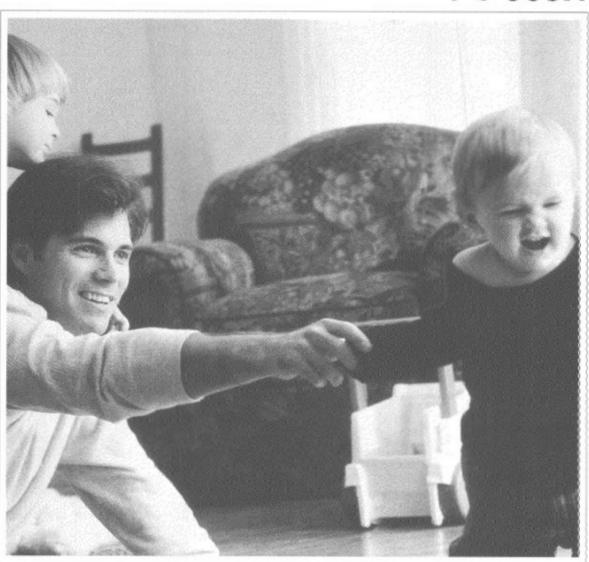
Video Cassette Recorder



Panasonic VHS

Operating Instructions

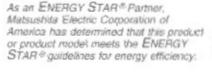
MODEL PV-966H



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.























PLAY

Changing Time Stamp Data

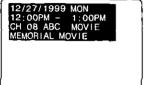
You may change the Date, Time, Channel, Category, and Notes.



Display Time Stamp Data.

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

T 000 O



Display TIME STAMP EDIT.



Press PROG while the data is displayed in Playback mode.

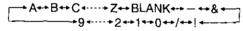
TIME STAMP EDIT ---12/27/1999 MON 12:00PM = 1:00 DATE 1:00PM TIME ;

CH : 08 ABC
CATEGORY : MOVIE
NOTES: MEMORIAL MOVIE----SELECT: ▲ ▼ KEY SET : ◀ ► KEY :PROG KEY

Change Time Stamp Data.



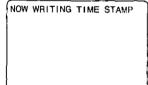
- 1) Press ▲▼ to select.
- 2) Press ▶ to enter and continue.
- Characters in NOTES will change in the following order.



3) Repeat 1) and 2) as needed.

To make corrections,

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

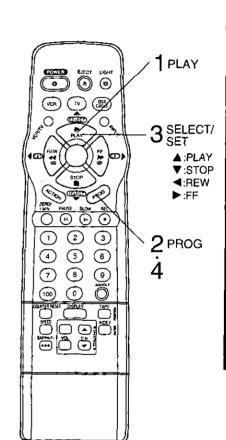


Write the new data.



Press PROG.

When data is written, VCR returns to Stop mode.



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

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,

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 manufacture's service literature to insure that the video unit is in safe operating condition.

Safety Precautions

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





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



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

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Before Using

Basic Connection

Congratulations

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

Date of Purchase	
 Dealer Purchased From_ 	
Dealer Address	
Dealer Phone No	

• Model No. _____PV-966H _____

Accessories

☐ Batteries 2 "AA" ☐ Remote Control VSQS1596

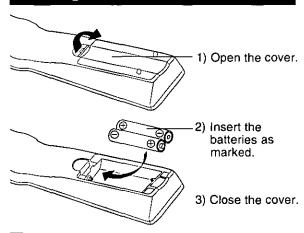


☐ RF Coaxial Cable VJAS0196



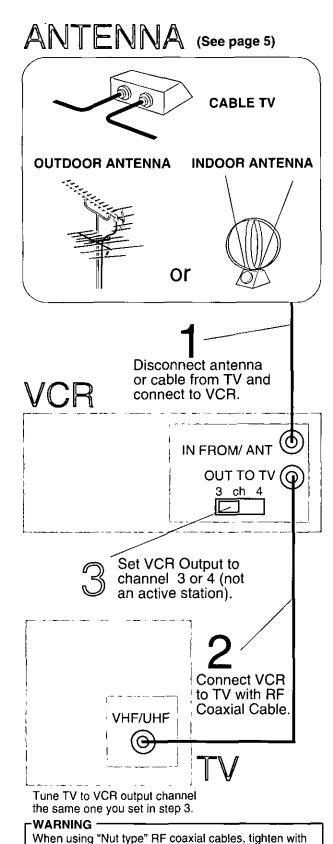
To order accessories, call toll free 1-800-332-5368.

Loading the Batteries



■ Battery replacement caution

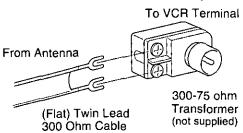
- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.



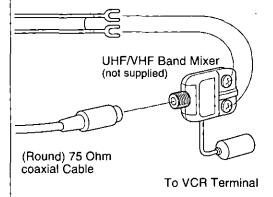
fingers only. Overtightening may damage terminals.

Between ANT. and VCR

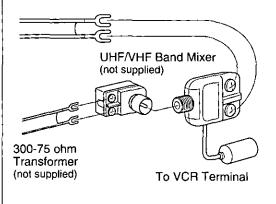
■ Case 1: Twin Lead Cable Only



■ Case 2: Twin Lead & Coaxial Cables



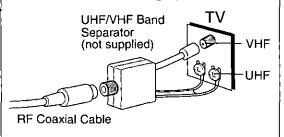
Case 3: Two Twin Lead Cables



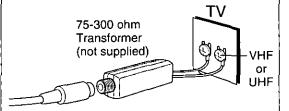
· If your TV has both post and plug-type VHF terminals, the post connection is recommended to minimize signal loss.

2 Between VCR and TV

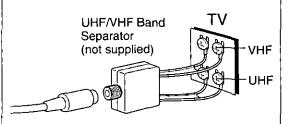
■ Case 1: Screw & Plug Type Terminal



■ Case 2: Screw Type Terminal

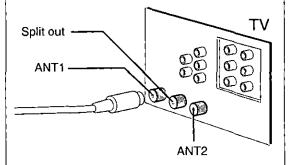


■ Case 3: Double Screw Type Terminal



■ Case 4: Complex TV Terminal

TERMINALS ON BACK OF TV SET

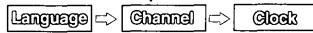


Connect to one of the ANT terminals and select the same antenna number on the TV.

One Time VCR Setup

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

Process of Setup



1 POWER

Turn the TV and VCR on. Press POWER.

Rear of VCR

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

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

3



CH3 or CH4

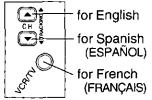
PUSH VCR CH ▲: ENGLISH

OPRIMIR VCR CH ▼:ESPAÑOL

APP. VCR/TV : FRANÇAIS

(TV Screen)

Select the language.



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

4

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

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



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

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

5

SELECT HOOKUP CABLE/DSS BOX►VCR►TV

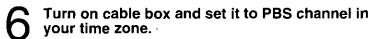
CABLE/DSS BOX OUTPUT CH

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

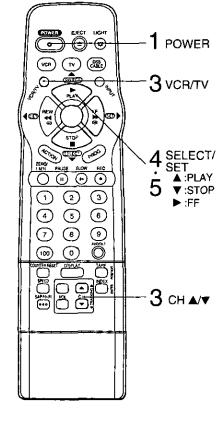


Select cable box or DSS receiver output channel.

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



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



IMPORTANT NOTE FOR AUTO CLOCK SET

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

CHANNEL/CLOCK AUTO SET

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

PLEASE PUSH CH UP KEY

Start Channel Auto Set and Clock Auto Set.



Press CH A.

CH AUTO SET PROCEEDING

AUTO CLOCK SET

PROCEEDING (Setup completed) Case 1

1/ 4/2000 TUE 12:00PM

SETTING : CH 02 AUTO CLOCK SET COMPLETED

END : PUSH CH UP KEY



Press CH A to exit.

SELECT/

▲:PLAY

▼:STOP

■:REW

▶:FF

ACTION

CH A

SET

AUTO CLOCK SET IS INCOMPLETE

Case 2

PUSH ACTION TO SET CLOCK

(Setup incomplete)

Clock Setup incomplete. Set the clock manually.



1) Press ACTION.

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

> (*) **(**(a))

> > (355)

(-) \odot

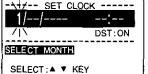
6

(2)(3)

(5)

(8) (O)

DST:ON



► KEY SET :ACTION KEY



SET : ◀ ▶ KEY START : ACTION KEY



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

To Make Corrections,

repeatedly press **◄** ► to move to error, then correct.



- 4) Press ACTION. (Clock starts.)
- To exit this mode, press ACTION again.

Notes

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

Using **▲▼**◀▶ keys

You can also operate the menu screen using VCR buttons.

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

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



REW : FF

▼:STOP



On Remote

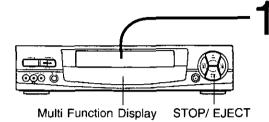




Playback a Tape

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

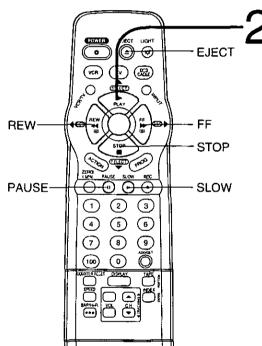
 TV and VCR are plugged in.
- TV is turned on and set to the VCR channel (CH 3 or 4).
- ☐ Remote is in VCR mode.





Insert a cassette.

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





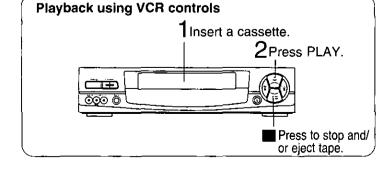
Press PLAY.

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

 (To release, press PAUSE.)
- For Frame by Frame picture --> Press SLOW in Still mode.
 (To release, press PAUSE.)

Notes

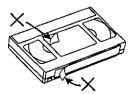
- To reduce picture noise, see "Manual Tracking Control" on page 35.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.
- To stop --> Press STOP.
- To rewind tape --> Press REW in Stop mode.
- To fast forward tape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



Note

To prevent tape jam

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



Record On a Tape

*Important:

0000 Ø

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

Multi Function Display

(*)

VCR/TV

STOP

PAUSE

SPEED

(200

É

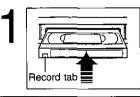
(9)

(2)

0

Check list before you begin.

- All connections are made.
- TV is turned on and set to the VCR channel (CH 3 or 4).
- Cassette with record tab in place.
- Remote in VCR mode.



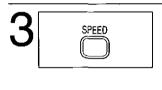
Insert a cassette.

VCR power comes on automatically.

Select Channel.

Press CH ▲/▼* or NUMBERED keys.

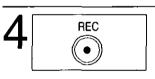
- To select "LINE", see page 23.
- To select channels over 100, first press 100 key, then enter remaining two digits.



Select Recording speed.

(See page 34.) Press SPEED.

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



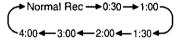
Start Recording.

Press REC.

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

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

• The VCR turns itself off at a preset time.



Record One Program While Watching Another

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

■ Selecting Channel at the VCR

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

You can operate on the VCR 2 1 VCR/TV 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.

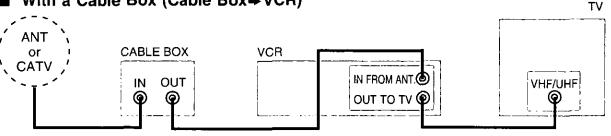
Advanced Connections

CATV Connection

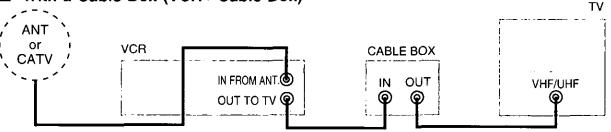
Make sure to tune TV to VCR output channel the same one you set on back of VCR: CH3 or CH4.

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

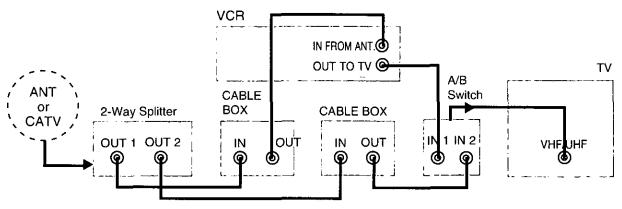




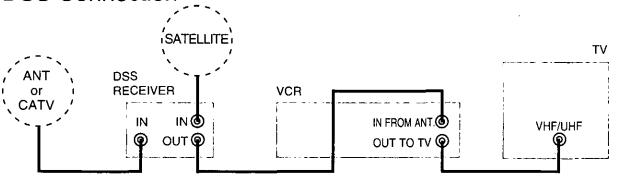
With a Cable Box (VCR→ Cable Box)



With Two Cable Boxes



DSS Connection



You Can

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

You Cannot

other than the one

selected for any

type of recording.

channel unless you select it at the cable box.

view channel

do a Timer

recording of a

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

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

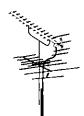
NOTE:

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

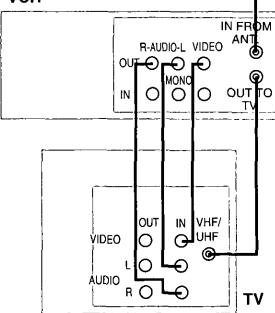
- view channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.

Audio/Video Connections

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



VCR



Note

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

Use the $\mbox{\it L}$ Audio IN jack for proper sound reproduction when connectiong to a monaural TV.

Note to CABLE system installer:

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

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

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the [VH5] mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

Timer Recording

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

1



Display SET PROGRAM.

Press PROG.*

You can also display Program screen from Menu.

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

END

2



TIMER PROGRAM

SELECT: ▲ ▼ KEY

: PROG KEY

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

Display Program screen.



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

3



Set the recording DATE.



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

Example 78-9·······31-1-2·····6 DAILY Selection Order DAILY WEEKLY WEEKLY SOLON (SUN)

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

4



▶ KEY

Make the notes.

If not wanted, go to step 5.



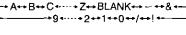
- 1) Press ▲ to begin.
- 2) Press ▲▼ to select.
- Press ► to set.
- Characters will change in the following order.

DATE START STOP CH

8 SAT 10:00P 12:00P 02

TODAY
CATEGORY:MOVIE SP
NOTES:
MAKE NOTES
SELECT: A KEY

:PROG/ACTION KEY



 Press PROG (or ACTION) to end.

Continued on the next page.

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

Using ▲▼◀▶ keys You can also operate the menu so

You can also operate the menu screen using VCR buttons.

Check list before you begin.

TV and VCR are plugged in and turned on. VCR/TV selector is set to "VCR." Clock is set to correct time.

Record tab in place. (See page 34.)

€

3

6

9

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(CARE

TV.

(5)

(8)

(100) (O

POWER

SELECT/

Ĩ:PLAY

▼:STOP

REW

▶:FF

PROG

ACTION

SET

All connections are made.

Remote in VCR mode.

0

(VCR

(See pages 4~5.)

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





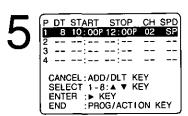
▲:PLAY ▼:STOP ◀:REW

▶ : FF

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

-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.



End the program.



 Press PROG (or ACTION).

To Enter More Programs

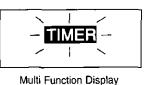
Press ▲▼ to select, and ▶ to display a blank program number. Then repeat steps 3 and 4.

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

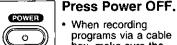
To cancel Timer Recording (Recording is in progress)

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

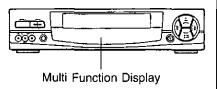




Set the timer.



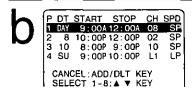
 When recording programs via a cable box, make sure the cable box is left ON and tuned to the desired channel.



Review, Replace or Clear Program Contents:

(Recording is not in progress)

Repeat steps 1~2 on page 12. • If necessary, press POWER ON.



Select program.



 Press ▲▼ to select number.

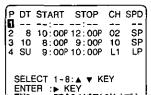
To Replace program...





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

To Clear program...





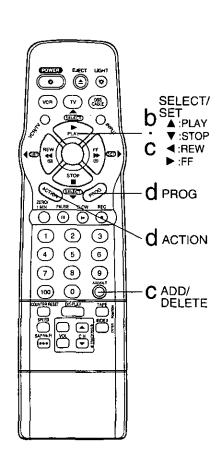
1) Press ADD/DLT.





End the program.

- 1) Press PROG (or ACTION).
- If there are programs, press POWER OFF.



Timer Recording Using VCR Plus+ System

VCR Plus+ System is ... **Process of Recording** a feature that allows you to set most items of a timer recording by simply entering a special code │Setup │⇔∫Programming ©annædion|⊏> number (PlusCode programming number) found in TV GUIDE and selected newspaper TV listings. Choose your connection type from the following diagrams Cable box → VCR → TV connection CABLE BOX **VCR** IN FROM ANT. OUT **OUT TO** Set up on page DSS box →VCR →TV connection ON AIR or CATV ANT I T۷ DSS RECEIVER **VCR** IN FROM (6) IN 🖲 ANT. . IN O OUT 🕡 out to Programming on page VCR→TV connection T٧ VCR IN FROM ❷ANT:. OT TUO TV Set up on page VCR → Cable box → TV connection TV CABLE BOX VCR **IN FROM** 🖲 ANT. IN OUT **φ**ουτ το**φ**

Cable Box Setup

Process of Recording

Connection ⇒ Samp ⇒ Programming

1



Display menu.

Press ACTION.*

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
1010MA/LANGUE: ENGLISH
SELECT: A ▼ KEY

. ► KEY

ACTION KEY

ACTION KEY

SET

END

SET

END





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

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

Select CABLE/DSS BOX SET UP.



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

SELECT HOOKUP

CASILE/DSS BOXXVCR>TV

VCR>TV

VCR>TV

SELECT: ▲ ▼ KEY

:► KEY :ACTION KEY

Select your hookup method.



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

SELECT HOOKUP
CABLE/DSS BOX VCR TV

CABLE/DSS BOX OUTPUT CH

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

Select cable box or DSS receiver output channel.



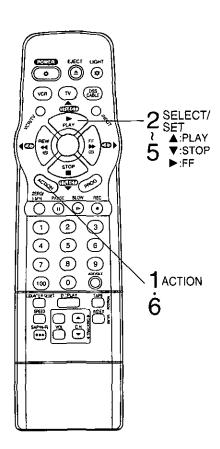
- Press ▲▼ to select.
- 2) Press ► to enter.
- If necessary, refer to your Cable Box/DSS manual.
- If you are using Audio/Video jack connections, select and set "VIDEO OUT" as output channel.





End setup.

Press ACTION twice.



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Timer Recording Using VCR Plus+ System (continued)

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

VCR Plus+ System Channel Setup

· At first, do Channel Setup Preparations below right.



Display menu. Press ACTION.*

----- MENII -----SET UP VCR SET UP FEATURE SET UP CHANNEL IDIOMA/LANGUE: ENGLISH SELECT: ▲ ▼ KEY ► KEY :ACTION KEY

Select SET UP CHANNEL.



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

SET UP CHANNEL ----ANTENNA : CABLE AUTO SET AUTU SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY : OFF
CABLE/DSS BOX SET UP
VGR Plus+ CH SET UP
SELECT: A V KEY SET ACTION KEY

Select VCR Plus+ CHANNEL SETUP.

Select VCR Plus+



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

GUIDE CH 01

VCR Plus+ CH SET UP CABLE CH SELECT: ▲ ▼ KEY ▶ KEY :ACTION KEY ËND

VCR Plus+ CH SET UP

CABLE CH



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

To make corrections,

■ KEY

: ACTION KEY

GUIDE CH

SELECT: ▲ ▼ KEY

02

SET

END

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



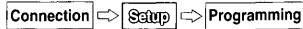
End setup.

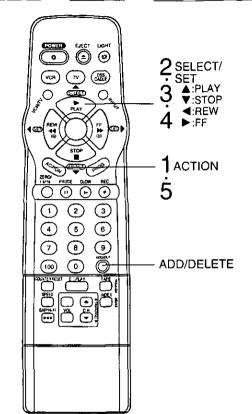
Press ACTION three times.

Notes

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

Process of Recording





Channel Setup Preparations

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

You will need the following:

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

EVANDLE ONLY

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

Check list before you begin.

The clock is set.

SET

□ VCR Plus+ System Setup is complete (see pages 14~16).

Process of Recording



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 \Box (2)

4

 $\overline{2}$ (B)

(5)

EJECT LIGHT

⇜ (CASE)

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(<u>3</u>)

6)

(9`

ă ĕ

POWER

SELECT/

SET A:PLAY

▼:STOP

d:REW

▶:FF

PROG

6 ACTION

ADD/

DELETE

3 NUMBERED keys



Display SET PROGRAM. Press PROG.

---- SET PROGRAM ----VCR Plus+ PROGRAM SELECT: ▲ ▼ KEY

▶ KFY PROG KEY Display VCR Plus+ screen.



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

VCR Plus+ ENTER PLUSCODE NUMBER 11 /| \ USING 0-9 KEYS To make corrections,

Enter PlusCode programming number. 1) Press



keys. 2) Press PROG to lock in the program.

Numbered

Enter record frequency.



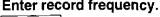
TO SELECT PUSH 1,2 OR 3

press

repeatedly to delete the



3) Press 1, 2, or 3 key to select program type.









Select Category.**



- Press ▲▼ to change.
- Press ► set.

Change record speed. Repeat 1) and 2).

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

If not wanted, go to step 6.

DT START STOP CH SPD DAY 9:00A12:00A 08 SP 8 10:00P12:00P 02 SP CANCEL: ADD/DLT KEY SELECT 1-8: ▲ ENTER : ► KEY KEY :PROG/ACTION KEY

End programming.

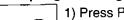


1) Press PROG

Press PROG (or ACTION) again to exit.



Multi Function Display



(or ACTION).

To cancel press ADD/DLT.

Set timer.



Press Power OFF.

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

Use normal Timer Recording steps if:

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

See page 13 to:

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

Important notes for DSS/Cable Box users

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

Notes

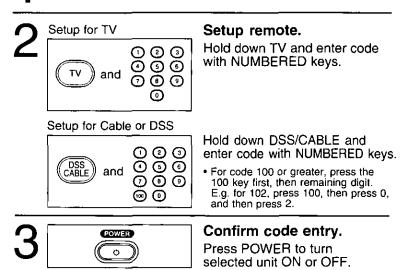
- Avoid overlapping program times.
- VCR PlusCode programming numbers can not be used to program the VCR to record DSS channels.
- · You can obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs approximately \$.95 per minute.

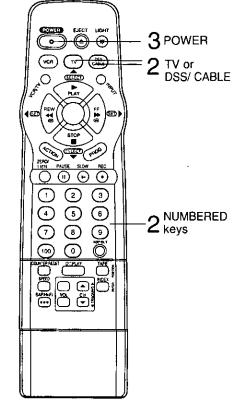
Multi-Brand Control Feature

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

Multi-Brand Control Setup

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





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.

· See table below for list of

controllable functions in each mode.

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

This table shows which buttons are available for each mode.

Available Buttons	1.00	TV	CABLE/ DSS
VCR	All Functions	VOL UP/DOWN	
TV	VCR/TV, PLAY, STOP EJECT, SAP/ Hi-Fi, DISPLAY, FF, REW, PAUSE, SLOW, REC, SPEED, ZERO/ 1MIN, COUNTER RESET	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS	VCR/TV, PLAY, STOP EJECT, SAP/ Hi-Fi, DISPLAY, FF, REW, PAUSE, SLOW, REC, SPEED, ZERO/ 1MIN, COUNTER RESET	VOL UP/ DOWN	POWER, ENTER, NUMBERED keys (except 100key), CH UP/ DOWN

Note

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

TV Brand Code Numbers		
GE 03	Sharp 06, 07 Sony 08 Toshiba 09 Sanyo 10	Mitsubishi 07, 13 Samsung 14

Cable Box Brand Code Numbers	
Archer 01, 05, 06, 44, 63, 91, 126	Quest
Cabletenna	Radio Shack 44, 51, 59, 75
Cableview 04, 30, 42, 44, 52, 63, 124, 126	RCA
Century 44, 51, 59, 75	Realistic
Citizen 04, 30, 42, 44, 52, 63, 124, 126	Recoton
Curtis	Regal 14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond 01, 44, 63, 91, 126	Regency
Drake	Rembran 01, 32, 39, 42, 44, 63, 126
Eagle 13, 20, 22, 26, 40, 58, 62, 107	Salora
Eastern28, 130	Samsung 05, 06, 32, 40, 42
GC Brand	Scientific Atlanta 08, 09, 53, 61, 87
Gemini04, 124	Sheritech27
General Electric01, 57	Signal26, 112
General Instruments 01, 02, 03, 04, 34, 55, 65, 67,	SL Marx 06, 32, 40, 42, 43, 44, 52, 63, 126
68, 83, 91, 115, 117, 118, 124	Spucer 16, 17, 97, 109
Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130	Standard Components 32, 39, 42, 44, 126
Hitachi31	Stargate 04, 06, 30, 32, 40, 42, 44, 52, 63, 124, 126
Jasco04, 124	Sylvania 19
Jerrold 01, 02, 03, 04, 34, 55, 65, 67,	Teknika 74
68, 83, 91, 115, 117, 118, 124	Telecaption77, 127
Macom 31	Teleview 06, 32, 40, 42
Magnavox26, 112	Texscan18, 19
Matsushita 16, 17, 97, 109	Tocom01, 33, 34, 42, 66, 91
Movietime 32, 38, 39, 40, 42, 44, 126	Toshiba36
NEC 32, 38, 40	Uniden Satelite 65
NOVAVISION	Unika 01, 44, 63, 91, 126
NSC 32, 38, 40	Universal42, 43, 44, 52, 63, 126
Oak 11, 46, 129	Videoway 07, 23, 50, 129
Oak Sigma 11, 46, 129	Vid Tech 64
Panasonic 16, 17, 97, 109	Vidter 64
Philips 07, 13, 20, 23, 24, 50, 128, 129	Viewstar 13, 20, 22, 26, 40, 58, 62, 107
Pioneer 05, 06	Zenith 07, 23, 50, 129
Pulsar 04, 30, 42, 44, 52, 63, 124, 126	

DSS Brand Code Number		
ToshibaHitachi/ Hughes		
Magnavox/ Uniden 1	94	 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

VHS Index Search System

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

Direct Access (For normal and /or timer recordings)

Go directly to desired recording.



Display SELECT SEARCH MODE.

Press INDEX.*

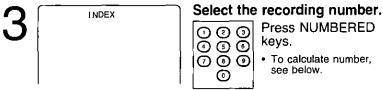
· If there are no timer recordings on the Program Index List, go to step 3.



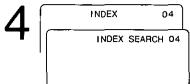
Display INDEX.



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



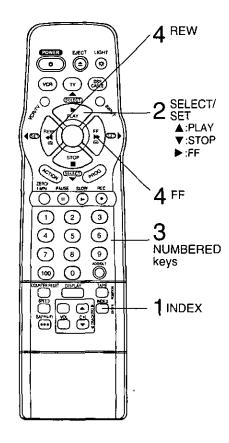
· To calculate number,



Start search.

Press FF or REW.

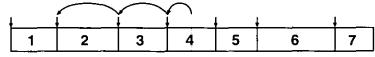
When search is finished, playback begins.



To Calculate Index Number

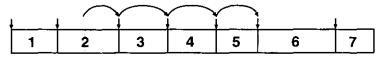
Example 1:

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



Example 2:

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



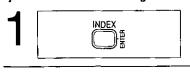
NOTE: Indicates start points of each recording.

Notes

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

Program Index Search (For timer recordings only)

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



Display SELECT SEARCH MODE. Press INDEX.

SELECT SEARCH MODE
INDEX SEARCH
PROGRAM INDEX SEARCH

Display PROGRAM INDEX.

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



Select the desired recorded program.



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

Index Scan (For normal and /or timer recordings)

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

a NDEX HALL

Display SELECT SEARCH MODE. Press INDEX.

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

SELECT SEARCH MODE

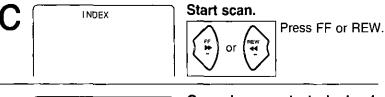
INDEX SEARCH
PROGRAM INDEX SEARCH

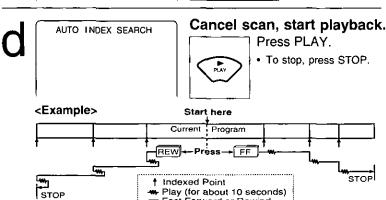
SELECT: A V KEY
SET : KEY

Display INDEX.

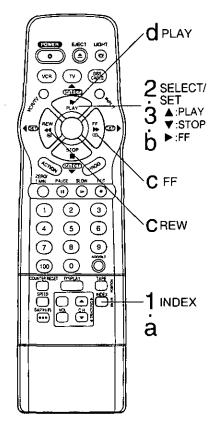


- 1) Press ▲▼ to select.
- 2) Press ► to display.





Fast Forward or Rewind



Auto Operation Functions

■ Auto Playback

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

■ Auto Rewind

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

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

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

■ Memory Rewind Off

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

Tape Operation (continued)

Repeat Play

Set to see a recording over and over.



Display menu.

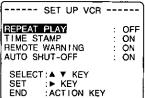
Press ACTION.*



Display SET UP VCR.



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



:► KEY

Set ON or OFF.



- Press ▲▼ to select "REPEAT PLAY."
- 2) Press ▶ to set.

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

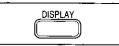


Return to normal screen.

Press ACTION twice.

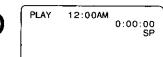
Zero Search

To quickly return to specific tape counter location.



Display Counter.

Press DISPLAY during playback.

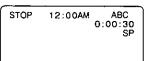


Reset to "0:00:00."



Press COUNTER RESET at the desired position.

Continue playback, rewind, or fast forward.



Return to "0:00:00."

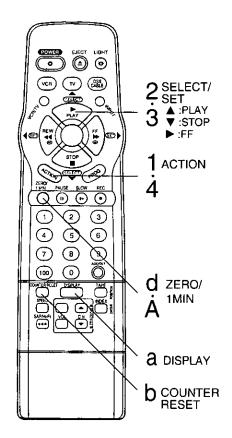


Press ZERO/ 1MIN in Stop mode.

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

*Important:

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



One Minute Skip

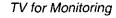
VCR skips over 60 seconds of recorded tape.

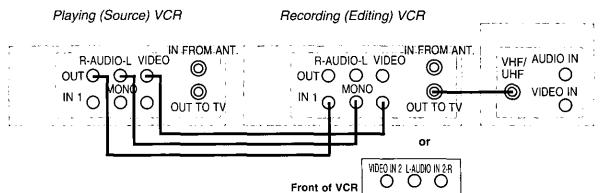


Press ZERO/ 1MIN in Play mode.

Copying Your Tapes (Dubbing)

Connections you'll need to make. (Choose front or rear connection.)



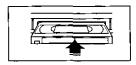


Playing (Source) VCR

Recording (Editing) VCR

(T) Our Occasion

Insert pre-recorded tape.



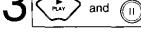
Insert blank tape with record tab.



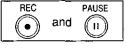


Select LINE mode.

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

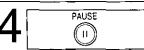


Put in Standby mode. Press PLAY, then PAUSE at starting point.

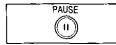


Put in Standby mode.

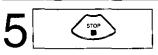
Press REC, then PAUSE immediately.



Start dubbing. Press PAUSE.



Start dubbing. Press PAUSE.



Note

Stop dubbing. Press STOP.



Stop dubbing. Press STOP.

■ To Monitor Dubbing on Your TV

PAUSE

- 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 <--> LINE1 <--> LINE2 Method 2: Press CH ▲/▼. Display will change as below.

Method 2: Press CH ▲/♥. Display will change as bel

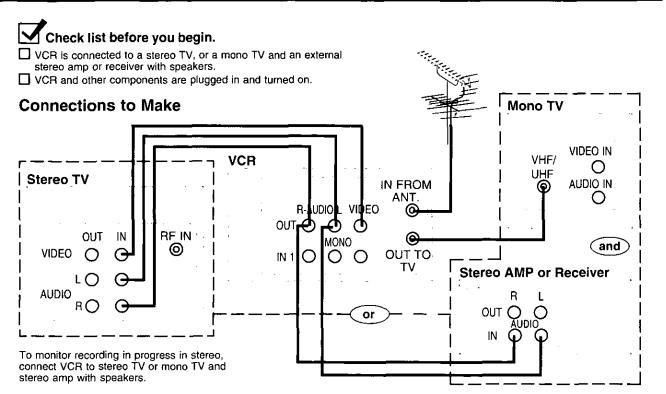
. "L1" or "L2" lights on Multi-Function Display (about 4

(CABLE) (TV)

- Dubbing tapes protected with Copy Guard will have poor quality results.
- sec.) when LINE1 or LINE2 is selected.
 LINE1: For rear audio/video connection. LINE2: For front audio/video connection.

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

MTS Broadcast/ VHS Hi-Fi Stereo System



Receivable Broadcast Types

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



Display the broadcast signal being received. Press DISPLAY.*

MTS Stereo and SAP broadcast

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

MTS Stereo broadcast

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

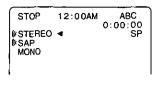
 If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.

SAP broadcast

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

MONO broadcast

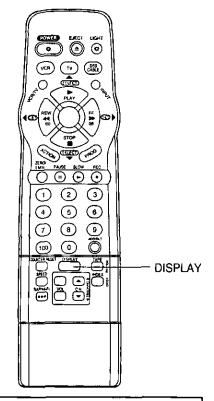
Normal monaural sound broadcast.



STOP	12:00AM	ABC 0:00:00
(*STEREO SAP MONO	•	SP

STOP	12:00AM	ABC 0:00:00
STEREO (*SAP MONO	•	SP

STOP	12:00AM	ABC 0:00:00
STEREO SAP		SP
MONO	•	



Equipped with dbx*-TV Noise Reduction for true MTS reproduction. dbx*-TV Noise Reduction is required for good stereo separation and audio fidelity. dbx* is a registered trademark, and is licensed by dbx* Technology Licensing.

When set to proper audio mode VCR can:

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

Audio Mode for Recording

1

SAP/Hi-Fi

Display audio mode.

Press SAP/ Hi-Fi.

SAP/Hi-Fi

2

(kSTEREO (kSAP ◀ MONO

Select desired mode.

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

The arrow indicates your selection.

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

3 Do a recording.
See page 9.

SIDE SIDE SON RECURSION OF STORY STO

Audio Mode for Playback

a Start playback. See page 8.

b

SAP/Hi-Fi

Display audio mode.

Press SAP/ Hi-Fi.

C

HIF! (L/R) ◀ H!F! (L) HIF! (R) NORMAL

The arrow indicates your selection.

Select desired mode.



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

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

Notes

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

Special VCR Features

Channel Caption

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

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

Preset Caption



Display menu.

Press ACTION.*



IDIOMA/LANGUE: ENGLISH SELECT: ▲ ▼ KEY

SET :► KEY :ACTION KEY

Display SET UP CHANNEL.



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

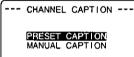


CABLE/DSS BOX SET UP VCR Plus+ CH SET UP SELECT: ▲ ▼ KEY : ► KEY SET END :ACTION KEY

Display CHANNEL CAPTION.



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

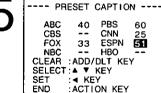


SELECT:▲ ▼ KEY :► KEY SET ACTION KEY END

Display PRESET CAPTION.



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



Assign preset captions.



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

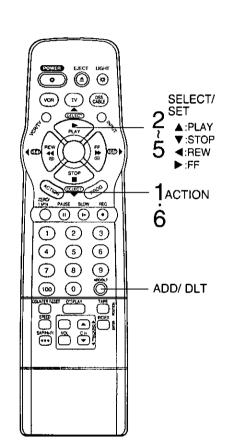
To make corrections,

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



End setup.

Press ACTION four times.



Manual Caption

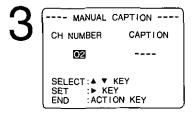
Do "Preset Caption" steps 1~3 on page 26.

CHANNEL CAPTION ---PRESET CAPTION
MANUAL CAPTION SELECT: ▲ ▼ KEY :► KEY SET :ACTION KEY END





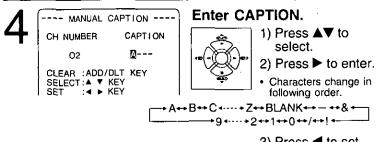
- 1) Press ▲▼ to select.
- Press ► to display.



Select channel number.



- 1) Press ▲▼ to select CH NUMBER.
- 2) Press ▶ to move cursor to the right.
- Channels already set and channels deleted from Channel Memory are not displayed.
- · You can set a total of ten channel captions.



Press ◀ to set.

Repeat steps 3 and 4 as desired.

To make corrections,

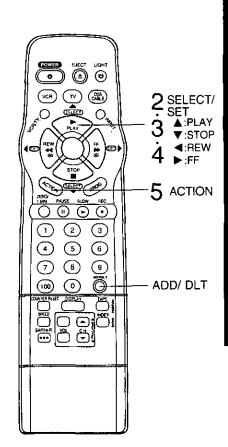
Press ▲▼ and ► to select the channel number, then press ▲▼ and ► to change, or ADD/ DLT to delete the caption.





End input.

Press ACTION four times.



Special VCR Features

Time Stamp Feature

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

Check list before you begin.

Clock is set to correct time. Record tab in place. (See page 34.)

0

②②

SELECT/

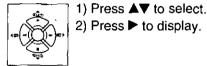


Display menu.

Press ACTION.*



Display SET UP VCR.



- Press ► to display.



Set ON or OFF.



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

When "OFF" is selected, the program data is written on the tape, but will not be displayed.



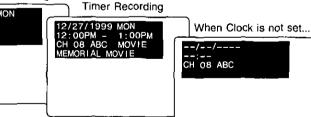
Return to normal screen.

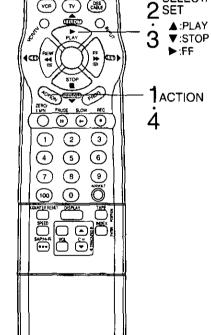
Press ACTION twice.

<Time Stamp Example>

One Touch Recording 12/27/1999 MON 12:00PM

08 ABC





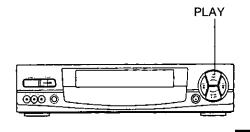
Changing Time Stamp Data

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



Display Time Stamp Data.

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





Display TIME STAMP EDIT.



Press PROG while the data is <u>displayed in</u> <u>Playback mode.</u>

TIME STAMP EDIT ---12/27/1999 MON 12:00PM - 1:00 08 ABC BY: MOVIE DATE : 1:00PM TIME : CATEGORY NOTES: MEMORIAL MOVIE----SELECT: ▲ ▼ KEY SET : ◀ ► KÉY END : PROG KEY

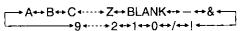
Change Time Stamp Data.



1) Press ▲▼ to select. Press ► to enter

and continue.

Characters in NOTES will change in the following order.



3) Repeat 1) and 2) as needed.

To make corrections.

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

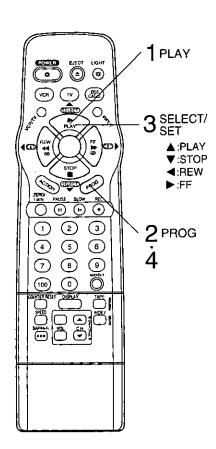
NOW WRITING TIME STAMP

Write the new data.



Press PROG.

When data is written, VCR returns to Stop mode.



Special VCR Features

Tape Position Display Feature

To find out the present tape position.

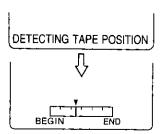
Tape position cannot be found for C-Cassette type and tape of less than 60 minutes.

1



Detect Tape Position.

Press TAPE POSITION.*



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

2



Return to normal screen.

Press TAPE POSITION.

Remote Warning ON/OFF Feature

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

a

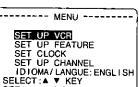


Display menu.

Press ACTION.

b

SET

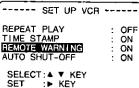


Display SET UP VCR.



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

C



:ACTION KEY

:► KEY

Set ON or OFF.



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

d



Return to normal screen.

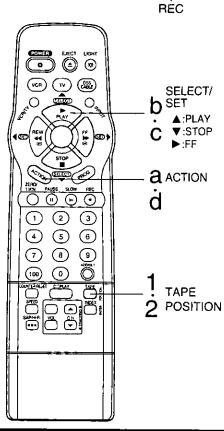
Press ACTION twice.

Check list before you begin.

☐ All connections are made. (See pages 4~5.)☐ VCR is plugged in.

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





VCR Lock Feature

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

VCR LOCK ACTIVATED

To turn ON:

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

VCR LOCK OFF

To turn OFF: Repeat above.

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

Weak Signal Display ON/OFF Feature

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

1



Display menu.

Press ACTION.

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

Display SET UP CHANNEL.



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

ANTENNA: CABLE
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY: OFF
CABLE/DSS BOX SET UP
VCR Plus+ CH SET UP
SELECT: A V KEY
SET: KEY



- 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.

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



Set ON or OFF.



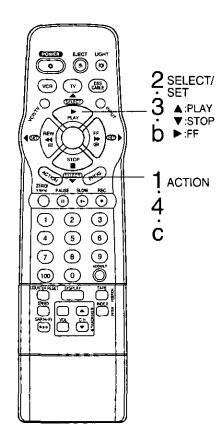
- 1) Press ▲▼ to select.
- 2) Press ► to set.

C



Return to normal screen.

Press ACTION twice.



Reset Language, Channels, Clock

1

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

:► KEY :ACTION KEY

----- MENU -----



Display menu.
Press ACTION.*

↑ Language

SET

END

 1) Press ▲▼ to highlight language item.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
ID IOMA/ LANGUE: ENGLISH
SELECT: A KEY
END : ACTION KEY

2) Press ▶ repeatedly.

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

For English

PREPARAR VCR
FIJACION DE FUNCIONES
FIJAR RELOJ
FIJAR CANAL
LANGUEY LANGUAGE: ESPAÑOL
ELEGIR: A F
FIJAR : F
TERMINAR: ACTION

For Spanish

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

For French

Press ACTION to exit this mode.

Channels

 Press ▲▼ to select SET UP CHANNEL.

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

2) Press ▶.

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

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

CHANNEL/CLOCK AUTO SET

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

PLEASE PUSH CH UP KEY

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

Press CH ▲.

 Clock Auto Set will be performed when channels are replaced in memory.

Clock

1) Press ▲▼ to select SET CLOCK.

SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
1D10MA/LANGUE:ENGLISH
SELECT: A V KEY
SET : KEY
END :ACTION KEY

2) Press ▶.

AUTO CLOCK SET

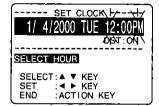
MANUAL

TIME ZONE ADJUST : 0

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

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

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

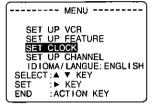


- 4) Press ▲▼ and ◀► to select and set the date, time, and DST (Daylight Saving Time).
- 5) Press ACTION twice to start the clock and exit this mode.

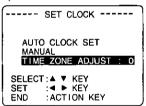
Time Zone Adjust

(When Auto Clock is set only.)

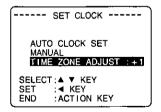
 Press ▲▼ to select SET CLOCK.



2) Press ▶.



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



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

Add or Delete a Channel

To add channel:

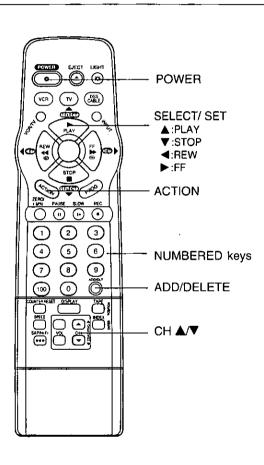
Select channel with NUMBERED keys and press ADD/DLT.

CHANNEL OB ADDED

To delete channel:

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

CHANNEL 08 DELETED





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





▲: PLAY ▼: STOP

∢: REW **▶**: FF

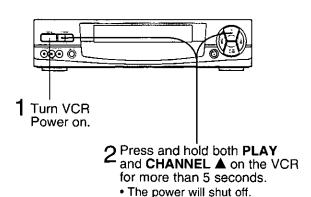
When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as ▲▼◀▶ only.

VCR & Cassette Information

Reset All VCR Memory Functions

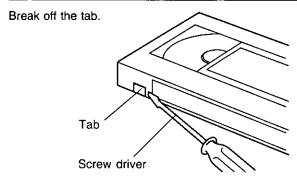
Use when moving VCR to new location, or if a mistake was made in the One Time VCR Setup section.

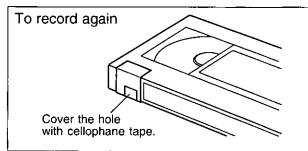
· Make sure a tape is not inserted in the VCR.



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

Prevent Accidental Tape Erasure



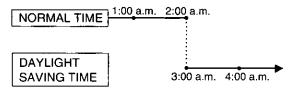


DST (Daylight Saving Time)

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

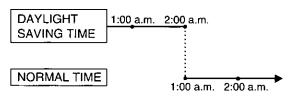
Spring (First Sunday in April)

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



Autumn (Last Sunday in October)

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



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

Record/Playback Time

Only use tapes with the VHS mark in this unit.

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

Head Cleaning

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

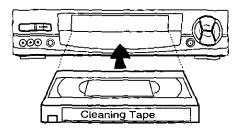
Video Head Clog Sensor

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

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

END:PLAY KEY

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



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

Specifications

Power Source: 120V AC, 60 Hz

Power Consumption: Approx. 23 watts (Power On) Approx. 3.3 watts (Power Off)

Video Signal: EIA Standard NTSC color

Video Recording System: 4 rotary heads helical

scanning system

Audio Track: 1 track (Normal)

2 channel (Hi-Fi Audio Sound)

Tuner:

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

CABLE Channels: Midband A through I (14~22)

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

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

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

Dimensions: 16-15/16" (W) x 3-7/8" (H) x

11-13/16" (D)

430 (W) x 98 (H) x 300 (D) mm

Note: Designs and specifications are subject to change

without notice.

Cleaning the VCR

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

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

Features for a Quality Picture

Digital Auto Picture

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

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

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







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

On-Screen Displays (OSD)

Function & Channel Display

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

Blank Tape/ No Video Signal Indication

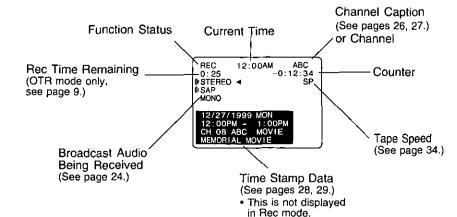
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 31) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

To display or remove the overlay.



Press DISPLAY.



Warning and Instruction Displays

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

OSD	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH VCR CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY	6	TO CANCEL TIMER REC PUSH POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording (visible in VCR mode only)	13
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording and the Clock is not set	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	35
TURN VCR OFF FOR TIMER RECORDING AND LEAVE CABLE BOX POWER ON	After a Timer Program has been set	13	VCR LOCK ACTIVATED	If you press a function button other than STOP/ EJECT or POWER while the VCR is in VCR Lock mode	30
CHECK CASSETTE RECORD TAB	If a cassette is inserted with no record tab, and you press REC on the remote control or VCR	34	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR: VCR KEY USE TV: TV KEY	If you press any invalid keys on the remote while in CABLE/DSS mode	18 19
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	18 19

Before Requesting Service

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

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

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

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

Service Center List

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

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

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

Accessory Purchases:

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

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

COLORADO

1640 South Abilene Street Suite D Aurora, CO 80012

FLORIDA

3700 North 29th Avenue Suite 102 Hollywood, FL 33020

GEORGIA

8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS

9060 Golf Road Niles, IL 60714

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

MARYLAND

62 Mountain Road Glen Burnie, MD 21061

MASSACHUSETTS

60 Glacier Drive Suite G Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue Sterling Heights, MI 48312

MINNESOTA

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

OHIO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd. West Suite B Langhorne, PA 19047

Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017

TENNESSEE

3800 Ezell Road Suite 806 Nashville, TN 37203

TEXAS

7482 Harwin Drive Houston, TX 77036

13615 Welch Road Suite 101 Farmers Branch, TX 75244

WASHINGTON

20425-84th Avenue South Kent, WA 98032

HAWAII

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

Service in Puerto Rico

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

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

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

As of April '98

Warranty

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

PANASONIC Video Products Limited Warranty

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

<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 (I) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (I) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS

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

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

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

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

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

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

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

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

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

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

Spanish Quick Use Guide/Guía para rápida consulta

Para ajustar el idioma, canal y reloj

- 1 Encienda el televisor y la videograbadora. Presione POWER.
- 2 Sintonice el televisor al canal de salida de la videograbadora

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

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

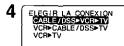
SELECT LANGUAGE PUSH VCR CH A: ENGLISH OPRIMIR VCR CH V:ESPAÑOL APP. VCR/TV : FRANÇAIS

Seleccione el languaje.

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

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

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



ELEGIR: ▲ ▼
FIJAR : ▶
TERMINAR: ACTION

Seleccione la conexión.

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



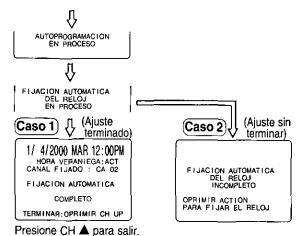
Seleccione la caja de TV por cable o su receptor el canal de salida.

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



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

Presione CH ...



Caso 2) El ajuste del reloj es incompleto.

Ajuste el reloj manualmente.

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

Ajustar de nuevo el reloj

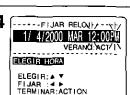
1 Presione ACTION para exhiba el menú.



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



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



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

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

Operaciones básicas para la reproducción

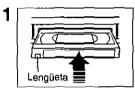
1 Inserte un casete.

· La videogrababora se enciende automáticamente.

2 Presione PLAY.

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

Operaciones básicas para la grabación



Inserte un casete.

 La videogrababora se enciende automáticamente.

2 Seleccione el canal.

Presione CH ▲/▼ o las teclas numéricas correspondiente.

3 Seleccione la velocidad de grabación.

Presione SPEED.

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

4 Comience la grabación.

Presione REC.

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

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

 La videograbadora termina la grabación a una hora programada.

Programación fácil para la grabación con temporizador

1 Exhiba FIJAR PROGRAMACION.

Presione PROG.



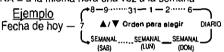
Exhiba la pantalla de la programación.

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



Ajuste la fecha de grabación.

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



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

NO, DEPORTE, CINÉ, COMEDIA, MUSICA, DRAMA



Haga las anotaciones necesarias.

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



Termine el programa.

 Presione PROG (o ACTION).

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

2) Presione PROG (o ACTION) para salir.

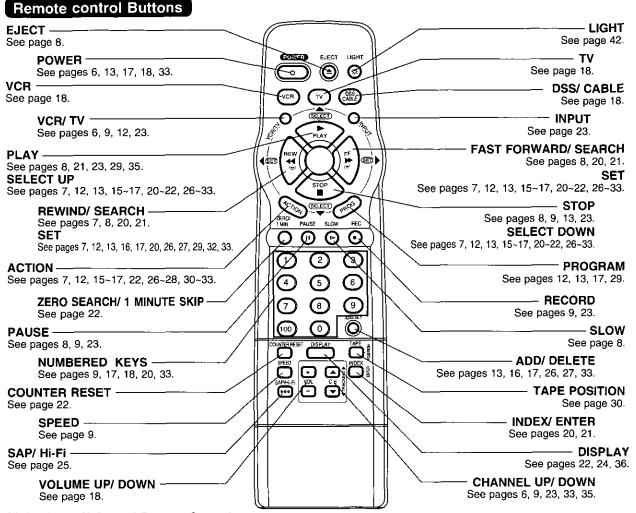


Grabación con temporizador.

Presione POWER para apagar.

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

Location of Controls



Light Tower Universal Remote Control

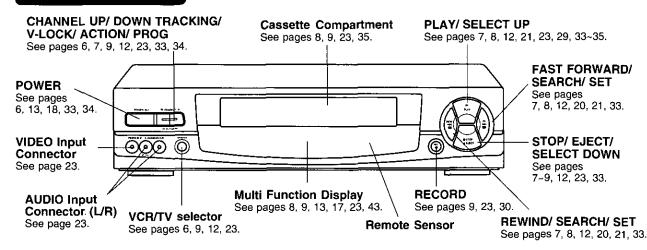
Light button: When the LIGHT button is pressed, the buttons which can be activated in the selected mode will light and the selected mode button (TV/VCR or CABLE DSS) will flash for 5 seconds. If no buttons are pressed within 5

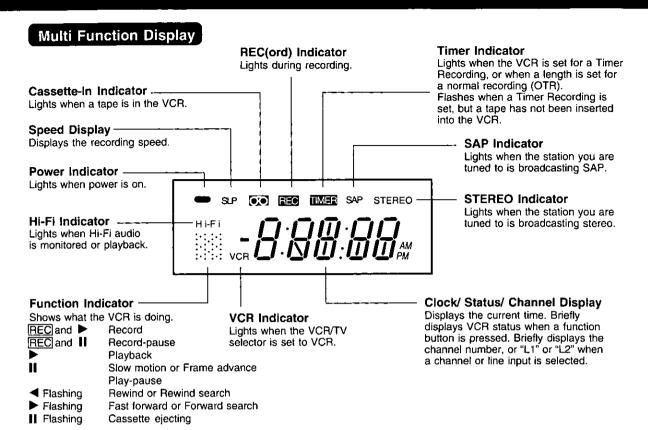
seconds, the light will turn off in order to conserve battery power. Also while holding down the buttons, the selected mode button will flash so you will be able to see, in the dark, which mode has been selected.

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

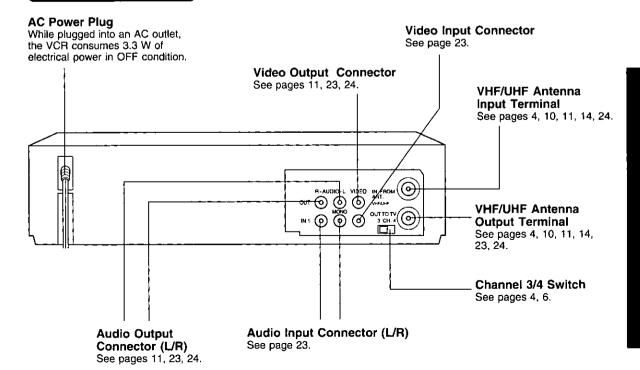
If EJECT is pressed during recording, the VCR will not respond to the command.

Front View of the VCR





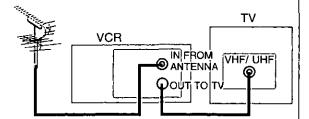
Rear View of the VCR



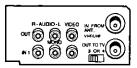
Quick Use Guide

Playback a Tape

Make all connections (page 4).



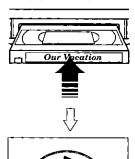
2 Set VCR Channel on VCR Rear Panel.



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

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

3 Play your Tape.

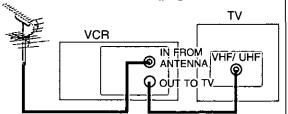


Insert a tape.

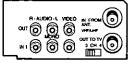
Press PLAY. (Start playback)

Record on a Tape

Make all connections (page 4).



2 Set VCR Channel on VCR Rear Panel.



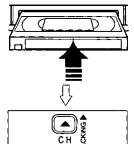
Slide the VCR Channel selector switch to the channel number not used by local broadcast companies (CH3 or 4).

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

 $\bf 3$ Do "One Time VCR Setup" on page 6.

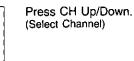
In order for the VCR to properly interface with your equipment, some setup is necessary.

4 Record on a Tape.

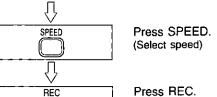


•

Insert a tape with Record Tab.



(Start Recording)



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

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

Panasonic Sales Company,

