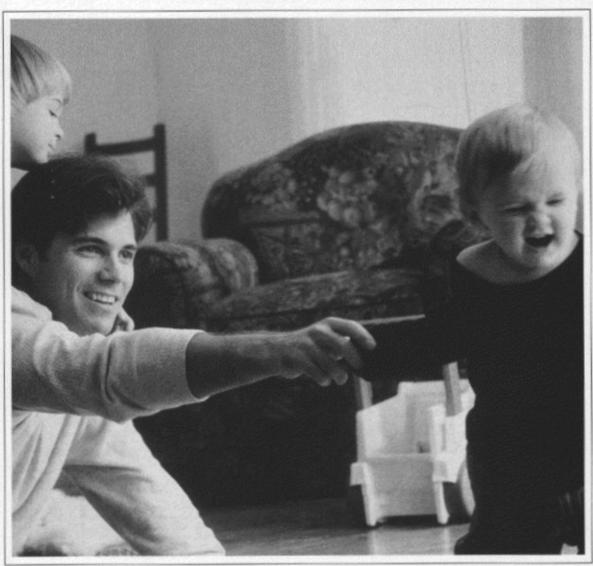
### Video Cassette Recorder



# Panasonic VHS

## **Operating Instructions**

MODELS PV-9401/PV-9451



Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included. (Guía para rápida consulta en español está incluida.)

Quick Use Guide is on the back cover.













As an ENERGY STAR® Partner,

Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY

STAR® guidelines for energy efficiency.





(PV-9401 only) (PV-9451 only)

For assistance, call 1-800-211-PANA(7262).

(energy)

## Important Safeguards and Precautions

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

#### INSTALLATION

#### **POWER SOURCE CAUTION**

Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

#### 2 POLARIZED OR GROUNDING PLUG

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

#### RIZED PLUG CAUTION:

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

#### **GROUNDING PLUG CAUTION:**

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

#### 3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided.

#### DO NOT BLOCK VENTILATION HOLES

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

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

#### **AVOID EXTREMELY HOT LOCATIONS OR** SUDDEN TEMPERATURE CHANGES

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

### TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

### **OUTDOOR ANTENNA INSTALLATION**

#### SAFE ANTENNA AND CABLE CONNECTION

If an outside antenna or cable system is connected to the equipment. NEC - NATIONAL ELECTRICAL CODE be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges Charges and vollage surges.
Section 810 of the National
Electrical Code, ANSI/NFPA 70
(in Canada, part 1 of the Canadian
Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection

to grounding electrodes and requirements for the grounding electrode. 2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES

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

#### **USING THE VIDEO UNIT**

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

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

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

### WHEN THE UNIT IS PLUGGED IN

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

#### 5 USING ACCESSORIES

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

#### **CLEANING THE UNIT**

Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock.

Any substance such as wax, adhesive tape, etc. may mar the cabinet surface.

Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

### SERVICE

### DO NOT SERVICE THIS PRODUCT YOURSELF

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

#### 2 IF REPLACEMENT PARTS ARE REQUIRED

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

HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

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

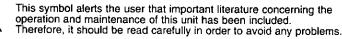
## Safety Precautions

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





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.



## **Table of Contents**

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Enjoy more!	Advanced Connections (Cable/DSS, Audio/Video)       10, 11         Timer Recording       12, 13         • Timer Recording       • Review, Replace or Clear         Using VCR Buttons       12         Program Contents       13         Timer Recording Using VCR Plus+ System       14 ~ 17         • Choose your connection type       14       • VCR Plus+ System Channel Setup       16         • Cable Box Setup       15       • Programming       17         Multi-Brand Control Feature       18, 19         Tape Operation       20 ~ 22         • VHS Index Search System       20, 21       • Zero Search       22         • Auto Operation Functions       21       • One Minute Skip       22         • Repeat Play       22         • Repeat Play       22         Copying Your Tapes (Dubbing)       23         MTS Broadcast/ VHS Hi-Fi Stereo System       24, 25         (For model PV-9451 only)       • Select Audio Mode       25         • Special VCR Features       26 ~ 31         • Channel Caption       26, 27       • VCR Lock       30         • Time Stamp       28, 29       • Weak Signal Display ON/OFF       31         • Auto Shut-Off       31         • Auto Shut-Off
Other Information!	Reset Language, Channel, Clock

## Before Using

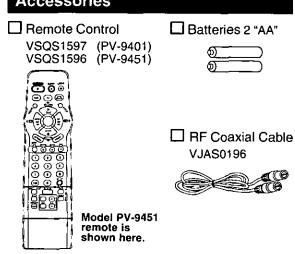
## Basic Connection

## **Congratulations**

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your VCR.

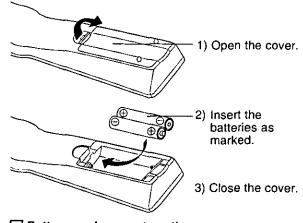
Date of Purchase	
<ul> <li>Dealer Purchased From</li> </ul>	
Dealer Address	
Dealer Phone No	
• Model No	
• Serial No	



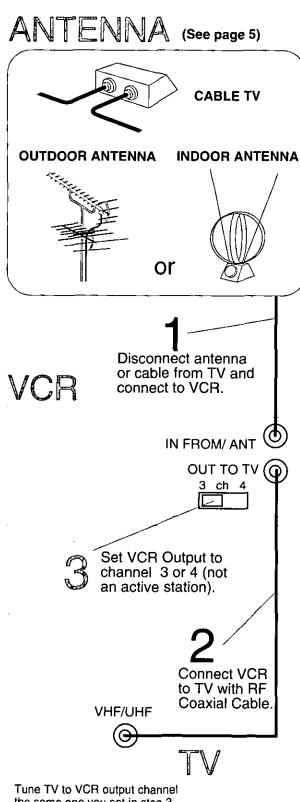


To order accessories, call toll free 1-800-332-5368.

## Loading the Batteries



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



the same one you set in step 3.

#### WARNING -

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

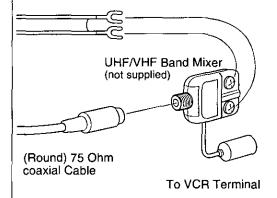
## Between ANT. and VCR

## ■ Case 1: Twin Lead Cable Only

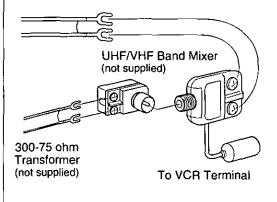
From Antenna
300-75 ohm

(Flat) Twin Lead 300 Ohm Cable Transformer (not supplied)

### ■ Case 2: Twin Lead & Coaxial Cables



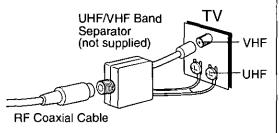
#### Case 3: Two Twin Lead Cables



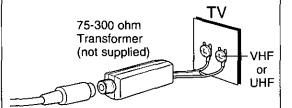
 If your TV has both post and plug-type VHF terminals, the post connection is recommended to minimize signal loss.

## 2 Between VCR and TV

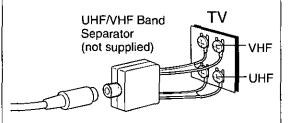
■ Case 1: Screw & Plug Type Terminal



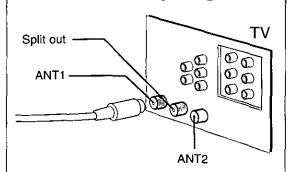
Case 2: Screw Type Terminal



■ Case 3: Double Screw Type Terminal



■ Case 4: Complex TV Terminal TERMINALS ON BACK OF TV SET

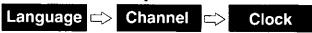


 Connect to one of the ANT terminals and select the same antenna number on the TV.

## One Time VCR Setup

When VCR is turned on the first time, setup mode is entered automatically.

## **Process of Setup**



POWER O

Turn the TV and VCR on. Press POWER.

Rear of VCR (PV-9451 only)

CH3 or CH4

Tune to VCR output channel. Tune TV to CH3 or CH4. (Same as back of VCR)

- Always tune TV to this channel to monitor the VCR.
- If you used audio/video jack connection, tune the TV to its video input.

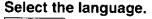
SELECT LANGUAGE

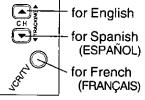
PUSH VCR CH A: ENGLISH

OPRIMIR VCR CH Y: ESPAÑOL

APP. VCR/TV : FRANÇAIS

(TV Screen)





- Use remote or VCR buttons.
- If wrong language is set, do "Reset All VCR Memory Functions" steps page 34.

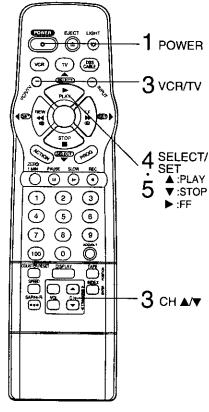
SELECT HOOKUP
CABLE/DSS BOX>VCR>TV
VCR>CABLE/DSS BOX>TV
VCR>TV





- Select hookup.
- Press ▲▼ to select.
- 2) Press ► to set.
- If you selected "CABLE/ DSS BOX

  ► VCR ► TV," continue with step 5
   and only the cable box output
   channel will be placed in memory.
   If not, go to step 7.



Model PV-9451 remote is shown here.

SELECT HOOKUP
CABLE/DSS BOX PVCR TV

CABLE/DSS BOX OUTPUT CH
CHEOT

SELECT: A V KEY

SELECT: A ▼ KEY SET : ◀ ► KEY END : ACTION KEY



### Select cable box or DSS receiver output channel.

- Press ▲▼ to select.
- Press ► to enter.
- If necessary, refer to cable box manual.
- If you used Audio/ Video jack connection to cable box, set "VIDEO OUT".

## Turn on cable box and set it to PBS channel in your time zone.

If you use DSS receiver, it must be turned off.

## IMPORTANT NOTE FOR AUTO CLOCK SET

- Auto clock set is performed the first time the VCR is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time VCR power is turned off if you want auto clock set to be done.
- If used, a DSS receiver must be turned off for auto clock set.
- If Cable Box or DSS receiver is connected to VCR via Audio/Video jacks, an RF coaxial cable must also be connected for auto clock set and channel auto set features.

### CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PUSH CH UP KEY

### Start Channel Auto Set and Clock Auto Set.



Press CH A.



CH AUTO SET PROCEEDING



AUTO CLOCK SET PROCEEDING



(Setup completed)

1/ 4/2000 TUE 12:00PM DST:ON SETTING : CH 02

> AUTO CLOCK SET COMPLETED

END : PUSH CH UP KEY



Press CH A to exit.

· If your area observes DST (daylight saving time), but the time is incorrect; do the "Time Zone Adjust" steps on page 33.



Case 2

(Setup incomplete)

AUTO CLOCK SET 1S INCOMPLETE

PUSH ACTION TO SET CLOCK

SET CLOCK --

ACTION KEY

SELECT MONTH

END

SELECT: ▲ ▼ KEY ▶ KEY

DST: ON

Clock Setup incomplete. Set the clock manually.



1) Press ACTION.



- Press ▲▼ to select month.
- Press ► to set.
- Likewise, set date, year, time, DST (Daylight Saving Time).

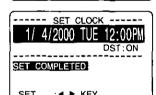
To Make Corrections,

repeatedly press < to move to error, then correct.



4) Press ACTION. (Clock starts.)

To exit this mode, press ACTION again.



START : ACTION KEY

### Notes

- VCR calender is accurately maintained to Dec. 31, 2096 11:59PM.
- · Channel auto set selects normal TV or Cable channels depending on your VCR hookup.



Using **▲▼**◀▶ keys You can also operate the menu screen using VCR buttons.

If you use VCR buttons, press CH ▲ and CH ▼ together to display the menu screen.

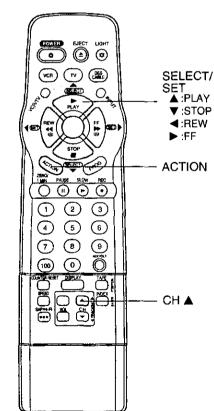
When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as **△▼**◀► only.



■: REW ▶ : FF



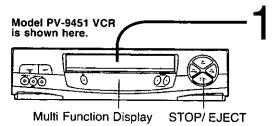




Model PV-9451 remote is shown here.

## Playback a Tape

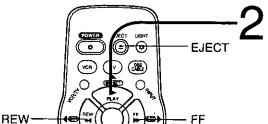
- Check list before you begin.
- All connections are made.
- TV and VCR are plugged in.
- TV is turned on and set to the VCR channel (CH 3 or 4).
- ☐ Remote is in VCR mode.





### Insert a cassette.

 VCR power comes on and VCR appears on Multi Function Display.

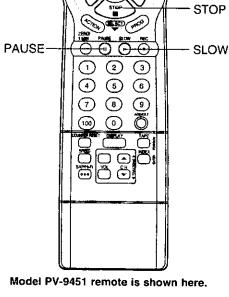


### Press PLAY.

- Playback begins if cassette has no record tab.
- To Find a Particular Scene Forward Search --> Press FF. Reverse Search --> Press REW.
- For Slow Motion --> Press SLOW. (To release, press SLOW.)
- For Still (Freeze) picture --> Press PAUSE. (To release, press PAUSE.)
- For Frame by Frame picture --> Press SLOW in Still mode. (To release, press PAUSE.)

**Notes** 

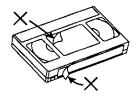
- To reduce picture noise, see "Manual Tracking Control" on page 35.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.
- To stop --> Press STOP.
- To rewind tape --> Press REW in Stop mode.
- To fast forward tape --> Press FF in Stop mode.
- To eject tape --> Press EJECT on the remote or STOP/ EJECT on the VCR.

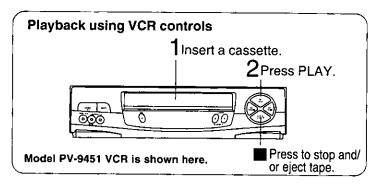


### Note

### To prevent tape jam

Inspect your cassette tapes and remove any loose or peeling labels.





## <u>Record On a Tape</u>

00

Multi Function Display

(\*)

(cage)

3

5

8 9

6

VCR/TV

STOP

PAUSE

SPEED

3

\*Important:

Model PV-9451 VCR is shown here.

0

If the remote control POWER, ACTION, PROG, CH ▲/▼, INDEX, NUMBERED keys, INPUT, TAPE POSITION, or ADD/ DLT button does not work when pressed, press the VCR button on the remote and try the button again.

Record tab

Check list before you begin.

All connections are made.

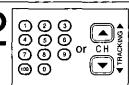
TV is turned on and set to the VCR channel (CH 3 or 4).

☐ Cassette with record tab in place.

Remote in VCR mode.

Insert a cassette.

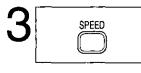
 VCR power comes on automatically.



Select Channel.

Press CH ▲/▼\* or NUMBERED keys.

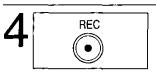
- To select "LINE", see page 23.
- To select channels over 100. first press 100 key, then enter remaining two digits.



Select Recording speed.

(See page 34.)

- Press SPEED. SP = Standard Play
  - LP = Long Play SLP = Super Long Play
- Selected speed is displayed on TV screen and Multi Function Display.



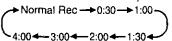
Start Recording.

Press REC.

- To edit out unwanted portions. press PAUSE to pause and resume recording.
- To stop --> Press STOP
- One Touch Recording

Press REC repeatedly to set the recording length (30 min. ~ 4 hours).

The VCR turns itself off at a preset time.



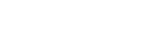
Record One Program While Watching Another Press VCR/TV--> "VCR" disappears on Multi Function Display

--> Select Channel at the TV.

Selecting Channel at the VCR

Press VCR/TV--> "VCR" appears on Multi Function Display --> Select Channel at the VCR.

## You can operate on the VCR VCR/TV 4 Model PV-9451 VCR is shown here. Press to stop.



Model PV-9451 remote is shown here.

### Note

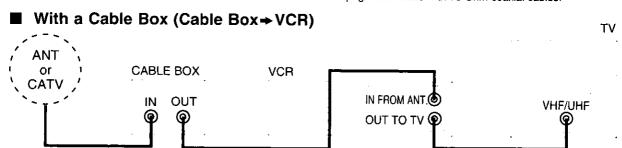
After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.

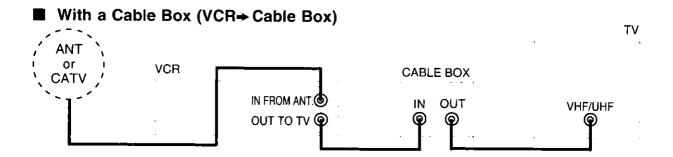
## Advanced Connections

## **CATV** Connection

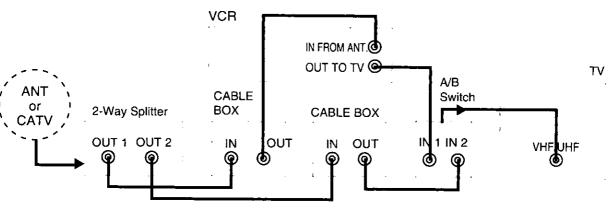
Make sure to tune TV to VCR output channel the same one you set on back of VCR: CH3 or CH4.

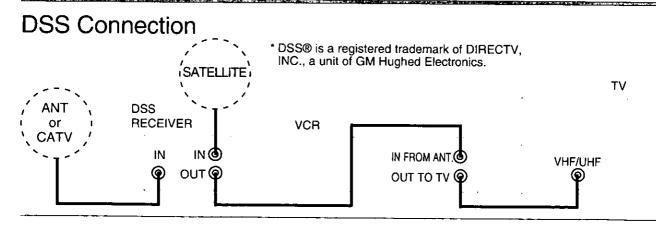
All connections on these pages are made with 75 Ohm coaxial cables.





### **■** With Two Cable Boxes





### You Can

- · record or view any (including scrambled) channel.
- use VCR Remote Control to select channels using Multibrand control feature.
- · view any (including scrambled) channel.
- use VCR Remote Control to select channels without using Multi-brand control feature.

- You Cannot
- view channel other than the one selected for any type of recording.
- · do a Timer recording of a channel unless you select it at the cable box.
- record scrambled channels.

- · record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes. an A/B switch, and a 2-way splitter.
- view channel other than the one selected for any type of recording.
- · do a Timer recording of a channel unless you select it at the cable box.

- · record and view any (including scrambled) channel.
- use your VCR Remote Control to select channels using Multi-brand control feature.

NOTE:

DSS receiver must be turned off to view cable box or antenna programs.

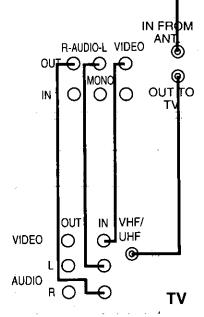
- view channel other than the one selected for any type of recording.
- · do a Timer recording of a channel unless you select it at the DSS box.

## Audio/Video Connections

If your TV has AUDIO and VIDEO IN terminals, connect them to VCR for higher quality picture and sound. You can enjoy stereo sound even if your TV is not stereo by connecting a stereo amplifier to the VCR.



VCR



Note

To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO."

For model PV-9451, use the L Audio IN jack for proper sound reduction when connectiong to a monaural TV.

#### Note to CABLE system installer:

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) 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.

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

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.

## Timer Recording

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



Display SET PROGRAM. Press PROG.\*

You can also display Program screen from Menu.

- 1) Press ACTION to display Menu.
- You can also set up using VCR buttons. See the bottom right of this page.
- Press ▲▼ and ► to select and set SET UP FEATURE.
- Press ► to display Program screen.
- 4) Go to step 3.



SELECT: ▲ ▼ KEY :► KEY SET :PROG KEY FND

You may not use the VCR buttons on "SET PROGRAM" screen.

## Display Program screen.



- Press ▲▼ to select TIMER PROGRAM.
- Press ► to display.
- If a program is already in memory, press ▲▼ and to select an unused program number.



### Set the recording DATE.



- 1) Press ▲▼ to select.
- Press ► or ◀ to set.
- 1~31 = One time DAILY = MON~FRI
- WEEKLY = Same time once a week

**8−9·····31−1−2·····6-**<u>Example</u> Today -SELECT▲ / ▼ Selection Order DAILY \_\_\_WEEKLY WEEKLY .... WEEKLY (MON)

STOP

:PROG/ACTION KEY

СН

SP

ABC

Repeat step 3 to set: start time, stop time Channel (or LINE for outside source), Category\*\* tape speed (SP, LP, SLP).



START

SELECT: ▲ ▼ KEY

:▶ KEY

8 SAT 10:00P 12:00P 125

DATE

SET

### Make the notes.

If not wanted, go to step 5.



- Press ▲ to begin.
- Press ▲▼ to select.
- Press ► to set.
- Characters will change in the following order.

Press PROG (or ACTION) to end.

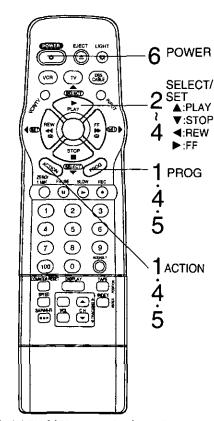
Continued on the next page.

### + A++ B++ C+---+ Z++ BLANK++ -- ++&+-→9*----*+2++1++0++/++!+--

- Important notes when using a DSS receiver -When recording programs via a DSS receiver, the DSS receiver must be left on.
- When recording programs via an antenna or cable, the DSS receiver must be turned off.

Check list before you begin. All connections are made. (See pages 4~5.) TV and VCR are plugged in and turned on. VCR/TV selector is set to "VCR." Clock is set to correct time. Record tab in place. (See page 34.)

Remote in VCR mode.



Model PV-9451 remote is shown here.

\*\* Category Items N/A(not applicable), SPORTS, MOVIE, COMEDY, MUSIC, DRAMA

## - Using ▲▼◀▶ kevs

You can also operate the menu screen using VCR buttons.

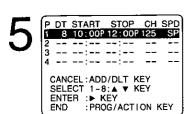
If you use VCR buttons, press CH ▲ and CH ▼ together to display the menu screen.





: PLAY ▼ : STOP ■: REW ▶: FF

When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as ▲▼◀▶ only.



### End the program.



1) Press PROG (or ACTION).

To Enter More Programs Press ▲▼ to select, and ▶ to display a blank program number. Then

> 2) Press PROG (or ACTION) again to exit.

### To cancel Timer Recording-(Recording is in progress)

Press POWER and then STOP within 10 seconds to cancel the Timer recording. (The TIMER indicator goes out on Multi Function Display.)

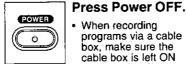




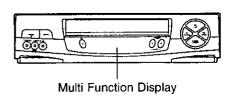
Multi Function Display

### Set the timer.

repeat steps 3 and 4.



When recording programs via a cable box, make sure the cable box is left ON and tuned to the desired channel.

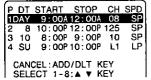


## Review, Replace or Clear Program Contents:

(Recording is not in progress)

### Repeat steps 1~2 on page 12.

• If necessary, press POWER ON.



### Select program.



 Press ▲▼ to select number.

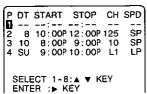
## To Replace program...





- Press ► to display.
- Press ▲▼ ◀► to set new program contents.

## To Clear program...





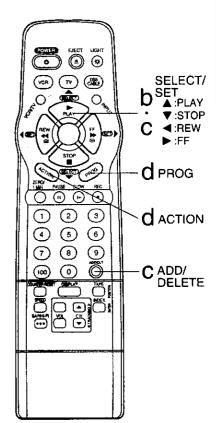
Press ADD/DLT.





### End the program. 1) Press PROG (or ACTION).

· If there are programs, press POWER OFF.



Model PV-9451 remote is shown here.



## Timer Recording Using VCR Plus+ System

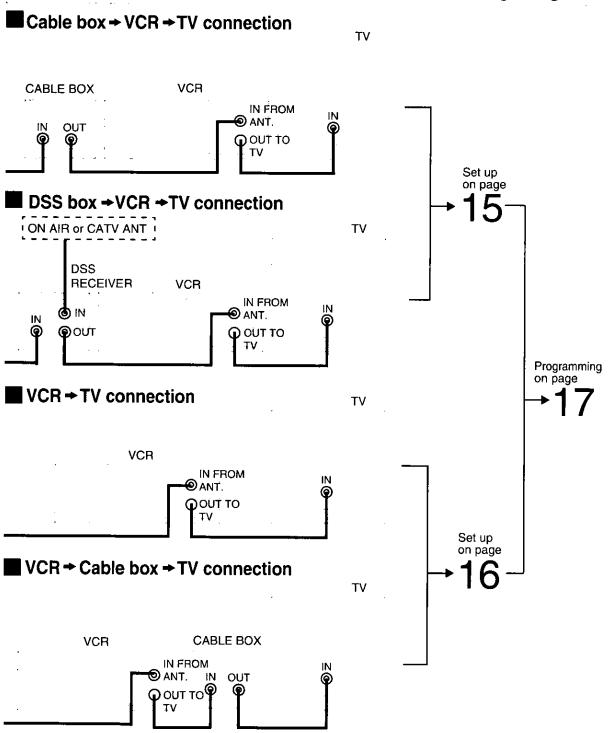
### VCR Plus+ System is ...

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

## **Process of Recording**



Choose your connection type from the following diagrams



## Cable Box Setup

## **Process of Recording**

Programming



Display menu.

Press ACTION.\*

----- MENU -----

SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL

IDIOMA/LANGUE: ENGLISH SELECT: ▲ ▼ KEY . ► KEY SET :ACTION KEY **END** 

Select SET UP CHANNEL.



select. Press ► to

Press ▲▼ to

display.

---- SET UP CHANNEL ----ANTENNA : CABLE AUTO SET CHANNEL CAPTION WEAK SIGNAL DISPLAY : OFF CABLE/DSS BOX SET UP VCR Plus+ CH SET UP SELECT: ▲ ▼ KEY · ► KEY END :ACTION KEY

### Select CABLE/DSS BOX SET UP.



- Press ▲▼ to select.
- Press ► to display.

SELECT HOOKUP

CABLE/DSS BOX-VCR-TV

VCR-CABLE/DSS BOX-TV

VCR-TV

SELECT: ▲ ▼ KEY :► KEY ACTION KEY **END** 

### Select your hookup method.



- Press ▲▼ to select.
- Press ► to set.
- If CABLE/DSSBOX ▶VCR ▶TV. go to step 5. If other, press ACTION three times and go to page 16.

SELECT HOOKUP
CABLE/DSS BOX VCR TV CABLE/DSS BOX OUTPUT CH

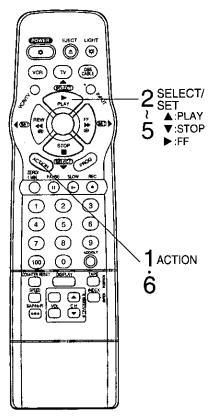
SELECT: ▲ ▼ KEY ◆ ► KEY SET

ACTION KEY

### Select cable box or DSS receiver output channel.



- 1) Press ▲▼ to select.
- Press ► to enter.
- If necessary, refer to your Cable Box/DSS manual.
- If you are using Audio/Video jack connections, select and set "VIDEO OUT" as output channel.



Model PV-9451 remote is shown here.



End setup.

Press ACTION twice.

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

## Timer Recording Using VCR Plus+ System (continued)

It is necessary to program the VCR with local channel information for proper VCR Plus+ System operation.

## VCR Plus+ System Channel Setup

At first, do Channel Setup Preparations below right.



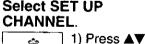
Display menu. Press ACTION \*

---- MENU -----SET UP VCR SET UP FEATURE SET UP CHANNEL IDIOMA/LANGUE: ENGLISH SELECT: ▲ ▼ KEY

- KEV

ACTION KEY

END





- to select. Press ►
- to display.

--- SET UP CHANNEL ANTENNA : CABLE AUTO SET CHANNEL CAPTION WEAK SIGNAL DISPLAY : OFF CABLE/DSS BOX SET UP VCR Plus+ CH SET UP SELECT: A ▼ KFY :► KEY SET END :ACTION KEY

### Select VCR Plus+ CHANNEL SETUP.



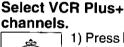
- Press ▲▼ to select.
- 2) Press ▶ to display.

VCR Plus+ CH SET UP GUIDE CH CABLE CH

SELECT: ★ ▼ KEY SET : ► KEY END ACTION KEY

VCR Plus+ CH SET UP

CABLE CH





- Press ► to move cursor to riaht column.
- Press ▲▼ to change CABLE CH number.
- 3) Press ◀ to set.
- Press ▲▼ to scroll up/down GUIDE CH column.
- Repeat step 4 until list is complete.

To make corrections.

SELECT: ▲ ▼ KEY

· 

KEY

:ACTION KEY

GUIDE CH

01

02

SET

END

Press ▲▼ and ► to move to error, then ▲▼ to change, or ADD/DLT to erase number.



### End setup.

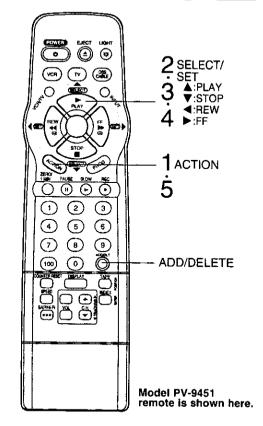
Press ACTION three times.

### Notes

- Make each entry within 5 minutes or the VCR will leave this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

## **Process of Recording**





## Channel Setup Preparations

In order to complete step 4 left, make a local channel list (see example below).

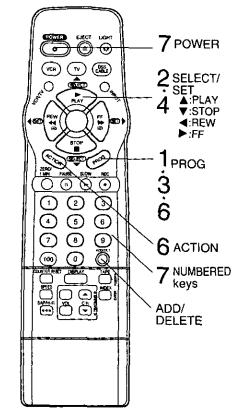
You will need the following:

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

#### EXAMPLE ONLY

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

#### **Process of Recording** Check list before you begin. The clock is set. Connection | ⇒ | Setup | ⇒ | Programming □ VCR Plus+ System Setup is complete (see pages 14~16). Display SET PROGRAM. PROG Press PROG. Display VCR Plus+ ---- SET PROGRAM ----screen. VCR Plus+ PROGRAM 1) Press ▲▼ TIMER PROGRAM to select. 2) Press ▶ SELECT: ▲ ▼ KEY to display. :► KEY SET END : PROG KEY Enter PlusCode VCR Plus+ programming number. ENTER PLUSCODE NUMBER 1) Press **②** ③ ➂ ◑ **(9)** Numbered ① 0 0 keys. USING 0-9 KEYS **o** Press PROG PROG to lock in the To make corrections, press ◀ repeatedly to delete the PlusCode programming number. program. Enter record frequency. VCR Plus+ 3) Press 1, 2, or ONE TIME DAILY (MON-FRI) WEEKLY 3 key to select O 2 3 program type. TO SELECT PUSH 1,2 OR 3



Model PV-9451 remote is shown here.

Category Items N/A(not applicable), SPORTS MOVIE, COMEDY, MUSIC, DRAMA

### Use normal Timer Recording steps if:

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

### See page 13 to:

- · cancel a timer recording in progress.
- replace program contents.
- · review or clear program contents once set.

### Important notes for DSS/Cable Box users

- · When recording via DSS, the receiver, must be left on.
- When recording via cable or antenna, DSS receiver must be off.



- Avoid overlapping program times.
- VCR PlusCode programming numbers can not be used to program the VCR to record DSS channels.
- You can obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs approximately \$.95 per minute.

#### 8 SAT 10:00P 12:00P 125 ABC CATEGORY:N/A SP SELECT CATEGORY SELECT: A ▼ KEY SET : ▼ ► KEY :PROG/ACTION KEY

START

STOP

## Select Category.\*\*



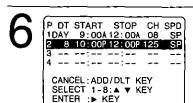
- Press ▲▼ to change.
- 2) Press ▶ set.

### Change record speed. Repeat 1) and 2).

## Make notes. ----> Do step 4 on page 12.

СН

If not wanted, go to step 6.



:PROG/ACTION KEY

## End programming.



Set timer.

 Press PROG (or ACTION).

To cancel press ADD/DLT.

2) Press PROG (or ACTION) again to exit.



END

POWER O Multi Function Display

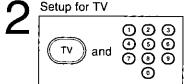
Press Power OFF.

## Multi-Brand Control Feature

The Remote Control may be set up to control some TV or Cable/DSS Box functions.

## **Multi-Brand Control Setup**

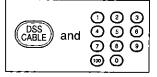
Find your TV, Cable or DSS Receiver Brand Code Number on following page.



Setup remote.

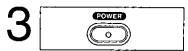
Hold down TV and enter code with NUMBERED keys.

### Setup for Cable or DSS



Hold down DSS/CABLE and enter code with NUMBERED keys.

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



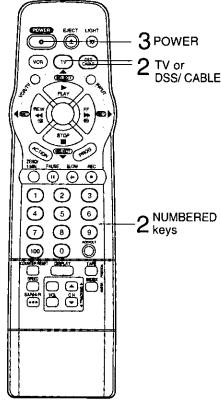
### Confirm code entry.

Press POWER to turn selected unit ON or OFF.

 See table below for list of controllable functions in each mode.



- Please repeat Multi-Brand Control setup after replacing remote control batteries.
- The remote control will not operate all TVs, Cable Boxes, and DSS receivers made by manufacturers listed. If you get no results, your particular brand cannot be controlled.



Model PV-9451 remote is shown here.

## **Using the Multi-Brand Control**

After remote control is setup, you can select VCR, TV, or DSS/CABLE for the desired function.

Press VCR or TV or DSS/CABLE on the remote control.

This table shows which buttons are available for each mode

The labe shows which battons are available for each mode.				
Available Buttons		TV	CABLE/ DSS	
VCR	All Functions	VOL UP/DOWN		
TV	VCR/TV, PLAY, STOP EJECT, SAP/ Hi-Fi (PV- 9451 only), DISPLAY, FF, REW, PAUSE, SLOW, REC, SPEED, ZERO/ 1MIN, COUNTER RESET	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN		
CABLE/ DSS	VCR/TV, PLAY, STOP EJECT, SAP/ Hi-Fi (PV- 9451 only), DISPLAY,FF, REW, PAUSE, SLOW, REC, SPEED, ZERO/ 1MIN, COUNTER RESET	VOL UP/ DOWN	POWER, ENTER, NUMBERED keys (except 100key), CH UP/ DOWN	

Note

In TV or DSS/ CABLE mode, it may be necessary to press ENTER after pressing NUMBERED keys for channel selection.

TV Brand Code Numbers		
Quasar     01, 02       RCA     03       GE     03	Sylvania       05         Sharp       06, 07         Sony       08         Toshiba       09         Sanyo       10         Fisher       10	Hitachi

	<u>-</u>
Cable Box Brand Code Numbers	
Archer	Quest05, 06
Cabletenna 01, 44, 63, 91, 126	Radio Shack 44, 51, 59, 75
Cableview	RCA 16, 17, 97, 109
Century	Realistic 44, 51, 59, 75, 126
Citizen	Recoton 44, 51, 59, 75, 126
Curtis	Regal 14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond	Regency 28, 130
Drake	Rembran 01, 32, 39, 42, 44, 63, 126
Eagle 13, 20, 22, 26, 40, 58, 62, 107	Salora 68
Eastern	Samsung 05, 06, 32, 40, 42
GC Brand	Scientific Atlanta 08, 09, 53, 61, 87
Gemini04, 124	Sheritech
General Electric01, 57	Signal26, 112
General Instruments 01, 02, 03, 04, 34, 55, 65, 67,	SL Marx06, 32, 40, 42, 43, 44, 52, 63, 126
68, 83, 91, 115, 117, 118, 124	Spucer 16, 17, 97, 109
Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130	Standard Components 32, 39, 42, 44, 126
Hitachi 31	Stargate 04, 06, 30, 32, 40, 42, 44, 52, 63, 124, 126
Jasco04, 124	Sylvania19
Jerrold 01, 02, 03, 04, 34, 55, 65, 67,	Текліка 74
68, 83, 91, 115, 117, 118, 124	Telecaption77, 127
Macom 31	Teleview 06, 32, 40, 42
Magnavox26, 112	Texscan 18, 19
Matsushita 16, 17, 97, 109	Tocom01, 33, 34, 42, 66, 91
Movietime 32, 38, 39, 40, 42, 44, 126	Toshiba
NEC 32, 38, 40	Uniden Satelite65
NOVAVISION 08, 09, 53, 61	Unika
NSC 32, 38, 40	Universal42, 43, 44, 52, 63, 126
Oak 11, 46, 129	Videoway 07, 23, 50, 129
Oak Sigma 11, 46, 129	Vid Tech
Panasonic	Vidter
Philips	Viewstar
Pioneer	Zenith 07, 23, 50, 129
Pulsar 04, 30, 42, 44, 52, 63, 124, 126	

DSS Brand Code Number	
Toshiba       92         Hitachi/ Hughes       93         Magnavox/ Uniden 1       94         Magnavox/ Uniden 2       95	RCA

### Important Notes

- Due to changes in infra-red commands used by manufacturers, some brands have several codes.
   If your unit does not respond to the first code, please try the next one.
- Some TV, Cable Box and DSS Box brands require you to turn on the power manually.
- Not all functions listed may be controlled by this remote control.

## Tape Operation

## VHS Index Search System

Each time recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

### Direct Access (For normal and /or timer recordings)

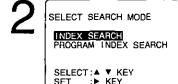
Go directly to desired recording.



### Display SELECT SEARCH MODE.

Press INDEX.\*

· If there are no timer recordings on the Program Index List, go to step 3.



END

### Display INDEX.



- Press ▲▼ to select.
- Press ► to display.
- This screen appears only if there are timer recordings.



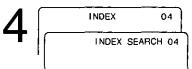
: INDEX KEY

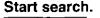
## Select the recording number.

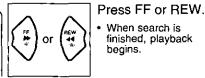


Press NUMBERED keys.

 To calculate number, see below.

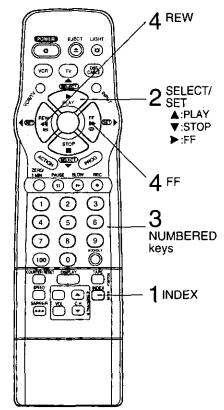






When search is finished, playback

begins.

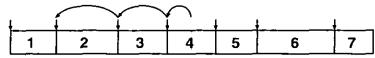


Model PV-9451 remote is shown here.

### To Calculate Index Number

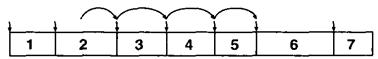
#### Example 1:

If you are watching recording 4 and you want to watch recording 2, enter 3 in step "3" and press REW.



### Example 2:

If you are watching recording 2 and you want to watch recording 6, enter 4 in step "3" and press FF.



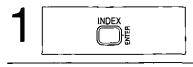
### NOTE: Indicates start points of each recording.

### **Notes**

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

## Program Index Search (For timer recordings only)

Choose a timer recorded program from a Program Index List. When the tape is ejected or normal recording is started, all program index data are deleted.



**Display SELECT SEARCH MODE.** Press INDEX.

SELECT SEARCH MODE
INDEX SEARCH
PROGRAM INDEX SEARCH

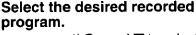
### Display PROGRAM INDEX.

- 1) Press ▲▼ to select.
  - 2) Press ► to display.

PROGRAM INDEX
DATE START CATEGORY CH
12/28 10:00A SPORTS ABCD
1/ 4 12:30P MOVIE NBC
1/ 4 8:00P COMEDY CBC
1/ 7 3:00P MUSIC NBC

SELECT: A V KEY
SEARCH: KEY

: INDEX KEY





- Press ▲▼ to select.
   Press ► to start
- Press ► to start the forward or rewind search.
- When search is finished, playback begins.

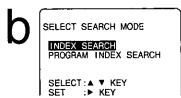
## Index Scan (For normal and /or timer recordings)

In Play mode, the first 10 seconds of each recording can be scanned (forward or reverse).

a index

## **Display SELECT SEARCH MODE.** Press INDEX.

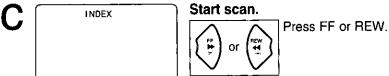
 If there are no timer recordings on the Program Index List, go to step c.

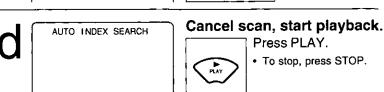


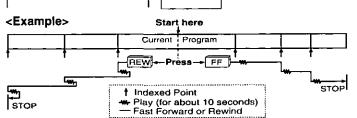
### Display INDEX.

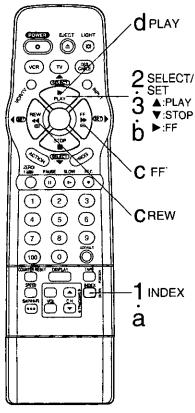


- 1) Press ▲▼ to select.
- 2) Press ► to display.









Model PV-9451 remote is shown here.

## **Auto Operation Functions**

### ■ Auto Playback

Tape insert --> Power turn on --> --> Start playback if record tab (see page 34.) is removed.

### ■ Auto Rewind

Playback
Manual Record
Fast Forward
-->Rewind (Auto)

## ■ Playback Auto Eject (Repeat Play is "OFF")

Playback --> Rewind -->
-->Tape eject (Without record tab)

### **■** Memory Rewind Off

Rewind --> Press POWER -->
-->Turn off after complete

## Tape Operation (continued)

## Repeat Play

Set to see a recording over and over.



Display menu.

Press ACTION.\*



Display SET UP VCR.



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



Set ON or OFF.



- Press ▲▼ to select 'REPEAT PLAY.'
- 2) Press ▶ to set.
- Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.

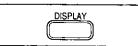


Return to normal screen.

Press ACTION twice.

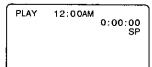
## Zero Search

To quickly return to specific tape counter location.



Display Counter.

Press DISPLAY during playback.



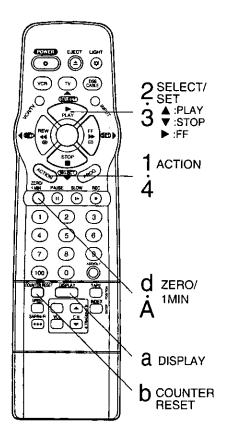
Reset to "0:00:00."



Press COUNTER RESET at the desired position.

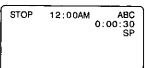
\*Important:

If the remote control POWER, ACTION, PROG, CH ▲/▼, INDEX, NUMBERED keys, INPUT, TAPE POSITION, or ADD/ DLT button does not work when pressed, press the VCR button on the remote and try the button again.



Model PV-9451 remote is shown here.

## Continue playback, rewind, or fast forward.



### Return to "0:00:00."

ZERO, 1 MIN

Press ZERO/ 1MIN in Stop mode.

The VCR will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.

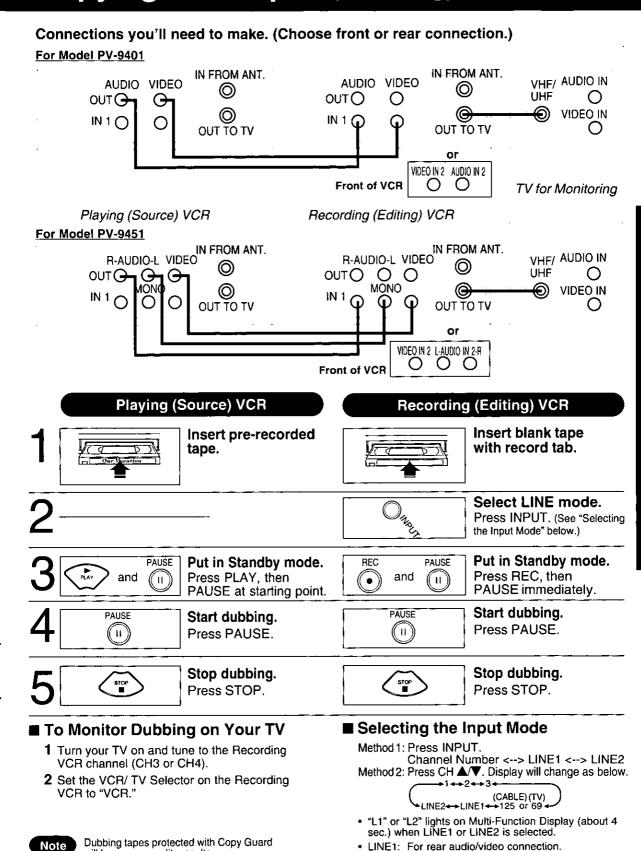
## **One Minute Skip**

VCR skips over 60 seconds of recorded tape.



Press ZERO/ 1MIN in Play mode.

## Copying Your Tapes (Dubbing)

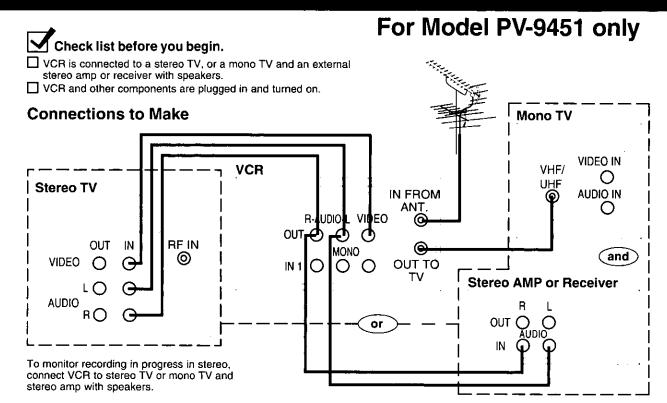


Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

LINE2: For front audio/video connection.

will have poor quality results.

## MTS Broadcast/ VHS Hi-Fi Stereo System



## Receivable Broadcast/Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "(c" mark while the selected audio mode is indicated with an arrow.



Display the broadcast signal being received. Press DISPLAY.\*

#### MTS Stereo and SAP broadcast

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

### MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

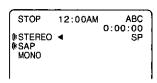
 If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.

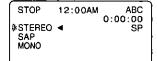
### **SAP** broadcast

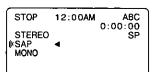
Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

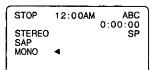
### MONO broadcast

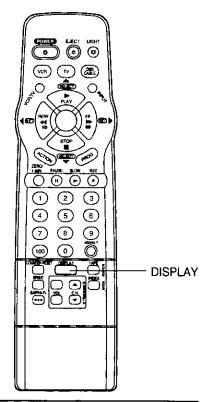
Normal monaural sound broadcast.











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.

### When set to proper audio mode VCR can:

- 1) record/playback MTS stereo broadcasts (main language) in Hi-Fi stereo.
- 2) record/playback mono (main language) or SAP (sub language) broadcasts.
- 3) playback non Hi-Fi tapes in monaural.
- The selected broadcast sound is always recorded on left and right Hi-Fi track as well as the normal monaural track. This means tapes can be played back on Hi-Fi and non-Hi-Fi VCRs.

## **Audio Mode for Recording**

SAP/Hi-Fi

Display audio mode.

Press SAP/ Hi-Fi.

2 RSTEREO SAP MONO

The arrow indicates

your selection.

Select desired mode.

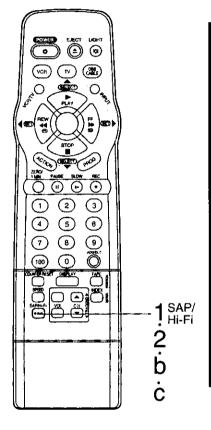
Press SAP/ Hi-Fi repeatedly (each press within 5 seconds).

Refer to the "Receivable Broadcast Types" on page 24.

SAP/Hi-Fi

000

3 Do a recording. See page 9.



## Audio Mode for Playback

**a** Start playback. See page 8.

SAP/Hi-Fi

Display audio mode.

Press SAP/ Hi-Fi.

HIFI (L/R) 4
HIFI (L)
HIFI (R)
NORMAL

The arrow indicates your selection.

### Select desired mode.



Press SAP/ Hi-Fi repeatedly (each press within 5 seconds).

 Select "HIFI(L/R)" or "HIFI(L)" or "HIFI(R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound.

### Notes

- Only tapes recorded in Hi-Fi stereo will play back with true stereo sound. Standard stereo tapes will play back in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amp and speakers. (See page 24.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

## Special VCR Features

## **Channel Caption**

When set, station name, e.g. ABC, CBS, and channel number appear on-screen. Set up to 24 preset captions, and/or 10 manually created captions.

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

## **Preset Caption**



Display menu.

Press ACTION.\*



### Display SET UP CHANNEL.



- Press ▲▼ to select. Press ► to display.

---- SET UP CHANNEL ----ANTENNA : CABLE AUTO SET GHANNEL CAPTION WEAK SIGNAL DISPLAY : OFF CABLE/DSS BOX SET UP VCR Plus+ CH SET UP
SELECT: ★ ▼ KEY
SET : ► KEY
END : ACTION KEY

### **Display CHANNEL CAPTION.**



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

-- CHANNEL CAPTION ---

PRESET CAPTION MANUAL CAPTION

SELECT: ▲ ▼ KEY :► KEY SET ACTION KEY **END** 





- Press ▲▼ to select. 2) Press ▶ to display.
- To create your own captions, go to "Manual Caption" on page 27.

-- PRESET CAPTION ----ABC PBS CBS --CNN ESPN FOX NBC HBO SELECT: ▲ ▼ KEY SET :► KEY ---- PRESET CAPTION ----TNT CBC 42 UPN CTN 21 TSN WB 35 DSC GLOB 123 CLEAR :ADD/DLT KEY SELECT: ▲ ▼ KEY ■ KEY END : ACTION KEY

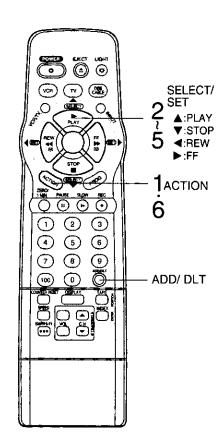
### Assign preset captions.



- Press ▲▼ to highlight caption.
- Press ► to move cursor to the right.
- Press ▲▼ to select CH number.
- Press ◀ to set.
- · Repeat step 5 until the list is complete.

To make corrections,

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



Model PV-9451 remote is shown here.



End setup.

Press ACTION four times.

## **Manual Caption**

**d** ■ Do "Preset Caption" steps 1~3 on page 26.

PRESET CAPTION MANUAL CAPTION

MANUAL CAPTION

SELECT: ★ KEY
SET : ► KEY
END : ACTION KEY

Display MANUAL CAPTION.



- Press ▲▼ to select.
   Press ► to
- Press ► to display.

CH NUMBER CAPTION

CH NUMBER CAPTION

D2 ----

SELECT: ▲ ▼ KEY
SET : ▶ KEY
END : ACTION KEY



- 1) Press ▲▼ to select CH NUMBER.
- Press ► to move cursor to the right.
- Channels already set and channels deleted from Channel Memory are not displayed.

Select channel number.

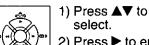
 You can set a total of ten channel captions.

CLEAR : ADD/DLT KEY
SELECT: A ▼ KEY

---- MANUAL CAPTION ---CAPTION
O2

CLEAR : ADD/DLT KEY
SELECT: A ▼ KEY

## Enter CAPTION.



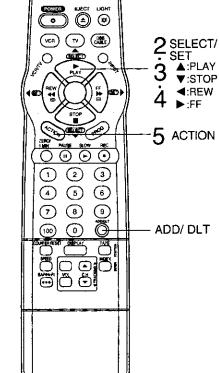
- 2) Press ► to enter.
- Characters change in following order.



Repeat steps 3 and 4 as desired.

To make corrections,

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



Model PV-9451 remote is shown here.

5



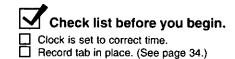
End input.

Press ACTION four times.

## Special VCR Features

## Time Stamp Feature

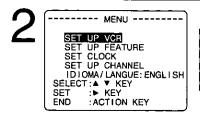
The VCR writes program data (see example below) about the first 10 seconds of every recording. The information is then displayed the first 10 seconds of playback. To change the data, see "Changing Time Stamp Data" on page 29.





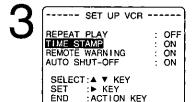
Display menu.

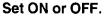
Press ACTION.\*



### Display SET UP VCR.

- Press ▲▼ to select.
- Press ► to display.





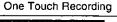
- Press ▲▼ to select. Press ► to set.
- When "OFF" is selected, the program data is written on the tape, but will not be displayed.

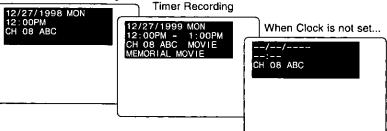


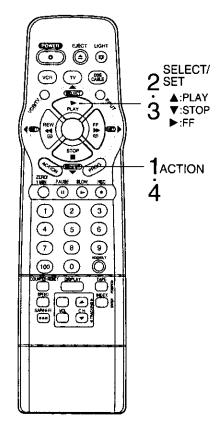
Return to normal screen.

Press ACTION twice.

<Time Stamp Example>







Model PV-9451 remote is shown here.

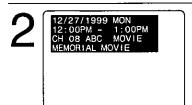
## **Changing Time Stamp Data**

You may change the Date, Time, Channel, Category, and Notes.



### Display Time Stamp Data.

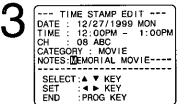
- 1) Insert cassette with record tab.
- 2) Press PLAY.



### Display TIME STAMP EDIT.



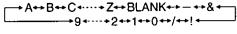
Press PROG while the data is displayed in Playback mode.



### Change Time Stamp Data.



- 1) Press ▲▼ to select.
- Press ► to enter and continue.
- Characters in NOTES will change in the following order.



Repeat 1) and 2) as needed.

To make corrections,

Press ◀ ▶ to move to the incorrect entry, then press ▲▼ to make the correction.

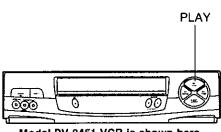


### Write the new data.

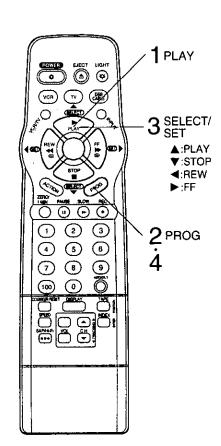


Press PROG.

When data is written, VCR returns to Stop mode.



Model PV-9451 VCR is shown here.



Model PV-9451 remote is shown here.

## Special VCR Features

## Tape Position Display Feature

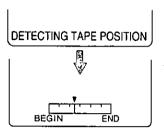
To find out the present tape position.

Tape position cannot be found for C-Cassette type and tape of less than 60 minutes.

TAPE

**Detect Tape Position.** 

Press TAPE POSITION.\*



- Detecting tape position is only when first cassette in.
- It takes several seconds for correct indication to appear.
- Indication is standard.

2



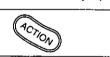
Return to normal screen.

Press TAPE POSITION.

## **Remote Warning ON/OFF Feature**

If Multi-brand feature is used (page 18), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.

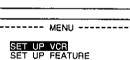
a



Display menu.

Press ACTION.

b



IDIOMA/LANGUE: ENGLISH SELECT: ▲ ▼ KEY

CLOCK

SET UP CHANNEL

:► KEY

SET

SET

Display SET UP VCR.



- Press ▲▼ to select.
- Press ► to display.

C



▶ KEY

:ACTION KEY

Set ON or OFF.



- Press ▲▼ to select.
- 2) Press ► to set.
- "OFF" --> Remote Warning will not appear even if invalid key is pressed.

d

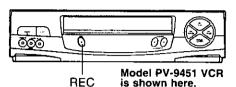


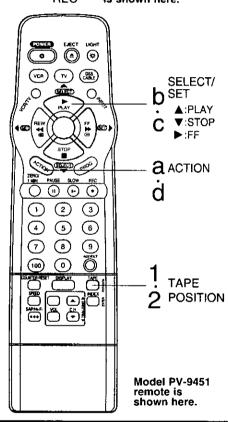
Return to normal screen.

Press ACTION twice.

Check list before you begin.

- ☐ All connections are made. (See pages 4~5.)
  ☐ VCR is plugged in.
- TV is turned on and set to the VCR channel (CH 3 or 4).





## **VCR Lock Feature**

All operations are prohibited except timer recording and tape eject. Useful for families with small children.

VCR LOCK ACTIVATED

In Stop mode, hold down REC on the VCR without a cassette inserted for 7 seconds.

VCR LOCK OFF

To turn OFF: Repeat above.

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

SELECT/

**▲:PLAY** ▼:STOP

▶:FF

**ACTION** 

SET

## Weak Signal Display ON/OFF Feature

When "ON" is selected, picture is displayed even when broadcast signal is weak or nonexistent.



Display menu.

Press ACTION.

----- MENU -----SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL ID IOMA/LANGUE: ENGLISH SELECT: ▲ ▼ KEY ▶ KEY

### Display SET UP CHANNEL.



- Press ▲▼ to select.
- Press ► to display.

---- SET UP CHANNEL ----ANTENNA : CABLE AUTO SET CHANNEL CAPTION WEAK SIGNAL DISPLAY : OFF CABLE/DSS BOX SET UP VCR Plus+ CH SET UP SELECT: ▲ ▼ KEY :▶ KEY



### Set ON or OFF.

- 1) Press **▲**▼ to select.
- Press ► to set.
- ON --> Picture is displayed regardless of signal condition, and may not always be clearly visible. OFF --> Screen turns solid blue when signal is absent or weak.
- If VCR is connected to equipment which has blue back feature, selecting ON will have no effect on the other equipment.

ACTION

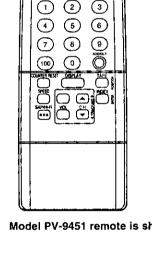
Return to normal screen.

Press ACTION twice.

## **Auto Shut-Off Feature**

When "ON" is selected, VCR shuts itself off when playback of a blank portion of tape continues or no signal (except when LINE is selected) is detected for over 5 minutes.

Repeat step "a" and "b" on page 30 to display SET UP VCR.



➂ (9)

 $\odot$ 

17) (coss)

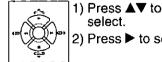
 $\odot$ 

۰

Model PV-9451 remote is shown here.

----- SET UP VCR -----REPEAT PLAY OFF TIME STAMP REMOTE WARNING ON AUTO SHUT-OFF ON SELECT: ▲ ▼ KEY . ► KEY END :ACTION KEY

### Set ON or OFF.



select. Press ► to set.



Return to normal screen.

Press ACTION twice.

## Reset Language, Channels, Clock

1

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE:ENGLISH
SELECT: A V KEY
SET : KEY
END : ACTION KEY



Display menu.
Press ACTION.\*

**2** ■ Language

1) Press ▲▼ to highlight language item.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/ LANGUE: ENGLISH
SELECT: A V KEY
SET : KEY
END : ACTION KEY

Press ➤ repeatedly.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE: ENGLISH
SELECT: A ▼ KEY
END : ACTION KEY

For English

PREPARAR VCR
FIJACION DE FUNCIONES
FIJAR RELOJ
FIJAR CANAL
LANGUE/LANGUAGE: ESPAÑOL
ELEGIR: ▲ ▼
FIJAR: ►
TERMINAR: ACTION

For Spanish

REGLAGE MAGNETOSCOPE
REGLAGE MAGNETO SUPPLEM
REGLAGE HORLOGE
REGLAGE CANAL
LANGUAGE/IDIOMA: FRANÇAIS
SEL. : A ▼
REGLER: ►
FIN : ACTION

For French

### Channels

1) Press ▲▼ to select SET UP CHANNEL.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE:ENGLISH
SELECT:A V KEY
END :ACTION KEY

Press ►.

--- SET UP CHANNEL ---ANTENNA : CABLE
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY : OFF
CABLE/DSS BOX SET UP
VCR Plus+ CH SET UP
SELECT: ▲ ▼ KEY
END : ACTION KEY

- Press ▲▼ to select "ANTENNA," then press ► to set your antenna system (TV or CABLE).
- 4) Press ▲▼ to select "AUTO SET," then press ►.
- If you use a cable box, set it to the PBS channel in your time zone.

CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PUSH CH UP KEY

(This screen appears only when auto clock is set.)

- Press CH ▲.
- Clock Auto Set will be performed when channels are replaced in memory.

Clock

 Press ▲▼ to select SET CLOCK.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE: ENGLISH
SELECT: A V KEY
SET : KEY
END : ACTION KEY

2) Press ▶.

AUTO CLOCK SET

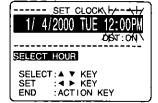
MANUAL

TIME ZONE ADJUST : 0

SELECT: A V KEY
SET : KEY
END : ACTION KEY

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

- 3) Press ▲▼ to select MANUAL and press ►.
- For Auto Clock Set, select "AUTO CLOCK SET," then press CH ▲.



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

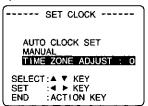
## Time Zone Adjust

(When Auto Clock is set only.)

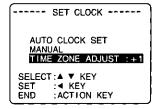
 Press ▲▼ to select SET CLOCK.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE: ENGLISH
SELECT: A V KEY
SET : KEY
END : ACTION KEY

### 2) Press ▶.



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



- 4) Press ACTION twice.
- 5) Press POWER off to perform AUTO CLOCK SET.
- TIME ZONE ADJUST returns to "0" if clock is set manually.

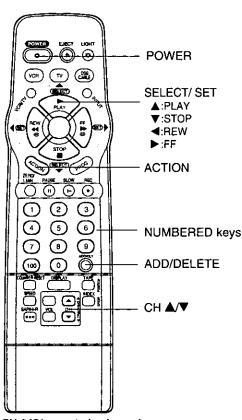
### Add or Delete a Channel

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

CHANNEL 08 ADDED

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

CHANNEL 08 DELETED



Model PV-9451 remote is shown here.



You can also operate the menu screen using VCR buttons. If you use VCR buttons, press CH ▲ and CH ▼ together to display the menu screen.





▲:PLAY ▼:STOP ⊲:REW

**▶** : FF

When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as ▲▼◀► only.

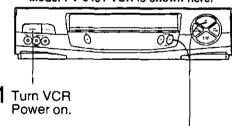
## VCR & Cassette Information

## **Reset All VCR Memory Functions**

Use when moving VCR to 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.

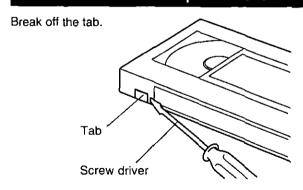
#### Model PV-9451 VCR is shown here.

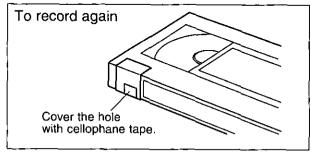


- 2 Press and hold both PLAY and CHANNEL ▲ on the VCR for more than 5 seconds.
  - The power will shut off.

3 Do "One Time VCR Setup" steps on page 6.

### Prevent Accidental Tape Erasure



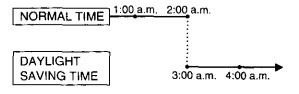


### **DST (Daylight Saving Time)**

VCR auto adjusts clock for DST. (Page 7.)

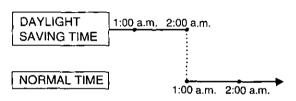
### Spring (First Sunday in April)

DST:ON --> sets clock ahead one hour.



### Autumn (Last Sunday in October)

DST:ON --> Turns clock back one hour.



- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming the VCR for timer recordings.

### Record/Playback Time

Only use tapes with the VHS mark in this unit.

Tape Speed	Type of Video Cassette			
Setting	T60 T120		T160	
SP (Standard Play)	1 Hour	2 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	

### **Head Cleaning**

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

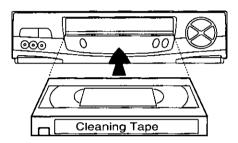
### Video Head Clog Sensor

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

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

END:PLAY KEY

 Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)



- Follow cleaning tape instructions carefully.
   Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 38.)

### **Specifications**

Power Source: 120V AC, 60 Hz

Power Consumption: Power On

Approx. 18 watts (PV-9401) Approx. 23 watts (PV-9451)

Power Off

Approx. 3.3 watts

Video Signal: EIA Standard NTSC color Video Recording System: 4 rotary heads helical

scanning system

Audio Track: 1 track (Normal)

2 channel (Hi-Fi Audio Sound)

(PV-9451)

Tuner:

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

CABLE Channels: Midband A through I (14~22)
Superband I through W (23~36

Superband J through W (23~36) Hyperband AA~EEE (37~64) Lowband A-5~A-1 (95~99) Special CABLE channel 5A (01) Ultraband 65~94, 100~125

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

**Operating Humidity:** 10%~75% **Weight:** 7.7 lbs. (3.5 kg)

**Dimensions:** 14-15/16" (W) x 3-2/3" (H) x

12-3/16" (D)

380 (W) x 93 (H) x 310 (D) mm

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

### Cleaning the VCR

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your VCR. Remove dust from the ventilation holes on the back sides and bottom of the cabinet.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

## Features for a Quality Picture

Digital Auto Picture

Automatically controls the video output signal for less noise depending on the tape condition.

**Digital Auto Tracking** 

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)
Use during Playback and Slow Motion mode
to reduce picture noise. To return to Auto Tracking,
press POWER off, then on again.







V-Lock Control (to reduce picture jitter)
In Still mode, CH (TRACKING) ▲/▼ operate as a V-Lock control.

## On-Screen Displays (OSD)

## **Function & Channel Display**

08 ABC When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters. (Some Station names may also appear if Channel Caption is set. See page 26, 27.)

## Blank Tape/ No Video Signal Indication

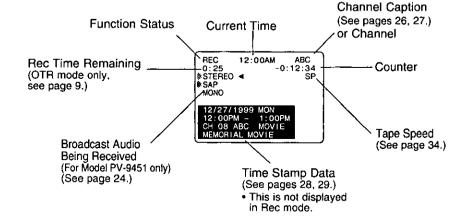
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 31) set to OFF, the TV screen will turn solid blue.

## VCR Status & Clock Display

To display or remove the overlay.



Press DISPLAY.



## **Warning and Instruction Displays**

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

OSD	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH VCR CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY	6	TO CANCEL TIMER REC PUSH POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording (visible in VCR mode only)	13
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording and the Clock is not set	6	VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY KEY	If head cleaning becomes necessary while playing back a tape	35
TURN VCR OFF FOR TIMER RECORDING AND LEAVE CABLE BOX POWER ON	After a Timer Program has been set	13	VCR LOCK ACTIVATED	If you press a function button other than STOP/ EJECT or POWER while the VCR is in VCR Lock mode	30
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	34	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR: VCR KEY USE TV: TV KEY	If you press POWER, ACTION, or PROG on the remote while in CABLE/DSS mode	18 19
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted	8 9	REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press POWER, ACTION, or PROG on the remote while in TV mode	18 19

## Before Requesting Service

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

Power	Correction
No power	<ul> <li>Completely insert Power Plug into an AC outlet.</li> <li>Set POWER button to ON.</li> <li>Make sure power source is active.</li> </ul>
Recording & Playback	Correction
TV program cannot be recorded	<ul> <li>Check connections between VCR, external antenna, and TV.</li> <li>Check hook up selection. (P.4~5)</li> <li>Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.32])</li> <li>Make sure cassette record tab is intact. (P.34)</li> </ul>
Timer recording cannot be performed	<ul> <li>Check clock is set to current time and date.</li> <li>Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.</li> <li>Set recording start/stop times correctly. (P.12)</li> <li>Make sure POWER button is set to OFF. (P.13)</li> <li>Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during, a Timer Recording, even after power is restored.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select channel 3 or 4 on TV to match Channel 3/4 switch on rear panel of VCR (P.4) or select LINE.</li> <li>Set VCR/TV selector to "VCR."</li> <li>Adjust TRACKING control in either direction. (P.35)</li> <li>Try Head Cleaning. (P.35)</li> </ul>
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control	Set TV's Vertical Hold Control to "MANUAL" then adjust.
VCR cannot be controlled	<ul> <li>Make sure VCR LOCK is set to off. (P.30)</li> <li>Make sure remote is in proper mode.</li> <li>Make sure unit is not in a Timer Record operation.</li> </ul>
Remote Control	Correction
VCR cannot be remote controlled	<ul> <li>Aim Remote Control directly at remote sensor on VCR. (P.42)</li> <li>Avoid any object blocking signal path.</li> <li>Inspect remote batteries. (P.4)</li> <li>Make sure VCR LOCK is set to off. (P.30)</li> <li>Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
ACTION and PROG buttons cannot be used	Press VCR button for VCR mode. (P.18)     Check Batteries.
Miscellaneous	Correction
Programs cannot be viewed on TV	<ul> <li>Set VCR/TV selector to "TV." (P.9)</li> <li>Make sure proper signal source is selected.</li> </ul>
Video cassette cannot be inserted	Insert the cassette with window side up; record tab facing you.     Insure no other tape is inside unit.
Video cassette cannot be removed	Completely insert Power Plug into AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording	Make sure cassette rec tab is intact. (P.34)
In Stop mode, the motor (CYLINDER) continues to rotate	To enable Quick play mechanism, the cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.
The top of the playback picture waves back and forth excessively	Because VCR playback signal is not as stable as off-the-air TV signal, top of TV screen may be bent or unstable during playback. Slowly turn TV horizontal Hold control to correct. If your TV has no horizontal Hold control or adjusting control is inaffective, contact your nearest TV service center.

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

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

## Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-211-PANA (7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm, EST.

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

### **Accessory Purchases:**

Customer Orders Only 800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

### Factory Servicenters Locations

#### CALIFORNIA

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

### **COLORADO**

1640 South Abilene Street Suite D Aurora, CO 80012

#### **FLORIDA**

3700 North 29th Avenue Suite 102 Hollywood, FL 33020

#### **GEORGIA**

8655 Roswell Road Suite 100 Atlanta, GA 30350

#### ILLINOIS

9060 Golf Road Niles, IL 60714

1703 North Randall Road Elgin, IL 60123 (Pick-up / Drop-off only)

#### MARYLAND

62 Mountain Road Glen Burnie, MD 21061

### **MASSACHUSETTS**

60 Glacier Drive Suite G Westwood, MA 02090

#### **MICHIGAN**

37048 Van Dyke Avenue Sterling Heights, MI 48312

#### **MINNESOTA**

7850-12th Avenue South Airport Business Center Bloomington, MN 55425

### OHIO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

#### **PENNSYLVANIA**

2221 Cabot Blvd. West Suite B Langhorne, PA 19047

Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017

### TENNESSEE 3800 Ezell Road

Suite 806 Nashville, TN 37203

#### **TEXAS**

7482 Harwin Drive Houston, TX 77036

13615 Welch Road Suite 101 Farmers Branch, TX 75244

#### WASHINGTON

20425-84th Avenue South Kent, WA 98032

#### HAWAII

99-859 lwaiwa Street Aiea, Hawaii 96701 Phone (808)488-1996 Fax (808)486-4369

### Service in Puerto Rico

Matsushita Electric of Puerto rico, Inc. Panasonic Sales Company/ Factory Servicenter:

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

Phone (787)750-4300 Fax (787)768-2910

As of April '98

## Warranty

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
AVE. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

## PANASONIC Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

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

Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

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

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

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-211-PANA (7262), to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

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

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

### LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

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

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

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 10/20/97

## Spanish Quick Use Guide/Guía para rápida consulta

### Para ajustar el idioma, canal y reloj

1 Encienda el televisor y la videograbadora. Presione POWER.

### 2 Sintonice el televisor al canal de salida de la videograbadora

(el mismo canal que ha ajustado en la parte trasera de la videograbadora; canal 3 o 4).

- Sintonice siempre el televisor en este canal para obtener la pantalla de videograbadora.
- Si esta usando los terminales de audio/ video para su conexión, ajuste el televisor al modo de entrada de video.

# SELECT LANGUAGE PUSH VCR CH ▲: ENGLISH OPRIMIR VCR CH ▼:ESPAÑOL APP. VCR/TV : FRANÇAIS

### Seleccione el languaje.

Oprimir CH ▲ para elegir el idioma de la pantalla en inglés.

Oprimir CH ▼ para elegir el idioma de la pantalla en español.

Oprimir VCR/TV para elegir el idioma de la pantalla en francés.



### Seleccione la conexión.

- Presione ▲▼ para seleccionar.
- 2) Presione ▶ para ajustar.
- Si ud. ha elegido CABLE/ DSS ➤ VCR ➤ TV, continue al paso 5 y sólo el canal de salida del cable será memorizado.
   Si no, vaya al paso 7.



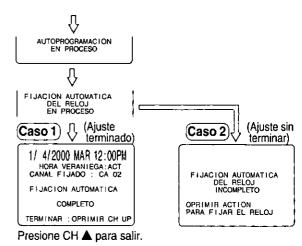
## Seleccione la caja de TV por cable o su receptor el canal de salida.

- Presione ▲▼ para seleccionar.
- 2) Presione para fijar.
- Si es necesario, consulte su manual de la caja de TV por cable.
- Si esta usando los terminales de audio/ video para su conexión para la caja de TV por cable, ajuste "SALIDA DE VIDEO".
- 6 Encienda la caja de TV por cable y fije la caja de TV por cable al canal PBS de su zona.



Comience el ajuste automático de canales y el ajuste automático del reloj.

Presione CH A.



(Caso 2) El ajuste del reloj es incompleto.

### Ajuste el reloj manualmente.

- 1) Presione ACTION.
- 2) Presione ▲▼ para seleccionar el mes.
- 3) Presione ▶ para ajustar.
  - De la misma manera, ajuste el día, el año, la hora y la hora de ahorro de energía (VERANO).
     Para hacer correcciones, presione repetidamente
     para moverse hasta el error, luego corríjalo.
- 4) Presione ACTION. (El reloj se activa.)
  - Para salir de este modo, pulse la tecla ACTION nuevamente.

### Ajustar de nuevo el reloj

1 Presione ACTION para exhiba el menú.



Presione ▲▼ para seleccionar "FIJAR RELOJ" y luego presione ▶.



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



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

5 Presione ACTION dos veces para que el reloj comience a funcionar y salir desde este modo.

## Operaciones básicas para la reproducción

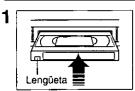
### 1 Inserte un casete.

· La videogrababora se enciende automáticamente.

### 2 Presione PLAY.

- La reproducción comienza si el casete no tiene la lengüeta para prevención de grabación.
- Para encontrar una escena en particular
   Búsqueda hacia adelante ---> Presione FF.
   Búsqueda hacia atrás ---> Presione REW.
- Para ver en cámara lenta ---> Presione SLOW.
- Para ver una imagen fija (congelada) ---> Presione PAUSE.
- Para ver imágenes cuadro a cuadro ---> Presione SLOW en el modo de imagen fija.
- Para parar ---> Presione STOP.
- Para rebobinar la cinta ---> Presione REW.
- Para expulsar la cinta ---> Presione STOP/EJECT en el videogrababora.

## Operaciones básicas para la grabación



#### Inserte un casete.

 La videogrababora se enciende automáticamente.

### 2 Seleccione el canal.

Presione CH ▲/▼ o las teclas numéricas correspondiente.

## 3 Seleccione la velocidad de grabación.

Presione SPEED.

- SP = Reproducción estándar,
- LP = Larga duración,
- SLP = Superlarga duración.

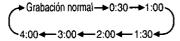
### 4 Comience la grabación.

Presione REC.

- Presione PAUSE para hacer una pausa en la grabación en progreso.
- Para parar ---> Presione STOP.
- Grabación de un toque

Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).

 La videograbadora termina la grabación a una hora programada.



## Programación fácil para la grabación con temporizador

### 1 Exhiba FIJAR PROGRAMACION.

Presione PROG.



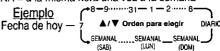
## Exhiba "TEMPORIZADOR".

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



## Ajuste la fecha de grabación.

- Presione ▲▼ para seleccionar.
- 2) Presione ➤ o ◀ para ajustar.
- 1~31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
- SEMANA = a la misma hora una vez a la semana



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

NO, DEPORTE, CINE, COMEDIA, MUSICA, DRAMA



## Haga las anotaciones necesarias.

- Si no fueran necesarias, vaya al paso 5.
- Presione ▲ para hacerlas.
- Presione ▲▼ para seleccionar.
- Presione ◀ para ajustar.
- Presione PROG (o ACTION) para salir.



#### Termine el programa.

 Presione PROG (o ACTION).

Para introducir más programas, presione ▲▼ y ▶ para seleccionar y ajustar el número de programa en blanco. Luego repita los pasos 3 y 4.

2) Presione PROG (o ACTION) para salir.

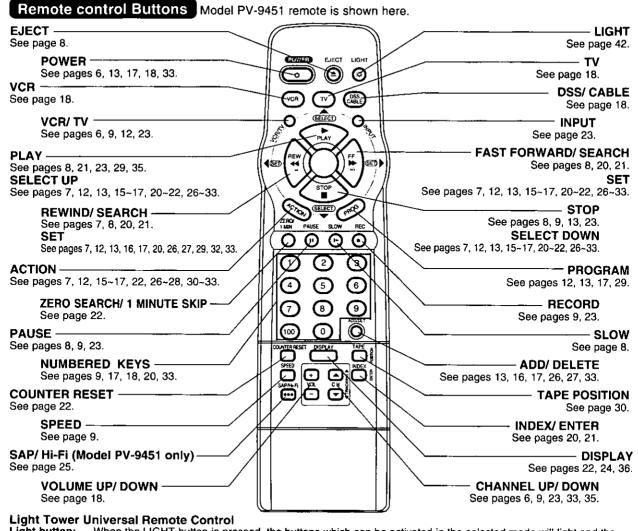


## Grabación con temporizador.

Presione POWER para apagar.

 Si la fuente de la grabación es una caja de TV por cable, asegúrese de que la caja de TV por cable esté encendida y esté sintonizada al canal que desea grabar.

## Location of Controls

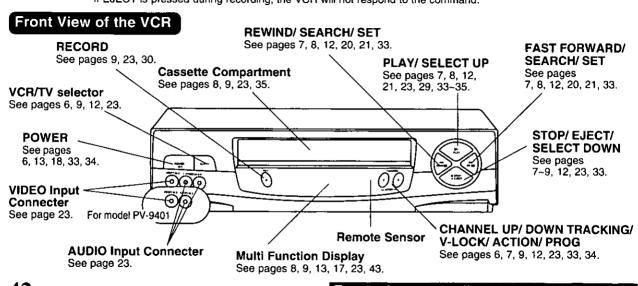


Light button: When the LIGHT button is pressed, the buttons which can be activated in the selected mode will light and the selected mode button (TV/VCR or CABLE DSS) will flash for 5 seconds. If no buttons are pressed within 5

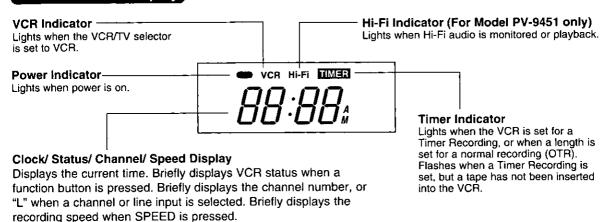
selected mode button (1777CH of CABLE USS) will flash for 5 seconds. If no buttons are pressed within 5 seconds, the light will turn off in order to conserve battery power. Also while holding down the buttons, the selected mode button will flash so you will be able to see, in the dark, which mode has been selected.

EJECT button: When EJECT is pressed, the tape is ejected from Cassette Compartment.

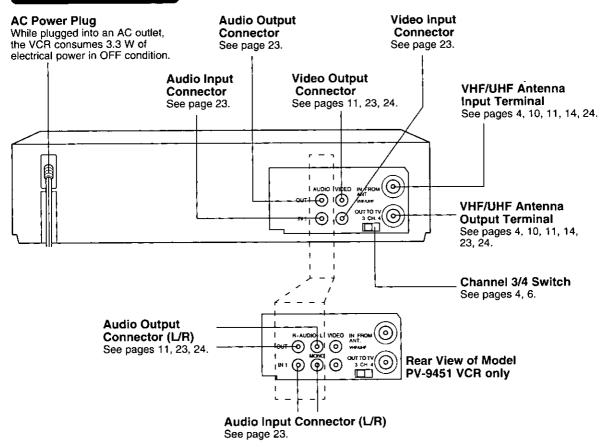
If EJECT is pressed during recording, the VCR will not respond to the command.



### **Multi Function Display**



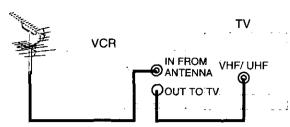
### Rear View of the VCR



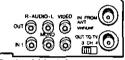
## **Quick Use Guide**

## Playback a Tape

Make all connections (page 4).



2 Set VCR Channel on VCR Rear Panel.

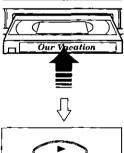


Back of Model PV-9451 VCR only

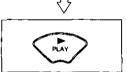
Slide the VCR Channel selector switch to the channel number not used by local broadcast companies (CH3 or 4).

Tune your TV to the channel selected above (3 or 4) whenever you want to see the picture from the VCR on your TV screen.

Play your Tape.



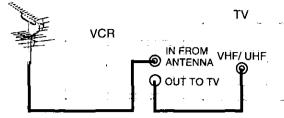
Insert a tape.



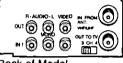
Press PLAY. (Start playback)

## Record on a Tape

Make all connections (page 4).



2 Set VCR Channel on VCR Rear Panel.



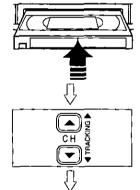
Back of Model PV-9451 VCR only Slide the VCR Channel selector switch to the channel number not used by local broadcast companies (CH3 or 4).

Tune your TV to the channel selected above (3 or 4) whenever you want to see the picture from the VCR on your TV screen.

Do "One Time VCR Setup" on page 6.

In order for the VCR to properly interface with your equipment, some setup is necessary.

Record on a Tape.

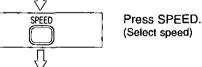


RFC

•

Insert a tape with Record Tab.

Press CH Up/Down. (Select Channel)



Press REC. (Start Recording)

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

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

