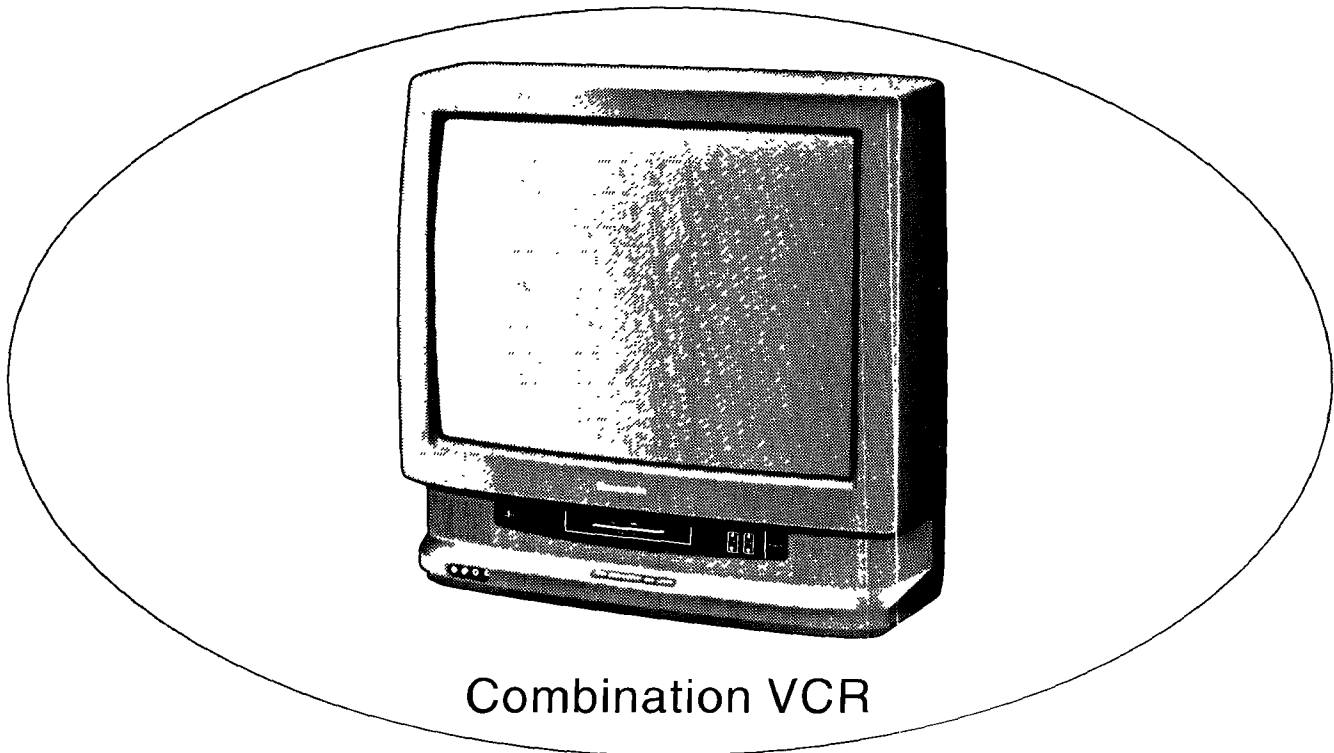


Thank you for choosing

Panasonic Omnivision **VHS**



Combination VCR

MODEL PV-M2765

Operating Instructions

Before attempting to connect, operate or adjust this product,
please read these instructions completely.
Spanish Quick Use Guide is included.
Guía para rápida consulta en español está incluido.

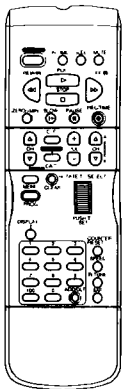
**Please Fold-Out
Front Cover Before
Combination VCR Setup**

Things You Should Know

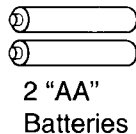
Unpacking Your Combination VCR

The accessories shown below are provided to help you use or set up your Combination VCR. Optional accessories are also listed.

Accessories



Remote Control
VSQS1412



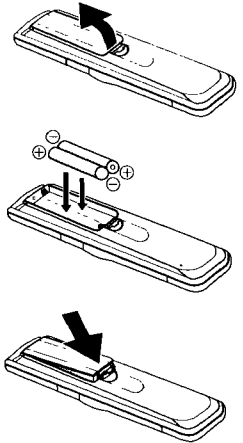
2 "AA"
Batteries

Optional Accessories

- 1/2" Video Cassette Tape

Load the batteries in the Remote Control

- 1** Lift off the lid after pressing in and up on the latch with your thumb nail or other narrow object.
- 2** Install two batteries as indicated inside the Battery Compartment.
- 3** Fit the lid's hinge piece into the indent on the case, and snap lid into place.



Battery replacement caution

- Do not mix old and new batteries. (Also, never mix alkaline with manganese batteries.)

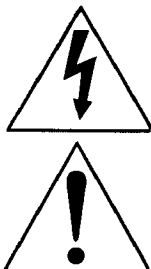
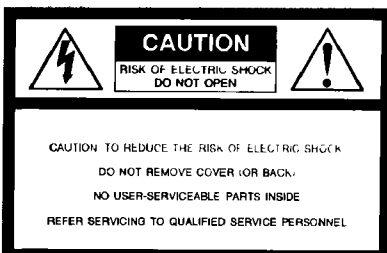
Safety Precautions

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 **VHS** 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 have been included. Therefore, it should be read carefully in order to avoid any problems.

Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information below. The serial number is on the tag located on the back of your Combination VCR. You'll want to keep this manual handy as your convenient Combination VCR information source.

Date of Purchase _____

Dealer Purchased From _____

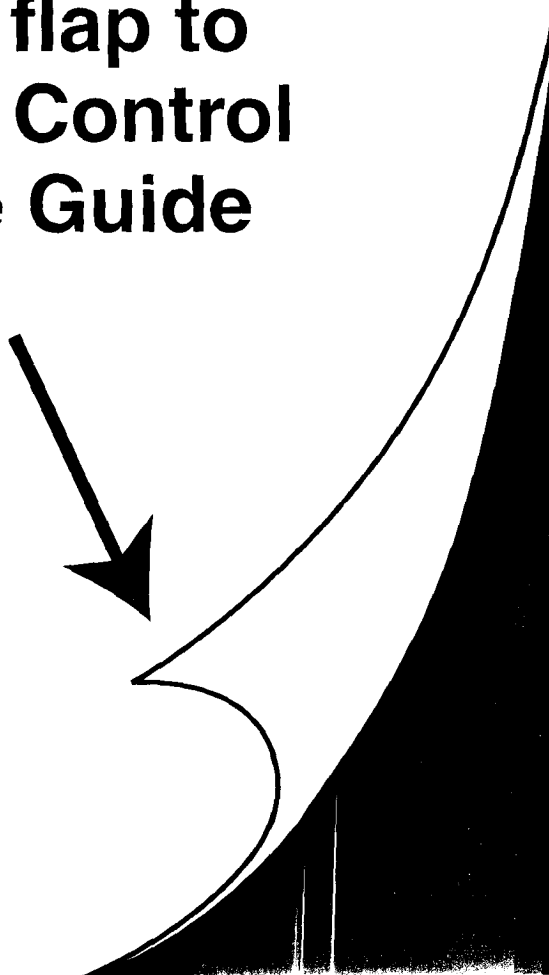
Dealer Address _____

Dealer Phone No. _____

Model No. **PV-M2765** _____

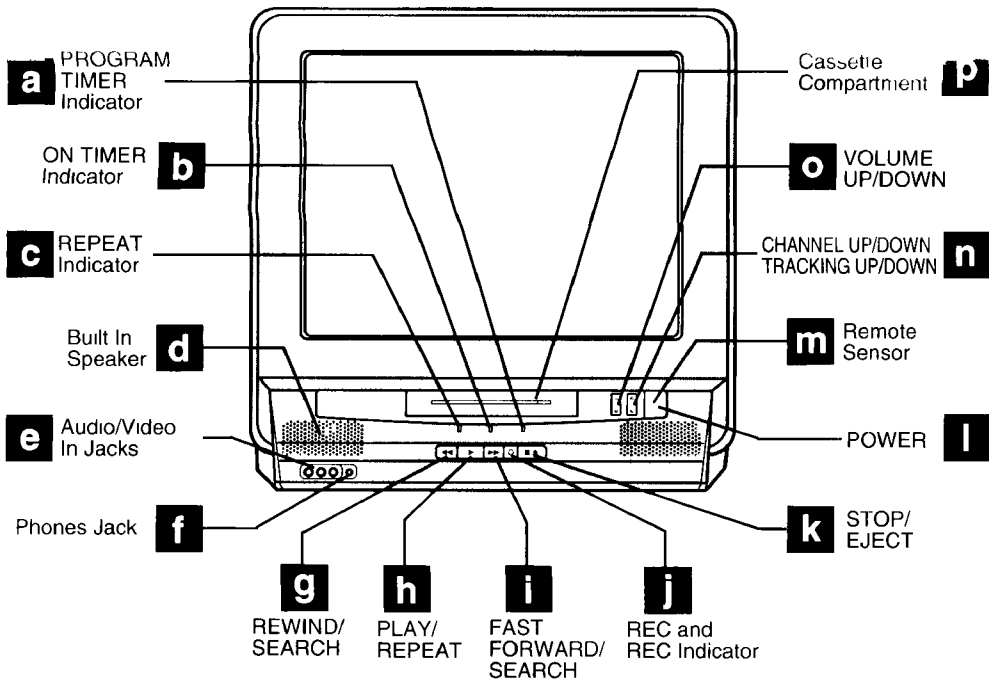
Serial No. _____

**Open this flap to
reveal the Control
Reference Guide**

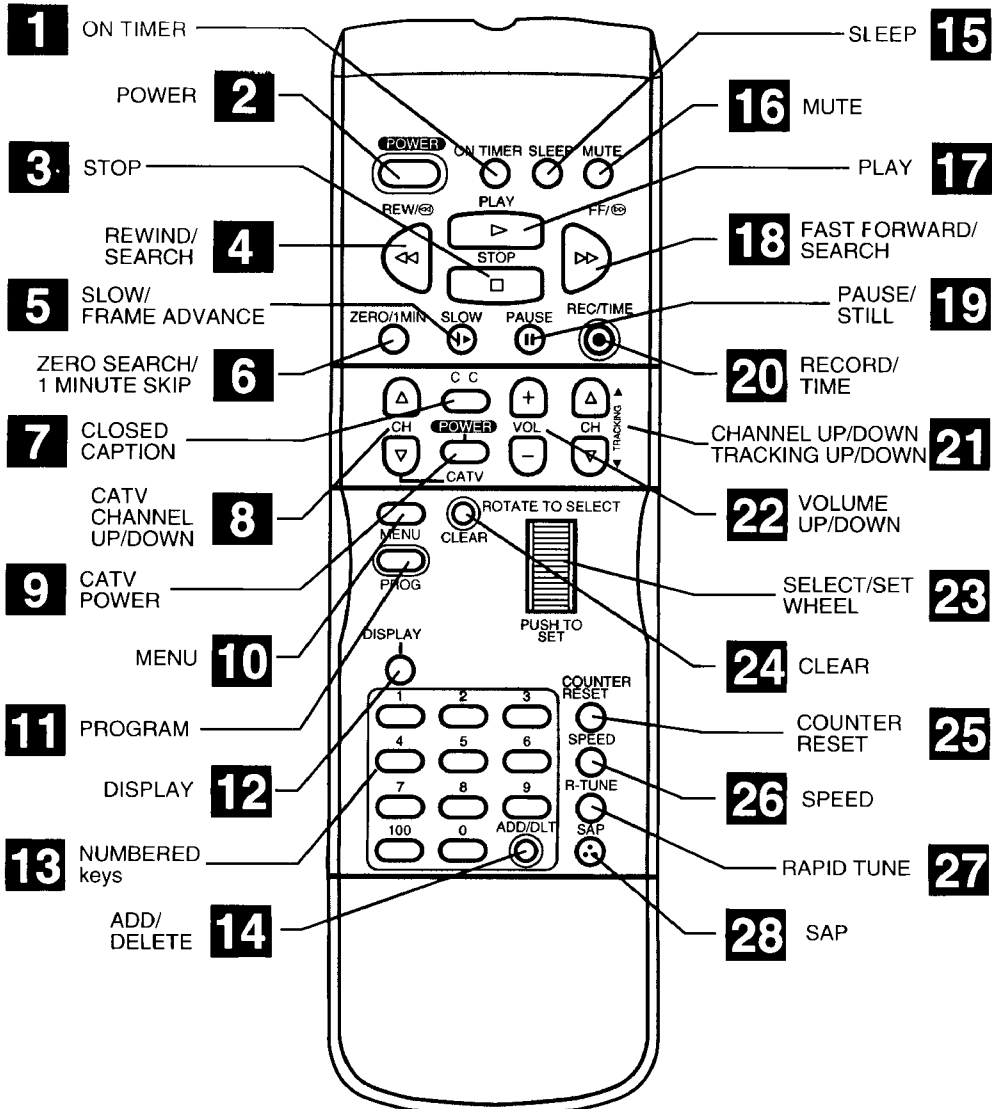


Control Reference Guide

Combination VCR



Remote Control



The numbers and letters above correspond with those used in the operating instructions. Please keep this page folded out when using the manual.

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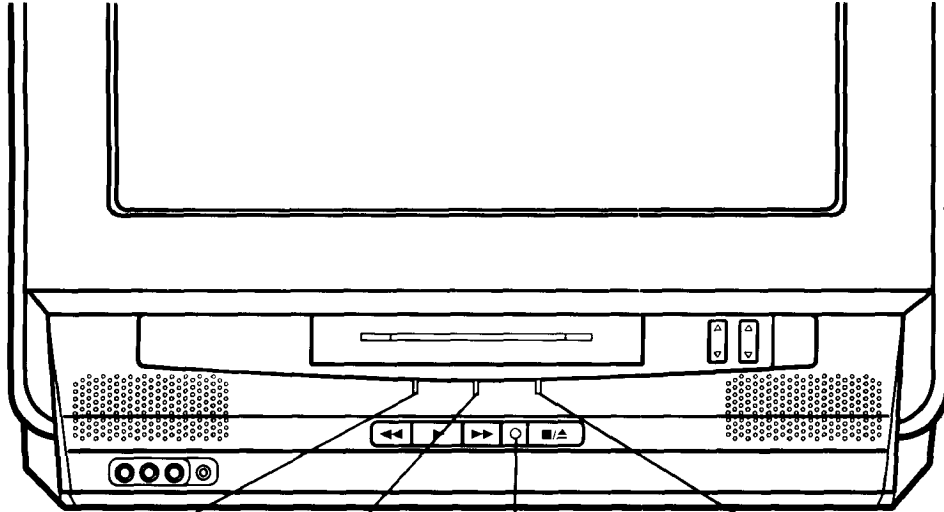
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Product Information

Indicators on the Front Panel



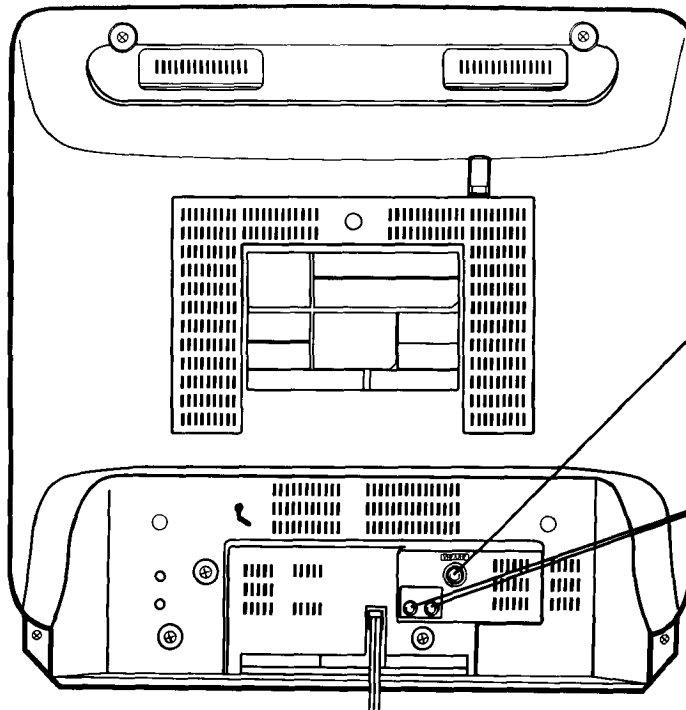
REPEAT Indicator
Lights when "REPEAT PLAY: ON" is selected and playback is in progress.

ON TIMER Indicator
Lights when the On Timer is set.

RECORD Indicator
Lights during recording.

PROGRAM TIMER Indicator
Lights when the Combination VCR is set for Timer Recording. It flashes when a Timer Recording has been set, but a tape has not been inserted or the clock is not set.

Rear View of the Combination VCR



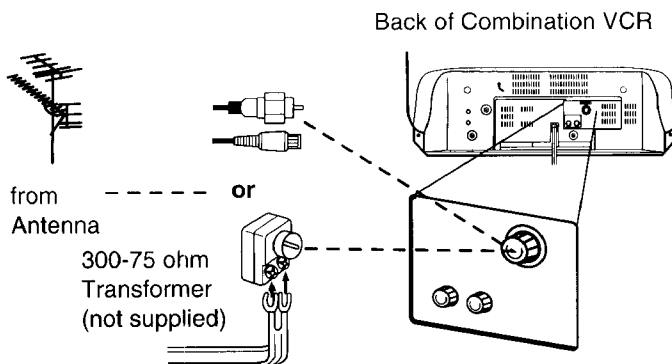
VHF/UHF Antenna Input Terminal
In from your Antenna or Cable.

AUDIO Output Connector (L/R)
For connection to the audio input connector of a stereo TV, another (combination) VCR or an audio stereo amp.

Basic and 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).



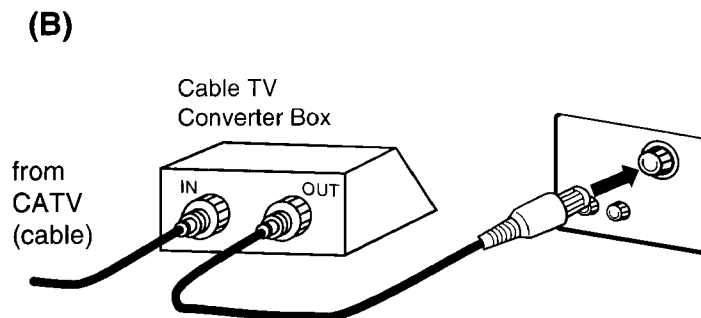
Cable Connections

(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. Scrambled channels may not be viewed or recorded with this connection.

(B) With a Converter/Descrambler Box

With this connection, you may record and view any channel including scrambled channels. Please note, however that channel selection must be made at the cable company converter 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 channel selector 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.

One Time Setup

Blue numbers/letters (ex. **1** **28**) correspond with fold-out Control Reference Guide (front page)



Check list before you begin

- Your Combination VCR is connected to an Antenna, or Cable system (see page 5).
- You've read over the Select/Set Wheel operation, below.

Using This Manual

- Fold out the Control Reference Guide (front page).
- Read Operating Instructions carefully and in the order presented.
- Use the blue reference numbers and letters to locate controls on the Control Reference Guide.

Using the Select/ Set Wheel



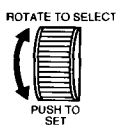
The SELECT/SET Wheel makes Combination VCR operation extremely easy. Since you will be using this control for many of your Combination VCR features, please take time to familiarize yourself with its simple operation.

There are basically two types of Wheel operation.

- Selecting items from an on-screen display.
- Entering information, such as setting the clock.

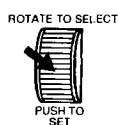
OPERATION

1 Rotate (up or down)



to make selection

2 Press (like a button)



to enter selection

- When the Combination VCR power is first turned on, the channel auto set and set clock screens appear automatically.

Select On-Screen Language Place Channels in Memory Auto Clock Set/ Manual Clock Set

Press  **21** (or **n**)

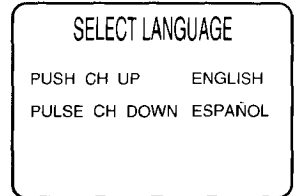
Up or down for on-screen displays in English or Spanish.

1

- If you choose the wrong language, please see the "Reset all Combination VCR Memory Functions" section on page 8.

Oprimir  **21** (or **n**)

hacia arriba o abajo para la exhibición en inglés o español.

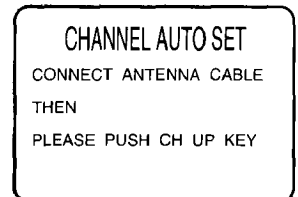


2

Press  **21** (or **n**) to start Channel Auto Set.

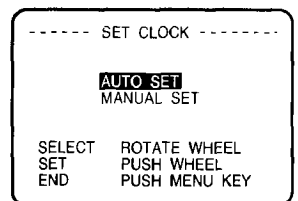
When channel auto set is finished, the following on-screen displays appear in sequence:

- "CH AUTO SET COMPLETED"
- "PLEASE SET CLOCK BY PUSHING MENU KEY"




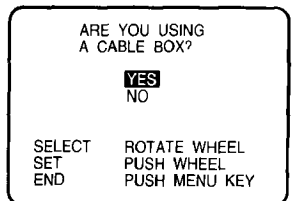
3

Press  **10** to display the SET CLOCK screen.



4

Use  **23** to first, select AUTO SET and then, to select YES if you are using a cable box, or NO if you are not.

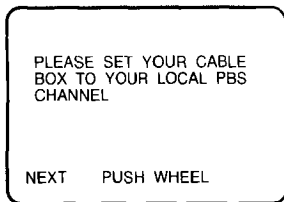


- By repeatedly pressing the Wheel, you can skip over already set items as desired.

Continued on the next page...

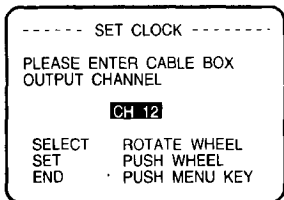
If You Selected YES in Step 4

Set your cable box to PBS station and then, press the Wheel to go to the next step.




Now, use  **23**

to select and enter the cable box output channel number. (the channel you tune the Combination VCR to in order to watch cable stations.)

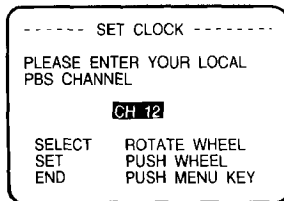


5

If You Selected NO in Step 4

Use  **23**

to select and enter your PBS channel number.



These on-screen displays will appear in sequence.

- AUTO CLOCK SET PROCEEDING
- AUTO CLOCK SET COMPLETED
- The lowest numbered channel

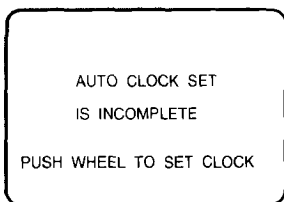


NOTE:

This screen appears if:

- An entry error was made.
- Auto Clock Set is not available for the PBS channel selected.

Try entering another PBS channel.




If Auto Clock Set cannot be performed, please set the clock manually as described at right.

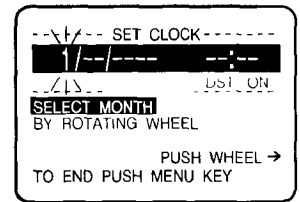
Helpful Note

- It takes about 10 seconds for the Combination VCR to determine whether or not Auto Clock Set is available. Then, depending on your local broadcasting company, it takes from about 1 minutes to 10 minutes to set the clock. If you would rather not wait, please press the STOP button and set the clock manually.

Manual Clock Set

Press  **23**

to display the set clock screen.



Then, use  **23**

to select and enter the month, date, year, time and D.S.T. (Daylight Saving Time).

- The day of the week appears automatically.
- "DST: ON" automatically adjusts for daylight saving time. (See page 26 for details.)

To Make Corrections, press the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

Now, press  **10** twice to start the clock and exit this mode.

See page 8 to change or re-enter items in this setup.

- You will find out how to:
- set or reset the clock.
 - change the on-screen display language.
 - replace channels in memory.
 - add or delete a channel from memory.

Change or Re-enter One Time Setup Items

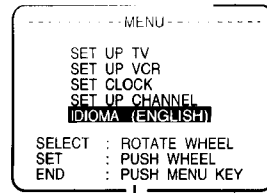
Blue numbers/letters (ex. **1** ~ **28**) correspond with fold-out Control Reference Guide (front page).

Changing the OSD Language

Press **10** to display the menu.

Then, use **23** to select IDIOMA or LANGUAGE.
 • "IDIOMA" is Spanish for "language."

Now, press **10** to leave this screen.



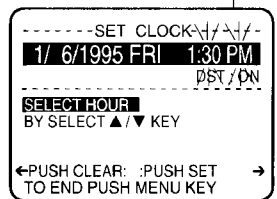
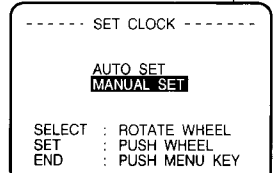
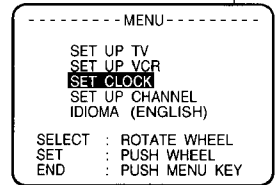
Set or Reset the Clock

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

Press **10** to display the menu.

Then, use **23** to:
 (A) Select SET CLOCK.
 (B) Select MANUAL SET.
 (C) Set the date, time, and D.S.T. (Daylight Saving Time).

Now, press **10** twice to start the clock and exit this mode.



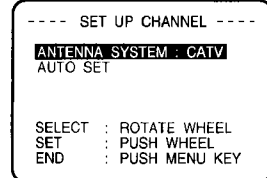
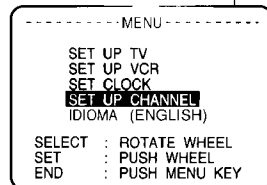
Replace Channels in Memory

Example, if you have cable installed, etc.

Press **10** to select the menu.

Then, use **23** to first, select SET UP CHANNEL from the menu and then to select your antenna system (TV or CATV).

Now, use **23** to select and start AUTO SET.



Add or Delete a Channel

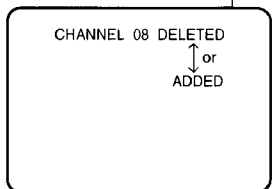
Press **14** or use the NUMBERED keys to select a channel to add or delete.

The NUMBERED keys select all channels regardless of whether they have a signal or not.

The CH UP/ DOWN key selects only those channels which are in the Combination VCR's channel memory.

Then, press **14** to add or delete it.

To select a deleted channel, use the NUMBERED keys.



Reset all Combination VCR Memory Functions

This operation is convenient 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.

Press **1** to turn the Combination VCR on.

Then, press and hold **h** and **g** (For more than 5 seconds)

- The power will shut off.

Now, complete the One Time Setup section on pages 6-7.

Helpful Notes

- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.
- Make entries within 5 minutes, or the Combination VCR exits the Set Clock screen.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your Combination VCR is hooked up.
- Channel Auto Set is not accessible when a recording is in progress. If it is a timer recording, Set Clock is also not accessible.

On Screen Displays (OSD)

Function & Channel Display

Whenever a function button is pressed (PLAY, FF, etc.) or the channel is changed, a 4 second OSD will appear first in large and then small characters.

FF

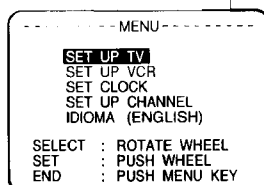
- When a recording is started, both REC and the channel will appear together.

Menu Screen

Press  **10** to display the menu.

ROTATE TO SELECT

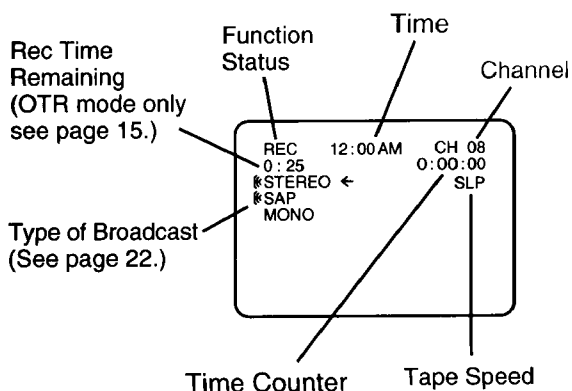
Then, use  **23** to make your selection.
(See page 6 for details.)



- To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.

VCR Status & Clock Display

Press  **12** to display the overlay shown below.



Press  **12** again to remove this overlay.

Warning and Instruction

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

If no active channels are found for CHANNEL MEMORY...

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

If a Timer Program was not completed before exiting the Program mode...

PROGRAM IS INCOMPLETE

If you press REC on the remote control or REC and PLAY on the Combination VCR, and a cassette is inserted with no record tab...

CHECK CASSETTE
RECORD TAB

If you press STOP during a Timer Recording...

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

If you press PLAY, FF, REW, or REC on the remote control or if you press REC and PLAY, FF, PLAY, or REW on the Combination VCR without a cassette inserted...

NO CASSETTE
PLEASE INSERT A CASSETTE

If you attempt to set or review a Timer Recording or set the On Timer and the Clock is not set...

PLEASE SET CLOCK
BEFORE PROGRAMMING

Two minutes before a Timer Recording is about to begin...

PLEASE PREPARE
FOR TIMER REC

Blank Tape Indication

If a blank section of tape is encountered in the play mode or the channel you select has no broadcast, the screen will change to a solid blue field. The screen will remain blue until a recorded signal is again detected or an active channel is selected.

TV Operation

Blue numbers/letters (ex. **1** **23**) correspond with fold-out Control Reference Guide (front page)



Check list before you begin

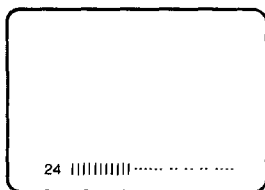
- All connections are made (see page 5).
- Your Combination VCR is plugged in.

Main Operation

1 Press  **2** (or **1**) to turn the Combination VCR on.

2 Then, select a channel using the CHANNEL UP/DOWN or NUMBERED keys.


3 Press  **22** (or ) to adjust the volume level.



Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first press the 100 key and then enter the remaining two digits. For example, for channel 125: Press NUMBERED keys 100-2-5.


Rapid Tune

Press  **27** to display the last channel you were watching.


Previous Channel	Present Channel
CH08	←→ CH10

- When selecting channels with the CH UP/DOWN key, the channels must be displayed for at least 4 seconds in order for the Combination VCR to recognize them as a new selection.


Audio Mute

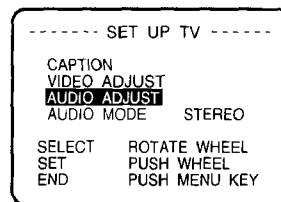
Press  **16** to instantly mute the sound. Press again, to restore the previous sound level.

Phones

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

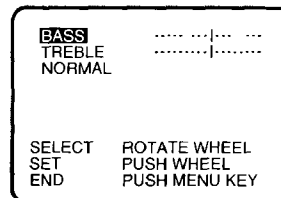
Audio Adjustment


1 Press  **10** to display the menu screen.



2 Use  **23** to first, select SET UP TV and then, to select AUDIO ADJUST.

3 Use  **23** to select and display the desired audio adjust overlay. (See below.)



4 Use  **23** to adjust and set the control.
• Repeat steps 3 and 4 as necessary.

Press  **10** twice

5 to exit this mode.
• If no button is pressed within 5 minutes, the audio adjust overlay disappears.
• Adjustment scale and setting indicator numbers are displayed to assist you.

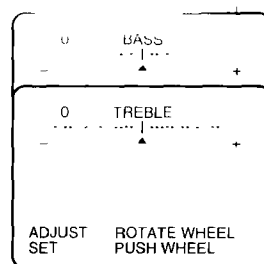
Audio Adjustments

BASS Control

To adjust the intensity of low frequency sound.

TREBLE Control

To adjust the intensity of high frequency sound.



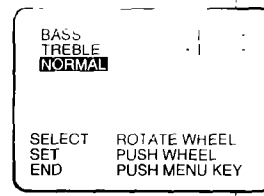
- The levels set here do not affect other audio equipment when connected to the Audio Output L/R Connector.

To Reset Audio Controls to the Factory Setting

In step 3 above,

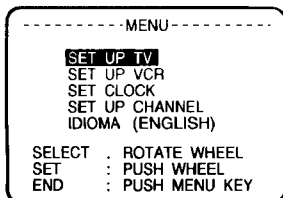
Use  **23**

to select and set NORMAL. All controls return to factory settings.




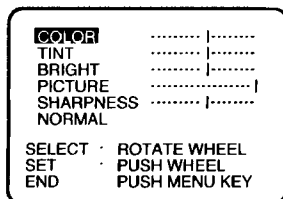
Picture Adjustment


1 Press  **10** to display the menu screen.



2 Use  **23** to first, select SET UP TV and then, to select VIDEO ADJUST.

3 Use  **23** to select and display the desired video adjust overlay. (See right.)



4 Use  **23** to adjust and set the control.

- Repeat steps 3 and 4 as necessary.


Press  **10** twice

5 to exit this mode.

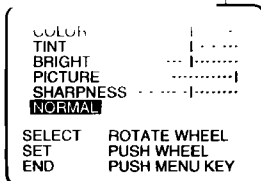
- If no button is pressed within 5 minutes, the video adjust overlay disappears.
- Adjustment scale and setting indicator numbers are displayed to assist you.

To Reset Picture Controls to the Factory Setting

In step 3 above,

Use  **23**

to select and set NORMAL. All controls return to factory settings.



Picture Adjustments

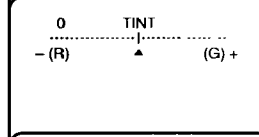
COLOR Control

To adjust the intensity of the colors.



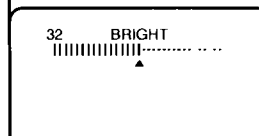
TINT Control

To adjust for the most natural flesh tones.



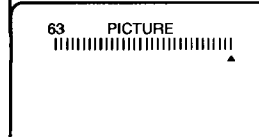
BRIGHT Control

To adjust the brightness of the picture.



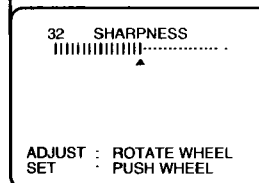
PICTURE Control

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.



TV Timer Features

Blue numbers/letters (ex. **1** **23**) correspond with fold-out Control Reference Guide (front page).


✓ Check list before you begin


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

Set the On Timer

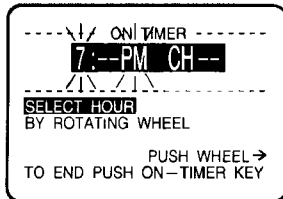
The Combination VCR can be set for auto power on.

- 1** Press  **1**
The ON TIMER display appears on-screen.

Use  **23**
to set the ON time.

Then, use  **23**


- 2** to select either a channel number for TV mode or "PLAY" for VCR Playback mode when the Combination VCR comes on.



- Make sure a tape is inserted if VCR Playback mode is selected.

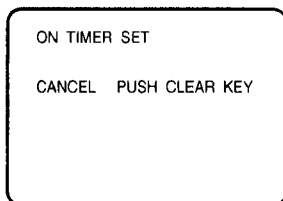
To make corrections,

press the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

- 3** Press  **1**
to set the ON TIMER function.

This screen will appear for about 5 seconds.

- The ON TIMER indicator lights on the front panel.



To cancel, press the CLEAR button while above screen is displayed.
"ON TIMER END" will appear for about 5 seconds on-screen.

On Timer Feature Note:

- 60 minutes after the Combination VCR turns itself on, it will turn itself back off unless any remote or Combination VCR button is pressed.

Set the Sleep Timer

The Combination VCR can be set for auto power off.

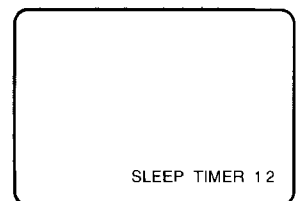
Press  **15**

to display the desired sleep timer.

- Each press of the SLEEP button will change the overlay as follows:

SLEEP TIMER 30
↓
SLEEP TIMER 60
↓
SLEEP TIMER 90
↓
SLEEP TIMER 00

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




To cancel, press SLEEP button until "SLEEP TIMER 00" appears.

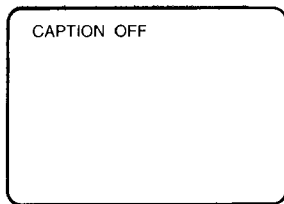
Closed Caption System

✓ Check list before you begin

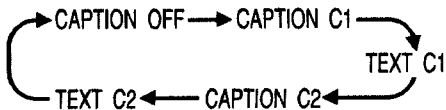
- All connections are made (see page 5).
- Your Combination VCR is plugged in.

This system not only allows the hearing impaired to enjoy selected programs, but also makes valuable information from your TV stations available to you.

Press  **7** to select the desired caption mode (see below). Selected mode is displayed as an overlay on the screen.



Each press of the CC button will change the caption mode as follows:



- The overlay will disappear in 5 seconds.
- You may also select the caption mode from the menu screen. Press MENU. Use WHEEL to select SET UP TV and then CAPTION. Finally choose the desired caption mode with WHEEL.

Closed Caption Modes to Choose From

Caption Mode: CAP C1 or C2

A narration of selected TV programs will be displayed on the screen. Check your TV program listings for CC (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. This text block will remain on the screen until you cancel this mode.

Caption Mode: OFF

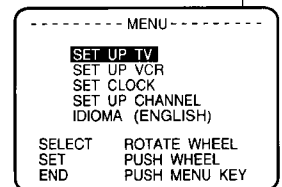
Narration will not appear on the screen even if a closed caption or text broadcast is received.


- 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.

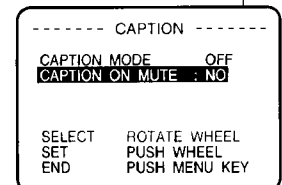
Caption On Mute Feature


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

Press  **10** to display the menu.



Then, use  **23** to first, select SET UP TV and then, to select the CAPTION screen.

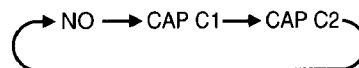


Next, rotate  **23** to select the CAPTION ON MUTE mode.

- Make sure CAPTION MODE is "OFF."

Now, press  **23** to select the desired caption mode.

Each press of the Wheel will change the display as shown below:



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 follow the steps listed above left.

Play Back a Tape

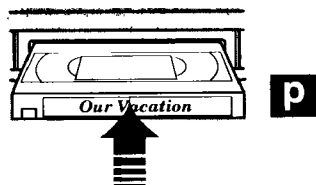
Playback Features

Blue numbers/letters (ex. **1** ~ **28**) correspond with fold-out Control Reference Guide (front page).

Check list before you begin

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

1 Insert a cassette



- Combination VCR power comes on automatically. Playback begins if cassette has no record tab.

2 Press **17** (or **h**) to start playback if necessary.

Press  **4** (or **9**)

3 or **18** (or **i**) to quickly locate a scene during playback.

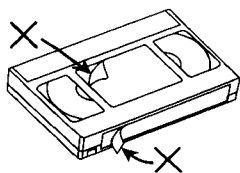
- SP mode tapes have a search speed of 9 times and SLP mode tapes 27 times the normal speed.
- Some noise bars will appear during search.

Press  **3** (or **k**) to stop playback.

4 Then, press **k** on the Combination VCR to eject the cassette.

Caution:

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



Special Effects During Playback

These features work best in SP or SLP mode. Sound will be muted.

Slow Motion Playback

Press  **5**

Then, press  **17** (or **h**) to release.

Still (Freeze) Frame Picture

Press  **19**

to freeze and release the picture.

Frame by Frame Advance

Press repeatedly

or hold down  **5**

in Still mode, to advance the still picture one frame at a time. Press PAUSE or PLAY to release

Intelligent Search

If after a Rew or FF search is done the search is re-started within 5 seconds, the search speed decreases (SP mode: 5 times, SLP mode: 9 times) for a duration of 8 sec. Then normal search speed resumes.

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 to reduce picture noise.

Press  **21** (or **n**)

until the picture clears up.

To return to Auto tracking, eject and re-insert the tape.

V-Lock Control

Use during Still mode to reduce jitter.

Press  **21** (or **n**)

until the picture is stabilized.

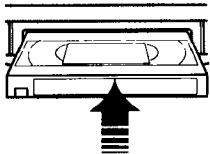
PanaBlack™ Picture Tube

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


Record On a Tape

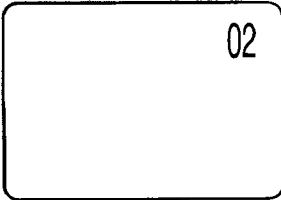
✓ Check list before you begin

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


1 Insert a cassette with record tab.  **p**

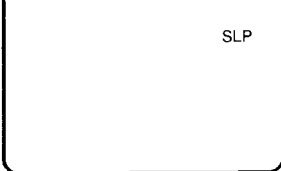
- Combination VCR power comes on automatically.


2 Press  **21** (or **n**) to select a channel to be recorded.

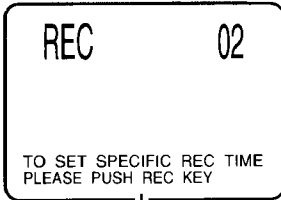


- To record from an outside source, see "Selecting the Input Mode" on this page.

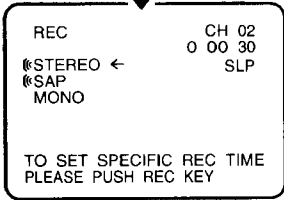
3 Press  **26** until the desired speed appears on-screen.




Press  **20** (or **h** and **j**) to start recording.



After 2 seconds



- The on-screen display changes as shown. Press the REC/TIME button again if you want to set a recording length. (See the "One Touch Recording" section on this page for more details.)

5 Press  **19** to pause or resume the recording.

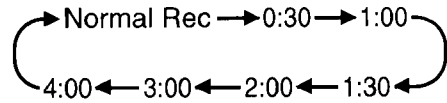
6 Press  **3** (or **k**) to stop recording.

One Touch Recording (OTR)

You can set up the Combination VCR to turn itself off at a preset time making it a one touch timer recording.


In step 4, Continue to press  **20** (or **j**)


to set the recording length. Each press will change the time as shown in the diagram below.



Selecting the Input Mode

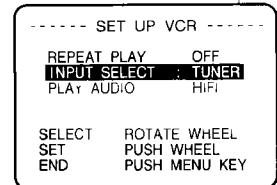
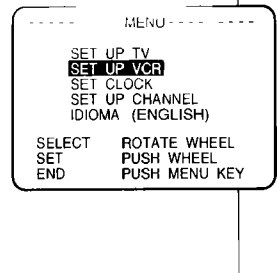
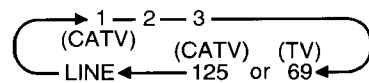
Press  **10** to display the menu screen.

Next, use  **23** to first, select SET UP VCR from the menu and then, select INPUT SELECT.

Then, press  **23** to select "TUNER" or "LINE".

Now, press  **10** twice to exit this mode.

- You can also select LINE using the CH UP/DOWN. The numbers will change in the order shown below.



Basic VCR Operation

Helpful Notes

- While it is possible to change the tape speed when you are recording, there will be some distortion on the tape where the change occurred.
- Press PAUSE to pause normal recordings in progress. One Touch Recordings can go into Pause mode.
- After the Combination VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.
- The recording time remaining will appear when the DISPLAY button is pressed during OTR mode (See page 9).

Set Up a Timer Recording

- Record a program up to one month away
- Record daily, Monday through Friday.
- Record weekly at the same time.

Blue numbers/letters (ex. **1** ~ **23**) correspond with fold-out Control Reference Guide (front page).



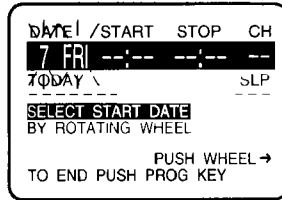
Check list before you begin

- 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.

1

Press **11** for program mode.

- If a program has already been set, select a blank program number with the Wheel.

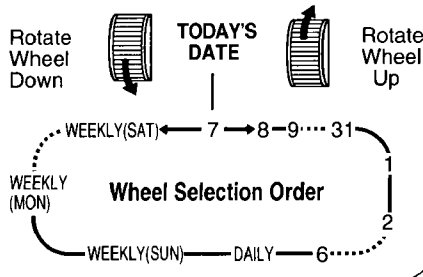


Rotate and press **23**

to select and enter the date. (See example, below)

2

Setting the Date



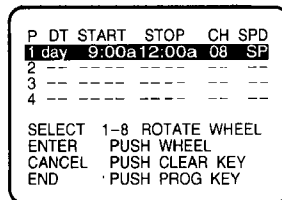
Then, select and enter each program item (start time, stop time, etc.) as it appears on-screen.

To make corrections:

Press the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

Press **11** to finish the program.

Then, set the next program by repeating steps 2 and 3.



3

Or press **11** to exit the programming mode and set the Timer.

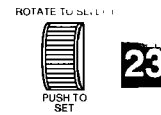
- The PROGRAM TIMER indicator lights on the front panel.

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

Daily/Weekly Programming

In step 2,

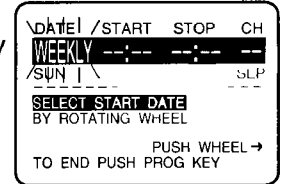
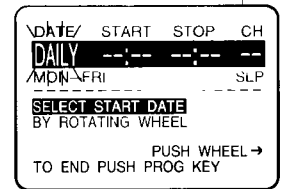
Use




to enter DAILY or WEEKLY in place of the Date.

Weekly recordings require that you enter the day of the week. See the "Wheel Selection Order" in step 2 on this page.

Then, continue with programming.



Cancel a Timer Recording in Progress

Hold  **3**
(or **k**) down
for a few seconds to cancel
the Timer Recording.

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

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

Clear Program Contents

(Recording is not in progress.)

Press  **11**
to display all programs.

Next, rotate  **23**
to select the desired
program number.

Then, press  **24**
to clear the program.

Now, press  **11**
to return to normal TV.

P	DT	START	STOP	CH	SPD
1	day	9:00a	12:00a	08	SLP
2	8	10:00p	12:00p	125	SLP
3	10	8:00p	9:00p	10	SP
4	SU	9:00p	10:00p	L	SLP

SELECT 1-8: ROTATE WHEEL
ENTER : PUSH WHEEL
CANCEL : PUSH CLEAR KEY
END : PUSH PROG KEY


P	DT	START	STOP	CH	SPD
1					
2	8	10:00p	12:00p	125	SLP
3	10	8:00p	9:00p	10	SP
4	SU	9:00p	10:00p	L	SLP

SELECT 1-8: ROTATE WHEEL
ENTER : PUSH WHEEL
END : PUSH PROG KEY

Review and/or Replace Program Contents

(Recording is not in progress.)

Press  **11**
to display all currently set
programs.

Then, use  **23**
to select and enter the
desired program.
Review or replace the
program contents.

Now, press  **11**
to return to normal TV.

P	DT	START	STOP	CH	SPD
1					
2	8	10:00p	12:00p	125	SLP
3	10	8:00p	9:00p	10	SP
4	SU	9:00p	10:00p	L	SLP

SELECT 1-8: ROTATE WHEEL
ENTER : PUSH WHEEL
CANCEL : PUSH CLEAR KEY
END : PUSH PROG KEY

DATE	/START	STOP	CH
8 SAT	10:00P	12:00P	125
/V/V\			SLP

SELECT START DATE
BY ROTATING WHEEL

←PUSH CLEAR : PUSH WHEEL→
TO END PUSH PROG KEY

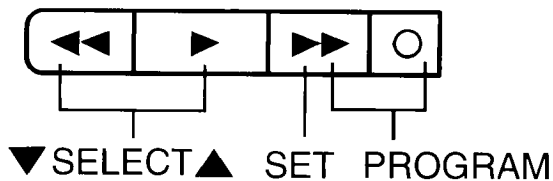
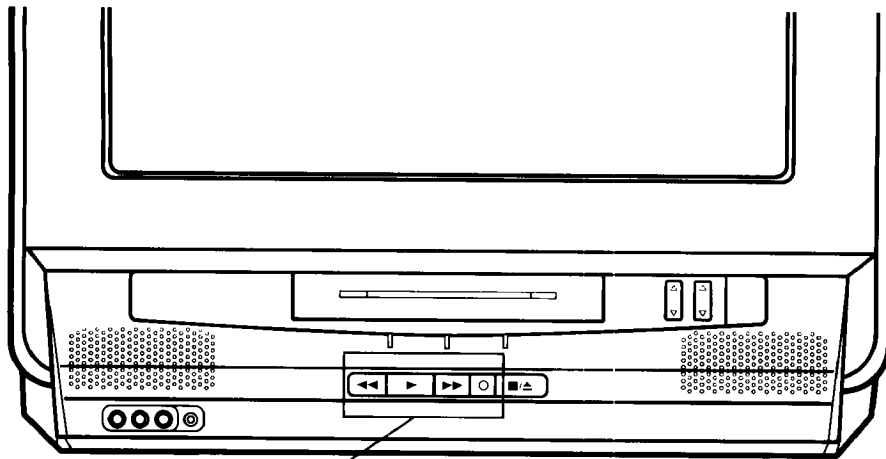
Helpful Notes

- Another way to review program contents is to press the PROGRAM button while a timer recording is in progress. Program in progress is flashing.
- Check your times carefully to avoid overlapping.
- Two minutes before the Timer Recording starts, "PLEASE PREPARE FOR TIMER REC" appears on-screen if turned on. If the record tab is missing the tape ejects and the PROGRAM TIMER indicator flashes.
- If there is a power interruption of more than about one minute, the recording can not be performed or continue.
- If "PROGRAM IS INCOMPLETE" appears, check all entries carefully and make any corrections. Then, continue with step 3 on previous page.
- When recording from an external source, rotate the wheel until "L" appears instead of the Channel.

Setting a Timer Recording at the Unit

Blue numbers/letters (ex. **1** **2B**) correspond with fold-out Control Reference Guide (front page).

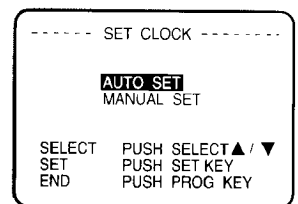
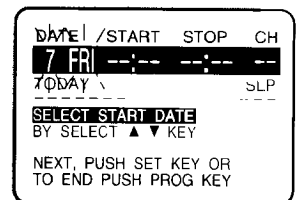
A timer recording can be set up using the buttons on the Combination VCR. If necessary, the clock can also be set.



1

Hold down  and press  to enter the program mode.



- If the clock is not set, pressing these buttons will display the SET CLOCK screen. In this case, set the clock according to the OSD's instructions and then set a timer recording.



Helpful Notes

- It is not possible to clear a timer program using the Combination VCR buttons. Please use the Remote Control.
- Press SET (FF) repeatedly to move to a particular item for setting or correction.
- Once the Combination VCR is in the Program mode, the PLAY, REC, FF, and REW buttons on the Combination VCR are non-functional.

2

Press  (for up) or  (for down) to make your selection.

Then press  to set and move on to the next item.

to set and move on to the next item.

When the program is completed,

press  and  (at the same time) to display all program contents.

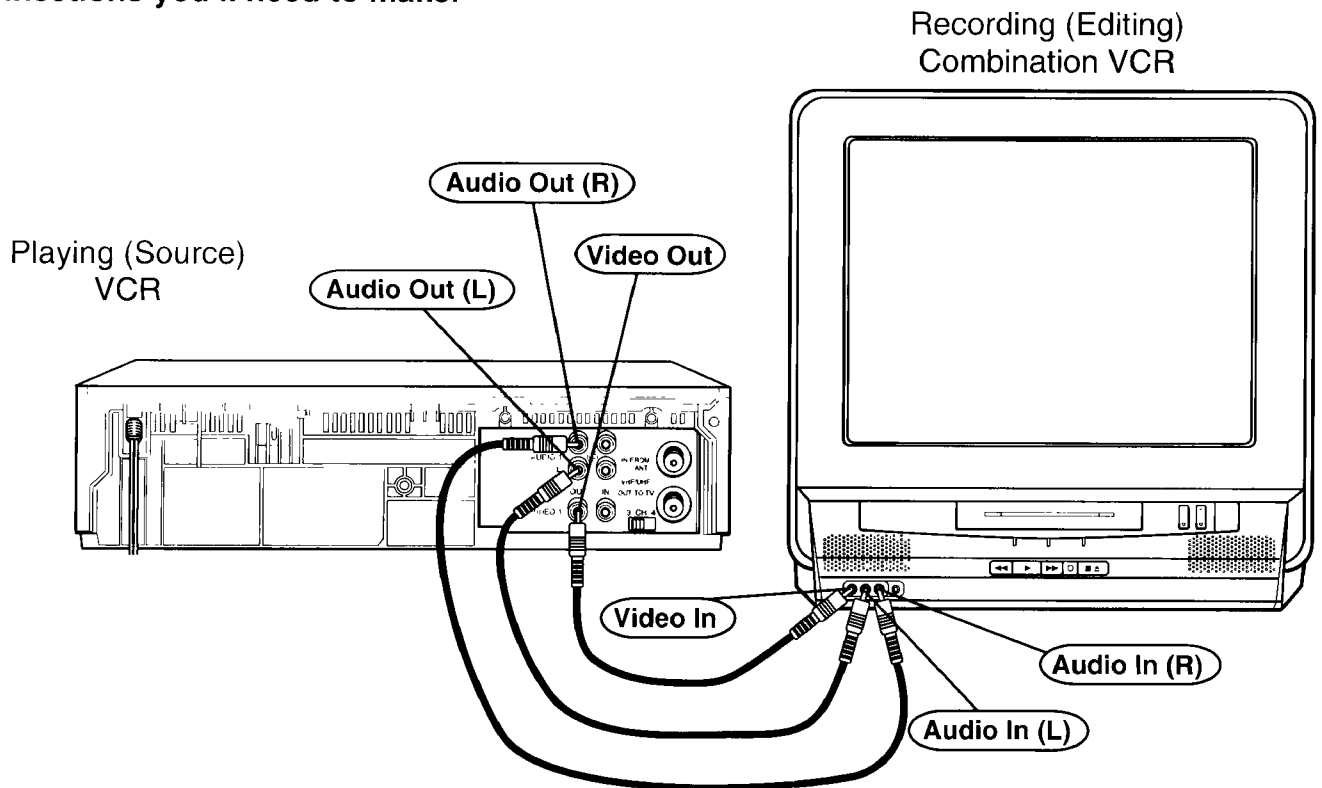
3

Then, set the next program by repeating steps 2 and 3.

Or, press  and  again to return to the normal screen.

Copy Your Tapes (Dubbing)

Connections you'll need to make.



- 1** Insert a pre-recorded tape into the Playing (source) VCR.
Then, insert a blank tape with record tab into the Recording (editing) Combination VCR.
- 2** Select **"LINE"** as the input on the Recording Combination VCR.
 - If you are using this Combination VCR as the Recording unit, see "Selecting the Input Mode" section on page 15.
- 3** Press **PLAY** on the playing VCR.
Then, press PAUSE when the tape reaches the point you want to start copying.
- 4** Press **REC and PLAY** at the same time on the recording Combination VCR.
Then, press PAUSE on the remote immediately.
- 5** Press **PAUSE** on both units (at the same time), to begin copying.
Then, press STOP on both units to stop copying.

Caution:

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

Helpful Note


- By using the **PAUSE** button (on the remote control of the Recording unit) while copying is in progress, you can edit out unwanted parts of the original recording.

Cable Box Universal Remote Control Operation

Blue numbers/letters (ex **1** **28**) correspond with fold-out Control Reference Guide (front page).

The Remote Control may be set up to control some of the functions on your Cable Box.

1 Find your Cable Box Brand Code Number from the chart at right.

2 Hold down  **9** (On this remote.) and enter your Cable Box brand code number using the NUMBERED keys.

Try each of the following functions with this remote control. Some Cable Box brands require you to turn on the power manually.

3

- POWER ON/OFF
- CHANNEL UP/DOWN

• Depending on your Cable Box model, not all functions listed may be controlled by this remote.

Helpful Note

- Please repeat the Cable Box Set Up procedure when you replace the remote's batteries.
- Due to changes in infra-red commands used by some manufacturers, some Cable Box brands are listed more than once. If your Cable Box does not respond with the first code, please try entering the next code.
- The remote control is designed to control the brands listed. However, it will not operate all Cable Boxes made by these manufacturers.
If you get no results, your particular product brand cannot be controlled by this remote.

Cable Box Code Numbers

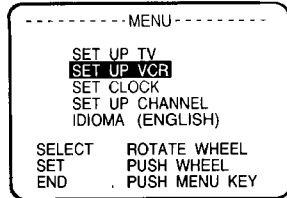
Archer	01, 29, 44, 88, 91
Cableview	4, 30, 42, 44, 52, 63, 85, 88
Citizen	4, 30, 42, 44, 52, 63, 85, 88
Curtis	08, 09, 56, 61, 87, 90
Diamond	01, 29, 44, 88, 91
Drake	37
Eagle	13, 20, 22, 26, 40, 58, 62, 98
Eastern	28
GC Brand	4, 30, 42, 44, 52, 63, 85, 88
Gemini	04, 85
General Electric	57
General Instruments	
.....	01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95
Hamlin	14, 15, 28, 41, 97
Jerrold	
.....	01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95
Macom, Hitachi	31, 79
Magnavox	25, 26
Matsushita	16, 17
Movietime	32, 38, 40
Movietime	29, 32, 39, 42, 44, 88
NSC	32, 38, 40
Oak	46
Panasonic	16, 17
Philips	13, 20, 23, 24, 96
Pioneer	05, 06, 78
Pulser	4, 30, 42, 44, 52, 63, 85, 88
RCA	16, 17
Realistic	44, 88
Regal	14, 41
Regency	28
Rembrandt	29, 32, 39, 42, 44, 88
Samsung	32, 40, 42, 78, 94
Scientific Atlanta	08, 09, 56, 61, 87, 90
Sheritech	27
SL Marx	32, 40, 42, 78, 94
Sprucer	16, 17
Stargate	32, 40, 42, 78, 94
Stargate	4, 30, 42, 44, 52, 63, 85, 88
Sylvania	19
Telecaption	77, 92
Televue	32, 40, 42, 78, 94
Texscan	18, 19
Tocom	01, 33, 34, 42, 48, 49, 91
Toshiba	36
Unika	01, 29, 44, 88, 91
Universal	42, 43, 44, 52, 63, 88
Viewstar	13, 20, 22, 26, 40, 58, 62, 98
Videoway	07, 23, 50
Zenith	07, 23, 50


Tape Operation

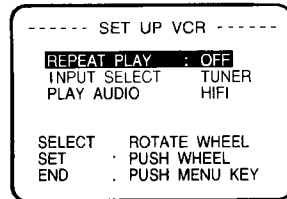
Repeat Play

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

1 Press  **10** to display the menu.



Use  **23** to first, select SET UP VCR from the menu and then, to select REPEAT PLAY : ON.




2

- 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.

3 Press  **10** twice to exit this screen.

To Cancel Repeat Play, repeat steps 1 and 2 and select REPEAT PLAY : "OFF". Then, press MENU to exit.

NOTE:

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


One Minute Skip

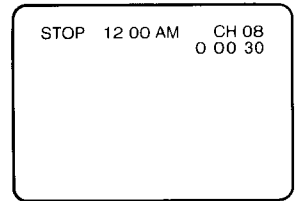
With this feature, you can skip over commercials recorded on a tape.


Press  **6** in Play mode.

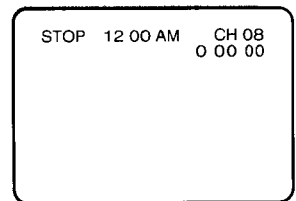
The Combination VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.


Zero Search

1 Press  **12** to display the Time Counter overlay.



2 Press  **25** to reset the Time Counter to 0:00:00 at whatever point you wish on the tape.



3 Press  **6** in Stop mode. The Combination VCR will go into FF or REW mode. The tape will stop at the last point the Time Counter was set to 0:00:00.

Auto Operation Functions

Auto Playback

When a tape is inserted, the power comes on. If the record tab* is removed, playback begins.

Auto Rewind

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

Playback Auto Eject

After 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 the POWER button is pressed during rewind, rewind will be completed even though the Combination VCR turn off.

Eject Cassette

A cassette may be ejected with power on or off.

* For record tab information, see page 5.

MTS Broadcast/VHS Hi-Fi Stereo System

Blue numbers/letters (ex. **1** ~ **28**) correspond with fold-out Control Reference Guide (front page).

Definition of Terms

- MTS:** Multi-channel Television Sound broadcast. SAP (second audio program) broadcast may be received at the same time.
- SAP:** Second Audio Program broadcast. A separate audio program, usually broadcast in a second language as well as the main language.
- MONO:** Normal sound on the liner, monaural track.

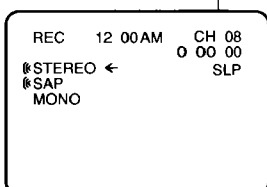
Type of Broadcasts

Press  **12**

to display the broadcast signal currently being received. (The Signal is indicated with an "(((" mark while the selected audio mode is indicated with an arrow.)

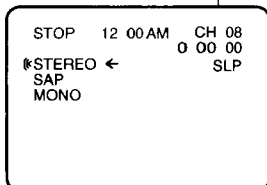
MTS Stereo and SAP broadcast

Select either STEREO or SAP.



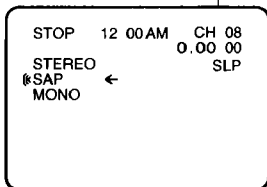
MTS Stereo broadcast

Select STEREO.



SAP broadcast

Select SAP.



MONO broadcast

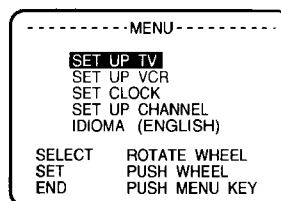
"(((" mark will not be displayed, even if STEREO or SAP is selected the sound will be monaural.

- The STEREO, SAP and MONO indicators disappear in 5 seconds.

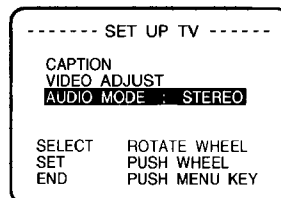
Select Audio Mode for TV viewing

Select the desired type of broadcast and sound track.

1 Press  **10** to display the menu.



2 Use  **23** to first select SET UP TV from the menu, and then to select the desired audio mode as described at left.



- The setting that you make here will also determine which audio sound you record.

3 Press  **10** twice to exit this screen.

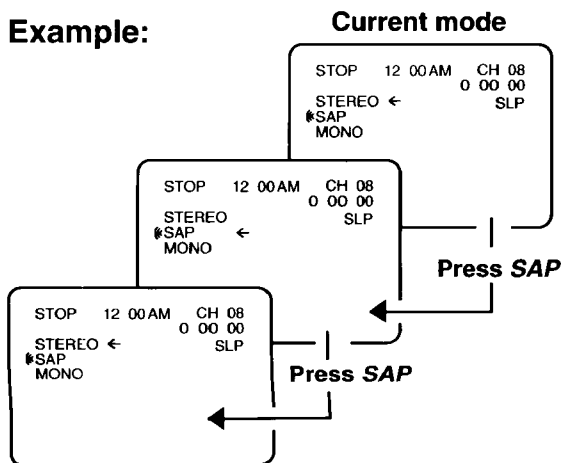
To Quickly Select SAP Audio Mode

Press  **28**

when receiving SAP broadcast to switch instantly from STEREO to SAP, or MONO to SAP audio mode.

- Pressing the SAP button again will switch the audio mode back to the previously selected mode.

Example:



Helpful Note

- The audio mode reverts to "STEREO" whenever the Combination VCR power is turned on.

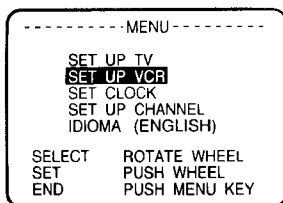
With the proper audio mode setting, your Combination VCR can:


- record and playback an MTS stereo broadcast (main language) in stereo Hi-Fi. Stereo sound is recorded on the left and right audio tracks and on the video portion of a tape.
- record and playback a monaural broadcast (main language) or a SAP (Sound Audio Program, usually in a second language) on the Hi-Fi tracks for better quality monaural sound.
- playback non-Hi-Fi tapes in monaural.

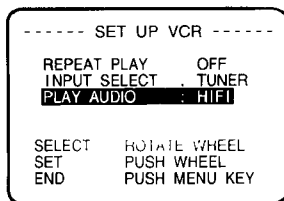
Select Audio Mode for Playback

Select the desired type of broadcast and sound track.

1 Press  **10** to display the menu.



2 Use  **23** to first select SET UP VCR from the menu, and then to select PLAY AUDIO.



- Select HI-FI to listen to your Hi-Fi recordings with stereo sound.
- Select NORMAL to listen to your mono recordings with monaural sound.

3 Playback the tape.

See the "Play Back a Tape" section on page 14.

Select the Audio Mode for Recording

Your recording is always performed according to the audio mode you selected in the "TV Stereo System" section on previous page.

- The audio mode reverts to "STEREO" whenever the Combination VCR power is turned on.
- Your tapes can be played back on Hi-Fi as well as non-Hi-Fi Combination VCRs because the audio mode sound you select is always recorded on the Hi-Fi tracks as well as the normal monaural track.

Helpful Notes

- **When purchasing or renting prerecorded tapes**, remember that only those recorded in Hi-Fi stereo will play back with true stereo sound. Standard stereo tapes will play back with monaural sound.
- **If the stereo broadcast has a weak signal**, you may get better results if the AUDIO MODE is set to MONO for recording. Also, set to MONO if the STEREO indicator on the front panel flickers.
- **In order to listen to Hi-Fi stereo playback**, the Combination VCR AUDIO (L/R) jacks must be connected to a stereo amp and speakers.
- **There may be a difference in audio level** between Hi-Fi and normal audio playback.

Equipped with **dbx**[®]-TV Noise Reduction for true MTS reproduction. **dbx**[®]-TV Noise Reduction is required for good stereo separation and audio fidelity.

dbx[®] is a registered trademark, and is licensed by **dbx**[®] Technology Licensing.

Cassette and Care Information

Erase Protection (Record Tab)

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

Break off the tab with a screwdriver

to prevent accidental erasure.



Cover the hole with cellophane tape

to record again.



Maximum Record/Playback Time

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

Tape Speed Position	Type of Video Cassette		
	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

Cleaning Care for Video Heads



Clogged Video Head Picture

A Clogged Video Head

Your Combination VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the image shown above during playback, the heads probably require cleaning.

To Clean the Head

It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. Be sure to follow the cleaning instructions carefully. Excessive use of a cleaning cassette could shorten head life. Use this cassette only when symptoms occur.

Before Requesting Service

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

Power	Correction
No power..	<ul style="list-style-type: none"> • Check that the Power Plug is completely connected to an AC outlet. • Check that the POWER button is set to on.
Monitor	Correction
<p>No picture or sound..</p> <p>Poor picture with normal sound...</p> <p>Poor sound with normal picture...</p> <p>Poor TV reception...</p> <p>No color or poor color...</p> <p>Ghosts (Multiple images)...</p> <p>TV programs can't be watched...</p>	<ul style="list-style-type: none"> • Make sure your antenna or cable system is connected to the Combination VCR. (P.5) • Check that the power plug is completely connected to an AC outlet. • Check that the POWER button is set to on. • Adjust the BRIGHT, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P.10) • Adjust the VOLUME control. (P.10) • Adjust the SHARPNESS and PICTURE controls in the SET UP TV menu. (P.10) • Adjust the TINT and COLOR controls in the SET UP TV menu. (P.10) • Install a directional antenna. • Make sure that the channel being received is in the Combination VCRs memory. (P.6)
VCR	Correction
<p>TV program can't be recorded..</p> <p>Timer recording can't be performed..</p> <p>There's no playback picture or the playback picture is noisy or contains streaks...</p>	<ul style="list-style-type: none"> • Make sure your antenna or cable system is connected to the Combination VCR. (P.5) • Make sure that the record tab on the back of the cassette is still intact. (P.5) • Set the recording start/stop time correctly. (P.16-17) • Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during Timer Recording, even if power resumes thereafter. • Adjust the TRACKING control slowly in either direction. (P.13)
Remote Control	Correction
Combination VCR can't be remote controlled...	<ul style="list-style-type: none"> • Aim the Remote Control directly at the remote sensor on the Combination VCR. (Refer to Control Reference Guide.) • Avoid all obstacles which may interfere with the signal path. • Inspect or replace the batteries. (P.2)
Miscellaneous	Correction
<p>Video cassette can't be inserted...</p> <p>Video cassette can't be removed...</p> <p>Eject does not function or insertion cannot be done...</p> <p>Video cassette ejects when the REC and PLAY buttons are pressed or when the two minutes before the Timer Recording starts...</p> <p>In the stop mode, the motor (CYLINDER) continues to rotate...</p>	<ul style="list-style-type: none"> • Insert the cassette with the window side up and the record tab facing you. • Check that the power plug is completely connected to an AC outlet. • Turn the POWER off and then on, and try ejecting or inserting the tape again. • Make sure the record tab on the back of the cassette is still intact. (P.5) • To enable the quick play mechanism, the cylinder will rotate for about 5 minutes. • The quick play mechanism reduces response time from Stop to Play mode and from Play to Rewind search mode.

Helpful Notes on Operations

Cable Connections

- With cable connections, numbers selected to receive specific channels may differ from those for antenna connections. Refer to your cable service information.

Special Playback Features

- During search playback, horizontal noise bars will appear on the TV screen.
- After the Combination VCR is in the Still or Slow mode for 3 minutes, it will go into the Stop mode automatically to protect the tape and video head.
- The special effects playback feature is intended for tapes recorded in SP or SLP speed. Tapes recorded in LP mode can also be viewed in special effects playback, but the picture may be completely snowy.

Timer Recording

- Timer recording may not be performed or continue if a power interruption of more than about 1 minute occurs before or during timer recording, even if power resumes thereafter.
- If the start times of 2 preset programs overlap, the preset time of the lower numbered program will have priority.
- If the preset time for a timer recording comes up during a normal recording or One Touch Recording, the timer recording will not be performed.

Product Specifications

Display

Picture Tube: 27 inch measured diagonal 100° deflection Picture Tube

VCR

Video Recording System: 4 rotary heads helical scanning system
Audio Track: 1 track (Normal)
2 channel (Hi-Fi Audio Sound)

Tuner:

Broadcast Channels: VHF 2~13, UHF 14~69
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

General

Power Source: 120V AC, 60 Hz
Power Consumption: Approx. 157 watts
Television System: EIA Standard NTSC color
Speaker: 2 pieces
Operating Temperature: 41°F~104°F(5°C~40°C)
Operating Humidity: 10%~75%
Weight: 88.2 lbs. (40 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

D.S.T (Daylight Saving Time)

Spring

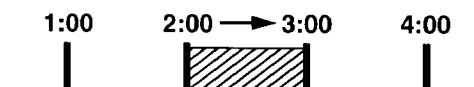
First Sunday in April (minus 1 hour)

Because the clock automatically changes from 2AM to 3AM, keep in mind that any part of a scheduled timer recording which falls between these two times will not be performed.

Examples:

A recording set to begin at 1:30AM and end at 2:30 will actually record for 30 minutes.

A recording set to begin at 1:30AM and end at 3:30 will actually record for 1 hour, and so on.



Autumn

Last Sunday in October (plus 1 hour)

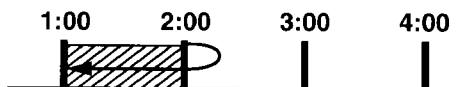
The clock automatically changes from 2:00AM back to 1:00AM and therefore affects your recording length.

Examples:

A recording set from 12:50AM to 2:30, will actually record for 2 hours and 40 minutes.

A recording set from 1:00AM to 1:30, will actually record for 30 minutes. (Not affected.)

A recording set from 1:30AM to 2:30, will actually record from 1:30 to 2:00 and then go into the Stop mode until it becomes 1:30 again. The recording will then continue until 2:30 for a total recording time of 1 hour and 30 minutes.

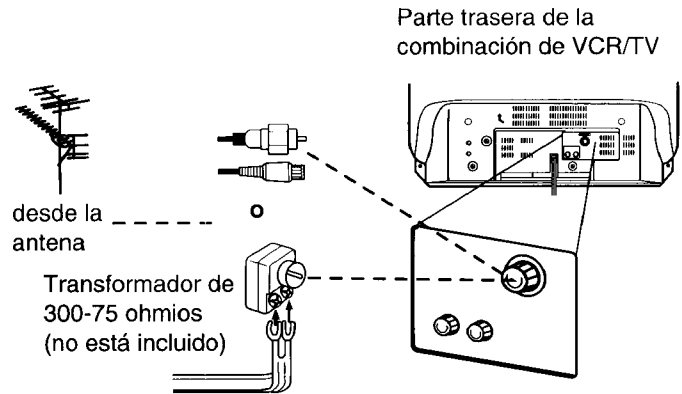


- Even if a recording of a daily or weekly series is affected, other recordings of the series will be performed as programmed.

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

Conexión de la antena externa

Desenganche la antena del televisor o registrador de video que tuviera anteriormente y conéctela a la parte trasera del Registrador de Video de Cobinación, 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).



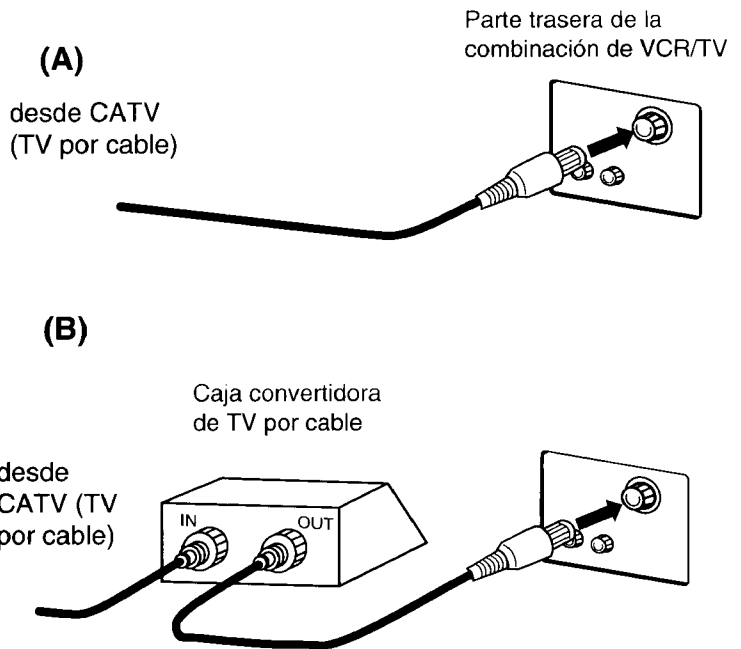
Conexiones de TV por cable

(A) Sin la caja convertidora/decodificadora

Con esta conexión usted podrá utilizar su control remoto del Registrador de combinación de VCR/TV para seleccionar los canales que desee 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. observe, sin embargo, que 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.



Para ver y grabar un canales codificado/no codificado

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

Después, seleccione en la caja convertidora de TV por cable los canales que se quieran ver o grabar.

Los números/letras azules (ej. **1** - **28**) corresponden a la guía de referencia de control de la página doblada (pagina del frente).

Elija el idioma de la pantalla Memorize los canales Fijación automática/manual del reloj

1

Oprimir  **21** (o **n**)
hacia arriba o abajo para la exhibición en inglés o español.

SELECT LANGUAGE

PUSH CH UP : ENGLISH
PULSE CH DOWN : ESPAÑOL

2

Oprimir  **21** (o **n**)
para iniciar la fijación automática de los canales. Cuando termina la fijación de los canales, las siguientes informaciones aparecerán en la pantalla:

- "AUTOPROGRAMACION COMPLETO"
- "POR FAVOR FIJE EL RELOJ CON EL BOTON DE MENU"

AUTOPROGRAMAR CANAL

CONECTE EL CABLE DE LA ANTENA, LUEGO...
PULSE LA TECLA CH UP


3

Oprimir  **10**
para la exhibición de la pantalla de la fijación del reloj.

AUTOMATICO
MANUAL

ELEGIR : GIRE LA RUEDA
FIJAR : PULSE LA RUEDA
TERMINAR : PULSE MENU

4

Use  **23**
para elegir la fijación automática y luego, si está usando una caja de TV por cable elija SI, y si no está usando una elija NO.

ESTA USTED USANDO UNA CAJA DE TV POR CABLE

SI
NO

ELEGIR : GIRE LA RUEDA
FIJAR : PULSE LA RUEDA
TERMINAR : PULSE MENU

Si ud. ha elegido SI en el paso 4

Fije su caja de TV por cable al canal PBS de su local y luego presione la rueda para pasar al siguiente paso.

POR FAVOR FIJE SU CAJA DE TV POR CABLE AL CANAL PBS DE SU LOCAL

5

Ahora, use  **23**
para elegir y fijar el número del canal de salida de su caja de TV por cable. (El canal sintonizado en la combinación de VCR para ver la TV por cable.)

LUEGO : PULSE LA RUEDA

POR FAVOR FIJE EL CANAL DE SALIDA DE SU CAJA DE TV POR CABLE

CA 12

ELEGIR : GIRE LA RUEDA
FIJAR : PULSE LA RUEDA
TERMINAR : PULSE MENU

Si ud. ha elegido NO en el paso 4

Use  **23**
para elegir y fijar el número de su canal PBS. Estas pantallas aparecerán a continuación:

- FIJACION AUTOMATICA DEL RELOJ EN PROCESO
- FIJACION AUTOMATICA COMPLETO
- El canal con el número menor

FIJAR RELOJ

POR FAVOR FIJE EL CANAL PBS DE SU LOCAL

CA 12

ELEGIR : GIRE LA RUEDA
FIJAR : PULSE LA RUEDA
TERMINAR : PULSE MENU

NOTA:

Esta pantalla aparece si:

- Una fijación ha errado.
- La fijación automática no está disponible en el canal PBS que ha fijado.

Si no se puede ajustar el reloj automáticamente, por favor fije el reloj como se describe a la derecha.

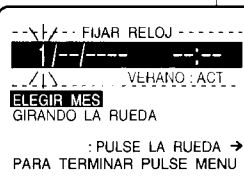
FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO

PULSE LA RUEDA PARA FIJAR EL RELOJ

Fijación manual del reloj

Oprimir  **23**

para la exhibición de la pantalla de la fijación del reloj.



Luego, use  **23**

para elegir y fijar el mes, la fecha, el año, la hora y la hora veraniega.

- El día de la semana aparece automáticamente.
- "VERANO: ACT" ajusta automáticamente a la hora veraniega.

Para hacer correcciones, oprimir la rueda o la tecla CLEAR repetidamente para retroceder o avanzar al paso que desea.

Ahora, oprimir  **10** dos veces para iniciar a efectuar el reloj y salir desde este modo.

Notas útiles para la fijación automática del reloj

- Este dura cerca de 10 segundos para determinar si es posible o no la fijación automática del reloj. Luego, dependiendo a la compañía emisora de TV de su local, este requiere cerca de 1 a 10 minutos para fijar el reloj. Si ud. no podrá esperar, por favor presione el botón STOP y fije el reloj manualmente.

Operaciones básicas para la reproducción

1

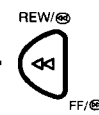

Introducir una cinta de video 

- La combinación de VCR se enciende automáticamente. Empieza a reproducir si la cinta no tiene la lengüeta para evitar el borrado.

2

Oprimir  **17** (o **h**) para iniciar la reproducción si es necesario.

3

Oprimir  **4** (o **g**)
o  **18** (o **i**)

para localizar rápidamente una escena durante la reproducción.

- La velocidad de búsqueda en el modo SP es a 9 veces más rápida que la velocidad normal y en el modo SLP es a 27 veces más rápida.
- Durante la búsqueda aparecerán algunas barras de ruido.

4

Oprimir  **3** (o **k**) para parar la reproducción.

Luego, oprimir  **k** en la combinación de VCR para expulsar la cinta.

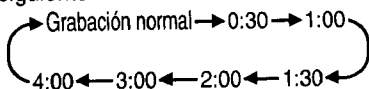
Operaciones básicas para la grabación

- 1** Introducir una cinta **p** con la lengüeta para evitar el borrado.
 - La combinación de VCR se enciende automáticamente.
- 2** Oprimir **CH** **21** (o **n**) para elegir el canal que desea grabar.
- 3** Oprimir **SPEED** **26** hasta que aparezca la velocidad que desea en la pantalla.
- 4** Oprimir **REC/TIME** **20** (o **h** y **j**) para iniciar la grabación.
 - La exhibición en la pantalla cambiará como está demostrado. Oprimir el botón REC/TIME otravez si ud. desea fijar el tiempo de la grabación. (Consulte la sección de "Grabación de un toque" de esta página para más detalles.)
- 5** Oprimir **PAUSE** **19** para detener o seguir otravez la grabación.
- 6** Oprimir **STOP** **3** (o **k**) para parar la grabación.

Grabación de un toque (OTR)

Ud. podrá programar la Combinación de VCR para y apagar el aparato automáticamente a una hora fijada anteriormente haciendo la grabación de un toque.

En el paso 4, **Continúe oprimiendo sucesivamente** **REC/TIME** **20** (o **j**) para fijar el tiempo de la grabación. Cada presión cambiará el tiempo como demuestra en el diagrama siguiente.



Notas útiles

- Es posible cambiar la velocidad de la cinta durante la grabación, pero la grabación tendrá algunos ruidos durante el cambio de la velocidad.
- Si permanece la grabación en pausa durante 5 minutos, la grabación parará automáticamente para proteger la cinta y los cabezales del video.
- El tiempo restante de la grabación aparecerá oprimiendo el botón DISPLAY durante la grabación de un toque.

Grabación con temporizador

- 1** Oprimir **PROG** **11** para el modo de la programación.
 - Si hay una grabación programada, elija con la rueda un número de programa libre.
 - 2** Gire y presione **ROTATE TO SELECT** **23** para elegir y fijar la fecha. (Vea el ejemplo siguiente)

Ejemplo: Fijando la fecha

Girar la rueda hacia abajo → Fecha de hoy → Girar la rueda hacia arriba

SEMANAL(SAB) ← 7 → 8-9... 31

SEMANAL(LUN) **Orden de selección con la rueda**

SEMANAL(DOM) DIARIA 6... 1-2
 - 3** Oprimir **PROG** **11** para salir del modo de la programación y fijar el temporizador.
 - Encenderá el indicador de la grabación con temporizador en el panel delantero.
- Para hacer correcciones:**
Oprimir la rueda o el botón CLEAR repetidamente para retroceder o avanzar al paso que desea corregir.
- Luego, elegir y fijar** cada paso de la fijación (hora de inicio, parada, etc.) como aparezca en la pantalla.
- Nota:** Oprimir **PROG** **11** para terminar la programación. Luego, fije el siguiente programa repitiendo los pasos 2 y 3.
- Nota:** Oprimir **PROG** **11** para salir del modo de la programación y fijar el temporizador.
- Nota:** Dos minutos antes de empezar la grabación con temporizador, "GRABACION PROGRAMADA INICIARA ENSEGUIDA" aparecerá en la pantalla. Si aparece "POR FAVOR PREPARE PARA LA GRABACION PROGRAMADA" y/o el indicador de la grabación con temporizador está destellando, revise si la cinta tiene la lengüeta para evitar el borrado y el aparato esté en el modo de parada.

Spanish Quick Use Guide/Guía para rápida consulta

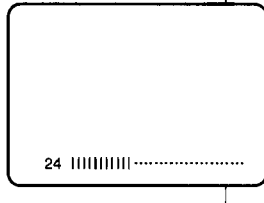
Los numeros/letras azules (ej. **1** **28**) corresponden a la guía de referencia de control de la pagina doblada (pagina del trenite).

Operaciones para ver la TV

1 Oprimir  **2** (o **1**) para encender la combinación de VCR.

2 Luego, elija un canal usando las teclas de canal hacia arriba/abajo o las teclas numéricas.


3 Oprimir  **22** (o ) para ajustar el nivel del volumen.




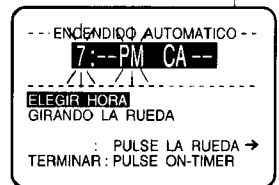
Fijación del encendedor automático

La combinación de VCR se puede fijar para que se encienda automáticamente.

1 Oprimir  **1** Aparece la pantalla del encendedor automático.

Use  **23** para fijar el encendedor automático.

2 Luego, use  **23** para elegir un canal para el modo de TV o "PLAY" para el modo de la reproducción cuando se enciende la combinación de VCR.



- Asegúrese de que esté introducida una cinta si ha elegido el modo de la reproducción.

Para hacer correcciones,

oprimir la rueda o la tecla CLEAR repetidamente para retroceder o avanzar al paso que desea corregir.

Fijación del temporizador para dormir

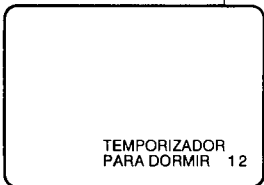
La combinación de VCR se puede fijar para que se apague automáticamente.

Oprimir  **15** para que aparezca el tiempo de fijación.

- Cada presión del botón SLEEP cambiará el tiempo como sigue:

TEMPORIZADOR PARA DOMIR 30
↓
TEMPORIZADOR PARA DOMIR 60
↓
TEMPORIZADOR PARA DOMIR 90
↓
TEMPORIZADOR PARA DOMIR 00

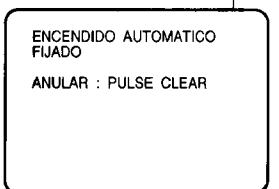
- Si ud. oprime el botón DISPLAY con el temporizador para dormir fijado, aparecerá el tiempo que sobra en la pantalla.



Para cancelar, oprimir el botón SLEEP hasta que aparezca "TEMPORIZADOR PARA DORMIR 00".

3 Oprimir  **1** para fijar la función del encendedor automático.

Esta pantalla aparecerá por 5 segundos.



- El indicador del encendedor automático se encenderá en el panel delantero.

Para cancelar, oprimir el botón CLEAR cuando se está viendo la pantalla de arriba. "ENCENDIDO AUTOMATICO ANULADO" aparecerá por 5 segundos en la pantalla.

Nota

- Luego de 60 segundos de que la combinación de VCR se ha encendido automáticamente, éste se apagará automáticamente si no se ha presionado ningún botón del control remoto o de la combinación de VCR.

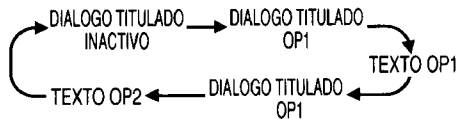
Para fijar al modo de dialogo titulado

Oprimir  

para elegir el modo de dialogo titulado que desea. (vea el siguiente diagrama)
El modo que se elige aparecerá en la pantalla.

DIALOGO TITULADO
INACTIVO

Cada presión del botón CC cambiará el modo como demuestra al siguiente:



- La pantalla desaparecerá en 5 segundos.
- Ud. podrá elegir también el modo de dialogo titulado en la pantalla del menu. Oprimir el botón MENU. Use la rueda para elegir PREPARAR TV y luego para elegir DIALOGO TITULADO. Finalmente elija con la rueda, el modo del dialogo titulado que desea.

Grabación y reproducción de un programa con Texto/Dialogo titulado

Grabación: Su combinación de VCR grabará automáticamente la señal de texto/dialogo titulado. Sólo siga las operaciones normales para la grabación.

Reproducción: Para ver las narraciones o textos durante la reproducción, siga simplemente los pasos que describen anteriormente.

Para elegir el modo de dialogo titulado

Modo de dialogo titulado: OP1 o OP2

Exhibirá los dialogos titulados de programas de TV seleccionados. Revise en su lista de programas de TV si son emitidas con dialogos titulados.

Modo de dialogo titulado: TEXTO OP1 o TEXTO OP2

La mitad de la pantalla hacia abajo serán bloqueados. Cuando una emisora de TV transmite textos como por ejemplo listas de programas, informaciones especiales, etc., dichos textos aparecerán en este espacio reservado. Este espacio bloqueado permanecerá en la pantalla hasta eliminar este modo.


Modo de dialogo titulado: INACTIVO

Las narraciones no aparecerán en la pantalla aunque esté recibiendo programas con dialogos titulados.

- Los dialogos titulados pueden ser transmitidos en OP1 o OP2, o en los dos canales. También, los contenidos del texto pueden ser diferentes, por eso ud. deberá fijar de acuerdo al canal que desea recibir.

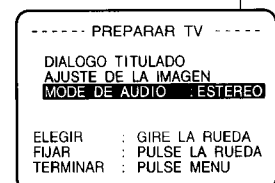
Elegir el modo de audio para ver la TV

Este sistema en estereo está diseñado solamente para ver la TV. Las grabaciones y reproducciones serán siempre monodias.

1 Oprimir  **10** para ver la pantalla del menu.



2 Use  **23** primeramente para elegir PREPARAR TV desde el menu y luego para elegir el modo de audio que desea. (ESTEREO, SAP, MONO)



SAP: Emisión de programa de audio secundario. Un programa de audio separado, generalmente emitidos en idioma secundario como tambien en idioma principal.

3 Oprimir  **10** dos veces para salir de esta pantalla.

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

Printed in U.S.A.
VQTS3110 (A)

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Ave. 65 de Infanteria. Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985



Panasonic

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)

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

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Fax (303) 752-0610

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Fax (808) 486-4369

ILLINOIS

* 1703 North Randall Road
Elgin, IL 60123
"12:30 to 4:30, Mon-Fri"
Phone (708) 468-5466
Fax (708) 468-5465

9060 Golf Road
Niles, IL 60714
Phone (708) 299-1700
Fax (708) 299-1710

MARYLAND

Sulphur Springs
Business Center
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
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Phone (810) 939-2060
Fax (810) 939-2638

MINNESOTA

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Airport Business Center
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Fax (612) 854-2089

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Fax (314) 739-3631

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

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Phone (215) 741-0661
Fax (215) 741-0521
Campbell's Run
Business Center
500 Business Center Drive
Pittsburgh, PA 15205
Phone (712) 788-2174
Fax (712) 288-2176

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 (214) 385-1975
Fax (214) 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 Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985
Phone (809) 750-4300
Fax (809) 768-2910

REPAIR INQUIRIES

Regional Customer Care Department

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

EAST (PCE)

1854 Shackelford Court
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Fax (404) 717-6678

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Fax (714) 373-7447

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

ACCESSORY PURCHASES

1-800-332-5368 (Consumer Orders Only)

Matsushita Services Company Box 01, 545 Tollgate Road Suite C, Elgin, IL 60123
(8:00am-7:30pm Monday-Thursday; 8:00am-5:00pm Friday; 9:00am-12:30pm Saturday; CST)
(Visa, Mastercard, Discover card, Check or Money Order)

As of September '94

Warranty

Matsushita 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. ("PSC")

Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985
Tel. (809) 750-4300
Fax. (809) 768-2910

PANASONIC Video Equipment Limited Warranty

Matsushita 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 U.S.A. or Puerto Rico from the date of original purchase in the event of a defect in materials or workmanship as follows:

Parts (Except LCD; camera pick-up tube/CCD Image Sensor)

New or rebuilt parts in exchange for defective parts for one (1) year from the date of original purchase.

LCD (If included)

New or rebuilt LCD Display in exchange for defective LCD display for one (1) year from the date of original purchase.

Camera Pick-Up Tube/CCD Image Sensor (If included)

New pick-up tube/CCD Image Sensor in exchange for defective pick-up tube/CCD Image Sensor for six (6) months from the date of original purchase.

One Year Extended Warranty on Picture Tube (If included)

New or rebuilt picture tube in exchange for a defective picture tube during the second (2nd) year after original purchase. Purchaser pays for all labor charges for removal and installation of picture tube.

Batteries (If included)

New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days from the date of original purchase. 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 from the date of original purchase.

Labor

Products that do not include a Picture Tube/LCD Display

Carry-in or mail-in service for ninety (90) days from the date of original purchase. After the ninety (90) day labor warranty period is over, purchaser pays for all labor charges.

Products that include a Picture Tube/LCD Display of 18" and below

Carry-in or mail-in service for ninety (90) days from the date of original purchase. After the ninety (90) day labor warranty period is over, purchaser pays for all labor charges for removal and installation of parts and picture tube.

Products that include a Picture Tube/LCD Display of 19" and above

In-home or carry-in service for ninety (90) days from the date of original purchase. After the ninety (90) day labor warranty period is over, purchaser pays for all labor charges for removal and installation of parts and picture tube.

In-home, carry-in or mail-in service, as applicable, in the continental U.S.A. can be obtained during the warranty period by contacting a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory. Or call 800-545-2672, toll free, to locate an authorized MSC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the telephone numbers listed in the Servicenter Directory.

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

This warranty only covers failures due to defects in materials or workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. It does not cover damage which occurs during 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, faulty installation, set-up adjustments, improper antenna, inadequate signal pick-up, maladjustment of consumer controls, line power surge, modification or commercial use, such as hotel, office, restaurant, or other business or rental use of the product or service by anyone other than an MSC Factory Servicenter or authorized MSC 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 PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

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

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the company address indicated above. SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

IMPORTANT SAFEGUARDS AND PRECAUTIONS

INTRODUCTION

Careful attention has been given to this Video product to assure a quality standard devoted to your safety and enjoyment. This quality standard together with your personal responsibility for the safety of yourself and others will contribute to your enjoyment. This Video product uses electrical energy and requires proper handling at all times.

CAUTION:

READ AND RETAIN THE SAFETY AND OPERATING INSTRUCTIONS

To make full use of the safeguards incorporated in this unit, read and follow this basic guide adopted in part from Underwriter's Laboratories Standard 1409, Second Edition, before operating this Video product.

FOLLOW THE INSTRUCTIONS AND BE SURE TO HEED ALL WARNINGS on unit and in manual, for easy maintenance, confident operation and trouble free service of this Video product.

INSTALLATION

1. OPERATE FROM A POWER SOURCE INDICATED on this Video product, or in this Manual. Your Electric Utility Service Company or Video Products Dealer will be happy to verify the power source in your home.

2. THE GROUNDED OR POLARIZED PLUG IS A SAFETY FEATURE

This Video product may be equipped with either a polarized 2-wire AC line plug or a 3-wire grounding type plug.

The two wire polarized plug (having one blade wider than the other) will fit into the power outlet only one way. If it is a three wire grounding type plug (having a third pin), it will fit into a grounding type outlet.

DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDED OR POLARIZED PLUG by tampering with it.

If the plug does not fit fully into the socket, try reversing it. If you should still be unable to fully insert the plug into the socket, you may find that a proper outlet is needed to meet today's Electrical Standards. An electrician will replace your outlet safely.



3. POWER SUPPLY CORDS SHOULD BE PROTECTED and routed so that they are not likely to have anything rest on them, roll over them, or be subject to walking traffic or abuse: particularly at plug-ins, convenience receptacles, or cord exit points from the unit. Where an extension is needed, use a grounded or polarized cord. **HAZARDOUS FRAYED CORDS OR DAMAGED PLUGS SHOULD BE REPLACED BY A QUALIFIED SERVICE TECHNICIAN.**

OVERLOADED WALL OUTLETS AND EXTENSION CORDS PRESENT DANGEROUS RISKS OF FIRE OR ELECTRICAL SHOCK.

4. AVOID BLOCKING VENTILATION HOLES

Your video unit has ventilation openings in its cabinet to release heat generated during operation. Blocking these openings can cause heat build-up inside the unit, causing failures that may result in a fire hazard or heat damage to cassettes. For protection:

- Never cover the bottom ventilation slots or the unit with soft material, or operate the unit placed on a bed, sofa, rug, or soft accessory.
- Avoid built-in installations, such as a bookcase or rack, unless proper ventilation is provided.

5. AVOID EXTREMELY HOT LOCATIONS OR SUDDEN CHANGES IN TEMPERATURE such as placing the unit near or over a radiator, in direct sunlight, closed vehicles, or transporting it suddenly between areas of extreme temperature variation.

If the unit is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the unit.

6. TO AVOID INJURY TO A CHILD, ADULT; OR COSTLY DAMAGE:

- Do not place unsecured equipment on a sloping surface or any heavy object on unit. (Use the unit in a horizontal position and do not place anything heavy on it.)
- Support for unit should be adequately firm, level, and strong. Replace any unstable cart, table or support.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

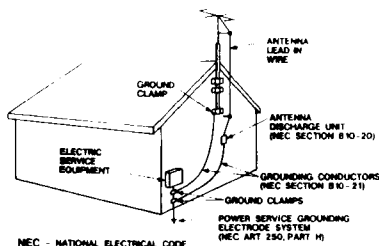
An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



OUTSIDE ANTENNA, EQUIPMENT, AND POWERLINE EXPOSURE

1. INSURE SAFE ANTENNA AND CABLE CONNECTIONS

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. Part 1 of the Canadian Electrical Code, in USA Section 810 of the National Electrical Code, ANSI/NFPA 70, 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. ELIMINATE ANTENNA PROXIMITY TO HIGH VOLTAGE POWER SOURCES, OR CHANCE OF ACCIDENTAL CONTACT BY INSTALLER

An outside antenna system should be located where it will never be reached by power lines, electric light or power circuits and where it will never contact these power sources if it falls. Installer should use extreme care to avoid possible fatal contact by touching power lines, circuits or other power sources when installing an outside antenna.

USE

AFTER STORING OR WHEN MOVING THE UNIT REFER TO THE INSTALLATION SECTION OF THE SAFEGUARDS

1. **DO NOT USE THIS VIDEO UNIT NEAR WATER** around bathtubs, sinks, laundry, wet basement, swimming pool or any water sources.
2. **USE ACCESSORIES RECOMMENDED ONLY BY THE MANUFACTURER** to avoid risk of fire, shock or other hazards.
3. **UNPLUG ALL EQUIPMENT EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT AND GET A QUALIFIED INSPECTION**
If your unit has been exposed to rain, water, excessive moisture, or subjected to strong impact, unplug it and have it inspected by a service technician before use.
4. **UNPLUG UNUSED UNIT, AND ALL EQUIPMENT DURING A STORM**
During a lightning storm, when indoors or outdoors, or before leaving unit unused for extended periods of time, disconnect all equipment from power source, antenna and cable system.
5. **UNPLUG ALL EQUIPMENT BEFORE CLEANING**, after unit has been unplugged use a dry, clean, chemically untreated, cloth. Use no cleaning fluids, aerosols, or forced air that could over-spray, or soak into the unit, and cause electrical shock. Any substance such as wax, adhesive tape, etc. may affect the cabinet surface. Exposure to greasy, humid, or dusty areas may affect internal parts.
6. **WHEN PLUGGED-IN: KEEP WATER AWAY; NO FINGERS INSIDE NOR ANY OBJECTS INSIDE; AND NO MAGNETS OR ELECTRICAL INTERFERENCE NEARBY.**
 - a. Never operate the unit if liquid has been spilled into it. Immediately unplug the unit, have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
 - b. Caution the children about dropping or pushing objects into the unit. Some parts inside carry hazardous voltages and contact can cause electric shock. Objects dropped in electrical equipment can cause fire hazards.
 - c. Separate the unit from any interference causing appliances. Keep all magnets away from electronic equipment.

SERVICE

1. **DO NOT ATTEMPT TO SERVICE THIS PRODUCT YOURSELF**
If this Video product does not operate as described, when the detailed Operating Instructions are followed do not attempt to open or remove covers, or make any adjustments not described in the manual. Attempting to service this unit yourself may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
2. **CHECK ON REPLACEMENT PARTS REQUIRED**, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutes may result in fire, electric shock or other hazards.
3. **HAVE TECHNICIAN PERFORM SAFETY CHECK** described in the manufacturer's service literature, after any service or repairs, to determine the Video unit's safe operating order.