



Omnivision VHS

# Panasonic

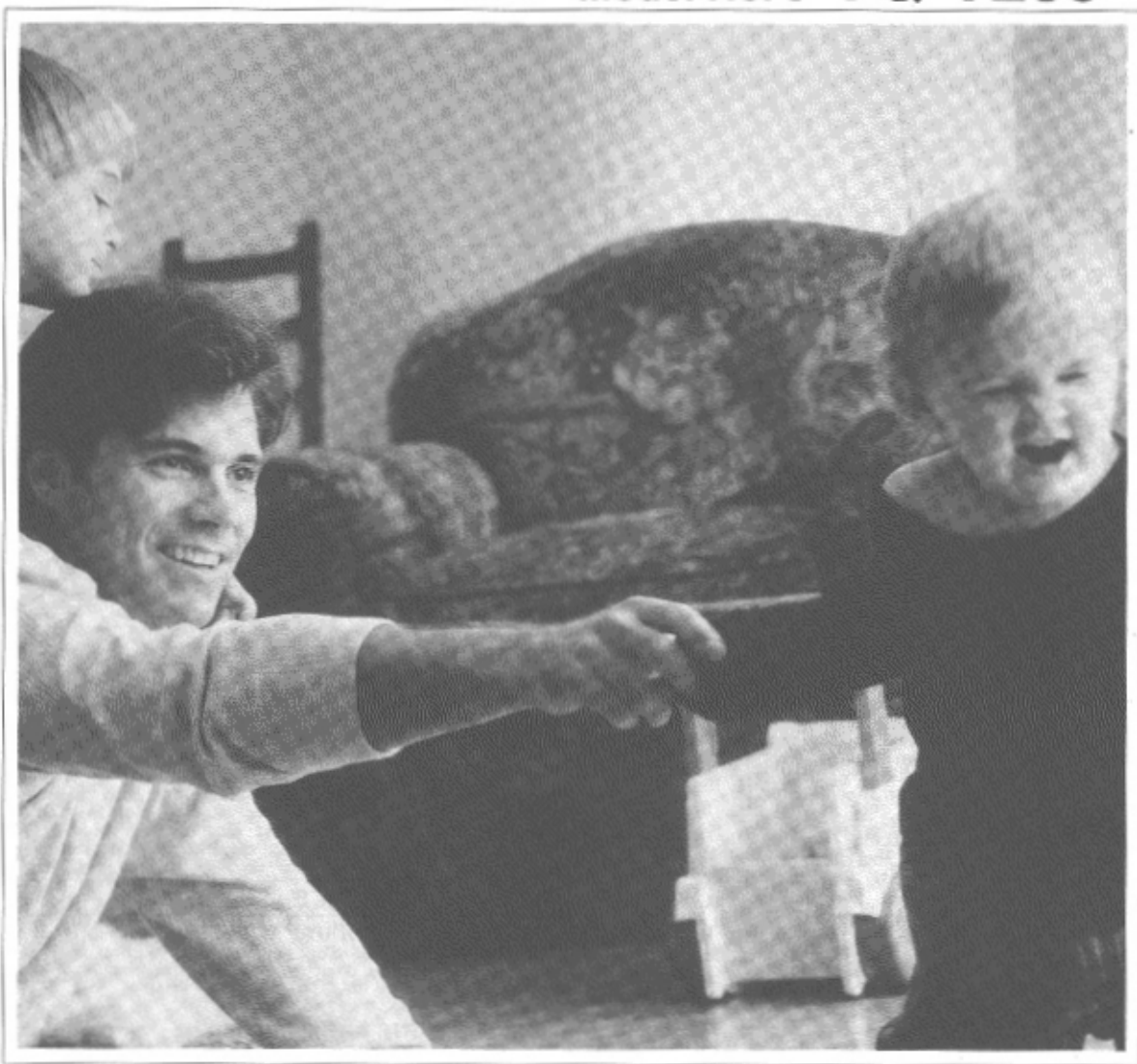
## Video Cassette Recorder Operating Instructions

### Model No. PVQ-V200

Basic Operation

Advanced Operation

For Your Information

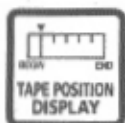


Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

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

Quick Use Guide is on the back cover.

As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.



**SELECT  
SERIES**

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

MAR 2 0 2000

LSQT0190A

# 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

### 1 POWER SOURCE CAUTION

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

### 2 POLARIZED OR GROUNDING PLUG

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

### POLARIZED PLUG CAUTION:

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

### GROUNDING PLUG CAUTION:

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

### 3 POWER CORD

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

### 4 DO NOT BLOCK VENTILATION HOLES

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

For protection, follow these rules:

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

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

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

### 6 TO AVOID PERSONAL INJURY

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

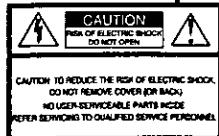


## Safety Precautions

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

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

**Attention:** Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.



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



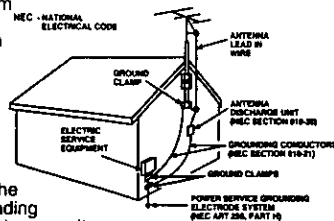
This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

## OUTDOOR ANTENNA INSTALLATION

### 1 SAFE ANTENNA AND CABLE CONNECTION

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges.

Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



### 2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

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

## USING THE VIDEO UNIT

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

### 1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

### 3 DURING AN ELECTRICAL STORM

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

### 4 WHEN THE UNIT IS PLUGGED IN

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

### 5 USING ACCESSORIES

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

### 6 CLEANING THE UNIT

Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

## SERVICE

### 1 DO NOT SERVICE THIS PRODUCT YOURSELF

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

### 2 IF REPLACEMENT PARTS ARE REQUIRED

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

### 3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

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

# Table of Contents

Use  
Now!

<b>Important Safeguards and Precautions</b> .....	2
<b>Accessories</b> .....	4
<b>Loading the Batteries</b> .....	4
<b>Basic Connections</b> (Antenna, VCR, TV) .....	4, 5
<b>One Time VCR Setup</b> (Language, VCR Output Channel, Channel, Clock) ..	6, 7
<b>Playback a Tape</b> (Slow Motion, Still Picture, Frame by Frame) .....	8
<b>Record On a Tape</b> .....	9
• One Touch Recording .....	9

Basic Operation

Enjoy  
more!

<b>Advanced Connections</b> (Cable/DSS) .....	10
<b>Copying Your Tapes</b> (Dubbing) .....	11
<b>Timer Recording</b> .....	12, 13
• Timer Recording .....	12
Using VCR Buttons .....	12
• Review, Replace or Clear Program Contents .....	13
<b>Multi-Brand Control Feature</b> .....	14, 15
<b>Tape Operation</b> (Search System) .....	16 ~ 19
• Program End Search .....	16
• Index Scan .....	17
• Auto Operation Functions .....	17
• Direct Access .....	18
• Repeat Play .....	19
• Zero Search .....	19
• Commercial Skip .....	19
<b>Special VCR Features</b> .....	20, 21
• Tape Position Display .....	20
• Remote Warning ON/OFF .....	20
• VCR Lock .....	20
• Weak Signal Display ON/OFF ....	21
• Auto Shut-Off .....	21

Advanced Operation

Other  
Information!

<b>Reset Language, Channels, Clock, VCR's Output Channel ...</b>	22, 23
<b>VCR &amp; Cassette Information</b> .....	24, 25
• Reset All VCR Memory Functions ...	24
• DST (Daylight Saving Time) ....	24
• Prevent Accidental Tape Erasure ..	24
• Record/Playback Time .....	24
• Head Cleaning .....	25
• Cleaning the VCR .....	25
• Specifications .....	25
• Features for a Quality Picture ..	25
<b>On Screen Displays (OSD)</b> .....	26, 27
• Function & Channel Display ....	26
• VCR Status & Clock Display ...	26
• Blank Tape/ No Video Signal Indication .....	26
• Warning and Instruction Displays ..	27
<b>Before Requesting Service</b> .....	28
<b>Service Center List</b> .....	29
<b>Warranty</b> .....	30, 31
<b>Spanish (Español) Quick Use Guide</b> .....	32, 33
<b>Location of Controls</b> .....	34, 35
<b>Quick Use Guide</b> (Playback, Recording) .....	Back Cover

For Your Information

## Congratulations

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

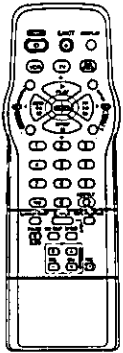
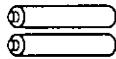
- Date of Purchase \_\_\_\_\_
- Dealer Purchased From \_\_\_\_\_
- Dealer Address \_\_\_\_\_
- Dealer Phone No. \_\_\_\_\_
- Model No. \_\_\_\_\_
- Serial No. \_\_\_\_\_

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

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

## Accessories

- Remote Control LSSQ0207
- Batteries 2 "AA"

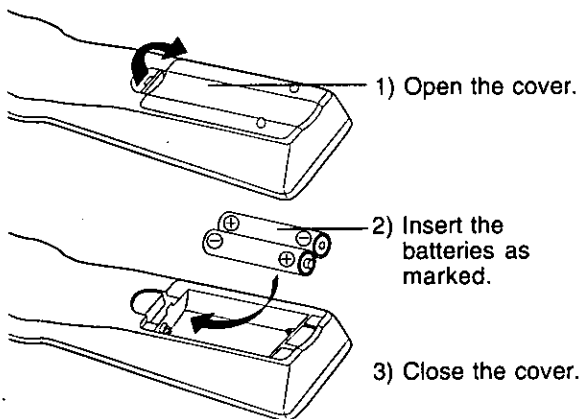


- RF Coaxial Cable VJAS0196



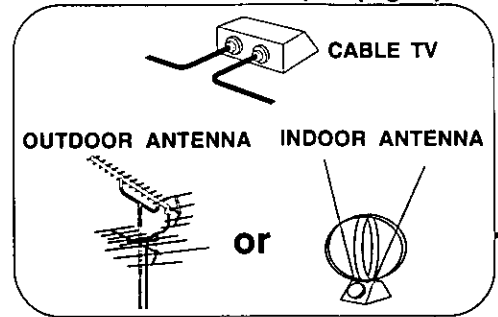
To order accessories, call toll free 1-800-332-5368.

## Loading the Batteries

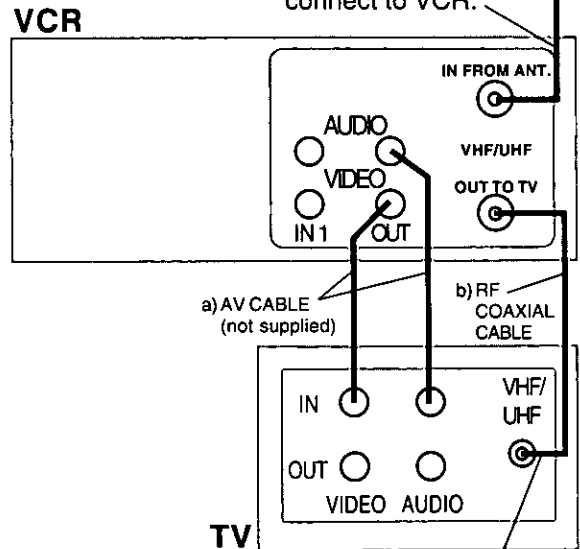


- Battery replacement caution**
  - Do not mix old and new batteries.
  - Do not mix alkaline with manganese batteries.

## ANTENNA (See page 5)



1 Disconnect antenna or cable from TV and connect to VCR.



2 Connect VCR to TV with RF Coaxial Cable.

### Notes

- 1) While connection b) (above) is sufficient, connection a) offers better sound and picture.
- 2) For both connections a) and b) proceed as follows:
  - To use VCR : VCR Power on, set TV to VIDEO.
  - To watch TV : VCR Power off, select channel on.
- 3) Set VCR Output to channel 3 or 4 (not an active station). (See page 6.)

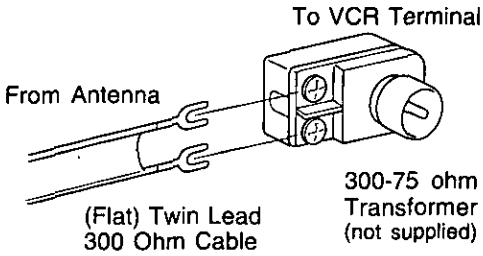
**Note to CABLE system installer:**  
This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be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

### WARNING

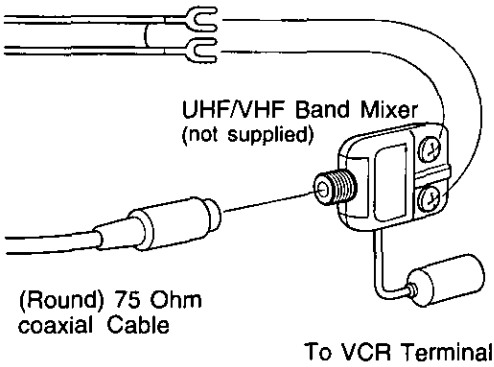
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

# 1 Between ANT. and VCR

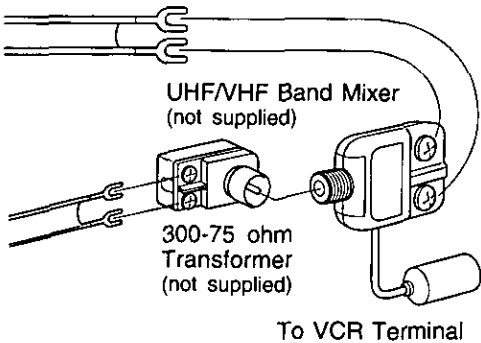
## ■ Case 1: Twin Lead Cable Only



## ■ Case 2: Twin Lead & Coaxial Cables



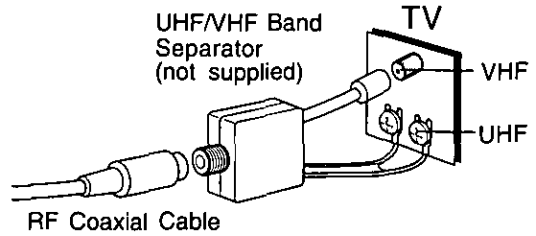
## ■ Case 3: Two Twin Lead Cables



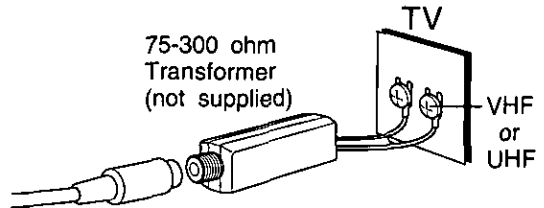
- If your TV has both post and plug-type VHF terminals, the post connection is recommended to minimize signal loss.

# 2 Between VCR and TV

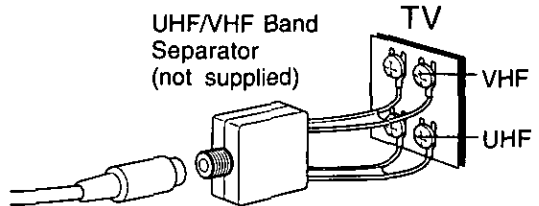
## ■ Case 1: Screw & Plug Type Terminal



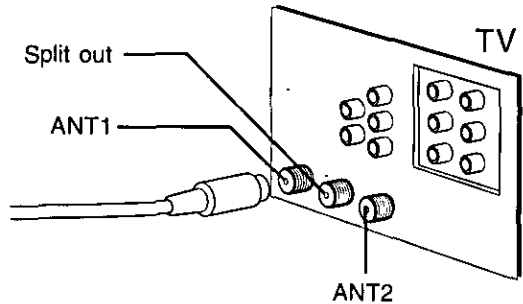
## ■ Case 2: Screw Type Terminal



## ■ Case 3: Double Screw Type Terminal



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

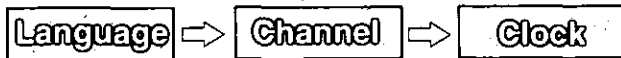


- Connect to one of the ANT terminals and select the same antenna number on the TV.

# OneTime VCR Setup

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

## Process of Setup



1



Turn the TV and VCR on.

Press POWER\*.

Set TV Channel to CH 3.

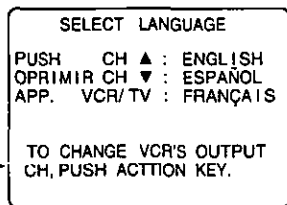
\* If using AV Cable connection, set TV to Video instead of channel. (See connection a) on page 4.)

2

Display SELECT LANGUAGE.

This display appears for first time setup only.

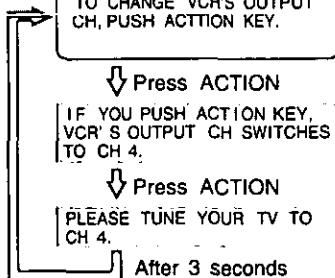
Select the language.



CH ▲ TRACKING▲ for English

CH ▼ TRACKING▼ for Spanish (ESPAÑOL)

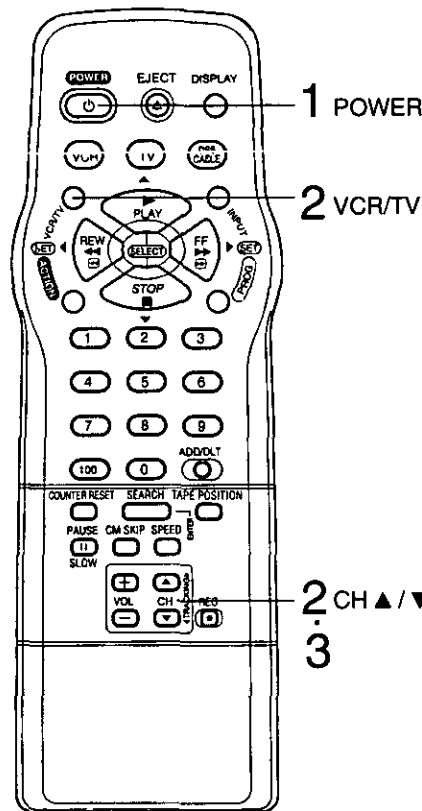
VCR TV for French (FRANÇAIS)



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

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

- Always tune TV to this channel to monitor the VCR.
- If you used audio/video jack connection, tune the TV to its video input.
- If wrong language is set, do "Reset All VCR Memory Functions" steps on page 24.



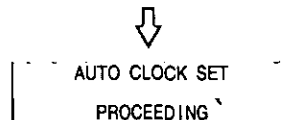
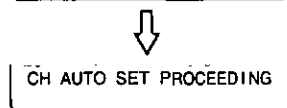
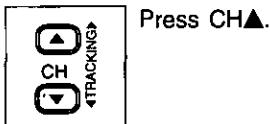
3

### CHANNEL/CLOCK AUTO SET

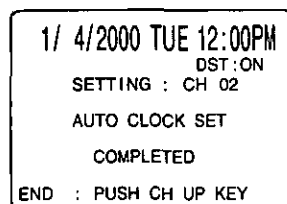
CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PUSH CH UP KEY

Start Channel Auto Set and Clock Auto Set.

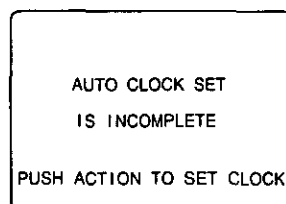


Case 1 (Setup completed)



Press CH ▲ to exit.  
• If your area observes DST (daylight saving time), but the time is incorrect; do the "Time Zone Adjust" steps on page 23.

Case 2 (Setup incomplete)



See next page.

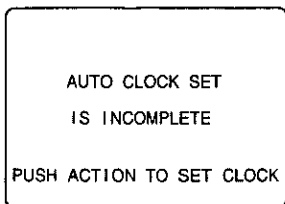
- If the displayed time is not correct, do the "Clock" section on page 22.

6

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

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

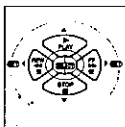
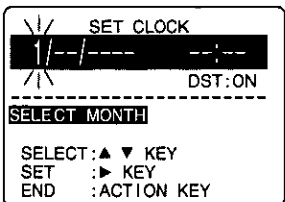
## Case 2 Clock Setup Incomplete.



**Set the clock manually.**



1) Press ACTION.

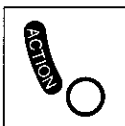
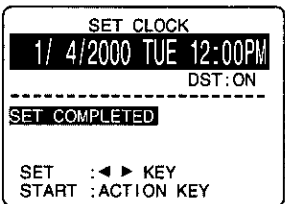


2) Press ▲▼ to select month.

3) Press ► to set.

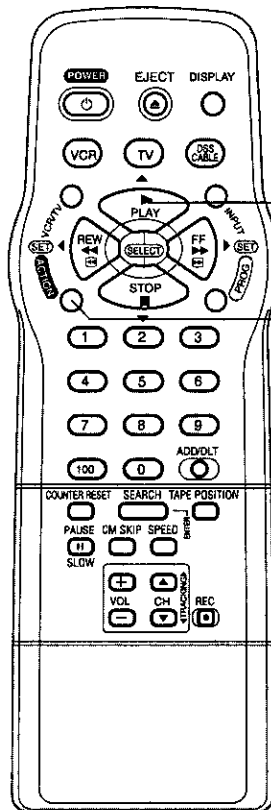
- Likewise, set date, year, time, DST (Daylight Saving Time).

**To Make Corrections,** repeatedly press ◀▶ to move to error, then correct.



4) Press ACTION. (Clock starts.)

- To exit this mode, press ACTION again.



SELECT/SET  
▲: PLAY  
▼: STOP  
◀: REW  
▶: FF  
ACTION

### Notes

- VCR calendar is accurately maintained to Dec. 31, 2096 11:59PM.
- Channel auto set selects normal TV or Cable channels depending on your VCR hookup.
- To reset Language, Channels, Clock or VCR's Output Channel see pages 22 and 23.

### IMPORTANT NOTE FOR AUTO CLOCK SET

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

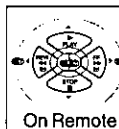
### Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

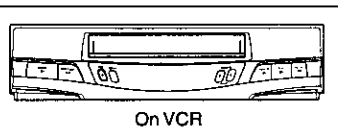
When menu screens are displayed, the PLAY, STOP, REWIND, and FF buttons on the VCR and remote function as ▲▼◀▶ only with no tape inserted.

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

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



On Remote



On VCR

▲: PLAY  
▼: STOP  
◀: REW  
▶: FF

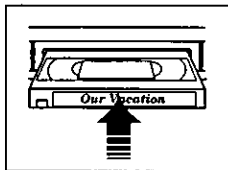
# Playback a Tape



## Check list before you begin.

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

1



## Insert a cassette.

- VCR power comes on and "VCR" appears on display.

2

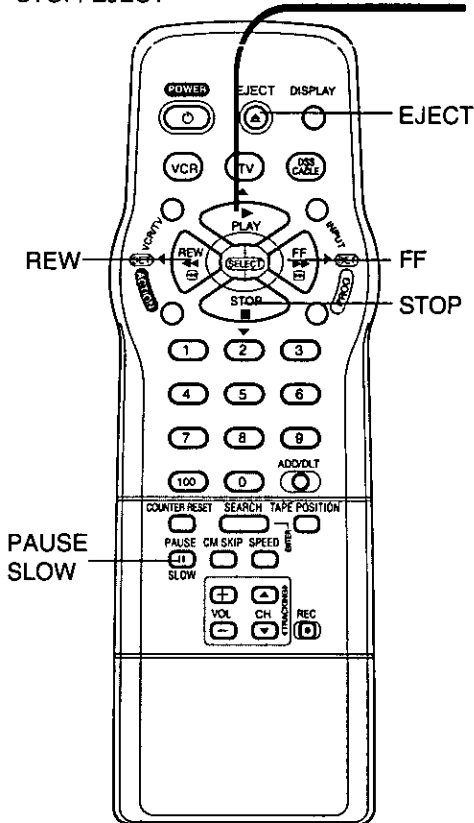


## Press PLAY.

- Or, if cassette has no record tab (see page 24), auto playback begins.
- These features work best in SLP mode.
- The sound will be muted.



STOP/EJECT



- To Find a Particular Scene  
Forward Search --> Press FF. (To release, press PLAY or FF.)  
Reverse Search --> Press REW. (To release, press PLAY or REW.)
- For Still (Freeze) picture --> Press PAUSE/SLOW. (To release, press PLAY.)
- For Frame by Frame picture --> Press PAUSE/SLOW in Still mode. (To release, press PLAY.)
- For Slow Motion --> Press and hold PAUSE/SLOW in Still mode. (To release, press PLAY.)

## Notes

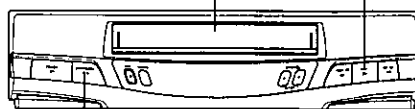
- To reduce picture noise, see "Manual Tracking Control" on page 25.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

- To stop --> Press STOP.
- To rewind tape --> Press REW in Stop mode.
- To fast forward tape --> Press FF in Stop mode.
- To eject tape --> Press EJECT on the remote or STOP/ EJECT on the VCR.

## Playback using VCR controls

1 Insert a cassette.

2 Press PLAY.

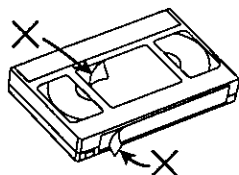


- Press to stop and/ or eject tape.

## Note

### ● To prevent tape jam

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



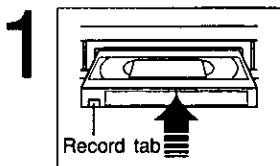
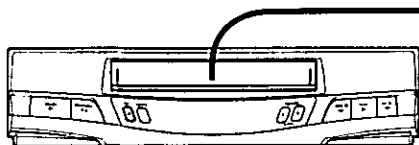


# Record On a Tape

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

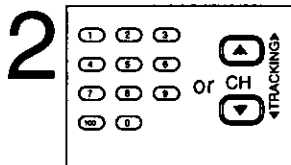
## ✓ Check list before you begin.

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



### 1 Insert a cassette.

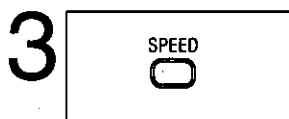
- VCR power comes on and "VCR" appears on display.



### 2 Select Channel.

Press CH ▲/▼\* or NUMBERED keys.

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

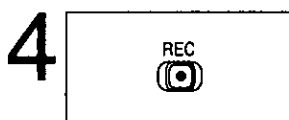


### 3 Select Recording speed.

(See page 24.)

Press SPEED.

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



### 4 Start Recording.

Press REC.

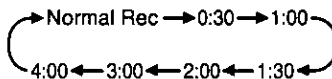
- To edit out unwanted portions, press PAUSE/SLOW to pause and resume recording.

■ To stop --> Press STOP.

#### ■ One Touch Recording

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

- The VCR turns itself off at a preset time.



#### ■ Record One Program While Watching Another

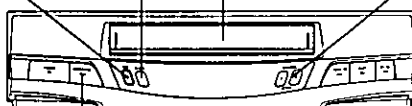
Press VCR/TV--> "VCR" disappears on VCR display --> Select Channel at the TV.

#### ■ Selecting Channel at the VCR (You cannot view another channel during recording.)

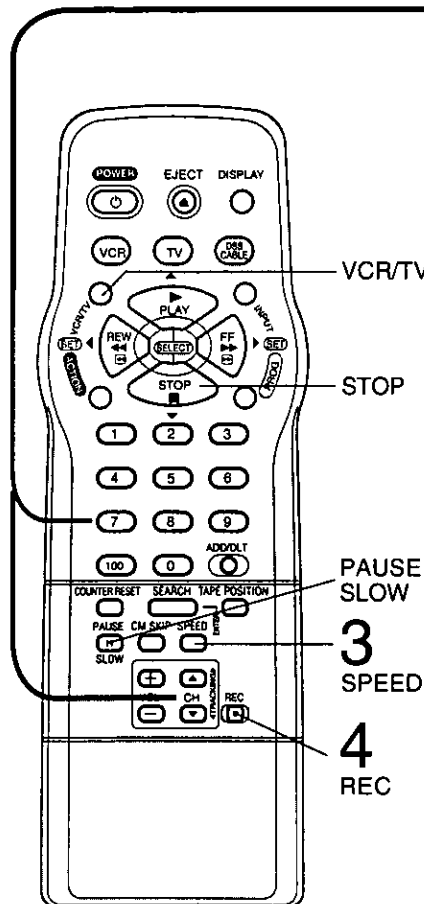
Press VCR/TV--> "VCR" appears on VCR display --> Select Channel at the VCR (applies to connection b) only. (See page 4)

#### You can operate on the VCR

- 4 Start Recording.
- VCR/TV
- 1 Insert a cassette.
- 2 Select Channel.



■ Press to stop.



#### Note

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

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the **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.

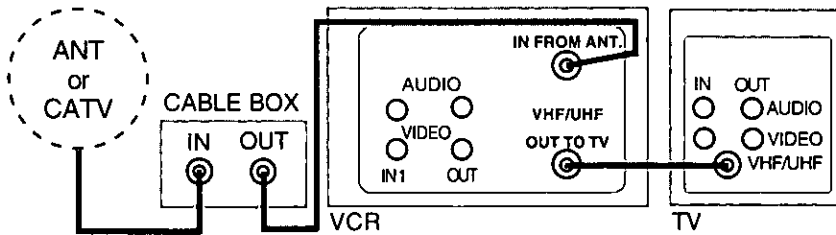
# Advanced Connections

Be sure to tune TV to VCR output channel. (The same one you set on screen of TV: CH3 or CH4.)

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

## CATV Connection

### ■ With a Cable Box (Cable Box → VCR)



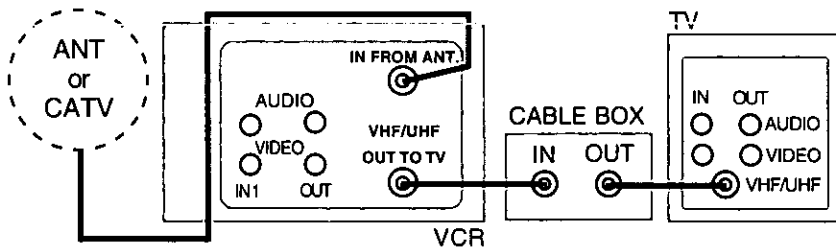
#### You Can

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

#### You Cannot

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

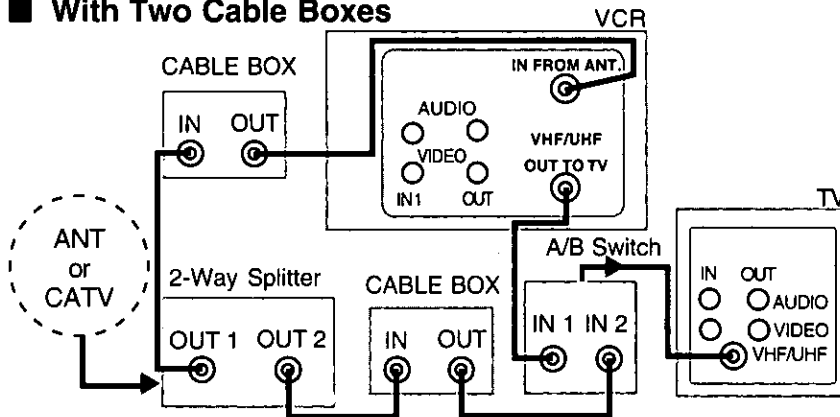
### ■ With a Cable Box (VCR → Cable Box)



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

- record scrambled channels.

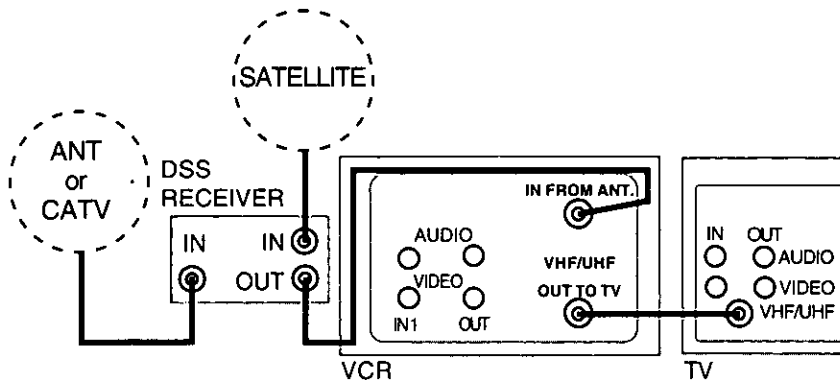
### ■ With Two Cable Boxes



- record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch, and a 2-way splitter.

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

## DSS Connection



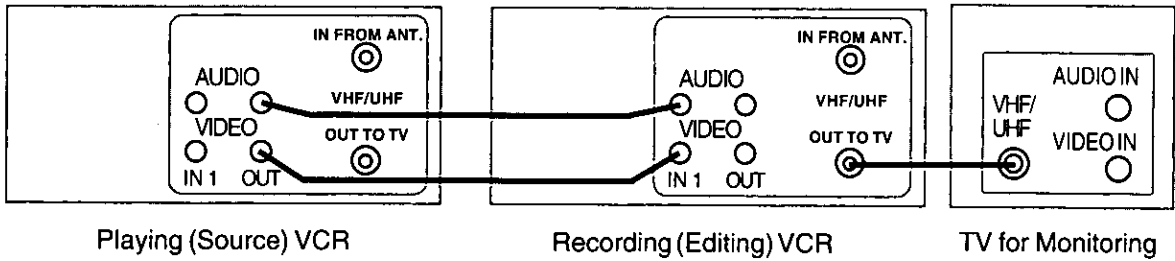
- record and view any (including scrambled) channel.
- use your VCR Remote Control to select channels using Multi-brand control feature.

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

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

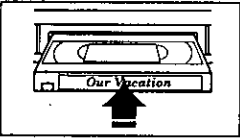
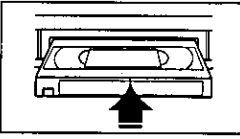


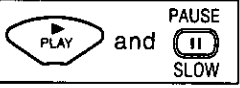
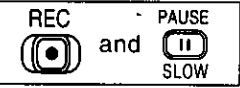



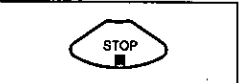
# Copying Your Tapes (Dubbing)

Connections you'll need to make.



## Playing (Source) VCR

## Recording (Editing) VCR

- |          |   |   |          |   |  |
|----------|---|---|----------|---|--|
| <b>1</b> |    | <b>Insert pre-recorded tape.</b>  | <b>1</b> |    | <b>Insert blank tape with record tab.</b>                              |
| <b>2</b> |    |   | <b>2</b> |    |  |
| <b>3</b> |    | <b>Put in Standby mode.</b><br>Press PLAY, then PAUSE/SLOW at starting point. | <b>3</b> |    | <b>Put in Standby mode.</b><br>Press REC, then PAUSE/SLOW immediately. |
| <b>4</b> |  | <b>Start dubbing.</b><br>Press PLAY.  | <b>4</b> |  | <b>Start dubbing.</b><br>Press PAUSE/SLOW.                             |
| <b>5</b> |  | <b>Stop dubbing.</b><br>Press STOP.   | <b>5</b> |  | <b>Stop dubbing.</b><br>Press STOP.                                    |

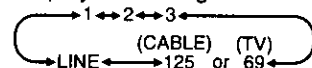
Advanced Connection/Copying Your Tapes (Dubbing)

### ■ To Monitor Dubbing on Your TV

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

### ■ Selecting the Input Mode

- Method 1: Press INPUT.  
Channel Number <--> LINE
- Method 2: Press CH ▲ / ▼.  
Display will change as below.






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

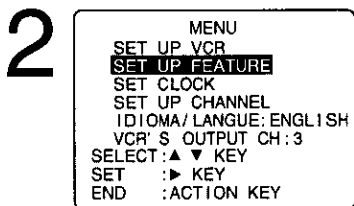
**Note** Dubbing tapes protected with Copy Guard will have poor quality results.

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

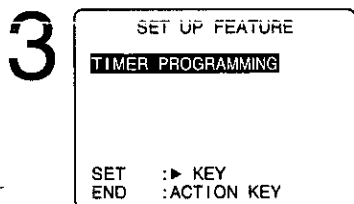
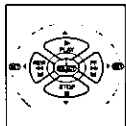
# Timer Recording

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

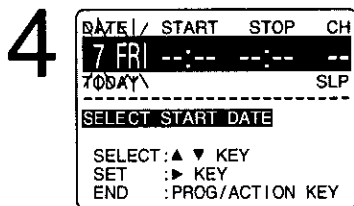
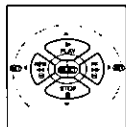
- 1**  **Display menu.** Press ACTION.\*   **Display program screen.**
- 1) Press PROG.\*
  - 2) Go to step 4.
- \* You can also set up using VCR buttons. See the bottom right of this page.
  - \* If a program is already in memory, press ▲▼ and ► to select an unused program number.



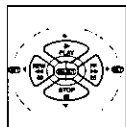
- Display SET UP FEATURE.**
- 1) Press ▲▼ to select.
  - 2) Press ► to display.



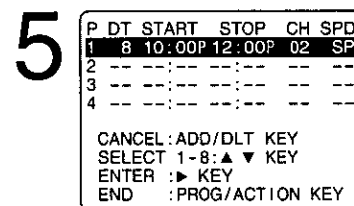
- Display Program screen.**
- 1) Press ► to display.
- \* If a program is already in memory, press ▲▼ and ► to select an unused program number.



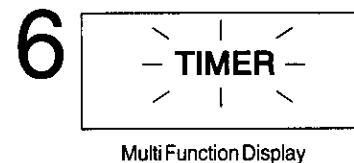
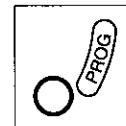
- Set the recording DATE.**
- 1) Press ▲▼ to select.
  - 2) Press ► or ◀ to set.
- 1-31 = One time
  - DAILY = MON-FRI
  - WEEKLY = Same time once a week



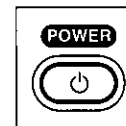
**Example** 8-9.....31-1-2.....6  
 Today-7 SELECT▲/▼ Selection Order DAILY  
 WEEKLY.....WEEKLY.....WEEKLY  
 (SAT) (MON) (SUN)  
 Repeat step 4 to set: start time, stop time, Channel (or LINE for outside source), tape speed (SP, LP, SLP).



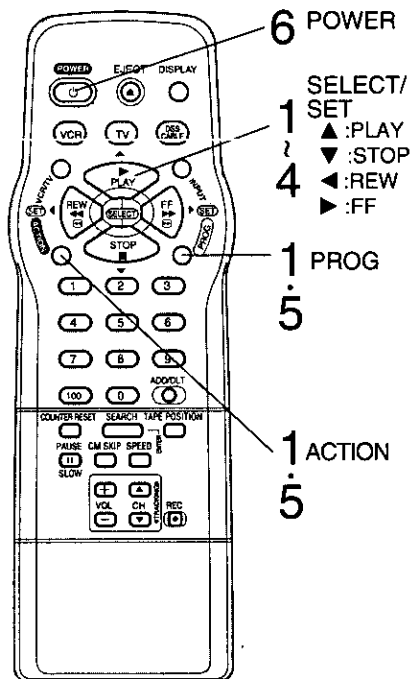
- End the program.**
- 1) Press PROG (or ACTION).
- To Enter More Programs**  
 Press ▲▼ to select, and ► to display a blank program number. Then repeat steps 4 and 5.
- 2) Press PROG (or ACTION) again to exit.



- Set the timer.**
- Press POWER off.**
- When recording programs via a cable box, make sure the cable box is left ON and tuned to the desired channel.



- Check list before you begin.**
- All connections are made. (See pages 4-5.)
  - TV and VCR are plugged in and turned on.
  - VCR/TV selector is set to "VCR."
  - Clock is set to correct time.
  - Record tab in place. (See page 24.)
  - Remote in VCR mode.





## Timer Recording Using VCR Buttons.

### Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

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

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

**On Remote**  **On VCR** 

- ▲: PLAY
- ▼: STOP
- ◀: REW
- ▶: FF

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

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

## Review, Replace or Clear Program Contents:

(Recording is not in progress)

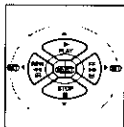
**1** Repeat steps 1~3 on page 12.

**2**

P	DT	START	STOP	CH	SPD
1	DAY	9:00A	12:00A	08	SP
2	8	10:00P	12:00P	02	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L1	LP

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

### Select program.



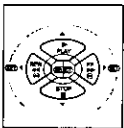
1) Press ▲▼ to select number.

**3** To Replace program...

DATE	START	STOP	CH
8 SAT	10:00P	12:00P	125
TODAY			SP

SELECT START DATE

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



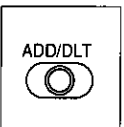
1) Press ► to display.  
 2) Press ▲▼,◀▶ to set new program contents.

or

### To Clear program...

P	DT	START	STOP	CH	SPD
1	--	--	--	--	--
2	8	10:00P	12:00P	02	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	LP

SELECT 1-8: ▲ ▼ KEY  
 ENTER: ► KEY  
 END: :PROG/ACTION KEY



1) Press ADD/DLT to clear.

**4**

### End the program.

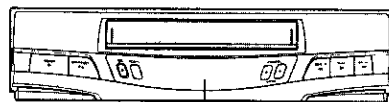
1) Press PROG (or ACTION).  
 • If there are programs, press POWER off.

### Important notes when using a DSS receiver

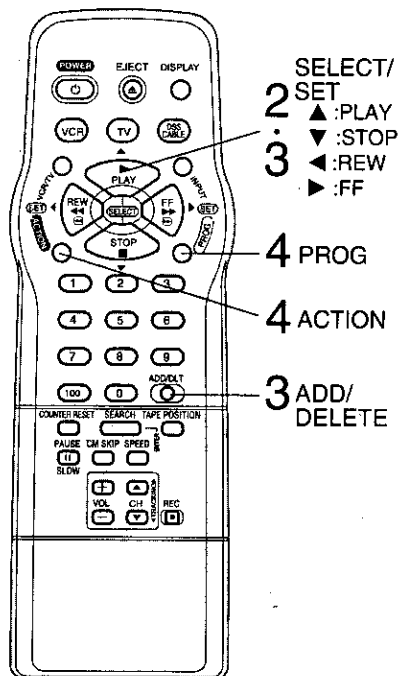
- When recording programs via a DSS receiver, the DSS receiver must be left on.
- When recording programs via an antenna or cable, the DSS receiver must be turned off.

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

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



Multi Function Display



Timer Recording

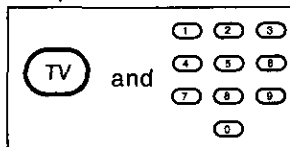
# Multi-Brand Control Feature

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

## Multi-Brand Control Setup

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

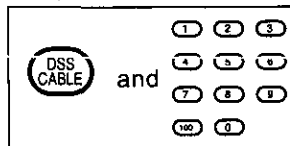
### 2 Setup for TV



#### Setup remote.

Hold down TV and enter code with NUMBERED keys.

### Setup for Cable or DSS



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

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



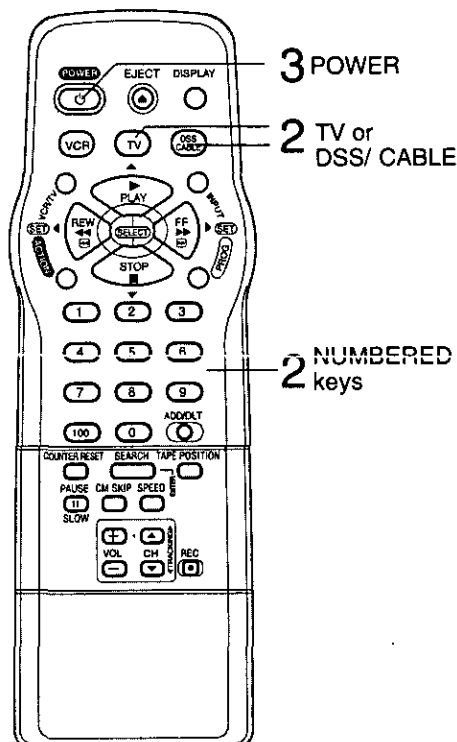
#### Confirm code entry.

Press POWER to turn selected unit ON or OFF.

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

#### Notes

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



## Using the Multi-Brand Control

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

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

This table shows which buttons are available for each mode.

Mode \ Available Buttons	VCR	TV	CABLE/ DSS
<b>VCR</b>	All Functions	VOL UP/DOWN	————
<b>TV</b>	VCR/TV, PLAY, STOP EJECT, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET, TAPE POSITION, CMSKIP	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	————
<b>CABLE/ DSS</b>	VCR/TV, PLAY, STOP EJECT, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, COUNTER RESET, TAPE POSITION, CMSKIP	VOL UP/ DOWN	POWER, ENTER, NUMBERED keys (except 100key), CH UP/ DOWN

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

## TV Brand Code Numbers

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		

## Cable Box Brand Code Numbers

Archer .....	05, 06, 01, 44, 63, 91, 126	Quest .....	05, 06
Cabletenna .....	01, 44, 63, 91, 126	Radio Shack .....	51, 44, 59, 75, 126
Cableview .....	63, 44, 42, 30, 52, 04, 124, 126	RCA .....	16, 17, 97, 109
Century .....	51, 44, 59, 75, 126	Realistic .....	51, 44, 59, 75, 126
Citizen .....	63, 44, 42, 30, 52, 04, 124, 126	Recoton .....	51, 44, 59, 75, 126
Curtis .....	08, 09, 61, 53, 87	Regal .....	14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond .....	01, 44, 63, 91, 126	Regency .....	28, 130
Drake .....	67	Rembrandt .....	01, 32, 39, 42, 44, 63, 126
Eagle .....	13, 22, 58, 62, 20, 40, 26, 107	Salora .....	68
Eastern .....	28, 130	Samsung .....	05, 32, 40, 42, 06
GC Brand .....	63, 44, 42, 30, 52, 04, 124, 126	Scientific Atlanta .....	08, 09, 61, 53, 87
Gemini .....	04, 124	Sheritech .....	27
General Electric .....	57, 01	Signal .....	26, 112
General Instruments .....	01, 02, 03, 04, 34, 55, 83, 106, 65, 67, 68, 115, 117, 118, 124, 91	SL Marx .....	32, 40, 42, 06, 43, 44, 52, 63, 126
Hamlin .....	14, 15, 28, 41, 102, 103, 104, 108, 130	Sprucer .....	16, 17, 97, 109
Hitachi .....	31	Standard Components .....	32, 39, 42, 44, 126
Jasco .....	04, 124	Stargate .....	32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126
Jerrold .....	01, 02, 03, 04, 34, 55, 83, 106, 65, 67, 68, 115, 117, 118, 124, 91	Sylvania .....	19
Macom .....	31	Teknika .....	74
Magnavox .....	26, 112	Telecaption .....	77, 127
Matsushita .....	16, 17, 97, 109	Television .....	32, 40, 42, 06
Movietime .....	32, 39, 42, 44, 126, 38, 40	Texscan .....	18, 19
NEC .....	38, 40, 32	Tocom .....	33, 34, 01, 42, 66, 91
NOVAVISION .....	08, 09, 61, 53, 87	Toshiba .....	36
NSC .....	38, 40, 32	Uniden Satellite .....	65
Oak .....	46, 11, 129	Unika .....	01, 44, 63, 91, 126
Oak Sigma .....	46, 11, 129	Universal .....	42, 43, 44, 52, 63, 126
Panasonic .....	16, 17, 97, 109	Videoway .....	07, 23, 50, 129
Philips .....	07, 13, 20, 23, 24, 50, 128, 129	Vid Tech .....	64
Pioneer .....	05, 06	Vidtek .....	64
Pulsar .....	63, 44, 42, 30, 52, 04, 124, 126	Viewstar .....	13, 22, 58, 62, 20, 40, 26, 107
		Zenith .....	07, 23, 50, 129

## DSS Brand Code Numbers

Toshiba .....	92	Panasonic .....	96
Hitachi/ Hughes .....	93	RCA .....	97
Magnavox/ Uniden 1 .....	94	Sony .....	98, 105
Magnavox/ Uniden 2 .....	95		

### Important Notes

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

# Tape Operation

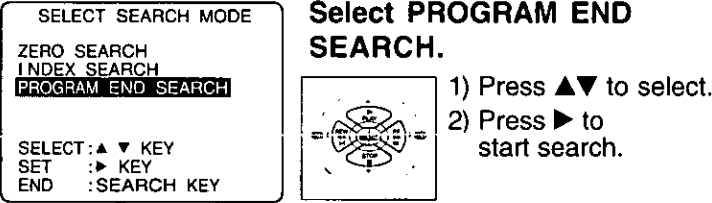
## Search System

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

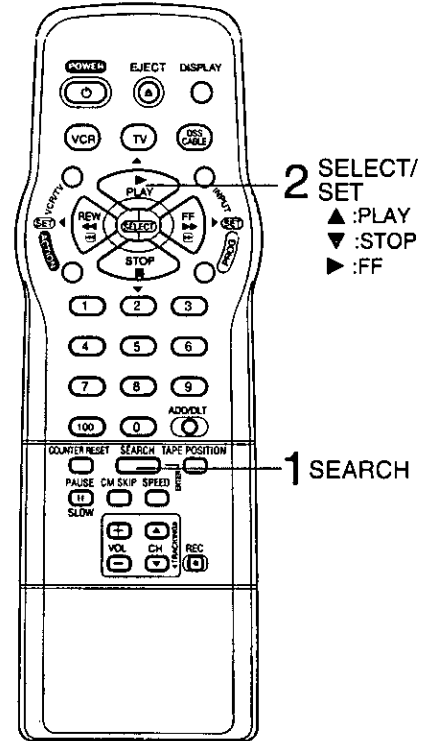
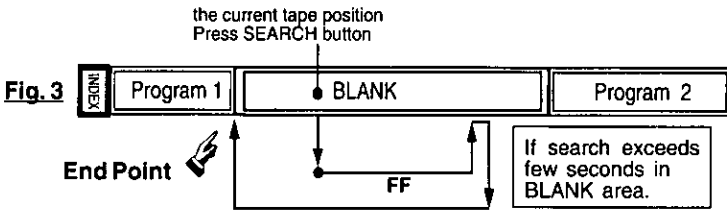
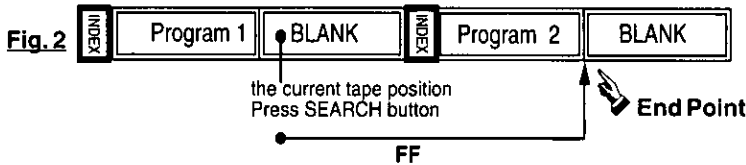
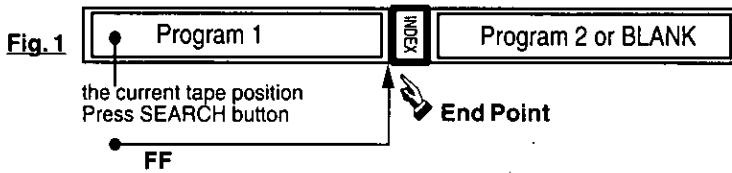
### Program End Search

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

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

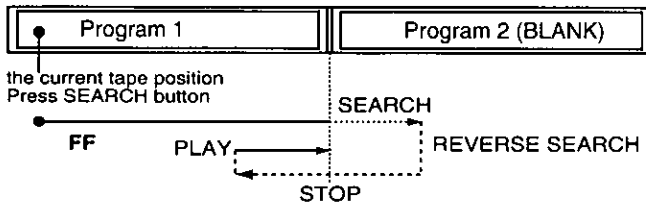
**2** 

Examples of Program End Search operation.



If Program End Point (👉) is found.

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



#### Notes

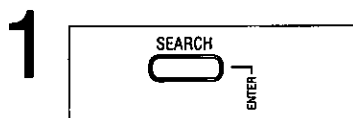
- If Program End Search is started very close to an index mark, one program may be skipped over.
- To cancel Program End Search, press PLAY or STOP.



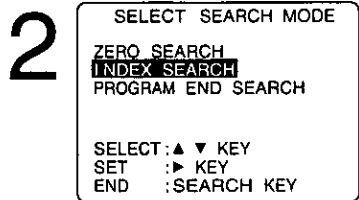
\*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

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

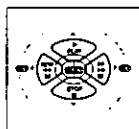
In Play mode, the first 10 seconds of each recording can be scanned (forward or reverse).



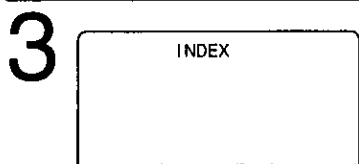
Display **SELECT SEARCH MODE** in Stop or Play mode. Press SEARCH.\*



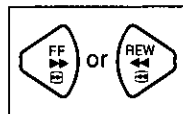
Select **INDEX SEARCH**.



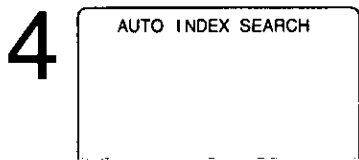
1) Press ▲▼ to select.  
2) Press ► to display.



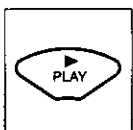
Start scan.



Press FF or REW.



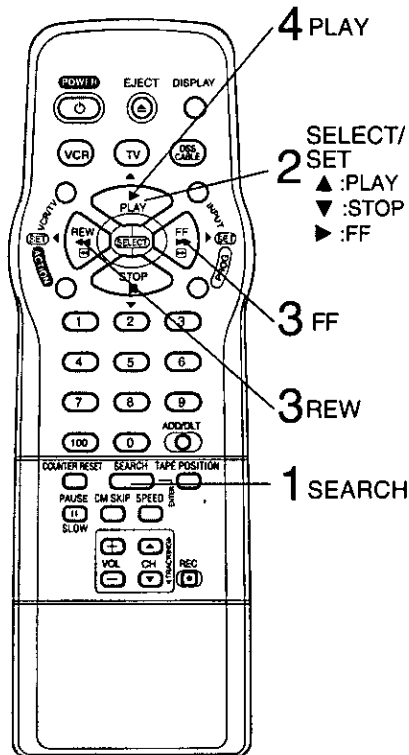
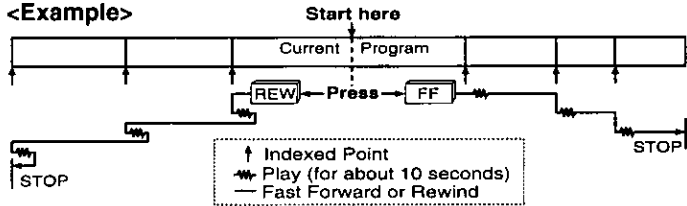
Cancel scan, start playback.



Press PLAY.

• To stop, press STOP.

<Example>



Tape Operation

## Auto Operation Functions

### Auto Playback

Insert tape --> Power turns on -->  
--> Starts playback if record tab  
(see page 24) is removed.

### Auto Rewind

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

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

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

### Memory Rewind Off

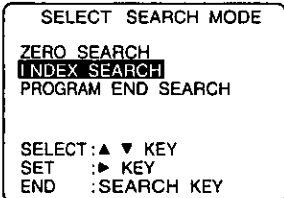
Rewind --> Press POWER -->  
-->Turns off after completed

# Tape Operation (continued)


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


Go directly to desired recording.

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

**2**  **Select INDEX SEARCH.**

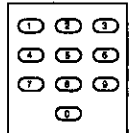
1) Press ▲▼ to select.  
2) Press ► to display.

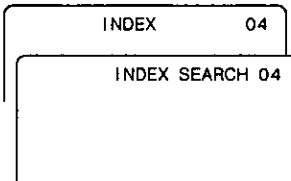


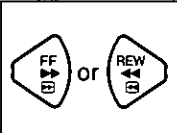
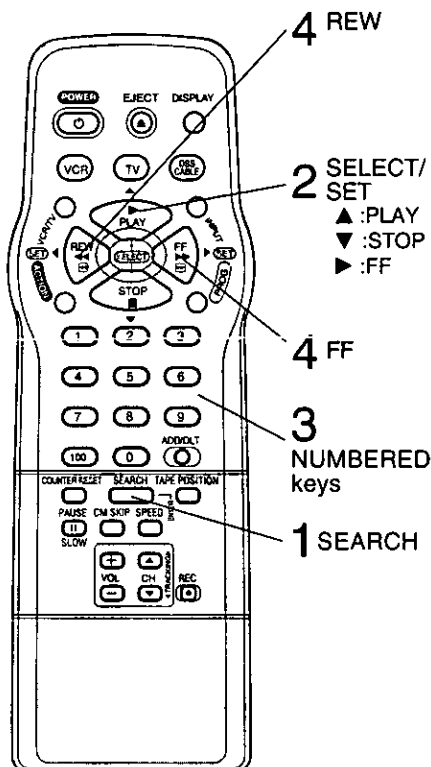
**3**  **Select the recording number.**

Press NUMBERED keys.

- To calculate number, see below.



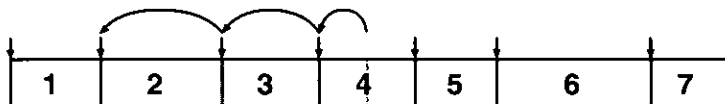
**4**  **Start search.** Press FF or REW.

### ■ To Calculate Index Number

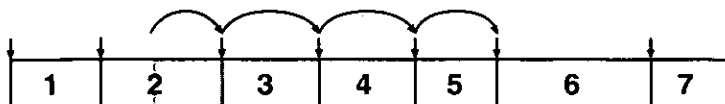
#### Example 1:

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



#### Example 2:

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



NOTE: ↓ indicates start points of each recording.

### Notes

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

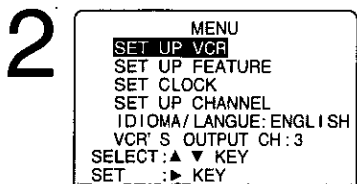
\*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, NUMBERED keys, INPUT, SEARCH or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

## Repeat Play

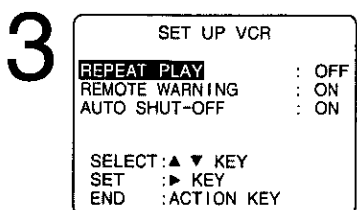
Set to playback a recording over and over.



**Display menu.**  
Press ACTION.\*

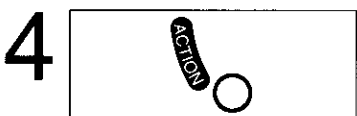


**Display SET UP VCR.**  
1) Press ▲▼ to select.  
2) Press ► to display.



**Set ON or OFF.**  
1) Press ▲▼ to select "REPEAT PLAY."  
2) Press ► to set.

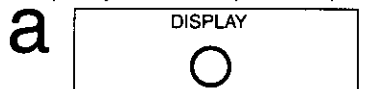
• Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.



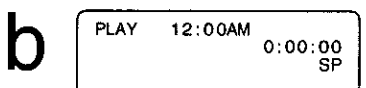
**Return to normal screen.**  
Press ACTION twice.

## Zero Search

To quickly return to specific tape counter location.



**Display Counter.**  
Press DISPLAY during playback.

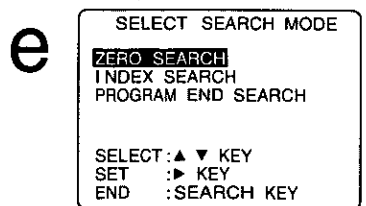


**Reset to "0:00:00."**  
Press COUNTER RESET at the desired position.

c **Continue recording, playback etc.**

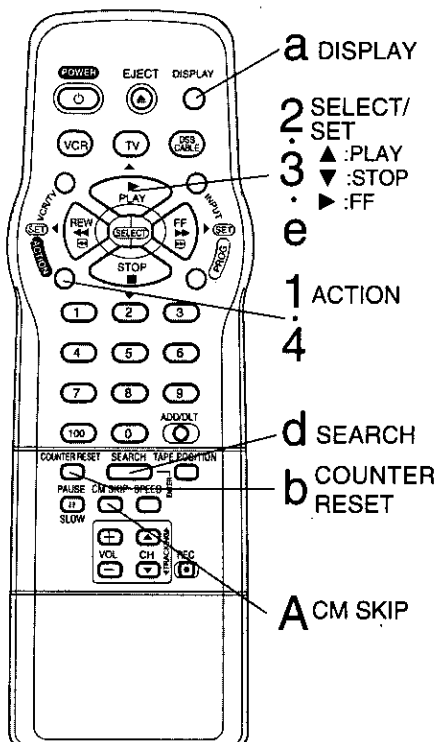


**Display SELECT SEARCH MODE** in Stop mode.  
Press SEARCH.\*



**Select ZERO SEARCH**  
Press ► to display.

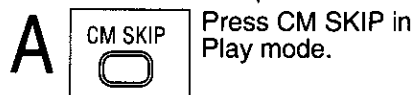
• Unit will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.



Tape Operation

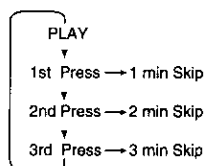
## Commercial Skip

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



Press CM SKIP in Play mode.

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



# Special VCR Features

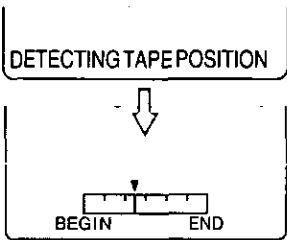
## Tape Position Display Feature

To find out the present tape position.

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



**Detect Tape Position.**  
Press TAPE POSITION.



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



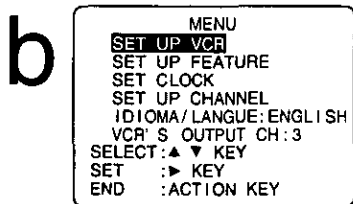
**Return to normal screen.**  
Press TAPE POSITION.

## Remote Warning ON/OFF Feature

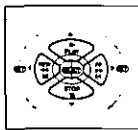
If Multi-brand feature is used (page 14), and this feature is set to on, a warning whenever an invalid key is pressed in TV, DSS, or Cable mode.



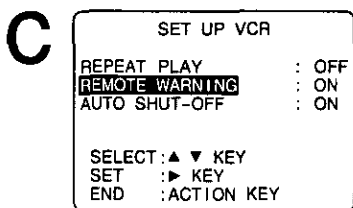
**Display menu.**  
Press ACTION.\*



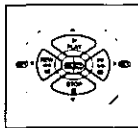
**Display SET UP VCR.**



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



**Set ON or OFF.**



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

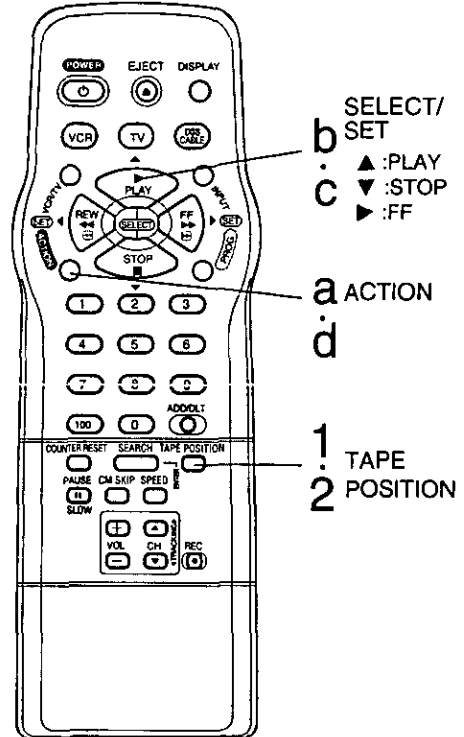
- "OFF" --> remote warning will not appear even if invalid key is pressed.



**Return to normal screen.**  
Press ACTION twice.

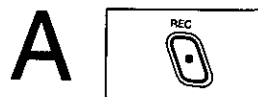
**Check list before you begin.**

- All connections are made. (See pages 4-5.)
- VCR is plugged in.
- TV is turned on and tuned to CH3, 4 or Video.

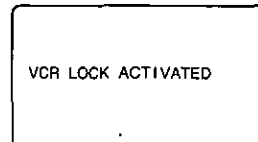


## VCR Lock Feature

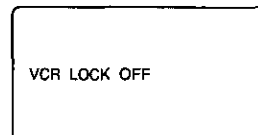
All operations are prohibited except timer recording and tape eject. Useful for families with small children.



Press REC in Stop mode.

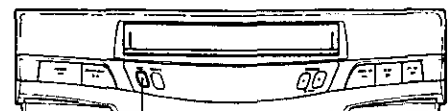


**To turn ON:**  
In Stop mode, hold down REC on the VCR without a cassette inserted for 7 seconds.



**To turn OFF:**  
Repeat above.

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



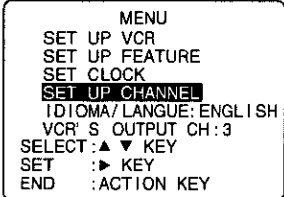
**A REC**

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

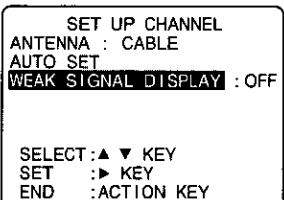
## Weak Signal Display ON/OFF Feature

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

**1**  **Display menu.**  
Press ACTION.\*


**2**  **Display SET UP CHANNEL**

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

**3**  **Set ON or OFF.**

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

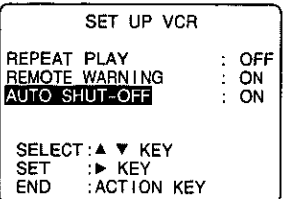
- ON --> Picture is displayed regardless of signal condition, and may not always be clearly visible.
- OFF --> Screen turns solid blue when signal is absent or weak.
- If VCR is connected to equipment which has blue back feature, selecting ON will have no effect on the other equipment.

**4**  **Return to normal screen.**  
Press ACTION twice.


## Auto Shut-Off Feature

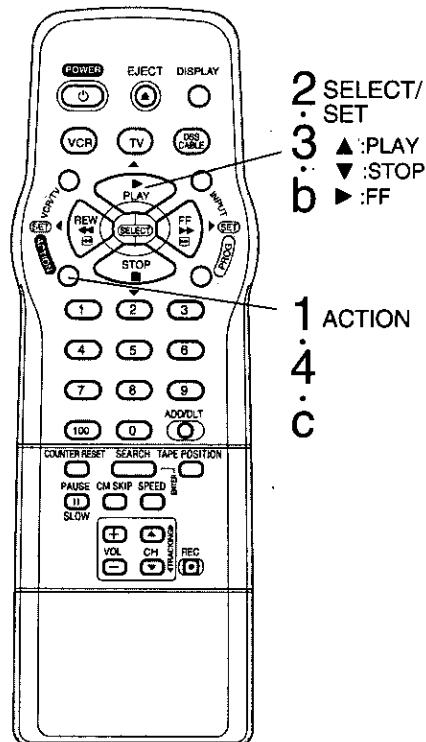
When "ON" is selected, VCR shuts itself off when playback of a blank portion of tape continues or no signal (except when LINE is selected) is detected for over 5 minutes.

**a** Repeat step "a" and "b" on page 20 to display SET UP VCR.

**b**  **Set ON or OFF.**

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

**c**  **Return to normal screen.**  
Press ACTION twice.



# Reset Language, Channels, Clock, VCR's

1

```

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



Display menu.  
Press ACTION.\*

## 2 ■ Language

1) Press ▲▼ to select language item.

```

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

2) Press ► repeatedly.

```

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

For English

```

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

For Spanish

```

MENU
REGLAGE MAGNETOSCOPE
REGLAGE MAGNETO SUPPLEM
REGLAGE HORLOGE
REGLAGE CANAL
LANGUAGE/ IDIOMA: FRANÇAIS
CA SORTIE: 3
SEL : ▲ ▼
REGLER: ►
FIN : ACTION
    
```

For French

## ■ Channels

1) Press ▲▼ to select SET UP CHANNEL.

```

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

2) Press ►.

```

SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
WEAK SIGNAL DISPLAY : OFF

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

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

4) Press ▲▼ to select "AUTO SET," then press ►.

- If you use a cable box, set it to the PBS channel in your time zone.

```

CHANNEL/CLOCK AUTO SET

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

PLEASE PUSH CH UP KEY
    
```

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

5) Press CH ▲.

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

## ■ Clock

1) Press ▲▼ to select SET CLOCK.

```

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

2) Press ►.

```

SET CLOCK

AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0

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

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

3) Press ▲▼ to select MANUAL and press ►.

- For Auto Clock Set, select "AUTO CLOCK SET," then press CH ▲.

```

SET CLOCK / / \ / \ /
11 / 4 / 2000 TUE 12:00PM
DST: ON \
-----
SELECT HOUR

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

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

5) Press ACTION twice to start the clock and exit this mode.

# Output Channel

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

## Time Zone Adjust

(When Auto Clock is set only.)

- 1) Press ▲▼ to select SET CLOCK.

```

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

- 2) Press ►.

```

SET CLOCK

AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0

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

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

```

SET CLOCK

AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : +1

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

- 4) Press ACTION twice.

- 5) Press POWER off to perform AUTO CLOCK SET.

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

## VCR's Output Channel

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

```

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

- 2) Press ►.

```

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

- 3) Press ACTION.

```

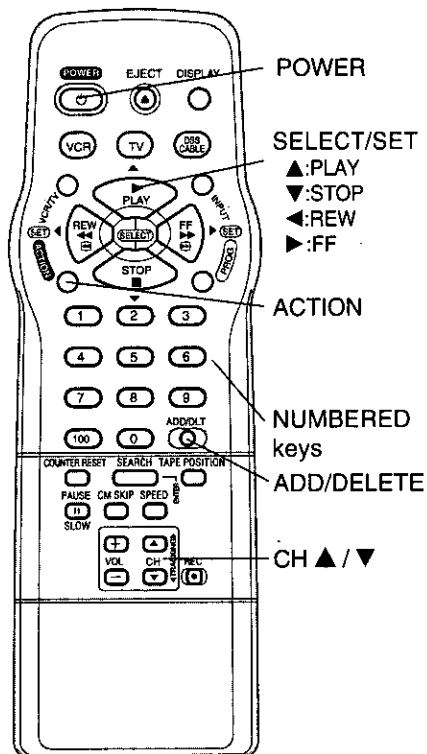
PLEASE TUNE YOUR TV TO
CH 4.
    
```

After 3 seconds

```

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

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



## Add or Delete a Channel

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

```

CHANNEL 08 ADDED
    
```

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

```

CHANNEL 08 DELETED
    
```

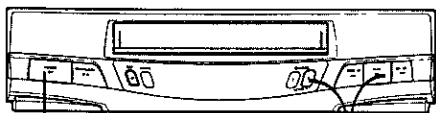
Reset Language, Channels, Clock, VCR's Output Channel

# VCR & Cassette Information

## Reset all VCR Memory Functions

Use when moving VCR to new location, or if a mistake was made in the One Time VCR Setup section.

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



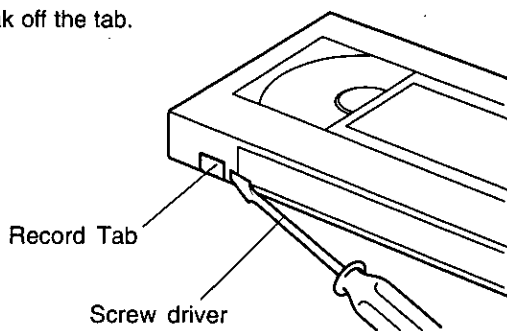
**1** Turn VCR Power on.

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

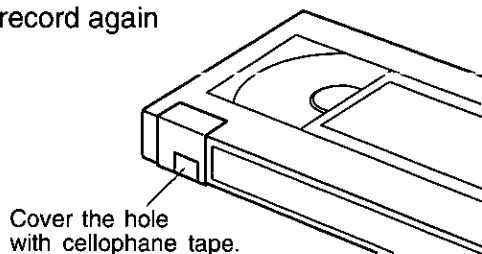
**3** Do "One Time VCR Setup" steps on page 6.

## Prevent Accidental Tape Erasure

Break off the tab.



To record again



## DST (Daylight Saving Time)

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

### Spring (First Sunday in April)

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

### Autumn (Last Sunday in October)

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

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

## Record/Playback Time

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

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



## Head Cleaning

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

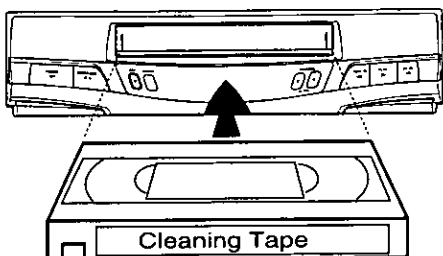
### Video Head Clog Sensor

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

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

END:PLAY KEY

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



- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 29.)

## Cleaning the VCR

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

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

## Specifications

<b>Power Source:</b>	120 V AC, 60 Hz
<b>Power Consumption:</b>	<b>Power On</b> Approx. 18 watts <b>Power Off</b> Approx. 3.3 watts
<b>Video Signal:</b>	EIA Standard NTSC color
<b>Video Recording System:</b>	2 rotary heads helical scanning system
<b>Audio Track:</b>	1 track (Normal)
<b>Tuner:</b>	
<b>Broadcast Channels:</b>	VHF 2-13, UHF 14-69
<b>CABLE Channels:</b>	Midband A through I (14-22) Superband J through W (23-36) Hyperband AA-EEE (37-64) Lowband A-5-A-1 (95-99) Special CABLE channel 5 A (01) Ultraband 65-94, 100-125
<b>Operating Temperature:</b>	5 °C~40 °C (41 °F~104 °F)
<b>Operating Humidity:</b>	10 %-75 %
<b>Weight:</b>	2.9 kg (6.4 lbs.)
<b>Dimensions:</b>	380 (W) x 93 (H) x 250 (D) mm 14-15/16" (W) x 3-11/16" (H) x 9-3/4" (D)

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

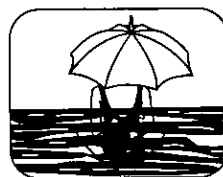
## Features for a Quality Picture

### Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

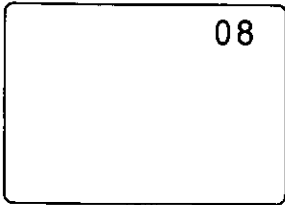
### Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise. Press CH (TRACKING) ▲ / ▼ buttons on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again.



# On-Screen Displays (OSD)

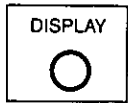
## Function & Channel Display



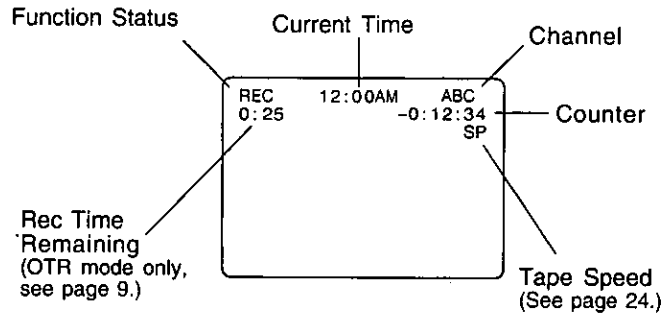
When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters.

## VCR Status & Clock Display

To display or remove the overlay at right.



Press DISPLAY.



## Blank Tape/ No Video Signal Indication

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 21) set to OFF, the TV screen will turn solid blue.

## Warning and Instruction Displays

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

OSD	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH VCR CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY...	6	TO CANCEL TIMER REC PUSH POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)	12
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording and the Clock is not set...	12	VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL  END: PLAY KEY	If head cleaning becomes necessary while playing back a tape...	25
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set...	12	VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode...	20
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab...	24	REMOTE CONTROL IS SET TO CABLE/DSS MODE  USE VCR : VCR KEY USE TV : TV KEY	If you press any invalid keys on the remote while in CABLE/DSS mode...	14 15 20
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted...	8 9	REMOTE CONTROL IS SET TO TV MODE  USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press any invalid keys on the remote while in TV mode...	14 15 20

# Before Requesting Service

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

Power	Correction
No power...	<ul style="list-style-type: none"> <li>• Completely insert Power Plug into an AC outlet.</li> <li>• Set POWER button to ON.</li> <li>• Make sure power source is active.</li> </ul>
Recording & Playback	Correction
TV program cannot be recorded...	<ul style="list-style-type: none"> <li>• Check connections between VCR, external antenna, and TV.</li> <li>• Check hook up selection. (P.4-5)</li> <li>• Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.22])</li> <li>• Make sure cassette record tab is intact. (P.24)</li> </ul>
Timer recording cannot be performed...	<ul style="list-style-type: none"> <li>• Confirm that clock is set to current time and date.</li> <li>• Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.</li> <li>• Set recording start/stop times correctly. (P.12)</li> <li>• Make sure POWER button is set to OFF. (P.12, 13)</li> <li>• Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during, a Timer Recording, even after power is restored.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks...	<ul style="list-style-type: none"> <li>• Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (P.6) or select LINE.</li> <li>• Set VCR/TV selector to "VCR."</li> <li>• Adjust TRACKING control in either direction. (P.25)</li> <li>• Try Head Cleaning. (P.25)</li> </ul>
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"> <li>• Set TV's Vertical Hold Control to MANUAL, then adjust.</li> </ul>
VCR cannot be controlled...	<ul style="list-style-type: none"> <li>• Make sure VCR LOCK is set to off. (P.20)</li> <li>• Make sure remote is in proper mode. (P.14)</li> <li>• Make sure Timer Record is not in progress.</li> </ul>
Remote Control	Correction
VCR cannot be remote controlled...	<ul style="list-style-type: none"> <li>• Aim Remote Control directly at remote sensor on VCR. (P.34)</li> <li>• Avoid any object blocking signal path.</li> <li>• Check remote batteries. (P.4)</li> <li>• Make sure VCR LOCK is set to off. (P.20)</li> <li>• Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
ACTION and PROG buttons cannot be used...	<ul style="list-style-type: none"> <li>• Press VCR button for VCR mode. (P.14)</li> <li>• Check remote Batteries. (P.4)</li> </ul>
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none"> <li>• Set VCR/TV selector to "TV." (P.9)</li> <li>• Make sure proper signal source is selected.</li> </ul>
Video cassette cannot be inserted...	<ul style="list-style-type: none"> <li>• Insert the cassette with window side up; record tab facing you.</li> <li>• Insure no other tape is inside unit.</li> </ul>
Video cassette cannot be removed...	<ul style="list-style-type: none"> <li>• Completely insert Power Plug into AC outlet.</li> </ul>
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none"> <li>• Make sure cassette rec tab is intact. (P.24)</li> </ul>
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none"> <li>• To enable Quick play mechanism, the cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.</li> </ul>
The top of the playback picture waves back and forth excessively...	<ul style="list-style-type: none"> <li>• Because VCR playback signal is not as stable as off-the-air TV signal, top of TV screen may be bent or unstable during playback. Slowly turn TV horizontal Hold control to correct. If your TV has no horizontal Hold control or adjusting control is ineffective, contact your nearest TV service center.</li> </ul>

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

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

# Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:  
**1-800-211-PANA (7262)**, Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm, EST.

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

## Accessory Purchases:

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

## Factory Servicenters Locations

### CALIFORNIA

6550 Katella Avenue  
 Cypress, CA 90630

800 Dubuque Avenue  
 S. San Francisco,  
 CA 94080

20201 Sherman Way  
 Suite 102  
 Canoga Park, CA 91306

3878 Ruffin Road  
 Suite A  
 San Diego, CA 92123

### COLORADO

1640 South Abilene Street  
 Suite D  
 Aurora, CO 80012

### FLORIDA

3700 North 29th Avenue  
 Suite 102  
 Hollywood, FL 33020

### GEORGIA

8655 Roswell Road  
 Suite 100  
 Atlanta, GA 30350

### ILLINOIS

9060 Golf Road  
 Niles, IL 60714

1703 North Randall  
 Road  
 Elgin, IL 60123

(Pick-up / Drop-off only)

### MARYLAND

62 Mountain Road  
 Glen Burnie, MD 21061

### MASSACHUSETTS

60 Glacier Drive  
 Suite G  
 Westwood, MA 02090

### MICHIGAN

37048 Van Dyke Avenue  
 Sterling Heights, MI 48312

### MINNESOTA

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

### OHIO

2236 Waycross Road  
 Civic Center Plaza  
 Forest Park, OH 45240

### PENNSYLVANIA

2221 Cabot Blvd. West  
 Suite B  
 Langhorne, PA 19047

Chartiers Valley  
 Shopping Center  
 1025 Washington Pike  
 Bridgeville, PA 15017

### TENNESSEE

3800 Ezell Road  
 Suite 806  
 Nashville, TN 37203

### TEXAS

7482 Harwin Drive  
 Houston, TX 77036

13615 Welch Road  
 Suite 101

Farmers Branch,  
 TX 75244

### WASHINGTON

20425-84th Avenue  
 South  
 Kent, WA 98032

### HAWAII

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

## Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicer:  
 Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985  
 Phone (787)750-4300 Fax (787)768-2910

Before Requesting Service/  
 Service Center List

# Warranty

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

Panasonic Sales Company,  
Division of Matsushita Electric of Puerto Rico, Inc.  
AVE. 65 de Infantería, Km. 9.5  
San Gabriel Industrial Park  
Carolina, Puerto Rico 00985

## PANASONIC Video Products Limited Warranty

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

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

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

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

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

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

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

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

#### LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

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

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

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

warvid 10/20/97

## Para ajustar el idioma, canal y reloj

### 1 Encienda el televisor y la videgrabadora.

Presione POWER.

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

### 2

#### Visualización de SELECCIÓN DE IDIOMA.

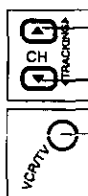
Esta visualización aparece sólo cuando realice la configuración por primera vez.

#### Seleccione el idioma.

```

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

TO CHANGE VCR'S OUTPUT
CH, PUSH ACTION KEY.
    
```



para Inglés (ENGLISH)

para Español (ESPAÑOL)

para Francés (FRANÇAIS)

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

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

Luego, sintonice el TV en el CH4.

Presione ACTION

```

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

Presione ACTION

```

PLEASE TUNE YOUR TV TO
CH 4.
    
```

Después de 3 segundos

- Sintonice siempre el TV a este canal para monitorizar la video grabadora.
- Si utilizó la conexión del conector audio/video, sintonice el TV a su entrada de video.
- Si se ajusta el idioma equivocado, realice los pasos de "Reajuste de todas las funciones de memoria de la video grabadora" en la página 24.

### 3 FIJACION AUTO. (CA/RELOJ)

CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

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

Presione CH▲.

FIJACION AUTOMATICA DEL RELOJ EN PROCESO

AUTOPROGRAMACION EN PROCESO

#### Caso 1 (Ajuste terminado)

```

1/ 4/2000 MAR 12:00PM
HORA VERANIEGA:ACT
CANAL FIJADO : CA 02
    
```

FIJACION AUTOMATICA COMPLETO

TERMINAR:OPRIMIR CH UP

Presione CH▲ para salir.

#### Caso 2 (Ajuste sin terminar)

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO

OPRIMIR ACTION PARA FIJAR EL RELOJ

### Caso 2 El ajuste del reloj es incompleto.

#### Ajuste el reloj manualmente.

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

## Ajustar de nuevo el reloj

### 1 Presione ACTION para exhiba el menú.

```

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

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

### 3 FIJAR RELOJ

```

FIJACION AUTOMATICA
MANUAL
AJUSTE ZONA HORA : 0
ELEGIR :▲▼
FIJAR :►
TERMINAR:ACTION
    
```

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

```

FIJAR RELOJ/ / \ / \ /
1/ 4/2000 MAR 12:00PM
VERANO:ACT/ / \ / \ /
ELEGIR HORA
ELEGIR :▲▼
FIJAR :◀►
TERMINAR:ACTION
    
```

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

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



## Operaciones básicas para la reproducción

### 1 Inserte un casete.

- La videograbadora se enciende automáticamente.

### 2 Presione PLAY.

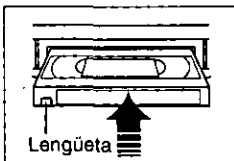
- O, si el casete no tuviera la lengüeta de grabación (véase la página 24), se inicia la reproducción automática.

- Para encontrar una escena en particular  
Búsqueda hacia adelante ---> Presione FF.  
Búsqueda hacia atrás ---> Presione REW.
- Para ver una imagen fija (congelada) ---> Presione PAUSE/SLOW.
- Para ver imágenes cuadro a cuadro ---> Presione PAUSE/SLOW en el modo de imagen fija.
- Para ver en cámara lenta ---> Mantenga pulsado el botón PAUSE/SLOW en el modo de imagen fija.
- Para parar ---> Presione STOP.
- Para hacer avanzar la cinta rápidamente ---> Presione FF
- Para rebobinar la cinta ---> Presione REW.
- Para expulsar la cinta ---> Presione STOP/EJECT en el videograbadora.

## Operaciones básicas para la grabación

### 1 Inserte un casete.

- La videograbadora se enciende automáticamente.



### 2 Seleccione el canal.

- Presione CH ▲▼ o las teclas numéricas correspondiente.

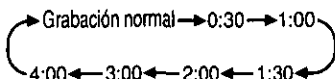
### 3 Seleccione la velocidad de grabación.

- Presione SPEED.
- SP = Reproducción estándar,
- LP = Larga duración,
- SLP = Supertarga duración.

### 4 Comience la grabación.

- Presione REC.
- Presione PAUSE para hacer una pausa en la grabación en progreso.

- Para parar ---> Presione STOP.
- Grabación de un toque  
Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).
- La videograbadora termina la grabación a una hora programada.

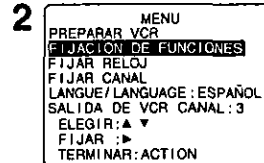


## Programación fácil para la grabación con temporizador

### 1 Exhiba el menú. Presione ACTION.\*

### Exhiba la pantalla de la programación.

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



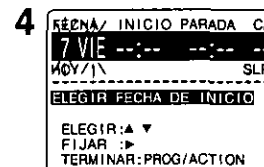
### Exhiba "FIJACION DE FUNCIONES."

- 1) Presione ▲▼ para seleccionar.
- 2) Presione ► para exhibir.



### Exhiba "TEMPORIZADOR."

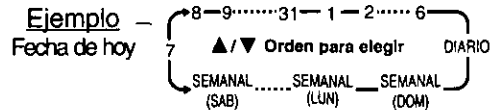
- 1) Presione ► para exhibir.
- Si ya existe un programa en la memoria, presione ▲▼ y ► para seleccionar un número de programa sin usar.



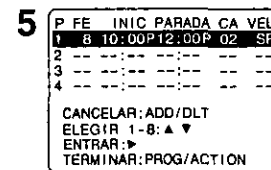
### Ajuste la fecha de grabación.

- 1) Presione ▲▼ para seleccionar.
- 2) Presione ► o ◀ para ajustar.

- 1-31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
- SEMANA = a la misma hora una vez a la semana



- Repita el paso 4 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP).



### Termine el programa.

- 1) Presione PROG (o ACTION).
- Para introducir más programas.  
Presione ▲▼ y ► para seleccionar y ajustar el número de programa en blanco. Luego repita los pasos 4 y 5.
- 2) Presione PROG (o ACTION) para salir.



### Grabación con temporizador.

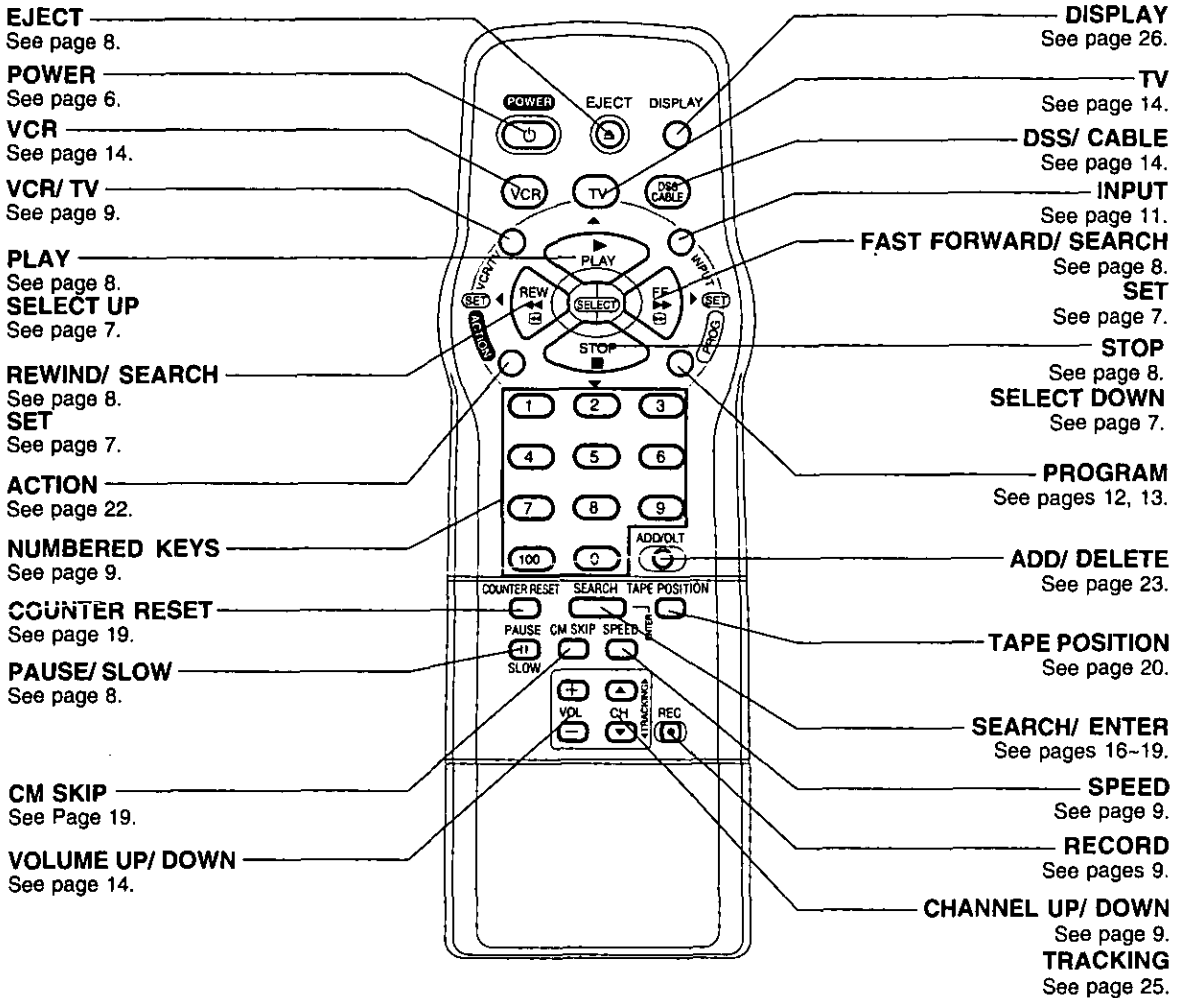
- Presione POWER para apagar.

### Pantalla multifuncional

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

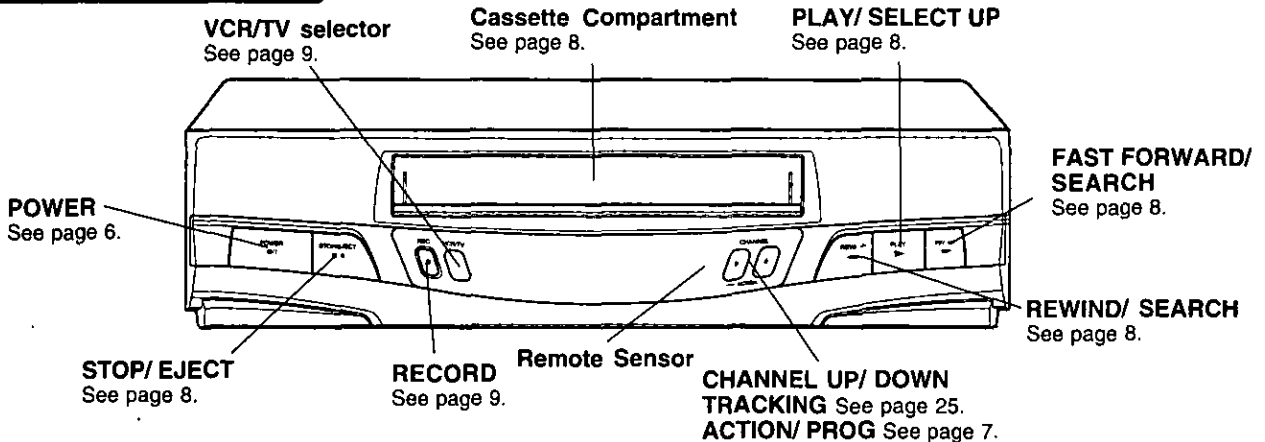
# Location of Controls

## Remote control Buttons

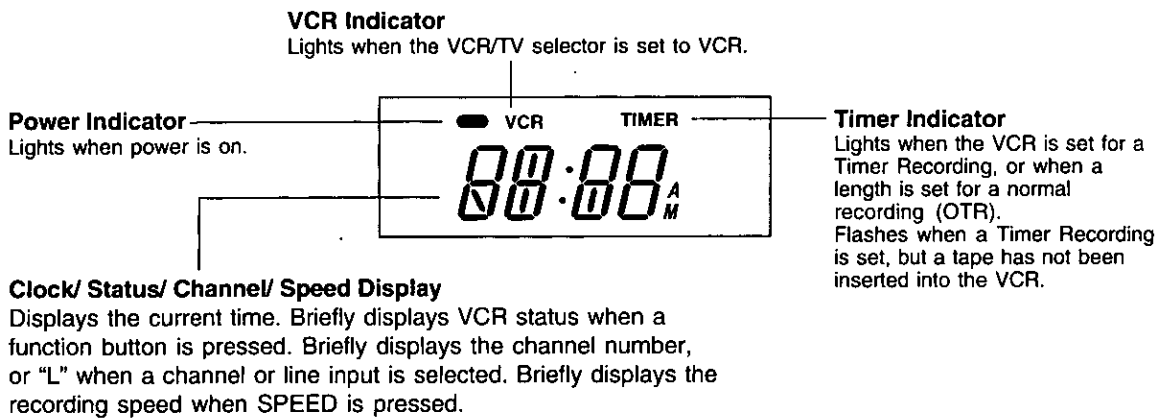


**EJECT button:** When EJECT is pressed, the tape is ejected from Cassette Compartment.  
If EJECT is pressed during recording, the VCR will not respond to the command.

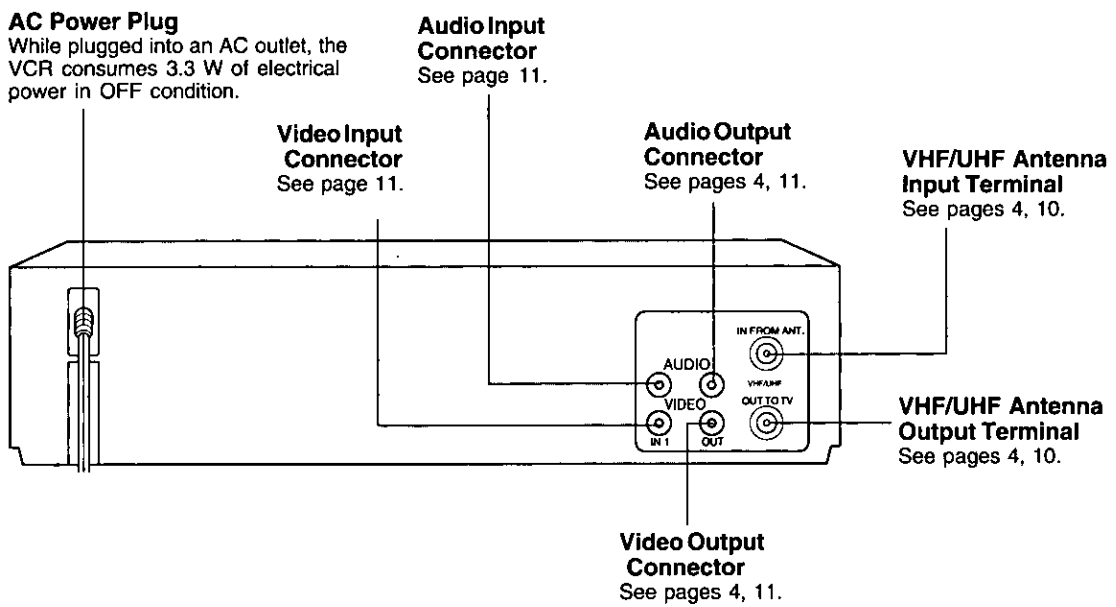
## Front View of the VCR



## Multi Function Display



## Rear View of the VCR

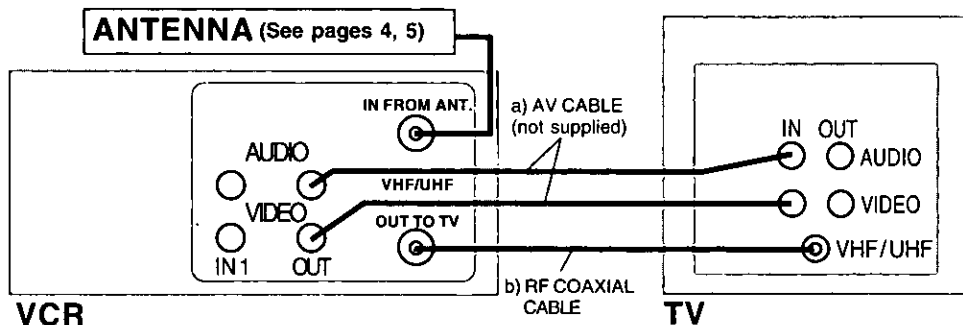


Location of Controls

# Quick Use Guide

## 1 Make all connections (page 4).

Connect VCR and TV with AV Cable (not supplied) or RF Coaxial Cable (supplied) as shown below. To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO."



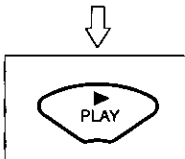
- Notes**
- 1) While connection b) (above) is sufficient, connection a) offers better sound and picture.
  - 2) For both connections a) and b) proceed as follows:
    - To use VCR : VCR Power on, set TV to VIDEO.
    - To watch TV : VCR Power off, select channel on.
  - 3) When using connection b) (see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

## Playback a Tape

### 2 Play your Tape.



Insert a tape



Press **PLAY**  
(Start playback)

- Or, if tape has no record tab, auto playback begins.

## Record on a Tape

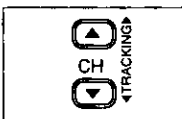
### 2 Do "One Time VCR Setup" on page 6.

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

### 3 Record on a Tape.



Insert a tape  
with Record Tab



Press **CH Up/Down**.  
(Select Channel)



Press **SPEED**.  
(Change speed)



Press **REC**.  
(Start Recording)