

Things You Should Know

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 at right. The serial number is on the tag located on the back of your Combination VCR.

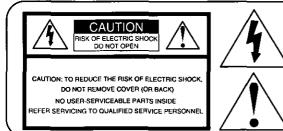
Safety Precautions

Date of Purchase	>	
Dealer Purchased	d From	
Dealer Address_		
Dealer Phone No)	
Model No	PV-M2737	
Serial No.		

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

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.



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

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

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Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from a power source indicated on the unit or in this manual.

If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home

2 POLARIZED OR GROUNDING PLUG

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

ARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

GROUNDING PLUG CAUTION: This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic.

If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected.

Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician.

Overloaded outlets and extension cords are fire hazards and should be avoided.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection follow these rules:

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

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or regulator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- · Support for the unit should be firm, level, and adequately strong.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- · Carefully follow all operating

instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.



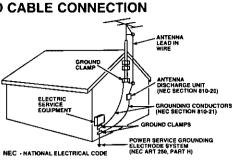


SAFE ANTENNA AND CABLE CONNECTION 1

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada,

part 1 of the Canadian

Electrical Code) provides



information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

An outside antenna system should be located well away from power lines. electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

USING THE VIDEO UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards.

- **1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR** MOISTURE OF ANY KIND.
- 2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

3 DURING AN ELECTRICAL STORM

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

4 WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water. DO NOT OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

5 USING ACCESSORIES

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

6 CLEANING THE UNIT

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

SERVICE

DO NOT SERVICE THIS PRODUCT YOURSELF 1

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

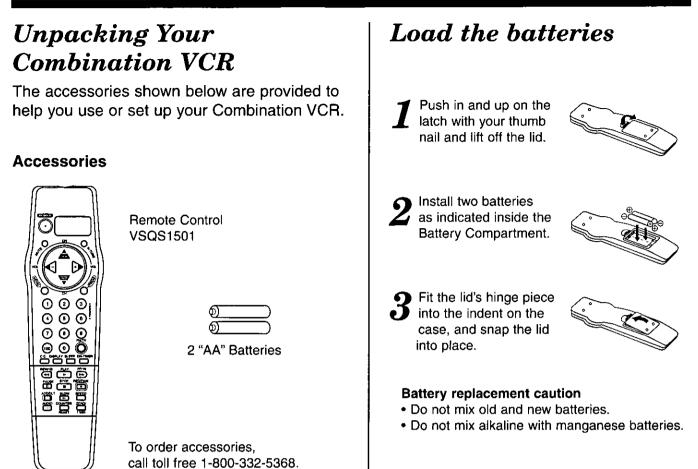
2 IF REPLACEMENT PARTS ARE REQUIRED

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

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.

Unpacking Your Combination VCR • Product Features



Product Features

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Alarm Timer	
All Channel Auto Set/181-CH TV/CATV Tuner	
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Auto Operation Functions (Auto Shut Off, Auto Playback, Rewind, Tape Eject, Power Off)	17
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Quick Play Mechanism	
Rapid Tune	11
Special Effects Playback	
Special VCR Features (VCR Lock, Warning Beeper)	
VCR Plus+ Recording	
Zero Search	



Antenna or Cable Connections

Outdoor Antenna Connection

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

Cable Connections

(A) Without a Converter/Descrambler Box

With this connection, you can: use your Combination VCR remote control to select channels for viewing and select unscrambled channels for timer recording. <u>Scrambled</u> <u>channels may not be viewed or recorded with</u> <u>this connection.</u>

(B) With a Converter/Descrambler Box

With this connection, you may record and view any channel including scrambled channels. Please note, however that <u>channel selection</u> <u>must be made at the cable company converter</u> box. Timer recording is limited to one channel at a time, and you can only view the channel you are recording.

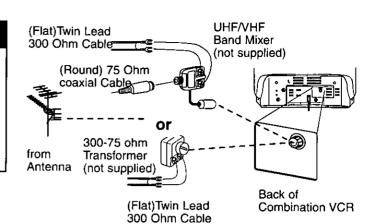
To Watch and Record Scrambled/ Unscrambled Channels

Set the Combination VCR to the output channel of the cable converter box (e.g. CH3). Now, select channels to be viewed or recorded at the cable converter box.

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

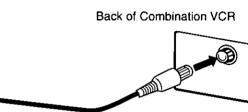
Note to CATV System Installer

This reminder is provided to call the CATV (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.

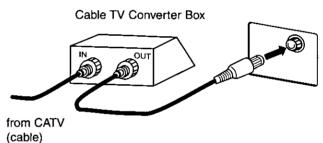


(A)



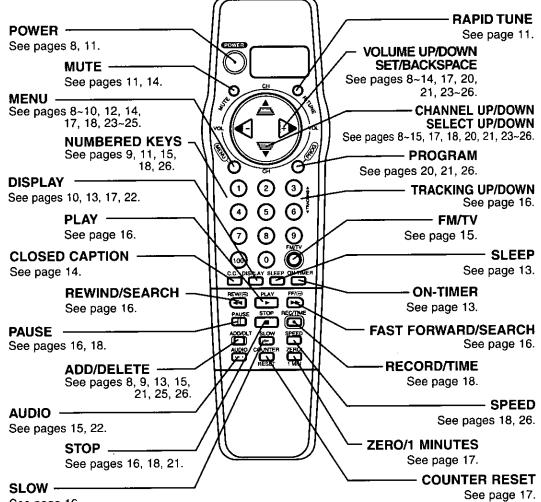


(B)



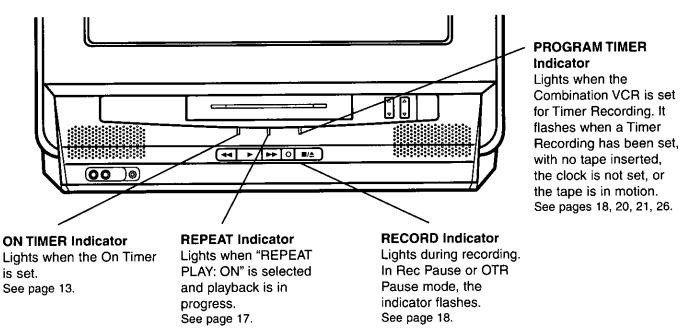
Location of Controls

Remote Control Buttons

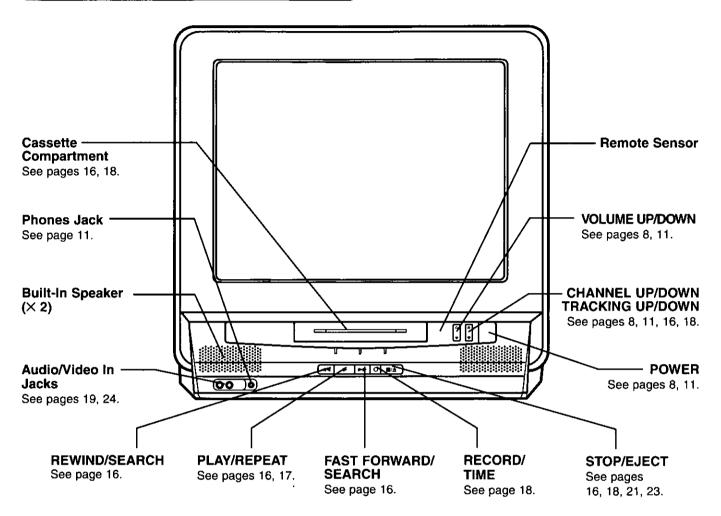


See page 16.

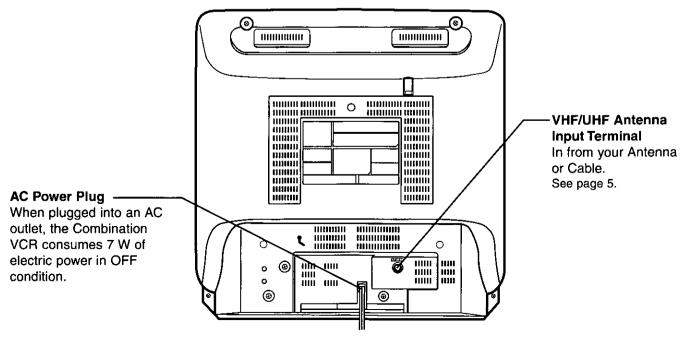
Indicators on the Front Panel



Front View of the Combination VCR



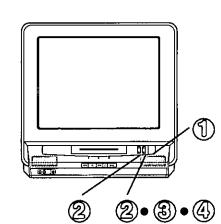
Rear View of the Combination VCR

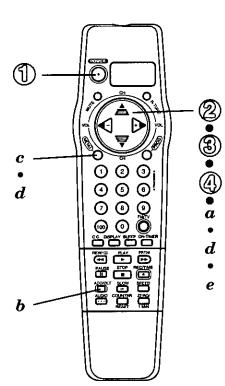


One Time Setup

Check list before you begin.

Your Combination VCR is connected to an Antenna, or Cable system (see page 5).



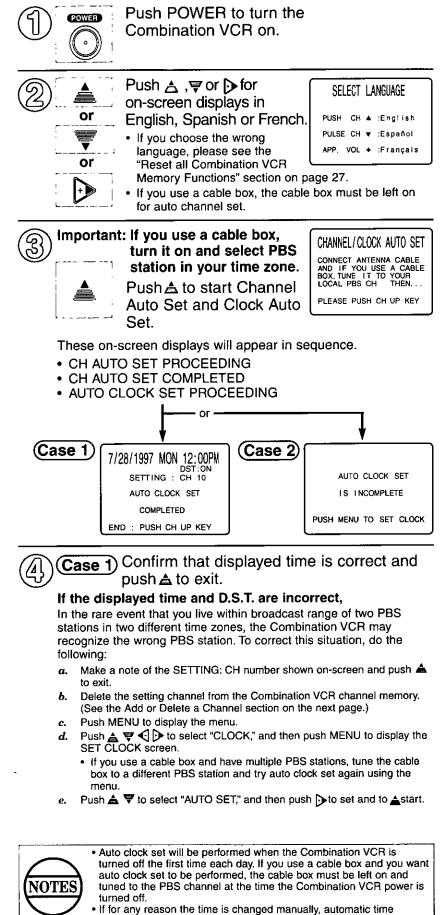




Whenever a menu or program screen is displayed, CHANNEL UP/DOWN and VOLUME UP/DOWN on the remote control function as 🛓 🐺 📢 🕞 only. For VOLUME UP/DOWN functions, use the buttons on the Combination VCR.

To Set Language, Channels, and Clock When the Combination VCR power is first turned on the channel auto set and

set clock screens appear automatically.

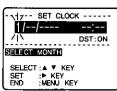


Case 2 If AUTO CLOCK SET IS INCOMPLETE appears, please set the clock manually.

- a. Push MENU to display the SET CLOCK screen.
- b. Push ▲ ♥ to select and ▷ to enter the month, date, year, time, and D.S.T. (Daylight Saving Time).
- To Make Corrections,

push \triangleleft \triangleright repeatedly to move back or forward to the desired item.

 c. Push MENU to start the clock. Then, push ▲ ♥ < ▷ to select "EXIT." Now, push MENU to exit the MAIN MENU.

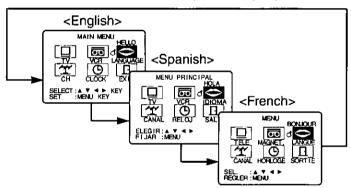


 "DST:ON" automatically adjusts for daylight saving time. (See page 27.)

To Change or Re-enter One Time Setup Items

To Change the OSD Language

- 1 Push MENU to display the MAIN MENU.
- 2 Push $\blacktriangle \forall \triangleleft \triangleright$ to select the language selection icon.
- 3 Push MENU repeatedly to change the language as shown.

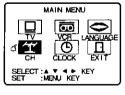


4 Push ▲ ♥ ④ to select "EXIT," and then push MENU to exit the MAIN MENU.

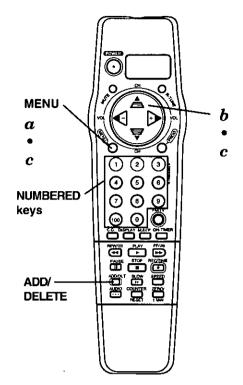
To Replace Channels in Memory

In case, you have cable installed, etc.

- 1 Push MENU to display the MAIN MENU.
- 3 Push ▲ ♥ repeatedly to select ANTENNA SYSTEM, and then push ID to select your antenna system (TV or CATV).
- 4 Push ▲ ▼to select AUTO SET, and then push ▷ to start.
 - To exit this mode, push MENU.
 Then, push ▲ ♥ ④ > to select "EXIT." Now, push MENU to exit the MAIN MENU.



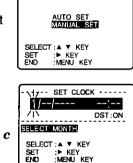




To Set or Reset the Clock

In case the clock is wrong, or a power failure occurred.

- 1 Push MENU to display the MAIN MENU.
- 2 Push ▲ ♥ ◀ ▷ to select "CLOCK." Then, push MENU to display the SET CLOCK screen.
- 3 Push▲ ▼ to select "MANUAL SET," and then ▷ to display the SET CLOCK screen.
- 4 Please do steps **b** and **c** at the top of this page.



CHANNEL 08 ADDED

CHANNEL 08 DELETED

----- SET CLOCK -----

To Add or Delete a Channel

- Select a channel using the NUMBERED keys to add or the CH ▲ ▼ to delete.
- 2 Push the ADD/DLT to add or delete the channel.
 - channel.
 To select a channel once it's deleted, use the NUMBERED keys.

- NOTES
- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.

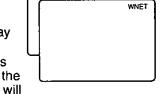
 Normal TV or Cable channels are automatically selected and placed in memory depending on how your Combination VCR is hooked up.



08

Channel & Function Display

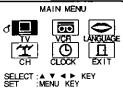
Whenever the channel is changed, the channel number will appear for a few seconds on-screen. (Some station names may also appear.) When a function button is pushed (PLAY, FF, etc.), the Combination VCR mode will be displayed.



• When a recording is started, both REC and the channel number will appear together.

Menu Screen

- Push MENU to display the MAIN MENU.
- Push ▲ ♥ ④ ▷ and MENU to make your selection (see page 8).

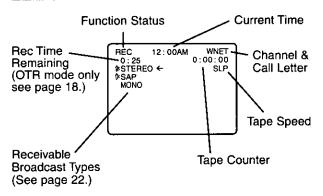


 To get the most from each feature, please read the Operation Manual before attempting any operation.

VCR Status & Clock Display



Push DISPLAY to display and remove the overlay shown below.



Blank Tape/ No Video Signal Indication

When a blank section of tape comes up in Play mode, or the selected channel has no broadcast signal, the TV screen will turn solid blue.

Warning and Instruction Displays

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

If no active channels are found for CHANNEL MEMORY... (see page 5.)

NO CH FOUND
PLEASE CHECK ANTENNA
CABLE CONNECTION THEN
PUSH CH UP KEY AGAIN

PLEASE SET CLOCK

BEFORE PROGRAMMING

If you attempt to set or review a Timer Recording or set the On Timer and the Clock is not set... (see pages 8, 9.)

If a Timer Program was not completed before exiting the Program mode... (see pages 20, 21.)

If you push REC on the remote control or the Combination VCR, and a cassette is inserted with no record tab... (see page 27.)

If you push STOP during a Timer Recording... (see page 21.)

If you push PLAY, FF, REW, or REC on the remote control or the Combination VCR without a cassette inserted... (see pages 16, 17, 18.)

If Combination VCR is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin... (see pages 20, 21.)

If head cleaning becomes necessary while playing back a tape... (see page 27.)

If you push a function button other than STOP/EJECT or POWER while the Combination VCR is in VCR Lock mode... (See page 23.)

DATE	START	STOP	СН		
7 SUN	10:30P	10:30P	125		
			SLP		
INCOMPLETE					
SET	:				
<u> </u>					

CHECK CASSETTE RECORD TAB

TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC

NO CASSETTE PLEASE INSERT A CASSETTE



VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL

END:PLAY KEY

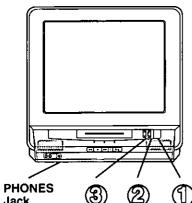
VCR LOCK ACTIVATED



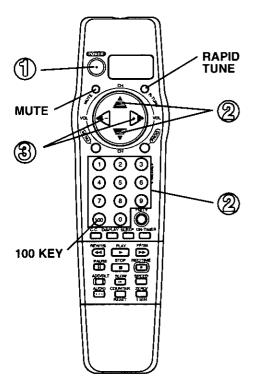
TV Operation

Check list before you begin.

All connections are made (see page 5). ☐ Your Combination VCR is plugged in.

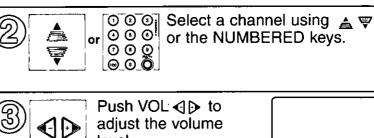


B Jack



POWER •

Push POWER to turn the Combination VCR on.



adjust the volume level.



Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first push the 100 key, and then enter the remaining two digits. For example, for channel 125:

Push the NUMBERED keys 100-2-5.

Rapid Tune

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

• When selecting channels with $CH \triangleq \overline{\nabla}$, the channels must be displayed for at least 4 seconds in order for the Combination VCR to recognize them as a new selection.

Previous channel	Present channel
СН08 🗲	← CH10

Audio Mute

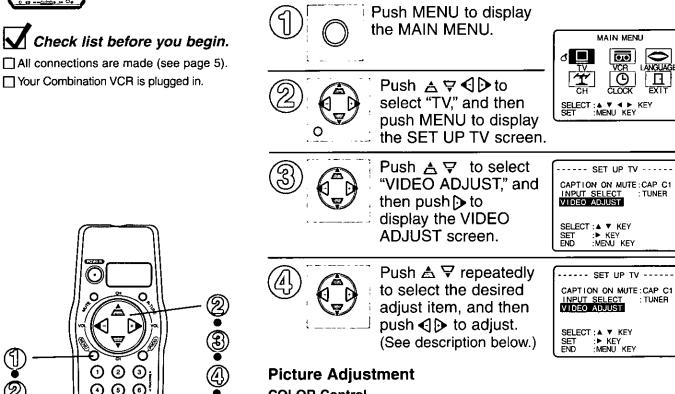
Push MUTE to instantly mute the sound. Push again, to restore the previous sound level.

Phones

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



Picture Adjustment



COLOR Control To adjust the intensity of the colors.

TINT Control

To adjust for the most natural fleshtones.

BRIGHT Control

To adjust the brightness of the picture.

PICTURE Control

To adjust the intensity of the picture by adjusting contrast and color level at the same time and in the proper balance.

SHARPNESS Control

To adjust the sharpness of the picture.

To Reset Picture Controls to the Factory Setting

Push $\blacksquare \heartsuit$ and \triangleright to select and set NORMAL. All controls return to factory settings.

COLOR	·····
TINT	
BRIGHT	
PICTURE	
SHARPNESS	
NORMAL	•
SELECT : A 🔻	KEY
SET 🕨 KI	
	J KEY

MAIN MENU

00

TUNER

TUNER

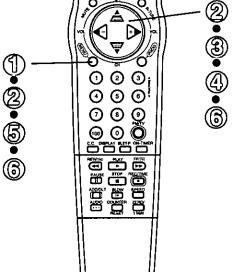


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Push MENU twice to exit the VIDEO ADJUST mode.

 If no button is pushed within 5 minutes, the video adjust overlay disappears.

Push $rac{1}{2} = \ rac{1}{2}$ to select "EXIT," and then push MENU to exit the MAIN MENU.



7)



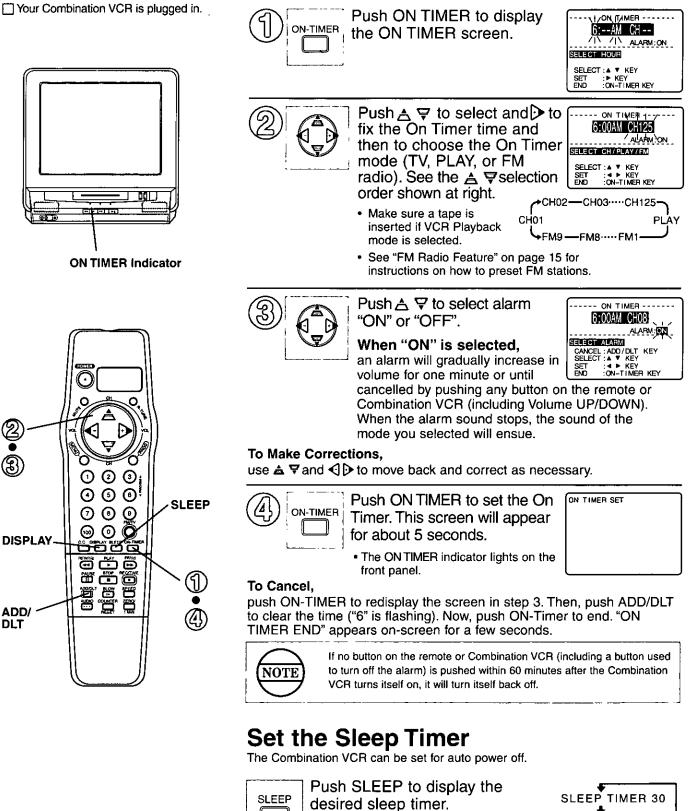
Check list before you begin.

All connections are made (see page 5).

TV Timer Features

On Timer with Alarm Feature

The Combination VCR 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.



DISPLAY-ADD/ DLT

> If you push DISPLAY with the SLEEP TIMER set, the remaining time will appear on-screen.

· Each push of SLEEP will change the

time in the order shown at right.

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

SLEEP TIMER 60

SLEEP TIMER 00

SLEEP

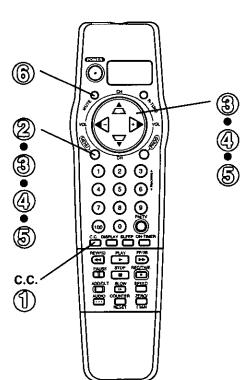
TIMER 90

CC Closed Caption System

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.

Check list before you begin.

All connections are made (see page 5).Your Combination VCR is plugged in.



Recording and Playing Back a Closed Caption/Text Program

Record: Your Combination VCR will automatically record the Closed Caption/Text signal. Just follow normal recording operation.

Playback: To display the Closed Caption narration or Text during playback, simply push C.C. until desired Caption Mode is displayed.



Push C.C. repeatedly to select the desired Caption Mode (see "Caption Mode description"

- below).
- Selected mode is displayed on screen.
 Each push of C.C. will

change the Caption Mode as



Closed Caption Modes to Choose From

Caption Mode: CAPTION C1 or C2

shown at right:

A narration of selected TV programs will be displayed on the screen. Check your TV program listings for C.C. (Closed Captioned) broadcasts.

Caption Mode: TEXT C1 or C2

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

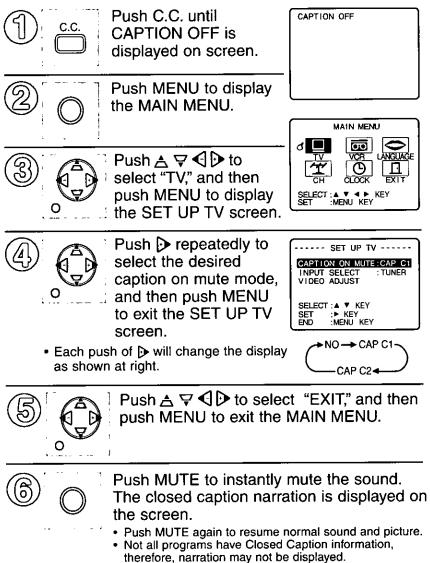
Caption Mode: OFF

Narration will not appear on the screen even if a closed caption or text broadcast is received.

• 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

This feature allows you to turn off the sound and, at the same time, display Closed Caption narration. Perfect for when you need silence, but would like to continue enjoying the program.



FM Radio



All connections are made (see page 5). ☐ Your Combination VCR is plugged in.

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AUDIO -

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FM Radio Feature

The Combination VCR 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 to wake up to your favorite music station.

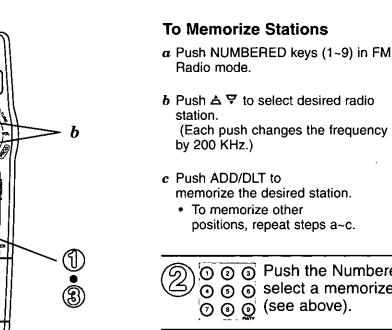


Push FM/TV on the remote control to select FM Radio mode.



· This screen changes to a black screen after 10 seconds.





c Push ADD/DLT to

memorize the desired station. To memorize other

positions, repeat steps a~c.

- INSTEREO ← MONO FM 1 87, 5MHz FM 1 87, 7MHz MEMORY: PUSH ADD/ DLT KEY FM 1 87.7MHz MEMORIZED
- ່ງ 🧿 🍯 Push the Numbered key (1~9) to
 - select a memorized channel \odot \odot \odot (see above). 000

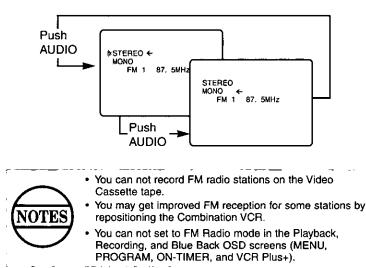


Push FM/TV on the remote control again to exit the FM Radio mode.

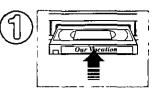
To Select Audio Mode for FM Radio

Push AUDIO in FM Radio mode to select "STEREO" or "MONO". Arrow points to current mode.

< Example >







PI AY

-

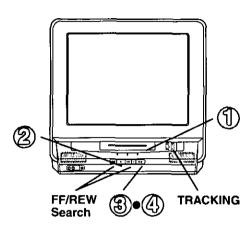
STOP

_

Insert a cassette.

Combination VCR power comes on automatically.

Check list before you begin. All connections are made (see page 5). Your Combination VCR is plugged in.



Combination VCR to start playback. · Playback begins automatically if cassette has no record

Push PLAY on the remote control or

tab (see page 17).

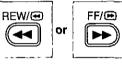
Push STOP on the remote control or Combination VCR to stop playback.



Push STOP/EJECT on the Combination VCR to eject the cassette.

· You may eject a cassette with power on or off.

To Find a Particular Scene During Playback



Push REW or FF on the remote control or Combination VCR to quickly locate a scene.

- SLP mode tapes have a search speed of 27 times the normal speed.
- Some noise bars will appear during search.

Special Effects During Playback

These features work best in SLP mode. The sound will be muted.

Slow Motion Playback

Push SLOW to start slow motion playback. Push PLAY or SLOW to release.

Still (Freeze) Frame Picture

Push PAUSE to freeze and release the picture.

To reduce picture noise, first push SLOW. Then, use the 3 or 6 NUMBERED keys on the remote control or CH UP/DOWN on the Combination VCR to clear up the picture, then push PAUSE.

Frame by Frame Advance

While in Still mode, push SLOW repeatedly or hold down to advance the still picture one frame at a time. Push PAUSE or PLAY to release.

(After the Combination VCR is in Still or Slow mode for 3 minutes, it will switch to the Stop mode automatically to protect the tape and the video head.)

Features for a Quality Picture

Digital Auto Tracking

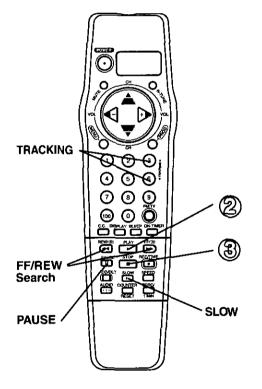
This feature continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control

Use during Playback and Slow Motion mode to reduce picture noise. Push the 3 or 6 NUMBERED keys on the remote control or CH UP/DOWN on the Combination VCR until the picture clears up. To return to Auto Tracking, push POWER off and then on again.

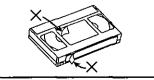
PanaBlackTM Picture Tube

This Combination VCR uses a PanaBlack™ picture tube for better color reproduction and picture contrast.



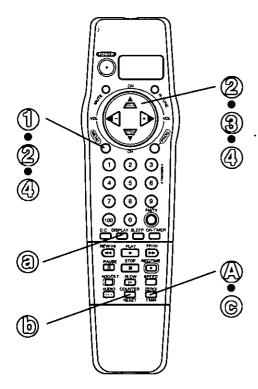


Please inspect your cassette tapes for any loose or peeling labels as they may become jammed in your unit.





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



Auto Operation Functions

Auto Shut Off

In TV or Game mode, when a broadcast signal is not received for 5 minutes, the Combination VCR will automatically power off (except when LINE INPUT is selected). In Playback mode, when a Video signal is not detected for 5 minutes, the Combination VCR will automatically power off and the tape will be rewound.

· This feature is deactivated when any button on the unit or remote control is pushed even if there is no signal present.

Auto Playback

When a tape is inserted, the power turns on (Auto). If the record tab* is removed, playback begins (Auto).

Auto Rewind

When a tape reaches its end during playback or fast forward the Combination VCR will rewind and go into Stop mode.

Playback Auto Eject (Repeat Play is "OFF.") When a tape without a record tab* is played to its end, the Combination VCR will rewind and then eject the tape.

Rec Auto Eject

After a tape reaches its end during normal recording, the Combination VCR will rewind and then eject the tape.

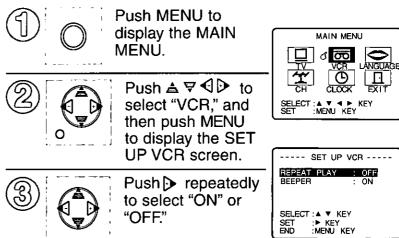
Memory Rewind Off

When POWER is pushed during rewind, rewind will be completed even though the Combination VCR turns off.

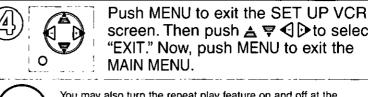
*For record tab information, see page 27.

Repeat Play

You can set your Combination VCR up to play a recording over and over.



- When REPEAT PLAY : "ON" is selected, the Combination VCR will play to the end of a tape, or until it reaches a blank portion 30 seconds or more. (Erased portions of tape are not considered blank.) Then, the Combination VCR will automatically rewind the tape and play it again and again until you cancel repeat play. The REPEAT indicator lights on the front panel.
- All function buttons (REW, FF, etc.) are operational during Repeat Play.



screen. Then push $\underline{A} \triangledown \mathbf{Q}$ to select "EXIT." Now, push MENU to exit the

You may also turn the repeat play feature on and off at the Combination VCR by pushing PLAY during playback once or twice until the repeat indicator lights up (ON), or goes out (OFF).

One Minute Skip

With this feature, you can skip over commercials recorded on a tape.



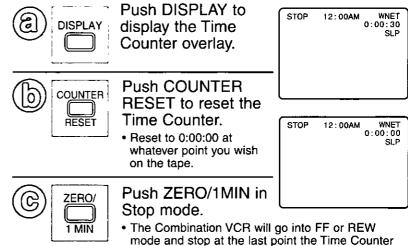
NOTE

Push ZERO/1MIN in Play mode. The Combination VCR will go into FF search mode

and skip over 60 seconds of recorded time. Then, normal playback will resume.

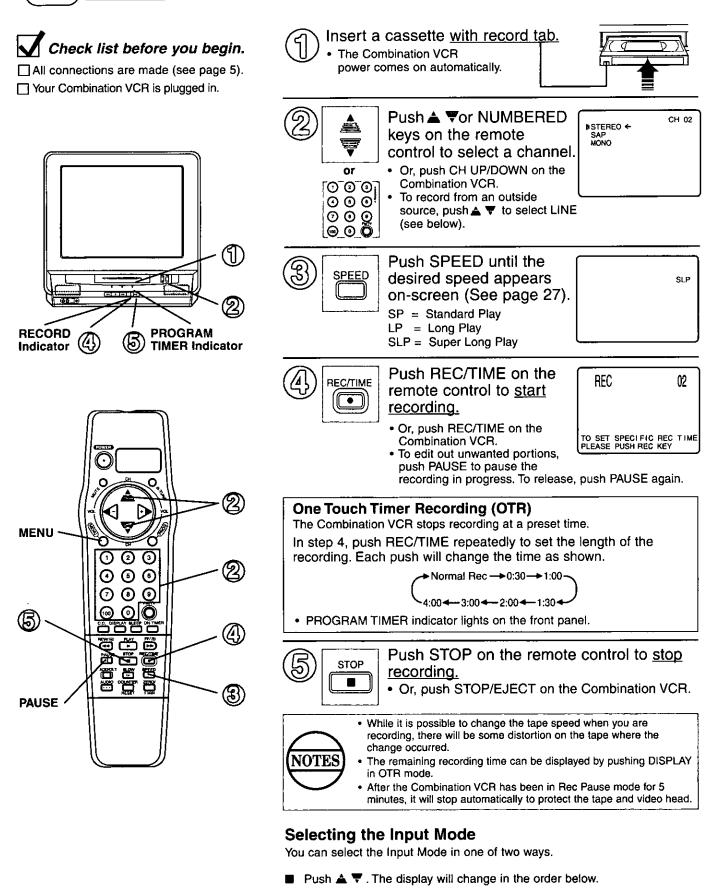
Zero Search

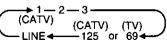
You can reset the Timer Counter to zero and then return to that point.



was set to 0:00:00.







- a. Push MENU to display the menu.
 - b. Push ▲ ▼ < ▷ to select "TV," and then push MENU to display the SET UP TV screen.</p>
 - c. Push ▲ ▼to select "INPUT SELECT," and then push ▷ repeatedly to select "TUNER" or "LINE."

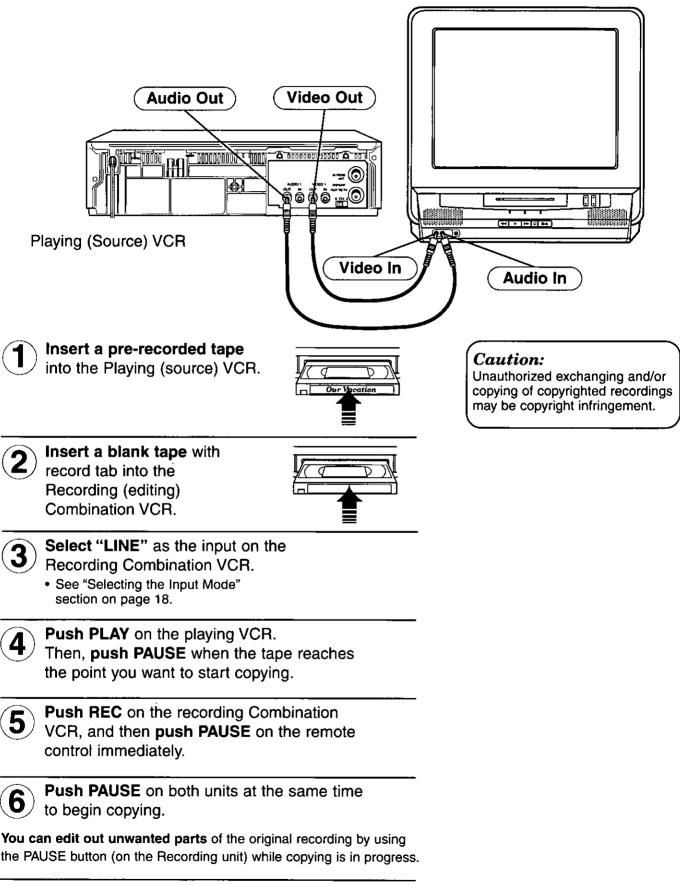
Copying Your Tapes (Dubbing)

Connections you'll need to make.

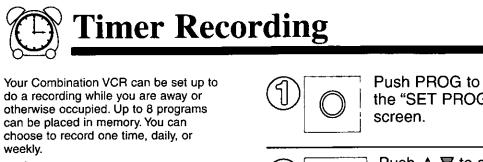
(1993) 1993

• Use this same connection for your video camera, laser disc player, video games, etc.

Recording(Editing) Combination VCR

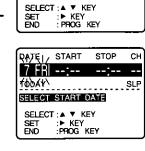


7



Push PROG to display the "SET PROGRAM"

- Push ▲ ♥ to select **"TIMER PROGRAM,"** and then push >to display the program screen.
- If a program is already in memory, push 📥 🐺



SET PROGRAM -----

VCR Plus+ PROGRAM

90

Check list before you begin.

All connections are made (see page 5).

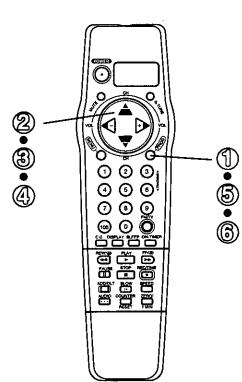
Your Combination VCR is plugged in.

The clock is set.

The tape is long enough.

The record tab is in place.

PROGRAM TIMER Indicator



repeatedly, and then > to select an unused program number.					
3	Push ▲ ♥ and ▷ to select and set one of the following: 1~31 = One time recording DAILY = Same time MON ~ FRI WEEKLY = Same time once a week				
	Today's —7 SELECT▲	·31 — 1 — 2····· 6 /▼ Selection Order DAILY WEEKLYWEEKLY (MON)(SUN)			
	Push ▲ ♥and ◀ ▷ to select and set each of the remaining items at right.	Remaining Items: • START time • STOP time • CH(annel) number, or LINE for outside source recording • Speed (SP, LP, SLP)			
To Make Corrections					

Repeatedly push
> to move the cursor to the right, or
< to move to the left to the incorrect entry and make the correction.



Push PROG to end the program.

 This screen appears for confirmation.

To Enter More Programs

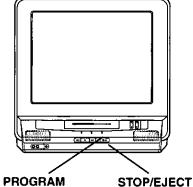
Push \blacktriangle \forall and \triangleright to select and set a blank program number, and then repeat steps 3 and 4.



Push PROG twice to return to the normal screen.

- The PROGRAM TIMER indicator lights on the front panel.
- 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.

Two minutes before the Timer Recording starts, "TIMER REC WILL START SOON" will appear on-screen.



TIMER Indicator

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.

Replace Program Contents: (Recording is not in progress)

- 1 Do steps 1 and 2 on previous page. All currently set programs will be displayed on-screen.
- 2 Push $\blacksquare \forall$ repeatedly to select the desired timer recording, and then push > to display the settings. (See page 20.)

3 Push ▲ \ Prepeatedly to select, and

then push > to enter replacement

information.

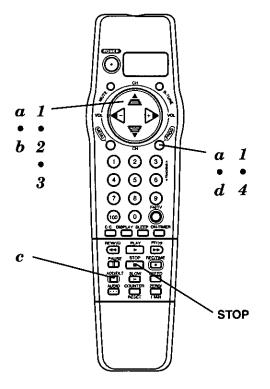
SELECT 1-8:▲ ▼ KEY ENTER :► KEY END :PROG KEY RATEL START STOP СН 8 SAT 10:00P 11:00P 125 SLP SELECT START DATE

SELECT : ▲ ▼ KEY SET : ◀ ► KEY END : PROG KEY

DT START STOP CH SPD

8 10:00 p 12:00 p 125 SLP 10 8:00 p 9:00 p 10 SP SU 9:00 p 10:00 p L SLP

34



4 Push PROG three times to exit this mode and return to the normal TV screen.

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

- a. Do steps 1 and 2 on previous page. All currently set programs will be displayed on-screen.
- b. Push ▲ Frepeatedly to select the desired program number.
- c. Push the ADD/DLT to clear the program.
- d. Push PROG twice to exit this mode and return to the normal TV screen.

_					_
ÍР		START			SPD
1	day	9:00a	12:00a	08	SP
23	8	10:00p	12:00p	125	SLP
		8:00p			
4	SU	9:00p	10:00p	L	SLP
	SELE	CEL:ADE ECT 1-8 ER :► F PRC	LLA ▼ H KEY		

_				
<u>р</u> рт	START	STOP	СН	SPD
10	:			÷
2 B 3 10	10:00 p	12:00p	125	SLP
3 10	8:00 p	9:000	10	SP
	9:00p			
ENT	ECT 1-8 ER :► k :PRO	έY	ΈY	



- If "PLEASE PREPARE FOR TIMER REC" appears and/or the PROGRAM TIMER indicator flashes, check that a cassette with record tab is loaded and the Combination VCR 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 18), 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 continue.
- · If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.

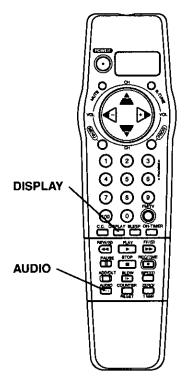




Check list before you begin.

All connections are made (see page 5). ☐ Your Combination VCR is plugged in.

IMPORTANT NOTE: This stereo system is designed for TV viewing only. Recording and playback will always be in monaural.



Receivable Broadcast Types

The following are possible broadcast types with their accompanying on-screen displays. The signal being received is indicated with an "(«" mark while the selected audio mode is indicated with an arrow. To change the audio mode for these broadcasts, follow the "Select Audio Mode for TV Viewing" section. (below)



Push DISPLAY to display the broadcast signal currently being received.

MTS Stereo and SAP broadcast

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

MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast is being received. Select the STEREO audio mode.

· If a stereo broadcast is weak and the display flickers, you may want to select the MONO audio mode for better results.

SAP broadcast

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

MONO broadcast

Normal monaural sound broadcast is being received.

STOP	12:00AM	WNET
♦ STERE	0 ←	SLP
I SAP	-	
MONO		

STOP	12:00AM	WNET 0:00:00
ØSTERE SAP MONO	:0 ←	SLP

STOP	12:00AM	WNET 0:00:00
STERE SAP MONO	•	SLP

STOP	12:00AM	WNET 0:00:00
STERE SAP MONO	:0 ←	SLP
	·	

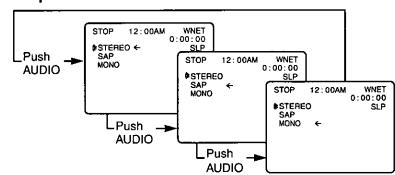
Select Audio Mode for TV Viewing



Push AUDIO to select the desired audio mode as described above. (Arrow shows selection.)

· Each push of AUDIO will change the audio mode as shown below.

< Example >



SPECIAL Special VCR Features

Check list before you begin.

☐ All connections are made (see page 5). ☐ Your Combination VCR is plugged in.

STOP/EJECT

VCR Lock Feature

When activated, this feature prohibits all operations except for timer recording and tape eject. This feature is used to keep children from operating the Combination VCR.



Hold down STOP/EJECT on the Combination VCR for 7 seconds during Stop or Power OFF mode.



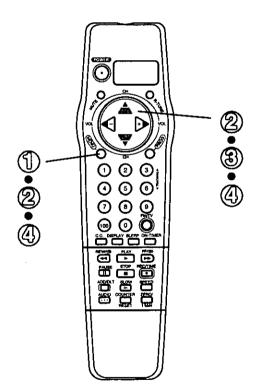
To Cancel the VCR Lock feature,



Hold down STOP/EJECT on the Combination VCR for 7 seconds again during Stop or Power OFF mode.

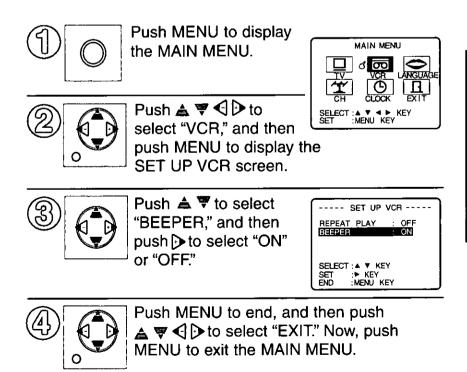
- VCR Lock mode is cancelled automatically after 24 hours as long as the clock is set.
- This feature cannot be activated or cancelled when a timer or one touch recording is in progress.





Warning Beeper Feature

When you select BEEPER ON, a short warning will sound each time an invalid entry or incomplete operation is made.



More you Can Do



Easy Taping.

VCR Plus+ programming allows you to set most items of a timer recording by simply entering a special code (PlusCode) found in *TV GUIDE* magazine as well as the TV listings in selected newspapers. In order for your Combination VCR to do a VCR Plus+ recording, or a timer recording of cable stations, some setup is required.

At first, choose your Connection Type.

(Then, follow the instructions under the diagram.)

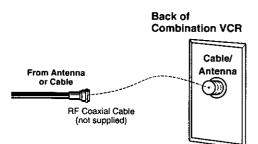
Connection Type A <CABLE BOX → COMBINATION VCR> D From Cabl Cable/ Antenna Cable Box 6 Sour **@**™ RF Coaxial Cable (not supplied) Back of **Combination VCR** (3) YIDEO ()) ALC: VIDEO IN ÀUDIO IN ۵ ک Front of Combination VCR

If your system looks like this, do the following.

- 1. Complete the "Cable Box Setup" section at right.
- 2. Skip page 25 and go directly to page 26 for VCR Plus+ Programming.

Connection Type B

<CABLE or ANTENNA → COMBINATION VCR>

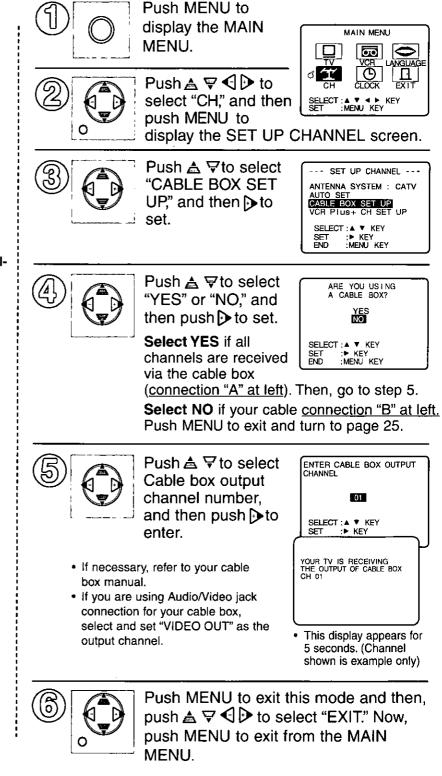


If your system looks like this, do the following.

- 1. Skip the "Cable Box Setup" section at right and turn to page 25.
- 2. Complete the "VCR Plus+ Channel Setup" section on page 25.
- 3. Turn to page 26 for VCR Plus+ Programming.

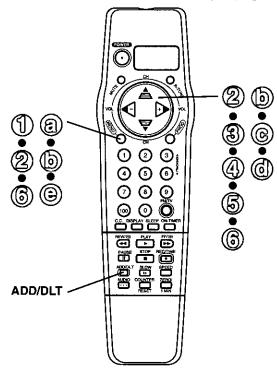
VCR Plus+ and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

Cable Box Setup For Connection Type A (see left) only



Go directly to VCR Plus+ Programming on page 26.

In order for the Combination VCR to read the VCR Plus+ code, some setup is required. A Guide (VCR Plus+) channel number is assigned to each local broadcast and cable station. Because this number sometimes differs from the channel your TV receives the station on, it is necessary to program the Combination VCR with local channel information.



Channel Setup Preparations

NOTE:

Complete the steps on this page if your Combination VCR hook-up resembles "B" on page 24.

Prepare a list like the example below.

This list will help you smoothly enter the information needed in step "d" at right.

You will need the following to complete the list:

- A line up of normal and/or cable stations you receive along with the channel numbers your TV receives them on. A cable channel line-up chart is supplied by your cable company.
- A list of Guide (VCR Plus+) channel numbers assigned to the stations you receive. This list is available in TV Guide and the TV listings found only in selected newspapers.
- 1 Make a chart with 3 columns like the example below. In the left column, fill in the name or call letters of the stations you receive.
- 2 In the middle column, fill in each station's assigned Guide (VCR Plus+) number found in TV Guide, newspapers, etc.
- **3** In the right column, fill in the channel number that your TV receives the station on from your channel line-up.

< EXAMPLE ONLY >

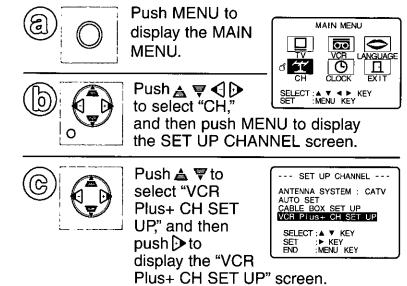
Broadcast or Cable Station Name	Assigned Guide (VCR Plus+) channel no.	Channel no. your TV receives the station on
HBO	33	15
Nickelodeon	38	20
CBS	34	04
FOX	11	
\sim	\sim	

VCR Plus+ Channel Setup For Connection Type B (page 24) only

 Before you begin, complete the Channel Setup Preparations below left.

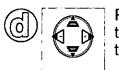
Important Note:

If your Combination VCR Connection type changes, from Type A to B, repeat step 4 of previous page, select "NO".



IMPORTANT NOTE:

For step "d", use the list you prepared at left. You may leave lines blank if you don't receive that station, or if the GUIDE CH number and the CATV (or TV) CH numbers are the same.



Push Doto move the shaded area to the right side.

VCR Plus+	CH SET UP
GUIDE CH	CATV CH
→ 01 02	
SELECT:▲▼) SET :► KEY END :MENU	,

Then, push 🛓 🛡

to change the CATV(or TV) CH number.

Next, push 📢

to set the CATV(or TV) CH number.

Now, push ▲ ₹

to continue. Repeat this operation until the list is complete.

To Make Corrections

Push $\blacktriangle \bigtriangledown$ and \triangleright to select the incorrect CATV or TV CH number. Then, push $\blacklozenge \bigtriangledown$ to change, or ADD/DLT to delete the channel.



Push MENU twice to exit the VCR Plus+ CH SET UP. Then, push ▲ ♥ ◀ ▷ to select "EXIT." Now, push MENU to exit the MAIN MENU.

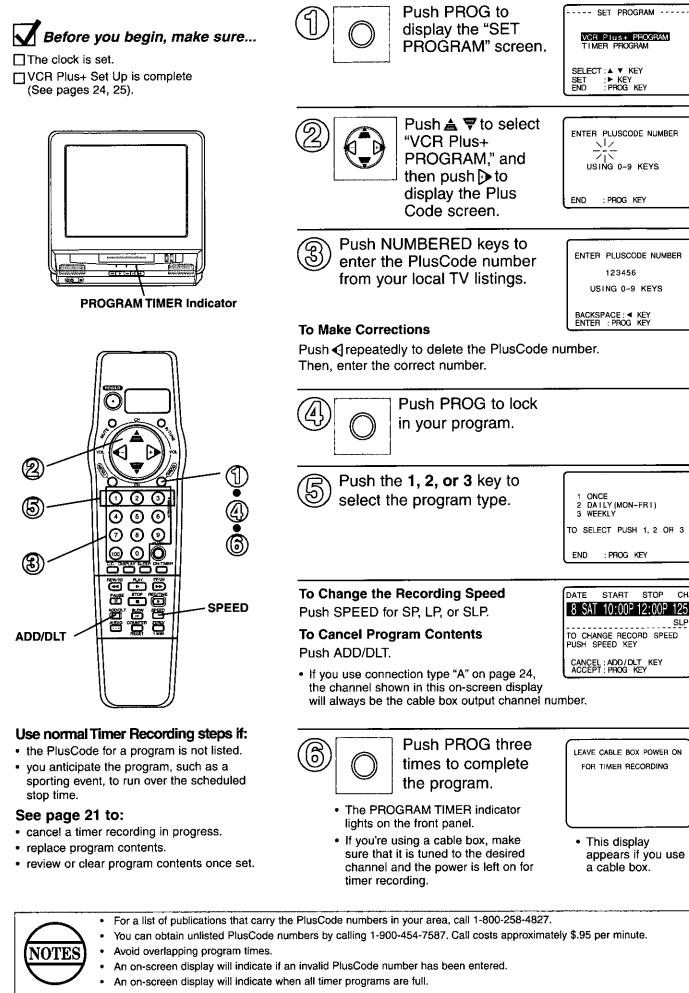


 Make each entry within 5 minutes or the Combination VCR will leave this mode.

 Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

VCR Plus+ Programming

Easy Taping.



Unit and Cassette Information

Erase Protection (Record Tab)

Cassettes have a record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure, break off the tab with a screwdriver.



To record again, cover the hole with <u>cellophane tape.</u>



Maximum Record/Playback Time

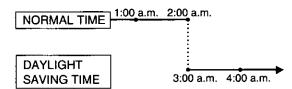
Only use tapes with the WHS mark in this unit.

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

D.S.T. (Daylight Saving Time)

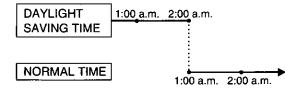
Spring (First Sunday in April)

When the Combination VCR is set to DST:ON, it automatically adds one hour and adjusts the clock.



Autumn (Last Sunday in October)

When the Combination VCR is set to DST:ON, it automatically turns back one hour and adjusts the clock.



SELF-DEMO MODE

In Power ON condition, hold down PLAY/REPEAT on the Combination VCR, with no tape inserted, for 5 seconds. The demo screen appears.

To cancel: Repeat the above operation. The demo screen disappears.

Reset all Combination VCR Memory Functions

Use when moving the Combination VCR to a new location, or if a mistake was made in the One Time Setup section.

- Make sure a tape is not inserted in the Combination VCR.
- 1) Push POWER to turn the Combination VCR on.
- Hold down both the PLAY and REWIND buttons on the Combination VCR for more than 5 seconds.
 - The power will shut off.
- 3) Turn the power back on and perform the One Time Setup section on page 8.

Head Cleaning

Your Combination VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape.

Video Heads Sensor System

If head cleaning becomes necessary, the Combination VCR will display the screen at right while playing back a recorded signal. To exit this screen, push PLAY on the remote control or Combination VCR.

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL

END: PLAY KEY

- Use "dry" type head cleaning cassette* only.
- Be sure to follow the cleaning tape instructions carefully. Excessive use of a cleaning cassette can shorten head life.
- If using a head cleaning cassette does not solve the problem, contact your nearest Factory Service Center or authorized Service Center. (See page 30.)

*Cleaning cassette part No. NV-TCL30PT is recommended.

Product Specifications

Display	
Picture Tube:	27 inch measured diagonal 100° deflection Picture Tube
VCR	
Video Recording System:	
Audio Track: Tuner:	1 track
Broadcast Channels:	VHF 2~13, UHF 14~69
CATV Channels:	Midband A through I (14~22)
	Superband J through W (23~36)
	Hyperband AA~EEE (37~64)
	Lowband A-5~A-1 (95~99)
	Special CATV channel 5A (01)
	Ultraband 65~94, 100~125
FM Radio	
Band range:	87.5~108.1 MHz
General	
Power Source:	120V AC, 60 Hz
Power Consumption:	Approx. 157 watts (Power on)
·	Approx. 7 watts (Power off)
Television System:	EIA Standard NTSC color
Speaker:	2 pieces
Operating Temperature:	41°F~104°F (5°C~40°C)
Operating Humidity:	10%~75%
Weight:	85.9 lbs. (39 Kg)
Dimensions:	27-1/16" (W) X 27-15/16" (H) X 21-5/16" (D)

688 (W) X 659 (H) X 542 (D) mm Note: Designs and specifications are subject to change without notice.



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

Power	Correction
No power	 Completely insert the Power Plug into an AC wall outlet. Set the POWER button to ON.
Monitor	Correction
No picture or sound	 Make sure your antenna or cable system is connected to the Combination VCR. (P. 5) Check that the power plug is completely plugged into an AC
·	outlet. • Check that the POWER button is set to on.
Poor picture with normal sound	Adjust the BRIGHT, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P. 12)
Poor sound with normal picture	Adjust the VOLUME control. (P. 11)
Poor TV reception	Adjust the SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 12)
No color or poor color	Adjust the TINT and COLOR controls in the SET UP TV menu. (P. 12)
Ghost (multiple) images	Install a directional antenna.
TV programs cannot be watched	Make sure that the channel being received is in the Combination VCR's memory. (P. 8)
VCR	Correction
TV program cannot be recorded	Make sure your antenna or cable system is connected to the Combination VCR. (P. 5)
	• Make sure that the record tab is intact on the cassette. (P. 27)
Stereo or SAP broadcasts cannot be recorded	• This unit is not designed for stereo/SAP broadcast recording.
Timer recording cannot be performed	 Set the recording Start/Stop time correctly. (P. 20-21) 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 if power resumes thereafter.
No playback picture, or the playback picture is noisy or contains streaks	Adjust the TRACKING control in either direction. (P. 16)
VCR cannot be controlled	Make sure that VCR LOCK is set to off. (P. 23)

Remote Control	Correction
Combination VCR cannot be remote controlled	 Aim the Remote Control directly at the remote sensor on the Combination VCR. (P. 7) Avoid all obstacles which may interfere with the signal path. Inspect the remote batteries for possible replacement. (P. 4) Make sure that VCR LOCK is set to off. (P. 23) Exposing the Combination VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
Miscellaneous	Correction
Video cassette cannot be inserted	 Insert cassette with window side up and the record tab facing you.
Video cassette cannot be removed	Check that the power plug is completely plugged into an AC outlet.
Eject does not function or insertion cannot be done	 Turn the POWER off and then on, and try ejecting or inserting the tape again.
Video cassette ejects when a recording is started, or the power is turned off for timer recording	Make sure the record tab is intact on the cassette. (P. 27)
In stop mode, the VCR motor (CYLINDER) continues to rotate	 To enable the quick play mechanism, the VCR cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode from Play to Rewind Search mode.
VCR cannot be controlled	Make sure that VCR LOCK is set to off. (P. 23)

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

To locate an authorized servicenter call toll free 1-800-545-2672.

PRODUCT INFORMATION • OPERATION ASSISTANCE • LITERATURE REQUESTS • DEALER LOCATIONS

Customer Service Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters) 201-348-9090 (9:00am-8:00pm Monday-Friday, EST)

ACCESSORY PURCHASES

Panasonic Services Company 20421 84th Avenue South Kent, WA 98032 (6 am to 6 pm Monday-Friday ; 6 am to 10:30 am Saturday ; PST) (Visa, Mastercard, Discover card, American Express, Check)

AUTHORIZED SERVICENTERS • PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicenter or parts distributor in your area, within the USA dial toll free **1-800-545-2672**, 24 hours a day, 7 days a week.

PRODUCT REPAIRS

CALIFORNIA 6550 Katella Avenue Cypress, CA 90630 Phone (714) 373-7426 Fax (714) 894-8534 800 Dubuque Avenue S. San Francisco, CA 94080 Phone (415) 871-6373 Fax (415) 871-6840

20201 Sherman Way Suite 102 Canoga Park, CA 91306

Phone (818) 709-1775 Fax (818) 709-2165 3878 Ruffin Road

Suite A San Diego, CA 92123 Phone (619) 560-9200 Fax (619) 560-1831

COLORADO

1640 South Abilene Suite D Aurora, CO 80012 Phone (303) 752-2024 Fax (303) 752-0610

FLORIDA

3700 North 29th Avenue Suite 102 Hollywood, FL 33020 Phone (954) 925-2880 Fax(954) 925-5224

4710 Eisenhower Boulevard Suite A1 Tampa, FL 33634 Phone (813) 884-4746 Fax (813) 886-4564 Factory Servicenters

GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350 Phone (770) 518-6301 Fax (770) 518-6306 **HAWAII** 99-859 Iwaiwa Street Aiea, Hawaii 96701

Phone (808) 488-4369 Fax (808) 486-4369 ILLINOIS 1703 North Randall Road * Elgin, IL 60123 *12:30 to 4:30, Mon-Fri" Phone (847) 468-5464 Fax (847) 468-5465 9060 Golf Road Niles, IL 60714 Phone (847) 608-1010

Fax (847) 299-1710 MARYLAND Sulphur Springs Business Park 1638 Sulphur Springs Road Baltimore, MD 21227 Phone (410) 242-2607 Fax (410) 247-3047 MASSACHUSETTS 60 Glacier Drive, Suite G Westwood, MA 02090 Phone (617) 329-4280 Fax (617) 329-0586

* pick-up/drop-off only

MICHIGAN

37048 Van Dyke Avenue Sterling Heights, MI 48312 Phone (810) 939-2060 Fax (810) 939-2638

MINNESOTA

7850-12th Avenue South Airport Business Center Bloomington, MN 55425 Phone (612) 854-8624 Fax (612) 854-2089

OHIO

2236 Waycross Road Cincinnati, OH 45240 Phone (513) 851-4180 Fax (513) 851-8443

PENNSYLVANIA 2221 Cabot Boulevard West Suite B Langhorne, Pa 19047 Phone (215) 741-0661 Fax (215) 741-0521 Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017 Phone (412) 257-4522 Fax (412) 257-4650

TENNESSEE 919-8th Avenue South Nashville, TN 37203 Phone (615) 244-4434 Fax (615) 244-6713

TEXAS

7482 Harwin Drive Houston, TX 77036 Phone (713) 781-1528 Fax (713) 781-0643

13615 Welch Road Suite 101 Farmers Branch, TX 75244 Phone (972) 385-1975 Fax (972) 960-7626

WASHINGTON 20425-84th Avenue South Kent, WA 98032 Phone (206) 872-7922 Fax (206) 872-0918

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985 Phone (787) 750-4300 Fax (787) 768-2910

REPAIR INQUIRIES

EAST (PCE) 2221 Cabot Boulevard West Suite A Langhorne, PA 19047 Phone (215) 741-0676 Fax (215) 750-6492 Covers: CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, DC, WV

Regional Customer Care Department

EAST (PCE) 1225 Northbrook Parkway Suite 2-390 Suwanee, GA 30174 Phone (770) 338-6860 Fax (770) 338-6548 Covers: AL, FL, GA, MS, NC, SC, TN **CENTRAL (PCC)** 1707 North Randall Road Elgin, IL 60123 Phone (847) 468-5530 Fax (847) 468-5528 Covers: AR, IL, IN, IA, KS, KY, LA, MI,MN, MO, NE, ND, OK, SD,TX, WI, OH WEST (PCW) 6550 Katella Avenue Cypress, CA 90630 Phone (714) 373-7440 Fax (714) 373-7447

Covers: AK, AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, WY, HI

As of December '96

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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 Infanteria, 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	
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR	NINETY (90) DAYS
	CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT	NINETY (90) DAYS
	CRT - TWO (2) YEARS	CRT - NINETY (90) DAYS
		CUSTOMER PAY ALL LABOR
		CHARGES AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 19" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 18" (diagonal) CRT / LCD and smaller

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

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

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free, 1-800-545-2672, 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 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, maładjustment 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 PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 2/11/97

Spanish Quick Use Guide/Guía para rápida consulta

(Plano) Cable bifubular

(Redondo) Cable

coaxial de 75 ohmios

Transformador

de 300-75

ohmios

(no está incluido) =

0

(Plano) Cable bifubular

de 300 ohmios

de 300 ohmios

desde

la antena

Conexión de la antena externa

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

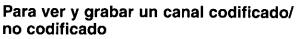
Conexiones de TV por cable

(A) Sin la caja convertidora/ decodificadora

Con esta conexión usted podrá utilizar su control remoto de la combinación de VCR/TV para seleccionar los canales que desea ver y seleccionar canales no codificados para su grabación programada. Esta conexión no permite ver ni grabar canales codificados.

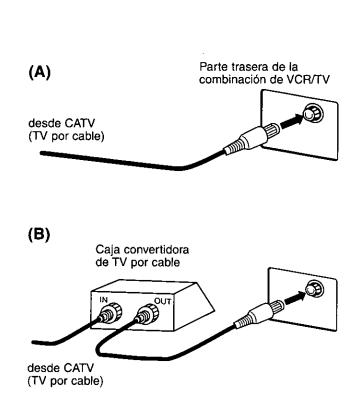
(B) Con una caja convertidora/ decodificadora

Con esta conexión, usted podrá grabar y ver cualquier canal, incluyendo los canales codificados. Sin embargo, la selección de canales se debe efectuar en la caja convertidora de TV por cable que suministra esta empresa. La grabación programada está limitada a un canal cada vez, y sólo se podrá ver el canal que esté grabando.



Sintonice el canal del Registrador de la combinación de VCR/TV en el canal de salida de la caja convertidora de televisión por cable (por ejemple el canal 3).

Después, seleccione en la caja convertidora de TV por cable el canal que se quiera ver o grabar.



Mezclador de banda

Parte trasera de la combinación de

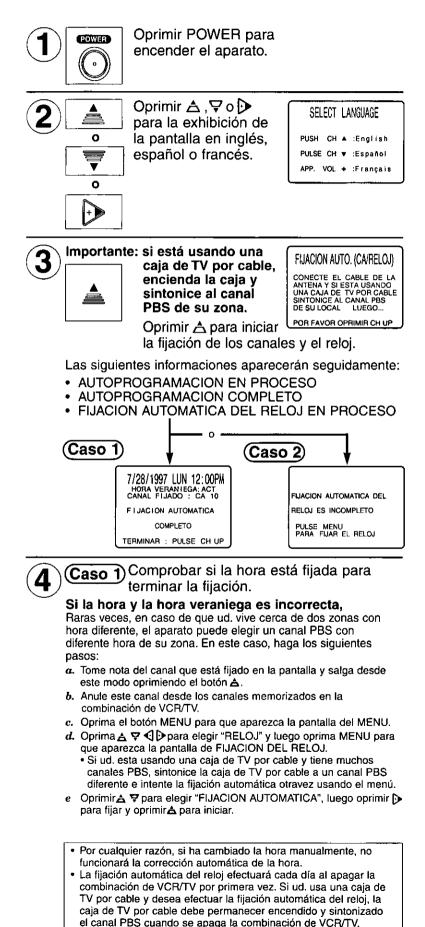
VCR/TV

(no está incluido)

UHF/VHF

Para fijar el idioma, canal y reloj

Al encender la combinación de VCR/TV por primera vez, aparecerán las pantallas para fijar automáticamente los canales y el reloj.



Caso 2 Si aparece FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO, por favor fije el reloj manualmente.

- Oprimir MENU para que aparezca la pantalla de la fijación del reloj.
- b. Oprimir▲ ♥para elegir y oprimir ▷ para fijar el mes, la fecha, el año, la hora y la hora veraniega.

Para hacer correcciones,

Oprimir \blacksquare > repetidamente para retroceder o avanzar hasta el paso que desea corregir.

 c. Oprimir MENU para iniciar a funcionar el reloj. Luego oprimir ▲ ♥ ◀ ▷ para elegir "SALIR" y oprimir MENU para salir de la pantalla del MENU PRINCIPAL.

Para fijar o fijar de nuevo el reloj

En caso de que el reloj es incorrecto o ha ocurrido un corte eléctrico.

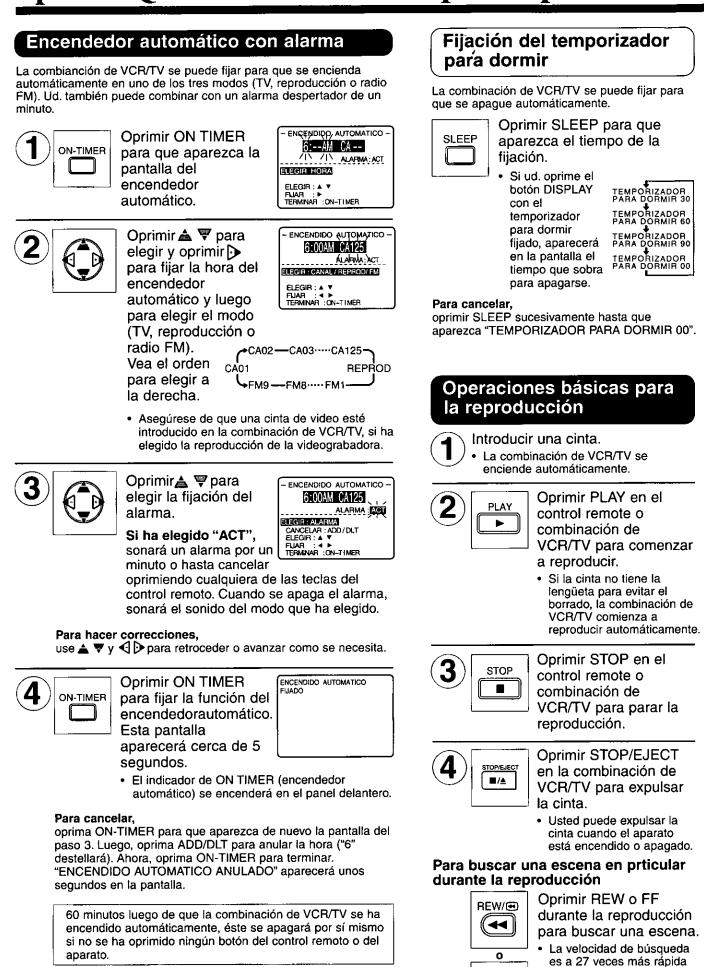
- 1 Oprima MENU para que parezca el MENU PRINCIPAL.
- 2 Oprima ▲ ♥ < ▷ para elegir "RELOJ". Luego, oprima MENU para que aparezca la pantalla de la FIJACION DEL RELOJ.
- 3 Oprima ▲ ♥ para elegir
 "FIJACION MANUAL", y luego ▷ para que aparezca la pantalla de la
 FIJACION DEL
 RELOJ.



4 Por favor continue con los pasos b y c de la instrucción anterior (Caso 2).

Operaciones para ver la TV	
	Oprimir POWER para encender la combinación de VCR/TV.
2 • • • • • • •	Elegir el canal usando ▲ ♥ o usando la teclas numéricas.
3	Oprimir para ajustar el nivel del volumen.
	

Spanish Quick Use Guide/Guía para rápida consulta

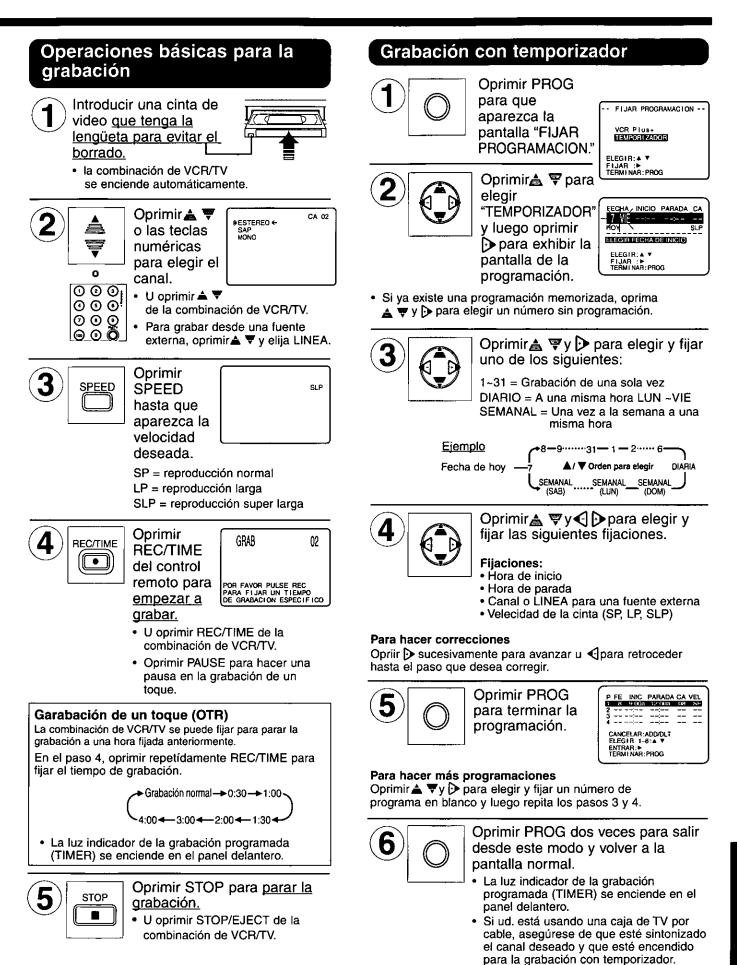


que la velocidad normal

para el mode SLP.

FF/🗩

 \blacktriangleright



Dos minutos antes de empezar la grabación, "GRABACION PROGRAMADA INICIARA ENSEGUIDA" aparecerá en la pantalla.

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

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



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