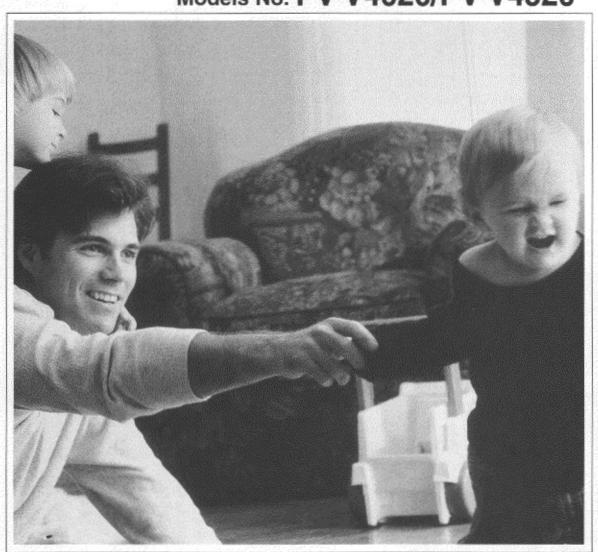
Panasonic



Omnivision WS

Video Cassette Recorder
Operating Instructions
Models No. PV-V4020/PV-V4520



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.)

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.



Quick Use Guide is on the back cover.















LSQT0191A

Important Safeguards and Precautions

OR CIRCUITS

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 nome.

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.

POLARIZED PLUG CAUTION:

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

GROUNDING PLUG CAUTION:

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

3 POWER CORD

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

4 DO NOT BLOCK VENTILATION HOLES

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

- a. Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.

 b. Avoid built-in installation, such as a book case
- or rack, unless proper ventilation is provided.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

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

6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- . 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.

Safety Precautions

OUTDOOR ANTENNA INSTALLATION

SAFE ANTENNA AND CABLE CONNECTION

SAFE ANTENNA ANTENNA OF CABLE SYSTEM

If an outside antenna or cable system

NEC - NATIONAL COOK

LECTRICAL COOK

TO SHATOMAL COOK

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

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES

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.

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.

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK After any service or repairs to the unit, request the service technician to conduct a through safety check as described in the manufacture's service literature to insure that the video unit is in safe operating condition.

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.





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



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

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Before Using

Congratulations

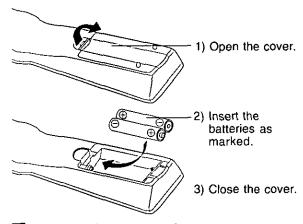
on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your VCR.

 Date of Purchase 	
 Dealer Purchased From 	
Dealer Address	
Dealer Phone No	
• Model No	
• Serial No	

Access	ories	
Remote	Control 06 (PV-V4020) 05 (PV-V4520)	Batteries 2 "AA"
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Model PV-V4520 remote is shown here.	☐ RF Coaxial Cable VJAS0196

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

Loading the Batteries



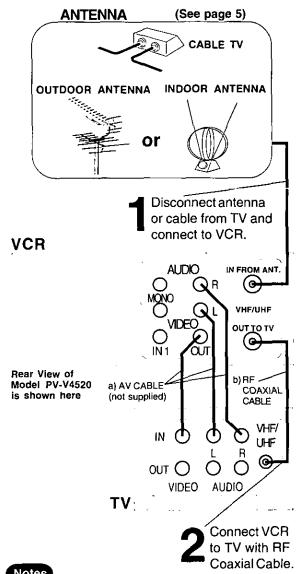
□ Battery replacement caution

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

Basic Connection

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.

Connect VCR and TV with an AV Cable (not supplied) or a RF Coaxial Cable (supplied) as shown in the figure below.



Notes

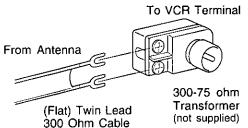
- While connection b) (above) is sufficient, connection. a) offers better sound and picture (especially with model PV-V4520, you can enjoy Hi-Fi STEREO sound).
- 2) For both connections a) and b) proceed as follows:
 - To use VCR: VCR Power on, set TV to VIDEO.
- To watch TV: VCR Power off, select channel on. 3) Set VCR Output to channel 3 or 4 (not an active
- station). (See page 6.) For model PV-V4520, use the L Audio OUT jack for proper sound reproduction when connecting to a monaural TV.

WARNING -

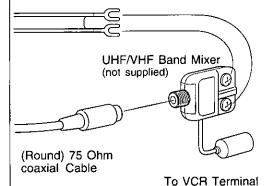
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

Between ANT, and VCR

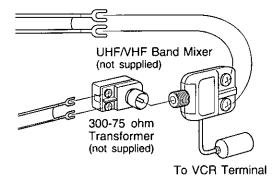
■ Case 1: Twin Lead Cable Only



■ Case 2: Twin Lead & Coaxial Cables



■ Case 3: Two Twin Lead Cables



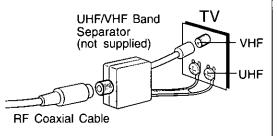
If your TV has both post and plug-type VHF terminals, the post connection is recommended to minimize signal loss.

Note to CABLE system installer:

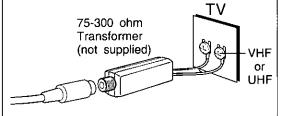
This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

2 Between VCR and TV

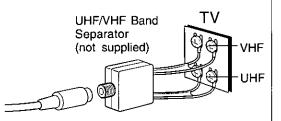
■ Case 1: Screw & Plug Type Terminal



■ Case 2: Screw Type Terminal

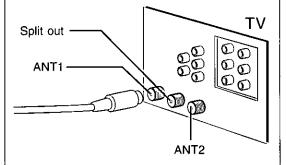


■ Case 3: Double Screw Type Terminal



■ Case 4: Complex TV Terminal

TERMINALS ON BACK OF TV SET



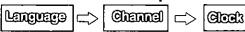
Connect to one of the ANT terminals and select the same antenna number on the TV.

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

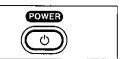
One Time VCR Setup

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

Process of Setup



1



SELECT LANGUAGE

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

TO CHANGE VCR'S OUTPUT CH, PUSH ACTTION KEY.

Press ACTION

IF YOU PUSH ACTION KEY,
VCR'S OUTPUT CH SWITCHES

♥ Press ACTION

After 3 seconds

PLEASE TUNE YOUR TV TO

TO CH 4.

Turn the TV and VCR on. Press POWER*.

Set TV Channel to CH 3.

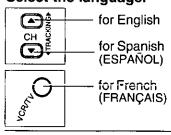
 If using AV Cable connection, set TV to Video instead of channel. (See connection a) on page 4.)

2



This display appears for first time setup only.

Select the language.



When using connection b) (see page 4), tune TV to VCR's output channel.

If there is beat or noise on CH3, change VCR's output channel to CH4 by pressing ACTION twice.

- . Always tune TV to this channel to monitor the VCR.
- If you used audio/video jack connection, tune the TV to its video input.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 30.

3



:ACTION KEY

:► KEY

END

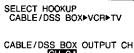
Select hookup.



- Press ▲▼ to select.
- 2) Press ► to set.

 If you selected "CABLE/ DSS BOX ► VCR ► TV," continue with step 4 and only the cable box output channel will be placed in memory.
 If not, go to step 6.

4



CH 01

SELECT: A ▼ KEY

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

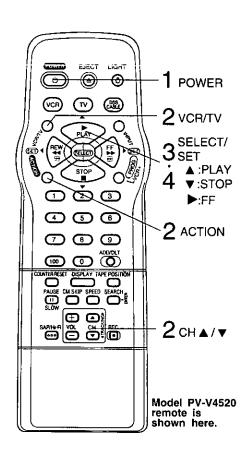
Select cable box or DSS receiver output channel.

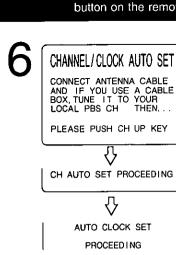


- Press ▲▼ to select.
- 2) Press ► to enter.
- · If necessary, refer to cable box manual.
- If you used Audio/ Video jack connection to cable box, set "VIDEO OUT".

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

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





Start Channel Auto Set and Clock Auto Set.

CH THACKING $\overline{\mathbf{v}}$

Press CH A.

CH AUTO SET PROCEEDING

AUTO CLOCK SET PROCEEDING

Case 1

(Setup completed)

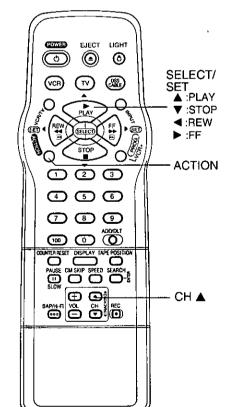
1/ 4/2000 TUE 12:00PM DST : ON SETTING : CH 02 AUTO CLOCK SET

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 29.



Model PV-V4520 remote is shown here.

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 to work.

Case 2 (Setup incomplete)

AUTO CLOCK SET IS INCOMPLETE

PUSH ACTION TO SET CLOCK





: **◄ ▶** KEY START : ACTION KEY Clock Setup incomplete. Set the clock manually.



1) Press ACTION.



- 2) 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.

Notes

- VCR calendar is accurately maintained to Dec. 31, 2096 11:59PM.
- Channel auto set selects normal TV or Cable channels depending on your VCR hookup.
- To reset Language, Channels, Clock or VCR's Output Channel see pages 28 and 29.

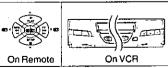
Using **▲▼**◀▶ keys

You can also operate the menu screen using VCR buttons.

When menu screens are displayed, the PLAY, STOP REWIND, and FF buttons on the VCR and remote function as ▲▼◀▶ only with no tape inserted.

To exit the menu, repeat above with or without tape inserted.

To display menu using VCR buttons, press CH ▲ and CH together.

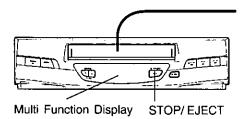


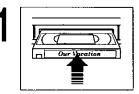
▲: PLAY ■: REW ▼:STOP ▶:FF

Playback a Tape

- Check list before you begin.
- All connections are made.

 TV and VCR are plugged in.
- TV is turned on and tuned to CH3, 4 or Video.
- ☐ Remote is in VCR mode.





Insert a cassette.

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

2



Press PLAY.

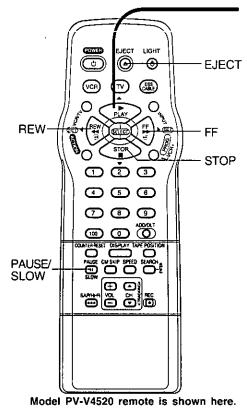
- Or, if cassette has no record tab (see page 30), auto playback begins.
- These features work best in SP or SLP mode.
- . The sound will be muted.
- To Find a Particular Scene
 Forward Search --> Press FF. (To release, press PLAY
 or FF.)

Reverse Search --> Press REW. (To release, press PLAY or REW.)

- For Still (Freeze) picture --> Press PAUSE/SLOW.
 (To release, press PLAY.)
- For Frame by Frame picture --> Press PAUSE/SLOW in Still mode.
 (To release, press PLAY.)
- For Slow Motion --> Press and hold PAUSE/SLOW in Still mode. (To release, press PLAY.)



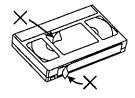
- To reduce picture noise, see "Manual Tracking Control" on page 31.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.
- To stop --> Press STOP.
- To rewind tape --> Press REW in Stop mode.
- To fast forward tape --> Press FF in Stop mode.
- To eject tape --> Press EJECT on the remote or STOP/ EJECT on the VCR.

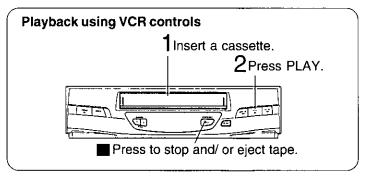


Note

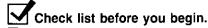
To prevent tape jam

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

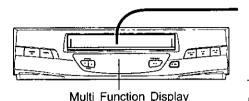




Record On a Tape 'Important: If the remote control POWER, ACTION, PROG/VCR+, CH A/V, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.



- All connections are made.
- TV is turned on and tuned to CH3 or 4 or Video.
- Cassette record tab is in place.
- Remote in VCR mode.



LIGHT

(<u>6</u>)

(5)

Model PV-V4520 remote is shown here.

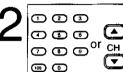
ADDIDL

0

Record tab

Insert a cassette.

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



Select Channel.

Press CH ▲ / ▼* or NUMBERED keys.

- To select "LINE," see page 11.
- To select channels over 100, first press 100 key, then enter remaining two digits.



VCR/TV

STOP

PAUSE/

SPEED

SLOW

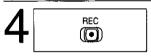
REC



Select Recording speed.

(See page 30.) Press SPEED.

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



SPEED

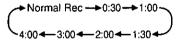
Start Recording.

Press REC.

- To edit out unwanted portions, press PAUSE/SLOW to pause and to 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 the 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 (You cannot view another channel during recording.)

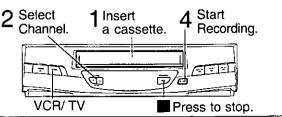
Press VCR/TV--> "VCR" appears on Multi Function Display --> Select Channel at the VCR (applies to connection b) only. (See page 4)

Note

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

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the WHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

Record using VCR controls

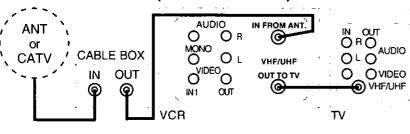


Advanced Connections

Be sure to tune TV to VCR output channel. (The same one you set on screen of TV: CH3 or CH4.) All connections on these pages are made with 75 Ohm coaxial cables.

ATV Connection

With a Cable Box (Cable Box→VCR)

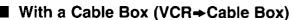


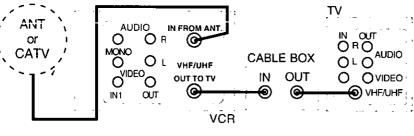
You Can

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

You Cannot

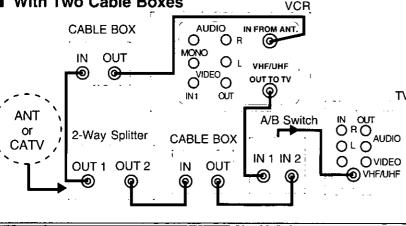
- · view channel other than the one selected for any type of recording.
- · do a Timer recording of a channel unless you select it at the cable box.





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





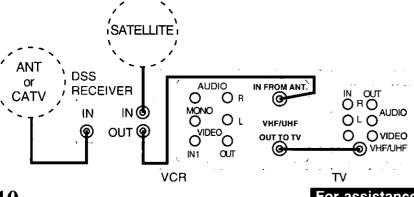
 record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch,

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.

DSS Connection



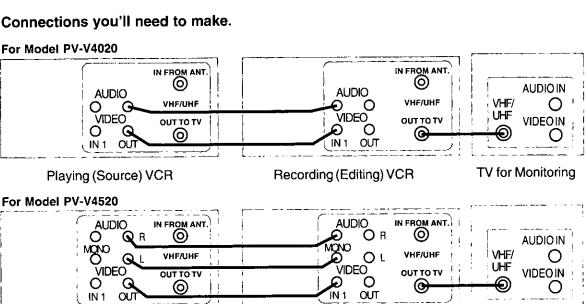
- · record and view any (including scrambled) channel.
- use your VCR Remote Control to select channels using Multi-brand control feature.
- view channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.

NOTE:

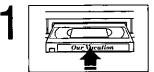
DSS receiver must be turned off to view cable box or antenna programs.

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

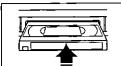
Copying Your Tapes (Dubbing)







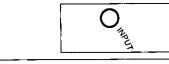
insert pre-recorded tape.



Insert blank tape

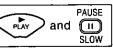
Recording (Editing) VCR

with record tab.



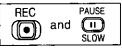
Select LINE mode.

Press INPUT. (See "Selecting the Input Mode" below.)



Put in Standby mode.

Press PLAY, then PAUSE/SLOW at starting point.



Put in Standby mode.

Press REC, then PAUSE/SLOW immediately.



Start dubbing.

Press PLAY.



Start dubbing.

Press PAUSE/SLOW.



Stop dubbing.

Press STOP.



Stop dubbing. Press STOP.

■ To Monitor Dubbing on Your TV

- 1 Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).
- 2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

Note

Dubbing tapes protected with Copy Guard will have poor quality results.

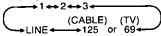
■ Selecting the Input Mode

Method 1: Press INPUT.

Channel Number <--> LINE

Method 2:Press CH ▲ / ▼.

Display will change as below.



 "L" lights in Multi-Function Display (about 4 sec.) when LINE is selected.

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

Timer Recording

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



Display SET PROGRAM.

Press PROG/VCR+.*

Or to display Program screen from the Menu.

- 1) Press ACTION to display Menu.
- 2) Press ▲▼ and ▶ to select and set SET UP FEATURE.
- Press ► to display Program screen.
- 4) Go to step 3.
- · You may also use VCR buttons. See the bottom right .

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 30.)
 - Remote in VCR mode.



RATE / START

SELECT START DATE

SELECT: ▲ ▼ KEY

END

· KEY

SELECT: ▲ ▼ KEY SET : ► KEY

: PROG KEY

You cannot use the VCR buttons when on "SET PROGRAM" screen.

STOP

Display Program screen.



- If a program is already in memory, press ▲▼ and to select an unused program number.

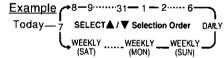
ÇН

SLP

Set the recording DATE.



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



PROG/ACTION KEY

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

P DT START STOP CH SPD 1 8 10:00P12:00P 02 SP

CANCEL: ADD/DLT KEY SELECT 1-8: ▲ ▼ KEY ENTER : ► KEY :PROG/ACTION KEY

End the program.



 Press PROG/VCR+ (or ACTION).

To Enter More Programs

Press ▲▼ to select, and ▶ to display a blank program number. Then repeat step 3.

> Press PROG/VCR+ (or ACTION) again to exit.

Set the timer.

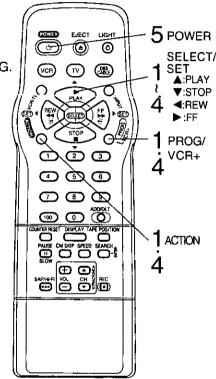
TIMER –

Multi Function Display



Press POWER off.

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



Model PV-V4520 remote is shown here.

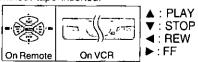
Timer Recording Using VCR Buttons.

Using **▲▼**◀▶ keys

You can also operate the menu screen using VCR buttons.

When menu screens are displayed, the PLAY, STOP, REWIND, and FF buttons on the VCR and remote function as ▲▼◀ ▶ only with no tape inserted.

To exit the menu, repeat above with or without tape inserted.



To display menu using VCR buttons, press CH ▲ and CH ▼ together.

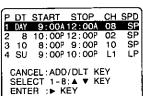
Review, Replace or Clear Program Contents:

(Recording is not in progress)

Repeat steps 1~2 on page 12.

:PROG/ACTION KEY

2



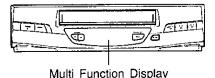
Select program.



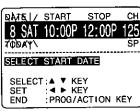
 Press ▲▼ to select number.

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.)



To Replace program...

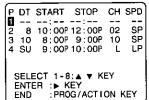




- Press ► to display.
- Press ▲▼ ◀► to set new program contents.

or

To Clear program...





1) Press ADD/DLT to clear.

4

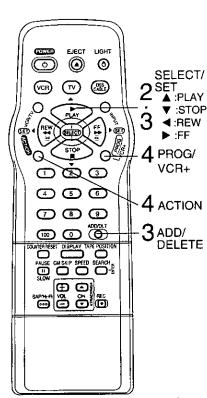


End the program.

- 1) Press PROG/VCR+ (or ACTION).
- If there are programs, press POWER off.

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.



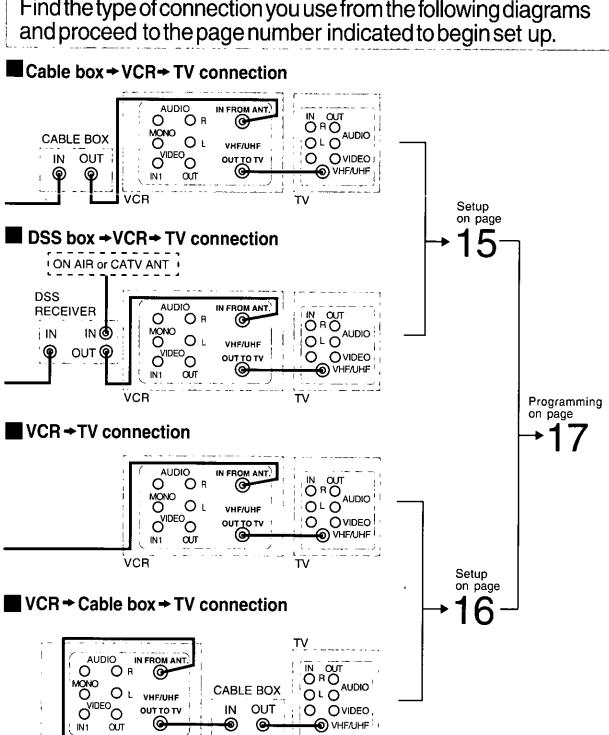
Model PV-V4520 remote is shown here.

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 ©ത്നാങ്ങി⇔|Setup |⇔|Programming

Find the type of connection you use from the following diagrams and proceed to the page number indicated to begin set up.



VCR

Cable Box Setup

Process of Recording

Connection ⇒ Samp ⇒ Programming

1



Display menu.

Press ACTION.*

2

MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
TDIOMA/LANGUE: ENGL | SH
VCR'S OUTPUT CH: 3

IDIOMA/LANGUE: ENGLISI VCR'S OUTPUT CH:3 SELECT: ▲ ▼ KEY SET : ▶ KEY END : ACTION KEY

Select SET UP CHANNEL.

Select CABLE/DSS BOX



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

3

SET UP CHANNEL ANTENNA : CABLE AUTO SET WEAK SIGNAL DISPLAY

WEAK SIGNAL DISPLAY : OFF CABLE/DSS BOX SET UP VCR Plus+ CH SET UP

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



SET UP.

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

4

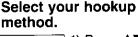
SELECT HOOKUP

CABLE/DSS BOX-VCR-TV

VCR-CABLE/DSS BOX-TV

VCR-TV

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





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

Select cable box or DSS

5

SELECT HOOKUP CABLE/DSS BOX-VCR-TV

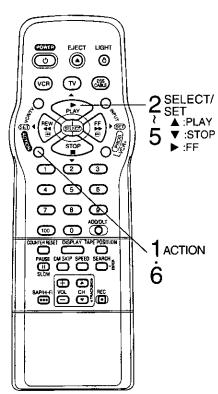
CABLE/DSS BOX OUTPUT CH

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



- 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-V4520 remote is shown here.

6



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.*



:ACTION KEY

Select SET UP CHANNEL.

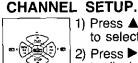


- Press ▲▼ to select. Press
- to display.



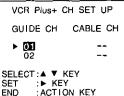
VCR Plus+ CH SET UP ► KEY SET

ACTION KEY

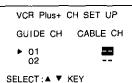


- 1) Press ▲▼ to select.
- Press ► to display.

END



SELECT: ▲ ▼ KEY



: ◀ KEY SET :ACTION KEY

Enter VCR Plus+ channels.

Select VCR Plus+



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

To Make Corrections,

press $\blacktriangle \nabla$ and \blacktriangleright to move to error, then $\blacktriangle \nabla$ to change, or ADD/DLT to erase number.



End setup.

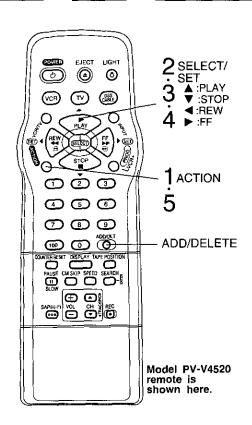
Press ACTION three times.

Notes

- · Make each entry within 5 minutes or the VCR will exit 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

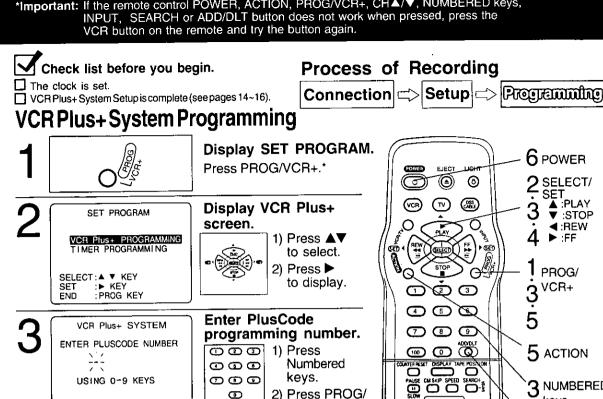
in order to complete step 4 (at left), make a local channel list (see example below).

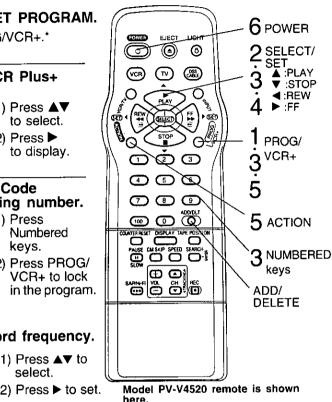
You will need the following:

- 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.

EVAMBLE 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	







START STOP 10:00P TODAY SELECT RECORD SPEED

To Make Corrections.

press ◀ repeatedly to delete the PlusCodeprogramming number.

DAILY (MON-FRI) WEEKLY

▶ KEY

:PROG KEY

SELECT: ▲ ▼ KEY

END

VCR Plus+ SYSTEM

02

Select record speed.

Enter record frequency.



©

- 1) Press ▲▼ to change.
- Press ► to set.

VCR+ to lock

1) Press ▲▼ to select.

in the program.

SELECT: ▲ ▼ KEY SET : ◀ ► KEY PROG/ACTION KEY **END**

-- --:-- --:--

CANCEL: ADD/DLT KEY SELECT 1-8: ▲ ▼ KEY ENTER : ► KEY

End programming.



1) Press PROG/ VCR+ (or ACTION). • replace program contents.

To cancel press ADD/DLT.

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



Press PROG/ VCR+ (or ACTION) again to exit.

Use normal Timer Recording steps if:

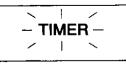
- · the PlusCode programming number for a program is not listed.
- you anticipate the program, such as a sporting event, to run over the scheduled stop time.

See page 13 to:

- · cancel a timer recording in progress.
- · 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.



8 10:00P12:00P 02 SP

:PROG/ACTION KEY

Multi Function Display

Set timer.



Press POWER off.

Notes

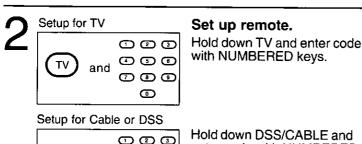
- · Avoid overlapping program times.
- VCR PlusCode programming numbers can not be used to program the VCR to record DSS channels.
- · You can obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs approximately \$.95 per minute.

Multi-Brand Control Feature

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

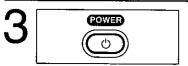
Multi-Brand Control Setup

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



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.



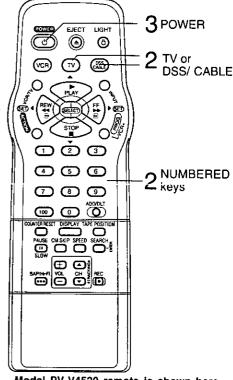
Confirm code entry.

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-V4520 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.

Available Mode Buttons		TV	CABLE/ DSS
VCR	All Functions	VOL UP/DOWN	
TV	VCR/TV, PLAY, STOP EJECT, SAP/Hi-Fi (PV- V4520 only), DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET, TAPE POSITION, CMSKIP	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS	VCR/TV, PLAY, STOP EJECT, SAP/Hi-Fi (PV- V4520 only), DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET, TAPE POSITION, CMSKIP	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 Zenith 04	Sylvania 05 Sharp 06, 07 Sony 08 Toshiba 09 Sanyo 10 Fisher 10	Hitachi 12 Mitsubishi 07, 13 Samsung 14

Cable Box Brand Code Numbers	
Archer 05, 06, 01, 44, 63, 91, 126	Quest
Cabletenna	Radio Shack
Cableview	RCA
Century 51, 44, 59, 75, 126	Realistic
Citizen	Recoton
Curtis	Regal 14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond	Regency28, 130
Drake	Rembrandt
Eagle 13, 22, 58, 62, 20, 40, 26, 107	Salora 68
Eastern	Samsung
GC Brand	Scientific Atlanta
Gemini04, 124	Sheritech27
General Electric	Signal26, 112
General Instruments 01, 02, 03, 04, 34, 55, 83, 106,	SL Marx32, 40, 42, 06, 43, 44, 52, 63, 126
65, 67, 68, 115, 117, 118, 124, 91	Sprucer 16, 17, 97, 109
Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130	Standard Components 32, 39, 42, 44, 126
Hitachi 31	Stargate 32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126
Jasco04, 124	Sylvania19
Jerrold01, 02, 03, 04, 34, 55, 83, 106,	Teknika 74
65, 67, 68, 115, 117, 118, 124, 91	Telecaption77, 127
Macom 31	Teleview 32, 40, 42, 06
Magnavox26, 112	Texscan18, 19
Matsushita 16, 17, 97, 109	Tocom 33, 34, 01, 42, 66, 91
Movietime	Toshiba 36
NEC 38, 40, 32	Uniden Satelite65
NOVAVISION	Unika 01, 44, 63, 91, 126
NSC 38, 40, 32	Universal42, 43, 44, 52, 63, 126
Oak 46, 11, 129	Videoway 07, 23, 50, 129
Oak Sigma 46, 11, 129	Vid Tech64
Panasonic	Vidtek 64
Philips 07, 13, 20, 23, 24, 50, 128, 129	Viewstar 13, 22, 58, 62, 20, 40, 26, 107
Pioneer05, 06	Zenith 07, 23, 50, 129
Pulsar	

DSS Brand Code Number	s		
ToshibaHitachi/ Hughes		Panasonic	
Magnavox/ Uniden 1		Sony	
Magnavox/ Uniden 2	95		

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.

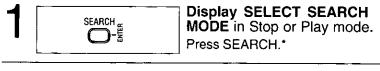
Tape Operation

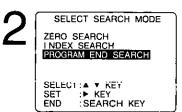
Search System

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

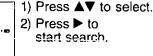
Program End Search

It is easy to locate the end of a recorded program allowing you to continue recording where you left off.

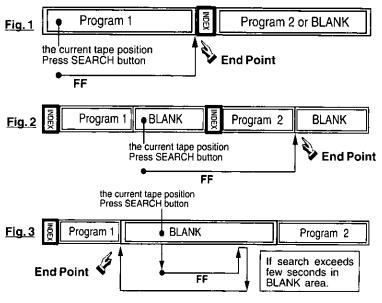


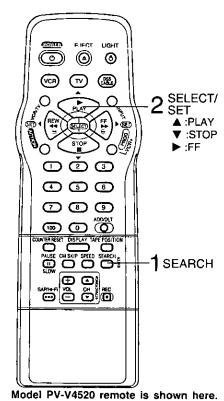


Select PROGRAM END SEARCH.



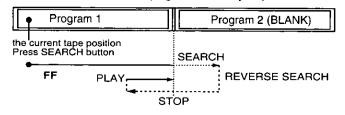
Examples of **Program End Search** operation.





If Program End Point () is found.

The search continues slightly beyond the end point, then search and reverse search and plays the last few seconds of the program and finally stops.



Notes

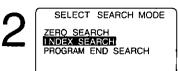
- If Program End Search is started very close to an index mark, one program may be skipped over.
- To cancel Program End Search, press PLAY or STOP.

Index Scan (For normal and /or timer recordings)

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

SEARCH E

Display SELECT SEARCH **MODE** in Stop or Play mode. Press SEARCH.*



SELECT: ▲ ▼ KEY

SEARCH KEY

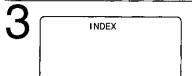
.► KEY

SET

END

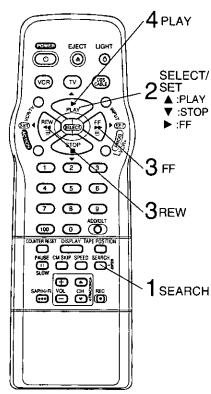


Press ► to display.

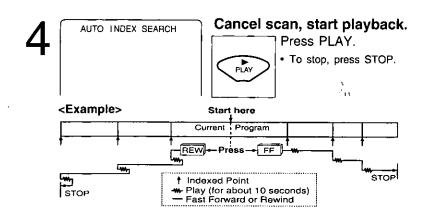




Press FF or REW.



Model PV-V4520 remote is shown



Auto Operation Functions

■ Auto Playback

Insert tape --> Power turns on --> --> Starts playback if record tab (see page 30) is removed.

■ Auto Rewind

Playback Manual Record --> Tape end --> Fast Forward -->Rewinds (Auto)

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

Playback --> Tape end --> Rewinds -->Tape ejects (if without record tab)

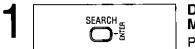
■ Memory Rewind Off

Rewind --> Press POWER --> -->Turns off after completed

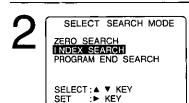
Tape Operation (continued)

Direct Access (For normal and /or timer recordings)

Go directly to desired recording.



Display SELECT SEARCH MODE in Stop or Play mode.
Press SEARCH.*



:SEARCH KEY





- Press ▲▼ to select.
 Press ► to display.
- Select the recording number.

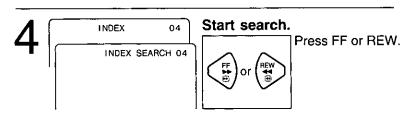
 Press NUMBERED keys.

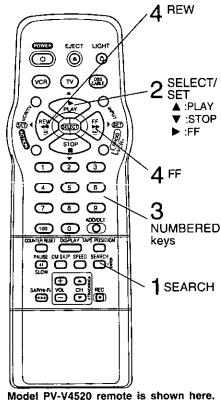
 \odot \odot \odot

 $O \odot \odot$

©

To calculate number, see below.

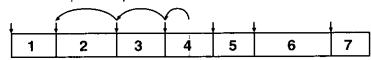




■ To Calculate Index Number

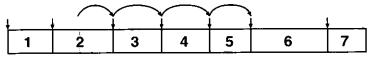
Example 1:

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.

Tape Operation

Repeat Play

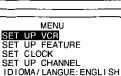
Set to playback a recording over and over.





Display menu.

Press ACTION.*



Display SET UP VCR.

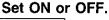


 Press ▲▼ to select. Press ► to display.



VCR' S OUTPUT CH:3
SELECT: ▲ ▼ KEY
SET : ► KEY

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





OFF

ON

- Press ▲▼ to select "REPEAT PLAY. 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."



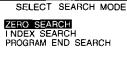
Press COUNTER RESET at the desired position.

Continue to record, playback etc.



Display SELECT SEARCH MODE in Stop mode.

Press SEARCH.*

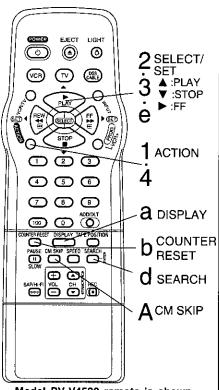


SELECT: ▲ ▼ KEY SET ▶ KEY **END** :SEARCH KEY

Start ZERO SEARCH



- Press ▲▼ to select.
- Press ► to start.
- Unit will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.



Model PV-V4520 remote is shown here.

Commercial Skip

VCR fast forwards (skips) over 1~3 minutes of recorded tape.



Press CM SKIP in Play mode.

. The skip time can be changed by pressing CM SKIP button repeatedly as shown by the figure below.

> PLAY 1st Press --+ 1 min Skip 2nd Press → 2 min Skip 3rd Press → 3 min Skip

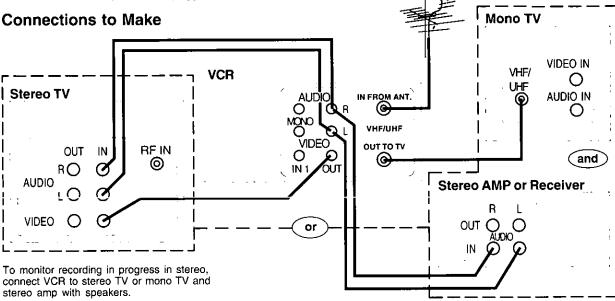
MTS Broadcast/VHS Hi-Fi Stereo System

For Model PV-V4520 only



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

VCR and other components are plugged in and turned on.



Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "fk" 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.

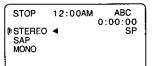
SAP broadcast

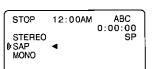
Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

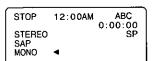
MONO broadcast

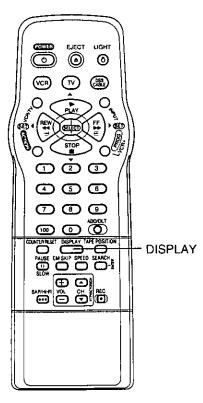
Normal monaural sound broadcast.











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 the 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

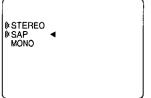
Display audio mode.

Press SAP/ Hi-Fi.

SAP/Hi-Fi

(000)

2



Arrow indicates selection.

Select desired mode.

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

 Refer to "Receivable Broadcast Types" on page 24.

3 Do a recording. See page 9.

Audio Mode for Playback

Start playback. See page 8.

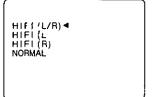
b



Display audio mode.

Press SAP/ Hi-Fi.

<u>C</u>



Arrow indicates 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

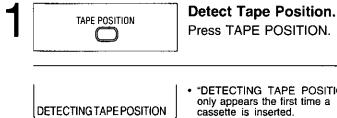
- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amp and speakers. (See page 24.)
- If tracking is adjusted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

Special VCR Features

Tape Position Display Feature

To find out the present tape position.

Tape position cannot be detected for VHS-C Cassette types and tapes of less than 60 minutes length.



FND

- "DETECTING TAPE POSITION" only appears the first time a cassette is inserted.
- It takes several seconds for correct indication to appear.
- The present tape position Indication is displayed.



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.





Display menu.

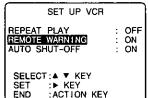
Press ACTION.*



Display SET UP VCR.



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



Set ON or OFF.



- Press ▲▼ to select.
- Press ► to set.
- "OFF" --> remote warning will not appear even if invalid key is pressed.



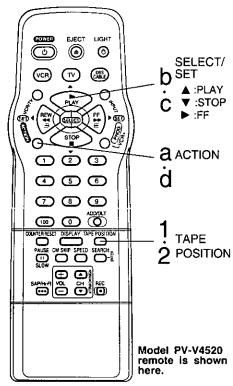


Return to normal screen.

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 tuned to CH3, 4 or Video.



VCR Lock Feature

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





Press REC in Stop mode.

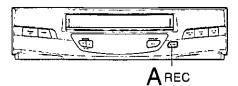
VCR LOCK ACTIVATED

To turn ON: 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.



Weak Signal Display ON/OFF Feature

When "ON" is selected, picture is displayed even when broadcast signal is weak or not present.

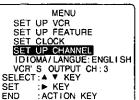
1



Display menu.

Press ACTION.*

2



Display SET UP CHANNEL.



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

3





Set ON or OFF.

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

- SET : KEY
 END : ACTION KEY
- 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.

4



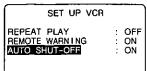
Return to normal screen.

Press ACTION twice.

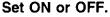
Auto Shut-Off Feature

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 26 to display SET UP VCR.









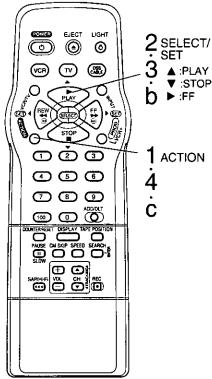
- Press ▲▼ to select.
- 2) Press ▶ to set.

C



Return to normal screen.

Press ACTION twice.



Model PV-V4520 remote is shown here.

Reset Language, Channels, Clock, VCR's

MENU SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 SELECT: ▲ ▼ KEY SET : ► KEY :ACTION KEY



Display menu. Press ACTION.*

2 ■ Language
1) Press ▲▼ to select

language item.

MENU SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 SELECT: ▲ ▼ KEY . ► KEY :ACTION KEY

Press ► repeatedly.

MENU SET UP VCR SET UP FEATURE SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 SELECT: ▲ ▼ KEY :► KEY SET :ACTION KEY

For English

MENU PREPARAR VCR FIJACION DE FUNCIONES FIJAR RELOJ FIJAR CANAL LANGUE/LANGUAGE: ESPAÑOL SALIDA DE VCR CANAL: 3 ELEGIR:▲ ▼ FIJAR : TERMINAR: ACTION

For Spanish

MENU REGLAGE MAGNETOSCOPE REGLAGE MAGNETO SUPPLEM REGLAGE HORLOGE LANGUAGE/ IDIOMA: FRANÇAIS CA SORTIE:3 SEL :A ▼ REGLER:▶ : ACT ION FIN

For French

Channels

 Press ▲▼ to select SET UP CHANNEL.

MENU SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH: 3 SELECT: ★ ▼ KEY SET : ► KEY :ACTION KEY

Press ►.

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

- 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 ▲.
- After Channel Auto Set is finished, Clock Auto Set will be performed.

Clock

 Press ▲▼ to select SET CLOCK.

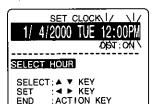
SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 SELECT:▲ ▼ KEY :ACTION KEY

Press ►.

SET CLOCK AUTO CLOCK SET TIME ZONE ADJUST : 0 SELECT: ▲ ▼ KEY SET : ► KEY : ACTION KEY END

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

- Press ▲▼ to select MANUAL and press \triangleright .
- For Auto Clock Set, select "AUTO CLOCK SET," then press CH A.



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

Output Channel

*Important: If the remote control POWER, ACTION, PROG/VCR+, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

Time Zone Adjust

(When Auto Clock is set only.)

1) Press ▲▼ to select SET CLOCK.

MENU SET UP VCR SET UP FEATURE SET CLOCK SET CLOCK

SET UP CHANNEL

IDIOMA/LANGUE:ENGLISH

VCR'S OUTPUT CH:3

SELECT: ▼ KEY

SET : ► KEY

END :ACTION KEY

Press ►.

SET CLOCK

AUTO CLOCK SET

TIME ZONE ADJUST : 0

SELECT: ▲ ▼ KEY · ★ KEY :ACTION KEY **END**

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

SET CLOCK

AUTO CLOCK SET TIME ZONE ADJUST : +1

SELECT: ▲ ▼ KEY

: ◀ KEY SET :ACTION KEY END

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

VCR's Output Channel

 Press ▲▼ to select VCR'S OUTPUT CH.

MENU SET UP VCR SET UP VON SET UP FEATURE SET CLOCK SET UP CHANNEL IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 ELECT: A ▼ KEY SET ▶ KEY **END** :ACTION KEY

Press ►.

IF YOU PUSH ACTION KEY, VCR'S OUTPUT CH SWITCHES TO CH 4.

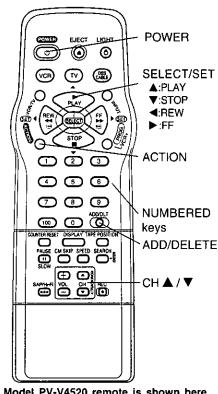
Press ACTION.

PLEASE TUNE YOUR TV TO

After 3 seconds

MENU SET UP VCR SET UP FEATURE SET CLOCK SET UP CHANNEL
IDIOMA/LANGUE: ENGLISH
VCR'S OUTPUT CH: 4
SELECT: ▲ ▼ KEY ▶ KEY END :ACTION KEY

 To Make Corrections, repeat step 1) ~ 3).



Model PV-V4520 remote is shown here.

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.

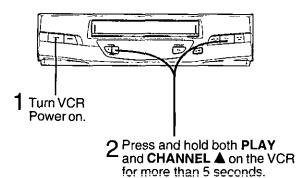
CHANNEL 08 DELETED

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.

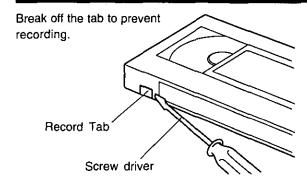
. Make sure a tape is not inserted in the VCR.

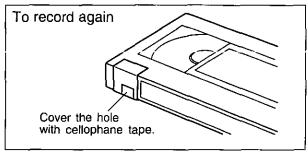


3 Do "One Time VCR Setup" steps on page 6.

. The power will shut off.

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 YHS 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	5Hours 20Minutes	
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.

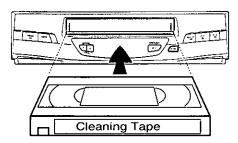
Video Head Clog Sensor

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 34.)

Specifications

Power Source: 120 V AC, 60 Hz

Power Consumption: Power On

Approx. 18 watts (PV-V4020) Approx. 23 watts (PV-V4520)

Power Off

Approx. 3.3 watts

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

scanning system
1 track (Normal)

2 channel (Hi-Fi Audio Sound)

(PV-V4520)

Tuner:

Audio Track:

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

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

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

Operating Humidity: 10 %~75 % **Weight:** 3.0 kg (6.6 lbs).

Dimensions: 380 (W) x 93 (H) x 250 (D) mm

14-15/16" (W) x 3-11/16" (H) x

9-3/4" (D)

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

Cleaning the VCR

Use a soft cloth or dusting attachment of a vacuum cleaner to 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. Press CH (TRACKING) ▲ / ▼ buttons on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.







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

On-Screen Displays (OSD)

Function & Channel Display

08

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.

Blank Tape/ No Video Signal Indication

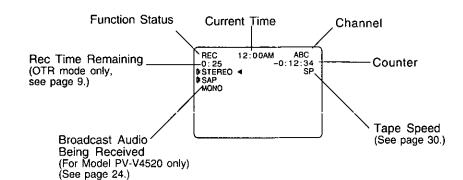
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 27) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

To display or remove the overlay at right.



Press DISPLAY.



Warning and Instruction Displays

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

			matructions.		
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)	12
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording and the Clock is not set	12	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	31
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set	12	VCR LOCK ACTIVATED	If you press a function button other than STOP/ EJECT or POWER while the VCR is in VCR Lock mode	26
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	30	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE TV : TV KEY	If you press any invalid keys on the remote while in CABLE/DSS mode	18 19 26
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	REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press any invalid keys on the remote while in TV mode	18 19 26

Before Requesting Service

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

Power	Correction
No power	 Completely insert Power Plug into an AC outlet. Set POWER button to ON. Make sure power source is active.
Recording & Playback	Correction
TV program cannot be recorded	 Check connections between VCR, external antenna, and TV. Check hook up selection. (P.4~5) Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.28]) Make sure cassette record tab is intact. (P.30)
Timer recording cannot be performed	 Confirm that clock is set to current time and date. Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded. Set recording start/stop times correctly. (P.12) Make sure POWER button is set to OFF. (P.12,13) 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.
There is no playback picture, or the playback picture is noisy or contains streaks	 Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (P.6) or select LINE. Set VCR/TV selector to "VCR." Adjust TRACKING control in either direction. (P.31) Try Head Cleaning. (P.31)
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	 Make sure VCR LOCK is set to off. (P.26) Make sure remote is in proper mode.(P.18) Make sure Timer Record is not in progress.
Remote Control	Correction
VCR cannot be remote controlled	 Aim Remote Control directly at remote sensor on VCR. (P.38) Avoid any object blocking signal path. Check remote batteries. (P.4) Make sure VCR LOCK is set to off. (P.26) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG/VCR+ buttons cannot be used	Press VCR button for VCR mode. (P.18) Check remote batteries. (P.4)
Miscellaneous	Correction
Programs cannot be viewed on TV	Set VCR/TV selector to "TV." (P.9) Make sure proper signal source is selected.
Video cassette cannot be inserted	 Insert the cassette with window side up; record tab facing you. Check if a tape is already in the unit.
Video cassette cannot be removed	Completely insert Power Plug into an 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.30)
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 ineffective, 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 Iwaiwa Street Aiea, Hawaii 96701 Phone (808)488-1996 Fax (808)486-4369

Service in Puerto Rico

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

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

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

As of 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):

<u>PRODUCT</u>	<u>PARTS</u>	<u>LABOR</u>
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS
VCR	ONE (I) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (I) 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

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

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

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-211-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.

 Si se utiliza un cable de conexión AV, sitúe el TV en la posición Vídeo en lugar de en la posición canal. (Véase el punto a, en la página 4).

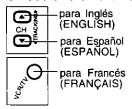
2

SELECT LANGUAGE PUSH CH A: ENGLISH OPRIMIN CH V: ESPANOL APP. VCR/TV: FRANÇAIS TO CHANGE VCR'S OUTPUT CH, PUSH ACTION KEY. VCR'S OUTPUT CH SWITCHES TO CH 4. PLEASE TUNE YOUR TV TO CH 4. Después de 3 segundos

Visualización de SELECCIÓN DE IDIOMA.

Esta visualización aparece sólo cuando realice la configuración por primera vez.

Seleccione el idioma.



Si se utiliza la conexión b) (véase la página 4), sintonícelo en el canal de salida de VCR.

Si la imagen tiene oscilaciones o ruido cuando el equipo esté situado en VCR OUTPUT CH3, cambie a CH4 pulsando ACTION dos veces. Luego, sintonice el TV en el CH4.

 Sintonice siempre el TV a este canal para monitorizar la video grabadora.

 Si utilizó la conexión del conector audio/video, sintonice el TV a su entrada de video.

 Si se ajusta el idioma equivocado, realice los pasos de "Reajuste de todas las funciones de memoria de la video grabadora" en la página 30.

ELEGIR LA CONEXION

CABLEJOSSE VOREN

VOREN

VOREN

ELEGIR: A V

TERMINAR: ACTION

Seleccione la conexión.

- Presione ▲▼ para seleccionar.
- Presione ► para ajustar.

 Si ud. ha elegido CABLE/ DSS ► VCR ► TV, continue al paso 4 y sólo el canal de salida del cable será memorizado.
 Si no, vaya al paso 6.

4 ELEGIR LA CONEXION
CABLE/DSS-VCR-TV

SALIDA DEL CABLE/DSS
GALOI

ELEGIR: 4 Y
FIJAR: 4 >
TERMINAR: ACTION

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

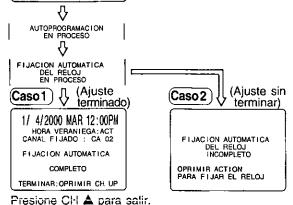
- Presione ▲▼ para seleccionar.
- 2) Presione para fijar.
- Si es necesario, consulte su manual de la caja de TV por cable.
- Si esta usando los terminales de audio/ video para su conexión para la caja de TV por cable, ajuste "SALIDA DE VIDEO".
- 5 Encienda la caja de TV por cable y fije la caja de TV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

FIJACION AUTO. (CA/RELOJ)

CONECTE EL CABLE DE LA
ANTENA Y SI ESTA USANDO
UNA CAJA DE TV POR CABLE
SINTONICE AL CANAL PBS
DE SU LOCAL
POR FAVOR OPRIMIR CH UP

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

Presione CH A.



Caso2) El ajuste del reloj es incompleto.

Ajuste el reloj manualmente.

- 1) Presione ACTION.
- Presione ▲▼ para seleccionar el mes.

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 ▶.

FIJACION AUTOMATICA
MANUAT
AJUSTE ZONA HORA : 0
ELEGIR: A ▼
FIJAR: TERMINAR: ACTION

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



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

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

Por ayuda llame al 1-800-211-PANA(7262).

Operaciones básicas para la reproducción

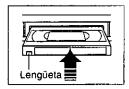
1 Inserte un casete.

· La videogrababora se enciende automáticamente.

2 Presione PLAY.

- O, si el casete no tuviera la lengüeta de grabación (véase la página 30), se inicia la reproducción automática.
- Para encontrar una escena en particular Búsqueda hacia adelante ---> Presione FF. Búsqueda hacia atrás ---> Presione REW.
- Para ver una imagen fija (congelada) ---> Presione PAUSE/SLOW.
- Para ver imágenes cuadro a cuadro --->
 Presione PAUSE/SLOW en
 el modo de imagen fija.
- Para ver en cámara lenta ---> Mantenga pulsado el botón PAUSE/SLOW en el modo de imagen fija.
- Para parar ---> Presione STOP.
- Para rebobinar la cinta ---> Presione REW.
- Para hacer avanzar la cinta rápidamente --->
 Precione FF
- Para expulsar la cinta ---> Presione STOP/EJECT en el viideogrababora.

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.

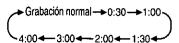
4 Comience la grabación.

Presione REC.

- Presione PAUSE/SLOW 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/VCR+.

FIJAR PROGRAMACION VCR Plus+ WEMPORIZZADOR ELEGIR: A ▼ FIJAR: P TERMINAR: ACTION

Exhiba "TEMPORIZADOR".

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

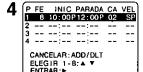


Ajuste la fecha de grabación.

- 1) Presione ▲▼ para seleccionar.
- 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), velocidad (SP, LP, SLP).



Termine el programa.

 Presione PROG/VCR+ (o ACTION).

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

2) Presione PROG/VCR+ (o ACTION) para salir.



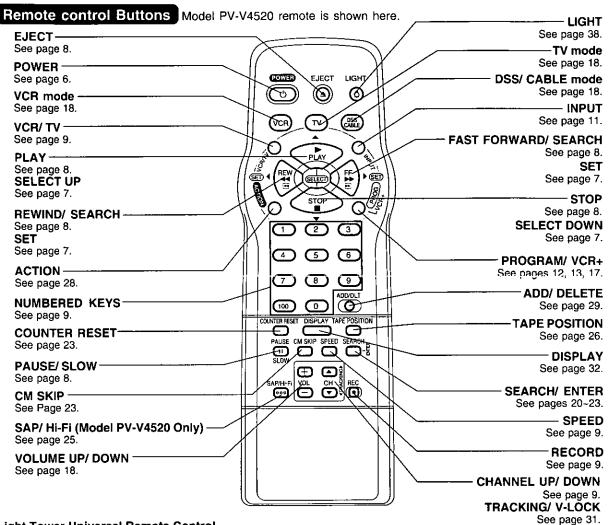
Grabación con temporizador.

Presione POWER para apagar.

Pantalla multifuncinal

 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 Tower Universal Remote Control

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 seconds, the light will turn off in order to conserve battery power. Also while holding down the buttons,

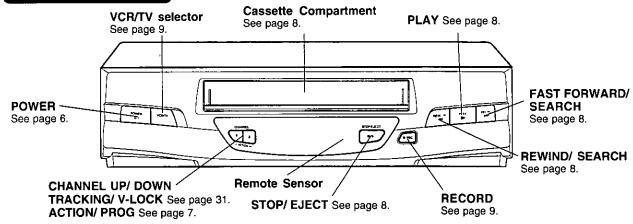
the selected mode button will flash so you will be able to see, in the dark, which mode has been selected.

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

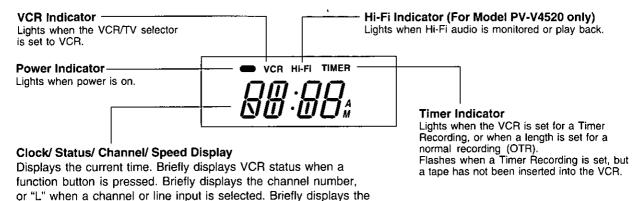
EJECT button: When EJECT is pressed, the tape is ejected from the Cassette Compartment.

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

Front View of the VCR

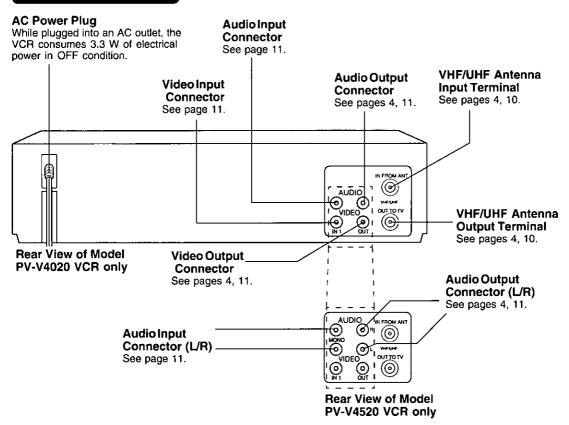


Multi Function Display



Rear View of the VCR

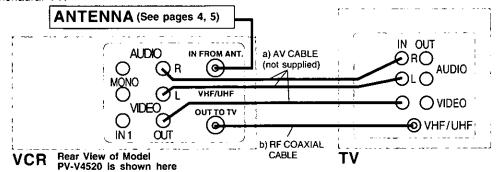
recording speed when SPEED is pressed.



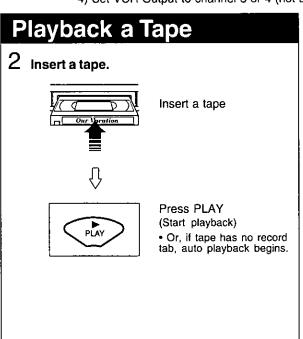
Quick Use Guide

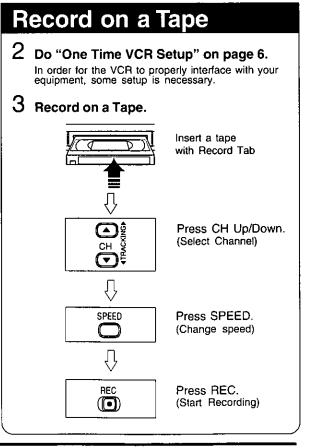
Make all connections (page 4).

Connect VCR and TV with AV Cable (not supplied) or RF Coaxial Cable (supplied) as shown below. To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO." For model PV-V4520, use the L Audio OUT jack for proper sound reproduction when connecting to a monaural TV.



- - Notes 1) While connection b) (above) is sufficient, connection a) offers better sound and picture (especially with model PV-V4520, you can enjoy Hi-Fi STEREO sound).
 - 2) For both connections a) and b) proceed as follows:
 - To use VCR: VCR Power on, set TV to VIDEO.
 - To watch TV: VCR Power off, select channel on.
 - 3) When using connection b) (see page 4), tune to VCR's output channel.
 - 4) Set VCR Output to channel 3 or 4 (not an active station). (See page 6.)





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