

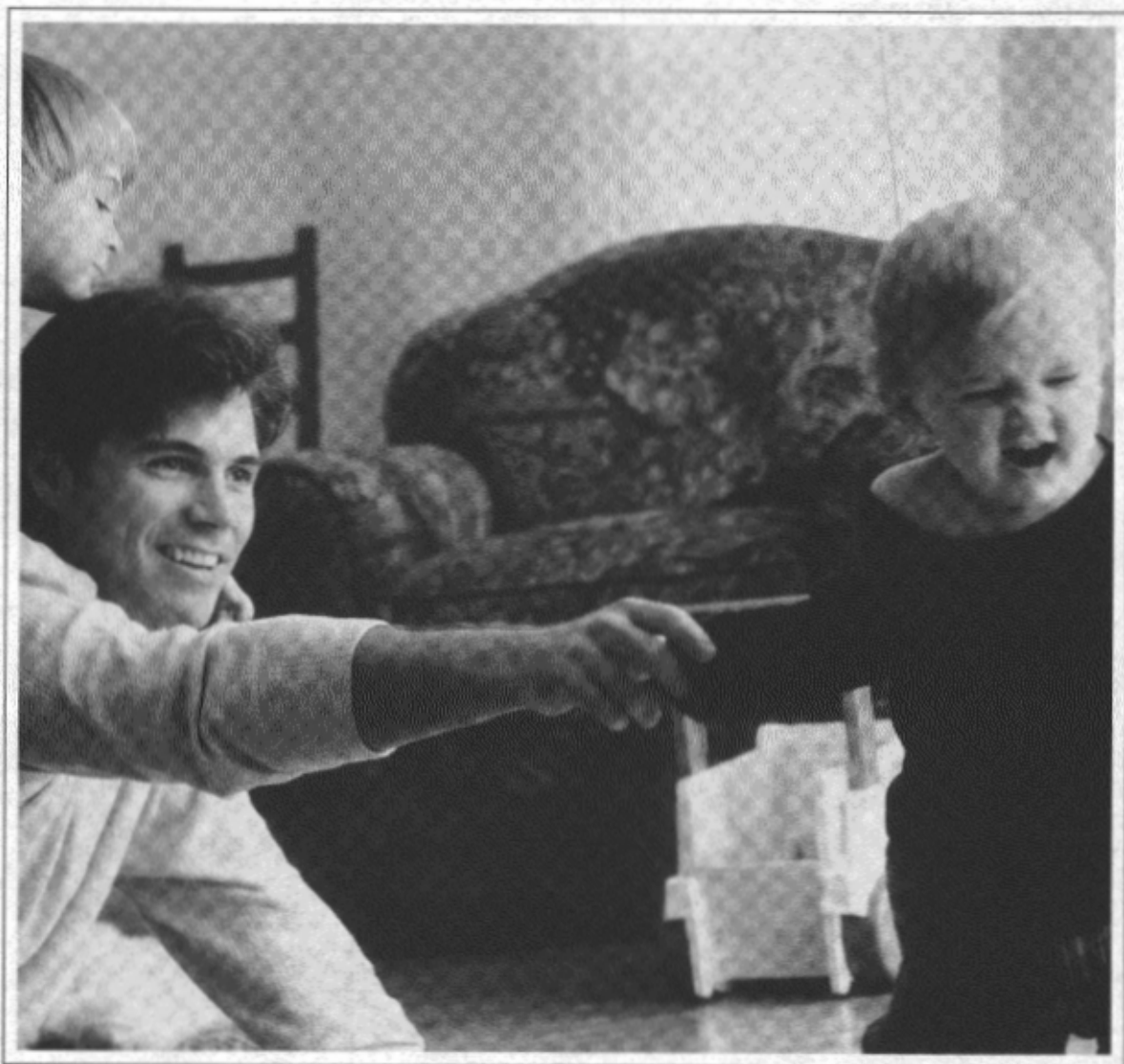
Video Cassette Recorder



Quasar VHS

Operating Instructions

MODEL VHQ-950

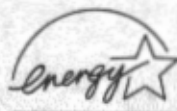


Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

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

Quick Use Guide is on the back cover.

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



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

Basic Operation

Advanced Operation

For Your Information

Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION

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

2 POLARIZED OR GROUNDING PLUG

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

POLARIZED PLUG CAUTION:

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

GROUNDING PLUG CAUTION:

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

3 POWER CORD

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

4 DO NOT BLOCK VENTILATION HOLES

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

For protection, follow these rules:

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

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

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

6 TO AVOID PERSONAL INJURY

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



Safety Precautions

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

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

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



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



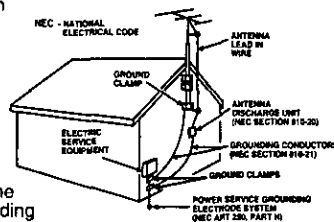
This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

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

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



2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

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

USING THE VIDEO UNIT

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

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

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

3 DURING AN ELECTRICAL STORM

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

4 WHEN THE UNIT IS PLUGGED IN

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

5 USING ACCESSORIES

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

6 CLEANING THE UNIT

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

SERVICE

1 DO NOT SERVICE THIS PRODUCT YOURSELF

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

2 IF REPLACEMENT PARTS ARE REQUIRED

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

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

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

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Now!

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Basic Operation

Enjoy
more!

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For Your Information

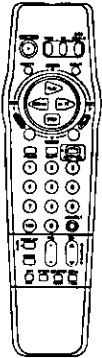
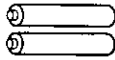
Congratulations

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

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

Accessories

- Remote Control VSQS1561
- Batteries 2 "AA"



- RF Coaxial Cable VJAS0196



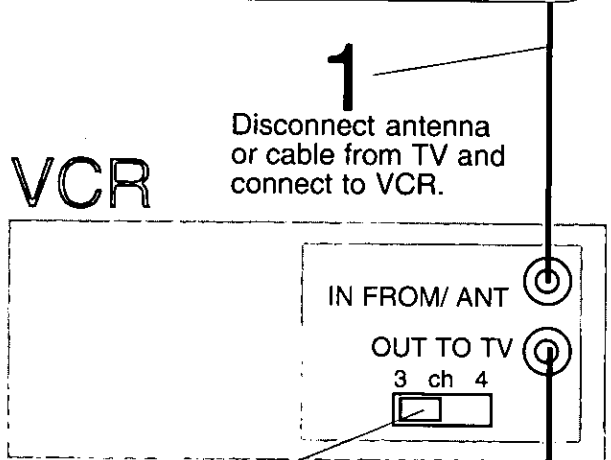
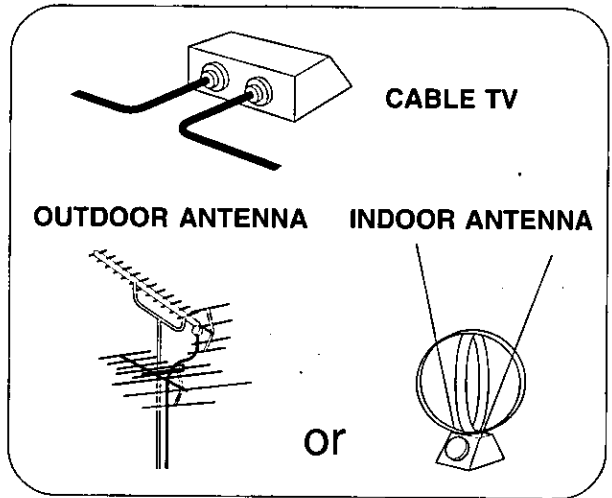
To order accessories, call toll free 1-800-332-5368.

Loading the Batteries

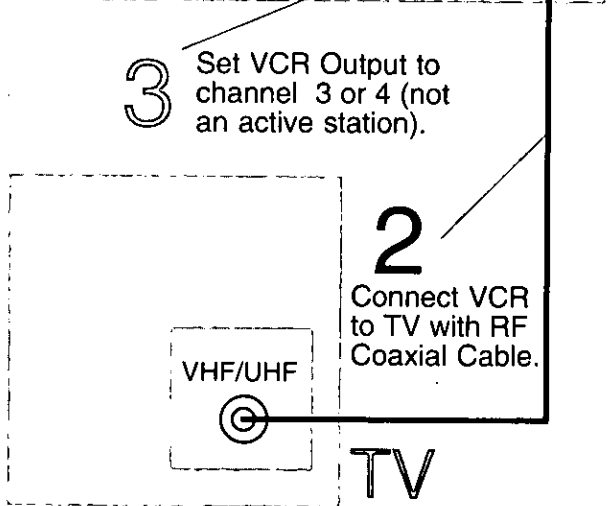
- 1) Open the cover.
- 2) Insert the batteries as marked.
- 3) Close the cover.

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

ANTENNA (See page 5)



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



- 3 Set VCR Output to channel 3 or 4 (not an active station).

- 2 Connect VCR to TV with RF Coaxial Cable.

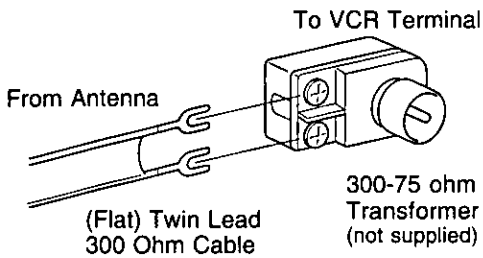
Tune TV to VCR output channel the same one you set in step 3.

WARNING

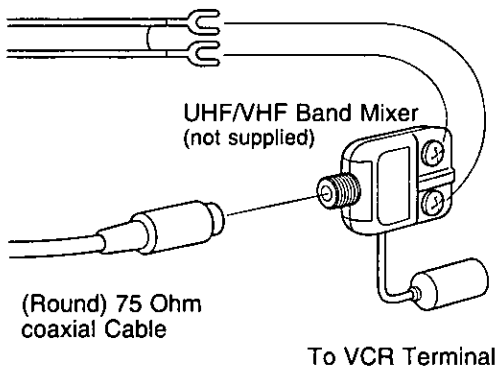
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

1 Between ANT. and VCR

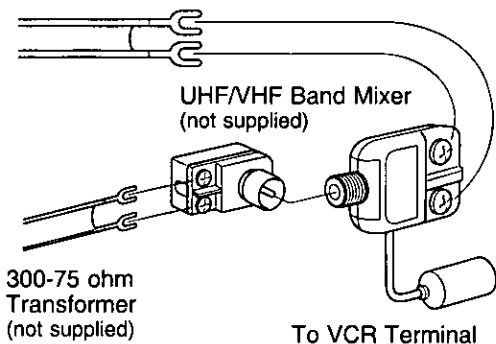
■ Case 1: Twin Lead Cable Only



■ Case 2: Twin Lead & Coaxial Cables



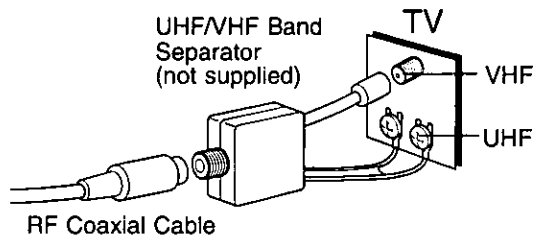
■ Case 3: Two Twin Lead Cables



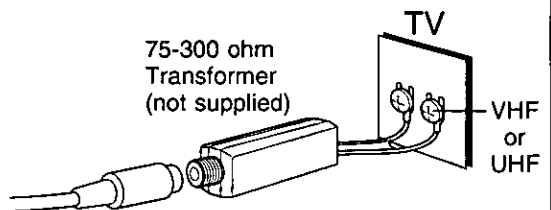
- If your TV has both post and plug-type VHF terminals, the post connection is recommended to minimize signal loss.

2 Between VCR and TV

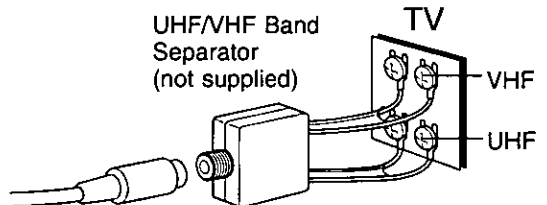
■ Case 1: Screw & Plug Type Terminal



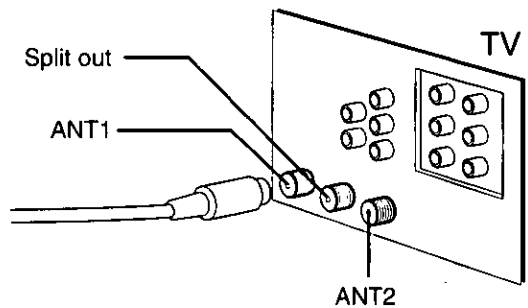
■ Case 2: Screw Type Terminal



■ Case 3: Double Screw Type Terminal



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



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

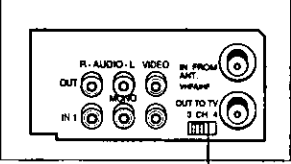
One Time VCR Setup

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

Process of Setup



1  **Turn the TV and VCR on.**
Press POWER.

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

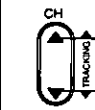

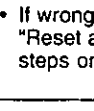
- Always tune TV to this channel to monitor the VCR.
- If you used audio/video jack connection, tune the TV to its video input.

3 **SELECT LANGUAGE**

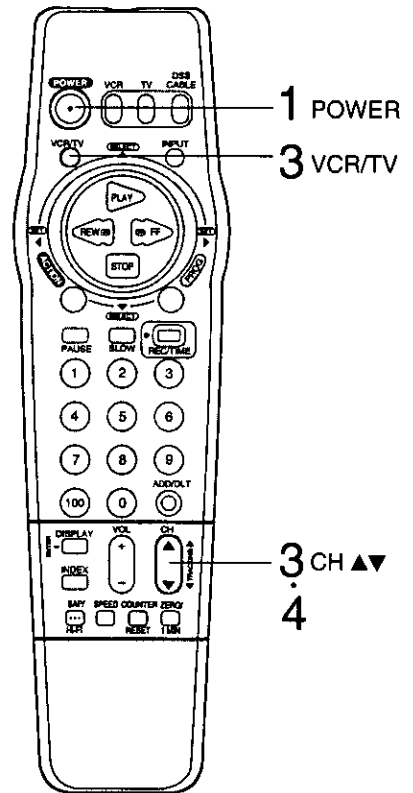
PUSH VCR CH ▲: ENGLISH
OPRIMIR VCR CH ▼: ESPAÑOL
APP. VCR/TV : FRANÇAIS

(TV Screen)

Select the language.

 for English
 for Spanish (ESPAÑOL)
 for French (FRANÇAIS)

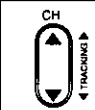
- Use remote or VCR buttons.
- If wrong language is set, do "Reset all VCR Memory Functions" steps on page 30.



4 **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.

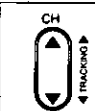
 Press CH ▲.

CH AUTO SET PROCEEDING

AUTO CLOCK SET PROCEEDING

Case 1 (Setup completed)

1/ 4/2000 TUE 12:00PM
DST:ON
SETTING : CH 02
AUTO CLOCK SET COMPLETED
END : PUSH CH UP KEY

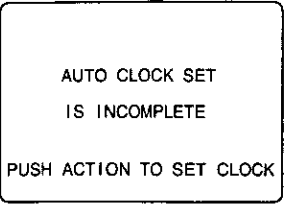
 Press CH ▲ to exit.
• If your area observes DST (daylight saving time), but the time is incorrect; do the "Time Zone Adjust" steps on page 29.

Case 2 (Setup incomplete)

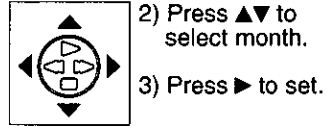
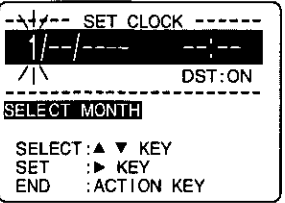
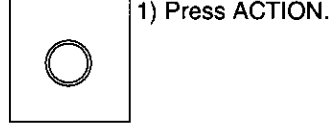
AUTO CLOCK SET IS INCOMPLETE
PUSH ACTION TO SET CLOCK

See next page.

Case 2 Clock Setup incomplete.

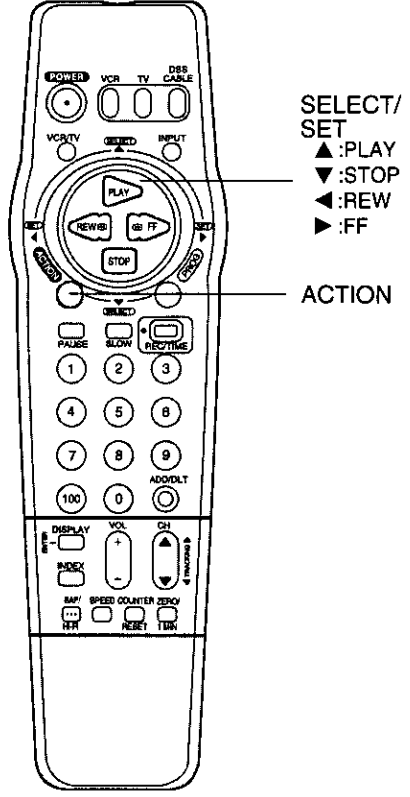
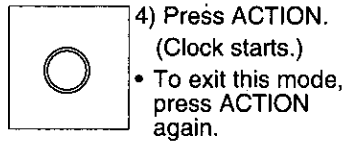
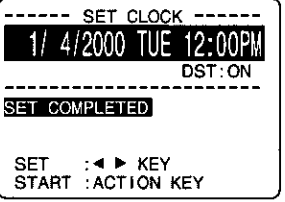


Set the clock manually.



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

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



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.

IMPORTANT NOTE FOR AUTO CLOCK SET

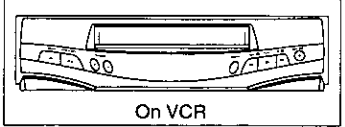
- Auto clock set is performed the first time the VCR is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time VCR power is turned off if you want auto clock set to be done.
- If used, a DSS receiver must be turned off for auto clock set.
- If Cable Box or 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.

Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

If using VCR buttons, press CH ▲ and CH ▼ together to display menu screen.

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



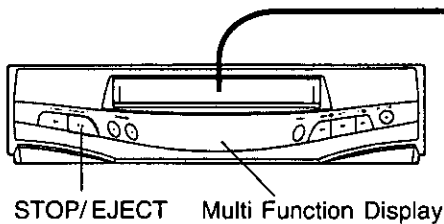
- ▲ : PLAY
- ▼ : STOP
- ◀ : REW
- ▶ : FF

Playback a Tape

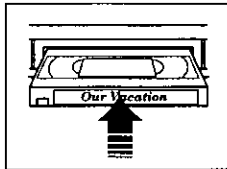


Check list before you begin.

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

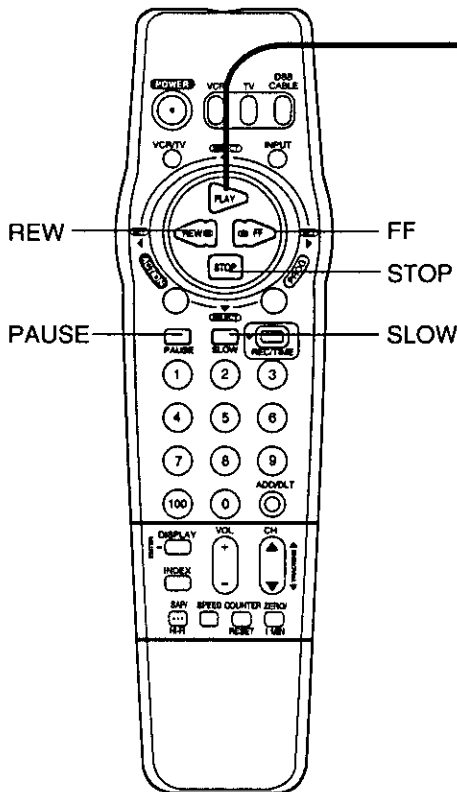


1



Insert a cassette.

- VCR power comes on and VCR appears on Multi Function display.



2



Press PLAY.

- Or, if cassette has no record tab (see page 30), auto playback begins.

- 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.)

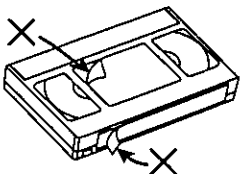
Notes

- To reduce picture noise, see "Manual Tracking Control" on page 31.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

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

Note

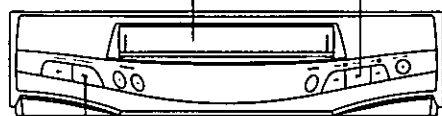
- To prevent tape jam
Inspect your cassette tapes and remove any loose or peeling labels.



Playback using VCR controls

1 Insert a cassette.

2 Press PLAY.

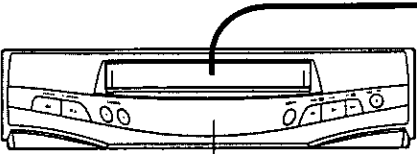


- Press to stop and/ or eject tape.

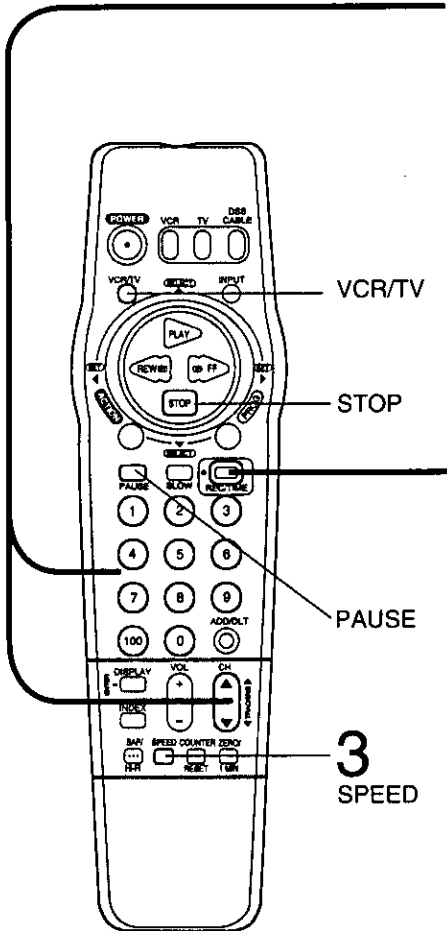
Record On a Tape

***Important:**

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

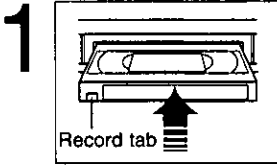


Multi Function Display



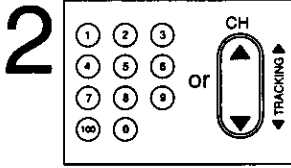
Check list before you begin.

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



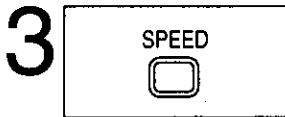
Insert a cassette.

- VCR power comes on automatically.



Select Channel.

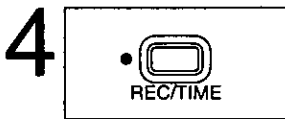
- Press CH ▲/▼* or NUMBERED keys.
- To select "LINE," see page 19.
 - To select channels over 100, first press 100 key, then enter remaining two digits.



Select Recording speed.

(See page 30.)
Press SPEED.

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



Start Recording.

Press REC/TIME.

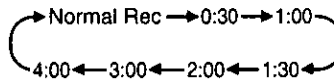
- To edit out unwanted portions, press PAUSE to pause and to resume recording.

■ **To stop** --> Press STOP.

■ **One Touch Recording**

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

- The VCR turns itself off at the preset time.



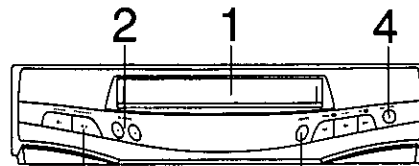
■ **Record One Program While Watching Another**

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

■ **Selecting Channel at the VCR**

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

Record using VCR controls



■ Press to stop. VCR/ TV

Note

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

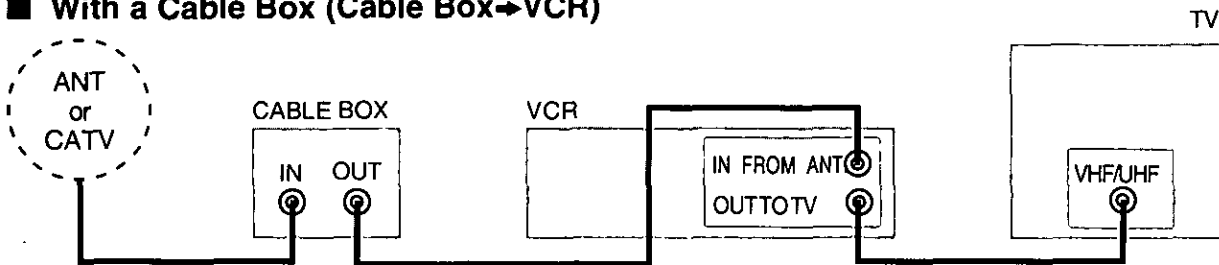
Advanced Connections

CATV Connection

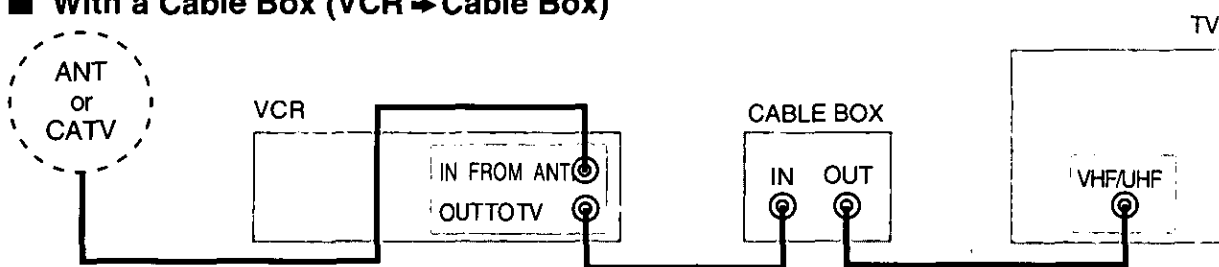
Be sure to tune TV to VCR output channel. (The same one you set on back of VCR: CH3 or CH4.)

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

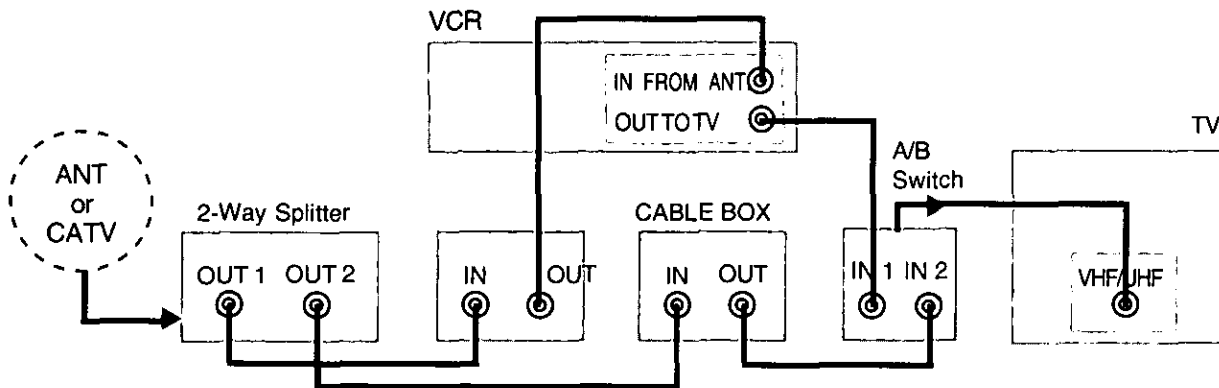
■ With a Cable Box (Cable Box → VCR)



■ With a Cable Box (VCR → Cable Box)

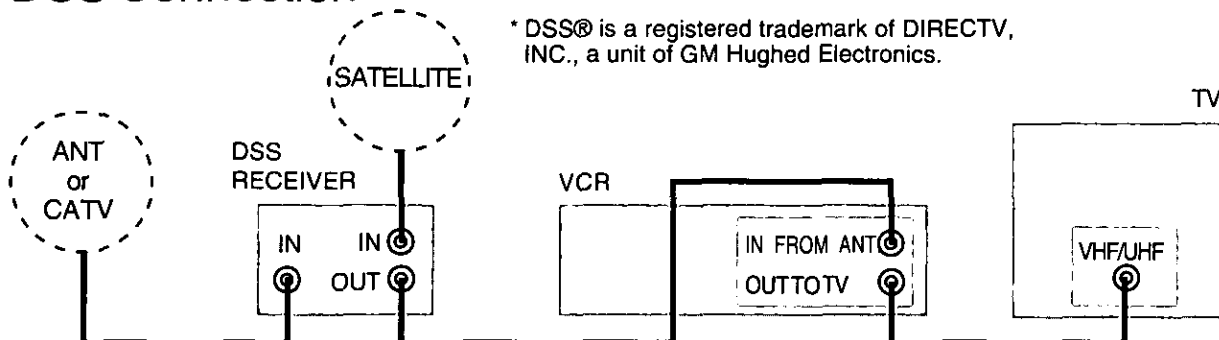


■ With Two Cable Boxes



DSS Connection

* DSS® is a registered trademark of DIRECTV, INC., a unit of GM Hughes Electronics.



You Can

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

You Cannot

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

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

- record scrambled channels.

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

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

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

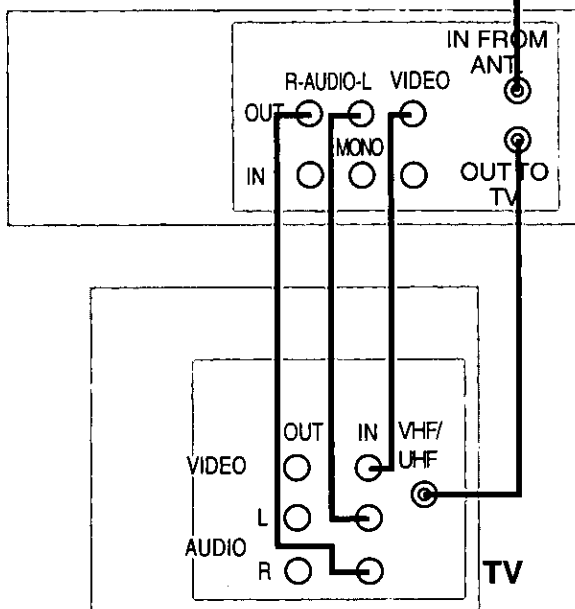
- view channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.

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

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 L Audio IN jack for proper sound reduction when connecting to a monaural TV.

Note to CABLE system installer:

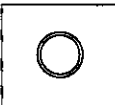


This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of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

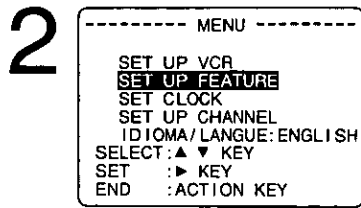
FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.


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

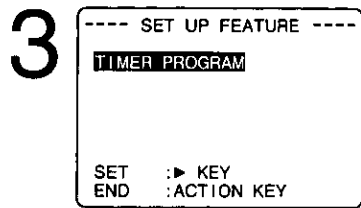
Timer Recording

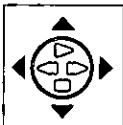
You can set up to 8 programs to be recorded while you are away.

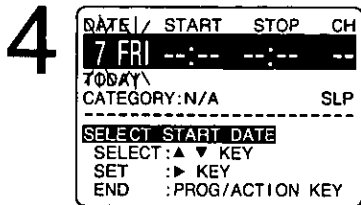
- 1**  **Display menu.** Press ACTION.*   **Display program screen.**
- 1) Press PROG.
 - 2) Go to step 4.
- * You can also set up using VCR buttons. See the bottom right of this page.
 - * If a program is already in memory, press ▲▼ and ► to select an unused program number.




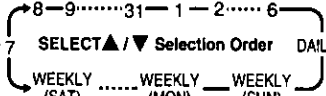
- Display SET UP FEATURE.**
- 
- 1) Press ▲▼ to select.
 - 2) Press ► to display.



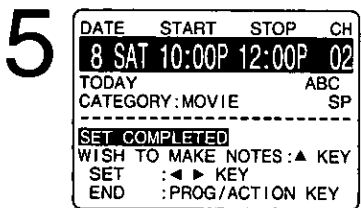
- Display Program screen.**
- 
- 1) Press ► to display.
- * If a program is already in memory, press ▲▼ and ► to select an unused program number.




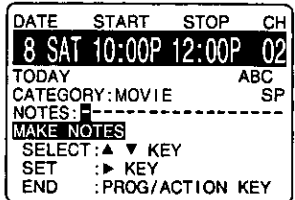
- Set the recording DATE.**
- 
- 1) Press ▲▼ to select.
 - 2) Press ► or ◀ to set.
- * 1~31 = One time
 - * DAILY = MON~FRI
 - * WEEKLY = Same time once a week

Example  Repeat step 4 to set: start time, stop time Channel (or LINE for outside source), Category**, tape speed (SP, LP, SLP).

Today — 7 — SELECT ▲ / ▼ Selection Order DAILY
 WEEKLY (SAT) WEEKLY (MON) WEEKLY (SUN)



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



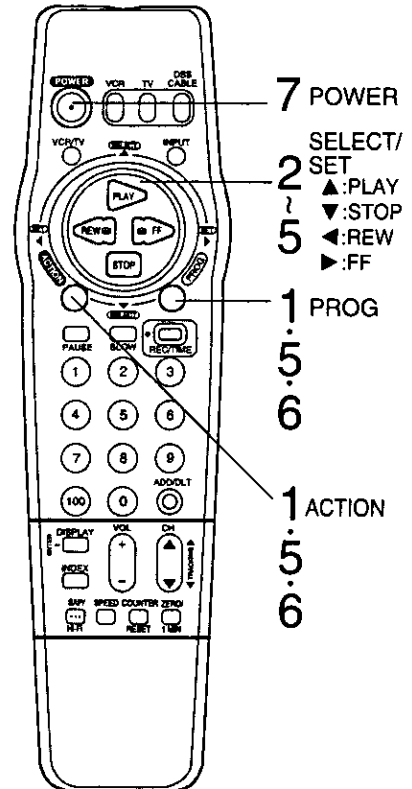
Continued on the next page.

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.

Check list before you begin.

- All connections are made. (See pages 4-5.)
- TV and VCR are plugged in and turned on.
- VCR/TV selector is set to "VCR."
- Clock is set to correct time.
- Record tab in place. (See page 30.)
- Remote in VCR mode.

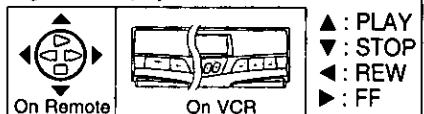


**Category Items
 N/A(not applicable), SPORTS,
 MOVIE, COMEDY, MUSIC, DRAMA

Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

If using VCR buttons, press CH▲ and CH▼ together to display menu screen.



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

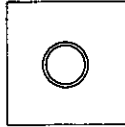
***Important:** If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, INDEX, NUMBERED keys, INPUT or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

6

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

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

End the program.



- 1) Press PROG (or ACTION).

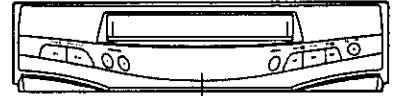
To Enter More Programs

Press ▲▼ to select, and ► to display a blank program number. Then repeat steps 4 and 5.

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

To cancel Timer Recording (Recording is in progress)

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



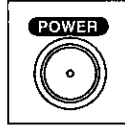
Multi Function Display

7



Multi Function Display

Set the timer.



Press Power OFF.

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

Review, Replace or Clear Program Contents:

(Recording is not in progress)

a

Repeat steps 1~3 on page 12.

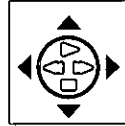
- If necessary, press POWER ON.

b

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

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

Select program.

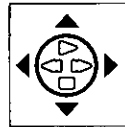


- 1) Press ▲▼ to select number.

c

To Replace program...

DATE	START	STOP	CH
8 SAT 10:00P	12:00P	02	
TODAY			ABC SP
CATEGORY: MOVIE			
NOTES: STAND BY ME			
SELECT START DATE			
SELECT: ▲ ▼ KEY			
SET: ◀ ▶ KEY			

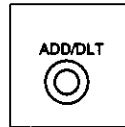


- 1) Press ► to display.
- 2) Press ▲▼◀▶ to set new program contents.

To Clear program...

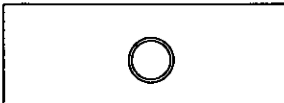
P	DT	START	STOP	CH	SPD
1	---	---	---	---	---
2	8	10:00P	12:00P	02	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	LP

SELECT 1-8: ▲ ▼ KEY
 ENTER: ► KEY



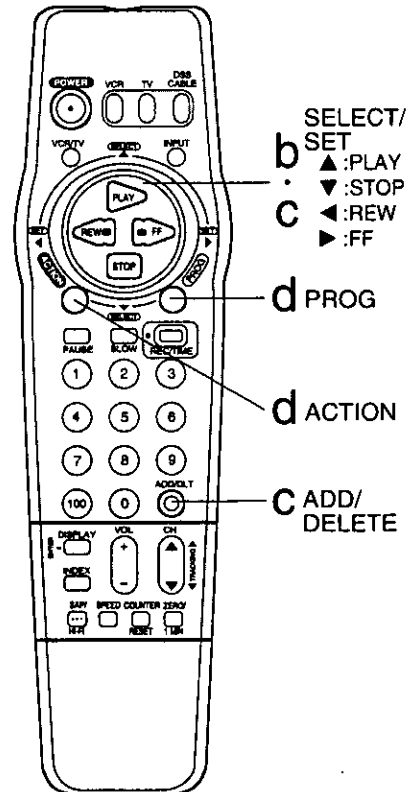
- 1) Press ADD/DLT.

d



End the program.

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



Timer Recording

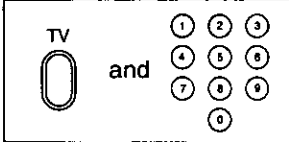
Multi-Brand Control Feature

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

Multi-Brand Control Setup

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

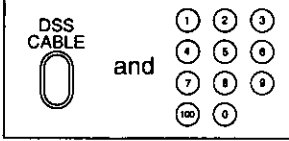
2 Setup for TV



Setup remote.

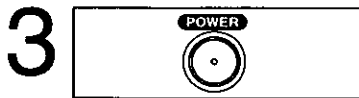
Hold down TV and enter code with NUMBERED keys.

Setup for Cable or DSS



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

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



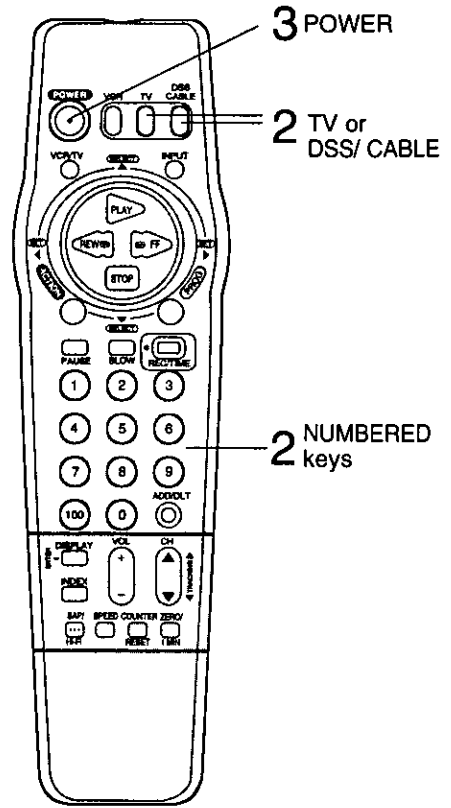
Confirm code entry.

Press POWER to turn selected unit ON or OFF.

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

Notes

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



Using the Multi-Brand Control

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

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

This table shows which buttons are available for each mode.

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

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

TV Brand Code Numbers

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

Cable Box Brand Code Numbers

Archer	01, 29, 44, 88, 91	Radio Shack	44
Cableview	04, 30, 42, 44, 52, 63, 85, 88	RCA	16, 17, 101
Citizen	04, 30, 42, 44, 52, 63, 85, 88	Realistic	44, 51, 88
Curtis	08, 09, 56, 61, 87, 90	Regal	14, 41
Diamond	01, 29, 44, 88, 91	Regency	28
Drake	37, 67, 71	Rembran	29, 32, 39, 42, 44, 88
Eagle	13, 20, 22, 26, 40, 58, 62, 98	Salora	68, 72
Eastern	28	Samsung	32, 40, 42, 78, 94
GC Brand	04, 30, 42, 44, 52, 63, 85, 88	Scientific Atlanta	08, 09, 56, 61, 87, 90
Gemini	04, 85	Sheritech	27
General Electric	57	SL Marx	32, 40, 42, 78, 94
General Instruments	01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95	Spucer	16, 17, 101
Hamlin	14, 15, 28, 41, 97, 100, 102	Stargate	04, 30, 32, 40, 42, 44, 52, 63, 78, 85, 88, 94
Hitachi	31, 79	Sylvania	19
Jerrold	01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95	Teknika	74
Macom	31, 79	Telecaption	77, 92
Magnavox	25, 26	Televue	32, 40, 42, 78, 94
Matsushita	16, 17, 101	Texscan	18, 19
Movietime	29, 32, 38, 39, 40, 42, 44, 88	Tocom	01, 33, 34, 42, 48, 49, 91
NEC	32, 38, 40	Toshiba	36
NSC	32, 38, 40	Uniden Satelite	65, 69
Oak	10, 11, 46, 99	Unika	01, 29, 44, 88, 91
Panasonic	16, 17, 101	Universal	42, 43, 44, 52, 63, 88
Philips	13, 20, 23, 24, 96	Videoway	07, 23, 50
Pioneer	05, 06, 78	Vid Tech	64
Pulsar	04, 30, 42, 44, 52, 63, 85, 88	Vidter	64
		Viewstar	13, 20, 22, 26, 40, 58, 62, 98
		Zenith	07, 23, 50

DSS Brand Code Numbers

Toshiba	103	Panasonic	109
Hitachi/ Hughes	104	RCA	108
Magnavox/ Uniden 1	105	Sony	107
Magnavox/ Uniden 2	106		

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

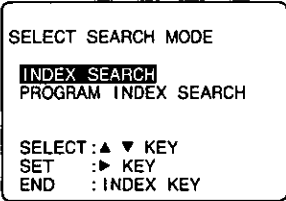
Each time a recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

Direct Access (For normal and /or timer recordings)

Go directly to desired recording.

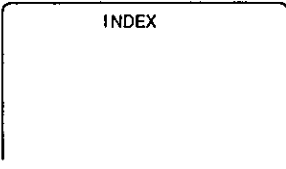
1  **Display SELECT SEARCH MODE.**
Press INDEX.*

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

2  **Display INDEX.**

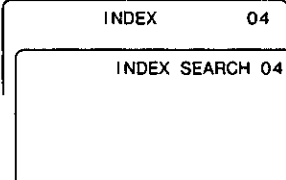
1) Press ▲▼ to select.
2) Press ► to display.

- This screen appears only if there are timer recordings.

3  **Select the recording number.**

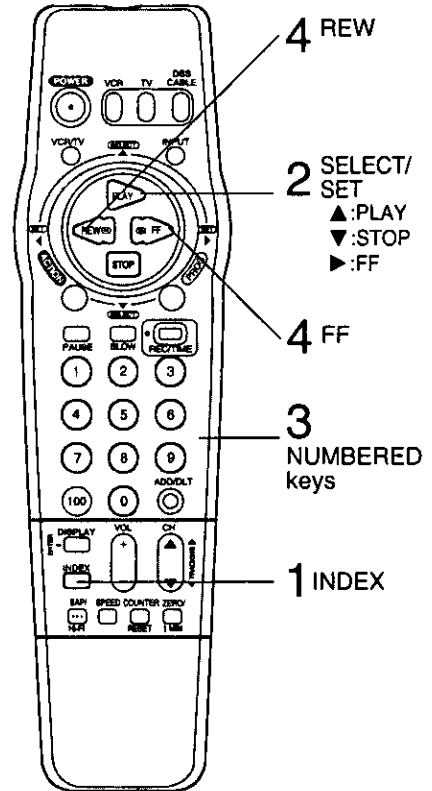
Press NUMBERED keys.

- To calculate number, see below.

4  **Start search.**

Press FF or REW.

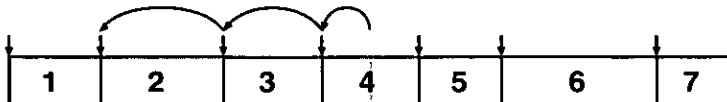
- When search is finished, playback begins.



To Calculate Index Number

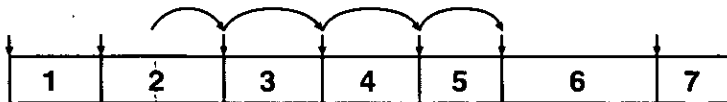
Example 1:

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

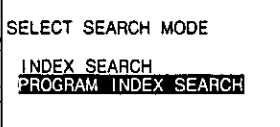
- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- If Direct Access or Index Scan is started very close to an index mark, that index mark may not be counted in the search.

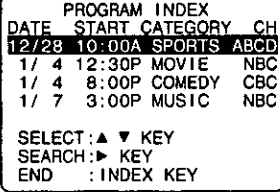
***Important:** If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, NUMBERED keys, INPUT, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

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 is deleted.


1  **Display SELECT SEARCH MODE.**
Press INDEX.

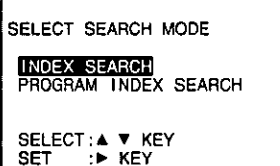
2  **Display PROGRAM INDEX.**
1) Press ▲▼ to select.
2) Press ► to display.


3  **Select the desired recorded program.**
1) Press ▲▼ to select.
2) Press ► to start the forward or rewind search.
• When search is finished, playback begins.

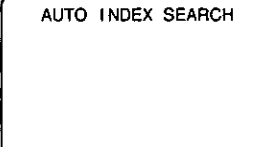
Index Scan (For normal and /or timer recordings)

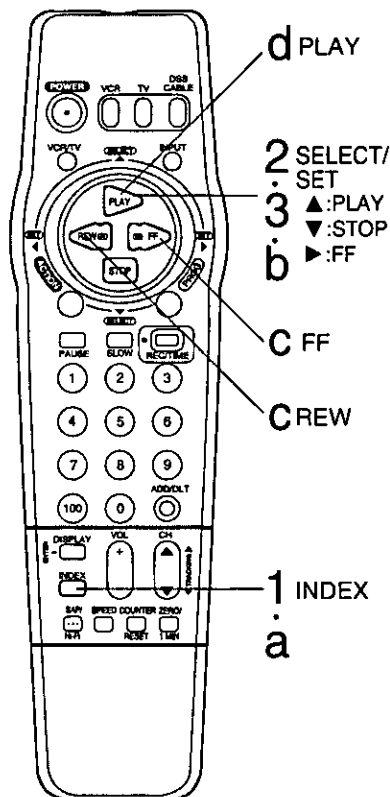
In Play mode, the first 10 seconds of each recording can be scanned (forward or reverse).

a  **Display SELECT SEARCH MODE.**
Press INDEX.
• If there are no timer recordings on the Program Index List, go to step c.

b  **Display INDEX.**
1) Press ▲▼ to select.
2) Press ► to display.

c  **Start scan.**
Press FF or REW.

d  **Cancel scan, start playback.**
Press PLAY.
• To stop, press STOP.



Auto Operation Functions

■ Auto Playback

Tape insert --> Power turn on -->
--> Start playback if record tab (see page 30) is removed.

■ Auto Rewind

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

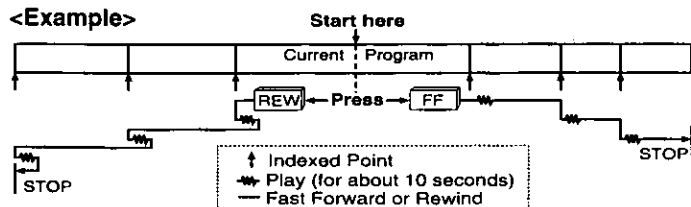
■ Playback Auto Eject (Repeat Play is "OFF")

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

■ Memory Rewind Off

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

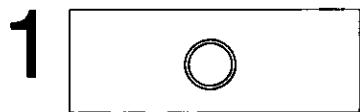
<Example>



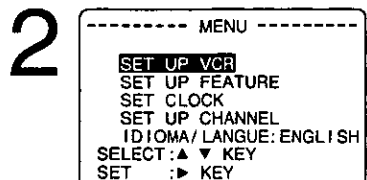
Tape Operation (continued)

Repeat Play

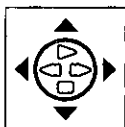
Set to see a recording over and over.



Display menu.
Press ACTION.*



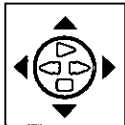
Display SET UP VCR.



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

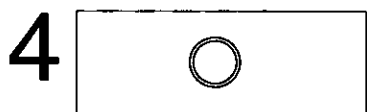


Set ON or OFF.



1) Press ▲▼ to select
"REPEAT PLAY."
2) Press ► to set.

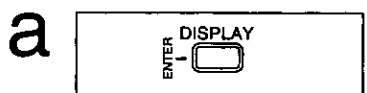
• Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.



Return to normal screen.
Press ACTION twice.

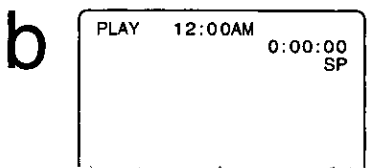
Zero Search

To quickly return to specific tape counter location.

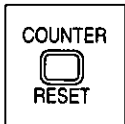


Display Counter.

Press DISPLAY during playback.

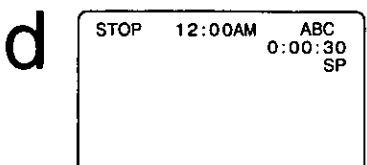


Reset to "0:00:00."

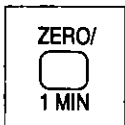


Press COUNTER
RESET at the desired
position.

c **Continue playback, rewind, or fast forward.**



Return to "0:00:00."

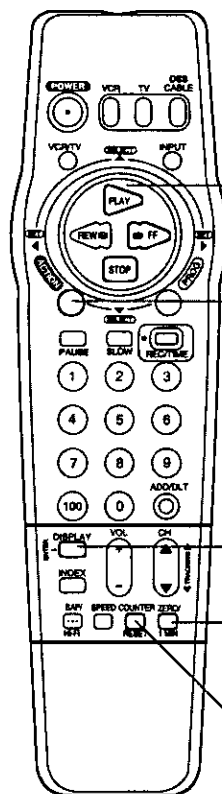


Press ZERO/ 1MIN
in Stop mode.

• 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, or ADD/ DLT button does not work when pressed, press the VCR button on the remote and try the button again.



2 SELECT/
SET

3 ▲:PLAY
▼:STOP
►:FF

1 ACTION

4

a DISPLAY

d ZERO/
1MIN

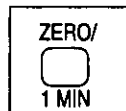
A

b COUNTER
RESET

One Minute Skip

VCR fast forwards over 60 seconds
of recorded tape.

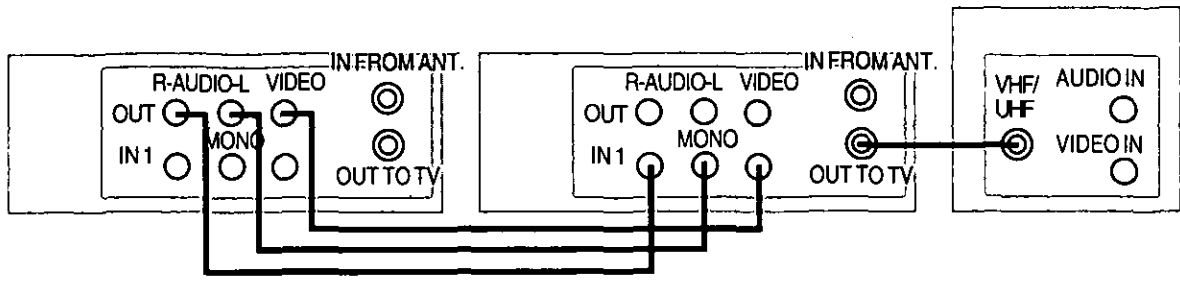
A



Press ZERO/ 1MIN
in Play mode.

Copying Your Tapes (Dubbing)

Connections you'll need to make.



Playing (Source) VCR

Recording (Editing) VCR

TV for Monitoring


Playing (Source) VCR

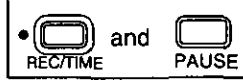
Recording (Editing) VCR


1  Insert pre-recorded tape.

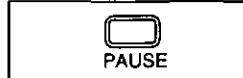
 Insert blank tape with record tab.

2  Select **LINE** mode. Press INPUT. (See "Selecting the Input Mode" below.)

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

 Put in Standby mode. Press REC/TIME, then PAUSE immediately.

4  Start dubbing. Press PAUSE.

 Start dubbing. Press PAUSE.

5  Stop dubbing. Press STOP.

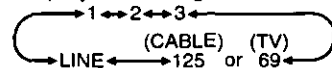
 Stop dubbing. Press STOP.

■ To Monitor Dubbing on Your TV

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

■ Selecting the Input Mode

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



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

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

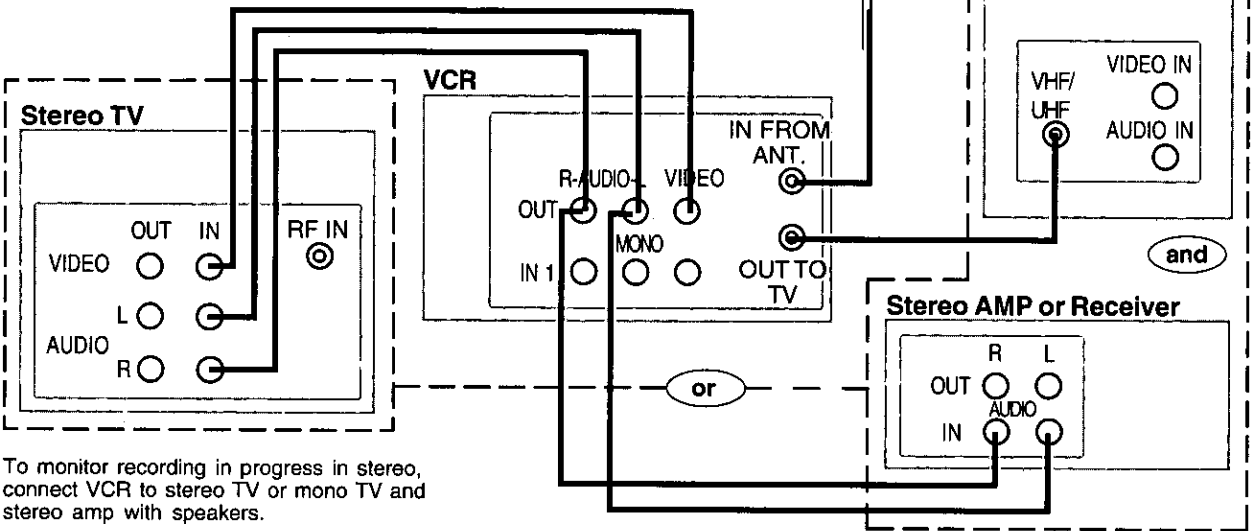
Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

Copying Your Tapes (Dubbing)

MTS Broadcast/VHS Hi-Fi Stereo System

- Check list before you begin.
- VCR is connected to a stereo TV, or a mono TV and an external stereo amp or receiver with speakers.
- VCR and other components are plugged in and turned on.

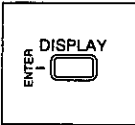
Connections to Make



To monitor recording in progress in stereo, connect VCR to stereo TV or mono TV and stereo amp with speakers.

Receivable Broadcast Types

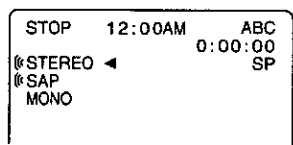
The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "Ⓢ" mark while the selected audio mode is indicated with an arrow.



Display the broadcast signal being received. Press DISPLAY.

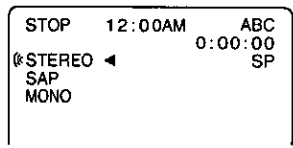
MTS Stereo and SAP broadcast

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.



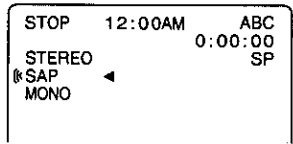
MTS Stereo broadcast

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.



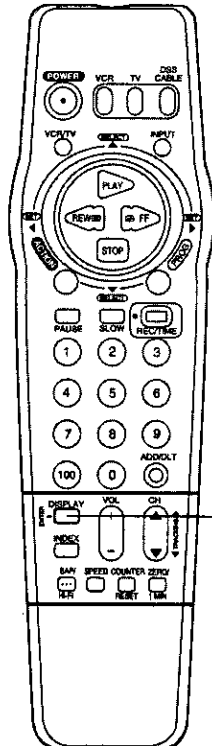
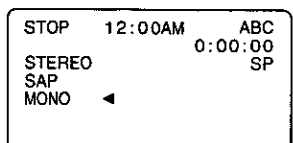
SAP broadcast

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



MONO broadcast

Normal monaural sound broadcast.



DISPLAY

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.

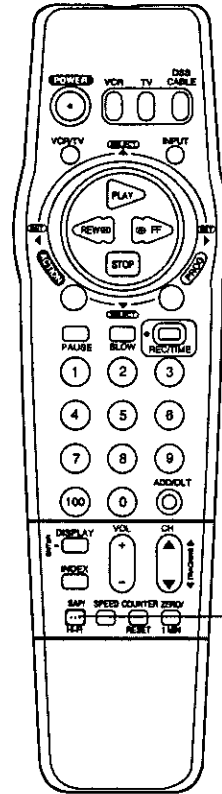
Audio Mode for Recording

1  **Display audio mode.**
Press SAP/ Hi-Fi.

2  **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 20.

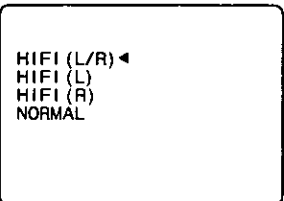
3 **Do a recording.**
See page 9.



Audio Mode for Playback

a **Start playback.**
See page 8.

b  **Display audio mode.**
Press SAP/ Hi-Fi.

c  **Select desired mode.**
Press SAP/ Hi-Fi repeatedly (each press within 5 seconds).

- The arrow indicates your selection.
- 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 20.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

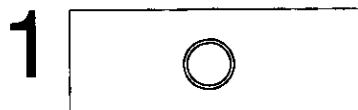
Special VCR Features

Channel Caption

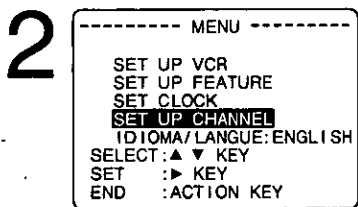
When set, station name (e.g. ABC, CBS) and channel number appear on-screen. Up to 24 preset captions, and/or 10 manually created captions can be set.

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

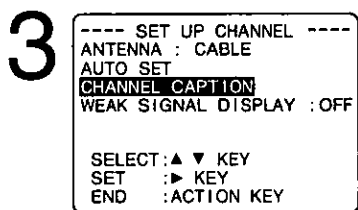
Preset Caption



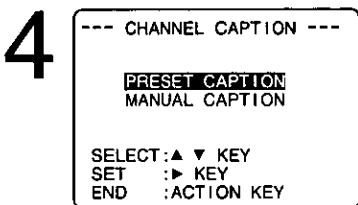
Display menu.
Press ACTION.*



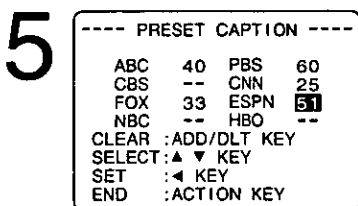
Display SET UP CHANNEL.
1) Press ▲▼ to select.
2) Press ► to display.



Display CHANNEL CAPTION.
1) Press ▲▼ to select.
2) Press ► to display.



Display PRESET CAPTION.
1) Press ▲▼ to select.
2) Press ► to display.
• To create your own captions, go to "Manual Caption" on page 23.

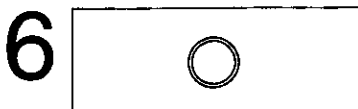


Assign preset captions.
1) Press ▲▼ to highlight caption.
2) Press ► to move cursor to the right.
3) Press ▲▼ to select CH number.
4) Press ◀ to set.

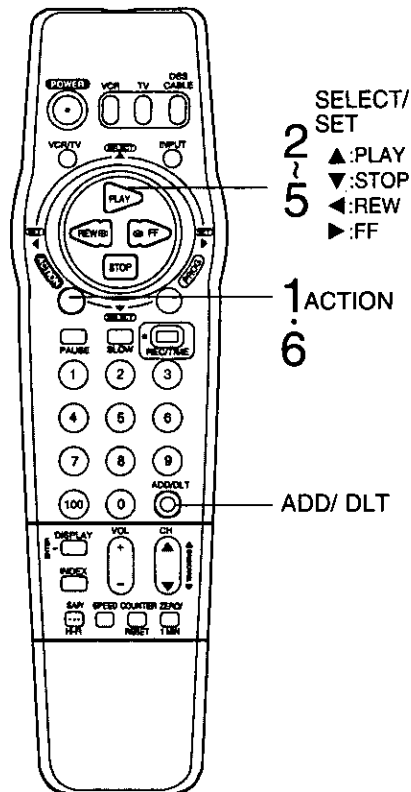
• Repeat step 5 until the list is complete.

To make corrections,

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



End setup.
Press ACTION four times.



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

Manual Caption

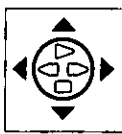
1 Do "Preset Caption" steps 1~3 on page 22.

2 **Display MANUAL CAPTION.**

--- CHANNEL CAPTION ---

PRESET CAPTION
MANUAL CAPTION

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



1) Press ▲▼ to select.

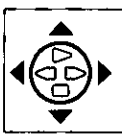
2) Press ▶ to display.

3 **Select channel number.**

--- MANUAL CAPTION ---

CH NUMBER	CAPTION
02	----

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



1) Press ▲▼ to select CH NUMBER.

2) Press ▶ to move cursor to the right.

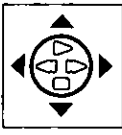
- Channels already set and channels deleted from Channel Memory are not displayed.
- You can set a total of ten channel captions.

4 **Enter CAPTION.**

--- MANUAL CAPTION ---

CH NUMBER	CAPTION
02	A----

CLEAR :ADD/DLT KEY
SELECT:▲▼ KEY
SET :◀ KEY



1) Press ▲▼ to select.

2) Press ▶ to enter.

- Characters change in following order.

→ A ↔ B ↔ C ↔ ... ↔ Z ↔ BLANK ↔ ... ↔ & ↔
→ 9 ↔ ... ↔ 2 ↔ 1 ↔ 0 ↔ / ↔ | ↔

3) Press ◀ to set.

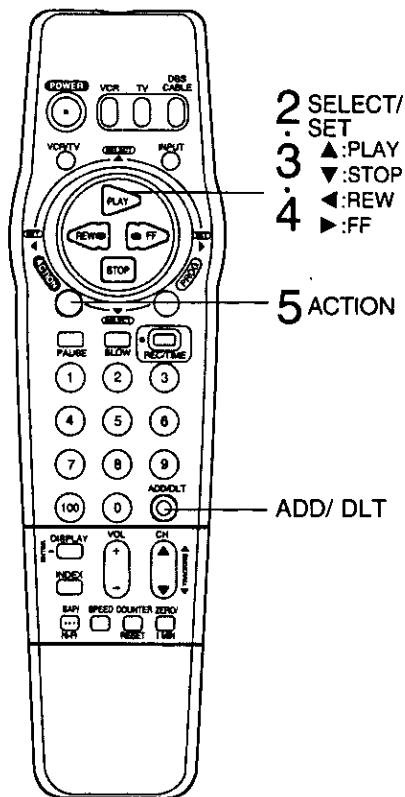
- Repeat steps 3 and 4 as desired.

To make corrections,

Press ◀▶ to move to the incorrect entry, then press ▲▼ to make correction. Or, press ADD/DLT to clear the caption.

5 **End input.**
Press ACTION four times.



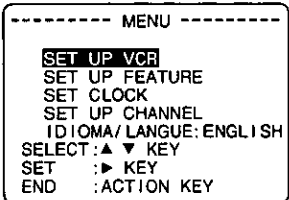


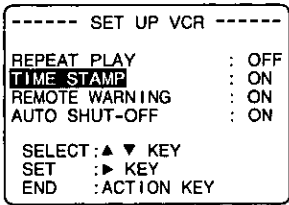
Special VCR Features (continued)


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 25.

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

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

3  **Set ON or OFF.**
1) Press ▲▼ to select.
2) Press ▶ to set.
• When "OFF" is selected, the program data is written on the tape, but will not be displayed.

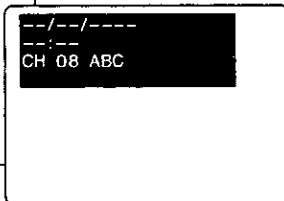
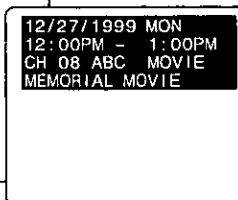
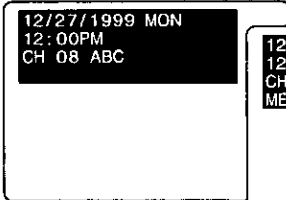
4  **Return to normal screen.**
Press ACTION twice.

<Time Stamp Example>

One Touch Recording

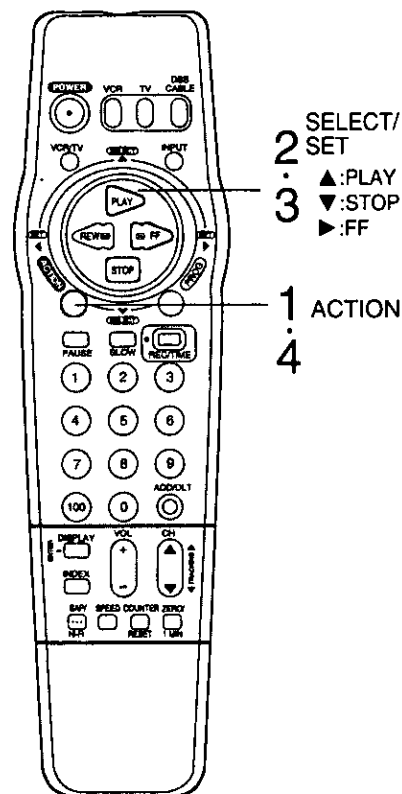
Timer Recording

When Clock is not set...



Check list before you begin.


- Clock is set to correct time.
- Record tab in place. (See page 30.)

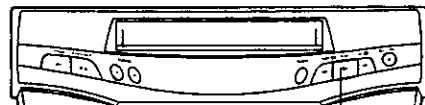


***Important:** If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, MENU keys, INPUT, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

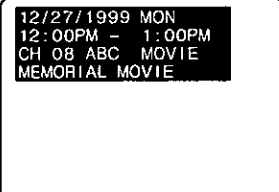

Changing Time Stamp Data

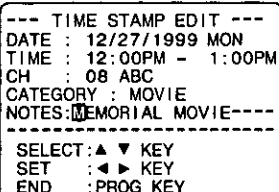
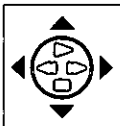
You may change the Date, Time, Channel, Category, and Notes.

1  **Display Time Stamp Data.**
 1) Insert cassette with record tab.
 2) Press PLAY.



PLAY


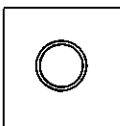
2  **Display TIME STAMP EDIT.**
 Press PROG while the data is displayed in Playback mode.

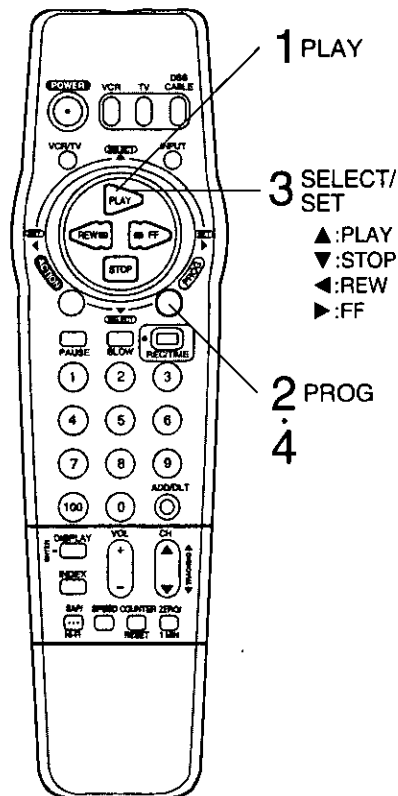
3  **Change Time Stamp Data.**
 1) Press ▲▼ to select.
 2) Press ▶ to enter and continue.
 • Characters in NOTES will change in the following order.

→ A ↔ B ↔ C ↔ ... ↔ Z ↔ BLANK ↔ ... ↔ & ↔
 → 9 ↔ ... ↔ 2 ↔ 1 ↔ 0 ↔ / ↔ ! ↔

3) Repeat 1) and 2) as needed.

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

4  **Write the new data.**
 Press PROG.
 • When data is written, VCR returns to Stop mode.

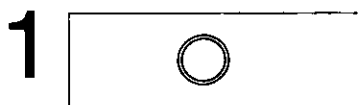


Special VCR Features

Special VCR Features (continued)

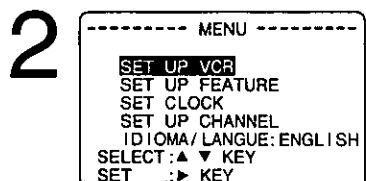
Remote Warning ON/OFF Feature

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

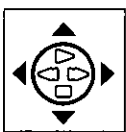


Display menu.

Press ACTION.

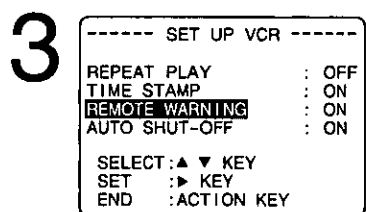


Display SET UP VCR.



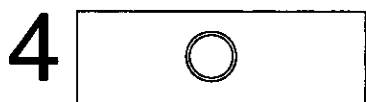
1) Press ▲▼ to select.

2) Press ► to display.



1) Press ▲▼ to select.

2) Press ► to set.

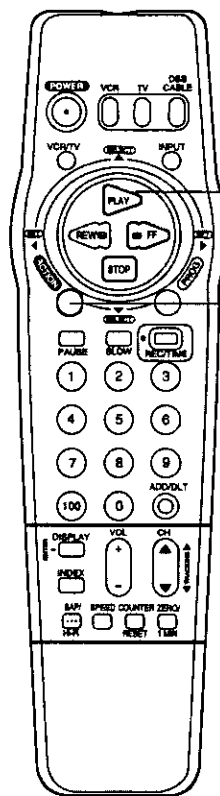


Return to normal screen.

Press ACTION twice.

Check list before you begin.

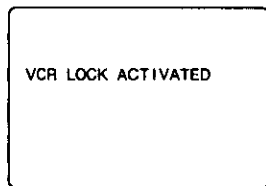
- All connections are made. (See pages 4-5.)
- VCR is plugged in.
- TV is turned on and set to the VCR channel (CH 3 or 4).



- 2 SELECT/SET
- 3 ▲:PLAY
▼:STOP
▶:FF
- 1 ACTION
- 4

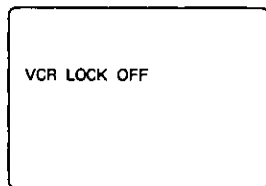
VCR Lock Feature

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



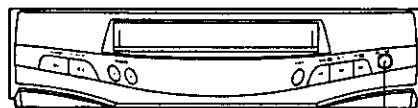
To turn ON:

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



To turn OFF:

Repeat above.




REC

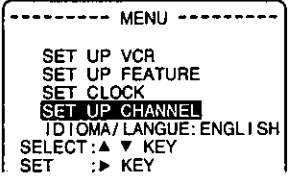
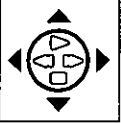
- VCR Lock is canceled automatically after 24 hours if clock is set.

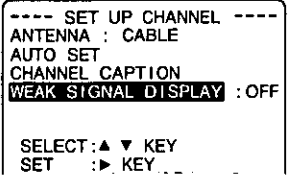
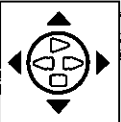
*Important: If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, NUMBERED keys, INPUT, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

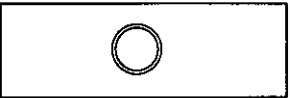
Weak Signal Display ON/OFF Feature

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

- 1**  **Display menu.**
Press ACTION.

- 2**  **Display SET UP CHANNEL.**

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

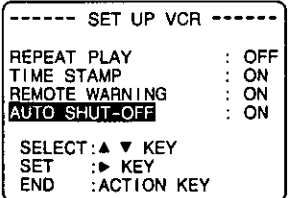
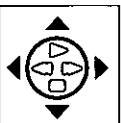
- 3**  **Set ON or OFF.**

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

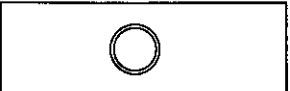
- 4**  **Return to normal screen.**
Press ACTION twice.

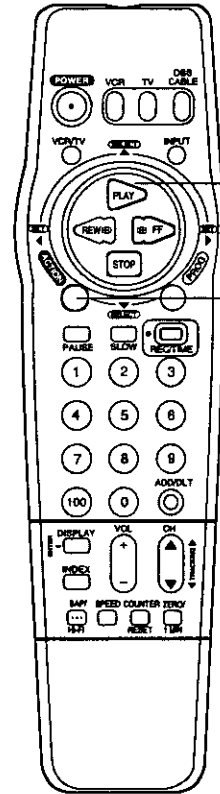
Auto Shut-Off Feature

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

a Repeat step "1" and "2" on page 26 to display SET UP VCR.

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

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

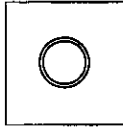
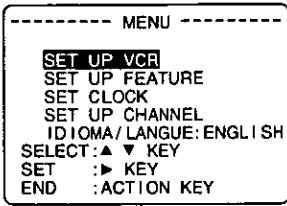
- c**  **Return to normal screen.**
Press ACTION twice.



- 2 SELECT/SET
- 3 ▲:PLAY
- b ▼:STOP
- 1 ACTION
- 4
- c ►:FF

Reset Language, Channels, Clock

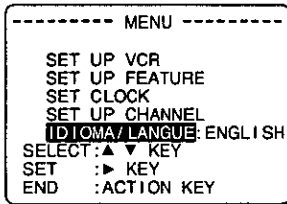
1



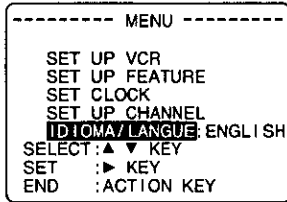
Display menu.
Press ACTION.*

2 Language

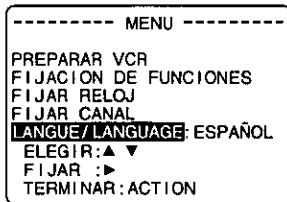
1) Press ▲▼ to highlight language item.



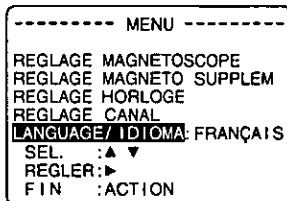
2) Press ► repeatedly.



For English



For Spanish

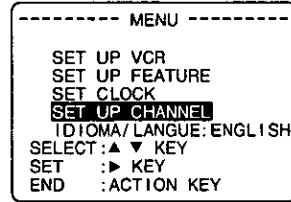


For French

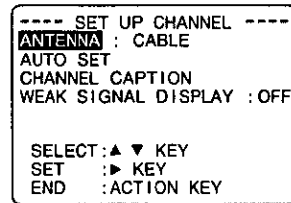
3) Press ACTION to exit this mode.

Channels

1) Press ▲▼ to select SET UP CHANNEL.



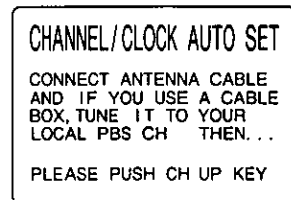
2) Press ►.



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

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

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



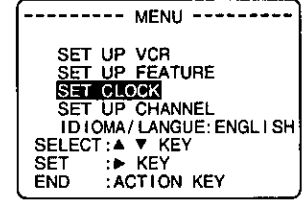
(This screen appears only when auto clock is set.)

5) Press CH ▲.

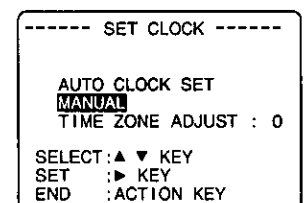
• Clock Auto Set will be performed when channels are replaced in memory.

Clock

1) Press ▲▼ to select SET CLOCK.



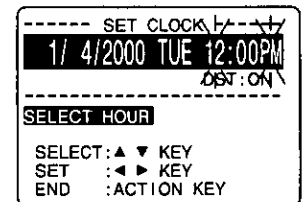
2) Press ►.



("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.

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

Add or Delete a Channel

To add channel:

Select channel with NUMBERED keys and press ADD/DLT.

To delete channel:

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

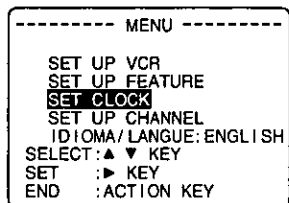
CHANNEL 08 ADDED

CHANNEL 08 DELETED

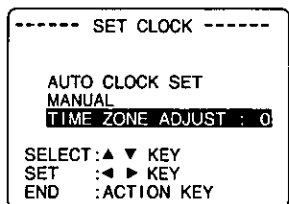
Time Zone Adjust

(When Auto Clock is set only.)

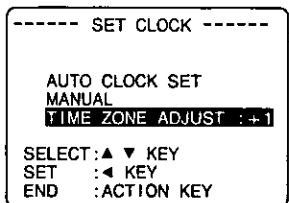
- 1) Press ▲▼ to select SET CLOCK.



- 2) Press ▶.



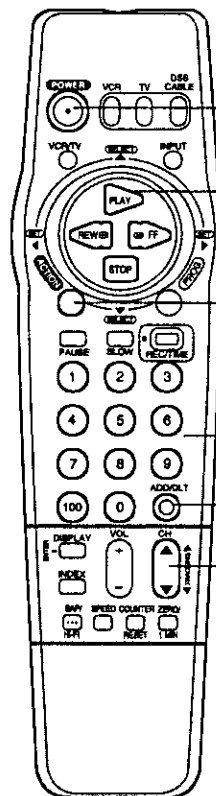
- 3) Press ▲▼ to select TIME ZONE ADJUST and press ◀ or ▶ to subtract or add hour(s) as necessary.



- 4) Press ACTION twice.

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

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



POWER

SELECT/ SET

▲:PLAY

▼:STOP

◀:REW

▶:FF

ACTION

NUMBERED keys

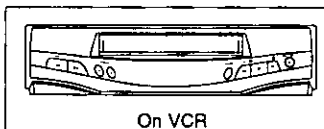
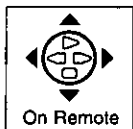
ADD/DELETE

CH ▲/▼

Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

If using VCR buttons, press CH ▲ and CH ▼ together to display menu screen.



▲: PLAY

▼: STOP

◀: REW

▶: FF

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

Reset Language, Channels, Clock

VCR & Cassette Information

Reset all VCR Memory Functions

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

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



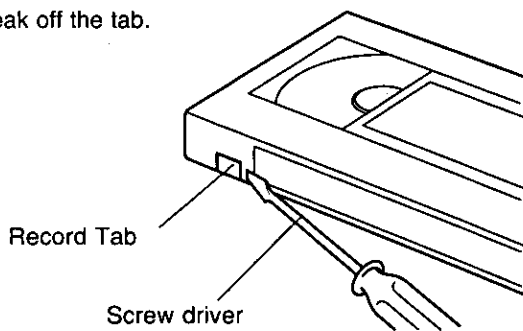
1 Turn VCR Power on.

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

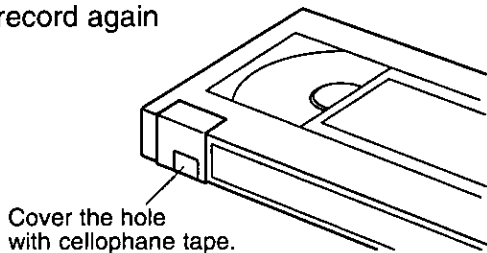
3 Do "One Time VCR Setup" steps on page 6.

Prevent Accidental Erasure

Break off the tab.



To record again

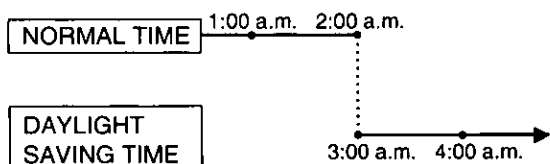


DST (Daylight Saving Time)

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

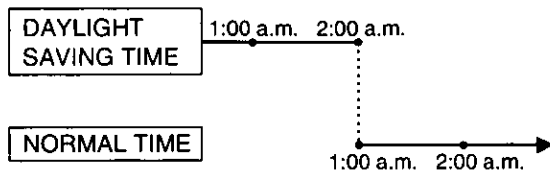
Spring (First Sunday in April)

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



Autumn (Last Sunday in October)

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



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

Record/Playback Time

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

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 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.

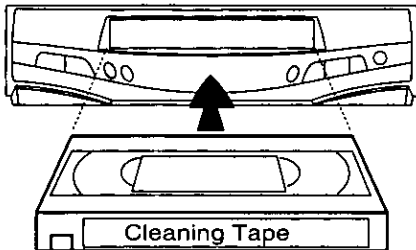
Video Head Clog Sensor

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 34.)

Specifications

Power Source:	120V AC, 60 Hz
Power Consumption:	<u>Power On</u> Approx. 23 watts <u>Power Off</u> Approx. 3.3 watts
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:	6.6 lbs. (3.0 kg)
Dimensions:	14-15/16" (W) x 3-2/3" (H) x 12-3/16" (D) 380 (W) x 93 (H) x 310 (D) mm

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

Built-in Head Cleaner

A clean video head helps produce a clear picture. We have equipped your VCR with a built-in, non-chemical head cleaning system that helps prevent clogging of the video heads. Cleaning is performed each time you load or unload a video cassette.

- This feature is preventative only. If your video heads are seriously clogged, consider the use of a chemical nonabrasive head cleaning kit or take your VCR to a Service Center.

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.

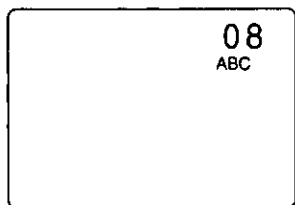
Cleaning the VCR

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.

On-Screen Displays (OSD)

Function & Channel Display



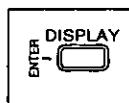
When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters. (Some Station names may also appear if Channel Caption is set. See page 22, 23.)

Blank Tape/ No Video Signal Indication

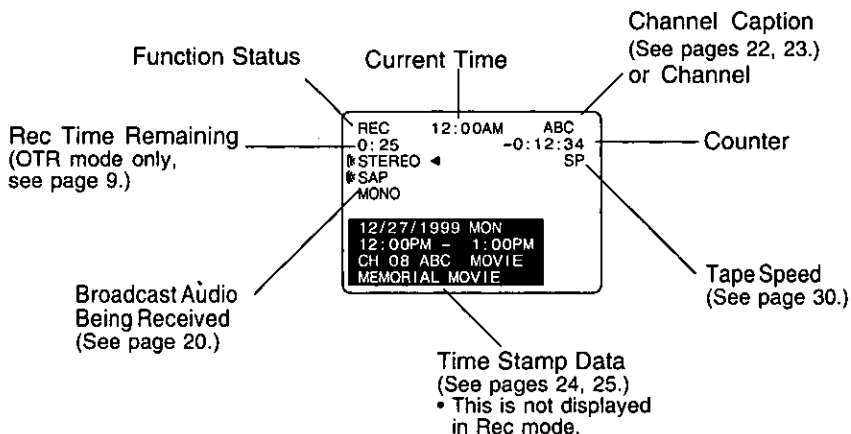
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 27) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

To display or remove the overlay.



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 13	VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END; PLAY KEY	If head cleaning becomes necessary while playing back a tape...	31
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set...	13	VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode...	26
CHECK CASSETTE RECORD TAB	If a cassette is inserted with no record tab, and you press REC on the remote control or VCR...	30	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE TV : TV KEY	If you press any invalid keys on the remote while in CABLE/DSS mode...	14 15
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted...	8 9	REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press any invalid keys on the remote while in TV mode...	14 15

Before Requesting Service

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

Power	Correction
No power...	<ul style="list-style-type: none"> • Completely insert Power Plug into an AC outlet. • Set POWER button to ON. • Make sure power source is active.
Recording & Playback	Correction
TV program cannot be recorded...	<ul style="list-style-type: none"> • Check connections between VCR, external antenna, and TV. • Check hook up selection. (P.4~5) • Make sure your antenna system (CABLE or TV) is correctly set. (Channels [P.28]) • Make sure cassette record tab is intact. (P.30)
Timer recording cannot be performed...	<ul style="list-style-type: none"> • 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...	<ul style="list-style-type: none"> • 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.31) • Try Head Cleaning. (P.31)
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control...	<ul style="list-style-type: none"> • Set TV's Vertical Hold Control to MANUAL,? then adjust.
VCR cannot be controlled...	<ul style="list-style-type: none"> • Make sure VCR LOCK is set to off. (P.26) • 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...	<ul style="list-style-type: none"> • Aim Remote Control directly at remote sensor on VCR. (P.38) • Avoid any object blocking signal path. • Check remote batteries. (P.4) • Make sure VCR LOCK is set to off. (P.26) • Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons cannot be used...	<ul style="list-style-type: none"> • Press VCR button for VCR mode. (P.14) • Check remote batteries. (P.4)
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none"> • Set VCR/TV selector to "TV." (P.9) • Make sure proper signal source is selected.
Video cassette cannot be inserted...	<ul style="list-style-type: none"> • Insert the cassette with window side up; record tab facing you. • Insure no other tape is inside unit.
Video cassette cannot be removed...	<ul style="list-style-type: none"> • Completely insert Power Plug into AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none"> • Make sure cassette rec tab is intact. (P.30)
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none"> • To enable Quick play mechanism, the cylinder will rotate for about 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...	<ul style="list-style-type: none"> • 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 servicer, please call toll free 1-800-211-PANA (7262).

Service Center List

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

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

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

Accessory Purchases:

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

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue
Cypress, CA 90630

800 Dubuque Avenue
S. San Francisco,
CA 94080

20201 Sherman Way
Suite 102
Canoga Park, CA 91306

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO

1640 South Abilene Street
Suite D
Aurora, CO 80012

FLORIDA

3700 North 29th Avenue
Suite 102
Hollywood, FL 33020

GEORGIA

8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS

9060 Golf Road
Niles, IL 60714

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

MARYLAND

62 Mountain Road
Glen Burnie, MD 21061

MASSACHUSETTS

60 Glacier Drive
Suite G
Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue
Sterling Heights, MI 48312

MINNESOTA

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

OHIO

2236 Waycross Road
Civic Center Plaza
Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd. West
Suite B
Langhorne, PA 19047

Chartiers Valley
Shopping Center
1025 Washington Pike
Bridgeville, PA 15017

TENNESSEE

3800 Ezell Road
Suite 806
Nashville, TN 37203

TEXAS

7482 Harwin Drive
Houston, TX 77036

13615 Welch Road
Suite 101
Farmers Branch,
TX 75244

WASHINGTON

20425-84th Avenue South
Kent, WA 98032

HAWAII

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

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicer:

Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

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):

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

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

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

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

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

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

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

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

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

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

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

warvid 10/20/97

Para ajustar el idioma, canal y reloj

1 Encienda el televisor y la videogradora.
Presione POWER.

2 Sintonice el televisor al canal de salida de la videogradora.

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

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

3

SELECT LANGUAGE

PUSH VCR CH ▲: ENGLISH

OPRIMIR VCR CH ▼: ESPAÑOL

APP. VCR/TV : FRANÇAIS

Seleccione el lenguaje.

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.

4

FIJACION AUTO. (CA/RELOJ)

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

POR FAVOR OPRIMIR CH UP

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

Presione CH▲.

↓

AUTOPROGRAMACION EN PROCESO

↓

FIJACION AUTOMATICA DEL RELOJ EN PROCESO

Caso 1 ↓ (Ajuste terminado)

1/ 4/2000 MAR 12:00PM

HORA VERANIEGA:ACT

CANAL FIJADO : CA 02

FIJACION AUTOMATICA

COMPLETO

TERMINAR:OPRIMIR CH UP

Caso 2 ↓ (Ajuste sin terminar)

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO

OPRIMIR ACTION PARA FIJAR EL RELOJ

Presione CH▲ para salir.

Caso 2 El ajuste del reloj es incompleto.

Ajuste el reloj manualmente.

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

Ajustar de nuevo el reloj

1 Presione ACTION para exhiba el menú.

2

----- MENU -----

PREPARAR VCR

FIJACION DE FUNCIONES

FIJAR RELOJ

FIJAR CANAL

LANGUE/ LANGUAGE: ESPAÑOL

ELEGIR: ▲ ▼

FIJAR : ►

TERMINAR: ACTION

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

3

----- FIJAR RELOJ -----

FIJACION AUTOMATICA

MANUAL

AJUSTE ZONA HORA : 0

ELEGIR: ▲ ▼

FIJAR : ►

TERMINAR: ACTION

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

4

-----FIJAR RELOJ-----

1/ 4/2000 MAR 12:00PM

VERANO:ACT/

ELEGIR HORA

ELEGIR: ▲ ▼

FIJAR : ◀ ▶

TERMINAR: ACTION

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

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

Operaciones básicas para la reproducción

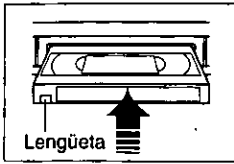
1 Inserte un casete.

- La videogradora 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 videogradora.

Operaciones básicas para la grabación

- 1**  **Inserte un casete.**
 • La videograbadora se enciende automáticamente.

2 Seleccione el canal.

Presione CH ▲▼ o las teclas numéricas correspondiente.

3 Seleccione la velocidad de grabación.

Presione SPEED.

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

4 Comience la grabación.

Presione REC/TIME.

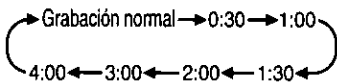
- Presione PAUSE para hacer una pausa en la grabación en progreso.

■ **Para parar** ----> Presione STOP.

■ **Grabación de un toque**

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

- La videograbadora termina la grabación a una hora programada.



Programación fácil para la grabación con temporizador

- 1** Exhiba el menú. Exhiba la pantalla de la programación.
 Presione ACTION.

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

- 2**  **Exhiba "FIJACION DE FUNCIONES."**

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

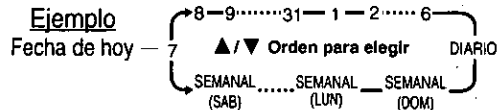
- 3**  **Exhiba "TEMPORIZADOR."**

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

- 4**  **Ajuste la fecha de grabación.**

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

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



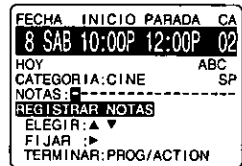
Repita el paso 3 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), categoría*, velocidad (SP, LP, SLP).

*Categoría
 NO, DEPORTE, CINE, COMEDIA, MUSICA, DRAMA

- 5**  **Haga las anotaciones necesarias.**

- Si no fueran necesarias, vaya al paso 6.

- 1) Presione ▲ para hacerlas.
- 2) Presione ▲▼ para seleccionar.
- 3) Presione ► para ajustar.
- 4) Presione PROG (o ACTION) para salir.




- 6**  **Termine el programa.**

- 1) Presione PROG (o ACTION).

Para introducir más programas.

Presione ▲▼ y ► para seleccionar y ajustar el número de programa en blanco. Luego repita los pasos 4 y 5.

- 2) Presione PROG (o ACTION) para salir.

- 7**  **Grabación con temporizador.**

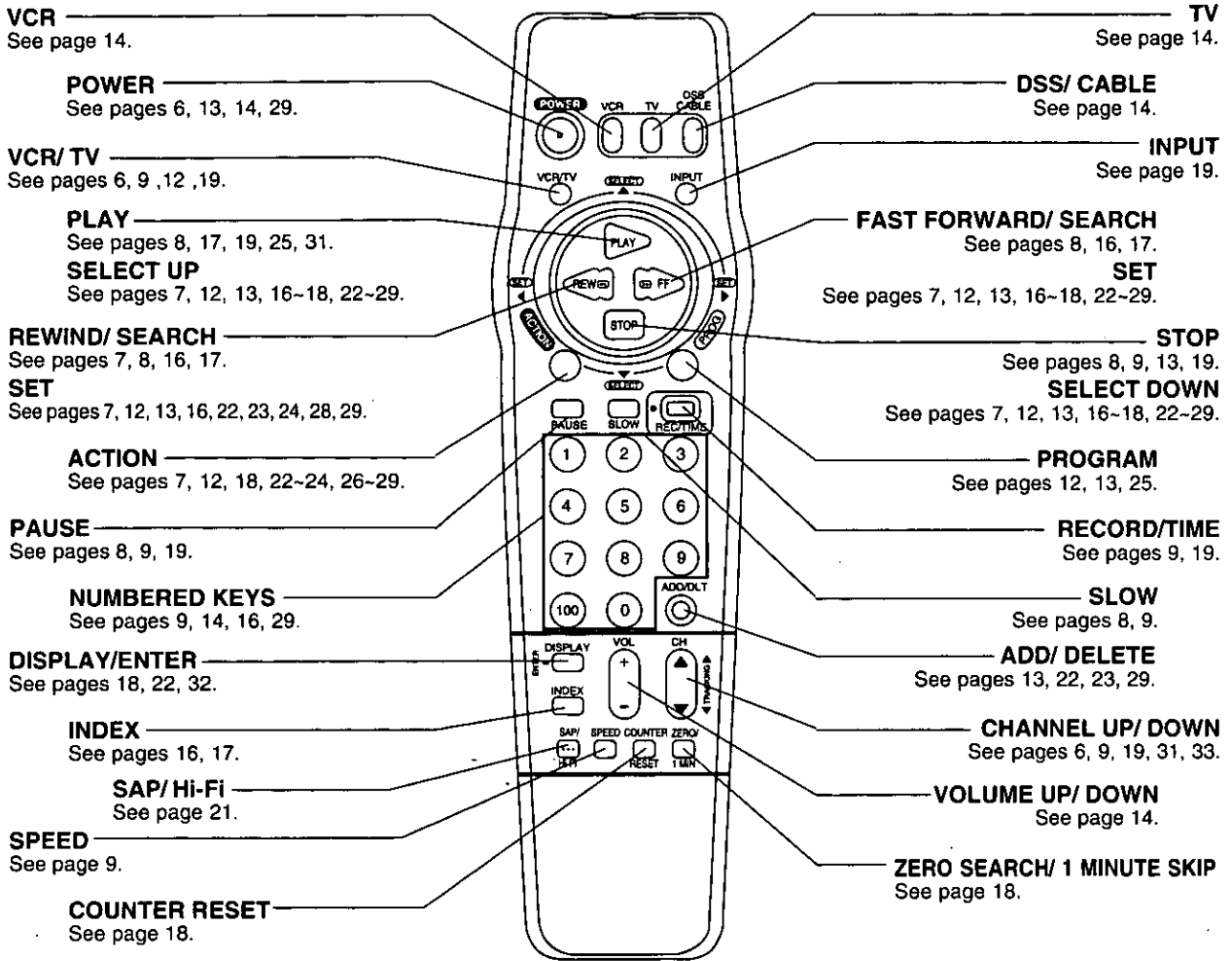
Presione POWER para apagar.

Pantalla multifuncional

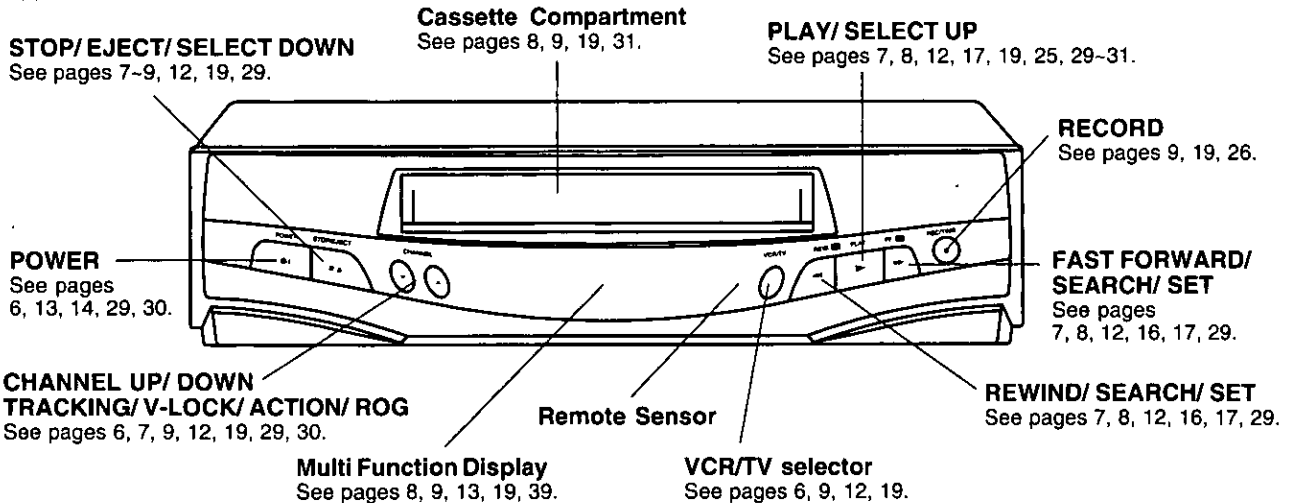
- Si la fuente de la grabación es una caja de TV por cable, asegúrese de que la caja de TV por cable esté encendida y esté sintonizada al canal que desea grabar.

Location of Controls

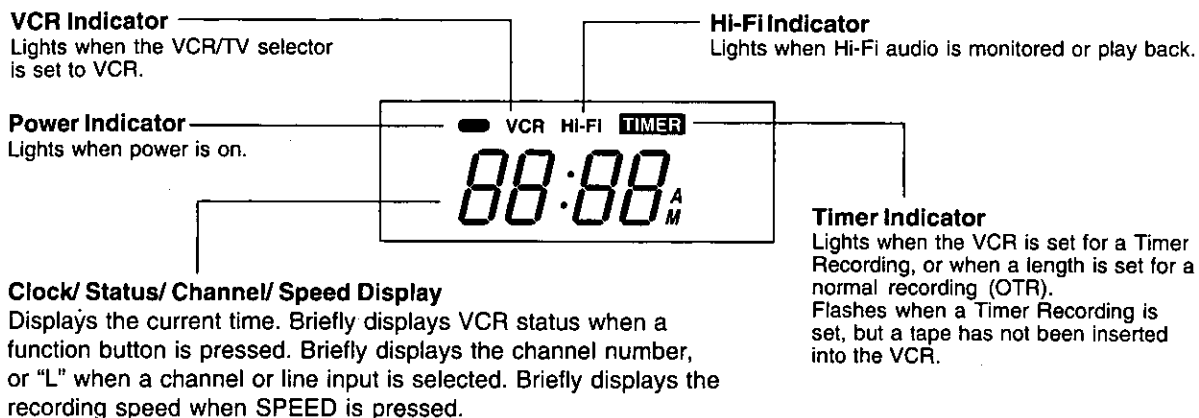
Remote control Buttons



Front View of the VCR



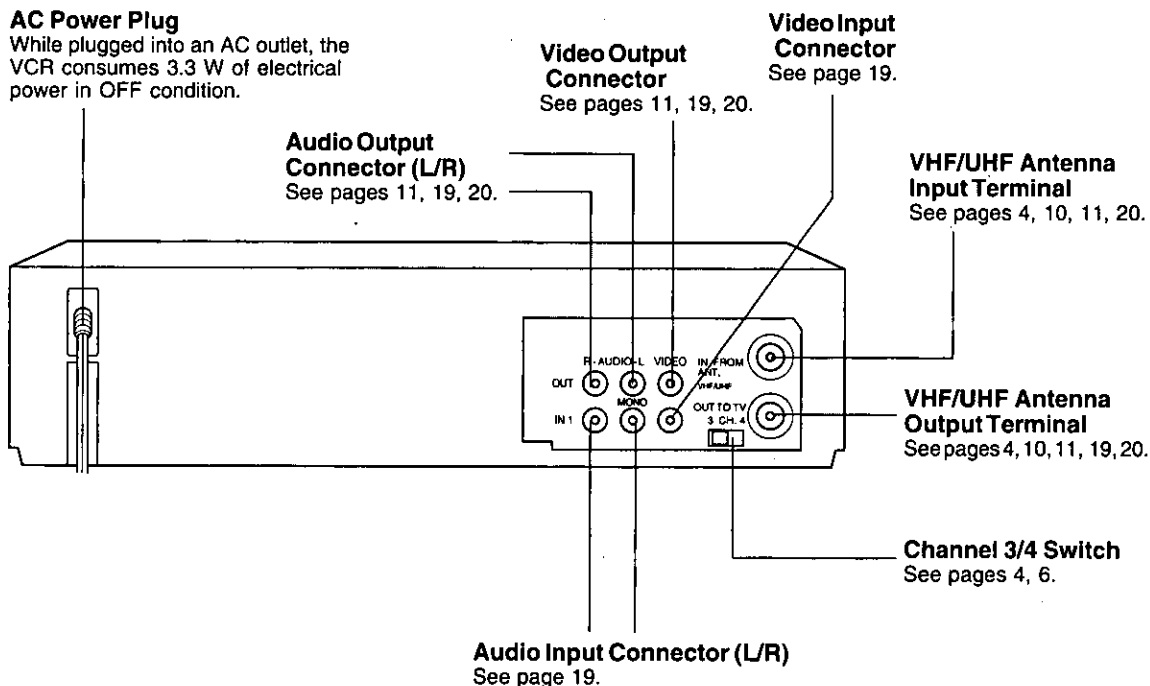
Multi Function Display



Rear View of the VCR

AC Power Plug

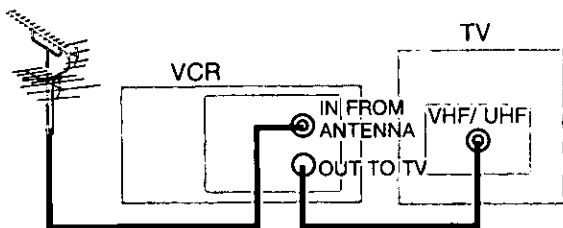
While plugged into an AC outlet, the VCR consumes 3.3 W of electrical power in OFF condition.



Quick Use Guide

Playback a Tape

- 1** 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.



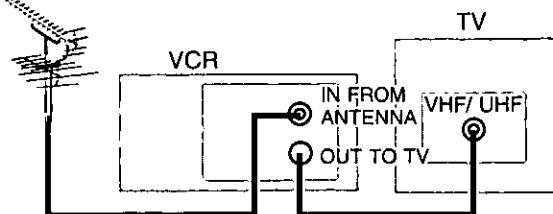
Insert a tape



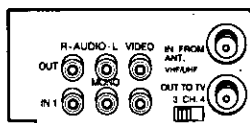
Press PLAY (Start playback)

Record on a Tape

- 1** 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.

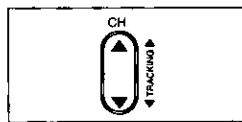
- 3** Do "One Time VCR Setup" on page 6.

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

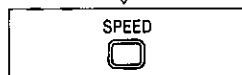
- 4** Record on a Tape.



Insert a tape with Record Tab



Press CH Up/Down. (Select Channel)



Press SPEED. (Select speed)



Press REC. (Start Recording)