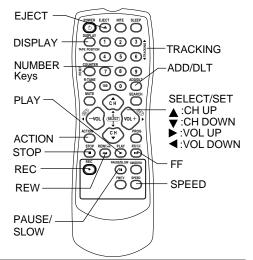
Press REC repeatedly →Normal Rec →0:30→1:00 to set the recording length (30 min - 4 hours).



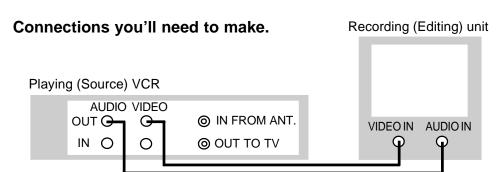
- The unit stops recording at a preset time.
- PROG TIMER indicator lights on the unit.

Notes

- After the unit has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.
- The remaining recording time of an OTR can be displayed by pressing DISPLAY.



Copy Your Tapes (Dubbing)



Playback (Source)

Our Vacation

Insert prerecorded tape.

Recording (Editing) unit



Insert blank tape with record tab.

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

2 _____

Select "LINE" mode.

See "Selecting Input Mode" below.

3



Press PLAY then PAUSE at starting point to put in Standby mode.



Press REC, then PAUSE/SLOW immediately to put in Standby mode.

(Perform operation of steps 4 and 5 on both units at same time.)

4



Press PLAY to start dubbing.



Press PAUSE/SLOW to start dubbing.

5



Press STOP to stop dubbing.

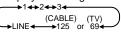


Press STOP to stop dubbing.

Selecting Input Mode

Method 1:

Press CH ▲▼. The display will change as follows.



Method 2:

- a Press ACTION for MAIN MENU.
- b Press ▲▼◀▶ to select "TV", then press ACTION for SET UP TV screen.
- c Press ▲▼ to select "INPUT SELECT," and then press ► to select "TUNER" or "LINE."
- d Press ACTION twice to exit this mode.

Caution

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

TV Operation

Press POWER on the remote or unit.

Ready Check List

All connections are made.

Your unit is plugged in.

2

Use CH ▲▼ or number keys to select a channel.

3

Press VOL + or VOL - to adjust volume.

NIGHT (NITE) Mode

24 ||||||||

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

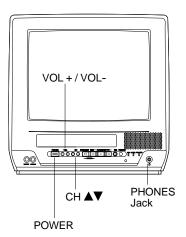
NIGHT

Press NITE to set NIGHT mode.

 NIGHT mode may be selected when watching TV or playing a tape.

Press NITE to cancel.

- · 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 number 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.

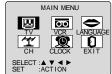
■ Phones

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

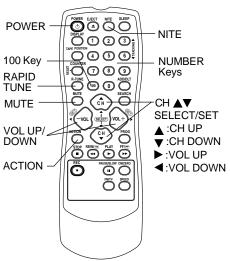
Picture Adjustment

Press ACTION to display MAIN MENU.



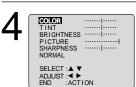


- 1) Press ▲▼◀► to select "TV."
- Press ACTION to display SET UP TV screen.





- 1) **Press ▲**▼ to select VIDEO ADJUST.
- 2) **Press** ► to display screen.



- Press ▲▼ to select an adjustment item. (See below left.)
- Press ◀► to adjust.



To Reset Picture Controls.

Press ▲▼ and ► to select and set "NORMAL."

All controls return to their factory settings.

Picture Adjustment

- COLOR Control Adjust color intensity.
- 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.

5 Press ACTION three times to exit.

TV Timer Features

ON-TIMER with Alarm

This unit can be set to automatically power on in one of 2 modes (TV, Playback, or FM radio).

You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

Press PROG to display SET PROGRAM screen.

SET PROGRAM TIMER PROGRAMMING ONTIMER SELECT :▲ ▼ SET

- 1) Press ▲▼ to select "ON TIMER."
- 2) Press ► to display ON TIMER screen.



 ON-TIMER mode selection order

-CH03----CH125-

PROG

- Press ▲▼ to select desired settings.
- 2) **Press** ► to set the ON-TIMER TIME or ON-TIMER mode.
- Make sure a tape is inserted if Playback mode is selected.
- See "FM Radio" on pages 20 and 21 for instructions on how to preset FM stations.

CH01 ►FM9—FM8 ····· FM1

ALARM: ON

SELECT ALARM CANCEL : ADD / DLT SELECT : ▲ ▼ SET : ◀ ▶

ON TIMER 6:00AM CH08 Press ▲▼ to select ALARM "ON" or "OFF"

When "ON" is selected,

an alarm will gradually increase in volume for one minute or until canceled by pressing any button (including VOL + -).

To Make Corrections,

use **▲▼** and **⋖▶** to move back and correct.

Press PROG to set ON TIMER. • "ON TIMER SET" is displayed.

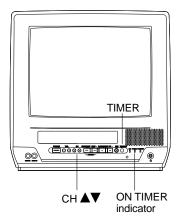
ON TIMER Indicator lights on the unit.

To Cancel ON-TIMER,

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

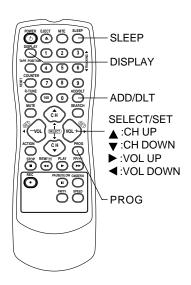


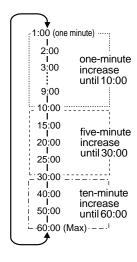
☐ The clock is set to the correct time.



Note

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.





Note

 While timer function is in progress, you can change channels on the unit with CH ▲▼ while "CANCEL/SET" screen is not displayed.

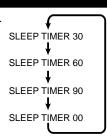
Sleep Timer

This unit can be set for auto power off.

Press SLEEP repeatedly to set SLEEP TIMER.

 Pressing DISPLAY with sleep timer set displays remaining time.

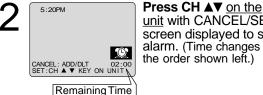
Press SLEEP repeatedly until "SLEEP TIMER 00" appears to cancel.



Instant Alarm

You can set a timer alarm up to 60 min. Useful when you are cooking, etc.

Press TIMER/FM on the unit to display the instant alarm CANCEL/SET screen.



unit with CANCEL/SET screen displayed to set alarm. (Time changes in the order shown left.)

· Pressing TIMER/FM repeatedly on the unit will change display as follows.



To cancel, press TIMER/FM then press ADD/DLT on the remote while CANCEL/SET screen is displayed.

To increase timer in progress, repeat step 2. Time will be rounded up to next 1, 5, or 10 minute interval. (See chart left.)

<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.

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

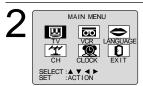
Closed Caption System

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.

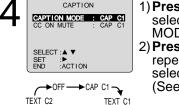
Closed Caption Mode Feature

Press ACTION to display MAIN MENU.



- 1) Press ▲▼◀ ► to select "TV."
- Press ACTION to display SET UP TV screen.
- SET UP TV

 LOCK
 CAPTION
 INPUT SELECT
 VIDEO ADJUST
 FM ANTENNA
 SELECT: Y
 SET
 END : ACTION
- 1) **Press ▲▼** to select "CAPTION".
- Press ► to display CAPTION screen.



- CAP C2 ◀

- 1) Press ▲▼ to select CAPTION MODE.
- 2) Press ► repeatedly to select mode. (See left.)

5 Press ACTION three times to return to the normal screen.

Closed Caption Mode Selections

Caption Mode: CAP C1 or C2 A narration of selected TV programs is displayed. Check TV program listings for CC(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.

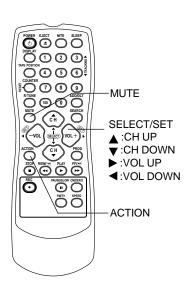
NOTE:

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.

Recording and Playing Back a Closed Caption/Text Program

Record: Record normally.

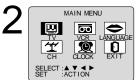
Closed Caption Text signal, if present, is recorded automatically. **Playback:** Start playback. Do above steps to select desired caption mode.



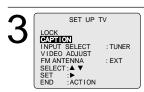
Caption On Mute Feature

Closed Caption narration, if available, is displayed when MUTE button is pressed for silence.

Press ACTION to display MAIN MENU.



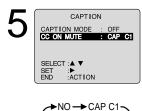
- 1) **Press ▲▼** ► to select "TV."
- 2) **Press ACTION** to display SET UP TV screen.



- 1) Press ▲▼ to select "CAPTION".
- 2) **Press** ► to display CAPTION screen.



- 1) Press ▲▼ to select CAPTION MODE.
- 2) Press ► repeatedly to select "OFF."



CAP C2◀

- 1) **Press** ▲▼ to select CC ON MUTE.
- 2) **Press** ▶ repeatedly to select desired mode.
- Each press of ▶ will change the display as shown left.
- The caption may be broadcast over CAP C1 or C2.
- Press ACTION three times to return to the normal screen.
- Press MUTE to mute the sound and display closed captioning.
 To cancel, press MUTE again.

FM Radio

FM Radio is ...

This unit has an FM radio with built-in antenna, 9 station preset, and a band range of 87.5 ~ 108.1 MHz. You can even set the On-Timer (page 16) to wake up to your favorite radio station.

FM Radio Setup

Press FM/TV on the remote or press TIMER/FM twice on the unit to display FM radio mode.

2 12:00PM FM 1 87. 5MHz

Press a number key (1~9) to select the FM number.

3

12:00PM

FM 1 87.7MHz

MEMORY:PUSH ADD/DLT KEY

12:00PM

FM 1 87.7MHz

MEMORIZED

- 1) Press CH ▲▼ to select the desired radio station. (Each press changes frequency 200 KHz.)
- 2) Press ADD/ DLT to set the radio station.

Hold down CH ▲
or ▼ for a few
seconds, then
release to quickly
scan for FM
stations in your
area.

 To cancel, press CH ▲ or ▼ while in search mode.

To Make Corrections,

select station with a number 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).

Press ACTION to display MAIN MENU.



- Press ▲▼◀▶
 to select "TV."
 Press ACTION
 to display SET
 UP TV screen.
- SET UP TV

 LOCK
 CAPTION

 VIDEO ADJUST

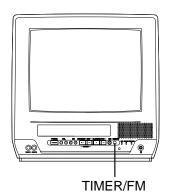
 FM ANTENNA

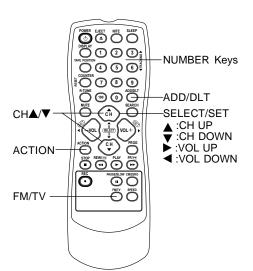
 SELECT: A

 SET: B

 END: ACTION
 - For cable TV users => "INT"
 - For antenna users => "EXT"
- 1) **Press ▲▼** to select FM ANTENNA.
- 2) Press ► to select "INT (INTERNAL)" or "EXT (EXTERNAL)" whichever sounds the best.

A Press ACTION twice to end setup.





Using FM Radio

Press FM/TV on the remote or press TIMER/FM twice on the unit to display FM radio mode.



To cancel, press FM/TV on the remote or TIMER/FM twice on the unit.

Notes

- 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.
- Once stations are set, the selected station and current time are displayed when FM Radio mode is entered. To remove time, press DISPLAY. If DISPLAY is pressed again, the unit status screen appears.

Timer Recording

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

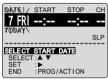
Press PROG to display SET PROGRAM screen.

2



- Press ▲▼ to select TIMER PROGRAMMING.
- 2) Press ➤ to display screen.
- If a program is already in memory, press ▲▼, and
 to select an unused program number.

3



Press ▲▼ to select and ▶ or ◀ to set the recording DATE.

- 1~31 = One time
- DAILY = MON~FRI
- WEEKLY SUN~SAT
 Same time once a week

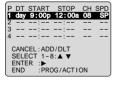
 Example
 7
 SELECT ▲ / ▼ Selection Order
 DAILY

 WEEKLY WEEKLY (MON)
 WEEKLY (SAT)

Repeat step 3 to set:

- start time, stop time
- · Channel (or LINE for outside source)
- Speed (SP, LP, SLP)

4



Press PROG (or **ACTION**) to end the program.

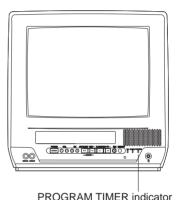
To Enter More Programs, press ▲▼ to select and ► to set a blank program number, and then repeat step 3.

5 Press PROG twice (or ACTION) to exit this mode.

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

Ready Check List

- ☐ Your unit is plugged in.☐ The clock is set to correct time.
- ☐ The tape is long enough.
- ☐ The record tab is in place.



_Timer Recording Using _ unit Buttons

You can set a Timer Recording using ACTION key on the unit. (See page 11.)

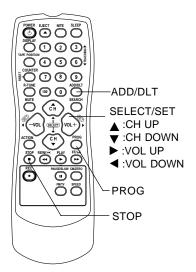


- 1 Press STOP/EJECT and REW together without a tape inserted to display MAIN MENU.
- ② Press ▲▼ + to select "VCR" and STOP/EJECT and REW together to display SET UP VCR screen.
- Press ▲▼ to select "TIMER PROGRAM" and + to display the TIMER PROGRAM screen.
- 4 Repeat main steps 3 ~ 5.

Cancel a Timer Recording: (Recording is 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.



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

Repeat steps 1 and 2 on page 22.

P DT START STOP CH SPD
1 day 9:00p12:00a 08 SP
2 8 10:00a12:00p125 SP
3 10 8:00p 9:00p 10 SP
4 SU 9:00p10:00p L LP

CANCEL:ADDUT
SELECT 1-8:▲▼
ENTER:
END ::PROG/ACTION

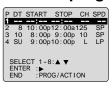
Press ▲ ▼ to select the desired program.

7 To Replace program...



- Press ► to display.
- Press ▲▼ to select and press ◀ or ► to set new program contents.
- 3) Press PROG (or ACTION).

To Clear program...



Press ADD/DLT.

4 Press PROG twice (or ACTION) to exit this mode.

Notes

- 2 minutes before Timer recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and/ or the PROG TIMER Indicator flashes. Be sure a cassette with record tab is loaded and the unit is in Stop mode.
- If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a Timer Recording comes up during a normal recording or One Touch Recording (page 12), the Timer Recording will not be performed.
- If there is a power interruption of more than one minute, the recording may not be performed or continued.
- If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.

Tape Operation

Search System is ...

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.

Index Search

Go directly to the desired recording.

INDEX SEARCH
ENTER INDEX NUMBER:1
USING 1-9 KEYS

FORWARD SEARCH:FF
REVERSE SEARCH:REW
NEXT:SEARCH
EXIT:STOP

Press SEARCH*
in Playback or
Stop mode to
display INDEX
SEARCH screen,
and then press
NUMBER Keys to
select the
recording number.

 To calculate number, see below.

Press FF or REW to start search.

2 INDEX SEARCH

FORWARD SEARCH:FF
REVERSE SEARCH:REW

Play begins at search end. To search forward or back 1 index, press FF or REW while screen left in displayed (10 sec.).

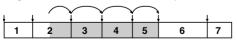
■ To calculate the Index Number Example 1:

To go to rec. 2 from rec. 4, enter 3 and press REW.



Example 2:

To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE:

† indicates start points of each recording.

Notes

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

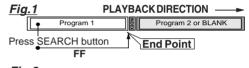
Program End Search

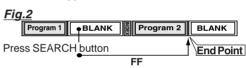
Locates end point of recording for continuity.

Press SEARCH twice in Playback or Stop mode to display PROGRAM END SEARCH screen

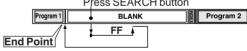


Example of **Program End Search** operation.



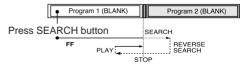


<u>Fig.3</u> If search exceeds a few seconds in BLANK area. Press SEARCH button



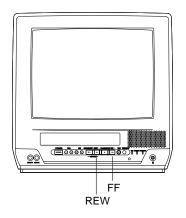
Upon locating end point...

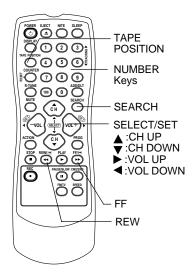
The unit searches slightly past end point, reverse searches, and plays the last few seconds of the program, then stops.



Notes

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





Auto Operation Functions

■ Auto Shut Off

No broadcast signal in TV (Only when Weak Signal Display is set to OFF), blank tape is Played for 5 minutes

- => Power turns off
- This feature is canceled if any button is pressed during above mode.

■ Auto Playback

Insert a tape in Power off mode => Power turns on

- Playback begins if tape has no record tab.
- Auto Rewind

Tape reaches its end => Rewind => Stop

■ Playback Auto Eject (Repeat Play is "OFF")
Tape with no record tab reaches its end
Rewind => Stop => Eject

Tape Position Display

To find out present tape position and amount of tape remaining.

Tape position is displayed for VHS-C Cassettes type, tapes under 30 minutes, and some other tapes, but the position is not correct.

Press TAPE POSITION to detect current tape position.



R 120 MIN

- "DETECTING TAPE POSITION" is displayed only when a cassette is first inserted and it takes several seconds for correct tape position to appear.
- The present tape position indication and amount of tape remaining (according to tape speed) is displayed.
- Tape remaining time display may not be precise.

Press TAPE POSITION (or wait 5 seconds) to return to the normal screen.

Note

 This function cannot display exact amount of tape remaining for tapes 30 minutes or less, or for tapes over 120 minutes in length.

Tape Operation (continued)

Zero Search

To quickly return to a specific tape counter location.

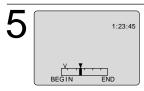
Press DISPLAY during playback to display the Counter.

2 0:00:00
BEGIN END

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

Continue playback, rewind, or fast forward.

4 Press STOP.



Press CM/ZERO in stop mode to start ZERO SEARCH.

▼: Present position mark
 ∨: Zero position mark

 Unit goes into FF or REW mode and stops at the last point the Counter was set to 0:00:00.

Note

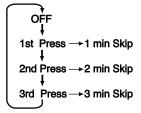
 If a blank portion exists on the tape, and depending on the position of the \(\nabla \) mark, the \(\nabla \) mark display may be out of position.

Commercial Skip

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

Press CM/ZERO repeatedly to select skip time in Play mode.

· No indication appears.



Repeat Play

Set to see a recording over and over.

Press ACTION to display MAIN MENU.

MAIN MENU

VCR LANGUAGE

TV VCR LANGUAGE

CHOCK EXIT

SELECT: AT 1 1 N

- 1) Press ▲▼◀► to select "VCR."
- 2) Press ACTION to display SET UP VCR screen.

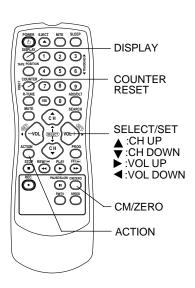


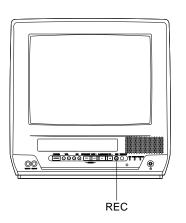
- 1) Press ▲▼ to select "REPEAT PLAY."
- 2) Press ➤ to set REPEAT PLAY "ON" or "OFF."
- 4 Press ACTION twice to end setup.

Notes

- Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.
- During playback, you may also press PLAY/ REPEAT repeatedly on the unit to select REPEAT "ON" or "OFF."

Special VCR Features





Weak Signal Display ON/OFF

When "ON" is selected, the picture is displayed even when a broadcast signal is weak or non-existent.

Press ACTION to display MAIN MENU.



- 1) Press ▲▼◀► to select "CH."
- 2) Press ACTION to display SET UP CHANNEL screen.



- 1) Press ▲▼ to select WEAK SIGNAL DISPLAY.
- 2) **Press** ► to set "ON" or "OFF."

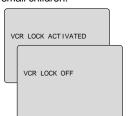
Notes

- "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.

Press ACTION twice to return to the normal screen.

VCR Lock

All operations are prohibited except Timer recording and tape eject. "Auto power on" is not prohibited when VCR lock is activated. Useful for families with small children.



In stop mode, **hold down REC** on the unit
without a cassette
inserted for 7 seconds
to turn "ON." Please
ignore NO CASSETTE
warning.

Repeat above with or without cassette to turn "OFF."

- VCR Lock is canceled automatically after about 24 hours if clock is set.
- "Auto Power On" is not prohibited when VCR Lock is activated.

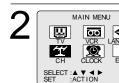
Special VCR Features (continued)

Channel Caption is ...

Station names, e.g. ABC, TNN, etc. are set so they will appear when a channel is selected. Choose 24 preset names.

Channel Caption

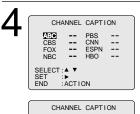
Press ACTION to display MAIN MENU.



- 1) Press ▲▼◀► to select "CH."
- 2) Press ACTION to display SET UP CHANNEL screen.



- Press ▲▼ to select CHANNEL CAPTION.
- 2) Press ➤ to display screen.



TNT 42 CBC

LIPN

WB

- 1) Press ▲▼ to select a station.
- 2) Press ► to move cursor to the right.
- select channel number.

 4) Press

 4 to set

3) Press ▲▼ to

- Repeat step 4 until the Caption List is complete.

To Make Corrections

CLEAR :ADD/DLT SELECT:▲ ▼

Press ▲▼, then ► to select channel number. Press ▲▼ to change, or ADD/DLT to delete.

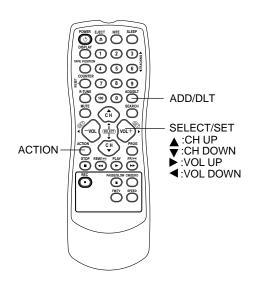
21 52

CTV

GLOB 128

35 TSN

5 Press ACTION four times to end setup.



V-Chip Control Feature

Process of V-Chip Control

Enter Code → Setup → Blocking

V-Chip Control Feature is...

This unit has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAMS Ratings.

Enter Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

Press ACTION to display MAIN MENU.

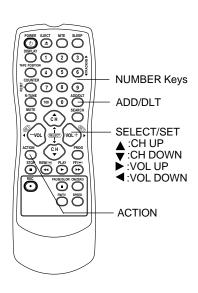
MAIN MENU တ SELECT: A ▼ ◀ ♪ SET :ACTION

- 1) **Press ▲▼◀ ▶** to select "TV."
- 2) Press ACTION to display SET UP TV screen.
- SET UP TV CAPTION INPUT SELECT VIDEO ADJUST : TUNER SELECT · ▲ ▼ :ACTION
- 1) **Press ▲** ▼ to select LOCK.
- 2) Press ▶ to display screen.
- IOCK ENTER 4-DIGIT CODE **5---**ENTER :0-9 END :ACTION
- 1) Press number keys to enter your secret code.
- 2) Enter same code again for confirmation.
- To Make Corrections Press ◀ repeatedly to move the cursor. Press number keys to make the correction.
- Step 2) not necessary when changing rating or secret code.
- Take care that you are not observed entering the secret code.



Press ► to display US Ratings menu (see page 30).

Or **Press ACTION** three times to exit.



Changing your secret code

 You will need your current code. Do steps 1 ~ 4. In step 5, press ADD/DLT to clear current code. Repeat steps 4 and 5 to enter new code.

Notes

- DO NOT forget your secret code.
- · Once ratings are set, restricted tapes or programs cannot be accessed unless the secret code is entered.

V-Chip Control Feature (continued)

If LOCK menu is not displayed, do "Enter Secret Code" steps on page 29.

Setup US MOVIES Ratings



- 1) Press ▲▼ to select US MOVIES.
- 2) **Press** ▶ to set "ON" or "OFF."
- "ON" => V-Chip Control is activated. ■ "OFF" => V-Chip Control is deactivated.

Note

 "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.



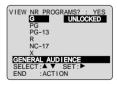
- 1) Press ▲▼ to select **CHANGE** SETTINGS.
- Press ► to display screen.



- 1) Press ▲▼ to select VIEW NR PROGRAMS?.
- 2) Press ▶ to set "YES" or "NO."

NR (Not Rated) PROGRAMS

Some movies, such as old movies or foreign movies usually have no ratings.



Press **▲**▼ to select and ▶ to set ratings to be blocked. (See ratings chart next page.)

Press ACTION to redisplay LOCK menu and continue with US TV PROGRAMS Ratings Setup (this

Or, press ACTION four times to exit.

Process of V-Chip Control Feature

Enter Code → Setup → Blocking

Setup US TV PROGRAMS Ratings



- 1) Press ▲▼ to select US TV PROGRAMS.
- 2) Press ▶ to set "ON" or "OFF."
- "ON" => V-Chip Control is activated.
- "OFF" => V-Chip Control is deactivated.

Note

 "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.



- 1) Press ▲▼ to select CHANGE SETTINGS.
- 2) **Press ▶** to display screen.



- 1) Press ▲▼ to select VIEW NR PROGRAMS?.
- Press ► to set "YES" or "NO."

NR (Not Rated) PROGRAMS

Some TV shows, such as news, sports, weather, bulletins, emergency information usually have no ratings.

PROGRAMS? : YES UNLOCKED D FOR ALL CHILDREN

Note

You may select from standard TV ratings (chart 1), or customize to a specific content rating (chart 2).

Press **▲**▼ to select and ▶ to set ratings to be blocked. (See ratings charts next page.)

· Ratingshighlighted in Green will be blocked. Ratings in white letters will not be blocked.

Press ACTION four times to exit this mode.

Process of V-Chip Control Feature

Enter Code → Setup → Blocking

Blocking Message

<When V-Chip Control is activated>



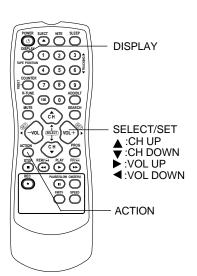
 If a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

To View a Blocked Program / Movie [Temporarily Deactivate V-Chip Control] Enter your secret code (ACCESS CODE) in the Blocking Message screen.

 V-Chip Control is reactivated when power is turned off or power failure occurs.

[Deactivate V-Chip Control]

Enter your secret code (steps 1-4 page 29). Then, set US MOVIES and/or US TV PROGRAMS to "OFF" using ▲▼ and ▶ keys. (Ratings set on page 30 is retained and will be in effect when V-Chip Control is activated again.)



US MOVIES RATINGS

G GENERAL AUDIENCE: All ages admitted.

PARENTAL GUIDANCE: PG

Some material may not be suitable for children.

PG-13 PARENTS CAUTIONED:

> Some material may be inappropriate for children under 13.

RESTRICTED: R

> Children under 17 must be accompanied by a parent or adult.

NC-17 OVER AGE 17 ONLY: No one 17 and under admitted.

ADULTS ONLY: Х

US TV PROGRAMS RATINGS: Chart 1

TV-Y FOR ALL CHILDREN: Content specifically geared to young viewers ages 2-6. TV-Y7

FOR AGE 7 AND OLDER:

May contain mild physical or comedic violence which may frighten children under 7.

TV-G **GENERAL AUDIENCE:**

Contains little or no violence, strong language, or sexual dialogue or situations.

TV-PG PARENTAL GUIDANCE:

May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.

TV-14 PARENTS CAUTIONED:

May contain sophisticated themes. sexual situations, strong language, and more intense violence.

Τ٧-ΜΔ **MATURE AUDIENCE:**

> May contain mature themes, profane language, graphic violence, and sexual situations.

US TV PROGRAMS RATINGS: Chart 2

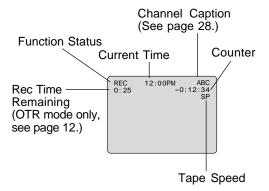
FV	Fantasy Violence
V	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

On-Screen Display (OSD)

VCR Status & Clock Display

Press DISPLAY

to display or remove the overlay.



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 set to "OFF" (see page 27), the screen will turn solid blue.

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 page 28.)



Warning and Instruction Displays

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

OSD	Caution	Page
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	8 - 11
CHECK CASSETTE RECORD TAB	If you press REC, and a cassette is inserted with no record tab	3, 12
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP during a Timer Recording	23
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC without a cassette inserted	12
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	22, 23
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	4
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the unit is in VCR Lock mode	27

Before Requesting Service

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

Correction
Completely insert Power Plug into an AC outlet. Set POWER button to ON.
Correction
Make sure your antenna system (TV or CABLE), is correctly set. (P. 8) Completely insert Power Plug into an AC outlet. Set POWER button to ON.
Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P. 15)
Adjust VOLUME control. (P. 14) Adjust SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 15) Adjust TINT and COLOR controls in the SET UP TV menu. (P. 15) Install a directional antenna.
Make sure the selected channel is in unit's memory. (P. 10, 11) Only the channel being recorded can be viewed on this unit.
Correction
Make sure your antenna system (TV or CABLE), is correctly set. (P. 8) Make sure cassette record tab is intact. (P.3)
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 times correctly. (P. 22-23)
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. Adjust TRACKING control in either direction. (P. 4) Try Head Cleaning. (P. 4)
Make sure VCR LOCK is set to off. (P. 27) Make sure unit is not in a Timer Record operation.
Correction
Aim remote at remote sensor on unit (P. 7) so that signal is unobstructed. Inspect the remote batteries. (P. 3) Make sure VCR LOCK is set to off. (P. 27) Exposing unit remote sensor to direct fluorescent or outdoor light
may cause signal interference. • Check remote batteries.
Correction
Insert the cassette window side up; record tab facing you. Completely insert Power Plug into an AC outlet.
Try ejecting or inserting the tape again after turning POWER off, then back on. Make sure cassette record tab is intact. (P. 3)
To enable Quick Play mechanism, the VCR cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Revind Search mode. Male and COR LOCK Revind Search mode.

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 1-800-211-PANA(7262).

To locate an authorized servicenter call toll free 1-800-211-PANA(7262)

• Make sure VCR LOCK is set to off. (P. 27)

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

VCR cannot be controlled...

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/Quasar Video Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product	Parts	Labor	Service	Contact Number
Camcorder	One (1) Year (except CCD Image Sensor) CCD Image Sensor - 6 (Six) Months	Ninety (90) Days Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR Deck, A/V Mixer	One (1) Year	Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD, TV/DVD/VCR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	Carry-In: 21" CRT and Smaller In-Home or Carry-In: 22" CRT and Larger	1-800-211-PANA(7262)
TV/HDR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	In-Home or Carry-In	1-888-843-9788
Rechargeable Batteries (in exchange for defective item)	Ten (10) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Tape (in exchange for defective item)	Five (5) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Memory Cards (in exchange for defective item)	Ninety (90) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product or arrange for in-home service, as applicable, during the warranty period.

If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is." A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In, Mail-in or In-Home Service

For Čarry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910. In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE." THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer, loss of media or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

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 exclusions 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 warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

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: consumerproducts@panasonic.com For hearing or speech impaired TTY users, TTY: 1-877-833-8855

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

Accessory Purchases:

Servicenter:

1-800-332-5368 (Customer Orders Only)
For hearing or speech impaired TTY users, TTY: 1-866-605-1277
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(Monday-Friday 6 am-5 pm; Saturday 6 am-10:30 am, PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory

> Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787)750-4300 Fax (787)768-2910

Spanish Quick Use Guide/Guía para rápida consulta

Connexiones/Configuracion Inicial

Conecte por favor todas las conexiones del cable o de la antena antes de turing potencia.

Conectando

Para Ant./Cable
Conecte Ant./Cable a la entrada de antena de la TV (VHF/UHF).

Para Sistema Digital de Satelite (DSS)/
Convertidor de cable
Conecte la salida del convertidor de cable la
"VHF/UHF" con el RF cable.

Realizando Configuracion Inicial

Tape el cable electrico de la unidad en el enchufe de pared de la CA. POWER de la prensa en el telecontrol o la unidad. La unidad se adelanta y comienzo auto del canal y del reloj.

CH AUTO SET PROCEEDING

Si usa convertidor de cable, enciendala y seleccione el Servicio Publico de Canales de Television (PBS) en su horario de uso o tiempo de su zona. Si utiliza receptor DSS este debe de estar apagado.

AUTO CLOCK SET
PROCEEDING

CANCEL: PRESS STOP KEY

2/ 6/2002 WED 12:00PM
DST:0N
SETTING: CH 10
AUTO CLOCK SET
COMPLETED

Selecciones se realizaran automaticamente cuando la configuracion termine, la pantalla siguiente aparecera.

AUTO CLOCK SET

PLEASE SET CLOCK BY PRESSING ACTION KEY

Si "AUTO CLOCK SET IS INCOMPLETE" aparece en pantalla, coloque el tiempo usando el procedimiento manual (MANUAL CLOCK SET), vealo enseguida.

Ajuste Manual del Reloj

Si el ajuste automático del reloj no se ha completado, ajuste el reloj manualmente de la siguiente manera:

- Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.
- Presione ▲▼ para seleccionar el mes y ▶ para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).
- Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

Ajustar de nuevo el reloj

Presione ACTION para exhiba el menú.

MENU PRINCIPAL

TV VCR
CANAL RECU SALIR

ELEGIR: AV 1 1

FIJAR: ACTION

Presione

▲▼◀▶ para
seleccionar
"RELOJ".
Presione
ACTION.

FIJAR RELOJ

FIJACION AUTOMATICA

MANUAL

AJUSTE ZONA HORA: 0

ELEGIR: A V

FIJAR: * ITAMINAR: ACTION

Presione

▲▼ para
seleccionar
"MANUAL"
y luego
presione ▶.

Presione

▲▼ y ◀▶
para
seleccionar
y ajustar la
hora y la
fecha.

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

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 EJECT en el control remoto o 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/SLOW 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 →

Grabación con temporizador

Exhiba FIJAR PROGRAMACION. Presione PROG.

FIJAR PROGRAMACION

IEMPONIPADON

ENCENDIDO AUTOMATICO

ELEGIR: A V

FIJAR: PROG

Exhiba TEMPORIZADOR. 1) Presione ▲▼

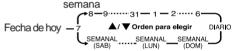
- para seleccionar.
 2) Presione ▶ para
- exhibir.

 Si ya existe un programa en la memoria, presione ▲▼ y ▶ para seleccionar un número de programa sin usar.



Ajuste la fecha de grabación.

- Presione ▲▼ para seleccionar.
- 2) Presione ▶ o ◀ para ajustar.
- •1 31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
 SEMANAL = a la misma hora una vez a la



Repita el paso 3 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP)

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.

- 5 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.

NOTES

NOTES

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