

Panasonic

Combination VCR Operating Instructions Model No. PV-C2541



- Initial Setup and Connection Procedures are on pages 8 to 13.
- * SELF-DEMO Procedure is on page 4.



As an ENERGY STAR® Parkier, Malaushita Electric Corporation at America has determined that this product or product model meets the ENERGY STAR® guidelines for energy afficiency.



VCR Plus+, and PlusCode are registered trademarks of Gemstar Development Corporation.

The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

Please read these instructions carefully before attempting to connect, operate, or adjust this product. Please save this manual. Spanish Quick Use Guide is included.

(Gula para rápida consulta en español está incluida.)

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 walf outlets or extension cords is a
- Fraved 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 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

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 safequards.

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.

4 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



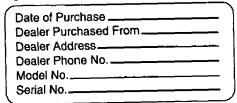
voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit. This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

This symbol warns the user that uninsulated

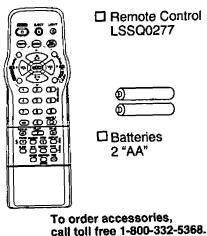
Betore Using

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.



Accessories

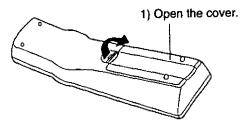


SELF-DEMO Mode

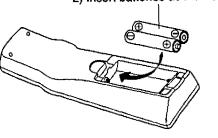
With Power ON, press PLAY/REPEAT on the unit for 7 seconds to deactivate the SELF-DEMO Mode.
Repeat this to display

demo screen.

Loading the Batteries



2) Insert batteries as marked.



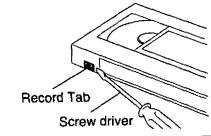
3) Close the cover.

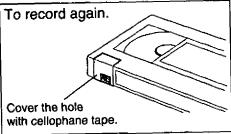
☐ Battery replacement caution

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

Prevent Accidental Tape Erasure

Break off the tab to protect.





lable of Contents Important Safeguards and Precautions / Safety Precautions 2

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before using	
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Location of Controls

Remote Control Buttons

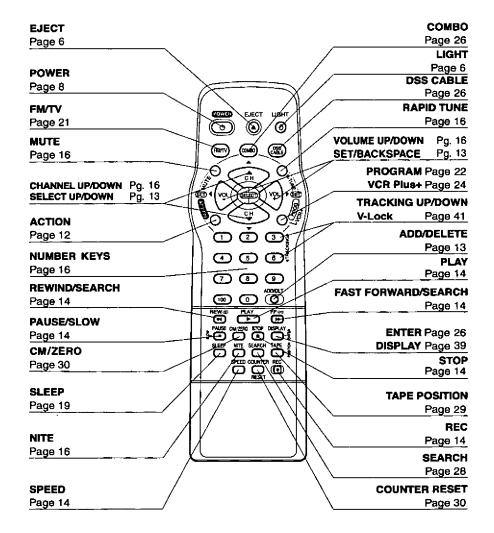
Light Tower™ Illuminated Remote Control

LIGHT button:

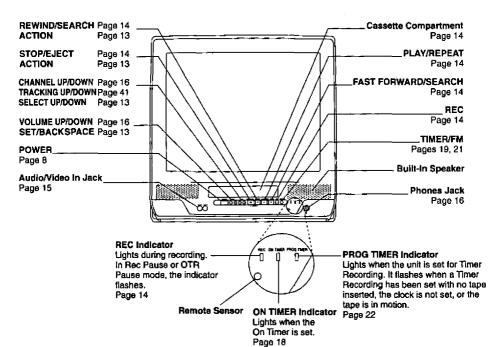
When LIGHT is pressed, available buttons in the selected mode light up and the selected mode button (COMBO or DSS CABLE) flashes for 5 seconds. If no button is pressed, light goes out in 5 seconds to conserve batteries. Also, by holding down a button, you can confirm the selected mode (mode button will flash) in the dark.

EJECT button:

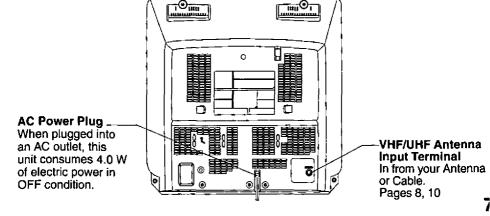
When EJECT is pressed, the tape is ejected from Cassette Compartment. If EJECT is pressed during recording, the unit will not respond to the command.



Front View of the unit and Indicators on the Front Panel



Rear View of the unit

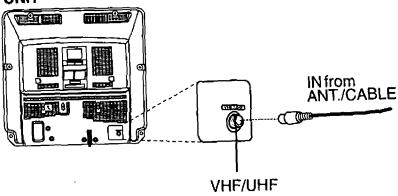


Initial Setup for ANT. / Cable Connection

How to Connect

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





How to do Initial Setup

Press COMBO for Combo mode.

- Press POWER* on the remote or unit.
- When the unit is turned on the first time, SELECT LANGUAGE screen appears.

SELECT LANGUAGE

PRESS CH A : English

OPRIMIR CH V : Español

APP. VOL + : Français

 If wrong language is set, complete "Reset all unit Memory Functions" steps page 9. Press CH ▲ to select English.
OR
Press CH ▼ to select Spanish
(Español).

OR
Press VOL + to select French
(Français).
CHANNEL/CLOCK AUTO SET

screen appears.

CHANNEL/CLOCK AUTO SET CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PRESS CH UP KEY

WARNING:

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

Press CH ▲ Key to start
CHANNEL / CLOCK AUTO SET
operation Settings are performed
automatically If the setup is
completed, the following screen is
displayed

*Important:

2/ 7/2001 WED 12 00PM DST ON SETTING CH 10 AUTO CLOCK SET COMPLETED END PRESS CH UP KEY

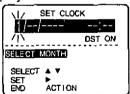
If AUTO CLOCK SET IS INCOMPLETE screen appears, set the clock using MANUAL CLOCK SET procedure as below



MANUAL CLOCK SET

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

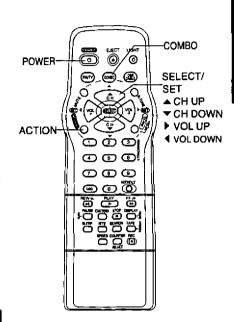
Press ACTION Key on the Remote to display SET CLOCK Menu screen



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)



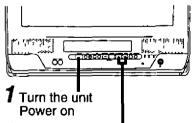
Press ACTION Key twice to start CLOCK and exit



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

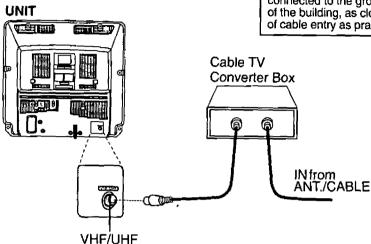


- 2 Press and hold both PLAY and FF on the unit for more than 5 seconds
 - The power will shut off
 - Please ignore "NO CASSETTE" warning
 - 3 Do "Initial Setup" on page 8

Initial Setup for DSS / Cable box Connection

How to Connect

Connect the OUT Jack on your cable box to the VHF/UHF terminal on unit with an RF cable. 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.



How to do Initial Setup

Press COMBO for Combo mode.

Press POWER* on the remote or unit.

When the unit is turned on the first time, SELECT



 Turn on your cable box and set it to PBS(Public Broadcast Station) channel in your time zone. If you use DSS receiver, it must be turned off.

WARNING:

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

Press CH ▲ to select English. OR

Press CH ▼ to select Spanish (Español).

OR

Press VOL + to select French (Français).

CHANNEL/CLOCK AUTO SET screen appears.

CHANNEL/CLOCK AUTO SET
CONNECT ANTENNA CABLE
AND IF YOU USE A CABLE
BOX, TUNE 1T TO YOUR
LOCAL PBS CH THEN...

PLEASE PRESS CH UP KEY

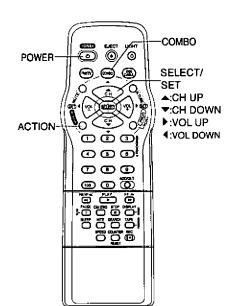
 If wrong language is set, complete "Reset all unit Memory Functions" steps page 9. 4

Press CH ▲ Key to start CHANNEL / CLOCK AUTO SET operation. Settings are performed automatically. If the setup is completed, the following screen is displayed.



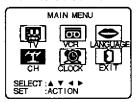
If AUTO CLOCK SET IS INCOMPLETE screen appears, set the clock using MANUAL CLOCK SET procedure on page 9.



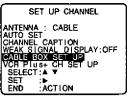


Cable Box Setup

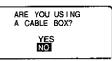
- 1) Press ACTION.
- 2) Press ▲▼◀▶ to select "CH."



3) Press ACTION.



 Press ▲▼ to select CABLE BOX SET UP and press ►.



- Press ▲▼ to select "YES" or "NO" and press ►.
- If you select...
- "YES" → Step 6).
- "NO" → Press ACTION three times to exit.

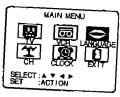
ENTER CABLE BOX OUTPUT CHANNEL

- Press ▲▼ to select the same channel as your cable box or DSS receiver output channel, then press ►.
- If necessary, refer to your cable box manual.
 If you are using Audio/Video lack connection
- If you are using Audio/Video jack connection for your cable box, select and set "VIDEO QUT" as the output channel.
- 7) Press ACTION three times to exit.

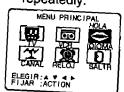
MAIN MENU σ SELECT :A T 4 P

Press ACTION* to display MAIN MENU.

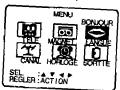
Language 1) Press ▲▼◀▶ to select language icon.



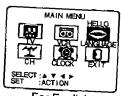
2) Press ACTION repeatedly.



For Spanish



For French

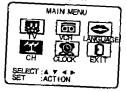


For English

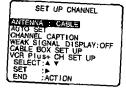
3) Press ▲▼◀▶ to select "EXIT." Press ACTION to exit

Channels

1) Press ▲▼◀▶ to select "CH."



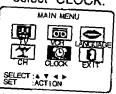
2) Press ACTION.



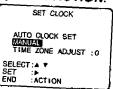
- Press ▲▼ to select "ANTENNA," then press ▶ to set your antenna system ("TV" or "CABLE").
- Press ▲▼ to select "AUTO SET," then press .
- After Channel Auto Set is finished, Clock Auto Set will be performed.

Clock

1) Press ▲▼◀▶ to select "CLOCK."



2) Press ACTION.



("TIME ZONE ADJUST" appears only when auto clock is set.)

- Press ▲▼ to select "MANUAL" or "AUTO CLOCK
- SET" and press ▶. · For Auto Clock Set. select "AUTO CLOCK



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

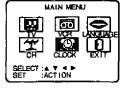
Time Zone Adjust

KENT KOKE LOJUK KIND OVEKKU. when pressed, press the COMBO b on the remote and try the button aga

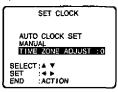


(Only when Auto Clock is set.)

 Press ▲▼◀▶ to select "CLOCK."



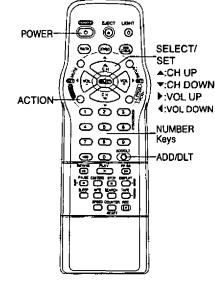
Press ACTION.



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



- 4) Press ACTION twice to exit.
- TIME ZONE ADJUST returns to "0" if clock is set manually.



ACTION key on the unit



On 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

On Remote



A: CH UP : CH DOWN

➤ : VOLUME UP

: VOLUME DOWN

Whenever the menu or program screen is displayed, CHANNEL UP/DOWN function as ▲▼ 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 OB ADDED

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

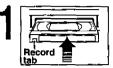
CHANNEL OB DELETED

Playpack allalge

Record On a lape

Ready Check List

All connections are made. Your unit is plugged in.



Insert a cassette.

 The unit power comes on automatically.

To prevent tape iam. remove loose or peeling labels from tapes.



Press PLAY.

- Playback begins if cassette has no record tab.
- Forward/Reverse scene search
 - → Press FF or REW
 - → Press again or 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.
- 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
- Eject tape → Press EJECT on the remote or STOP/EJECT on the unit

You can operate on the unit PLAY Insert a cassette. REC Press to stop and/or REC Indicator eject tape.

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 41). SP = Standard Play

LP = Long Play

SLP = Super Long Play

· Selected speed is displayed.

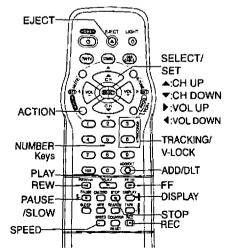
- Press REC to start recording.
- To edit out unwanted portions, press PAUSE/SLOW to pause and resume recordina.
 - You cannot view another channel during recording.
- Stop → Press STOP
- One Touch Recording (OTR)

Press REC repeatedly to set the recording length (30 min - 4 hours.) 1004-3004-2004-1:30

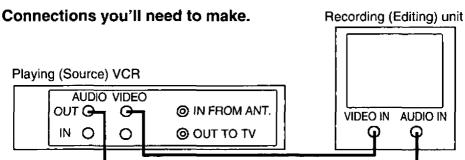
- The unit stops recording at a preset time.
- PROG TIMER indicator lights on the unit.

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.



Your Tapes (Dubbing) n a remote control outton oc when pressed, press the COMBO button on the remote and try the button again.



Playback (Source)

Recording (Editing) unit Insert blank tape





with record tab. Dubbing tapes protected

with Copy Guard will have

poor quality results. Select "LINE" mode.

Press REC, then

PAUSE/SLOW

Standby mode.

Press PLAY then PAUSE PAUSE at starting SLOW

11

PAUSE REC <u>}</u> [O

See "Selecting Input Mode" below.

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

PLAY

PLAY

Press PLAY to start dubbing.

point to put in

Standby mode.

<u>}</u>[||

STOP

Press PAUSE/SLOW to start dubbing.

(CABLE) (TV)

immediately to put in

Press STOP to stop dubbing.

Press STOP STOP to stop dubbing.

Selecting Input Mode

Press CH ▲▼. The display will change as follows. +1++2++3+-

Caution

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

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.

Press POWER* on the remote or unit.



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



Press VOL + or VOL - to adjust volume.

NIGHT (NITE) Mode

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



Press NITE to set NIGHT mode.

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

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

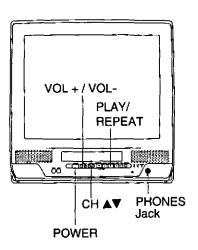
Press MUTE to instantly mute the sound. Press again to restore the previous sound level.

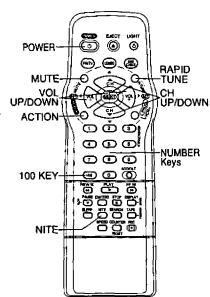
■ Phones

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

Ready Check List

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





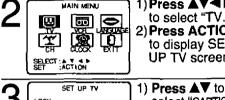
Closed Caption System

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."
- 2) Press ACTION to display SET UP TV screen.
- INPUT SELECT VIDEO AGJUST : TUNEA FM ANTENNA : EXT SELECT: A * ACTION END CAPTION
 - select "CAPTION". Press ► to display CAPTION screen.
- 1) Press ▲▼ to CAPTION MODE : CAP C1 CC ON MUTE : CAP C1 select CAPTION MODE. SELECT: A ▼ :► :ACTION →OFF ---- CAP C1 --TEXT C2 TEXT C1 CAP C2 -
 - 2) Press ► repeatedly to select mode. (See left.)
- **Press ACTION** three times to return to the normal screen.

Recording and Playing Back a Closed Caption/Text Program

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

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

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.

Caption On Mute Feature Closed Caption parration, if available, is displayed

when MUTE button is pressed for silence.

Press ACTION to display MAIN MENU.

MAIN MENU SELECT : A ▼ ◀ ▶ SET : ACTION

- 1) Press ▲▼◀▶ to select "TV." 2) Press ACTION to display SET
- SET UP TV LOCK CAPTION INPUT SELECT VIDEO ADJUST : TUNEA FM ANTENNA : EXT SELECT: ▲ ▼ SET ACTION
- 1) Press ▲▼ to select "CAPTION". Press ► to display CAPTION screen.

UP TV screen.

- CAPTION CAPTION MODE CC ON MUTE SELECT: A ▼ SET ACTION
- select CAPTION MODE. 2) Press ► repeatedly to select "OFF."

1) Press AV to

MUTE.

select CC ON

Press ▲▼ to

- CAPTION CAPTION MODE : OFF CC ON MUTE : CAP CI SELECT : 4 ♥ ACTION NO-CAP C1
 - Press repeatedly to select desired mode. Each press of will CAP C2
 - 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.

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.

Press PROG/VCR+* button to display SET PROGRAM screen.

- SET PROGRAM

 TIMER PROGRAMMONG
 VCR Plus+ PROGRAMMING
 ONTHINES

 SELECT: A *
 SET :*
 BND : PROG
- Press ▲▼ to select "ON TIMER."
- Press ► to display ON TIMER screen.

Press ▲▼ to select

desired settings.

- 3 SELECT: A Y
- SELECT: A V
 SELECT: A V
 SET : PROC
- selection order

 CH02—CH03·····CH125—

 CH01 PLA

 FM9—FM8·····FM1—
- 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 page 21 for instructions on how to preset FM stations.
- ON TIMER
 SOUTH CHOS

 ALAPHA'ON ABC

 SELECTIFALARM
 CANCEL: ADD/DLT
 SELECT: A V
 SET: 4 4 F
 END: PROG

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.

5 Press PROG/VCR+ button to set ON TIMER.

- "ON TIMER SET" is displayed.
 ON TIMER Indicator lights on the
- ON TIMER Indicator lights on the unit.

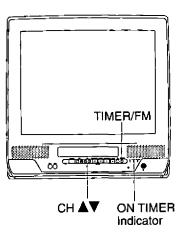
To Cancel ON-TIMER set,

Repeat steps 1 and 2. Then, press ADD/DLT to clear the time in step 3. Now, press PROG/VCR+ button to end.

"ON TIMER END" briefly appears on-screen.

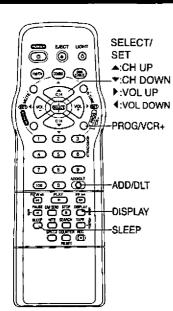


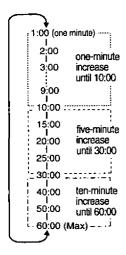
☐ The clock is set to correct time.



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.

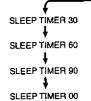
SLEEP TIMER

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.

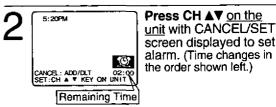
Press SLEEP repeatedly until "SLEEP TIMER 00" appears to cancel.



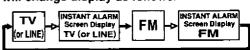
INSTANT ALARM

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.



 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>

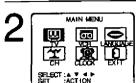
- If current time remaining is 12:15, countdown will restart from 15:00.
- If current time remaining is 9:15, countdown will restart from 10:00.

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.

Picture Aujustinent

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.
- Press ► to display screen.

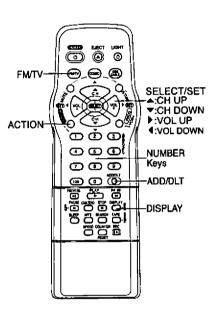


- 1) Press ▲▼ to select an adjustment item. (See below right.)
- 2) **Press ◀▶** to adjust.



To Reset Picture
Controls.
Press ▲▼ and ► to
select and set
"NORMAL."
All controls return to
their factory settings.

Press ACTION three times to exit.



Picture Adjustment

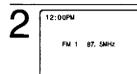
- COLOR Control Adjust cotor intensity.
- TINT Control Adjust for natural flesh tones.
- BRIGHTNESS Control Adjust picture brightness.
- PICTURE Control Adjust picture intensity by adjusting both contrast and color level in the proper balance.
- SHARPNESS Control Adjust picture sharpness.

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 18) 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.



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

1) Press CH ▲▼ 12:00PM FM 1 87.7MH≥ MEMORY: PUSH ADD/DLT KEY 12:00PM FM 1 87, 7MHz MEMÓRIZED

To Make Corrections.

To exit FM mode, press

FM/TV on the remote or TIMER/FM twice on the unit.

select station with a number key, then do step

3 again.

desired radio station. (Each press changes frequency 200 KHz.) 2) Press ADD/DLT to set the radio station.

to select the

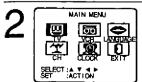
Hold down CH ▲ or ▼ for a few seconds. then release to quickly scan for FM stations in your area.

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

FM ANTENNA Setup

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

Press ACTION to display MAIN MENU.



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

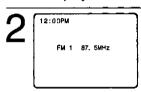
- SET UP TV LOCK CAPTION VIDEO ADJUST FM ANTENNA SELECT: ▲ ¥ ACTION
 - For cable TV users → "INT"
 - For antenna users → "EXT"
- 1) Press ▲▼ to select FM ANTENNA. Press ➤ to
- select "INT (INTERNAL)" or EXT

(EXTERNAL)" whichever sounds the best.

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.



Press a number kev (1~9) to select a preset FM number (see steps 2 and 3 on this page).

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



TIMER/FM

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/VCR+, 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

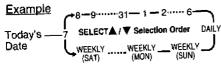
You can set up to 8 programs to be recorded while you are away.

Press PROG/VCR+* button to display SET PROGRAM screen.

- SET PROGRAMMANG
 VOR Plus+ PROGRAMMANG
 ONTIMER
 SELECT: A V
 SET :>
 BNC : PPOG
- 1) Press ▲▼ to select ☐ The record tab is in place. TIMER PROGRAMMING.
- Press ➤ to display screen.
- If a program is already in memory, press ▲▼, and to select an unused program number.

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





Ready Check List

All connections are made.

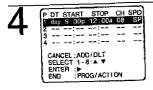
The tape is long enough.

☐ Your unit is plugged in.☐ The clock is set to correct time.

PROG TIMER Indicator

Repeat step 3 to set:

- · start time, stop time
- Channel (or LINE for outside source)
- Category [N/A (not applicable), SPORTS, MOVIE, COMEDY, MUSIC, DRAMA]
- . Speed (SP, LP, SLP)



Press PROG/VCR+ button (or ACTION) to end the program.

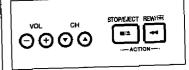
To Enter More Programs
Press ▲▼ to select and
► to set a blank program
number, and then repeat
step 3.

Press PROG/VCR+ button 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.

Timer Recording Using unit Buttons

You can set a Timer Recording using ACTION key on the unit. (See page 13.)

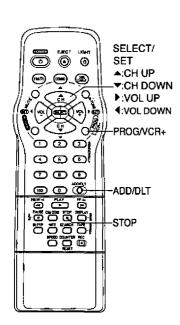


- Press STOP/EJECT and REW together without a tape inserted to display MAIN MENU.
- ② Press ▲▼ + to select "VCR" and STOP/EJECT and REW together to display SET UP VCR screen.
- ③ Press ▲▼ to select "TIMER PROGRAM" and + to display the TIMER PROGRAM screen.
- A Repeat main steps 3 ~ 5.

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 SPO 1 dsy 9:00p12:00g 08 SP 2 8 10:00a12:00p125 SP 3 10 8:00p 9:00p 10 SP 4 SU 9:00o10:00p L LP CANCEL:ADD/DLT SELECT 1-8:4 ▼ ENTER :> END :PPOG/ACTION

Press ▲▼ to select the desired program.

To Replace program...



- 1) **Press** ► to display.
- 2) Press ▲▼ to select and press ◀ or ► to set new program contents.
- Press PROG/VCR+ button (or ACTION).

To Clear program...

P DT START STOP CH SPD

2 8 10:00012:00a1255 SP
3 10 8:000 9:000 10 SP
4 SU 9:00010:000 L LP

SELECT 1-8:A ▼
ENTER :>
ENTER :>
END ::FROG/ACTION

Press ADD/DLT.

4 Press PROG/VCR+ button 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 14), 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.

VCR Plus+ System is...

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

Initial Setup...

In order to do Timer Programming using VCR Plus+, the Initial Setup (Clock and Channels) on page 8 to 11 must be done.

Channel Setup...

Since PlusCode numbers assigned to channels (found in TV Guide and selected newspapers) may differ from channels in your viewing area, you'll need to enter your local TV channel number for each corresponding Guide Channel. Once Channel Setup is done, the correct local channel will be selected when PlusCode numbers are used to program this unit.

Channel Setup Preparations To complete step 4 right, make a local channel list (see example below).

You will need the following:

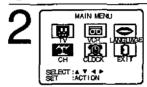
- A normal TV and/or Cable station line up and the channel numbers your receive them on.
- A list of Guide (VCR Plus+) channel numbers for stations you receive (see TV Guide and selected newspapers.)
- 1 Make a 3-column chart. In the left column, write all station names you receive.
- 2 In the middle column, write each station's Guide (VCR Plus+) number (see TV Guide, etc.).
- 3 In the right column, write the channel number your TV receives the station on.

EVANDLE ONLY

CEVAMLE ONLIS				
Broadcast or Cable Station Name	Assigned Guide (VCR Plus+) Channel no.	Channel no. · your TV receives the station on		
HBO	33	15		
Nickelodeon	38	20		
CBS	34	04		
FOX	11			

VCR Plus+ Channel Setup [For DSS / Cable Box connection only.] At first, do Channel Setup Preparations left.

Press ACTION* to display MAIN MENU.



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



- 1) Press ▲▼ to select VCR Plus+ CH SET UP.
- 2) Press ➤ to display screen.
- VCR Plus+ CH SET UP GUIDE CH RECEIVE CH VCR PIUS+ CH SET UP GUIDE CH RECEIVE CH SELECT :A V ACTION
- To Make Corrections Press ▲▼ and ► to move • Repeat step 4 until list to error, then ▲▼ to change, or ADD/DLT to erase number.

- 1) Press ▲▼ to scroll up/down the GUIDE CH column.
- Press ➤ to move cursor to right column.
- 3) Press ▲▼ to change the CABLE CH number.
- Press ■ to set VCR Plus+ channels.
- is complete.

Press ACTION three times to end the setup.

Ready Check List

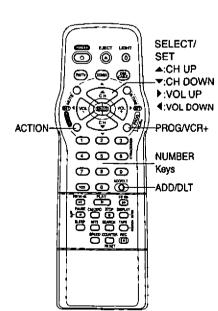
- The clock is set to correct time.
- □ VCR Plus+ System Setup is complete. (See page 24.)

Use normal Timer Recording steps if:

- a program PlusCode programming number is not listed.
- program, such as a sporting event, may run over scheduled stop time.
- See page 23 to: cancel a timer recording in progress.
- replace program contents.
- review or clear program contents once set.

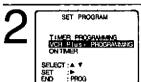
Notes

- You can obtain unlisted PlusCode programming numbers by calling 1-900-454-7587.
 - Call costs approximately \$0.95 per minute.
- Avoid overlapping program times.
- 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.
- Timer programs memory capacity is 8. To add more programs, please first clear other programs. (See page 23.)
- Make each entry within 5 minutes or the unit will leave this mode.
- Once local channels have been programmed, they will stay in memory. even in the case of a power failure.



VCR Plus+ System Programming

Press PROG/VCR+ button to display SET PROGRAM screen.

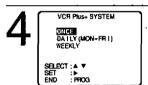


- Press ▲▼ to select VCR Plus+ PROGRAMMING.
- Press ► to display screen.
- VCR Plus+ SYSTEM ENTER PLUSCODE NUMBER USING 0-9 KEYS : PROG END
- 1) Press number keys to enter PlusCode programming number.
- 2) Press PROG/VCR+ button when finished.

To Make Corrections

Press

repeatedly to delete the PlusCode programming number.



- 1) Press ▲▼ to select and > to set Record Frequency.
- DATE START 28 TUE 12:00P 12:30P 69 CATEGORY: N/A SELECT CATEGORY SELECT: A ▼ : ◆ ► : PROG/ACTION
- 1) Press ▲▼ to select and ▶ to set Category and Record speed.

Selections:

- Categories → N/A (not applicable), SPORTS, MOVIE, COMEDY, MUSIC, or DRAMA
- Speed → SP, LP, or SLP

To Make Corrections

Press ◀▶ to move the cursor and ▲▼ to make the correction.



Press PROG/VCR+ button (or ACTION.) to end programming.

Press PROG/VCR+ button twice (or ACTION) to exit this mode.

PROG TIMER indicator lights on the unit.

Universal Remote Control is...

The Remote Control may be set up to control some basic DSS or Cable box functions.

The Universal Remote Control Setup

Find your DSS box or Cable box Brand Code Number from one of the charts on the next page.

2 Setup remote. Hold down DSS CABLE and press

number keys to enter code.

• For code 100 or greater, first proce 100

- For code 100 or greater, first press 100 key, then the remaining digits. E.g. for 102, press 100, then press 0, and then press 2.
- Gonfirm code entry.

 Press POWER* to turn selected unit ON or OFF.
 - See below for controllable functions in each mode.

Notes

- Please repeat the Universal Remote Control Setup after replacing remote control batteries.
- The remote control will not operate all DSS receivers or Cable Boxes made by the manufactures listed. If you get no results, your particular brand cannot be controlled.

Using the Universal Remote Control

Once the remote control has been properly set up, you can select COMBO, DSS or CABLE mode depending on which functions you wish to control. (See below.)

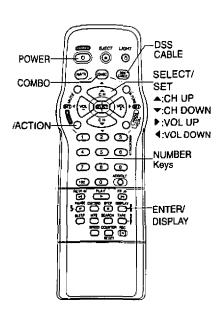
Press COMBO or DSS CABLE on the remote control to select the desired mode. (See below for buttons available in each mode.)

Set to COMBO:

All TV and VCR functions.

Set to DSS CABLE:

- Basic VCR functions, e.g. PLAY, REC, etc.
- CABLE/DSS functions, e.g. POWER, ENTER, number keys (except 100 key), CH UP/DOWN.



DSS Brand Code Nu	umbers	
Toshiba92	Magnavox/Uniden 295	Sony 98, 105
Hitachi/Hughes 93		1
Magnavox/Uniden 1 94		1
		1
Cable Box Brand Co	ode Numbers	
Archer 05, 06, 01, 44, 63,	Matsushita 16, 17, 97, 109	Sheritech27
91, 126	Movietime 32, 39, 42, 44,	Signal 26, 112
Cabletenna 01, 44, 63, 91,		
126	NEC 38, 40, 32	44, 52, 63, 126
Cableview 63, 44, 42, 30,	NOVAVISION 08, 09, 61,	Sprucer 16, 17, 97, 109
52, 04, 124, 126	50 07	Clandard Commonanta 22
Century 51, 44, 59, 75, 126	NSC 38, 40, 32	39, 42, 44, 126
Citizen 63, 44, 42, 30, 52,	Oak 46, 11, 129	Stargate 32, 40, 63, 44, 42,
04, 124, 126	Oak Sigma 46, 11, 129	30, 52, 04, 06, 124, 126
Curtis 08, 09, 61, 53, 87	Panasonic 16, 17, 97, 109	Sylvania19
Diamond . 01, 44, 63, 91, 126	Philips 07, 13, 20, 23, 24,	Téknika74
Drake 67		
Eagle 13, 22, 58, 62, 20,	50, 128, 129 Pioneer 05, 06	Teleview 32, 40, 42, 06
40, 26, 107	Pulsar 63, 44, 42, 30, 52,	Texscan 18, 19
Eastern 28, 130		
GC Brand 63, 44, 42, 30,	04, 124, 126 Quest05, 06	
52, 04,124, 126	Radio Shack 51, 44, 59, 75,	Uniden Satellite65
Gemini 04, 124	126	Unika 01, 44, 63, 91, 126
General Electric57,01	RCA 16, 17, 97, 109	Universal 42, 43, 44, 52, 63,
General Instruments 01,02,	Realistic 51, 44, 59, 75, 126	126
03, 04, 34,55, 83, 106, 65, 67,	Recoton 51, 44, 59, 75, 126	
68, 115, 117, 118	Regal 14, 15, 28, 41, 102,	Vid Tech64
Hamlin 14, 15, 28, 41, 102,	103, 104, 108, 130	Vidtek64
103,104, 108, 130	Regency 28, 130	Viewstar 13, 22, 58, 62, 20,
Hitachi 31	Rembrandt 01, 32, 39, 42,	40, 26, 107
Jasco 04, 124	44, 63, 126 Salora68	40, 26, 107 Zenith 07, 23, 50, 129
Jerrold 01, 02, 03, 04, 34,	Salora68	1
55, 83, 106, 65, 67, 68, 115,	Samsung 05, 32, 40, 42, 06	1
117, 118	Scientific Atlanta 08, 09, 61,	1
Macom 31	53, 87	1
Magnavox 26, 112	1	1
		<u> </u>

Notes

- In DSS or CABLE mode, it may be necessary to press ENTER after pressing number keys for channel selection.
- In DSS or CABLE mode, POWER, CH Up/Down, number Keys, ACTION, PROG/VCR+, DISPLAY, SEARCH, R-TUNE, FM/TV, or ADD/DLT are not available.
 Press COMBO to use these functions.
- Depending on your DSS receiver or Cable box brand, some of the functions listed may not be remote controllable.
- Some DSS receiver or Cable box brands require you to turn on the power manually.
- Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.

Tape Operation

Search System is ...

Each time a recording is made, an invisible index mark is placed on the tape.

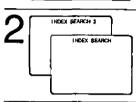
When timer recordings are made, program index and information are also included.

These index marks can be used to access or scan recordings.

Index Search

Go directly to the desired recording.





Press number keys to select the

recording number.

To calculate number, see below.



Press FF or REW to start search.

• Play begins at search

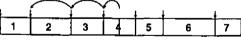
end. To search

forward or back 1 index, press FF or REW while screen left in displayed (10 seconds).

To calculate the Index Number

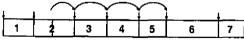
Example 1:

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.

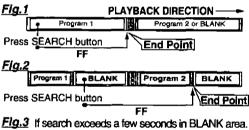
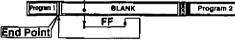


Fig.3 If search exceeds a few seconds in BLANK are Press SEARCH button

Program 1 Program 2



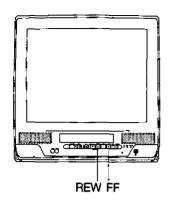
Upon locating end point...

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, 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.

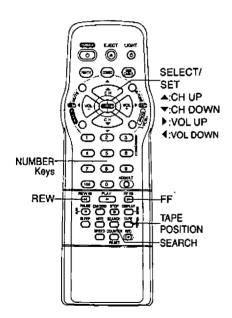
Auto Rewind

Tape reaches its end

→ Rewind, → Stop

■ Playback Auto Eject (Repeat Play Is "OFF")
Tape with no record tab reaches its end

→ Rewind, → Stop, → Eject

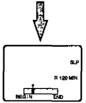


Tape Position Display

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

Tape position cannot be detected for C-Cassettes, tapes under 30 minutes, and some other tapes.

Press TAPE POSITION to detect current tape position.



ETECTING TAPE POSITION

- "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.
- 2 Press TAPE POSITION (or wait 5 seconds) to return to normal screen.

Note

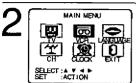
 This function cannot display exact amount of tape remaining for tapes 30 minutes or less, or for tapes over 120 minutes in length.

Tape Operation (continued)

Repeat Play

Set to see a recording over and over.

Press ACTION* to display MAIN MENU.



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

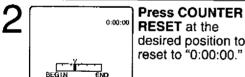


- 1) Press ▲▼ to select "REPEAT PLAY."
- Press ➤ to set REPEAT PLAY "ON" or "OFF."
- Press ACTION twice to end setup.

Zero Search

To quickly return to a specific tape counter location.

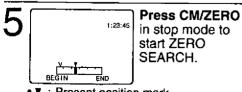
Press DISPLAY during playback to display the Counter.



desired position to reset to "0:00:00."

Continue playback, rewind, or fast forward.

Press STOP.

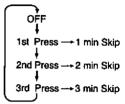


- ▼ : Present position mark Zero position mark
- Unit goes into FF or REW mode and stops at the last point the Counter was set to 0:00:00.

Commercial Skip

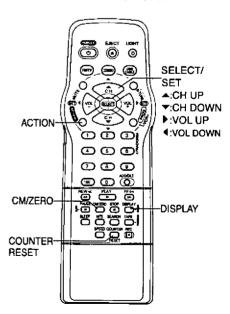
By pressing the CM/ZERO button in Playback mode you can skip over 1 to 3 minutes of recorded tape in just a few seconds.

- Press CM/ZERO repeatedly to select skip time in Playback mode.
 - No indication appears.



Repeat Play 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."



Zero Search Note

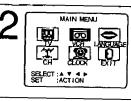
 If a blank portion exists on the tape, and depending on the position of the V mark, the v mark display may be out of position.

Special VCR Features

Remote Warning ON/OFF

When Universal Remote Control (page 26) is used, and this feature is set to "ON," a warning appears whenever an invalid key is pressed in DSS or Cable mode.

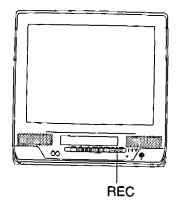
Press ACTION to display MAIN MENU.



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



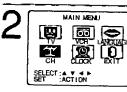
- 1) Press ▲▼ to select REMOTE WARNING.
- 2) Press ► to set "ON" or "OFF."
- "REMOTE WARNING : OFF"
- → Remote warning will not appear even if invalid key is pressed.
- Press ACTION twice to return to normal screen.



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."
- Press ACTION to display SET UP CHANNEL screen.
- SET UP CHANNEL

 ANTENNA: CABLE
 AUTO SET CAPTION

 CAPTION OF CAPTION

 CAPTION OF CAPTION

 CAPTION OF CAPTION

 CAPTION OF CAPTION

 CAPTION
 - Press ▲▼ to select WEAK SIGNAL DISPLAY.
 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. Useful for families with small children.



In stop mode, hold down REC on the unit without a cassette inserted for 7

Please ignore "NO CASSETTE" warning.
Repeat above with or without cassette to

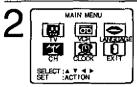
seconds to turn "ON."

tum "OFF."

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

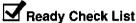
Preset Caption

Press ACTION* to display MAIN MENU.



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

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 (Preset Caption), or make up to 10 names of your own

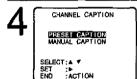


(Manual Caption).

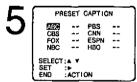
You need a list of stations and the channel numbers you receive them on.



- 1) Press ▲▼ to select CHANNEL CAPTION.
- Press ► to display screen.



- Press ▲▼ to select PRESET CAPTION.
- Press ► to display screen.
- To create your own captions, go to "Manual Caption" on page 33.



TNT

- Press ▲▼ to select a station. Press ► to move
- cursor to the right. Press ▲▼ to select
- channel number. 4) Press

 to set preset captions.
- Repeat step 5 until the Caption List is complete.

CBC CTV TSN 42 UPN WB 21 35 TSN 52 GLOB (FE) CLEAR : ADD/DLT KEY SELECT: 4 ▼ ACTION

PRESET CAPTION

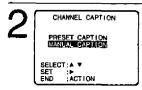
To Make Corrections

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

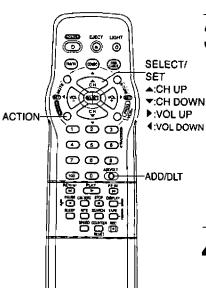
Press ACTION four times to end setup.

Manual Caption

d Do "Preset Caption" steps 1~3 (page 32).



- Press ▲▼ to select MANUAL CAPTION.
- 2) Press ► to display screen.



MANUAL CAPTION
CH NUMBER CAPTION
CM ---SELECT: 4 *
SET :P
END : ACTION

- Press ▲▼ to select CH NUMBER.
- Press ➤ to move cursor to the right.
- Channels already set and channels deleted from Channel Memory
- are not displayed.
 You can set a total of ten channel captions with up to four characters each.

MANUAL CAPTION
CH NUMBER CAPTION
Q2 CAPTION
CLEAR :ADD/DLT
SELECT:A V

ACTION

- Press ▲▼ to select and ► to enter your caption.
- Characters change in the following order.
- → A B C ······ Z BLANK – & + — — — 9 ······ 2 – 1 – 0 – / – ! ←

To Make Corrections

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

5 Press ACTION four times to end setup.

Special VCR Features (continued)

Time Stamp Feature

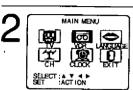
This unit writes program data (see example below) for about the first 10 seconds of every recording. The information is then displayed about 10 seconds after playback begins.

Ready Check List

The clock is set to correct time.

The record tab is in place.

Press ACTION*
to display MAIN MENU.



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



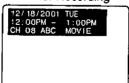
- 1) Press ▲▼ to select TIME STAMP.
- 2) Press ➤ to set "ON" or "OFF."
- When "OFF" is selected, the program data is written on the tape, but will not be displayed.
- Press ACTION twice to return to normal screen.

<Time Stamp Example >

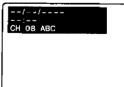
Normal/ One Touch Recording



Timer Recording



When Clock is not set...



Process of V-Chip Control Feature Enter Code

Setup

Blocking

> ര **(** 0

ACTION

(**3E**)

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***** 6 6 6

100000

6666

SELECT/

▲:CH UP

NUMBER

ADD/DLT

Keys

▼:CH DOWN ▶:VOL UP

4:VOL DOWN

SET

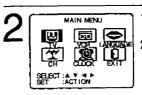
V-Chip Control Feature is... This unit has a built-in V-Chip Control which allows

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.



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



- Press ▲▼ to select LOCK.
- 2) Press ▶ to display screen.



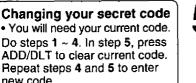
- 1) Press number keys to enter your secret code.
- 2) Enter same code again for confirmation.

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.



LOCK CONFIRM 4-DIGIT CODE RECOGNIZED CHANGE CODE: ADD/DLT CONTINUE: ACTION END

Press ► to display US Ratings menu (see page 36). Or

Press ACTION three times to exit.

Notes

new code.

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

Continued)

If LOCK menu is not displayed, do "Enter Secret Code" steps on page 35.

Setup US MOVIES Ratings

- LOCK US MOVIES CHANGE SETTINGS US TV PROGRAMS : 0 OFF CHANGE SETTINGS NEXT PAGE ACTION
 - Press ▲▼* to select US MOVIES.
 - Press ➤ to set "ON" or "OFF."
 - "ON" → V-Chip Control is activated. ■ "OFF" → V-Chip Control is deactivated.

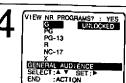
Note

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

- LOCK US MOVIES :(CHANGE SETTINGS US TV PROGRAMS :(:OFF CHANGE SETTINGS **NEXT PAGE** SELECT: A T ACTION ÉND
 - Press ▲▼ to select CHANGE SETTINGS. Press ➤ to display screen.
 - VIEW NR PROGRAMS? : YES UNLOCKED PG PG-13 NC-17 CONTAINS NO RATING END :ACTION
 - Press ▲▼ to select VIEW NR PROGRAMS?.
 - Press ► to set "YES" or "NO."

NR (Not Rated) PROGRAMS

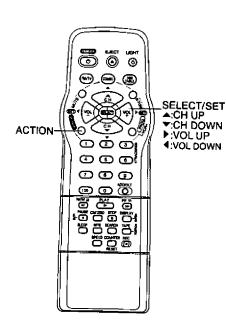
Some movies, such as old movies or foreign movies usually have no ratings.



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

Press ACTION to redisplay LOCK menu and continue with US TV PROGRAMS Ratings Setup (next page). Or. press ACTION four times to exit.

Process of V-Chip Control Feature Enter Code ⇔ Setup ⇔ Blocking



US MOVIES RATINGS

children.

G **GENERAL AUDIENCE:** All ages admitted. PG PARENTAL GUIDANCE: Some material may not be suitable for

PG-13 PARENTS CAUTIONED: Some material may be inappropriate

for children under 13. RESTRICTED: Children under 17 must be

ADULTS ONLY:

accompanied by a parent or adult. OVER AGE 17 ONLY: No one 17 and under admitted.

36

Chart 1

TV-Y FOR ALL CHILDREN: Content specifically geared to young

situations.

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

TV-14 PARENTS CAUTIONED: May contain sophisticated themes. sexual situations, strong language, and more intense violence. TV-MA MATURE AUDIENCE: May contain mature themes, profane language, graphic violence, and

US TV PROGRAMS RATINGS: Chart 2

sexual situations.

F۷ Fantasy Violence ٧ Violence S Sexual Situations L Adult Language D Sexually Suggestive Dialogue

If LOCK menu is not displayed, do "Enter Secret Code" steps on page 35.

Setup US TV PROGRAMS Ratings

LOCK US MOVIES :OFF CHANGE SETTINGS US TV PROGRAMS LOFF CHANGE SETTINGS NEXT PAGE SELECT: A V SET ACTION

• important.

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.

LOCK US MOVIES CHANGE SETTINGS
US TV PROGRAMS : OFF
CHANGE SETTINGS
NEXT PAGE SELECT: ▲ ▼ ACTION

 Press ▲▼ to select CHANGE SETTINGS.

2) Press ➤ to display screen.

VIEW NR PROGRAMS? : YES UNLOCKED 1) Press ▲▼ to select VIEW NR PROGRAMS?. Press ➤ to set "YES" or "NO."

ACTION NR (Not Rated) PROGRAMS

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

ROGRAMS? : YES UNLOCKED B CHULDA ACTION

You may select from standard TV ratings

(chart 1), or customize to

a specific content rating

Note

(chart 2.)

Press ▲▼ to select and ▶ to set ratings to be blocked. (See ratings charts Ratings highlighted

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

Press ACTION four times to exit this mode.

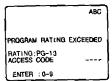
V-Chip Control Feature (continued)

Process of V-Chip Control Feature

Enter Code ⇒ Setup ⇒ Blocking

Blocking Message

<When V-Chip Control is activated>

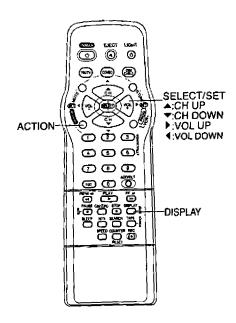


 If a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

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.

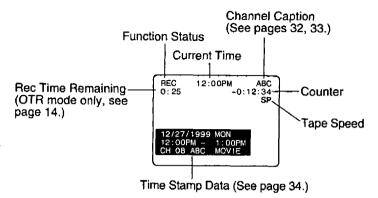
[Deactivate V-Chip Control]
Enter your secret code (steps 1-4 page 35).
Then, set US MOVIES and/or US TV
PROGRAMS to "OFF" using ▲▼* and ▶ keys.
(Ratings set on pages 36, 37 are retained and will be in effect when V-Chip Control is activated again.)



VCR Status & Clock Display

Press DISPLAY

to display or remove the overlay.

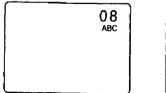


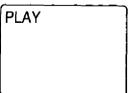
Blue Screen Display

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 31), 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 pages 32, 33.)





way to a missed of	
These displays will alert you to a missed of Page	
These display	
Caution als are found for	
us a active channels with MORY	
NO CH FOUND PLEASE CHECK OHANNEL MEMORY OHANNEL MEMORY CHANNEL MEMORY CHANNEL MEMORY CHANNEL MEMORY CHANNEL MEMORY OHANNEL MEMORY	
NO CH FOUND PLEASE CHECK NO CHANNEL MILITIAL NO CHECK A GAIN NO C	
NO CH FOUND PLEASE CHECK NO CH FOUND PLEASE CHECK NO CH FOUND PLEASE CHECK OHANNEL TO Set or review a Timer ANTENNA CABLE CONNECTION THEN If you attempt to set or review a Timer and the Clock OHANNEL TO Set or review a Timer OHANNEL TO SET OF THE	
NO CH FOUND PLEASE CHECK NO CH FOUND PLEASE CHECK NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN ANTENNA CABLE CONNECT	
n FASE SET CLE	
PLEASE SENTING PROGRAMMING PROGRAMMING • If you press REC, and with no record tab with no record tab STOP during a Timer	
OF CORD IN STOP GUILLE	
PROGRAMMING If you press stop during a Timer CHECK CASSETTE RECORD TAB If you press STOP during a Timer Paccording Paccording Paccording REW, or REC	
TO CANCEL TIMER REC HOLD DOWN TO CANCEL TIMER REC HOLD DOWN Recording TO CANCEL TIMER REC HOLD DOWN Recording * If you press PLAY, FF, REW, or REC * If	
NO CASSETTE PLEASE INSERT A CASSETTE • If you press POWER, or CABLE • If you press POWER, or	
ne necessary	
- control:	
REMOTE COMBO MODE TO DSS/CABLE MODE TO DSS/CABLE MODE USE COMBO : COMBO KEY USE COMBO : COMBO CLEANING playing back a tape playing back a tape	
	1
TO DSG COMBO: COMBO TED CLEANING VIDEO HEADS MAY NEED CLEANING VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING PLEASE INSERT HEAD CLEANING PLAY KEY END: PLAY KEY STOP/EJECT or POWER while the unit is in STOP/EJECT or POWER while the	7
CASSETTE OR HETE TO THE TOTAL OF POWER WITH	
CASSETTE KEY END: PLAY KEY STOP/EJECT or POWN STOP/EJECT or POWN VCR Lock mode VCR Lock mode	
VCR LOCK ACTIVATED VCR LOCK mode	
\"	

when pressed, press the COMBO button on the remote and try the button again.

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.

- 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.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See Page 43.)

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END:PLAY KEY

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.

Record/Playback Time

Only use tapes with the WHS mark in this unit.

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

Specifications

Display

Picture Tube: 25 inch measured

diagonal 110° deflection Picture Tube

VCR

Video Recording System: 4 rotary heads helical

scanning system

Audio Track: 1 track

Tuner

Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69 CABLE Channels: Midband A through 1 (14 ~ 22)

Midband Athrough 1 (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

Power Source: 120 V AC, 60 Hz Power Consumption: Approx. 130 watts (Power on)

Approx. 4.0 watts (Power off)

Television System: EIA Standard NTSC color Speaker: 1 piece

Operating Temperature: 5 °C ~ 40 °C (41 °F ~ 104 °F)
Operating Humidity: 10 % ~ 75 %

Weight: 31 Kg (68.2 lbs.)
Dimensions: 634 (W) X 590 (H) X

464 (D) mm 24-15/16" (W) X 23-1/4" (H) X 18-1/4" (D)

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

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

in Still mode, the 3 or 6 number key on the remote control or CH ▲▼ on the unit operate as a V-Lock control to reduce jitter.

PanaBlack™ Picture Tube

This unit uses a PanaBlackTM picture tube for better color reproduction and picture contrast.

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. 8-11) 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. 20) Poor picture with normal sound... Adjust VOLUME control. (P. 16) Poor sound with normal picture... Poor TV reception... Adjust SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 20) No color or poor color... Adjust TINT and COLOR controls in the SET UP TV menu. (P. 20) Ghost (multiple) images... Install a directional antenna. TV programs cannot be watched... Make sure the selected channel is in unit's memory. (P. 12, 13) Channel cannot be selected... Only the channel being 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. 8-11) Make sure cassette record tab is intact. (P.4) Timer recording cannot be Check that clock is set to current time and date. performed... 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. No playback picture, or the playback Adjust TRACKING control in either direction. (P. 41) picture is noisy or contains streaks... Try Head Cleaning. (P. 41) VCR cannot be controlled... Make sure VCR LOCK is set to off. (P. 31) 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. 7) so that signal is unobstructed. Inspect the remote batteries. (P. 4) Make sure VCR LOCK is set to off. (P. 31) Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference. Press COMBO button for COMBO mode. (P. 26) ACTION, PROGNCR+ and FM/ TV buttons cannot be selected... Check remote batteries. Miscellaneous Correction Video cassette cannot be Insert the cassette window side up; record tab facing you. inserted... Video cassette cannot be Completely insert Power Plug into an AC outlet. removed... Tape cannot be ejected or Try ejecting or inserting the tape again after turning POWER off, then inserted... back on. Video cassette ejects when a Make sure cassette record tab is intact. (P. 4) recording is started, or the power is turned off for timer recording... In Stop mode, the VCR motor To enable Quick Play mechanism, the VCR cylinder will rotate for (CYLINDER) continues to rotate... about 3 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. 31)

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.

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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

OHO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA 2221 Cabot Blvd

West Suite B Langhome, PA 19047

TEXAS

13615 Welch Road Suite 101 Farmers Branch, TX 75244

WASHINGTON

20425-84th Avenue South Kent, WA 98032

IIAWAII

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

Como realizar la Configuración Inicial

Presione POWER en el control remoto o en la unidad.

SELECT LANGUAGE
PUSH CH 4 : English
OPRIMIR CH T : Español
APP. VOL + : Français

Cuando encienda el VCR por primera vez, aparecerá la pantalla SELECT LANGUAGE.

- Si ajusta el idioma incorrecto, realice los pasos de la página 9 "Reajuste de todas las Funciones de Memoria de la unidad".
- Active la caja de cables y ajústela al canal PBS en su huso horario.
 Si usted utiliza receptor DSS, este debe estar apagado.

RIACION AUTO, (CARREQI)

CONECTE EL CABLE DE LA
ANTENA Y SPESTA USANDO
UNA CALA DE TV POR CABLE
SINTONICE AL CANAL PSI
DE SU LOCAL
LICEO...

POR FAVOR OPRIMIR CH UP

Presione CH ▲ para seleccionar inglés (English).

Presione CH ▼ para seleccionar Español.

O Presione VOL + para seleccionar Francés (Français). Aparecerá la pantalla CHANNEL / CLOCK AUTO SET

6/7/2000 MIE 12:00PU

HORA YERANIEGA ACT
CANAL FILAGO : CA 10

FIJACION ALTOMATICA
COMPLETO
TERMENUR : OPPIMIR CH UP

Presione la tecla CH

▲ para iniciar el
funcionamiento de
CHANNEL/CLOCK
AUTO SET. El ajuste
del CHANNEL/
CLOCK se lleva a cabo
automáticamente, si la
configuración se ha
terminado, se visualiza
la pantalla siguiente.

fuacion automatica del Reloj es incompleto Oprimir action Para fuar el reloj Si aparece la pantalla "FIJACION AUTOMATICA DEL RELOJ INCOMPLETO", ajuste el reloj utilizando los procedimientos de "AJUSTE MANUAL DEL RELOJ" mostrados en la página 9.

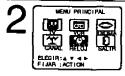
Ajuste Manual del Reloj

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.



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

FIJAR RELOJ

FIJACION AUTOMATICA
MERJIAN
AUSTE ZONA HORA: 0

ÉLEGIR: A V
FIJAR: 4 b
TERMINAR: ACTION

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

V FIJAR RELOJ

VERANO:ACT

STERIORMES

ELEGIR:A V
FIJAR:ACTION

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

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

Operaciones básicas para la reproducción

Inserte un casete.

 El videograbador combinado se enciende automáticamente.

Presione PLAY.

 La reproducción comienza automaticamente 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 PAÚSE/SLOW en el modo de imagen fija

■ Para parar → Presione STOP ■ Para rebobinar ta 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

- 4 horas.)

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

> → Grabación normal → 0:30 → 1:00-4:00 4-3:00 4-2:00 4-1:30 4

Grabación con temporizador

Exhiba FIJAR PROGRAMACION. Presione PROG/VCR+.

FIJAR PROGRAMACION TEMPORTZADOR VCR PTus+ ENCENDIDO AUTOMATICO LEO1R:A ▼ FIJAR : P TERMINAR: PROG

Exhiba TEMPORIZADOR. Presione ▲▼

para seleccionar. Presione > para exhibir.

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

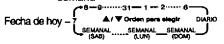


Ajuste la fecha de grabación.

 Presione ▲▼ para seleccionar. 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 semana



Repita el paso 3 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), categoría [N/O (no aplicable), DEPORTE, CINE, COMEDIA, MUSICA, DRAMA], velocidad (SP, LP, SLP)



Termine el programa. Presione PROG/VCR+ (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/VCR+ 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.

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,	CCD IMAGE SENSOR	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
VCR		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	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)
Combination	'''		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.

<u>Tape</u> (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 PRILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY OF COMPANY OF THE PRILITY OF

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. WAIVID 8/8/2000

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