# Operating Instructions

# Panasonic VHS Omnivision VHS PV-2905



#### Video Cassette Recorder

#### **FEATURES**

- HQ (High Quality) System
- Digital Quartz Tuning with Auto Set Feature
- On Screen Display Programming
- Special Effects Playback Fast Search
   Double Speed Playback Still Picture
   Slow-Motion
- One Touch Recording
- Unattended (Timer) Recording
- Auto Operation Functions
- Wireless Remote Control

#### **TABLE OF CONTENTS**

TO GET STARTED 1
TO PLAYBACK 2
USING THE VCR/TV SELECTOR 2
DESCRIPTION OF CONTROLS 3
CLOCK ADJUSTMENT 7
CHANNEL MEMORY 8
SPECIAL EFFECTS AND OPERATIONS 9
TO RECORD
ONE TOUCH RECORDING
TIMER RECORDING
HELPFUL HINTS
BEFORE REQUESTING SERVICE
ACCESSORIES Back Cover
SPECIFICATIONS Back Cover

# TO GET STARTED (ACCESSORIES INCLUDED IN THE CARTON)

#### INTRODUCTION

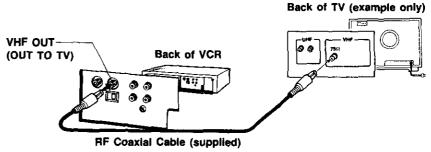
We are pleased to introduce you to one of the most sophisticated entertainment products available today. Shown below are the two steps necessary for playback. To watch TV and record, additional connections are needed; see the separate Connections Guide accompanying this manual. Keep this manual near your VCR for quick reference.

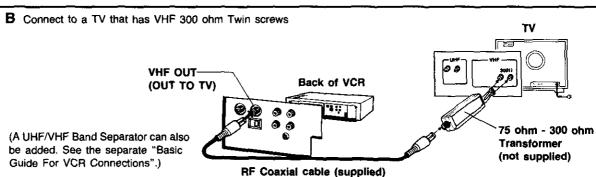
#### ONE TIME SET-UP STEPS

Setting the clock is not actually necessary for playback, but is necessary for all types of timer recording. Please refer to page 7 to set the clock.

#### 1 VCR TO TV CONNECTION

A Connect to a TV that has a VHF 75 ohm Post





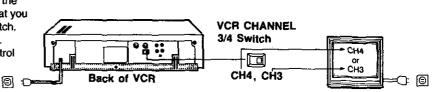
#### 2 SELECT VCR CHANNEL (CHANNEL 3 OR 4)

Your VCR translates video and audio signals from the VCR into standard signals that your TV can receive on CH3 or CH4. This signal will be broadcast to the TV through the RF Coaxial Cable.

You decide which TV channel to use by selecting either channel 3 or 4 with the CHANNEL 3/4 Switch on the back of the VCR. The CHANNEL 3/4 Switch should be set to the channel that is not normally occupied by a TV broadcast in your area, to avoid local interference.

#### TO WATCH CHANNEL SELECTED AT THE VCR

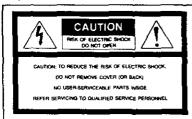
First connect the VCR and TV power plugs to AC outlets. Then tune your TV to the VCR CHANNEL, the same channel that you selected with the CHANNEL 3/4 Switch. Select channels using the CHANNEL UP/DOWN Keys or the Remote Control NUMERIC Keys (see page 3 or 4).



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

This video recorder, equipped with the HQ System, is compatible with existing VHS equipment.

Only use those tapes with the VHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.







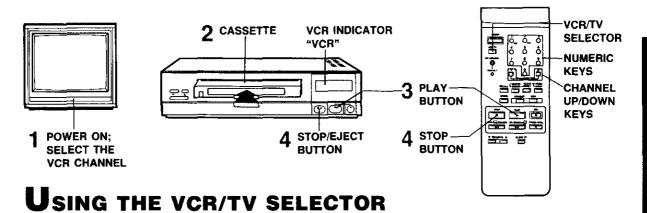
This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

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.

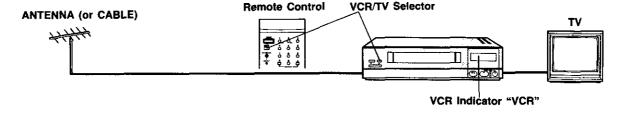
## TO PLAYBACK

Be sure the PREPARATIONS on page 1 have been completed before proceeding to step 1 below.

AT THE TV	AT THE VCR	START PLAYBACK	STOP PLAYBACK
Turn the TV ON and select its VCR channel.  The TV's VCR Channel is either channel 3 or 4.	2 Insert a cassette.  The Power will come ON automatically.  If the Record Tab (page 16) is removed, playback will start automatically. (In this case skip step 3.)  If a cassette is already in the VCR, just press the POWER Button ON.	The VCR Indicator will light. This automatically sets the VCR mode (see below). For Special Effects see page 9.	Press the STOP Button.  ■ Press the EJECT Button to remove the cassette.



After you have a cable system or antenna connected to your VCR and the "TO GET STARTED" connections on page 1 are complete, you can begin to watch TV broadcast channels using your VCR or TV tuner.



#### TO SELECT CHANNELS AT THE VCR FOR VIEWING OR RECORDING

It is necessary to place the VCR in the "VCR" mode. Be sure that the TV is tuned to the same channel which was selected for the VCR channel (CH3 or 4) above.

- 1) WHEN YOU TURN ON YOUR VCR
  The "VCR" mode is automatically selected, just turn the TV power ON and select the VCR CHANNEL.
- 2) WHEN THE VCR POWER IS ALREADY ON
- The VCR Indicator should show on the front panel.

  If the VCR Indicator is not showing, select the "VCR" mode by pressing the VCR/TV SELECTOR Button once.

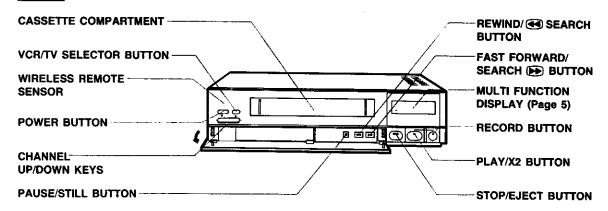
Select channels using the VCR REMOTE CONTROL CHANNEL UP/DOWN Keys or the NUMERIC Keys.

#### TO SELECT CHANNELS AT THE TV FOR VIEWING

- In "TV" mode no "VCR" indicator shows on the front panel.
- WHEN THE VCR IS TURNED OFF
   The "TV" mode is automatically selected, just turn the TV power ON.
- 2) WHEN THE VCR POWER IS ALREADY ON
  If the VCR Indicator is showing and the TV is already ON select the "TV" mode by pressing the VCR/TV SELECTOR
  Button once. The VCR Indicator should NOT show on the front panel.

Select channels using the TV channel controls.

#### FRONT



#### **POWER BUTTON**

- To turn the VCR on and off.
- To set the VCR for unattended recordings after timer programming have been completed.

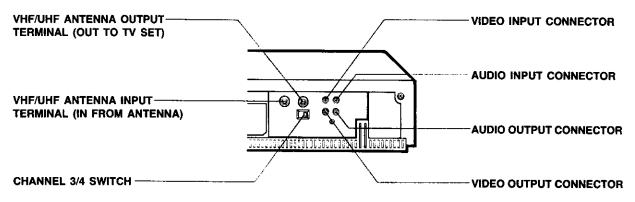
#### PLAY/X2 BUTTON

To play back a tape. In SLP playback, tap this button once more for a rapid search at twice normal speed.

#### STOP/EJECT BUTTON

To stop the tape. To remove a cassette in the stop mode.

#### REAR



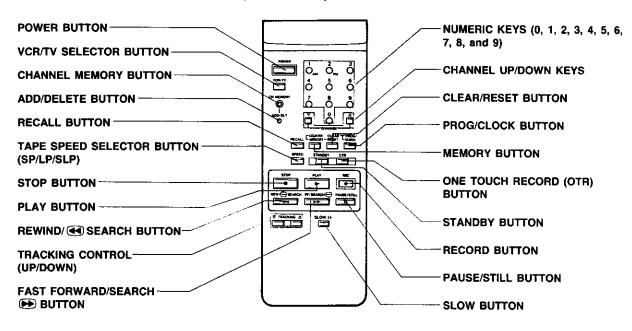
#### **CHANNEL 3/4 SWITCH**

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

See "TO GET STARTED" on page 1.

#### WIRELESS REMOTE CONTROL

Various VCR function controls are conveniently available with your Wireless Remote Control.



#### VCR/TV SELECTOR BUTTON

Selects the signal source that your TV receives.

VCR position: To view playback or to

monitor video recordings. "VCR" appears on the Multi Function Display.

TV position: To watch TV or to view

one program while recording a different program. When this is set to TV, there is no indication on the Multi Function Display.

#### CHANNEL MEMORY BUTTON

For CHANNEL MEMORY programming, press this button to use the AUTO SET feature.

#### **ADD/DELETE BUTTON**

Used to add or delete a selected CHANNEL.

#### **RECALL BUTTON**

Press this button to display or clear the tape counter, date, time, function and channel number.

# TAPE SPEED SELECTOR (SP/LP/SLP) BUTTON

Set this selector for the desired recording speed.

#### **REWIND/SEARCH BUTTON**

To rewind tapes. Also, during playback press this button to view the picture in rapid reverse.

#### TRACKING CONTROL

Use this control during playback or double speed playback if the image is partially obscured by bands of noise.

#### FAST FORWARD/SEARCH BUTTON

To rapidly advance the tape. Also, during playback press this button to do rapid forward visual search.

### CLEAR/RESET BUTTON CLEAR BUTTON

Press this button to clear the settings for the displayed program contents. While setting the clock or a program, each press of this button starts the digit to the left flashing for correction.

#### RESET BUTTON

Resets the Tape Counter when it is displayed.

#### PROG/CLOCK BUTTON

Used for setting the clock, programming the timer and displaying a calendar.

#### **MEMORY BUTTON**

Turns the Memory Stop feature on and off.

# ONE TOUCH RECORD (OTR) BUTTON

Select the channel and press the ONE TOUCH RECORD Button to start recording immediately for 30 minutes to 4 hours, or until the tape ends. In any case, power shut off is automatic.

#### STANDBY BUTTON

Used along with the OTR Button to set delayed (Standby) OTR's.

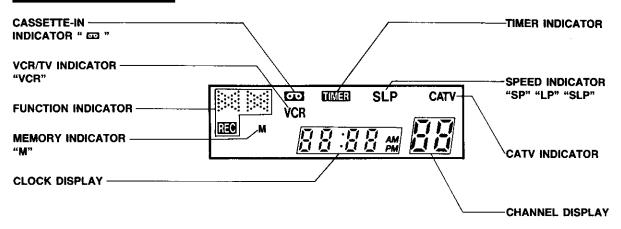
#### PAUSE/STILL BUTTON

To temporarily stop the tape during recording or to view a still picture during playback.

#### SLOW BUTTON

Press the SLOW Button during playback for slow motion on tapes recorded in SLP speed.

#### **MULTI FUNCTION DISPLAY**



#### CASSETTE-IN INDICATOR " 523 "

The three variations in this indication show the following conditions.

No " . displayed: There is no cassette in the unit. " . displayed: There is a cassette in the unit and some interval to the end of the tape.

Flashing " 

" display: The Automatic Rewind took place at the end of the tape during playback, recording or fast forward. The indicator continues flashing until the next mode is selected.

Also flashes if you attempt any recording when the cassette record tab is missing.

#### VCR/TV INDICATOR "VCR"

Appears when the VCR/TV Selector is set to VCR.

#### FUNCTION INDICATOR "

Shows the operation mode of VCR (PLAY, DOUBLE SPEED PLAY, REW, REC, FF, PAUSE, STILL, SEARCH, SLOW etc.)

#### **MEMORY INDICATOR "M"**

Indicates Memory control in use.

#### **CLOCK DISPLAY**

Displays the current time.

#### TIMER INDICATOR " IIMER "

Indicates the VCR is set for unattended recording.

#### SPEED INDICATOR "SP" "LP" "SLP"

Shows the tape speed during recording and playback.

#### **CATY INDICATOR**

CATV indicates ANTENNA SYSTEM is set to the Cable TV mode.

#### CHANNEL DISPLAY " 88 "

The CHANNEL number selected is displayed.

An "L" will appear to let you know you have selected a Line input.

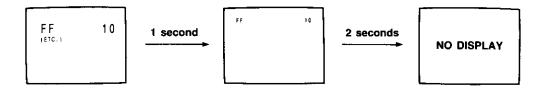
#### **FUNCTION INDICATOR SYMBOLS**

The following symbols will appear on the Multi Function Display to indicate the current mode or operation of the VCR. Some of these modes will also be momentarily displayed on the TV screen when you press the Operation Buttons (see page 6).

PLAY, DOUBLE SPEED PLAY	REW, REW SEARCH	FF, FF SEARCH	REC
>			REG
REC PAUSE	STILL	SLOW	EJECT
REG			

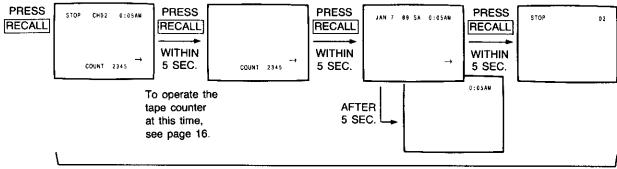
#### OSD INDICATIONS

Whenever you turn on the VCR with the TV on, when a function button (STOP, FF, etc.) is pressed, or when you change channels, a 3 second OSD appears. The function name and the channel number (if tuned) are displayed as a large overlay for 1 second, then again for 2 seconds in a smaller overlay.



#### VCR STATUS DISPLAY

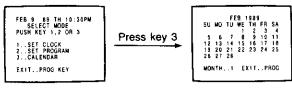
When the RECALL Button is pressed the sequence of overlays shown below will be displayed with what you have been viewing, as long as the arrow appears in the lower right (for about the first 5 seconds). After the arrow disappears, the overlay you have selected will remain on the screen until it is removed by the next press of the RECALL Button.



Press the RECALL Button while the arrow is displayed to progress to the next overlay.

#### CALENDAR INDICATOR

To see the calendar for this month and next month, press the PROG Button (on the Remote Control) while you are watching TV. The MENU screen will appear; press key 3. The calendar for the current month appears. Press key 1 to change between this month and the next. Press the PROG Button to return to the screen.



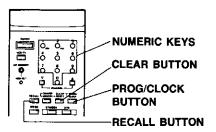
MENU screen

#### BLANK TAPE INDICATION

If a blank section of the tape is encountered in the play mode or the channel you select has no broadcast, the TV screen will change to a solid blue field.

The screen will remain blue until a recorded signal is again detected or an active channel is selected.

#### REMOTE CONTROL



Accurate clock time is a must for all types of timer recording. Your VCR will accurately maintain its calendar up to Dec. 31, 2007, 11:59 PM once you have set the present day and time.

#### TO SET THE CLOCK

When the VCR and TV are turned on for the first time, the clock set guide will appear on the TV screen.

If the guide disappears, press the PROG/CLOCK Button to recall it. Be sure that the VCR/TV Selector is set to the VCR position.

SELECT THE CLOCK SET MODE	SET THE MONTH & DAY	SET THE YEAR	SET THE HOUR & MINUTE AND AM OR PM	START THE CLOCK
1 Press the PROG/ CLOCK Button.  The Clock Set Guide shown in step 2 appears.	2 Enter two digits for the month, and two digits for the day.	3 Enter two digits for the year.	4 Enter two digits for the hour, two digits for the minute(s), and "1" for AM or "2" for PM.	5 Press the PROG/ CLOCK Button. Clock starts. The TV screen will
When setting the clock for the first time, entries that don't match the calendar will cause a	For example, for Feb 9, press (1) (2) (1) (9) .	For example, for 1989, press (8) (9).	For example, for 10:30 PM, press ① ② ③ ② ② .	return to the channel selected at the VCR.
"?" to appear.	SET MONTH WITH NUMERIC KEY	02 05212: SET YEAR WITH NUMERIC KEY	02 08 89 1H2	
	EXIT. PAGG KEY	EXITPROG KEY	EXHTPROG KEY	
	SET YEAR WITH NUMERIC KEY	02 08 89 TH	FEB 9 89 TH 10:30PM  PUSH PROG KEY AT EXACT TIME	

- When in the clock adjustment mode, be sure to enter the first digit within 30 seconds, or the VCR will automatically leave this mode.
- Be sure to enter "0" before single-digit numbers.

#### TO MAKE CORRECTIONS IN ON-SCREEN ENTRIES

To make corrections after entering a number, press the CLEAR Button to move the flashing indication one space left. Enter the correct number. The flashing indicator will then move one space right.

#### TO DISPLAY THE DATE AND TIME



Press the RECALL Button three times to show the date and time overlay on the TV screen. See "VCR STATUS DISPLAY" on page 6 for details.

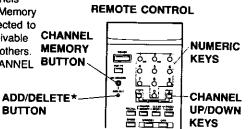
#### TO RESET THE CLOCK



If you want to reset the clock at some later time, press the PROG/CLOCK Button while you are watching TV. The MENU screen shown at left will appear; press key ① and follow the clock set guide to re-enter the new date and time.

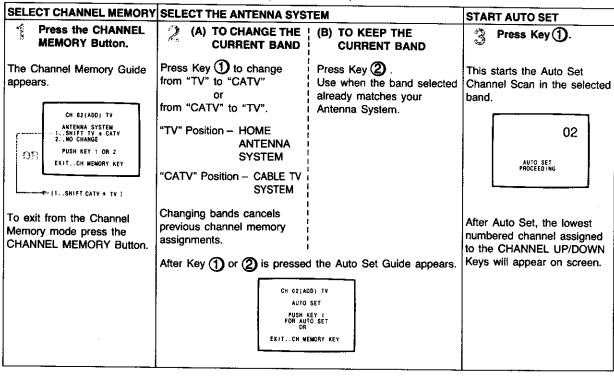
# CHANNEL MEMORY

The CHANNEL UP/DOWN Keys may be set to stop only on the available channels in your area assigned to them from the 155 Channel Memory. In Channel Memory mode you can select "CATV" to receive Cable channels or leave "TV" selected to receive Broadcast channels. The AUTO SET feature assigns channels receivable from either band in your area to the CHANNEL UP/DOWN Keys and skips the others. With the ADD/DELETE Button you can add or delete any channel from the CHANNEL UP/DOWN Keys operation in either band.

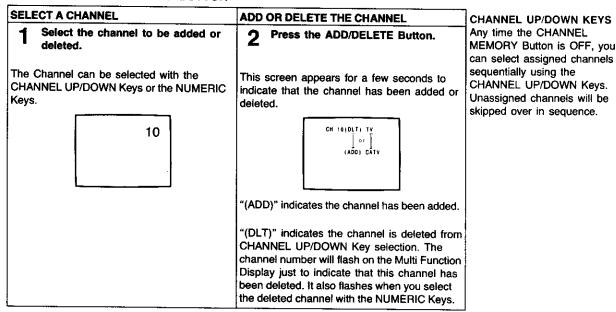


#### A AUTOMATIC SETTING

PREPARATIONS on page 1 and basic installation steps must be completed first.



#### B USING THE ADD/DELETE BUTTON



NOTE: After adding a channel, confirm its status by selecting it with the CHANNEL UP/DOWN Keys. After deleting a channel, the CHANNEL UP/DOWN Keys should skip it. To select a channel that has been deleted, use the NUMERIC Keys.

Use a pen point to press the ADD/DELETE Button.

After your VCR is connected to your TV (see page 1, To Get Started) and you know how to play back a tape (see page 2, Playback), you are ready to enjoy the special effects on this page.

#### SPECIAL EFFECTS IN PLAYBACK MODE (BEST IN SLP SPEED: SOUND IS MUTED)

#### TO VIEW A SLOW MOTION PICTURE TO RAPIDLY LOCATE A PARTICULAR TO VIEW A STILL PICTURE (DURING PLAYBACK) **SEGMENT** ■ Press the SEARCH Button. ■ Press the PAUSE/STILL Button. During playback, press the SLOW Button on the Remote Control. A freeze frame picture of the playback This starts a rapid forward or reverse image appears. visual search. ■ Press the PLAY Button to release ■ Press the SEARCH Button again or ■ Press the button once more to release the still and continue playback. SLOW. the PLAY Button to return to playback. SEARCH SPEED SLP Search is about 21 times normal speed

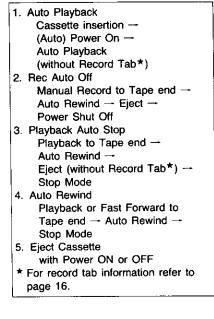
# TO VIEW A DOUBLE SPEED PLAYBACK PICTURE

During playback, tap the PLAY Button again on the VCR.

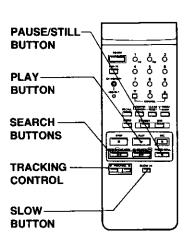


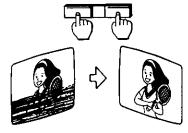
Press the button once more to release the tape from a double speed playback.

#### **AUTO OPERATION FUNCTIONS**



#### TRACKING CONTROL

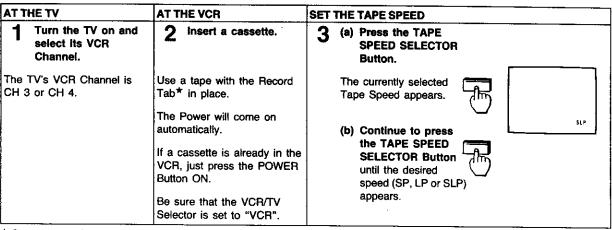


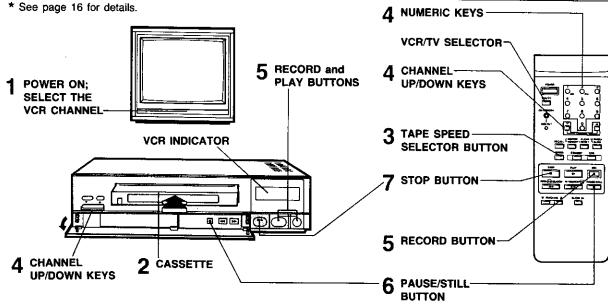


A certain amount of "noise" may appear in the picture when a VHS video tape recorded on one VCR is played back on a different one. You may adjust the TRACKING CONTROL (UP/DOWN) on your Remote Control to minimize this noise in normal playback, double speed playback and slow motion playback. The normal position is automatically set when a cassette tape is inserted.

## TO RECORD

PREPARATIONS on page 1, steps 1 and 2, must be complete and an antenna (or cable) system must be connected to the VCR. (See the Basic Guide For VCR Connections.)





CHOOSE A PROGRAM	START RECORDING	PAUSE RECORDING	STOP RECORDING
4 Select a channel.	Hold the REC Button in and press the PLAY Button on VCR.  Recording starts.  - OR -	6 Press the PAUSE/ STILL Button.	7 Press the STOP Button.
Use the CHANNEL UP/DOWN Keys or NUMERIC Keys.	Using the remote control, press the REC Button only to start recording.	The recording stops temporarily.  Press this button again to release pause.	This stops the recording completely.

#### TO WATCH ANOTHER TV PROGRAM WHILE RECORDING

You can record a channel from the VCR Tuner and watch channels from the TV Tuner.

1 Set the VCR/TV SELECTOR to TV.	2 Select the other CHANNEL to be viewed on the TV.
The "VCR" Indicator and the TV broadcast being recorded will disappear.	Use the TV channel controls.
The program colocted with the TV channel controls will appear	

The program selected with the TV channel controls will appear on the TV screen, and the one selected with the VCR channel controls will be recorded on the tape.

# 11 ONE TOUCH RECORDING

OTR is a very easy and convenient way to immediately start recording a TV program you happen to be watching (Instant OTR), or set up a delayed start time recording (STANDBY OTR), without programming the TIMER. When either type of OTR is complete, the VCR automatically shuts off.

# REMOTE CONTROL NUMERIC KEYS O O O O CHANNEL UP/DOWN KEYS STANDBY BUTTON OTR BUTTON

#### **OTR Preparations**

#### MAKE SURE THAT ....

- PREPARATIONS on page 1 have been completely done.
- the clock is set to the correct time.
- the desired tape speed (SP, LP or SLP) is selected.
- the record tab is not missing on the cassette.
- the tape is long enough to record the programs.

#### A. INSTANT OTR

Recording starts instantly and the VCR will shut off when the recording is complete. You can set the recording length in 30 minute periods up to 4 hours total, or to the end of the tape.

#### Occasions for Use:

- · For normal recording of TV programs.
- When an unexpected guest or call is received.
- When you are unexpectedly called away from home.

If each succeeding press of the OTR Button does not follow within 5 seconds, the current TV broadcast channel will return to the screen.

#### A. INSTANT OTR

CHOOSE A TV PROGRAM	SET A RECORDING LENGTH	
1 Select a channel.	2 Press the OTR Button.	
Use the CHANNEL UP/DOWN Keys or the NUMERIC Keys.	At the first press, this screen appears.  OTR CH 10 HOW+ (0:00)	Continue to press the OTR Button until the desired length appears. Recording will start when 0:30 is displayed.  —OTR LENGTH DISPLAY  Each press of the OTR Button adds 30 minutes. 0:00 → 0:30 → 1:00 → 4:00 → END  Selecting "END" means recording will continue to the end of the tape.

#### TO CHANGE THE RECORDING LENGTH

- Press the OTR Button twice.
   The OTR Length Display will change to 0:00.
- Continue to press the button until the desired length appears.

The VCR will record for the new length you have entered.

#### TO CANCEL AN OTR

1. Press the OTR Button twice.



The screen at left will appear.
About 5 seconds later, the OTR will stop and the VCR will shut off.

#### NOTE:

An INSTANT OTR can be initiated at the VCR by holding down the RECORD Button and pressing the CHANNEL UP Button. Continue pressing the CHANNEL UP Button until the desired time is obtained.

#### -B. STANDBY OTR ----

This is an OTR which is set to start any time up to 11:30 pm of the following day. The recording can start on the hour or half hour.

#### Occasions for use:

 When a program you want to watch is going to be broadcast while you are asleep, out, or otherwise engaged.

#### In addition:

If you have started a recording using the RECORD Button (page 10), you can still use the OTR Button to select or extend the recording length.

The VCR will shut off automatically when the recording is finished, making it unnecessary to use the STOP Button.

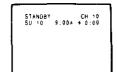
#### B. STANDBY OTR

CHOOSE A TV PROGRAM	SELECT A START TIME		SELECT A RECORDING LENGTH
1 Select a channel.	2 Press the STANDBY B	3 Set the recording length with the OTR Button.	
Use the CHANNEL UP/DOWN Keys or the NUMERIC Keys.	Press the STANDBY Button once to display the screen below.	Continue to press this button until the desired time appears.	Press this button until the recording length you want is displayed.
	DATE OTR	Go to the next step within 5 seconds.  START TIME DISPLAY Each press advances the time to the next hour or half-hour from the current time indicated, up to 11:30 PM of the next day.	With a Standby OTR set, you can watch playback, or change TV channels to watch another program.  The VCR will automatically switch back to the Standby OTR channel to be recorded when the Standby OTR start time comes up.  Any tape in the VCR with a record tab will be recorded on when the OTR start time is reached.

#### TO CANCEL A STANDBY OTR

You can cancel a Standby OTR after one has been set, or is in progress.

1. Press the OTR Button twice.



The display at left will appear. About 5 seconds later, the Standby OTR will be canceled (when this stops a recording the VCR will shut off).

#### NOTE:

- If the preset time for a Timer Recording comes up during a One Touch Recording, the One Touch Recording will take priority.
- A STANDBY OTR can be initiated at the VCR by holding down the RECORD Button and pressing the CHANNEL DOWN Button. Continue pressing the CHANNEL DOWN Button until the desired time is obtained.

The recording length is set by holding down the RECORD Button and pressing the CHANNEL UP Button repeatedly.

# 13 TIMER RECORDING

The TIMER feature lets you set the VCR with the REMOTE CONTROL to do unattended recording(s). For each program you set, the VCR will turn itself on at the scheduled time, do the recording, and turn off automatically. The types of Timer Recordings you can do are described in the box below. Instructions for each step appear on the TV screen after you select the program mode.

#### YOU CAN PROGRAM THE TIMER TO:--

- Record a program on any day you choose up to one month away (One Time recording).
- Record once a week at the same time, length and day of each week (Weekly recording).
- Record everyday at the same time and length (Daily recording).

# NUMERIC KEYS CLEAR BUTTON

PROG BUTTON

**REMOTE CONTROL** 

#### MAKE SURE THAT .....

- PREPARATIONS on page 1 have been completed.
- the VCR/TV Selector is set to "VCR".
- the clock is set to the correct time.
- the desired tape speed (SP, LP or SLP) is selected.
- the record tab is not missing on the cassette.
- the tape is long enough to record the programs.

Enter program selections within 30 seconds of each other or the display will return to the menu screen.

Follow the Program Guide on the TV screen. Use the Remote Control Buttons and NUMERIC Keys.

SELECT THE MENU SCREEN	SELECT THE PROGRAM MODE	SELECT THE PROGRAM NUMBER TO BE SET	SET THE REC-ON DAY	SET THE REC-ON TIME
1 Press the PROG Button.  The screen shown in step 2 will appear.	2 Press Key ②.  Use the NUMERIC Keys to make the selections for steps 2-8.	3 Select Program Number 1 - 4.  If all program numbers are full, the program on the number you choose will be changed.	ONE TIME RECORDING  Enter two digits for the day of the month. If today is JAN 8th, to make a recording on Feb. 3rd press (1) (3).	Enter two digits for the hour, two digits for the minute, and "1" for AM or "2" for PM.  For example, for 9:30PM press  9 3 0 2 HOUR MIN.
	JAN 8 89 SU 8:05AM SELECT MODE PUSH KEY 1,2 OR 3  1SET CLOCK 2SET PROGRAM 3CALENDAR EXITPROG KEY  (MENU screen)	SELECT PROG NO)23(-	P ON + OFF CH  JANDER SU  SET REC-ON DAY DR SELECT DRIVEL WEEKLY5 EXITPROG KEY  FOR DAILY AND WEEL BELOW	REC-ON TIME  P ON + OFF CH  SET REC-ON TIME  EXIT. PROG KEY  KLY RECORDINGS SEE

#### DAILY RECORDING

With the REC-ON DAY flashing press Key 4.

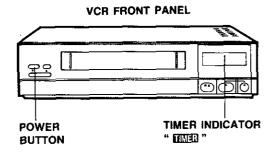
# P ON + OFF CH SEYERYDAY SET REC-ON TIME EXIT...PROG KEY

#### WEEKLY RECORDING

With the REC-ON DAY flashing press Key (5), then press the number for the day. For Sunday press Key (1), for Monday Key (2), for Tuesday Key (3), and so on.







#### TO MAKE CORRECTIONS IN ON-SCREEN ENTRIES -

To make corrections after entering a number, press the CLEAR Button to move the flashing indication one space to the left. Enter the correct number.

The flashing indicator will then move one space to the right.

NOTE: • You can use OTR along with Timer Recording but be sure to check your recording times carefully 
— Timer Recording is preempted while the VCR 
Power is ON or during either OTR or Standby OTR 
recording.

To use Timer Recording, be sure to turn the Power OFF after a Tape Rewind, Playback or other operation or after you set a Standby OTR.

SET THE REC-OFF TIME SET THE REC-ON CHANNEL		SET THE NEXT PROGRAM OR RETURN TO WATCHING TV	SET THE TIMER	
6 Enter two digits for the hour, two digits for the minute(s), and "1" for AM or "2" for	7 Enter two digits for the channel.	Press a NUMERIC Key to select the next program.	9 Press the POWER Button OFF.	
PM.		Repeat steps 4-7 or press the PROG Button to exit from the program mode.	This sets the Timer ON. TIMER Indicator " TIMER " appears.	
For example, for 10:00PM press ① ② ① ② ② · HOUR MIN.	For example, for Channel 10 press ① ① .	If you want to play back or watch TV before the Timer Recording starts, use the VCR controls.	The TV controls can be used to select channels for viewing.	
REC-OFF TIME	CHANNEL	Then proceed to Step 9.		
P ON → OFF CH  1 FEB 03 EP 09:30P → 05:30P SET REC-OFF TIME	P ON → OFF CH  1	1 3 9:30F10:00P 10 2		
EXIT. PROG KEY	EATT. FROM NET			

#### AFTER THE TIMER RECORDING HAS TAKEN PLACE

■ Press the POWER Button to ON to return your VCR to normal operation.

#### NOTE:

• If the record tab is missing, tape will be ejected and the CASSETTE-IN Indicator " 🖼 " and " 📶 " will flash to alert you.

# 15 Timer recording (continued)

#### TO CHECK OR RE-ENTER TIMER PROGRAMS

- A) When a Timer Recording has been set, but is not yet in progress. (VCR power is OFF, TIMER Indicator is ON.)
  - 1. Press the POWER ON to release the Timer Set mode.
  - Follow steps 1 3 on page 13.
     In step 3, check the program contents for each program number. Make corrections and continue with steps 4 to 8.
  - 3. After you are sure that the programs in step 8 are all set correctly, press the PROG Button to return to watching TV.
  - 4. Press the POWER Button OFF to set the TIMER mode ON.

#### B) When a Timer Recording is in progress.

- 1. Set the VCR/TV Selector to "VCR".
- 2. Press the PROG Button. The screen at right will appear.

All programs can be checked at this stage.

The display will disappear after about 30 seconds.

To immediately return to the program being recorded, press the PROG Button.



All currently set programs will be shown. The program in progress will be flashing.

#### TO CLEAR PROGRAMS: after programming is complete and the POWER is still ON

- Follow steps 1 3 on page 13.
   In step 3, enter the program number you wish to clear.
- 2. Press the CLEAR Button. The screen at right will appear for a few seconds.
- To enter a replacement program, follow the program guide from the "SET REC-ON DAY" instructions on page 13.

# P ON → OFF CH 1 NONE --:-- → --:-...PROG 1 CLEARED EXIT...PROG KEY

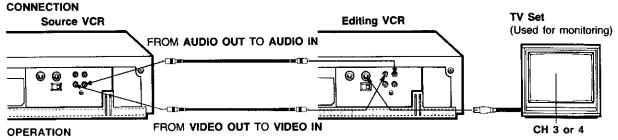
#### TO STOP A TIMER RECORDING IN PROGRESS

- 1. Press the POWER Button, then press the STOP Button within 10 seconds.
- Press the POWER Button again to turn the VCR OFF.This erases the program in progress from the timer's memory, and cancels today's recording only of a DAILY or WEEKLY series. Future DAILY and WEEKLY recordings will be performed as programmed.

## **H**ELPFUL HINTS

#### A RE-RECORDING (TAPE DUPLICATION)

It is becoming more popular for friends to exchange and/or copy some of their favorite camera recordings. Such dubbing from one recorder to another is simple and can be done as described below.



AT THE SOURCE VCR	AT THE EDITING VCR	PLAY BACK THE TAPE	RECORD (COPY) THE TAPE
Insert a pre-recorded tape.	2 insert a blank tape.	Press the PLAY Button on the source VCR.	Press the RECORD and PLAY Buttons together on the editing VCR.

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

NOTE: Be sure the buttons in steps 3 and 4 are pressed simultaneously to avoid missing any of the recording.

#### TO MONITOR THE RE-RECORDING PROCESS ON YOUR TV

- Turn TV ON and select its VCR channel (either CH 3 or CH 4).
- Set the VCR/TV Selector on the editing VCR to "VCR".

#### B TAPE COUNTER CONTROL

If you reset the Tape Counter when the tape is fully rewound you can make an index of tape locations. Then you can use the Tape Counter reading to find a tape location, and use the Memory function to return to that location for a repeat playback. Be sure the Tape Counter overlay is displayed when you use the Tape Counter. To remove an overlay, press the RECALL Button again. (See "VCR STATUS DISPLAY" on page 6 for more information.)

		RESET THE TAPE COUNTER			SELECT THE MEMORY FUNCTION		START THE MEMORY FUNCTION	
Press the RECALL Button once or twice.		2	Press the RES Button.	SET	Press the MEMORY Button.		4	Press the REWIND or FAST FORWARD Button (in STOP mode).
	ppears on the TV screen. whatever point you choose on or		Select MEMORY during any operation with the Tape Counter Overlay showing.		auto	The tape will stop automatically wherever "0000" was set.		
STOP CHO2	B:OSAM		STOP CH02 6:05/	N.W.		STOP CHO2 8:05AM		
COUNT 23	45		COUNT GOOD			ваас уномзи		

#### C TYPES OF VIDEO CASSETTE

Use types with the WHS mark in this unit.

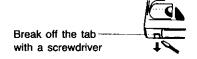
	Maximum Record/Playback Time		
Tape Speed Selector Position	T160	T120	T60
SP (Standard Play)	2 Hours 40 Minutes	2 Hours	1 Hour
LP (Long Play)	5 Hours 20 Minutes	4 Hours	2 Hours
SLP (Super Long Play)	8 Hours	6 Hours	3 Hours

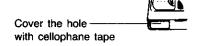
#### D ERASE PROTECTION

Cassettes have a Record Tab to ensure that recordings are not accidentally erased.

• To prevent accidental erasure

• To record again





# 17 HELPFUL HINTS (CONTINUED)

#### E NOTES ON OPERATIONS

#### TO GET STARTED

- With cable connections, numbers selected to receive specific channels may differ from those for antenna connections. Refer
  to the separate Basic Guide for VCR Connections (or your cable service information).
- If the reception on all VHF channels is unsatisfactory you may need to re-tune your TV set.

#### **CLOCK ADJUSTMENT**

- Enter the first digit to set the month within 30 seconds of the appearance of the clock set guide. Otherwise, the program
  you were watching will return to the screen. If this happens, press the PROG/CLOCK Button and start again.
- The letters for day of the week will automatically appear when you have entered both digits for the year.
- If the day digit entered does not match the calendar, it will advance to the first day of the next month (for example, "FEB 29 89" will advance to "MAR 01 89").
- If you press the PROG/CLOCK Button while the clock set guide "-- -- -- appears, the TV screen will return to the program
  you were watching.

#### **CHANNEL MEMORY**

THE DAME

#### **CHANNEL CHART**

	TV BAND		
L	SELECTED CHANNEL INDICATION	CHANNEL BAND DESIGNATIONS	CHANNEL RECEIVED OFF THE AIR
	02 ~ 13	VHF	2 ~ 13
L	14 ~ 69	UHF	14 ~ 69

CATV BAND	٦		
SELECTED CHANNEL INDICATION	CHANNEL BAND DESIGNATIONS	CHANNEL RECEIVED OFF THE AIR	
02 ~ 13	BROADCAST VHF	2 ~ 13	
14 ~ 36	CATV MID/SUPER BANDS	A~W	
37 ~ 64	CATV HYPER BAND	AA ~ EEE	
95 ~ 99	CATV LOW BAND	A-5 ~ A-1	
01	SPECIAL CATV CHANNEL	5A (between 4 and 5)	
65 ~ 94	ULTRA BAND	65 ~ 94	

#### SPECIAL EFFECTS PLAYBACK

- · During search playback, horizontal noise bars will appear on the TV screen.
- After the VCR is in the pause or slow mode for 5 minutes it will stop automatically for tape and video head protection.
- In search, still or slow motion playback, some amount of noise may appear for tapes recorded in SLP mode. The picture
  may be completely snowy in search, still or slow motion mode for tapes recorded in SP or LP speed.

#### TO RECORD

- With manual recordings, if the tape end is reached during recording, the VCR automatically rewinds and ejects the tape and then shuts itself OFF.
- It is possible to change the Tape Speed Selection while you are actually recording but there will be a momentary distortion when the tape is played back over the point where the tape speed change occurred.
- · After the VCR has been in pause for 5 minutes it will stop automatically for tape and video head protection.

#### ONE TOUCH RECORDING

- During a One Touch Recording, press the OTR Button once to see an overlay with the remaining recording time.
- If the record tab is missing on the cassette, it will be ejected when you press the OTR or STANDBY Button.
- Once the VCR has been programmed for a Standby OTR, you will be unable to program additional timer recordings. You
  will note when accessing the program mode, "STANDBY SET" will appear at the bottom of the numbered programs indicating
  a Standby OTR has been programmed.

#### TIMER RECORDING

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

#### **RE-RECORDING**

 Audio/Video input connections take priority over Antenna signals. Remember to remove the A/V inputs to resume TV reception/ recording capability.

# Before requesting service

Check the following points once again.

#### **POWER**

Trouble	Correction
No power	Check that the Power Plug is completely connected to an AC Outlet.     Check that the POWER Button is set to "ON".

#### RECORDING AND PLAYBACK

Trouble	Correction
TV programs can't be recorded	<ul> <li>Check the connections between VCR, external antenna and your TV.</li> <li>Check that the band selected is set to meet your antenna or cable TV system. (p.8)</li> <li>Make sure that the record tab on the back of the cassette is still intact. (p.16)</li> </ul>
Timer Recording can't be performed	<ul> <li>Set the recording start/stop time correctly. (p.13-14)</li> <li>Make sure that the POWER Button is set to "OFF". (p.14)</li> <li>Timer Recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during Timer Recording, even if power resumes thereafter.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select the same channel on your TV as that of the CH 3/4 Switch on the VCR. (p.1)</li> <li>Set the VCR/TV Selector to "VCR". (p.2)</li> <li>Check that channel 3 or 4 of TV is properly adjusted.</li> <li>Adjust the TRACKING CONTROL slowly in either direction. (p.9)</li> </ul>
During special effects playback, the picture may contain some vertical jitter when using a TV which has Automatic Vertical Hold Control Switch	
If the top of your playback picture waves back and forth excessively	<ul> <li>Because the VCR playback signal is not as stable as an off-the-air TV signal, you might experience the following symptom on your TV screen: top of TV screen is bent or unstable when VCR is played back. To solve this problem, turn the horizontal hold control on your TV slowly to correct the wavy picture. If your TV does not have the horizontal hold control or adjusting the control does not help, please contact your local TV service center.</li> </ul>

#### REMOTE CONTROL

Trouble	Correction
	<ul> <li>Aim the Wireless Remote Control directly at the remote sensor on the VCR.</li> <li>Avoid all obstacles which may interfere with the signal path.</li> <li>Replace or inspect the batteries. (Back Cover)</li> </ul>

#### **OTHERS**

Trouble	Correction ************************************
TV	• Set the VCR/TV Selector to "TV". (p.2)
Video cassette can't be inserted Video cassette can't be removed Video cassette ejects when the OTR, STANDBY, REC and PLAY Buttons are pressed or the POWER Button is pressed	<ul> <li>Insert the cassette with the window side up and the record tab facing you.</li> <li>Check that the Power Plug is completely connected to an AC Outlet.</li> <li>Check the cassette to be sure that the record tab on the back of the cassette is still intact. (p.16)</li> </ul>
OFF to set the Timer	

#### CLEANING CARE FOR VIDEO HEADS ...



Clogged Video Head

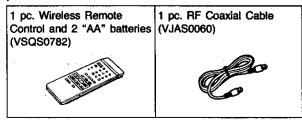
- (a) Video Head Cleaning: Your VCR will not normally require head cleaning: however, it is possible that the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the photograph on the left, while playing back a tape, the heads may require cleaning.
- (b) Cleaning the Heads: It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. There are many types of cleaning cassettes, so be sure to follow the cleaning instructions carefully, excessive use of the cleaning cassette could shorten head life. Use this cassette only when a head clogging symptom occurs.

## CCESSORIES

Check to be sure the following items are packed with your VCR.

#### **ACCESSORIES SUPPLIED**

These accessories are provided to help you use or set up your VCR.



#### **OPTIONAL ACCESSORIES**

This additional accessory is available to you from Panasonic or your local Panasonic dealer.

• 1/2" Video Cassette Tape

### PECIFICATIONS

Power Source: Power Consumption: 120 V AC, 60 Hz Approx. 19 watts

Video Signal: Video Recording System: EIA Standard NTSC color

2 rotary heads, helical scanning system

1 track

Tuner:

Audio Track:

Dimensions:

notice.

**Broadcast Channels: CATV Channels:** 

VHF 2~13, UHF 14~69 "A" (14)~"EEE" (64),

"A-5" (95)~"A-1" (99), "5A" (01), 65~94

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

Operating Humidity: Weight:

10%~75%

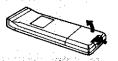
8.6 lbs. (3.9 Kg)

14-3/16" (W) × 3-3/8" (H) × 11-5/8" (D)  $360 \text{ (W)} \times 86 \text{ (H)} \times 295 \text{ (D)} \text{ mm}$ 

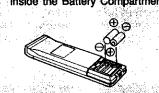
Designs and specifications are subject to change without

#### LOAD THE BATTERIES AS FOLLOWS:

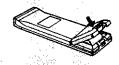
Lift off the lid after pressing in and up on the latch with your thumb nail or other narrow object.



Install two batteries as indicated inside the Battery Compartment.



Fit the lid's hinge piece into the indent on the case, and snap lid into place.



#### **BATTERY REPLACEMENT CAUTION**

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

18

FOR SAFETY'S SAKE: You have a legal description of your VCR when you record it's serial number in the space provided here. The serial number is on the tag located on the back of your VCR. Be sure to retain this manual as your convenient VCR information source.

Date of Purchase

**Dealer Purchased From** 

Dealer Address Dealer Phone No.

Model No. PV-2905

Serial No.

Division of Matsushita Electric One Panasonic Way, Secaucus, Jersey 07094

sonic Hawali, Inc. 99-859 Iwaiwa Street P.O.Box 774 Honolulu, Hawaii 96808-0774

Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 De Infanteria, KM 9.7 Victoria Industrial Park Carolina, Puerto Rico 00630

