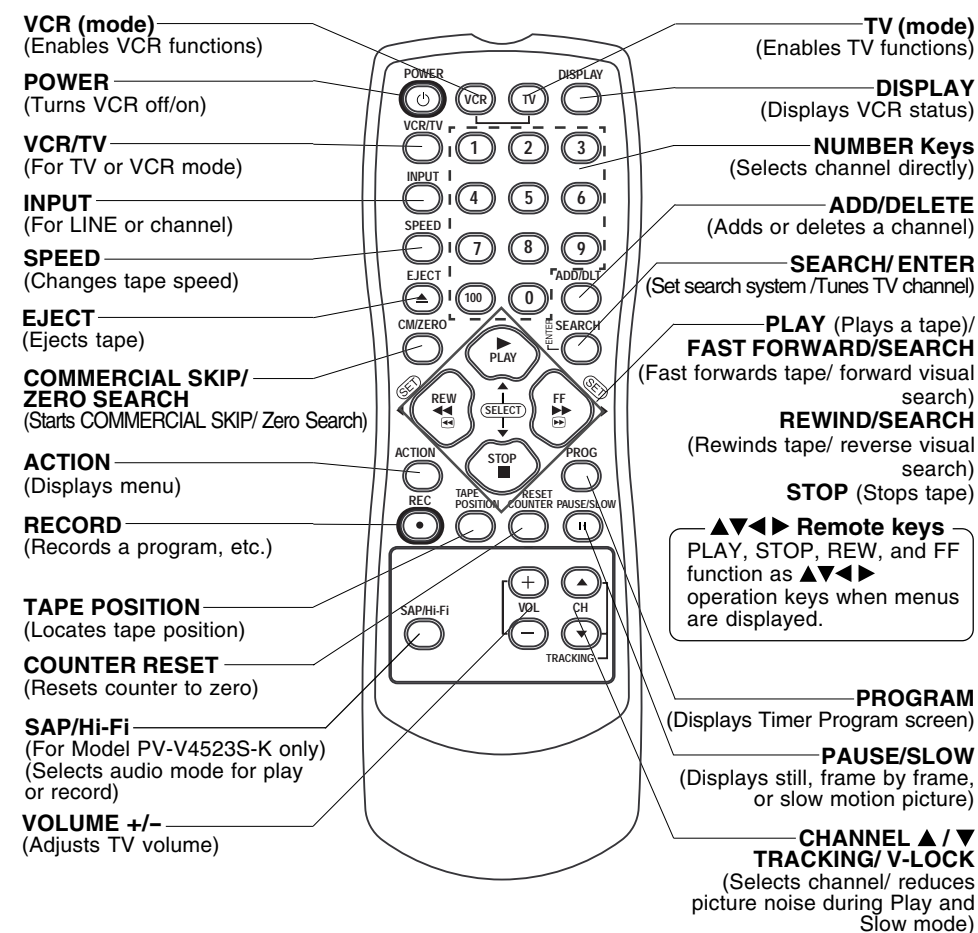


Location of Controls

Remote Control Buttons



Remote Control

EJECT button: Press to eject tape. EJECT is not available during recording.

Multi Function Display

Power Indicator

Lights up when power is on.

Timer Indicator

Lights up when the VCR is set for a Timer Recording, or when One Touch Recording (OTR) is used. Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.



VCR Indicator

Lights up when the VCR/TV selector is set to VCR.

Hi-Fi Indicator

(For Model PV-V4523S-K only) Lights up when Hi-Fi audio is monitored in Playback Mode.

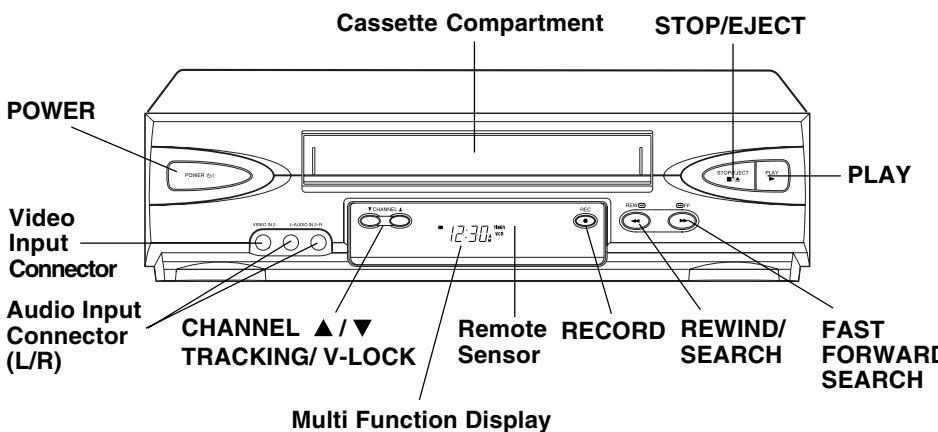
Clock/ Status/ Channel/ Speed Display

Displays the current time. Briefly displays VCR status when a function button is pressed. Briefly displays the channel number, or "L1" or "L2" when a channel or line input is selected. Briefly displays the recording speed when SPEED is pressed.

Location of Controls / Reset All VCR Memory Functions

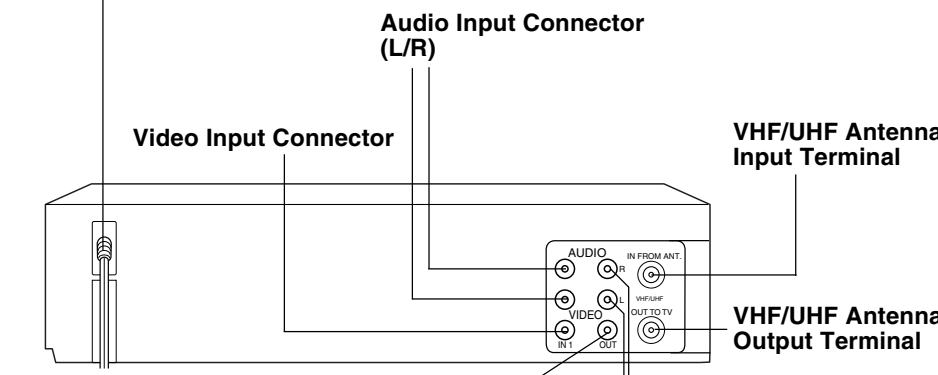
Front View of the VCR

Model PV-V4523S-K VCR shown.



Rear View of the VCR

AC Power Plug
 While plugged into an AC outlet, the VCR consumes 3.0 W (PV-V4523S-K) [2.5 W (PV-V4023-K)] of electrical power in off condition.

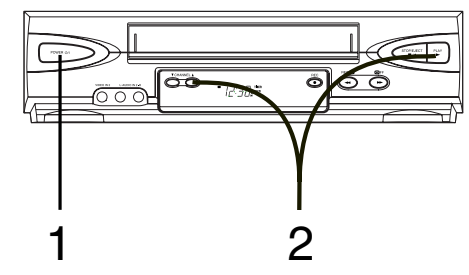


Rear View of Model PV-V4523S-K VCR only.

Rear View of Model PV-V4023-K VCR only.

Reset All VCR Memory Functions

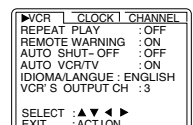
Use when moving VCR to new location, or if a mistake was made in the Initial Setup section (return to Factory Setting).
 • Make sure a tape is not inserted in the VCR.



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.

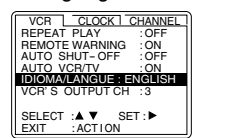
Reset Language, Channels, Clock, VCR's Output Channel



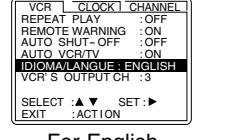
Press **ACTION*** to display MENU.

Language

1) Press **▲▼** to select language item.



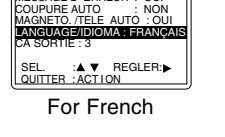
2) Press **▲▼** repeatedly.



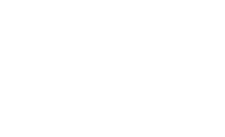
For English



For Spanish



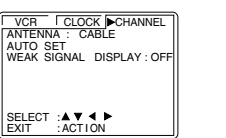
For French



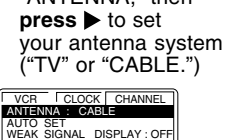
3) Press **ACTION** to exit this mode.

Channels

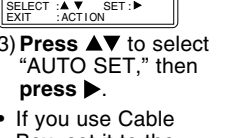
1) Press **◀▶** to select CHANNEL.



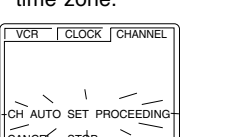
2) Press **▲▼** to select "ANTENNA," then press **▶** to set your antenna system ("TV" or "CABLE.")



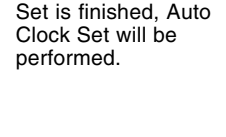
3) Press **▲▼** to select "AUTO SET," then press **▶**



• If you use Cable Box, set it to the PBS channel in your time zone.



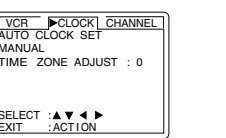
• After Channel Auto Set is finished, Auto Clock Set will be performed.



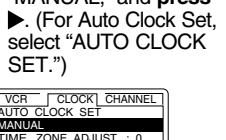
3) Press **ACTION** to start the Clock and exit this mode.

Clock

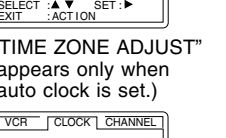
1) Press **◀▶** to select CLOCK.



2) Press **▲▼** to select "MANUAL," and press **▶**. (For Auto Clock Set, select "AUTO CLOCK SET.")



3) Press **▲▼** and **◀▶** to select and set the date, time, and DST (Daylight Saving Time).

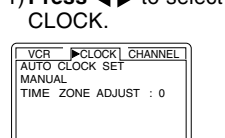


3) Press **ACTION** to start the Clock and exit this mode.

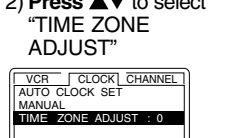
Time Zone Adjust

(Only when Auto Clock is set.)

1) Press **◀▶** to select CLOCK.



2) Press **▲▼** to select "TIME ZONE ADJUST"



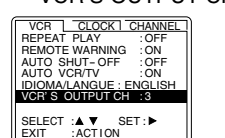
and press **▶** to subtract or add hour(s) as necessary.

3) Press **ACTION**.

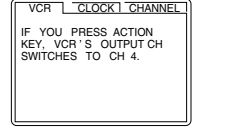
• "TIME ZONE ADJUST" returns to "0" if clock is set manually.

VCR's Output Channel

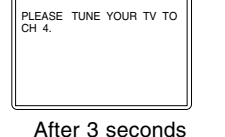
1) Press **▲▼** to select "VCR'S OUTPUT CH."



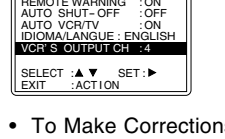
2) Press **▶**



3) Press **ACTION**.



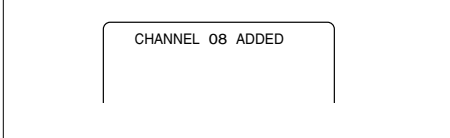
After 3 seconds



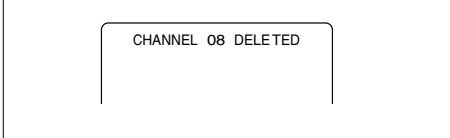
• To Make Corrections, repeat steps 1) ~ 3).

Add or Delete a Channel

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



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



DST (Daylight Saving Time)

VCR auto adjusts clock for DST.
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 VCR for timer recordings.

Limited Warranty

Panasonic Canada Inc.
 5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

VHS Video Cassette Recorder – One (1) year, parts and labour

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

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

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, EXCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.
 In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

For product operation and information assistance, please contact your Dealer or our Customer Care Centre at:

Telephone #: (905) 624-5505 Fax #: (905) 238-2360 Web: www.panasonic.ca

For product repairs, please contact one of the following:
 • Your Dealer who will inform you of an authorized Servicentre nearest you.
 • Our Customer Care Centre at (905) 624-5505 or www.panasonic.ca
 • A Panasonic Factory Servicentre listed below:

Richmond, British Columbia	Calgary, Alberta	Mississauga, Ontario
Panasonic Canada Inc. 12111 Riverside Way Richmond, BC V6W 1K8 Tel: (604) 278-4211 Fax: (604) 278-5627	Panasonic Canada Inc. 6835-8th St. N. E. Calgary, AB T2E 7H7 Tel: (403) 295-3955 Fax: (403) 274-5493	Panasonic Canada Inc. 5770 Ambler Dr. Mississauga, ON L4W 2T3 Tel: (905) 624-8447 Fax: (905) 238-2418

Lachine, Québec

Panasonic Canada Inc.
 3075, rue Louis A. Amos
 Lachine, QC H8T 1C4
 Tel: (514) 633-8684
 Fax: (514) 633-8020

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

Panasonic



Video Cassette Recorder Operating Instructions (Basic Operations)

For advanced operations, see the separate "Advanced Operations" instruction book.

Models No. PV-V4023-K/PV-V4523S-K

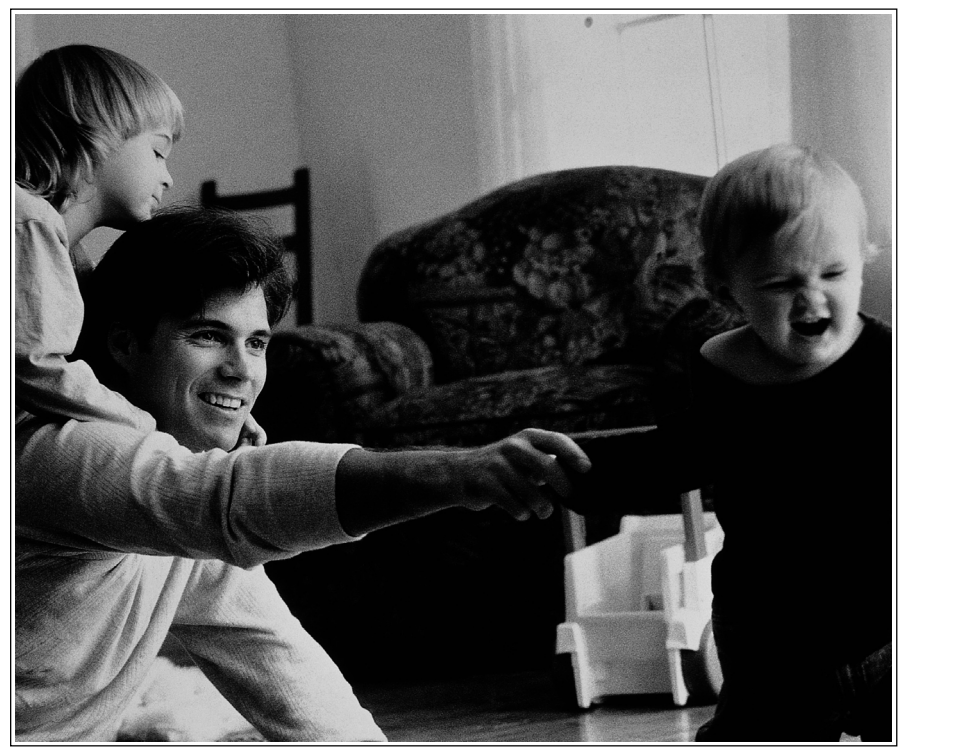


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As an ENERGY STAR® Participant,
 Panasonic has determined that this product or
 product model meets the ENERGY STAR®
 guidelines for energy efficiency.



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

Panasonic
 Panasonic Canada Inc.
 5770 Ambler Drive,
 Mississauga, Ontario L4W 2T3
 (905) 624-5010
 www.panasonic.ca

Montréal: 3075 Louis A. Amos, Lachine, Québec H8T 1C4 (514) 633-8684
 Toronto: 5770 Ambler Drive, Mississauga, Ontario L4W 2T3 (905) 624-8447
 Calgary: 6835 8th Street N.E., Calgary, Alberta T2E 7H7 (403) 295-3955
 Vancouver: 12111 Riverside Way, Richmond, BC V6W 1K8 (604) 278-4211

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 S0203-0

• Location of Controls (Remote Control Buttons, Multi Function Display, Front & Rear View of the VCR)

Important Safeguards and Precautions

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

INSTALLATION

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

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

- DO NOT BLOCK VENTILATION HOLES**
Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection, follow these rules:
a. Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
b. Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

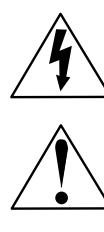
- AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES**
Do not place the unit over or near any kind of heater or radiator, in direct sunlight, inside a closed vehicle, etc. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

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

Safety Precautions

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.



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.

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

Before Using

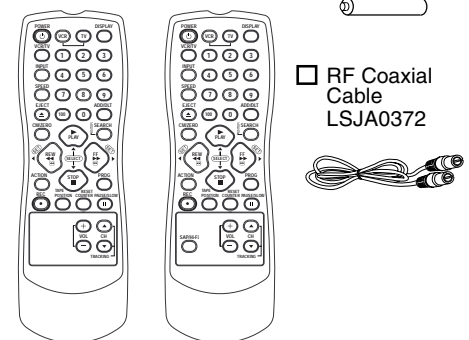
Congratulations

on your new purchase! With proper use, this dependable product will provide years of enjoyment. Please fill in the information below. (Serial number is on tag on back of VCR.)

- Date of Purchase _____
- Dealer Purchased From _____
- Dealer Address _____
- Dealer Phone No. _____
- Model No. _____
- Serial No. _____

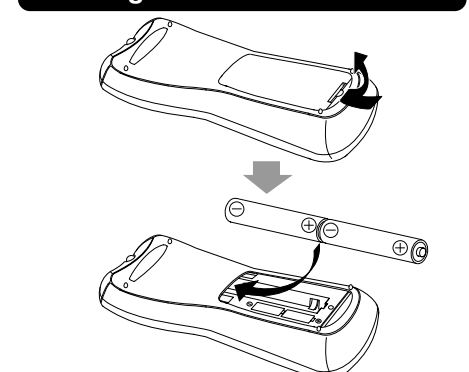
Accessories

- Remote Control LSSQ0263 (PV-V4023-K) LSSQ0389 (PV-V4523S-K)
- Batteries 2 "AA"
- RF Coaxial Cable LSJA0372



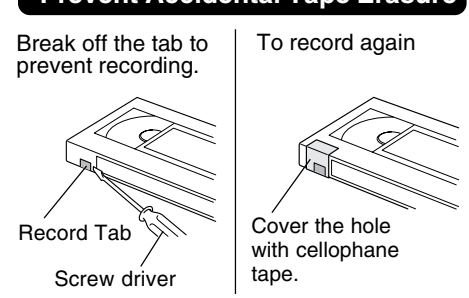
Model PV-V4023-K remote shown. Model PV-V4523S-K remote shown.

Loading the Batteries



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

Prevent Accidental Tape Erasure



Record/Playback Time

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

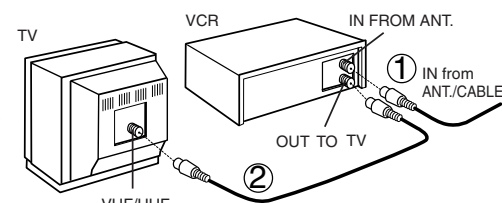
Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

Connections / Initial Setup (Ready to Play)

Please make all cable or antenna connections before plugging into the AC outlet. Plugging the VCR Power Cord into an AC wall outlet starts auto channel and clock set.

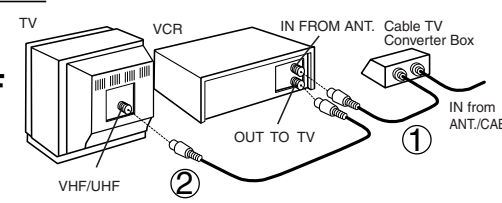
Connecting

- For ANT./Cable → VCR → TV**
- Connect cable from Antenna/Cable to VCR's IN FROM ANT. jack.
 - Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



For DSS/Cable Box → VCR → TV

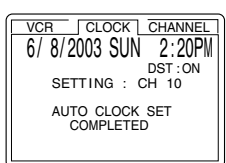
- Connect your cable box's OUT jack to the VCR's IN FROM ANT. jack with an RF Cable accessory.
- Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



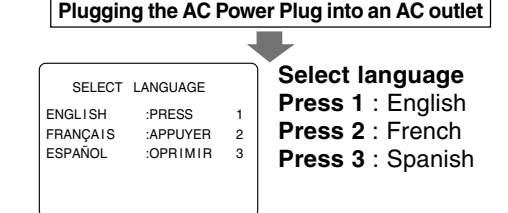
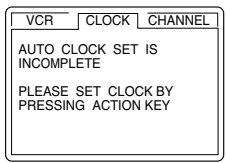
WARNING: Over tightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

Initial Setup (Ready to Play)

- Turn TV on and tune to channel 3.
- Plug VCR Power Cord into AC wall outlet. VCR comes on and SELECT LANGUAGE screen appears. When one of "1", "2", "3" keys is pressed, auto channel and clock set starts.
- Settings are made automatically. When setup is done, this screen appears.



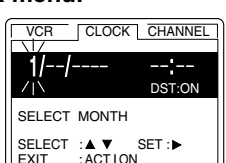
If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below.



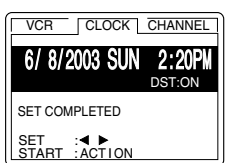
Manual Clock Set

If Auto Clock Set was incomplete.

- Press ACTION* on remote to display CLOCK menu.



- Press ▲▼ to select the month and ► to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time).



- Press ACTION to start clock and exit.

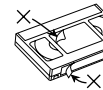
Notes

- Function buttons are inoperative during Initial Setup.
- To remove a cassette during Auto Set, press EJECT on the remote or STOP twice on the VCR. In this case, settings must be made manually. (See p. 11.)
- Depending on conditions, Auto Clock Set may take longer than 30 minutes. If so, press STOP to stop setup and perform settings manually. (See p. 11.)

Playback / Record on a Tape

Playback a Tape

- Insert a tape.
 - Loose or peeling labels may cause tape jam.
 - VCR power comes on. "VCR" lights on Multi Function Display.
 - If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.



- Press PLAY to play tape.
 - If tape has no rec. tab (p. 3), auto play begins.

Special Features During Play

- Forward/Reverse Scene Search**
 - Press FF or REW.
 - Press PLAY to release.
- After search has begun, each additional press of FF or REW changes speed as shown below.
 - [SLP] : Approx. 21X ↔ Approx. 9X
 - [LP] : Approx. 9X ↔ Approx. 7X
 - [SP] : Approx. 7X ↔ Approx. 3X
- If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

Notes

- Picture interruption may occur with some TVs.
- FF and REW search speed may vary depending on current tape position.
- Still (Freeze) Picture**
 - Press PAUSE/SLOW.
 - Press PLAY to release.
- Frame by Frame Picture**
 - Press PAUSE/SLOW in Still mode.
 - Press PLAY to release.
- Slow Motion Picture**
 - Hold down PAUSE/SLOW in Still mode.
 - Press PLAY to release.

Notes

- These features work best in SP or SLP mode.
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on p. 3.
- After VCR is in Still or Slow mode 3 minutes, it auto switches to Stop mode to protect the tape and the video heads.

- Press STOP to stop tape.

- Press REW or FF in Stop mode to Rewind or Fast Forward tape.
- Press EJECT on remote, or STOP/EJECT on VCR to eject tape.

Auto Operation Functions

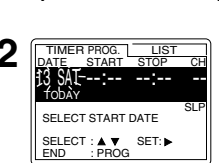
- Auto Play**
Insert a tape → Power comes on → Play starts if there is no record tab (see p. 3).
- Auto Rewind**
Play
Fast Forward } → Tape end → Rewind
- Play Auto Eject**
(Repeat Play must be off)
Play → Tape end → Rewind → Tape ejects if there is no record tab

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

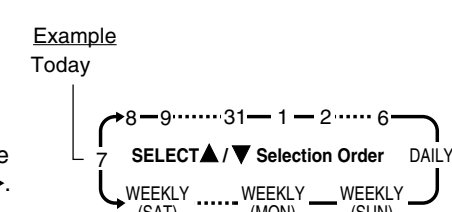
Timer Recording

Timer Recording

- 1) Press PROG*.
- 2) Press ▼ to display program screen.



- 1) Set record DATE, press ▲▼ to select:
 - 1-31= one time,
 - or DAILY= MON- FRI,
 - or WEEKLY= same time each week and press ►.
- 2) Set remaining items, press ▲▼ to select and press ► to set START/STOP times, CH (channel) or LINE input (p. 9 of "Advanced Operations" book), and tape speed (p. 3).



- 3) Press STOP to end programming.



- 4) Press POWER off to set the timer Recording. ("TIMER" lights on Multi Function Display.)

Notes

- If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be left on.
- If a power interruption occurs while programming the timer, the timer program(s) may be cancelled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please re-enter the timer programs.

Important notes when using DSS receiver

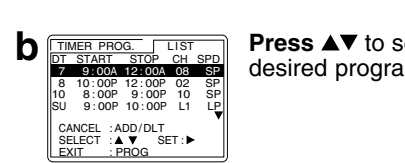
- When recording programs via DSS receiver, DSS receiver must be left on.
- When recording programs via an antenna or cable, DSS receiver must be turned off.

Timer Recording

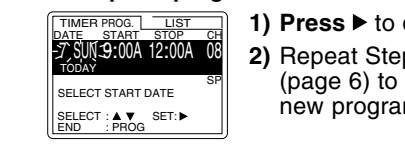
Review, Replace, or Clear Program

(Recording is not in progress)

- 1) Press PROG.
- 2) Press ◀▶ to select LIST.



Press ▲▼ to select desired program.



Press ► to display.

Repeat Step 2 (page 6) to set new programs.

or

Press ADD/DLT.

Press PROG to end the programming.



Press PROG to end the programming.

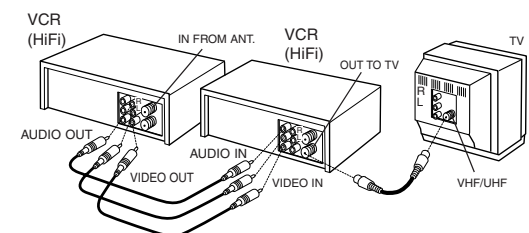
Press ADD/DLT.

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Copying Your Tapes (Dubbing)

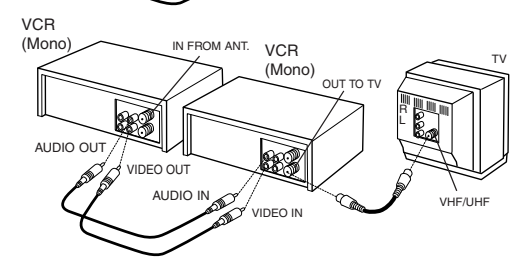
Connection

(Rear connection shown.)



Front of VCR
(Front Audio L/R Video IN jacks are also provided)

For Model PV-V4523S-K only



Front of VCR
(Front Audio/Video IN jacks are also provided)

For Model PV-V4023-K only

- Connect VIDEO OUT jack on Playing VCR to VIDEO IN jack on Recording VCR. To monitor the dubbing, also connect a TV as shown.
- PV-V4523S-K : Connect AUDIO L/R OUT jacks on Playing VCR to AUDIO L/R IN jacks on Recording VCR.
PV-V4023-K : Connect AUDIO OUT jack on Playing VCR to AUDIO IN jack on Recording VCR.

In place of a Playing VCR, you can use other equipment, such as a Camcorder. Simply connect the unit's Audio/Video outputs to the Recording VCR.

Playing (Source) VCR

- Insert pre-recorded tape.

2

- Press PLAY, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode.

- Press PLAY to start dubbing. Playing VCR starts playback.

- Press STOP to stop dubbing.

To Monitor Dubbing on Your TV

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

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

Recording (Editing) VCR

- Insert blank tape with record tab.

Press INPUT* to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video Input (Front). (See "Selecting the Input Mode" below.)

- Press REC, then PAUSE/SLOW immediately to enter REC/PAUSE mode.

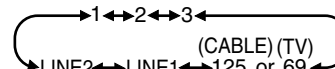
The operation of steps 4 and 5 must be done on both playing and recording VCRs at the same time.

- Press PAUSE/SLOW to start dubbing. Recording VCR starts recording.

- Press STOP to stop dubbing.

Selecting the Input Mode

- Method 1:**
Press INPUT repeatedly. Channel Number ↔ LINE1 ↔ LINE2
- Method 2:**
Press CH ▲ / ▼. Display will change as below.



- "L1" or "L2" lights on Multi-Function Display (about 4 sec.) when LINE1 or LINE2 is selected.
- LINE1: For rear audio/video connection. LINE2: For front audio/video connection.

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

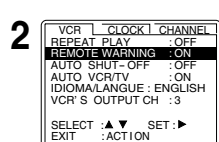
***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Special VCR Features

Remote Warning ON/OFF Feature

If Multi-brand feature is used (pages 2, 3), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV mode.

- Press ACTION to display menu.



- Press ▲▼ to select REMOTE WARNING and press ► to set ON or OFF.
• If "OFF," remote warning will not appear if invalid key is pressed.

- Press ACTION to return to normal screen.

Tape Position Display Feature

To find out the present tape position, Tape position is displayed for VHS-C Cassettes type, tapes under 30 minutes, and some other tapes, but the position is not correct.

- Press TAPE POSITION to detect tape position.



"DETECTING TAPE POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct indication to appear.



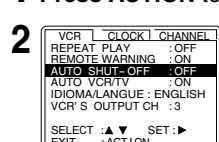
The present tape position indication is displayed.

- Press TAPE POSITION to return to normal screen.

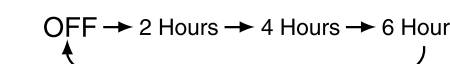
Auto Shut-Off Feature

The power shuts off at a preset time.

- Press ACTION to display menu.



- Press ▲▼ to select AUTO SHUT-OFF. Press ► repeatedly to change shutoff time as shown below.



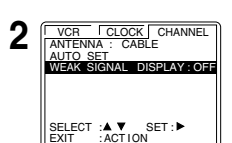
- Press ACTION to return to normal screen.

Note • The shut-off countdown will not function during Play or Record.

Weak Signal Display ON/OFF Feature

When set to "ON," picture is displayed regardless of signal strength.

- Press ACTION to display menu.



- Press ▲▼ to select and display CHANNEL. Press ► to select WEAK SIGNAL DISPLAY, and press ► to set ON or OFF.

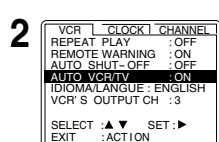
- ON: Picture is displayed even if signal is very weak but quality may be poor.
- OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

- Press ACTION to return to normal screen.

VCR/TV Selector Feature

The VCR/TV selection can be set to auto or manual.

- Press ACTION to display menu.



- Press ▲▼ to select AUTO VCR/TV, and press ► to set ON or OFF.

- OFF(Manual): You select "VCR" or "TV" mode using the VCR/TV button on the unit or remote.
- ON(Auto): "VCR" mode is automatically set when VCR is turned on, or in Play mode.

- Press ACTION to return to normal screen.

Note

- For more on VCR/TV selection, see "Record one station, watch another" and "Select channels on VCR" sections (see p. 5 of Basic Operations book).

VCR Lock Feature

When set to ON, all operations except for timer record and tape eject are prohibited. Useful for households with small children.

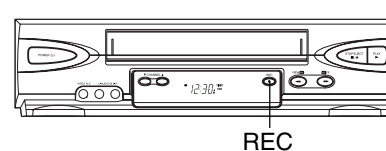


To turn on, hold down REC on the VCR in Stop mode with no tape inserted for 7 sec. (Please ignore the NO CASSETTE warning.)



To turn off, repeat above.

- VCR Lock cancels in 24 hours if clock is set.



On-Screen Displays (OSD)

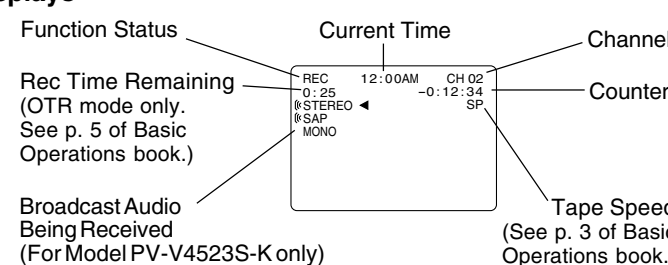
On-Screen Displays (OSD)

Function & Channel Displays

When a function button is pressed, e.g. PLAY, or you change channels, a 5 second display appears.

VCR Status & Clock Displays

To display or remove overlay at right, → press DISPLAY*.



Warning and Instruction Displays

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

OSD	Caution	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set...	See page 6, 7 of Basic Operations book
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set...	See page 6, 7 of Basic Operations book
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab...	See page 3 of Basic Operations book
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted...	See page 5 of Basic Operations book
TO CANCEL TIMER REC PRESS POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)	See page 6, 7 of Basic Operations book
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL	If head cleaning becomes necessary while playing back a tape...	See page 3 of Basic Operations book
END :PLAY		
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode...	See page 10
REMOTE CONTROL IS SET TO TV MODE	If you press an invalid key on the remote while in TV mode...	See pages 2, 3, 10
USE VCR : VCR KEY		

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Before Requesting Service

Check the following points once again if you are having trouble with your VCR. (BO : refers to "Basic Operations" Instruction book.) (AO : refers to "Advanced Operations" Instruction book.)

Power	Correction
No power...	<ul style="list-style-type: none"> 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...	<ul style="list-style-type: none"> Check connections between VCR, external antenna, and TV. Check connections selection. (BO p. 4, AO p. 3) Make sure your antenna system (CABLE or TV) is correctly set. (Channels [BO p. 11]) Make sure cassette record tab is intact. (BO p. 3)
Timer recording cannot be performed...	<ul style="list-style-type: none"> 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. (BO p. 6, 7) Make sure VCR POWER button is pressed off. (BO p. 6, 7) Timer recording may not be performed or continued if a power interruption 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...	<ul style="list-style-type: none"> Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (BO p. 4) Set VCR/TV selector to "VCR." Adjust TRACKING control in either direction. (BO p. 3) Try Head Cleaning. (BO p. 3)
During special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control...	<ul style="list-style-type: none"> Set TV's Vertical Hold Control to MANUAL, then adjust.
VCR cannot be controlled...	<ul style="list-style-type: none"> Make sure VCR power is on. Check Remote batteries. Make sure VCR LOCK is set to off. (AO p. 10) Make sure Timer Record is not in progress.
Remote Control	Correction
VCR cannot be remote controlled...	<ul style="list-style-type: none"> Make sure VCR power is on. Make sure Remote is in VCR mode. Aim Remote Control directly at remote sensor on VCR. (BO p. 10) Avoid any object blocking signal path. Check Remote batteries. (BO p. 3) Make sure VCR LOCK is set to off. (AO p. 10) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons do not respond...	<ul style="list-style-type: none"> Check connections between VCR, external antenna, and TV. Press VCR button for VCR mode. (AO p. 2) Check Remote batteries. (BO p. 3)
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none"> Make sure TV power is on. Make sure TV is set to output of VCR. Check connections between VCR, external antenna, and TV. Set VCR/TV selector to "TV." (BO p. 5, AO p. 10) Make sure proper signal source is selected.
Video cassette cannot be inserted...	<ul style="list-style-type: none"> 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...	<ul style="list-style-type: none"> Confirm Power Plug is fully inserted into an AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none"> Make sure cassette record tab is intact. (BO p. 3)
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none"> To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.

Panasonic



Omnivision VHS

Video Cassette Recorder Operating Instructions (Advanced Operations)

For Basic operations, see the separate "Basic Operations" instruction book.

Models No. PV-V4023-K/PV-V4523S-K



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As an ENERGY STAR® Participant, Panasonic has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.



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

LSQT0643A



Multi-Brand Control Feature

Multi-Brand Control Setup

The Remote Control can be set to control some TV functions.

1 Find your TV Brand Code Number from those shown below.

2 Set up for TV control,
 → hold down **TV** button,
 → enter code with **NUMBER** keys.

3 Confirm code entry,
 → press **POWER** to turn your TV on or off.
 • See table below for controllable functions in each mode.

- Notes**
- Repeat setup after remote battery replacement.
 - Remote will not control every TV made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.

Using Multi-Brand Control

After remote is set up, you can select VCR or TV for the desired function.

Press **VCR** or **TV** on the remote.
 (Table below shows available unit buttons for each mode.)

Unit Mode	VCR	TV
VCR	All	VOL UP/DOWN
TV	VCR/TV, PLAY, STOP, EJECT, DISPLAY, FF, REW, PAUSE/SLOW, REC, SAP/Hi-Fi (PV-V4523S-K only), SPEED, CMZERO, RESET COUNTER, TAPE POSITION	POWER, INPUT, ENTER, NUMBER keys, CH UP/DOWN, VOL UP/DOWN

- Notes**
- Not all functions listed may be controllable.
 - In TV mode, it may be necessary to press ENTER after pressing NUMBER keys for channel selection.

TV Brand Code Numbers

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

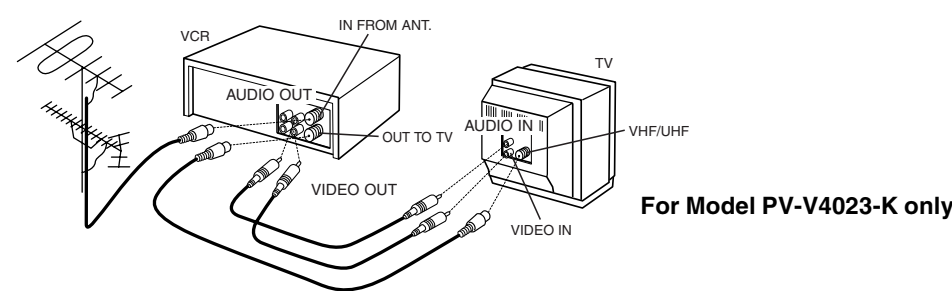
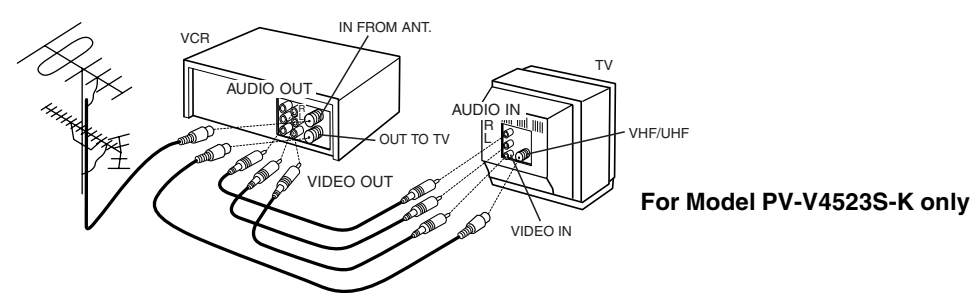
Important Notes

- Some manufacturers use several codes for one brand. If the first code entered fails, try the next one listed.
- Some TV brands require you to turn on the power manually.

Advanced Connections

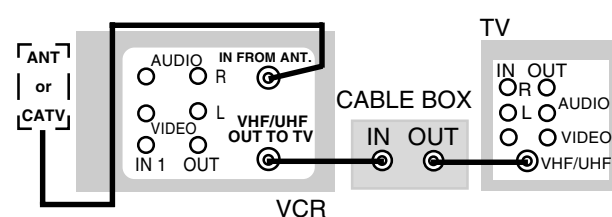
Audio/Video connection

If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive higher quality picture and sound.



- 1 Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.
- 2 PV-V4523S-K : Connect VCR's L/R AUDIO OUT jacks to the TV's L/R AUDIO IN jacks.
 PV-V4023-K : Connect VCR's AUDIO OUT jack to the TV's AUDIO IN jack.
- 3 Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

With a Cable Box (VCR → Cable Box)



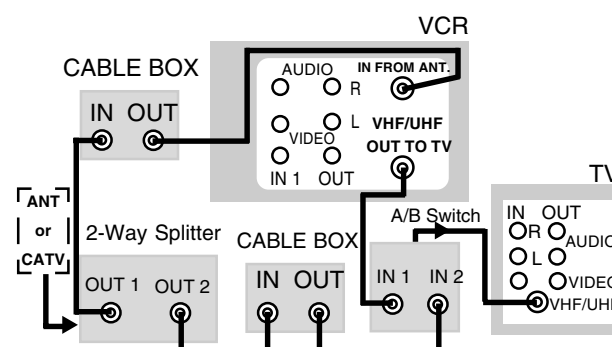
You Can

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

You Cannot

- record scrambled channels.

Connect With Two Cable Boxes



You Can

- 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.

You Cannot

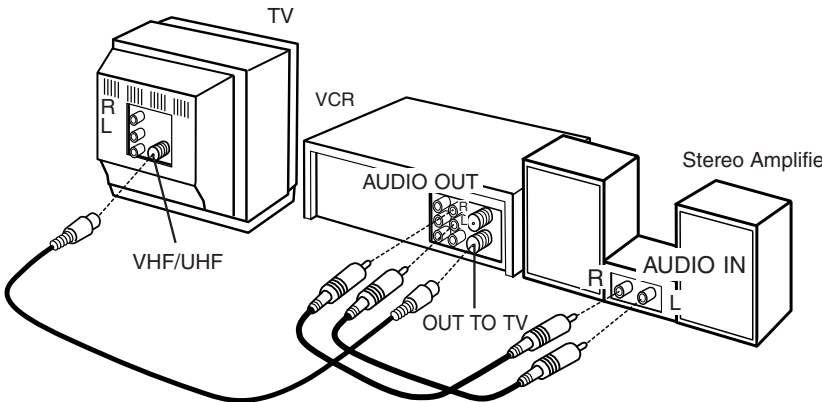
- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

MTS Broadcast

For Model PV-V4523S-K only

Connection

Make the Audio/Video Connection as shown on page 3.
 • You can use a TV connected to Stereo amp and speakers instead of a Stereo TV.



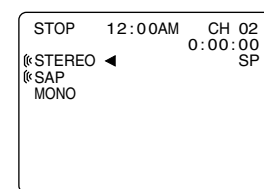
Receivable Broadcast Types

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

To display the broadcast signal being received,
 → press **DISPLAY***.

MTS Stereo and SAP broadcast

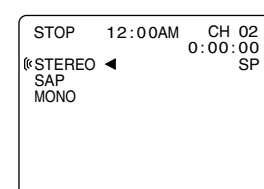
Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select STEREO or SAP audio mode.



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 possible better results.



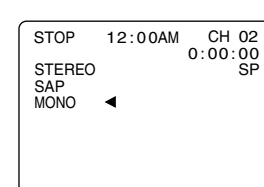
SAP broadcast

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.

VHS Hi-Fi Stereo System

For Model PV-V4523S-K only

Audio Mode for Recording

1 Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)

2 Press SAP/ Hi-Fi repeatedly to select desired mode.
 • Refer to "Receivable Broadcast Types" on page 4.

• Arrow indicates selection.

3 Make a recording.
 See p. 5 of "Basic Operations" Instruction book.

Audio Mode for Playback

1 Start playback.
 See p. 5 of "Basic Operations" Instruction book.

2 Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)

3 Press SAP/ Hi-Fi repeatedly to select desired mode.
 • Select "HIFI(L/R)" or "HIFI(L)" or "HIFI(R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound.

• Arrow indicates selection.

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 4.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Tape Operation

Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

Index Search

1 Press SEARCH* to display SEARCH in Stop or Play mode, and then press **NUMBER** keys to select recording number.

• To calculate number, see below.
Press FF or REW to start search.

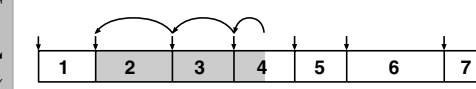
2 Press SEARCH* to display SEARCH in Stop or Play mode, and then press **NUMBER** keys to select recording number.

Play begins at search end. To search forward or back 1 index, press **FF** or **REW** while screen left is displayed (10 sec.).

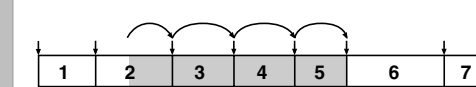
• To cancel, press **STOP** or **PLAY**.

To Calculate Index Number

Example 1:
 To go to rec. 2 from rec. 4, enter 3 and press REW.



Example 2:
 To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: ↓ indicates start points of each recording.

Note

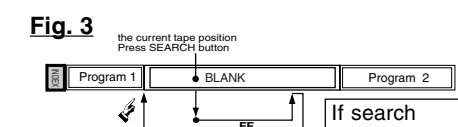
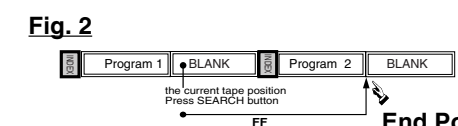
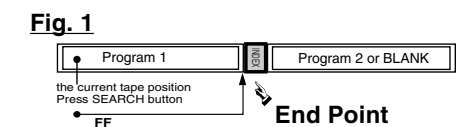
- If Index Search is started very close to an index mark, that index mark may not be counted in the search.

Program End Search

Locates end point of recording for continuity.

1 Press SEARCH twice to display SEARCH in Stop or Play mode.
2 Press FF to start PROGRAM END SEARCH.
 • To cancel, press **STOP** or **PLAY**.

Examples of Program End Search.



Upon locating end point,

- search continues 7 sec. past end point,
- tape rewinds to 10 sec. before end point,
- tape plays to end point and stops.

Notes

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

Tape Operation

Repeat Play

Set to playback a recording over and over.

1 Press ACTION to display menu.

2 Press ▲▼ to select REPEAT PLAY and press **▶** to set ON or OFF.

ON: Play repeats at tape end or if unrecorded portion over 30 sec. is detected.

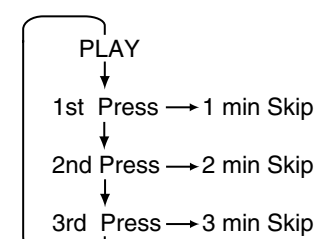
3 Press ACTION to return to normal screen.

Commercial Skip

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

1 Press CM/ZERO in Play mode.

- Press CM/ZERO repeatedly to change skip time as shown below.



• No indication appears.

Zero Search

To quickly return to a specified tape location.

1 Press DISPLAY during play to display Counter.

2 Press RESET COUNTER at desired position to reset to "0:00:00".

3 Continue to record, playback, etc.

4 Press STOP.

5 Press CM/ZERO in Stop mode to start ZERO SEARCH.

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



***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.