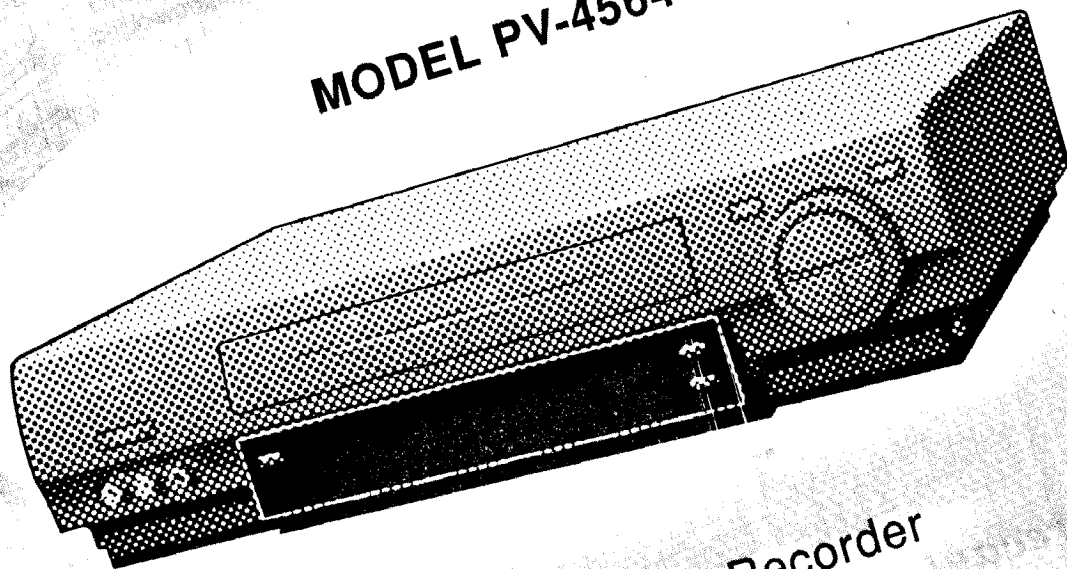


Thank you for choosing

# Panasonic OmniVision VHS

MODEL PV-4564



Video Cassette Recorder

**VCR Plus+**  
w/Cable Channel  
Changer

## Operating Instructions

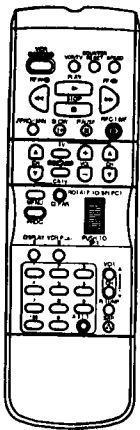
Attempting to connect,  
side is included.

# Things You Should Know

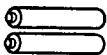
## Unpacking Your VCR

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

### Accessories



Remote Control  
VSQS1411



2 "AA"  
Batteries



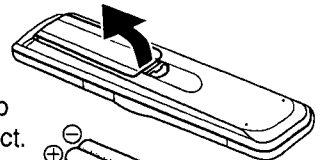
RF Coaxial  
Cable  
VJAS0175

### Optional Accessories

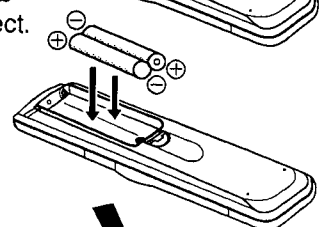
- 1/2" Video Cassette Tape

### Load the batteries in the Remote Control

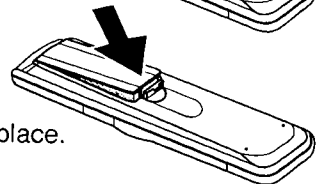
**1** Lift off the lid after pressing in and up on the latch with your thumb nail or other narrow object.



**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.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL</b>		
	This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.	
	This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.	

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# One Time VCR Setup

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

## ✓ Check list before you begin

- All TV and VCR connections are made. (See separate Connection Guide.)
- TV and VCR are plugged in.
- TV is turned on and set to the VCR channel (the same channel you set on the back of the VCR, CH3 or CH4).
- VCR is turned on (VCR goes into VCR mode).

- When the VCR power is first turned on, the language select and channel auto set screen appear automatically followed by a prompt to set the clock.

## 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.

- 1 Select On-Screen Language**
- 2 Place Channels in Memory**
- 3-5 Auto Clock Set/Manual Clock Set**

Press  **26** or  **1** (or **d** or **b**)

for on-screen displays in English, Spanish, or French.



- If you choose the wrong language, please see the "Reset all VCR Memory Functions" section on page 28.

SELECT LANGUAGE

PUSH VCR CH ▲ : ENGLISH

PULSE VCR CH ▼ : ESPAÑOL

APP. VCR/TV : FRANÇAIS

**1** Oprimir  **26** o  **1** (o **d** o **b**) para elegir el idioma de la pantalla en español o inglés o francés.

Appuyer sur  **26** ou  **1** (ou **d** ou **b**) pour alterner entre le menu français ou anglais ou espagnol.

- This screen appears a few seconds later.

CHANNEL AUTO SET

CONNECT ANTENNA CABLE THEN...

PUSH VCR CH UP KEY

**2** Press  **26** (or **d**) to start Channel Auto Set.


- After channels have been placed in memory, the following on-screen displays appear in sequence: "CH AUTO SET COMPLETED" "PLEASE SET CLOCK BY PUSHING MENU KEY"

**3** Press  **9** to display this SET CLOCK screen.

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

**AUTO SET**  
MANUAL SET

SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

**4** Use  **24** to first, select \*AUTO SET and then, to select YES if you are using a cable box, or NO if you are not.

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

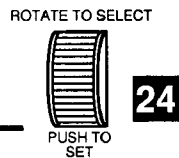
ARE YOU USING  
A CABLE BOX ?

**YES**  
NO

SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

- \* If you select MANUAL SET, go to "Manual Clock Set" at top right of page 5.

## Using the Select/Set Wheel

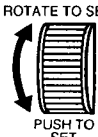


- There are basically two types of Wheel operation.
- Selecting items from an on-screen display.
  - Entering information, such as setting the clock.

OPERATION

**① Rotate**  
(up or down)

ROTATE TO SELECT




PUSH TO SET

**to make selection**

**② Press**  
(like a button)

ROTATE TO SELECT



PUSH TO SET

**to enter selection**

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

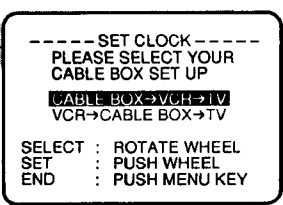
*Continued on the next page...*

...Continued from page 4

**A) If You Selected YES in Step 4**

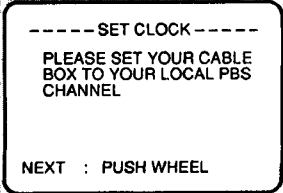
**Select your cable box set up.**

If you selected "CABLE BOX → VCR → TV", continue with next step. If not, go to section "B" below.



**Then, set your cable box**

to PBS station and then, press the Wheel to go to the next step.

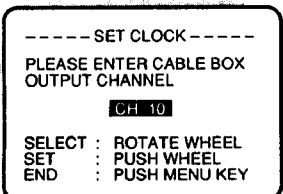


**5**

**Now, use**



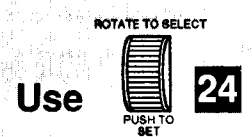
to select and enter the cable box output channel. (The same channel you tune your VCR to in order to watch cable stations.)



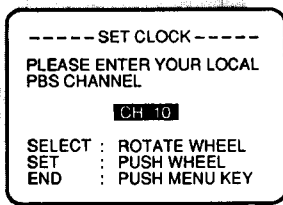
- If you use Audio/Video jack connections for your cable box, select "VIDEO OUT" as the output channel.

**B) If You Selected NO in Step 4,**

or if your cable box setup is:  
**VCR → CABLE BOX → TV**



to select and enter your PBS channel number.

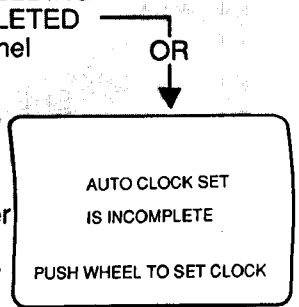


These on-screen displays will appear in sequence.

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

**NOTE:**

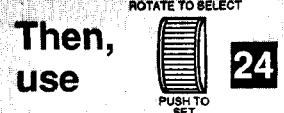
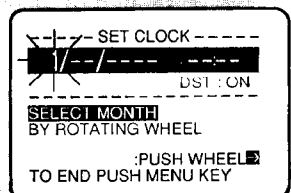
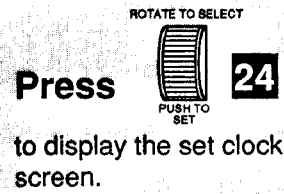
The screen at right appears if auto clock set is not available for the PBS channel selected (try another PBS channel), or if it is not yet available in your area, or if an entry error was made.



If auto clock set cannot be performed, please press the Wheel and set the clock manually as described at right.

...Continued from page 4

**Manual Clock Set**



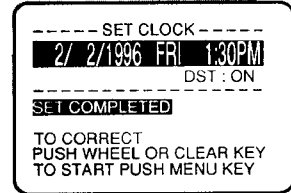
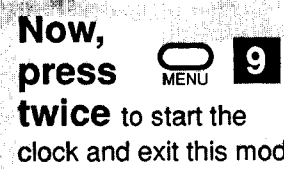
to select and enter the month, date, year time, and D.S.T. (Daylight Saving Time).

- The day of the week appears automatically.
- "DST: ON" automatically adjusts for daylight saving time. (See page 28 for details.)

See page 4 for Wheel operation information.

**To Make Corrections:**

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



**IMPORTANT NOTE FOR AUTO CLOCK SET:**

Auto clock set will be performed when the VCR is turned off the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on at the time the VCR power is turned off. Also, if the cable box control steps on page 17 have not been completed, or your cable box is not remote controllable, the cable box must be tuned to your PBS channel.

**See pages 6, 7 to change or re-enter One Time Setup items**

You will find out how to:

- change the on screen display language.
- replace channels in memory.
- set or reset the clock manually.
- set or reset the Auto Clock Set feature.
- add or delete a channel from memory.

**Helpful Note**

- It takes about 10 seconds for the 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.

# Change or Re-enter One Time Setup Items

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

## Change the On Screen Displays (OSD) Language

Press **9** to display the menu.



ROTATE TO SELECT

Then, rotate **24**



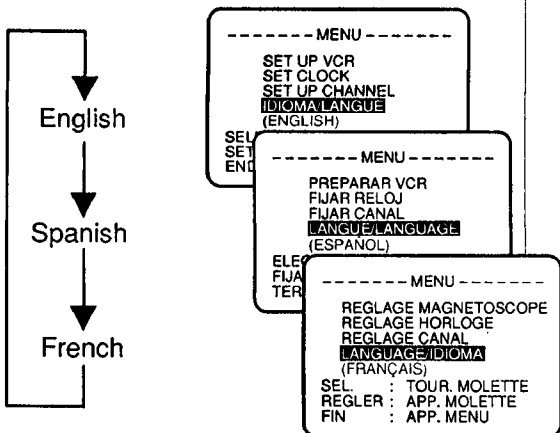
ROTATE TO SELECT

Next, press **24**



to change the language.

• Each press will change the language in the order shown.



Now, press **9** again to leave this screen.



## Replace Channels in Memory

Example, if you have cable installed, etc.

Press **9** to display the menu.



ROTATE TO SELECT

Then, use **24**



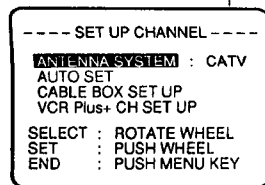
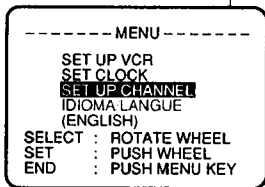
to first, select SET UP CHANNEL from the menu and then press to set your antenna system (TV or CATV).

ROTATE TO SELECT

Now, use **24**



to select AUTO SET and then press to start Auto Set.



## Set or Reset the Clock Manually

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

Press **9** to display the menu.



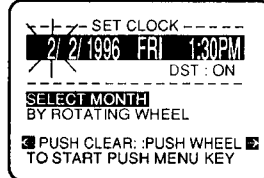
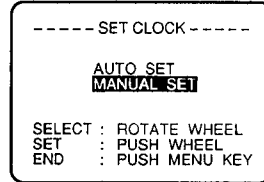
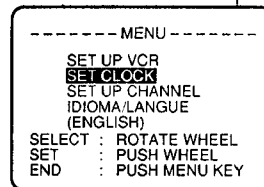
ROTATE TO SELECT

Then, use **24**



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

Now, press **9** twice to start the clock and exit this mode.



## Set or Reset Auto Clock Set

For convenience, the Auto Clock Set feature was introduced in the One Time VCR Setup section. However, the following instructions are provided in case:

- Auto clock set was not available at the time one time setup was done, but is available now.
- You changed cable boxes.
- The PBS channel over which clock data is sent was changed by the broadcast company.

**1** Press **9** to display the menu.



ROTATE TO SELECT

**2** Use **24**



to select SET CLOCK and then, to select AUTO SET.

**3** Use **24**

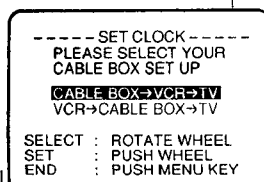
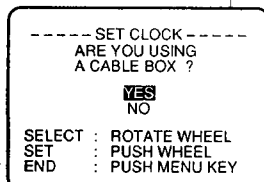
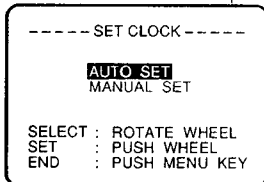


to select YES or NO.  
If YES, go to step 4.  
If NO, enter your local PBS channel to start auto clock set.

**4** Use **24**



to select your cable box hook-up.  
If CABLE BOX → VCR → TV, go to step 5 on page 7.  
If VCR → CABLE BOX → TV, enter your local PBS channel to start auto clock set.

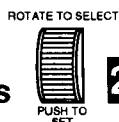


Continued on the next page...

...Continued from page 6

**If your cable box is remote controllable, and the Cable Box Control section on page 17 has been completed.**

Turn your cable box on.



Then, press **24** three times.

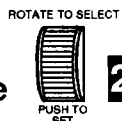
First press confirms the PBS channel.  
Second press confirms cable box output channel.  
Third press starts auto clock set.

5

OR

**If your cable box is not remote controllable, or the Cable Box Control section on page 17 has not been completed.**

Turn your cable box on and tune it to your local PBS channel.

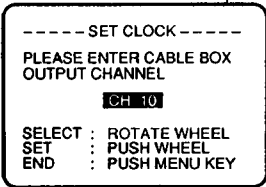


Then, use **24**

to enter your cable box output number.

(The channel you tune your VCR to in order to watch cable stations.)

If you are using Audio/Video jack connections, enter "VIDEO OUT" as the output channel.



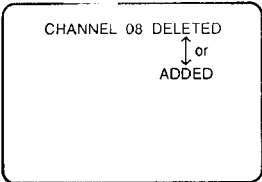
- AUTO CLOCK SET COMPLETED appears if everything was set correctly. Press MENU to exit.
- AUTO CLOCK SET IS INCOMPLETE appears if auto clock set is not available in your area, or an entry error was made. In this case, press the Wheel to display the manual set clock screen. (See the Manual Clock Set section on page 5.)

**IMPORTANT NOTE FOR AUTO CLOCK SET:**

Auto clock set will be performed when the VCR is turned off the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on at the time the VCR power is turned off. Also, if the cable box control steps on page 17 have not been completed, or your cable box is not remote controllable, the cable box must be tuned to your PBS channel.

**Add or Delete a Channel**

Select a channel using the NUMBERED keys on the remote control.



Then, press **ADD/HLT** **14**

to add or delete the channel.

- To select a deleted channel, use the NUMBERED keys on the remote control. Each time a deleted channel is selected, it will flash in the Multi Function Display.

**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.

**Helpful Notes**

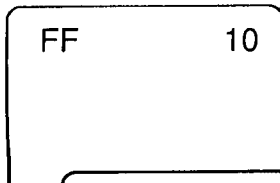
- This VCR will accurately maintain its calendar up to Dec. 31, 2013, 11:59PM.
- Make entries within 5 minutes, or the VCR exits the Set Clock screen.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your VCR is hooked up.
- By pressing the Wheel or CLEAR button repeatedly, you can skip forward or backward over correct entries and go directly to a specific item.

# On Screen Displays (OSD)

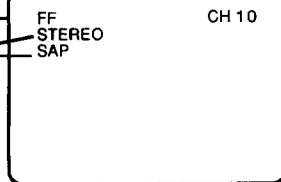
Blue numbers/ letters (ex. **1** ~ **28**) correspond with fold-out Control Reference Guide (front page).

## 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.



These indicators will appear only when a stereo and/or SAP broadcast signal is being received.



## Menu Screen

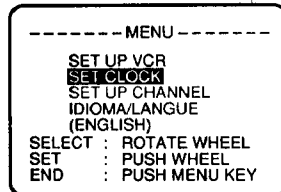
Press  **9** to display the menu.

ROTATE TO SELECT


Then, use  **24**

to make your selection. (See page 4 for details.)

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



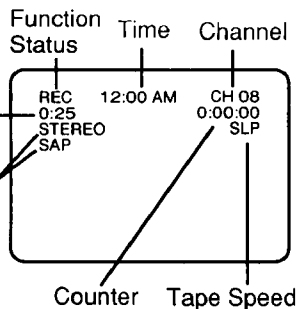
## VCR Status & Clock Display

Press  **11** to display the overlay shown at right.

Rec Time Remaining (OTR mode only see page 10.)

Audio Mode

Press  **11** again to leave this mode.



## Blank Tape Indication

If a blank section of tape is encountered in the Play mode or the channel you select has no broadcast, the TV 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.

## Warning and Instruction Displays

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 VCR CH UP KEY AGAIN

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

PLEASE SET CLOCK  
BEFORE PROGRAMMING

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

PROGRAM IS INCOMPLETE

After a Timer Program has been set...

TURN VCR OFF  
FOR TIMER RECORDING

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

CHECK CASSETTE  
RECORD TAB

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

NO CASSETTE  
PLEASE INSERT A CASSETTE

If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)

TO CANCEL TIMER REC  
PUSH POWER THEN STOP KEY

If you press VCR Plus+ during a normal Recording or One Touch Recording...

TO VCR Plus+ PROGRAMMING  
STOP THE RECORDING



# Play Back a Tape



## Check list before you begin

- All connections are made (see separate Connection Guide).
- Your VCR is plugged in.

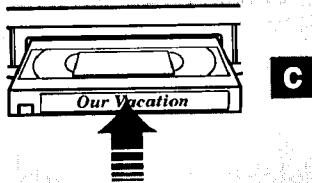
1

Turn TV on.  
Select its VCR Channel  
(CH3 or CH4).

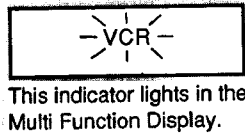
- The TV channel is the same number you set on the back of the VCR (see separate Connection Guide).

2

Insert a cassette



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



3

Press **3** (or **n**)  
to start playback.

4

Press **4** (or **e**)  
or **17** (or **h**)  
to quickly locate a scene during playback.  
Press PLAY to release search mode.

- 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.

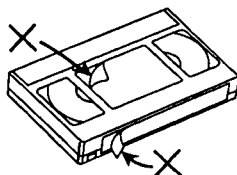
5

Press **18** (or **f**)  
to stop playback.

Then, press **f**  
on the 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.



# Playback Features

## Special Effects During Playback

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

### Slow Motion Playback

Press **6**  
Then, press **3** (or **n**)  
to release.

### Still (Freeze) Frame Picture

Press **20**  
to freeze and release the picture.  
• To reduce picture noise:  
First, place the VCR in slow motion mode. Then, when the picture is clear using TRACKING ▲/▼, press PAUSE.

### Frame by Frame Advance

While in Still mode, **6**  
hold down **6**  
to advance the still picture one frame at a time. Press PAUSE to release.

## Features for a Quality Picture

### Digital Auto Picture

This feature automatically controls the video output signal for improved picture resolution or less noise depending on the tape condition.

### 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 **26** (or **d**)  
until the picture clears up.  
To return to the Auto Tracking mode, press the VCR POWER button off and then on again.

### V-Lock Control

Use during Still mode to reduce jitter.

Press **26** (or **d**)  
until the picture is stabilized.

### DynAmorphous™ Metal Head/ CNR (Color Noise Reduction)/ ANR (Advanced Noise Reduction)

DynAmorphous™ Metal Head increases playback and record picture quality. Color Noise Reduction reduces the color noise. Advanced Noise Reduction reduces the luminance noise.

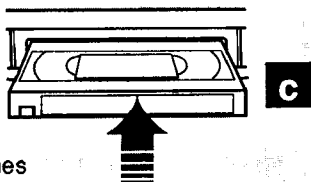
# Record On a Tape

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

## ✓ Check list before you begin

- Connections are made (see separate Connection Guide).
- VCR is Plugged in.
- TV is turned on and set to the VCR channel (CH3 or CH4).

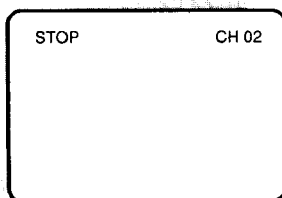
### 1 Insert a cassette with record tab.



- VCR power comes on automatically.

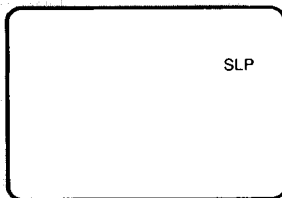
### 2 Press **26** (or **d**)

- to select a channel to be recorded.
- To record from an outside source, see "Selecting the Input Mode" section on next page.



### 3 Press **16**

until the desired speed appears on-screen.



### 4 Press **19** (or **n** and **p**)


to start recording.

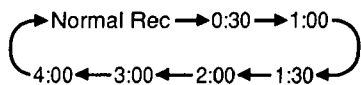
### 5 Press **18** (or **f**)

to stop recording.

## One Touch Recording (OTR)

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

In step 4, continue to press  **19** (or **p**) to set the recording length. Each press will change the time as shown in the diagram below.



The TIMER indicator lights in the Multi Function Display.

## Record One TV Program While Watching Another

Press  **1** (or **b**)

while the recording is in progress to turn off the VCR indicator in the Multi Function Display.

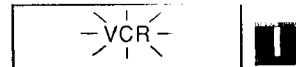
Then, use the TV channel controls to select a program for viewing.

The VCR will continue to record your program while you watch any channel you choose.

- You can switch back and forth between the channel being recorded and the channel you are viewing by using the VCR/TV selector.

## Select Channels at the VCR for Recording or Viewing

Turn TV on. Select VCR Channel.



Channel 3 or 4.

This indicator lights in the Multi Function Display. If not, press the VCR/TV selector to turn it on.

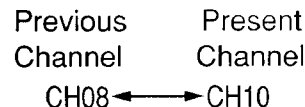
Then, press  **26** (or **d**) to select channels.

Now, press  **1** (or **b**) to turn the VCR indicator off, or simply turn the VCR off to select channels with the TV controls.

## Rapid Tune

Press  **27**

to display the last channel you were watching.



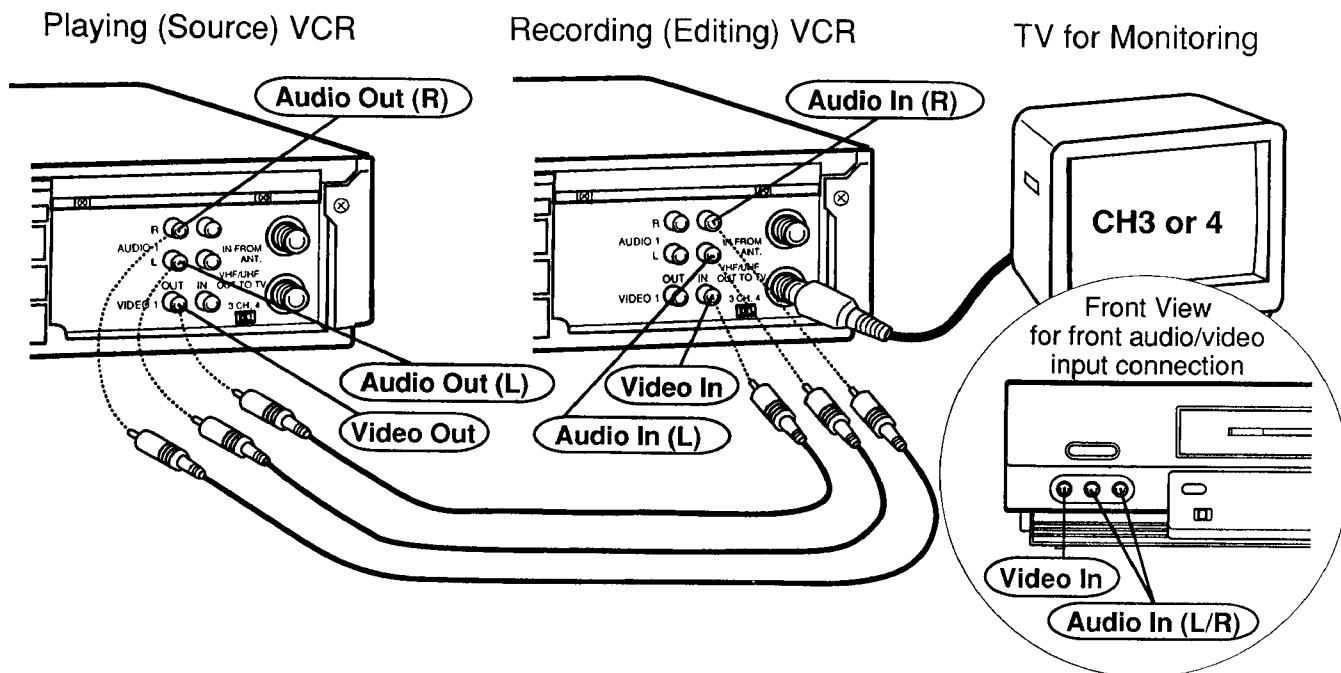
- When selecting channels with the VCR CH UP/ DOWN key, the channels must be displayed for at least 4 seconds in order for the VCR to recognize them as a new selection.

## Helpful Notes

- Holding down the VCR CH ▲/▼ key will increase the channel search speed.
- Press PAUSE to pause the recording in progress.
- The recording time remaining will appear when the DISPLAY button is pressed during OTR mode (See page 8).

# Copy Your Tapes (Dubbing)

Connections you'll need to make.  
(Choose front or rear connection.)



- 1 **Insert a pre-recorded tape** into the Playing (Source) VCR.  
**Then, insert a blank tape** with record tab into the Recording (Editing) VCR.

- 2 **Select "LINE"** as the input on the Recording VCR.  
LINE1: For rear audio/video connection.  
LINE2: For front audio/video connection.  
• See right section for LINE input information.

- 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 VCR.  
**Then, press PAUSE** immediately.

- 5 **Press PAUSE** on both VCRs (at the same time), to begin copying.  
**Then, press STOP** on both VCRs to stop copying.

## To Monitor the Re-Recording

Turn the TV on and select its VCR channel (either channel 3 or 4).

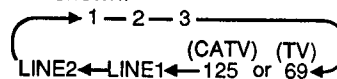
Then, set the VCR/TV selector on the Recording VCR to the "VCR" position.

## Selecting the Input Mode

Press **MENU** **9** to display the menu.

Then, use **ROTATE TO SELECT** **24** to first, select SET UP VCR and then, to choose TUNER or LINE (LINE1 or LINE2).

- LINE1: For rear audio/video connection.
- LINE2: For front audio/video connection.
- You can also select "LINE1" or "LINE2" using the VCR CH ▲/▼ key. The numbers will change in the order shown.



- When LINE is selected, "L1" or "L2" is displayed in the Multi Function Display ( **1** ) for about 4 seconds.

## Caution:

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

## Helpful Note

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


More You Can Do

# Set Up a Timer Recording

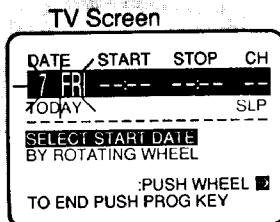
Blue numbers/ letters (ex. **1** ~ **28**) correspond with fold-out Control Reference Guide (front page).


## ✓ Check list before you begin

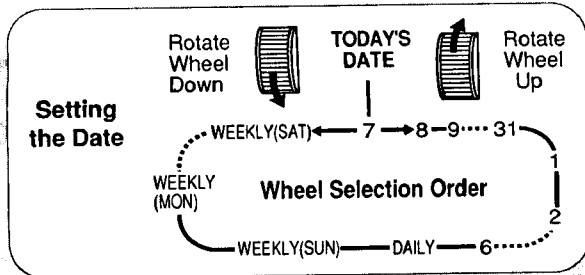
- If you are going to record from a cable box, please complete pages 16 and 17.
- Connections are made (see separate Connection Guide).
- TV and VCR are plugged in. VCR/TV selector is set to "VCR".
- Clock is set to correct time.
- Tape is long enough and the tape's record tab is in tact.

**1** Press  **10** for program mode.

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



**2** Rotate and press  **24** to select and enter the date. (See example, below.)

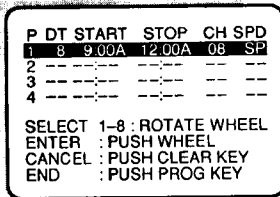



**Then**, in this same manner, continue to set the Start time, Stop time, Channel, and Tape Speed as they appear on-screen.


### To make corrections:

Press the Wheel or CLEAR button repeatedly to move back or forward to the desired item. Then, re-enter it.

**3** Press  **10** to finish the program.



**4** Press  **10** again to exit this mode. Or, repeat steps 2 and 3 to set the next program.


**5** Press  **2** (or **a**) OFF to set the Timer.

The TIMER indicator lights in the Multi Function Display.

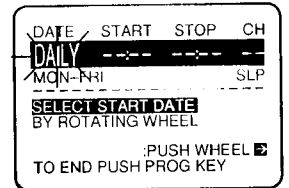


## Daily/Weekly Programming

In step 2 of left,

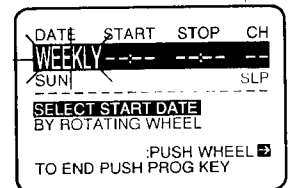
Use  **24**

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.


## Helpful Notes

- If you are recording channels from a cable box, the cable box must be left on for timer recording. Also, if the cable box cannot be controlled with the VCR (see page 17), you must manually select the channel to be recorded at the cable box.
- Another way to review program contents is to first, place the VCR in VCR mode. Then, press the PROGRAM button while a Timer Recording is in progress.
- Check your times carefully to avoid overlapping.
- If the record tab is missing at the time the VCR power is turned off, the tape ejects and the Timer indicator **TIMER** flashes.
- If there is a power interruption of more than about one minute, a timer recording cannot be performed or continue.
- If "PROGRAM IS INCOMPLETE" appears in step 3, check all entries carefully and make any corrections. Then, continue with step 3.
- When recording from an external source, rotate the Wheel until "L1 (Rear connection)" or "L2 (Front connection)" appears instead of the Channel.

# Cancel, Clear or Replace Timer Recording Programs

## Cancel a Timer Recording

(Recording is in progress.)

Press  **2** (or **a**)  
to release the Timer mode.


Then, press  **18** (or **f**) **10 seconds**  
to cancel the Timer Recording.


Now, press  **2** (or **a**)  
to turn the VCR OFF.

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

## Replace Program Contents

(Recording is not in progress.)

Press  **10**  
to display all currently set programs.

Then, use  **24**  
to select and enter the desired program.

Now, press  **10**  
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
			SLP

SELECT START DATE  
BY ROTATING WHEEL

PUSH CLEAR : PUSH WHEEL   
TO END PUSH PROG KEY


## Review or Clear Program Contents

(Recording is not in progress.)

Press  **10**  
to display all programs.

Then, rotate  **24**  
to select the desired program number.

Next, press  **25**  
to clear the program.

Now, press  **10**  
to return to normal TV.

P	DT	START	STOP	CH	SPD
1	DAY	9:00A	12:00A	08	SP
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

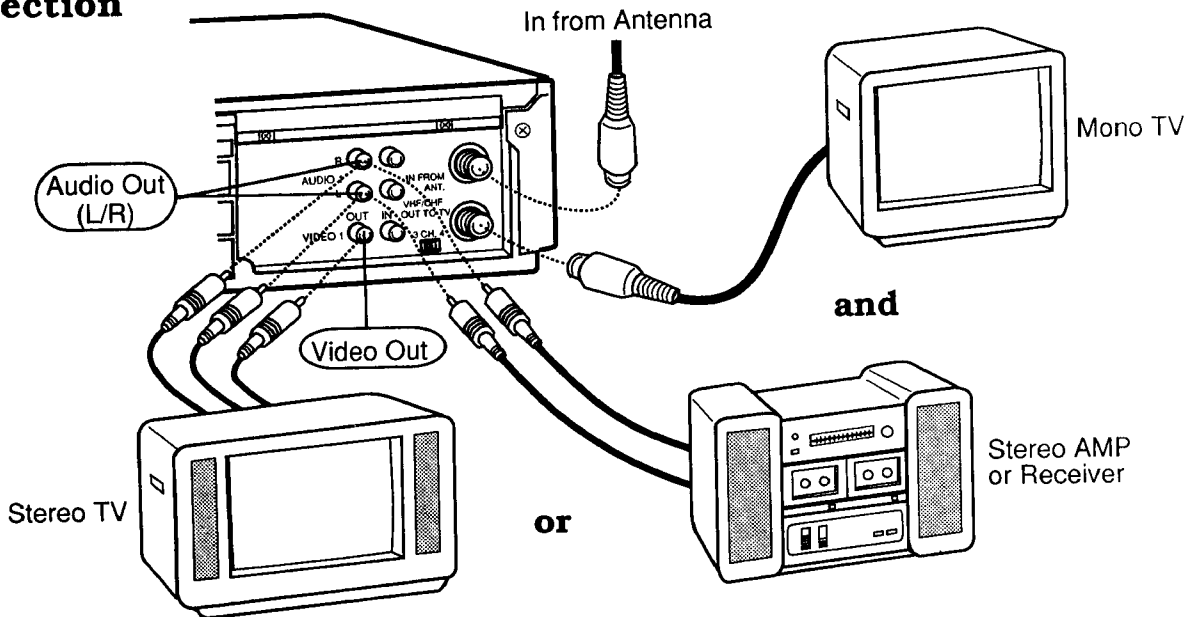
# MTS Broadcast/VHS Hi-Fi Stereo System

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

## ✓ Check list before you begin

- The VCR is connected to a stereo TV, or a mono TV and stereo amp or receiver with speakers.

### Connection



### Definition of Terms

- MTS:** Multi-channel Television Sound broadcast. An 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.
- Hi-Fi:** Stereo sound recorded on the Left and Right audio tracks on the video portion of a tape.
- MONO:** Normal sound recorded on the linear, monaural track in addition to the left and right Hi-Fi tracks.

Equipped with **dbx**<sup>®</sup> -TV Noise Reduction for true MTS reproduction. **dbx**<sup>®</sup> -TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**<sup>®</sup> is a registered trademark, and is licensed by **dbx**<sup>®</sup> Technology Licensing.

### Type of Broadcasts

The following are possible combinations of broadcasts with their accompanying on-screen displays.

**Press the DISPLAY button to display the broadcast signal currently being received.**

#### MTS Stereo and SAP broadcast

"STEREO" and "SAP" appear.

**In step 3 on page 15,** select "STEREO" to monitor and record in Hi-Fi stereo, or "SAP" for a second language.

REW	12:00 AM	CH 08
STEREO		0:00:00
SAP		SLP

#### MTS Stereo broadcast

"STEREO" (only) appears.

**In step 3 on page 15,** select "STEREO" to monitor and record in Hi-Fi stereo.

REW	12:00 AM	CH 08
STEREO		0:00:00
		SLP

#### SAP broadcast

"SAP" (only) appears.

**In step 3 on page 15,** select "SAP" to monitor and record the second language.

REW	12:00 AM	CH 08
SAP		0:00:00
		SLP

#### MONO broadcast

**In step 3 on page 15,** select "MONO" to monitor and record monaural audio sound in case the stereo signal is weak. "MONO" will only appear on-screen after it is selected.

REW	12:00 AM	CH 08
MONO		0:00:00
		SLP

- The audio mode sound you select, is always recorded on the left and right Hi-Fi tracks as well as the normal monaural track. This means that your tapes can be played back on Hi-Fi as well as non-Hi-Fi VCR's.

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

- 1) record and playback an MTS stereo broadcast (main language) in stereo Hi-Fi.
- 2) record and playback a monaural broadcast (main language) or a Second Audio Program (second language) on the Hi-Fi tracks for better quality monaural sound.
- 3) playback non-Hi-Fi tapes in monaural.


### Select Audio Mode for Recording

Select the type of broadcast and sound track you wish to record.

**1** Press  **9** to display the menu.


```

----- MENU -----
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE
(ENGLISH)
SELECT : ROTATE WHEEL
SET      : PUSH WHEEL
END      : PUSH MENU KEY
    
```

**2** Use  **24** to first, select SET UP VCR from the menu, and then to select SET AUDIO MODE.

```

----- SET UP VCR -----
REPEAT PLAY : OFF
INPUT SELECT : TUNER
SET AUDIO MODE
SELECT : ROTATE WHEEL
SET      : PUSH WHEEL
END      : PUSH MENU KEY
    
```

**3** Use  **24** to select the type of audio mode (STEREO/SAP/MONO) as described on page 14.

```

----- SET AUDIO MODE -----
AUDIO MODE : STEREO
PLAY AUDIO : HI-FI
SELECT : ROTATE WHEEL
SET      : PUSH WHEEL
END      : PUSH MENU KEY
    
```

**4** Press  **9** three times to exit this screen.

### Do a recording

See "Record On a Tape" section on page 10.

**5** You may monitor the recording in stereo, even if you are watching a mono sound TV by using a stereo amp and speakers. (See connection on page 14.)

### To Quickly Select SAP Audio Mode

Press  **28** when receiving an SAP broadcast to switch instantly from STEREO to SAP, or MONO to SAP audio mode.

SAP appears for a few seconds if an SAP broadcast is being received at the time the SAP button is pressed.


- Pressing the SAP button again will switch the audio mode to the previously selected mode.
- The SAP button is specially designed so that it can be easily recognized by touch.

### Select Audio Mode for Playback

Select the type of sound you desire for playback.

Do steps 1 and 2 (left).

Then, in step 3,

use  **24**

```

----- SET AUDIO MODE -----
AUDIO MODE : STEREO
PLAY AUDIO : HI-FI
SELECT : ROTATE WHEEL
SET      : PUSH WHEEL
END      : PUSH MENU KEY
    
```

to select Hi-Fi to listen to your stereo recordings with stereo sound or MONO for monaural sound.

- Other settings in this screen are not related to playback and can be left as is.

Now, playback the tape.

See the "Play Back a Tape" section on page 9.

### Spatializer Feature

This feature allows you to enhance the stereo sound so that it seems to completely surround you.

**Note:** Your VCR needs to be hooked up to a stereo TV or stereo amp/receiver with speakers (see page 14). For playback, tapes must be recorded in Hi-Fi stereo. For TV viewing, programs must be broadcast in stereo.

Set  **k** to: ●, or ●● for medium, or maximum effect.

Then, set  **k** to OFF when not using this feature.

Portions of this product manufactured under a license from Desper Products, Inc. SPATIALIZER, and the circle-in-square device are trademarks owned by Desper Products, Inc.

### 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 "STEREO" is selected in the SET AUDIO MODE screen, the MONO indicator will not appear on-screen regardless if a mono broadcast is being received.
- If the Stereo broadcast is weak and display flickers, you may get better results if you select MONO as the AUDIO MODE in step 3, left.
- In order to listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or stereo amp and speakers. (See page 14.)
- When adjusting the tracking during playback, the Hi-Fi audio sound may revert to normal audio sound. This is normal.
- There may be a difference in audio level between Hi-Fi and normal audio playback.

# VCR Plus+ Set Up

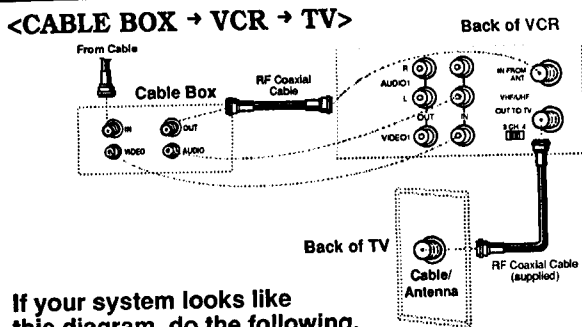
This setup is for VCR Plus+ and timer programming only. For TV/Cable Box Universal Remote Control operation, please see page 21.

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

In order for your VCR to do a VCR Plus+ recording (see top of page 18 for explanation of VCR Plus+), or a timer recording of cable stations, some setup is required. At first, find the antenna or cable connection that matches yours. Then, follow the instructions below your connection.

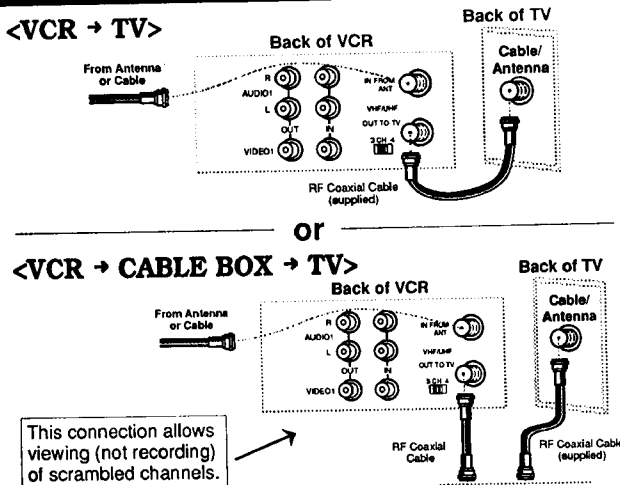
**Choose your Connection Type**  
(Then, follow the instructions under the diagram.)

## Connection type A



- If your system looks like this diagram, do the following.
1. Complete the "Cable Box Set Up" section on page 17.
  2. If your cable box is remote controllable, complete the "VCR Plus+ Channel Set Up" section on page 18. If not, you may skip page 18.
  3. Turn to page 19 for VCR Plus+ Programming.

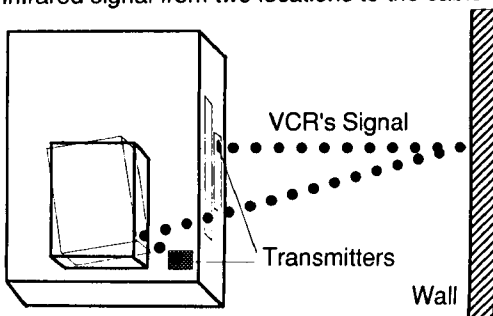
## Connection type B



- This connection allows viewing (not recording) of scrambled channels.
- If your system looks like one of these, do the following.
1. Skip the "Cable Box Set Up" section on page 17 and turn to page 18.
  2. Complete the "VCR Plus+ Channel Set Up" section on page 18.
  3. Turn to page 19 for VCR Plus+ Programming.

## Positioning Your Cable Box (If your Cable Box is controlled by a wireless remote.)

Position your cable box as shown in the diagram. Be sure not to cover up the transmitter window. The VCR transmits an infrared signal from two locations to the cable box.



## Cable Box Code Numbers (Refer to this list in step 8 on page 17.)

Archer	29, 44, 76
Archer	42, 44
Cableview	42, 44
Citizen	42, 44
Curtis	08, 09, 56, 61
Diamond	29, 44, 76
Drake	37, 67, 71
Eagle	13, 20, 21, 22, 23, 25, 58, 62
Eastern	28
GC Brand	42, 44
Gemini	4, 30
General Electric	57
General Instruments	01, 02, 03, 04, 55, 75, 83
Hamlin	14, 15
Jerrold	01, 02, 03, 04, 55, 75, 83
Macom, Hitachi	31, 79, 80
Magnavox	13, 20, 21, 22, 23, 25, 26
Movietime	32, 60
Movietime	38, 39, 40
NSC	38, 39, 40
Oak	10, 11, 12, 13, 46, 47
Panasonic	06, 16, 17
Philips	13, 20, 21, 23, 24
Pioneer	05, 06
Pulser	42, 44
RCA	06, 16, 17
Realistic	51, 53
Regal	14, 23, 41
Regency	28
Rembrandt	32, 60
Salora	68, 72
Samsung	04, 06, 42, 78
Scientific Atlantic	08, 09, 56, 61
Sheritech	27
SL Marx	04, 06, 42, 78
Sprucer	06, 16, 17
Stargate	04, 06, 42, 78
Stargate	42, 44
Sylvania	19
Telecaption	77
Teknika	54, 74
Televue	04, 06, 42, 78
Texscan	18, 19
Tocom	33, 34, 48, 49, 73
Toshiba	36, 66, 70
Uniden Satellite	65, 69
Unika	29, 44, 76
Unika	42, 44
Universal	43, 52, 63, 82
Viewstar	13, 20, 21, 22, 23, 25, 58, 62
Vid Tech	64
Vidter	64
Videoway	07, 45, 50, 59
Zenith	07, 45, 50, 59



# VCR Plus+ Set Up

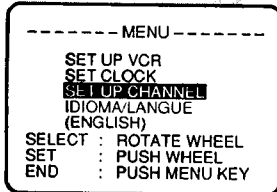
This setup is for connection A on page 16 only.


If you receive channels through a cable box, it is necessary to establish a link with the VCR. This is done by entering the cable box output channel (the channel that you tune your TV to in order to watch cable stations) into the VCR's memory. If your cable box is remote controllable, it may be possible for the VCR to automatically change cable box channels for VCR Plus+ and Timer recordings.

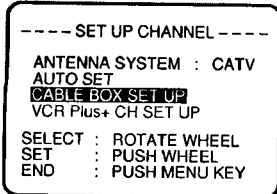
## Cable Box Set Up For connection A (on page 16) only

If your cable box is remote controllable, place it on top of the VCR as shown on page 16.

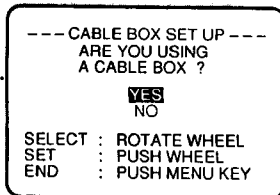
**1** Press  **9** to display the menu.




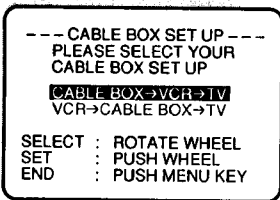
**2** Use  **24** to first, select SET UP CHANNEL, and then, to select CABLE BOX SET UP.




**3** Select **YES** if you are using a cable box and continue with step 4. Select **NO** if you are not using a cable box. Then, press MENU twice and turn to page 18.

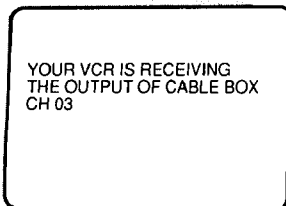
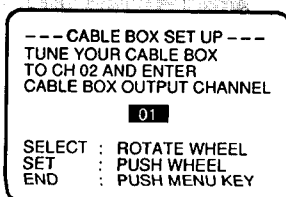


**4** Use  **24** to select your cable box set up. If you selected "CABLE BOX → VCR → TV", continue with step 5. If not, press MENU twice and turn to page 18.




**5** Turn on the cable box and manually set it to channel 02. in preparation for step 9.

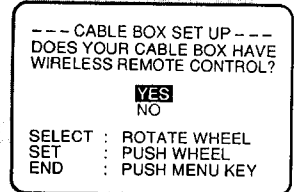
**6** Use  **24** to change the displayed number to your cable box output channel (the channel you tune your TV to in order to watch cable stations). If necessary, refer to your cable box manual.




- This screen appears for your confirmation. (Channel shown is example only.)
- If you are using Audio/Video jack connection for your cable box, select and set "VIDEO OUT" as the output channel.

## Cable Box Set Up (continued)


Press  **9** (or wait 5 seconds) to display the next screen.



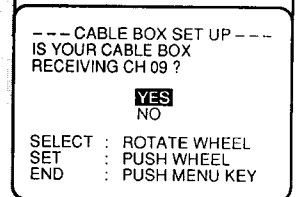
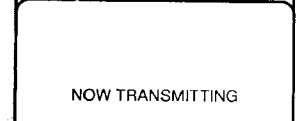
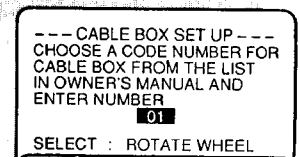
**7** Then, use  **24**

Select **YES** if your cable box is controlled by a remote control and continue with step 8.

Select **NO** if your cable box is not remote controllable. CABLE BOX CONTROL IS NOT AVAILABLE appears on-screen. Now, press MENU twice to exit and turn to page 19.

**8** Use  **24**

to select and enter the Cable Box Code number that matches your brand from the list on page 16.



Use  **24**

Select **YES** if channel 02 on the cable box changes to channel 09. CABLE BOX SET UP COMPLETED appears on screen.

Select **NO** if nothing happens. Try entering the different cable box codes assigned to your brand and/or repositioning the cable box as shown on page 16. If the answer is still NO, cable box control is not available. Finish up with step 10 and turn to page 19.

**9** Press  **9** once or twice to return to the normal screen.

**10** If you selected YES in step 9, complete the steps on page 18.

### Helpful Note

- Make each entry within 5 minutes in steps 6 and 8, and within 60 seconds for other steps, or the VCR will leave this mode.

More You Can Do

# VCR Plus+ Set Up

This setup is for connection A on page 16 only.


If you receive channels through a cable box, it is necessary to establish a link with the VCR. This is done by entering the cable box output channel (the channel that you tune your TV in order to watch cable stations) into the VCR's memory. If your cable box is remote controllable, it may be possible for the VCR to automatically change cable box channels for VCR Plus+ and Timer recordings.

## Cable Box Set Up For connection A (on page 16) only

If your cable box is remote controllable, place it on top of the VCR as shown on page 16.

**1** Press  **9** to display the menu.


----- MENU -----  
SET UP VCR  
SET CLOCK  
**SET UP CHANNEL**  
IDIOMA/LANGUE  
(ENGLISH)  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

**2** Use  **24** to first, select SET UP CHANNEL, and then, to select CABLE BOX SET UP.

----- SET UP CHANNEL -----  
ANTENNA SYSTEM : CATV  
AUTO SET  
**CABLE BOX SET UP**  
VCR Plus+ CH SET UP  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY


**3** Select **YES** if you are using a cable box and continue with step 4. Select **NO** if you are not using a cable box. Then, press MENU twice and turn to page 18.

--- CABLE BOX SET UP ---  
ARE YOU USING  
A CABLE BOX ?  
**YES**  
NO  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

**4** Use  **24** to select your cable box set up. If you selected "CABLE BOX → VCR → TV", continue with step 5. If not, press MENU twice and turn to page 18.

--- CABLE BOX SET UP ---  
PLEASE SELECT YOUR  
CABLE BOX SET UP  
**CABLE BOX → VCR → TV**  
VCR → CABLE BOX → TV  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

**5** Turn on the cable box and manually set it to channel 02. in preparation for step 9.


**6** Use  **24** to change the displayed number to your cable box output channel (the channel you tune your TV to in order to watch cable stations). If necessary, refer to your cable box manual.

--- CABLE BOX SET UP ---  
TUNE YOUR CABLE BOX  
TO CH 02 AND ENTER  
CABLE BOX OUTPUT CHANNEL  
**01**  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

YOUR VCR IS RECEIVING  
THE OUTPUT OF CABLE BOX  
CH 03

- This screen appears for your confirmation. (Channel shown is example only.)
- If you are using Audio/Video jack connection for your cable box, select and set "VIDEO OUT" as the output channel.

## Cable Box Set Up (continued)


Press  **9** (or wait 5 seconds) to display the next screen.

--- CABLE BOX SET UP ---  
DOES YOUR CABLE BOX HAVE  
WIRELESS REMOTE CONTROL?  
**YES**  
NO  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

**7** Then, use  **24**

Select **YES** if your cable box is controlled by a remote control and continue with step 8.

Select **NO** if your cable box is not remote controllable. CABLE BOX CONTROL IS NOT AVAILABLE appears on-screen. Now, press MENU twice to exit and turn to page 19.

**8** Use  **24**

to select and enter the Cable Box Code number that matches your brand from the list on page 16.


--- CABLE BOX SET UP ---  
CHOOSE A CODE NUMBER FOR  
CABLE BOX FROM THE LIST  
IN OWNER'S MANUAL AND  
ENTER NUMBER  
**01**  
SELECT : ROTATE WHEEL  
NOW TRANSMITTING

Use  **24**

**9** Select **YES** if channel 02 on the cable box changes to channel 09. CABLE BOX SET UP COMPLETED appears on screen.

Select **NO** if nothing happens. Try entering the different cable box codes assigned to your brand and/or repositioning the cable box as shown on page 16. If the answer is still NO, cable box control is not available. Finish up with step 10 and turn to page 19.

--- CABLE BOX SET UP ---  
IS YOUR CABLE BOX  
RECEIVING CH 09 ?  
**YES**  
NO  
SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

**10** Press  **9** once or twice to return to the normal screen. If you selected YES in step 9, complete the steps on page 18.

### Helpful Note


- Make each entry within 5 minutes in steps 6 and 8, and within 60 seconds for other steps, or the VCR will leave this mode.

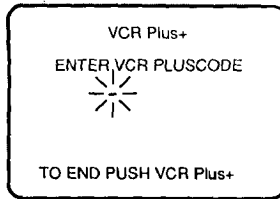
More You Can Do

# VCR Plus+ Programming

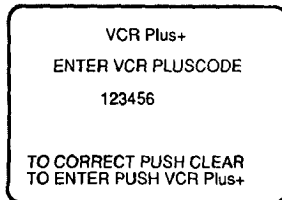
Before you begin, make sure ...


- The clock is set.
- VCR Plus+ Set Up is complete (See pages 16, 17, 18).

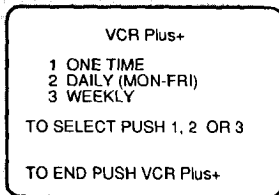
**1** Press  **12** to display the VCR Plus+ screen.



**2** Press the NUMBERED Keys to enter the PlusCode number from your local TV listings.



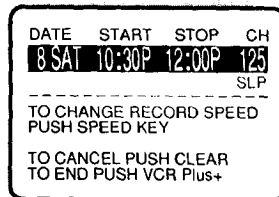
**3** Press  **12** to lock in your program.



**4** Press the 1, 2 or 3 Key to select a ONE TIME, DAILY (MON-FRI) or WEEKLY recording.


## To change the recording speed:

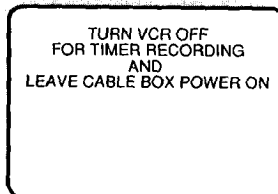
Press the SPEED button for SP, LP or SLP.




## To cancel program contents:

Press the CLEAR button.

**5** Press  **12** to complete the program. This display may differ depending on your cable box hook-up.



**6** Press  **2** off to set the timer. Leave your cable box turned on.

### VCR Front Panel



The TIMER indicator lights in the Multi Function Display.

## Important:

- Whether or not your cable box can be controlled by the VCR, be sure to leave the cable box turned on for VCR Plus+ or timer recording.
- If your cable box cannot be controlled with the VCR, make sure it is tuned to the desired channel for VCR Plus+ or timer recording.

## To Make Corrections

In step 2,

Press  **25** repeatedly to delete the PlusCode number.

Then, enter the correct number.

## Use normal Timer Recording steps if:

- the PlusCode for a program is not listed.
- you anticipate the program, such as a sporting event, to run over the scheduled stop time.

## See pages 12 and 13 to:

- Cancel a timer recording in progress
- Review or Clear program contents once set
- Replace program contents

## Helpful Notes:

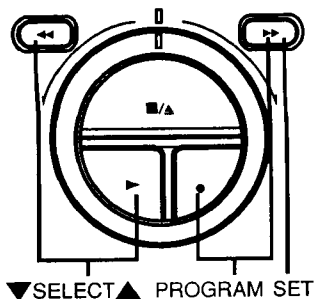
- If you use "A" connection on page 16, but your cable box cannot be controlled with the VCR, the channel shown in the on-screen display in step 4 will always be the cable box output channel number.
- For a list of publications that carry the PlusCode numbers in your area, call 1 - 800 - 258 - 4827.
- You can obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs approximately \$.95 per minute.
- Avoid overlapping program times.
- An on-screen display will indicate if an invalid PlusCode number has been entered.
- An on-screen display will indicate when all timer programs are full.



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

# Set a Timer Recording at the VCR

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

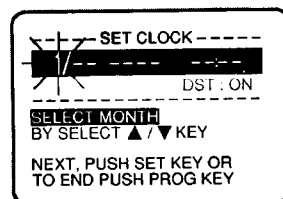
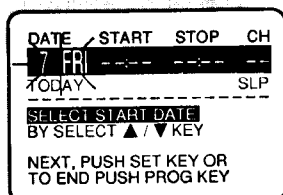
A timer recording can be set up using the buttons on the VCR. If necessary, the clock can also be set.



**Hold down**   
**and press**   
 to enter the program mode.

**1**

• If the clock is not set, pressing these buttons will display the SET CLOCK screen. In this case, proceed with step 2 to set the clock and then to set a timer recording.




## Helpful Notes

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

**Press**  (for up)


**or**  (for down)  
 to make your selection.

**2**



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

When the program is completed,

**3**

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

**4**

**Press**  and  **again**  
 to return to the normal screen.

**Or,**  
**repeat steps 2 and 3** to set the next program.

# Multi-Brand Control Feature

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

**1** Find your TV Brand Code Numbers from the chart below or Cable Box Brand Code Numbers from the chart at right.

Hold down



(On this remote.)

or



**2** and enter your TV or Cable Box brand code number using the NUMBERED keys.

- Due to changes in infra-red commands used by some manufacturers, some TV or Cable Box brands are listed more than once. If your TV or Cable Box does not respond in step 3 with the first code, please try entering the next code.

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

**3** (TV) POWER ON/OFF  
CHANNEL UP/DOWN  
VOLUME UP/DOWN

(Cable Box) POWER ON/OFF  
CHANNEL UP/DOWN

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

## TV Brand Code Numbers

Panasonic	01, 02
Quasar	01, 02
RCA	03
GE	03
Zenith	04
Magnavox	05
Sylvania	05
Sharp	06, 07
Sony	08
Toshiba	09
Sanyo	10
Fisher	10
JVC	11
Hitachi	12
Mitsubishi	13
Samsung	14
Gold Star	15, 16, 17

## Cable Box Brand 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
Hitachi	31, 79
Jerrold	01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95
Macom	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

More You Can Do


## Helpful Notes


- Please repeat the TV/ Cable Box Set Up procedure when you replace the remote's batteries.
- The remote control is designed to control the brands listed. However, it will not operate all TVs or Cable Boxes made by these manufacturers. If you get no results, your particular product brand cannot be controlled by this remote.

# Tape Operation

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

## Shuttle Search

**1** Turn the **SHUTTLE Ring**  on the VCR while in Play or Still mode to place the VCR in Shuttle mode and start a forward or reverse search.

- The Shuttle indicator lights. 
- The more you turn the Ring, the faster the search speed will be.

**2** Press a function button such as: **PLAY**, **STOP**, etc. on the VCR or remote to release the Shuttle mode.

- The VCR performs the function of the button pressed.
- The Shuttle indicator goes out.

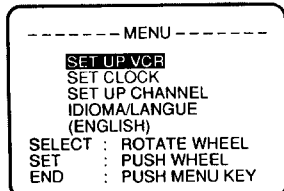
### Notes


- When the **SHUTTLE Ring** is turned more than half way in Stop mode, normal Fast Forward or Rewind will begin.
- Some noise bars are normal during Shuttle operation.
- After 3 minutes in Still or Slow, the VCR will go into Stop mode.
- When the **SHUTTLE Ring** is released, the VCR goes into Still mode.

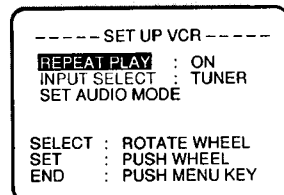
## Repeat Play

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

**1** Press  **9** to display the menu.



**2** Use  **24** to first, select **SET UP VCR** from the menu and then, to select **REPEAT PLAY : ON**.



**3** Press  **9** twice to leave this screen.

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

### Notes

- When **REPEAT PLAY : "ON"** is selected, the 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 VCR will automatically rewind the tape and play it again and again until you cancel repeat play.
- All function buttons (**REW**, **FF**, etc.) are operational during Repeat Play.


## One Minute Skip

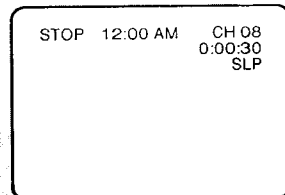
With this feature, you can skip over commercials recorded on a tape.


Press  **5** in Play mode.

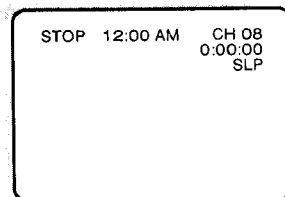
The VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.


## Zero Search

**1** Press  **11** to display the Time Counter overlay.



**2** Press  **15** to reset the Time Counter to 0:00:00 at whatever point you wish on the tape.



**3** Press  **5** in Stop mode. The 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 (Auto). If the record tab\* is removed, playback begins (Auto).

### Auto Rewind

After a tape reaches its end during playback, fast forward or manual record, the 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 VCR will rewind and then eject the tape.

### Memory Rewind Off

When the **POWER** button is pressed during rewind, the VCR will turn off after rewind is complete.

### Eject Cassette

A cassette may be ejected with power on or off.

\* For record tab information, see page 23.

# VCR and Cassette 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**

### Clogged Video Heads

Your 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.

### Cleaning the Heads

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.

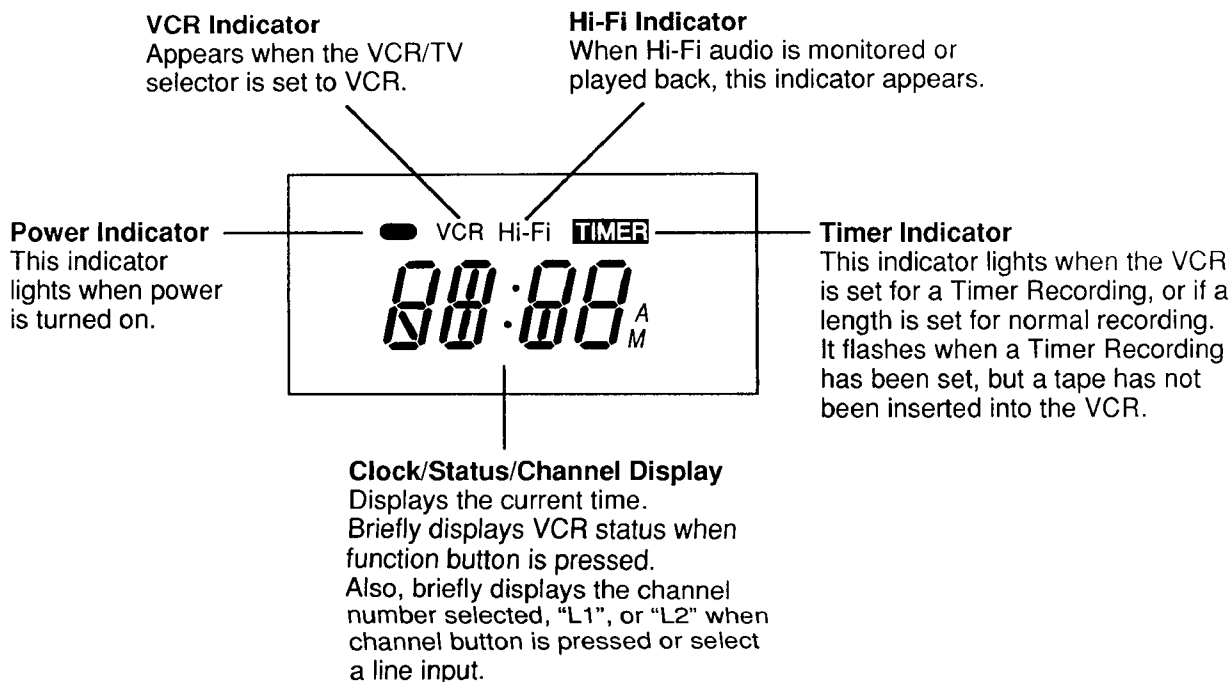
More You Can Do

**Product Specifications**

<b>Power Source:</b>	120V AC, 60 Hz
<b>Power Consumption:</b>	Approx. 23 watts
<b>Video Signal:</b>	EIA Standard NTSC color
<b>Video Recording System:</b>	4 rotary heads helical scanning system
<b>Audio Track:</b>	1 track (Normal) 2 channels (Hi-Fi Audio Sound)
<b>Tuner:</b>	
<b>Broadcast Channels:</b>	VHF 2~13, UHF 14~69
<b>CATV Channels:</b>	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
<b>Operating Temperature:</b>	41°F~104°F (5°C~40°C)
<b>Operating Humidity:</b>	10%~75%
<b>Weight:</b>	8.4 lbs. (3.8 Kg)
<b>Dimensions:</b>	14-15/16" (W) X 3-1/2" (H) X 11-1/4" (D) 380 (W) X 89 (H) X 285 (D) mm

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

**Multi Function Display**





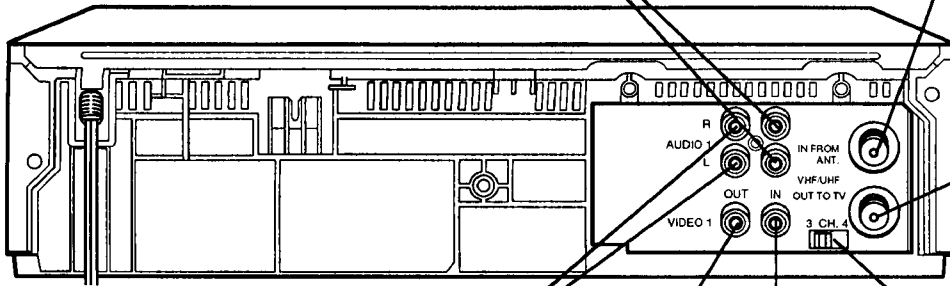
## Rear View of the VCR

### Audio Input Connector (L/R)

For audio input connection from a camcorder, another VCR or the output connector of another audio source.

### VHF/UHF Antenna Input Terminal

In from your Antenna or Cable.



### VHF/UHF Antenna Output Terminal

Connect to the VHF/UHF Input Terminal of your TV.

### Audio Output Connector (L/R)

For connection to the audio input connector on a stereo TV, another VCR or an audio stereo amp.

### Channel 3/4 Switch

Set to channel 3 or 4 (whichever is not used for regular TV broadcasting in your area) to use your TV as a screen for your VCR.

### Video Output Connector

For video output connection to monitor TV or another VCR.

### Video Input Connector

For video input connection from another VCR or portable camcorder.

More You Can Do

# Before Requesting Service

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

Power	Correction
No power...	<ul style="list-style-type: none"> <li>• Check that the Power Plug is completely connected to an AC outlet.</li> <li>• Check that the POWER button is set to on.</li> </ul>
Recording & Playback	Correction
<p>TV program can't be recorded...</p> <p>Timer recording can't be performed...</p> <p>There is no playback picture, or the playback picture is noisy or contains streaks...</p> <p>During special effects playback, the picture may contain some vertical jitter when using a TV which has an Automatic Vertical Hold Control...</p> <p>If the top of your playback picture waves back and forth excessively...</p>	<ul style="list-style-type: none"> <li>• Check the connections between the VCR, the external antenna, and your TV.</li> <li>• Check that the band selected matches your antenna or cable TV system. (P.6)</li> <li>• Make sure that the record tab on the back of the cassette is still intact. (P.23)</li> <li>• Set the recording start/stop times correctly. (P.12)</li> <li>• Make sure that the POWER button is set to off. (P.12)</li> <li>• 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.</li> <li>• Select the same channel on your TV as that of the Channel 3/4 switch located on the rear panel of the VCR. (Separate Connection Guide)</li> <li>• Set the VCR/TV selector to "VCR". (P.9)</li> <li>• Check that channel 3 or 4 of the TV is properly adjusted.</li> <li>• Adjust the TRACKING control slowly in either direction. (P.9)</li> <li>• Set the TV's Vertical Hold Control to "MANUAL" and then adjust it.</li> <li>• Because the VCR playback signal is not as stable as an off-the-air TV signal, the top of your TV screen may be bent or unstable during playback. To solve this problem, slowly turn the horizontal hold control on your TV to correct the wavy picture. If your TV does not have a horizontal hold control or adjusting the control does not help, please contact your local TV service center.</li> </ul>

<b>Remote Control</b>	<b>Correction</b>
<p>VCR can't be remote controlled...</p>	<ul style="list-style-type: none"> <li>• Aim the Remote Control directly at the remote sensor on the VCR. (Refer to Control Reference Guide.)</li> <li>• Avoid all obstacles which may interfere with the signal path.</li> <li>• Inspect or replace the batteries (P.2).</li> </ul>
<b>Miscellaneous</b>	<b>Correction</b>
<p>You can't view programs normally on TV...</p> <p>Video cassette can't be inserted...</p> <p>Video cassette can't be removed...</p> <p>Video cassette ejects when the REC and PLAY buttons are pressed or when the POWER button is pressed off to set the Timer...</p> <p>In the stop mode, the motor (CYLINDER) continues to rotate...</p>	<ul style="list-style-type: none"> <li>• Set the VCR/TV selector to "TV". (P.10)</li> <li>• Insert the cassette with the window side up and the record tab facing you.</li> <li>• Check that the power plug is completely connected to an AC outlet.</li> <li>• Make sure the record tab on the back of the cassette is still intact. (P.23)</li> <li>• To enable the quick play mechanism, the cylinder will rotate for about 5 minutes.</li> <li>• The quick play mechanism reduces response time from stop to PLAY mode from PLAY to REWIND search mode.</li> </ul>

# Helpful Notes on Operations

## Special Playback Features

- During search playback, horizontal noise bars will appear on the TV screen.
- After the 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.

## Basic Recording

- 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.
- After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.

## 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.

## Cable Box Control Note

- After completing the cable box control section on page 17, the VCR will automatically select the cable box input number as the channel when doing a timer or VCR Plus+ recording. If you later decide to disconnect the cable box, you need to remove the input number from memory. To do this, simply repeat steps 1, 2, and 3 of the cable box control section on page 17. In step 3, select NO in the on-screen display and then press MENU to exit the screen.

## Reset all VCR Memory Functions

This operation is convenient when moving the VCR to a new location, or if a mistake was made in the One Time VCR Setup section. Make sure a tape is not inserted in the VCR.

- 1) Turn VCR Power on.
- 2) Press and hold both Play and Rewind buttons on the VCR. (For more than 5 seconds)
  - The power will shut off.
- 3) Complete the One Time VCR Setup section on pages 4, 5.

## D.S.T (Daylight Saving Time)

### Spring

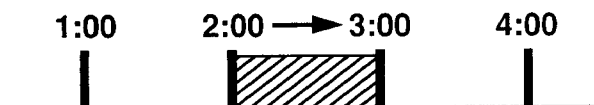
First Sunday in April (minus 1 hour)

Because the clock automatically changes from 2:00AM to 3:00AM, 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 2:30AM will actually record for 30 minutes.

A recording set to begin at 1:30AM and end at 3:30AM 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.

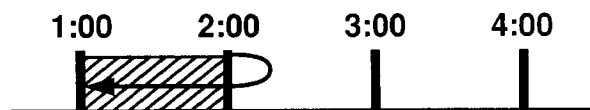
### Examples:

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

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

A recording set from 1:30AM to 2:30AM, will actually record from 1:30AM to 2:00AM and then go into the Stop mode until it becomes 1:30AM again.

The recording will then continue until 2:30AM 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.

# Spanish Quick Use Guide/Guía para rápida consulta

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

- 1 Elegir el idioma de la pantalla
- 2 Memorizar canales
- 3-5 Ajuste del reloj

**1** Oprimir  **26**  **1** (o **d** o **b**) para elegir el idioma de la pantalla en inglés o español o français.

SELECT LANGUAGE


PUSH VCR CH ▲ : ENGLISH  
 PULSE VCR CH ▼ : ESPAÑOL  
 APP. VCR/TV : FRANÇAIS

AUTOPROGRAMAR CANAL  
 CONECTE EL CABLE DE LA ANTENA. LUEGO...  
 PULSE LA TECLA VCR CH UP

• Esta pantalla aparece por unos segundos..

**2** Oprimir  **26** (o **d**) para empezar la programación automática de canales.


• Luego de memorizar los canales, aparece las siguientes indicaciones:  
 "AUTOPROGRAMACION COMPLETO"  
 "POR FAVOR FIJE EL RELOJ CON LA TECLA MENU"

**3** Oprimir  **9** para que aparezca la pantalla de fijación del reloj.

----- FIJAR RELOJ -----

**AUTO MÁTICO**  
**MANUAL**

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

**4** Oprimir  **24** para elegir la fijación automática y luego, si está usando una caja de TV por cable elija SI, y si no está usando elija NO.

----- FIJAR RELOJ -----

ESTA USTED USANDO UNA CAJA DE TV POR CABLE?

**SI**  
**NO**

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

## A) Si ud. ha elegido SI en el paso 4

**Elija su conexión de la caja de TV por cable.**

Si ha elegido "TV POR CABLE → VCR → TV", continúe con el siguiente paso.

----- FIJAR RELOJ -----

POR FAVOR ELIJA SU CONEXION DE LA CAJA DE TV POR CABLE

**TV POR CABLE → VCR → TV**  
**VCR → TV POR CABLE → TV**


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

**5** Después, fije su caja de TV por cable al canal PBS de su local y luego presione la rueda para pasar al siguiente paso.

----- FIJAR RELOJ -----

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

LUEGO : PULSE LA RUEDA

**Ahora, oprimir**  **24** para elegir y fijar el número del canal de salida de su caja de TV por cable. (El canal sintoniza su televisor en el orden para ver emisoras transmitidas por cable.)

----- FIJAR RELOJ -----

INTRODUZCA EL CANAL DE SALIDA DE LA CAJA DE TV POR CABLE


**CA 10**

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

- Si usted está utilizando una conexión de toma de audio/video para su caja de TV por cable, seleccione y ajuste "SALIDA DE VIDEO" ("VIDEO OUT") como canal de salida.

## B) Si ud. ha elegido NO en el paso 4,

o si la conexión de su caja de TV por cable es: **VCR → TV POR CABLE → TV**

**Utilice**  **24** para elegir y fijar el número de su canal PBS.

----- FIJAR RELOJ -----

POR FAVOR FIJE EL CANAL PBS DE SU LOCAL

**CA 10**

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

Estas pantallas aparecerán a continuación:

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

**NOTA:**  
 La pantalla a la derecha aparece si la fijación automática del reloj no es disponible con el canal PBS que ha elegido (intente con otro canal PBS), o si no es disponible en su area, o si algún error ha sucedido.

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO

PULSE LA RUEDA PARA FIJAR EL RELOJ

Si no se puede ajustar el reloj automáticamente, por favor fije el reloj como se describe de la siguiente página.

Other Information

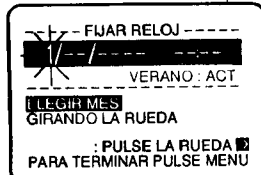
# Spanish Quick Use Guide/Guía para rápida consulta

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

## Fijación manual del reloj

**Oprimir**  **24**

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



**Luego, utilice**  **24**

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 el botón CLEAR repetidamente para retroceder o avanzar al paso que desea corregir.

**Ahora, oprimir**  **9**

para iniciar a funcionar el reloj y salir desde este modo.

## Notas útiles para la fijación automática del reloj

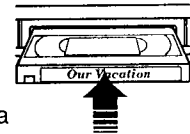
- Este dura cerca de 10 segundos para determinar si es posible o no la fijación automática del reloj. Luego, dependiendo a la compañía emisora de TV de su local, este requiere cerca de 1 a 10 minutos para fijar el reloj. Si ud. no podrá esperar, por favor presione el botón STOP y fije el reloj manualmente.

## Operación básica para la reproducción

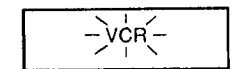
**1** **Encender el televisor.**  
**Elegir el canal de la videgrabadora** (canal 3 o 4).

- El canal de la videgrabadora es el mismo canal que ud. ha seleccionado en la parte trasera de la videgrabadora (consultar la guía para conexiones).

**2** **Introducir una cinta**



- La videgrabadora se enciende automáticamente. Comienza a reproducir si la cinta no tiene la lengüeta para evitar borrado.



Esta indicación aparece en la pantalla multifuncional.

**3** **Oprimir**  **3** (o **n**) para comenzar a reproducir.

**4** **Oprimir**  **4** (o **e**)

**o**  **17** (o **h**)

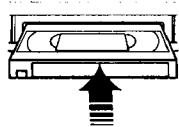
para localizar rápidamente una escena durante la reproducción.

- 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 aparece alguna barras du ruido.


**5** **Oprimir**  **18** (o **f**) para para la reproducción.

**Luego, oprimir**  **f** en la videgrabadora para expulsar la cinta.


## Operaciones básicas para la grabación

**1** Introducir una cinta con la lengüeta.  **c**


- La videograbadora se enciende automáticamente.


**2** Oprimir  **26** (o **d**) para seleccionar el canal que desea grabar.

**PARADA CA 02**

**3** Oprimir  **16** hasta que aparezca la velocidad de cinta que desea.

**SLP**


**4** Oprimir  **19** (o **n** y **p**) para empezar a grabar.

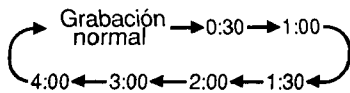
**5** Oprimir  **18** (o **f**) para parar la grabación.

## Grabación de un toque (OTR)

Ud. podrá fijar la videograbadora para parar automáticamente la grabación a una hora programada con la grabación de un toque.

En el paso 4,

oprimir sucesivamente  **19** (o **p**) para fijar el tiempo de la grabación. Cada presión cambiará el tiempo como demuestra el siguiente.




La indicación TIMER aparece en la pantalla multifuncional.

## Notas útiles

- Si mantiene oprimiendo el botón de VCR CH ▲/▼ aumentará la velocidad del cambio del canal.
- Oprimir PAUSE para hacer una pausa en la grabación en progreso.

## Programación fácil para la grabación con temporizador


**1** Oprimir  **10** para el modo de programación.

- Si ya existe una programación, elegir un número sin programación con la rueda.

**Pantalla del TV**

FECHA	INICIO	PARADA	CA
7 VE	---	---	---
HOY	---	---	SLP

ELEGIR FECHA DE INICIO GIRANDO LA RUEDA  
: PULSE LA RUEDA PARA TERMINAR PULSE PROG

**2** Girar y oprimir  **24** para elegir y fijar cada paso de la programación (fecha, hora de inicio, etc.) como aparece en la pantalla.


**Fijando la fecha**

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

Orden de selección con la rueda: SEMANAL(SAB) → 7 → 8-9...31 → SEMANAL(LUN) → SEMANAL(DOM) → DIARIA → 6 → 2


## Para hacer correcciones:

Oprimir la rueda o el botón CLEAR repetidamente para retroceder al paso que desea.


**3** Oprimir  **10** para terminar la programación.

P	FE	INIC	PARADA	CA	VEL
1	8	9:00A	12:00A	08	SP
2	---	---	---	---	---
3	---	---	---	---	---
4	---	---	---	---	---

ELEGIR 1-8 : GIRE LA RUEDA  
ENTRAR : PULSE LA RUEDA  
ANULAR : PULSE CLEAR  
TERMINAR : PULSE PROG

**4** Vuelva a oprimir  **10** para salir de este modo.

o repitiendo los pasos 2 y 3 para fijar el siguiente programa.

**5** Oprimir  **2** (o **a**) para conectar el temporizador.

La indicación TIMER aparece en la pantalla multifuncional.

**TIMER**

Other Information

# Quick Use Guide

This guide should only be used once you are familiar with the operations inside this manual. If you have any problems or need more information, please refer to the page listed.

## Manual Clock Reset (page 5)

(For Auto Clock Set, see pages 6, 7.)

Display the menu

Set the clock

Start the clock & exit this mode

## Playback a Tape (page 9)

Turn TV on  
Select VCR  
Channel 3/4

Insert a tape

Start playback

Stop playback

Eject tape

## Make a Recording (page 10)

Turn TV on  
Select VCR  
Channel 3/4

Insert a tape  
with Record Tab

Select channel

Select speed

Start recording

Stop recording

## Set a Timer Recording (page 12)

Enter the Program mode

Enter timer information

Once to finish the program, twice to exit this mode

Turn VCR off to set the timer

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

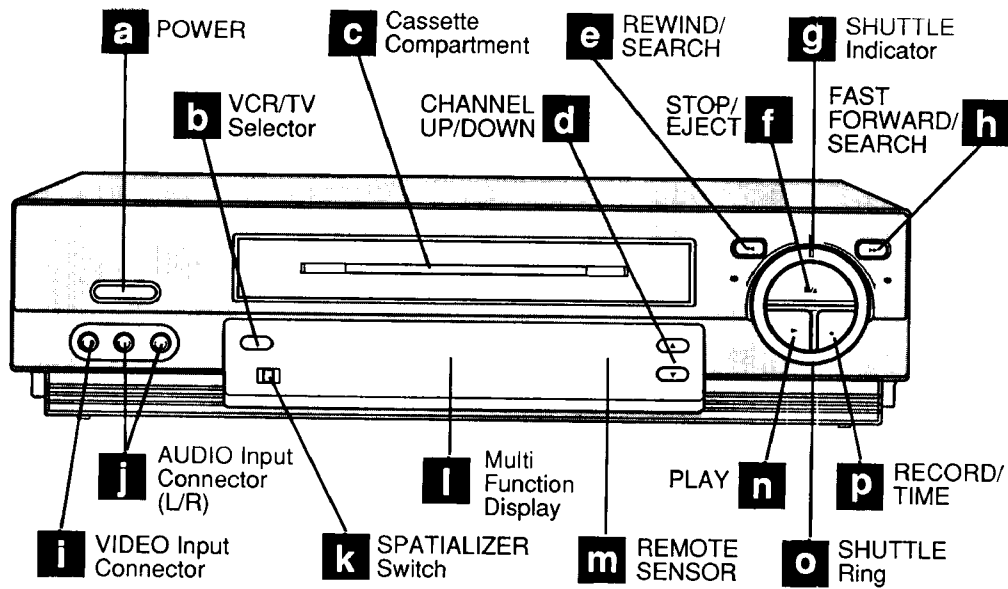
Printed in Japan  
VQTS3094 (A)



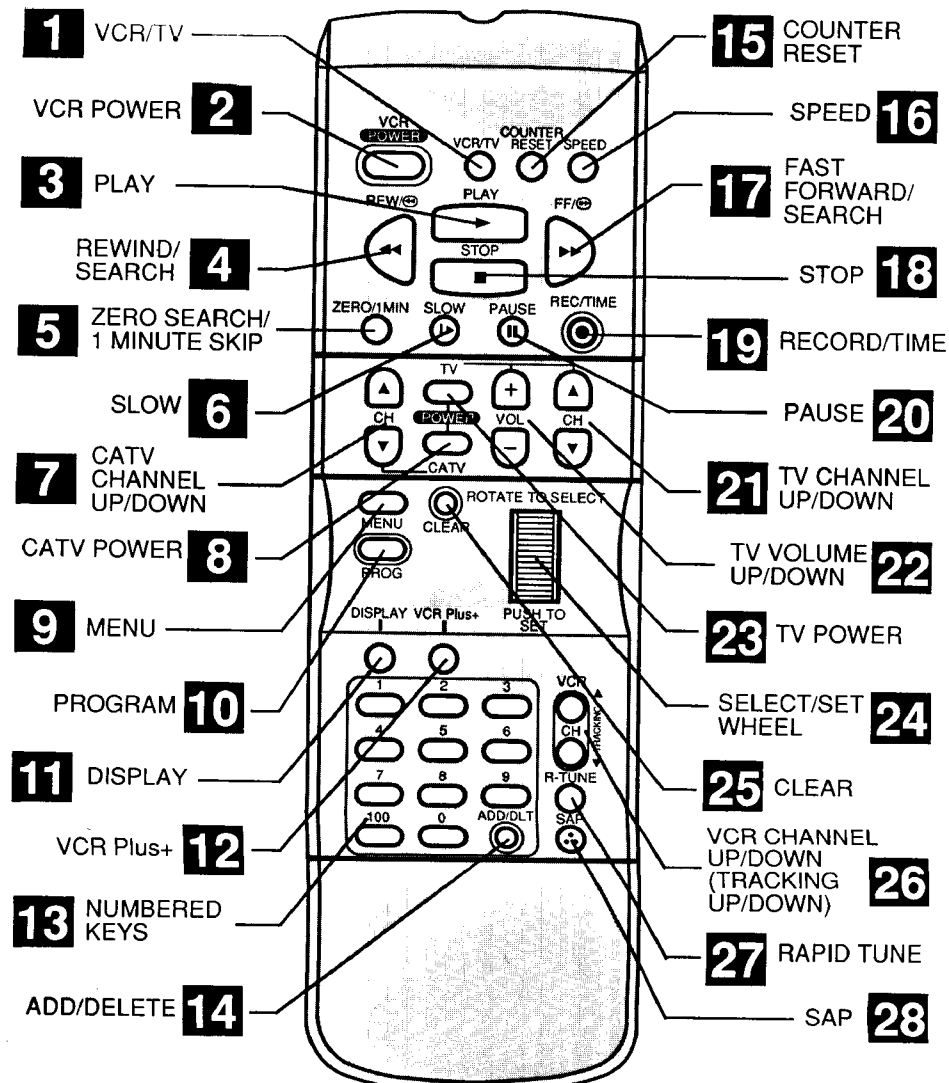


# Control Reference Guide

## 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.

# *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 VCR. You'll want to keep this manual handy as your convenient VCR information source.

Date of Purchase \_\_\_\_\_  
Dealer Purchased From \_\_\_\_\_  
Dealer Address \_\_\_\_\_  
Dealer Phone No. \_\_\_\_\_  
Model No. **PV-4564** \_\_\_\_\_  
Serial No. \_\_\_\_\_

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

