

Things You Should Know

Congratulations

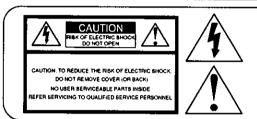
on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information at right. The serial number is on the tag located on the back of your VCR.

Safety Precautions

Date of Purchase	
Dealer Purchased From	
Dealer Address	
Dealer Phone No	
Model No PV-S7670	
Serial No	

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. This video recorder, equipped with the HQ System, is compatible with existing VHS equipment. Only use those tapes with the <u>VHS</u> or <u>SVHS</u> mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used. This video recorder is equipped with recording functions for both conventional <u>VHS</u> and <u>SVHS</u> systems to enable users to select either mode. An <u>SVHS</u> cassette recorded in the <u>SVHS</u> mode cannot be played back with conventional <u>VHS</u> VCRs.

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



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

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

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A 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 Compa

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:

a. Never cover ventilation slots or the unit while in use,

- or operate the unit when placed on a bed, sofa, rug, or other soft surface. b. Avoid built-in installation, such as a book case or rack,
- unless proper ventilation is provided.

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.
- Support for the unit should be firm, level, and adequately strong.
- 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.



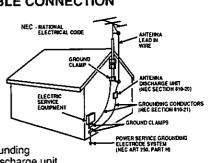
 Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

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

Unpacking Your VCR • Product Features

Loading the Batteries

Push in and up on the latch with your

the lid.

thumb nail and lift off

Install three batteries

as indicated inside the

Battery Compartment.

Fit the lid's hinge

piece into the indent

Battery replacement caution

· Do not mix old and new batteries.

· Do not mix alkaline with manganese batteries.

on the case, and snap the lid into place.

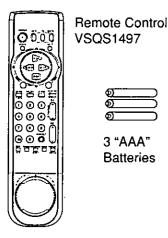
Unpacking Your VCR

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

3 "AAA"

Batteries

Accessories



S-VHS Connecting Cable VJAS0148

RF Coaxial Cable

VJAS0183

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

Product Features

Advanced Noise Reduction 19 All Channel Auto Set/ 181-CH TV/CATV Tuner 14, 15, 16 Auto Clock Set 14, 15, 16 Auto Features for a Quality Picture 19 Auto Operation Functions (Auto Playback, Rewind, Tape Eject, Power off) 25 Digital Auto Picture 19 Easy-to-Read English/Spanish/French On-Screen Displays 14~17, 22, 23 One Minute Skip 25 One Month, 8 Program Timer Recording 22, 23 Shuttle Search 25 Spatializer 31 Special Effects Playback 19 VHS Hi-Fi Stereo System 31 Zero Search 24



VCR and Cassette Information

Erase Protection (Record Tab)

Cassettes have a record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure, break off the tab with a screwdriver.



To record again, cover the hole with cellophane tape.



Maximum Record/Playback Time

Only use tapes with the VHS or SVHS mark in this unit.

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

Build-in Head Cleaner

A clean video head helps produce a clear picture. So, 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. Note: 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.

Head Cleaning

Your VCR will not normally require head cleaning however the heads may become clogged when playing an old or damaged tape.

Video Heads Sensor System

If head cleaning becomes necessary, the VCR will display the screen at right while playing back a recorded signal. To exit this screen, push PLAY on the remote control or VCR.

- Use "dry" type head cleaning cassette* only.
- · Be sure to follow the cleaning tape instructions carefully. Excessive use of a cleaning cassette can shorten head life.

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

END: PLAY KEY

- If using a head cleaning cassette does not solve the problem, contact your nearest Factory Service Center or authorized Service Center.
- Cleaning cassette part No. NV-TCL30PT is recommended.

Reset all VCR Memory Functions

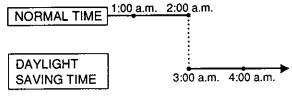
Use when moving the VCR to a new location, or if a mistake was made in the One Time VCR Setup section. Make sure a tape is not inserted in the VCR.

- 1) Turn VCR Power on.
- 2) Push and hold both PLAY and CHANNEL A on the VCR for more than 5 seconds. The power will shut off.
- 3) Perform the One Time VCR Setup section on page 14.

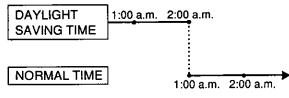
D.S.T. (Daylight Saving Time)

Spring (First Sunday in April)

When the VCR is set to DST:ON, it automatically adds one hour and adjusts the clock.



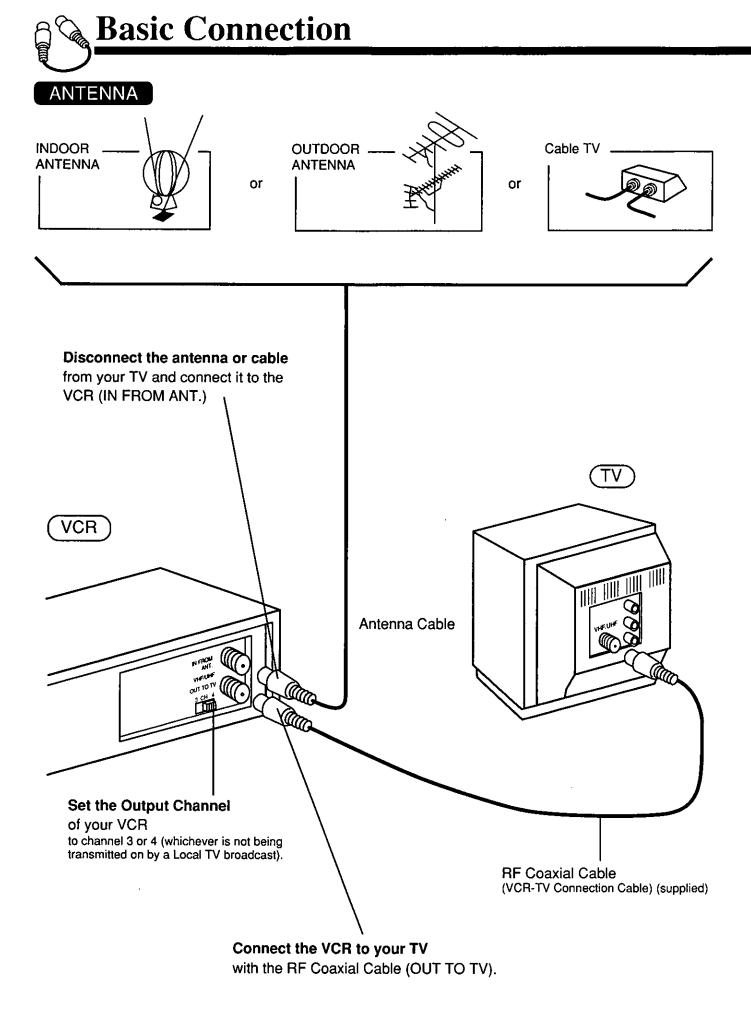
Autumn (Last Sunday in October) When the VCR is set to DST:ON, it automatically turns back one hour and adjusts the clock.



Specifications

Power Source:	120V AC, 60 Hz
Power Consumption:	Approx. 28 watts (Power on)
•	Approx. 10 watts (Power off)
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical
	scanning system
Audio Track:	1 track (Normal)
Addio Haok.	2 channel (Hi-Fi Audio Sound)
Tuner:	
Broadcast Channels:	VHF 2~13, UHF 14~69
CATV Channels:	Midband A through I (14~22)
CATA Channels.	Superband J through W (23~36)
	Hyperband AA~EEE (37~64)
	Lowband A-5~A-1 (95~99)
	Special CATV channel 5A (01)
0.10000	Ultraband 65~94, 100~125
S-VIDEO Input/	S-VIDEO CONNECTOR
Output Level:	(SEPARATED YC CONNECTOR):
	Y CONNECTOR 1.0 Vp-p,
	75 ohm unbalanced
	C CONNECTOR 0.286 Vp-p,
	75 ohm unbalanced
Operating Temperature:	41°F~104°F (5°C~40°C)
Operating Humidity:	10%~75%
Weight:	7.7 lbs. (3.5 kg)
Dimensions:	16-15/16" (W) x 3-7/8" (H) x
	11-13/16" (D)
	430 (W) x 98 (H) x 300 (D) mm

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

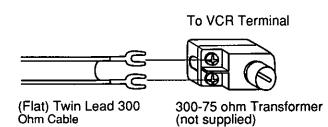


WARNING -

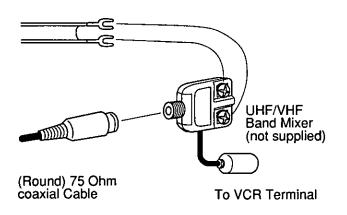
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

Between Antenna and VCR

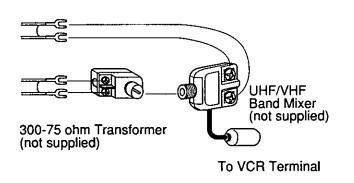
Case 1: Twin Lead Cable Only



Case 2: Twin Lead & Coaxial Cables



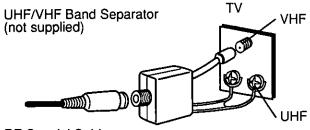
Case 3: Two Twin Lead Cables



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

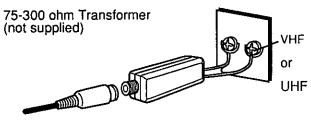
Between VCR and TV

Case 1: Screw & Plug Type Terminal

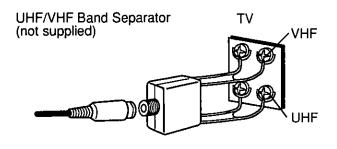


RF Coaxial Cable

Case 2: Screw Type Terminal TV

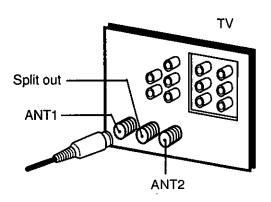


Case 3: Double Screw Type Terminal



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.

Additional Connections

CATV(Cable) Connections

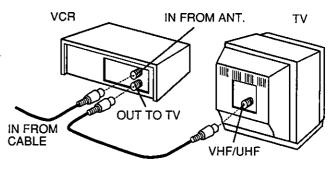
All connections on this page are made with 75 Ohm coaxial cables.

Without a Converter/Descrambler Box

You can:

- 1) Use your VCR Remote Control to select channels.
- 2) Program one or more unscrambled channels for unattended recording.

You cannot: record or view scrambled channels with this connection.

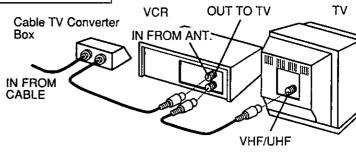


With a (CABLE to VCR) Converter/Descrambler Box

You can:

- Record and view any channel including scrambled channels; channel selection must be made at the Cable TV Converter Box.
- 2) Program one channel for unattended recording.

You cannot: select channels from VCR or TV.



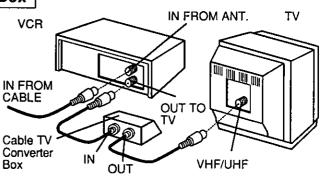
With a (VCR to TV) Converter/Descrambler Box

You can:

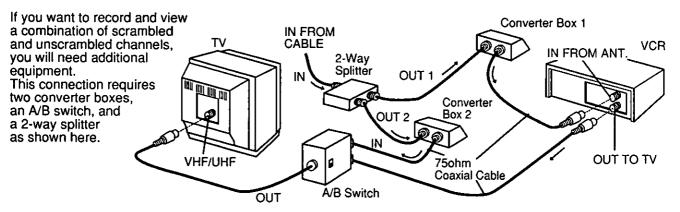
- 1) Use your VCR Remote Control to select channels.
- 2) Program unattended recordings of more than one unscrambled channel.

You cannot:

record scrambled channels with this connection.





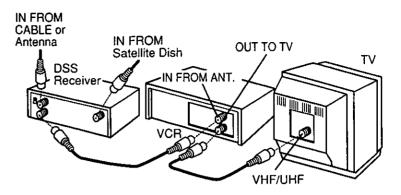


With a DSS Receiver

You can:

- Record and view any channel including scrambled channels; channel selection must be made at the DSS Receiver.
- 2) Program one channel for unattended recording.
- NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.

Audio/Video Connections



If your TV has AUDIO IN and VIDEO IN terminals, you can connect your

VCR to them to receive a higher quality picture and sound. If your TV is not

**DSS[®] is a registered trademark of DIRECTV, INC., a unit of GM Hughed Electronics.

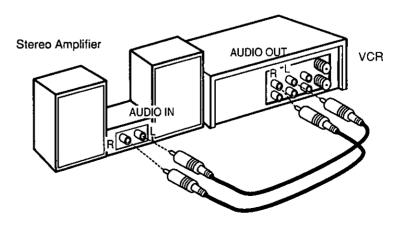
Audio/Video Connections

- 1 Connect the VIDEO OUT terminal on the VCR to the VIDEO IN terminal of your TV.
- 2 Connect the "L" and "R" AUDIO OUT terminals on the VCR to the "L" and "R" AUDIO IN terminals of your TV. 3 Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."
- 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 reproduction when connecting to a monaural TV.

Stereo Amplifier Connections

When you connect your VCR to a Stereo Component System, you can view the picture from the VCR while enjoying stereo from your audio system.

Connect the "L" and "R" AUDIO OUT terminals on the VCR to the "L" and "R" AUDIO IN terminals of your stereo.

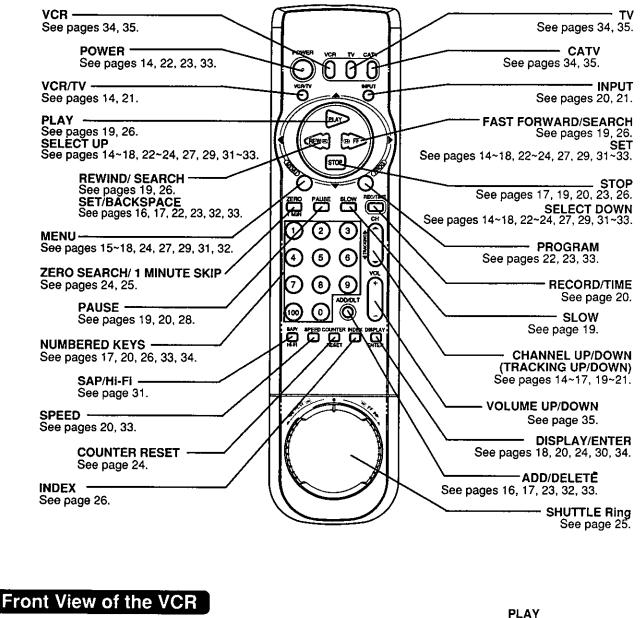


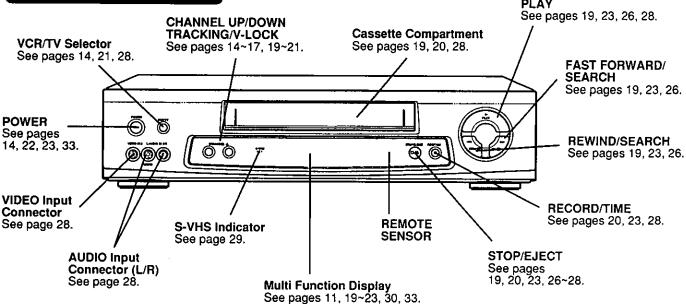
Note to CATV system installer:

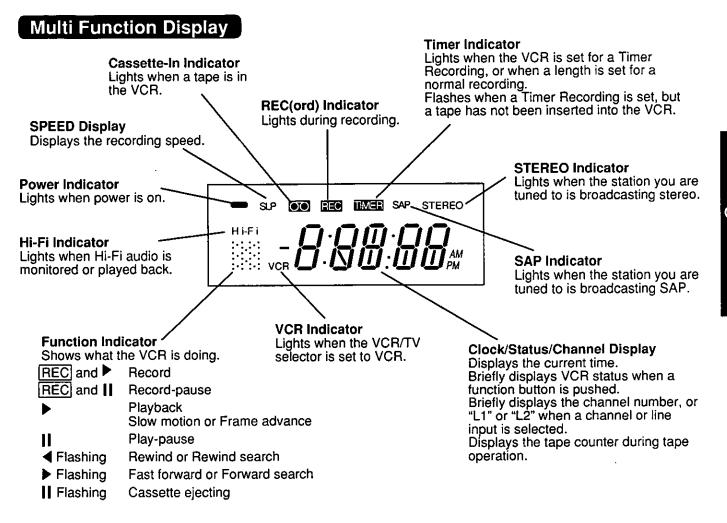
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the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



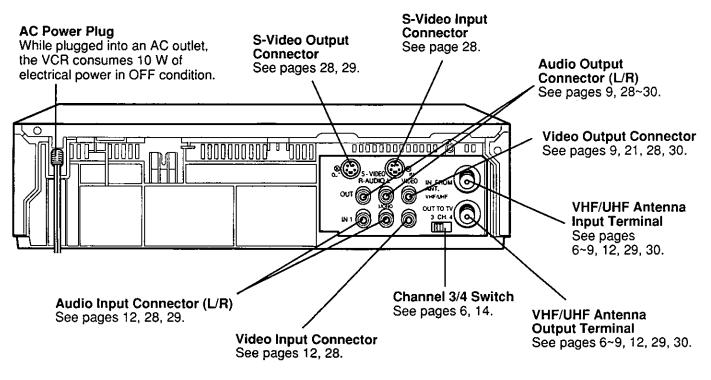
Remote Control Buttons







Rear View of the VCR



One Time VCR Setup

The setup on pages 14 through 16 is vital for proper VCR operation. Please read the instructions carefully and in the order presented.

NOTE: These first two pages contain reference material needed for setup on pages 14 ~16. Please look over the information before you begin setup procedure.

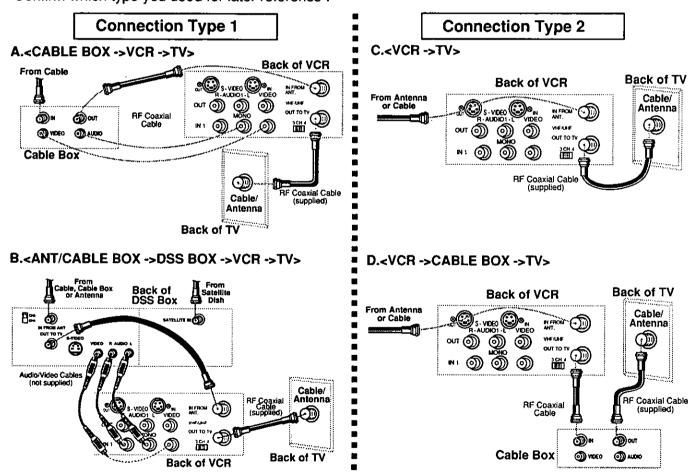
Setup Overview

You will be performing the following tasks:

- Setting the language you want on-screen displays to appear in (English, Spanish, French).
- Telling the VCR what kind of equipment you are using to receive channels and how it is connected.
- Entering pertinent cable box or DSS receiver information if used.
- Entering a local PBS channel so that the VCR can receive auto clock set data. (Not available in all areas.)
- · Placing channels in memory and setting the clock.

Please Note Which Connection Type You are Using.

Make sure all equipment is hooked up as described on pages 6~9. The diagrams below illustrate some of the basic connection types. Confirm which type you used for later reference.



ONE TIME SETUP IMPORTANT NOTES:

- · For detailed DSS receiver connection instruction, please see your DSS operating manual.
- The DSS receiver must be turned off to view programs from the cable box or antenna.
- If you use a DSS receiver, it must be turned off for auto clock set.
- If your cable box is not remote controllable, it must be tuned to your PBS channel.
- If you use Audio/Video Jack connection between the VCR and cable box or DSS receiver, you must also connect the RF coaxial cable in order to use the auto clock set and channel auto set features.

Cable Box/ DSS Receiver Code Number List

If your cable box or DSS receiver is remote controllable, refer to this list during setup on page 14.

Cable Box

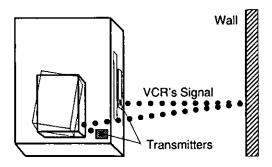
Brand	Code Numbers
Archer	01, 29, 44, 88, 91
Cableview 3	0, 42, 44, 52, 63, 88
Citizen	0, 42, 44, 52, 63, 88
Curtis 0	
Diamond	
Drake	
Eagle 13, 2	
Eastern	
GC Brand3	
Gemini	
General Electric	
General Instruments	
Hamlin	
Hitachi	-
Jerrold 01, 02, 03, 04, 34, 5	
Macom	
Magnavox	
Movietime	
NSC	
Oak	
Panasonic Philips	
Pioneer	
Pulsar	
RCA	
Realistic	
Regal	
Regency	

Descrit	Cada Numboro
Brand	
Rembran	
Salora	
Samsung	32, 40, 42, 78, 94
Scientific Atlantic	
Sheritech	
SL Marx	
Spucer	
Stargate 30, 32, 40, 42,	
Sylvania	
Telecaption	
Teknika	
Teleview	32, 40, 42, 78, 94
Texscan	
Tocom01,	
Toshiba	
Uniden Satellite	
Unika	
Universal	
Viewstar 13,	
Vid Tech	
Vidter	
Videoway	07, 23, 50
Zenith	07, 23, 50
DSS (Digital Satellite Sys	stem Receiver)
Sony	
RCA	
Panasonic	

Note: During setup you will be instructed to enter your brand code number. As some brands have multiple codes, it may be necessary to try different codes to attain the proper results. These codes are for Cable box or DSS Box setup for Auto Clock and VCR Plus+ recording only. For TV/Cable Box Multi-Brand Control operation, please see page 34.

Positioning Your Cable Box or DSS Receiver

If your cable box or DSS receiver is remote controllable, place it on or near the VCR as shown in the example below. The VCR transmits an infrared signal from two locations. Be sure not to cover the transmitter windows.



When the VCR power is first turned on, the language select screen appears automatically. Follow along in the manual as you guided are through the setup procedure on the screen.

000

(1)

[%]

MENU

Turn TV and VCR on. POWER Check list before you begin. 0 All TV and VCR connections are made. (See pages 6~9.) Tune TV to VCR output channel (the same one you set on the back of the VCR; CH3 or CH4). Push CH A for Back of VCR English on-screen PUSH VCR CH A: ENGLISH 0000 C 20 0000 displays. 11 5.0 PULSE VCR CH ▼: ESPAÑOL õ 000 :::0 or APP VCR/ TV Push CH ▼ for Spanish on-screen displays. If wrong language or is set, see the Push VCR/TV for "Reset all VCR VCR/TV Memory Functions" French on-screen section on page 5. displays. 0 0 0· You can also set the language using the buttons on the VCR. 2 The VCR should be connected to an antenna or cable box (page 6~9). æ 🗩 **E** Push ▲▼ to select SELECT HOOKUP CABLE/DSS BOX-VCR>IV VCR>CABLE/DSS BOX>TV VCR>TV your hookup, and 75 15 õ then push 🕨 to set. 00 (Refer to page 12.) 00 SELECT: A V KEY If you selected CABLE/ SET END DSS BOXEVCRETV, 00 ണ continue with step 5. If not, go to Alternate <u>, 7 0 0 0 0</u> Instructions on page 16. Push ▲▼ to select SELECT HOOKUP CABLE/DSS BOX+VCA+TV your cable box or DSS receiver output CABLE/DSS BOX OUTPUT CH channel number, and then push to enter. SELECT:▲ ▼ KEY SET :◀ ► KEY END If necessary, refer to your cable box manual. If both a cable box and DSS receiver are used, set the output channel of the DSS receiver. If you are using Audio/Video jack connections to your cable box, select and set "VIDEO OUT" as the output channel. Using $\blacktriangle \lor \blacklozenge \lor$ keys Push ▲▼ to select your cable box or DSS Whenever a menu or receiver code number, program screen is displayed. and then push b to the PLAY, STOP, REWIND, enter. (Refer to the list and FF buttons on the remote on page 13.) control function as $\mathbf{A} \mathbf{\nabla} \mathbf{A} \mathbf{\nabla}$ only. For play, stop, rewind, and fast forward

ENTER CODE NUMBER REFERRING TO MANUAL 01 SELECT:▲ ▼ KEY SET :► KEY END :MENU KEY

:► KEY MENU KEY

MENU KEY

SELECT LANGUAGE

FRANCALS

 If your cable box or DSS receiver doesn't have a remote control, select "NO REMOTE." Then, go to Alternate Instructions on page 16.

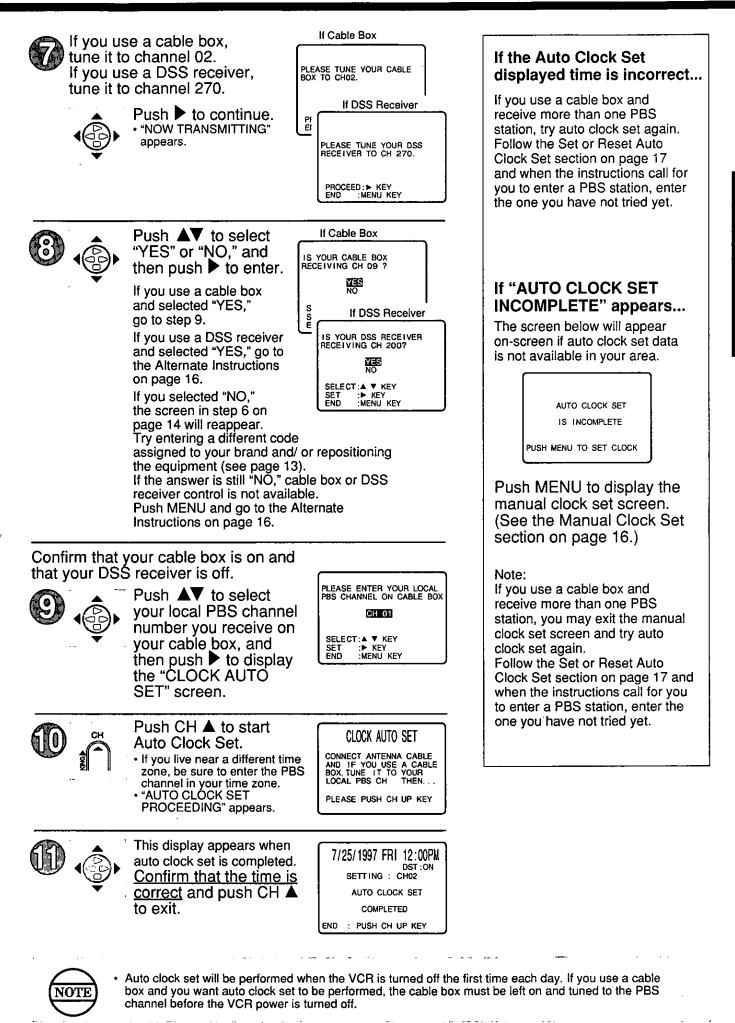
On Screen Language, Cable/ DSS

and Auto Clock

Receiver Setup, Channels Memory,

 This determines whether the VCR will control your cable box or DSS receiver.

functions, use the buttons on the VCR.



Alternate Instructions

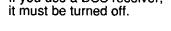
Complete the following steps if, any of the following applies:

- A You selected connection type 2 (VCR►CABLE/ DSS BOX►TV or VCR►TV) in step 4 on page 14.
- B You selected "NO REMOTÉ" in step 6 on page 14 (your cable box or DSS receiver is not remote controllable).
- C You use a DSS receiver and selected "YES" in step 8 on page 15.
- D Cable Box or DSS receiver could not be controlled in step 8 on page 15.



Turn on the cable box and set it to the local PBS channel.

If you live near a different time zone, make sure to set the channel in your time zone.
If you use a DSS receiver,



CHANNEL/CLOCK AUTO SET CONNECT ANTENNA CABLE BOX.TUNE IT TO YOUR LOCAL PBS CH THEN... PLEASE PUSH CH UP KEY



Push CH ▲ to start Channel Auto Set and Auto Clock Set.
The following messages appear.

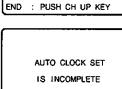
"CH AUTO SET PROCEEDING" "AUTO CLOCK SET PROCEEDING"

This screen appears to confirm that auto clock set is completed.



<u>Confirm that the</u> <u>time is correct</u> and push CH ▲ to exit this screen.

If this screen appears, auto clock set is not available in your area. Please set the clock manually as described at right.



7/25/1997 FRI 12:00PM

SETTING : CHO2

AUTO CLOCK SET

COMPLETED

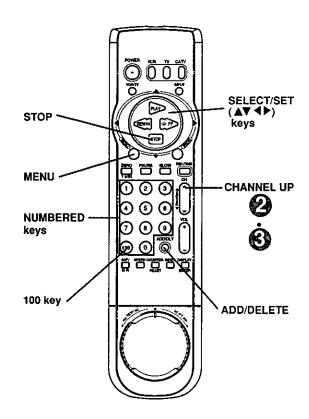
DST :ON

PUSH MENU TO SET CLOCK

If the displayed auto clock set time and D.S.T. are not correct

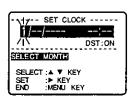
If you live close to two different time zones, the VCR may recognize the wrong PBS station as the setting channel. If this happens, please complete the following steps.

- 1 Make a note of the SETTING: CH number shown on screen and push CH ▲ to exit.
- 2 Delete the setting channel form channel memory. (See the Add or Delete a Channel section on page 17.)
- 3 Push MENU to display the menu.
- 4 Push ▲▼ to select "SET CLOCK," and then push ► to display the "SET CLOCK" screen.
- 5 Push ▲▼ and ▶ to select and set "AUTO SET."
- 6 Follow the One Time VCR Setup instructions on pages 14~16.
 If you use a cable box and have multiple PBS stations, tune the cable box to a different PBS station and try auto clock set again using the menu.



Manual Clock Set (In case Auto Clock Set could not be performed)

- 1 Push MENU to display the SET CLOCK screen.
- 2 Push ▲V and ◀► to select and set the month, date, year, time, and D.S.T. (Daylight Saving Time).



· See page 5 for DST.

To Make Corrections,

repeatedly push **∢** ► to move the cursor to the incorrect entry and make the correction.

3 Push MENU twice to <u>start the clock</u> and exit this mode.



To Change On Screen Display Language

- 7 Push MENU to display the menu.
- 2 Push $\blacktriangle V$ to select the language. English: LANGUAGE Spanish: IDIOMA French: LANGUE

MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL IDIOMA/DANGUS: ENGLISH
ID TOMATICANGUE ENGLISH
SELECT : A V KEY
SET : KEY
END MENUKEY

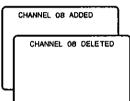
- 3 Push ▶ repeatedly to change the language. English ---> Spanish ----French
- 4 Push MENU to exit this mode.

To Add or Delete a Channel

1 Select a channel using the NUMBERED keys to add or CH ▲/▼ to delete.

 ${m 2}\,$ Push ADD/DLT to add or

delete the channel.



 To select a channel once it's deleted, use the NUMBERED keys on the remote control. Deleted channels will flash in the Multi Function Display on the VCR when selected.

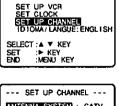
When Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first push the 100 key and then enter the remaining two digits. For example, to select channel 125: Push NUMBERED keys 100, then 2, then 5.

To Replace Channels in Memory

In case you have cable installed, etc.

- **1** Push MENU to display the menu.
- 2 Push ▲▼ to select "SET UP CHANNEL," and then push ► to display the "SET UP CHANNÉL" screen.
- 3 Push ▲▼ to select "ANTENNA SYSTEM," and then push ▶ to set your antenna system (TV or CATV).



----- MENU ------

ANTENNA SYSTEM : CATV AUTO SET CABLE/DSS BOX SET UP VCR Plus+ CH SET UP SELECT:A V KEY 4 Push ▲▼ to select "AUTO MENU KEY SET

SET," and then push ▶ to display the "CHANNEL/CLOCK AUTO SET" screen. · To exit this mode, push MENU twice.

- 5 Follow the One Time VCR Setup instructions on pages 14~16.
 - Clock Auto Set will be performed when channels are replaced in memory. To cancel, push STOP when "AUTO CLOCK SET PROCEEDING" appears on-screen.

To Set or Reset the Clock

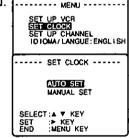
In case the clock is wrong, or a power failure occurred.

- 1 Push MENU to display the menu.
- 2 Push ▲▼ to select "SET CLOCK," and then push ▶ to display the "SET CLOCK" screen.
- 3 Push ▲▼ to select "MANUAL SET," and then push ▶ to display the SET CLOCK screen.
- 4 Push ▲▼ and ◀▶ to select and set the date, time, and D.S.T. (Daylight Saving Time).
- 5 Push MENU twice to start the clock and exit this mode.

To Set or Reset Auto Clock Set Complete the following steps if:

Auto clock set displayed time was incorrect.

- Auto clock set was not available at first, but has since become available.
- The PBS channel over which clock data is sent was changed by the broadcast company.
- 1 Push MENU to display the menu.
- 2 Push ▲▼ to select "SET CLOCK," and then push ▶ to display the "SET CLOCK" screen.
- 3 Push ▲▼ and ▶ to select and set "AUTO SET.'
- 4 Follow the One Time VCR Setup instructions on pages 14~16.



----- MENU -----

----- SET CLOCK ------

auto set Manual set

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

----- SET CLOCK 1/ 4/1997 SAT 12:00PM

SELECT HOUR

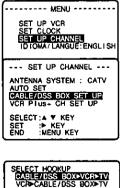
SELECT:▲ ▼ KEY SET :◀ ► KEY END :MENU KEY

(PO: 78)

SET UP VCR SETICLOCK SET UP CHANNEL ID IOMA/LANGUE:ENGLISH

To setup the VCR in case a cable box or DSS receiver was installed or replaced

- **1** Push MENU to display the menu.
- 2 Push ▲▼ to select "SET UP CHANNEL," and then push to display the "SET UP CHANNEL" screen.
- 3 Push ▲▼ to select "CABLE/ DSS BOX SET UP." and then push to display the "SELECT HOOKUP" screen.
 - To exit this mode, push MENU three times.
- 4 Push ▲▼ and ▶ to select and set "CABLE/DSS BOX▶VCR ▶ TV," and then continue with steps 5~8 on pages 14 and 15.





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NOTES

This VCR will accurately maintain its calendar up to Dec. 31, 2015, 11:59PM. Normal TV or Cable channels are automatically selected and placed in memory depending on how your VCR is hooked up. ٠ If you change your cable box or DSS receiver, please perform the "To Set or Reset Auto Clock Set" section above.

On-Screen Displays (OSD)

Function & Channel Display

When a function button is pushed, 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.)

PLAY	
	WNET

SET UP VCR SET UP VCR SET UP CHANNEL SET UP CHANNEL ID 10MA/LANGUE: ENGLISH

Menu Screen

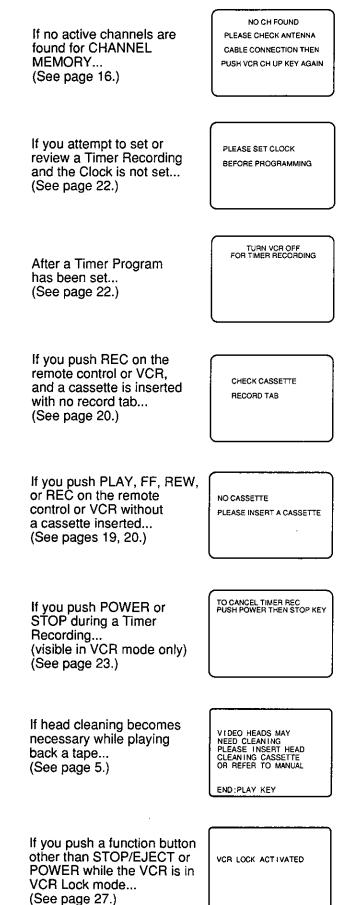
- 1 Push MENU to display the menu.
- 2 Push ▲▼ and ▶ to make your selection.

ction.	SELECT :▲ ▼ KEY SET :▶ KEY END :MENU KEY
rom each featu	re please read the

 To get the most from each feature, please read the Operating Manual before attempting any operation.

Warning and Instruction Displays

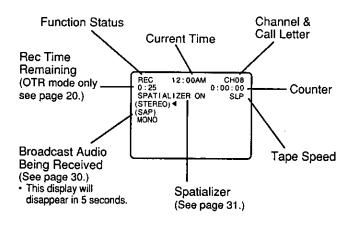
These displays will alert you of a missed operation or provide further instructions.



VCR Status & Clock Display

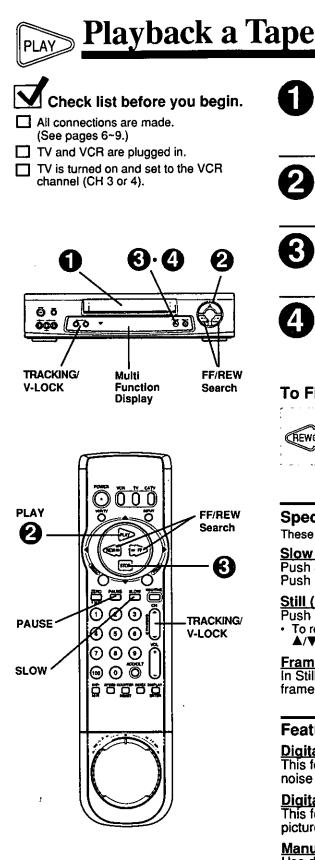


Push DISPLAY to display or remove the overlay shown below.



Blank Tape/ No Video Signal Indication

When a blank section of tape comes up in Play mode, or the selected channel has no broadcast signal, the TV screen will turn solid blue.



Caution:

Please inspect your cassette tapes for any loose or peeling labels as they may become jammed in your unit.





Insert a cassette.

VCR power comes on automatically.

-)vcr(-



Push PLAY on the remote or VCR to start playback.

Playback begins automatically if cassette has no record tab.

STOP

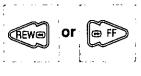
Push STOP on the remote or VCR to stop playback.



Push STOP/EJECT on the VCR to eject the cassette.

You may eject a cassette with power on or off.

To Find a Particular Scene During Playback



- Push REW or FF during playback to search for a scene.
- Search speed for SP mode tapes is 9 times and SLP mode tapes is 27 times the normal speed.
- · Some noise bars will appear during search.

Special Effects During Playback

These features work best in SP or SLP mode. The sound will be muted.

Slow Motion Playback

Push SLOW to start slow motion playback. Push PLAY or SLOW to release.

Still (Freeze) Frame Picture

- Push PAUSE to freeze and release the picture. To reduce picture noise, first push SLOW. Then, use CH (TRACKING) \blacktriangle/ ∇ to clear up the picture, then push PAUSE.

Frame by Frame Advance

In Still mode, hold down SLOW to advance the still picture one frame at a time. Push PAUSE to release.

Features for a Quality Picture

Digital Auto Picture

This feature automatically controls the video output signal for less noise depending on the tape condition.

Digital Auto Tracking

This feature 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. Push CH (TRACKING) ▲/▼ during playback until the picture clears up. To return to Auto Tracking mode, push POWER off and then on again.

V-Lock Control (to reduce picture jitter)

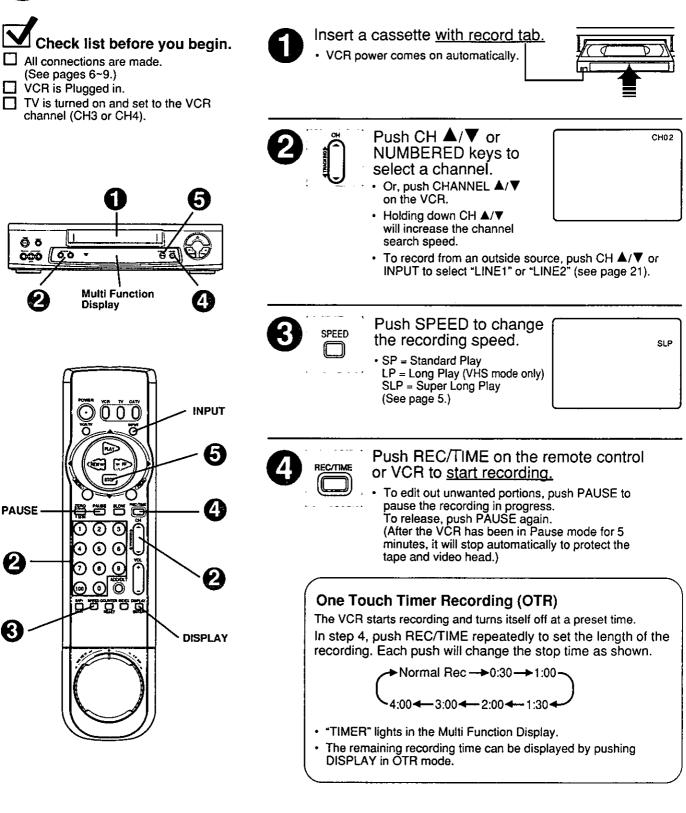
In Still mode, CH (TRACKING) ▲/▼ operate as a V-Lock control. Push \blacktriangle/ ∇ until the picture is stabilized.

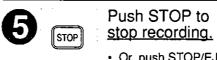
DynAmorphous™ Metal Head/ CNR (Color Noise Reduction)/ ANR (Advanced Noise Reduction) DynAmorphous[™] Metal Head increases playback and record picture quality. Color Noise Reduction reduces the color noise. Advanced Noise Reduction reduces the luminance noise.



After the VCR is in Still or Slow mode for 3 minutes, it will switch to the Stop mode automatically to protect the tape and the video head.

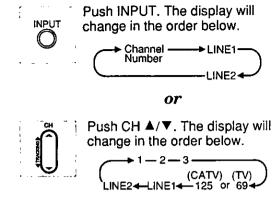




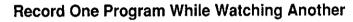


· Or, push STOP/EJECT on the VCR.

Selecting the Input Mode



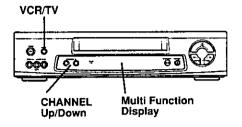
- LINE1: For rear audio/video connection. LINE2: For front audio/video connection.
- When LINE is selected, "L1" or "L2" is displayed in the Multi Function Display for about 4 seconds.

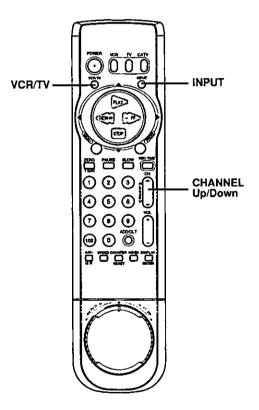


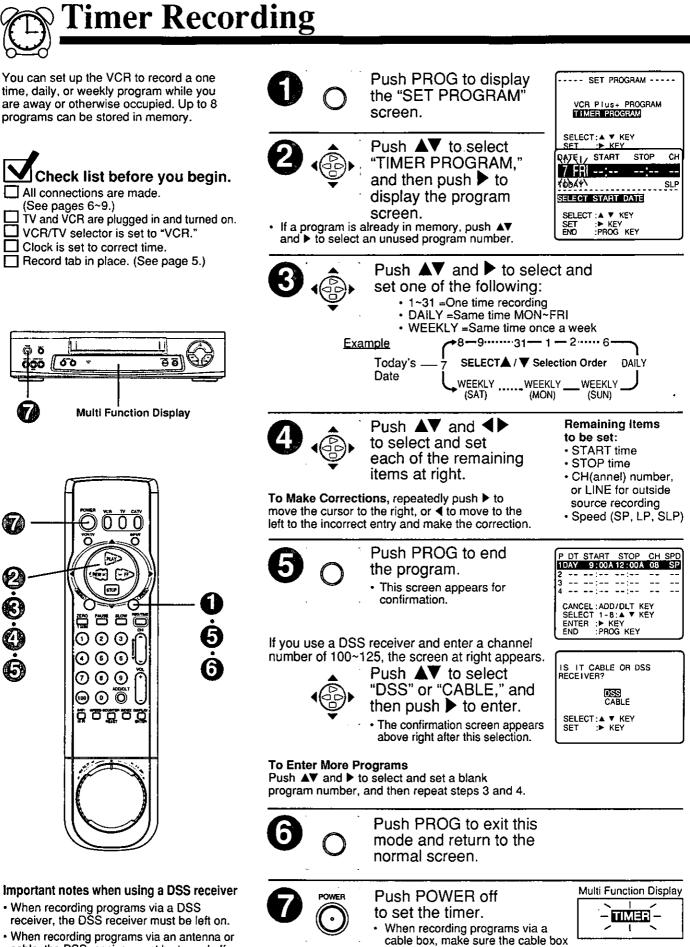
- Push VCR/TV while recording is in progress to turn off the VCR indicator in the Multi Function Display.
- 2 Use the TV channel controls to select a program. The VCR will continue to record your program while you watch any channel you choose.
 - To switch back and forth between the recording and viewing channel, push VCR/TV.

Selecting Channels at the VCR

- Turn your TV and VCR on.
 VCR Indicator lights on the Multi Function Display. If indicator doesn't light, push VCR/TV to turn it on.
- 2 Use CH ▲/▼ on the remote control or VCR to select channels.
 - To switch back to TV channel selection, push VCR/TV to turn VCR indicator off, or simply turn the VCR power off.



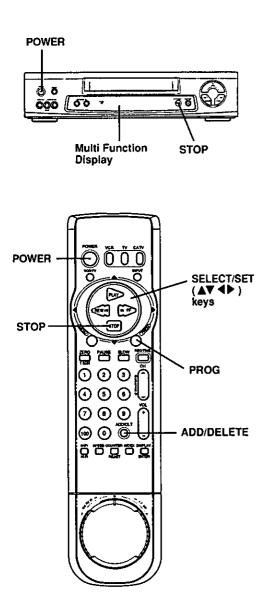




- · When recording programs via an antenna or cable, the DSS receiver must be turned off.
 - VCR, you must manually select the desired channel. A cassette with no record tab is ejected and TIMER indicator flashes when the power is turned off to set the timer.

is left on. If the cable box cannot be controlled with the

- If the start times of two programs overlap, the overlapping programs will flash on the screen. The lower numbered program will have priority.
- If the start time for a timer recording comes up during a normal recording or One Touch Recording (page 20), the timer recording will not be performed.
- If there is a power interruption of more than one minute, the recording will not be performed or continue.



Cancel a Timer Recording:

(Recording is in progress)

Push POWER and then STOP within 10 seconds to cancel the timer recording.

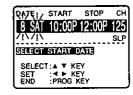
• The TIMER indicator goes out in the Multi Function Display.

Replace Program Contents:

(Recording is not in progress)

- 1 Push PROG to display the "SET PROGRAM" screen.
- 2 Push ▲▼ to select "TIMER PROGRAM," and then push ▶ to display all currently set programs.
- 3 Push ▲▼ and ▶ to select and set a program number. (See page 22.)
- 4 Push ▲▼ and ◀▶ to select and set replacement timer information.
- 5 Push PROG twice to exit this mode.

	SET PROGRAM				
	VCR Plus+ PROGRAM				
23	8 10	START 10:00P 8:00P 9:00P	12:00P 9:00P	125	SLP SP
1	ENT	ECT 1-8 ER :► K PRC	EΥ	EY	



---- SET PROGRAM -----

VCR Plus+ PROGRAM

P DT START STOP CH SPE 1DAY 9:00A 12:00A 03 SF 2 8 10:00P 12:00P 125 SLP 3 10 8:00P 9:00P 10 SP 4 SU 9:00P 10:00P L SLP

P DT START STOP CH SPD 8 10:00P 12:00P 125 SLP 10 8:00P 9:00P 10 SP SU 9:00P 10:00P L SLP

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

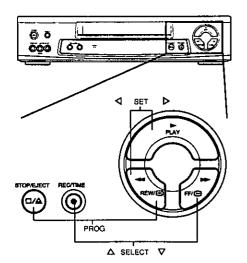
SELECT 1-8:▲ ▼ KEY ENTER :► KEY END :PROG KEY

125 10 SH L SLP

Review or Clear Program Contents:

(Recording is not in progress)

- 1 Push PROG to display the "SET PROGRAM" screen.
- 2 Push ▲▼ to select "TIMER PROGRAM," and then push b to display all currently set programs.
- 3 Push ▲▼ to select a program number.
- 4 Push ADD/DLT to clear the program.
- 5 Push PROG to exit this mode.



Timer Recording Using VCR Buttons

(Make sure a cassette tape is not inserted in the VCR.)

- 1 Hold down STOP/EJECT and push REW to enter the Program mode.
- 2 Push FF or REC/TIME repeatedly or hold down to make selections.
- 3 Push PLAY to set the item and move on. · To make corrections, repeatedly push PLAY to move the cursor to the right, or REW to move to the left to the incorrect entry and make the correction.
- **4** Push STOP/EJECT and REW together to display program contents after all items have been entered. You cannot clear programs with the VCR buttons.
- 5 Hold down STOP/EJECT and push REW, (release REW first, and then release STOP/EJECT) to exit this mode.
- 6 Insert a cassette with record tab and push POWER off to set the timer.



Your VCR is equipped with several time saving features as well as convenient automatic functions making tape operation easier than ever.

Repeat Play

The VCR will play your recording over and over.



Push MENU to display the menu.





Push ▲▼ to select "SET UP VCR," and then push ▶ to display the "SET UP VCR" screen.



Push ▲▼ to select "REPEAT PLAY," and then push ▶ to select "ON" or "OFF."



 The VCR plays back the tape to its end or until a blank portion of over 30 seconds is detected (erased portions are not considered blank). The tape is then rewound and played again and again until Repeat Play is turned off.



Push MENU twice to return to the normal screen.

Zero Search

To quickly return to a specific tape location.

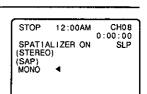


Push DISPLAY to display the Time Counter overlay.

STOP	12:00AM	CH08 0:00:30
SPATIA (STEREC (SAP) MONO	ALIZER ON)	SLP



RESET to reset the Time Counter to "0:00:00."

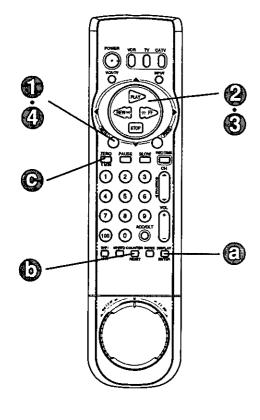


• This may be done at as many places as you wish on the tape.



Push ZERO/1MIN in Stop mode.

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



One Minute Skip

The VCR rapidly skips over one minute of tape.



Push ZERO/ 1 MIN in Play mode.

 The VCR will go into FF search mode and skip over 60 seconds of recorded time. Normal playback will then resume.

Shuttle Variable Speed Search

The SHUTTLE Ring allows you to smoothly control the tape speed during special effects playback in both forward or reverse.



Turn SHUTTLE Ring on the remote control while in Play or Still mode to place the forward or reverse search.

• The more you turn the Ring, the faster the search speed will be.



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Push a function button such as: PLAY, STOP, etc. on the VCR or remote control to release the Shuttle mode.

The VCR performs the function of the button pushed.



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 When the SHUTTLE Ring is turned more than half in Stop mode, normal Fast Forward or Rewind will begin.

- Some noise bars are normal during Shuttle operation.
- After 3 minutes in Still or Slow, the VCR will go into Stop mode.
- When the SHUTTLE Ring is released, the VCR goes into Still mode.

Auto Operation Functions

Auto Playback

When a tape is inserted, the power turns on (Auto). If the record tab* is removed, playback begins (Auto).

Auto Rewind

When a tape reaches its end during playback, fast forward or manual record, the VCR will rewind and go into Stop mode.

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

When a tape without a record tab* is played to its end, the VCR will rewind and then eject the tape.

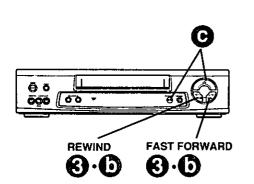
Memory Rewind Off

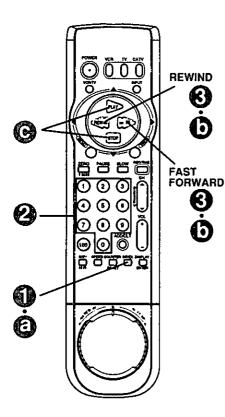
When the POWER button is pushed during rewind, the VCR will turn off after rewind is complete.

* For record tab information, see page 5.

VHS Index Search System

Each time you start a recording, an invisible index mark is automatically placed on the tape. You can then use these index marks to access or scan your recordings.





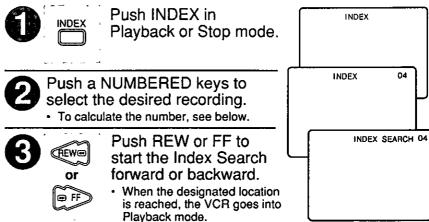


Make each entry within 10 seconds, or the Index Search mode will be canceled. Index marks will be placed for Timer recordings as well.

If the Direct Access index search is initiated extremely close to an index mark, there is a possibility that the index mark will not be counted in the search.

Direct Access

This feature allows you to go directly to the recording you want from anywhere on the tape by entering a specific index number.



To calculate an Index Number

Count forward or backward each recording start point, including the recording you want to see, from wherever you are on the tape.

Example 1:

If you are watching recording 4 and you want to watch recording 2, count the start points to number 2. Recordings equal 3. Enter 3 in step "2" and push REW.

	\checkmark \checkmark \checkmark	1		
, .	4 4 4	↓ .	,	
1	2 3	4 5	6	7

Example 2:

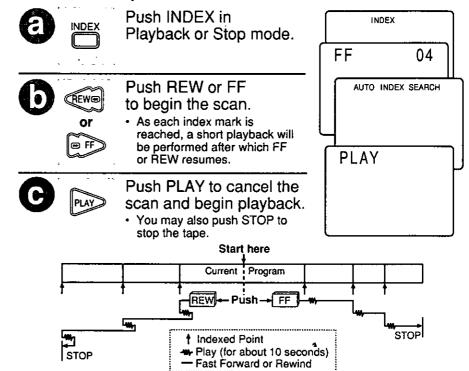
If you are watching recording 2 and you want to watch recording 6, count the start points to number 6. Recordings equal 4. Enter 4 in step "2" and push FF.

		\sim	\frown	\frown	\frown		_	
•	, ,							-
	1	2	3	4	5	6	7	l

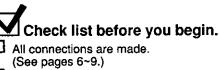
NOTE: I indicates start points of each recording.

Index Scan

This feature allows you to scan (forward or reverse) each recording for 10 seconds in Playback mode.



Special VCR Features



TV is turned on and set to the VCR channel (CH3 or CH4).

VCR is Plugged in.

VCR Lock Feature

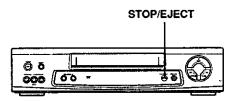
When activated, this feature prohibits all operations except for timer recording and tape eject. This feature is used to keep children from operating the VCR.



Hold down STOP/EJECT on the VCR for 7 seconds while in Stop or Power OFF mode.

VCR LOCK ACT IVATE	Ð

To Cancel the VCR Lock feature,



000

m. @ D 5TOP

ö ö ö

003

00 000 @ 0 Ö STOP/EJECT 0/4

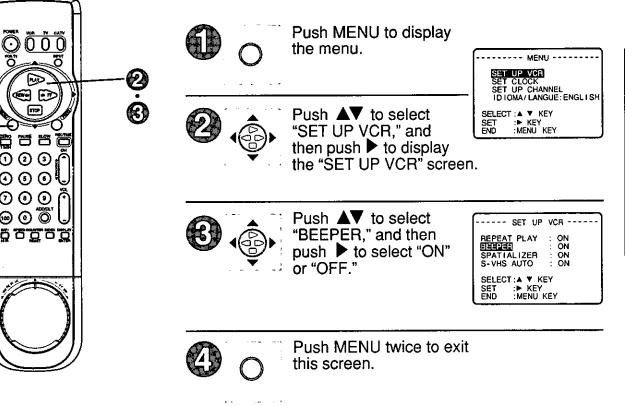
hold down STOP/EJECT on the VCR for 7 seconds again while in Stop or Power OFF mode.

VCR LOCK OFF	

 VCR Lock mode is cancelled automatically after 24 hours as long as the clock is set.

Warning Beeper Feature

When you select BEEPER ON, a short warning will sound each time an invalid entry or incomplete operation is made.



Copying Your Tapes (Dubbing)

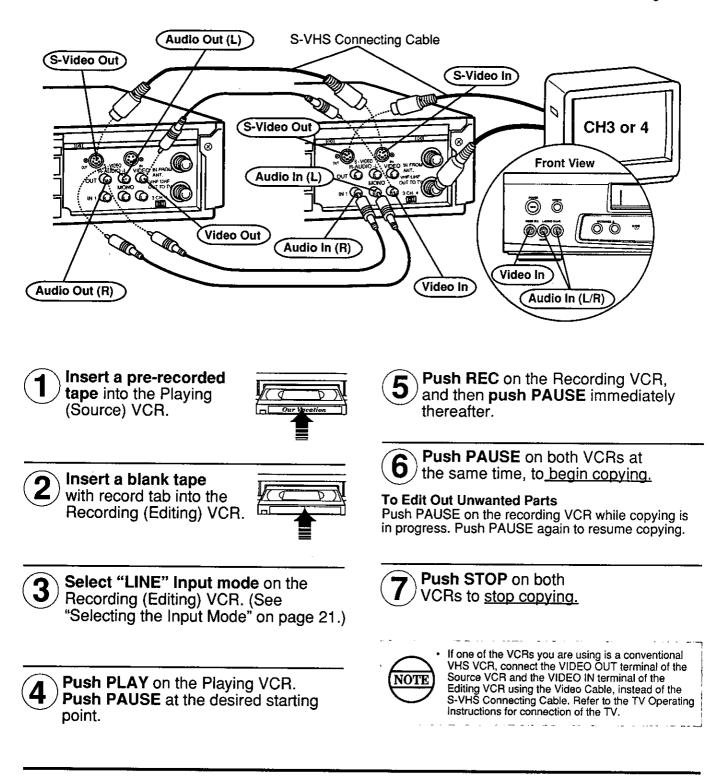
Connections you'll need to make. (Choose front or rear connection.)

When connecting to a normal VCR, use the L Audio In Jack for proper sound reduction.

Playing (Source) VCR

Recording (Editing) VCR

TV for Monitoring

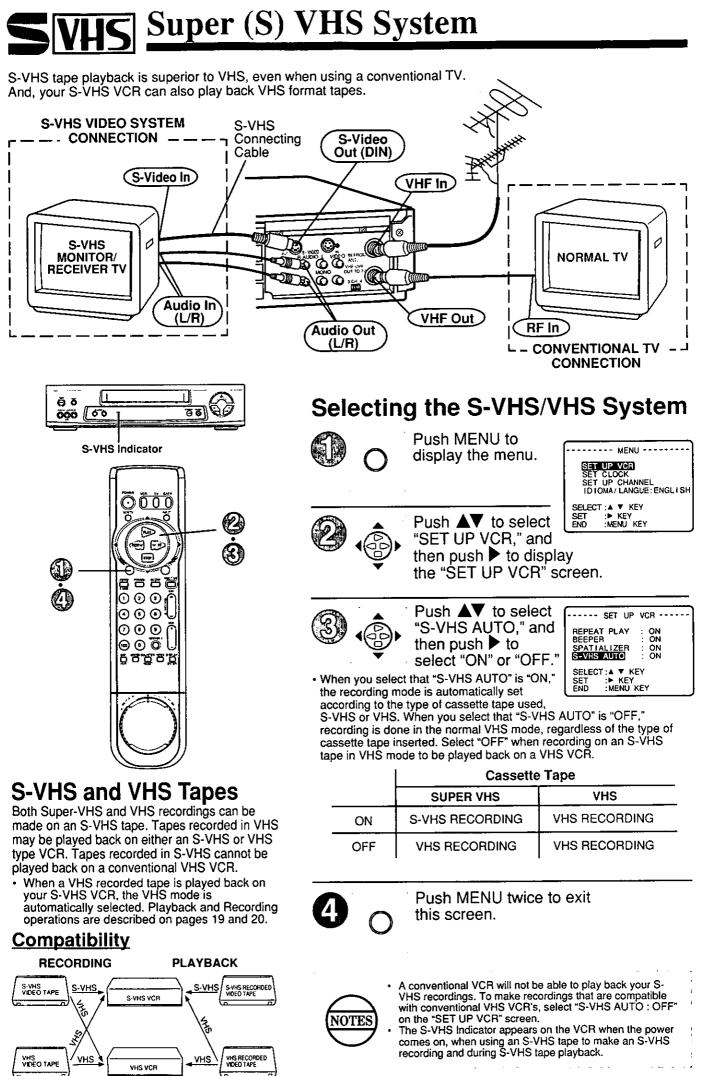


To Monitor Dubbing on Your TV

- **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."

Caution:

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



More You Can Do

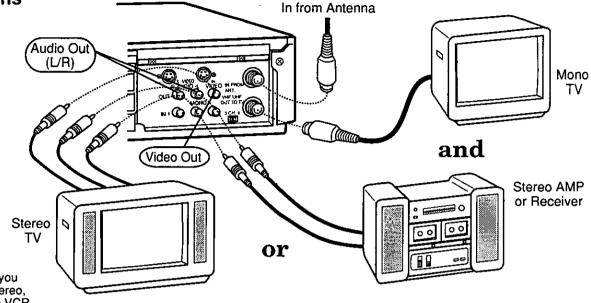
29

MTS Broadcast/ VHS Hi-Fi Stereo System

Y Check list before you begin

The VCR is connected to a stereo TV, or a mono TV and an external stereo amp or receiver with speakers.
 The VCR and other components are plugged in and turned on.

Connections to Make



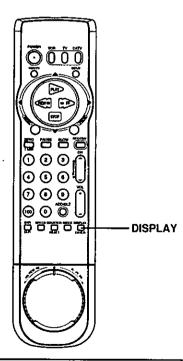
When recording, you may monitor in stereo,

by connecting the VCR

to either a stereo TV, or a mono sound TV with an external stereo amp and speakers.



Multi Function 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.

Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. Parenthesis indicate signal(s) not being received. The arrow indicates the selected audio mode.



Push DISPLAY to display the broadcast signal currently being received.

MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. The "STEREO" and "SAP" indicators light in the Multi Function Display. Select STEREO or SAP audio mode.

MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast. The "STEREO" indicator lights in the Multi Function Display. Select STEREO audio mode.

 If a stereo broadcast is weak and the display flickers, you may want to select the MONO audio mode for better results.

SAP broadcast

Secondary Audio Program (sub language) broadcast. The "SAP" indicator lights in the Multi Function Display. Select SAP audio mode for the sub language.

MONO broadcast

Normal monaural sound broadcast.

STOP	12:00AM	CH08 0:00:00
SPATIA STEREC SAP MONO	LIZER ON) ◀	SLP

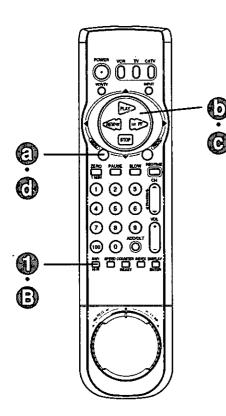
STOP	12:00AM	CH08 0:00:00
SPATIA STEREO (SAP) MONO	LIZER ON ◀	SLP

STOP	12:00AM	CH08 0:00:00
(STEREC		SLP
SAP MONO	•	

STOP	12:00AM	CH08 0:00:00
SPATIAI (STEREO) (SAP) MONO		SLP
MONÓ	•	

With the proper audio mode setting, your VCR can:

- 1) record and playback an MTS stereo broadcast (main language) in stereo Hi-Fi.
- 2) record and playback a monaural broadcast (main language) or Secondary Audio Program (sub language) on the Hi-Fi tracks for better quality monaural sound.
- 3) playback non Hi-Fi tapes in monaural.
- When recording, the selected broadcast sound is always recorded on the left and right Hi-Fi tracks as well as the normal monaural track. This means your tapes can be played back on Hi-Fi as well as non-Hi-Fi VCRs.



Audio Mode for Recording



Push SAP/Hi-Fi repeatedly (each push within 5 seconds) to select the desired audio mode (STEREO, SAP, or MONO).

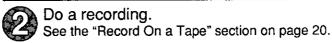
Please refer to the "Receivable

STEREO 4

SAP MONO

Broadcast Types" section on page 30.

The arrow indicates your selection.



Audio Mode for Playback

Playback the tape.

See the "Playback a Tape" section on page 19.

SAP/ $\left[\cdots \right]$ Hi-Fi

Push SAP/Hi-Fi repeatedly (each push within 5 seconds) to select the desired audio mode (HIFI or NORMAL).

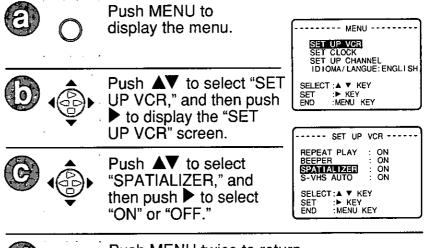
HIFI NORMAL

· Select "HIFI" to listen to your stereo recordings with stereo sound, or "NORMAL" for monaural sound.

The arrow indicates your selection.

Spatializer Feature

This feature allows you to enhance the stereo sound so that it seems to surround you. Note: Your VCR needs to be hooked up to a stereo TV or stereo amp/receiver with speakers (see page 30). For playback, tapes must be recorded in Hi-Fi stereo. For TV viewing, programs must be broadcast in stereo.



Push MENU twice to return to the normal screen.

Portions of this product manufactured under a licence from Desper Products, Inc. SPATIALIZER, and the circle-in-square device are trademarks owned by Desper Products, Inc.

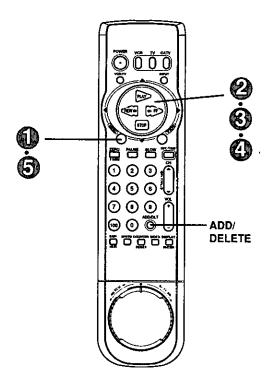
OTE

b

- When purchasing or renting prerecorded tapes, remember that only those recorded in Hi-Fi stereo will play back with true stereo sound. Standard stereo tapes will play back with monaural sound.
- In order 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 30.)
- When adjusting the tracking during playback, the Hi-Fi audio sound may revert to normal audio sound. This is normal. There may be a difference in audio level between Hi-Fi and normal audio playback.



Easy Taping. In order for the VCR to read the VCR Plus+ code, some set up is required. A Guide (VCR Plus+) channel number is assigned to each local broadcast and cable station. Because this number sometimes differs from the channel your TV receives the station on, it is necessary to program the VCR with local channel information.



Channel Setup Preparations

NOTE: Complete the steps on this page if your VCR hook-up resembles "2" on page 12. Prepare a list like the example below. This list will help you smoothly enter the information needed in step "4" at right.

You will need the following to complete the list:

- A line up of normal and/or cable stations you receive along with the channel numbers your TV receives them on. A cable channel line-up chart is supplied by your cable company.
- A list of Guide (VCR Plus+) channel numbers assigned to the stations you receive. This list is available in *TV Guide* and the TV listings found in selected newspapers.
- 1 Make a chart with 3 columns like the example below. In the left column, fill in the name or call letters of the stations you receive.
- 2 In the middle column, fill in each station's assigned Guide (VCR Plus+) number found in TV Guide, newspapers, etc.
- 3 In the right column, fill in the channel number that your TV receives the station on from your channel line-up.

EXAMPLE ONLY

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

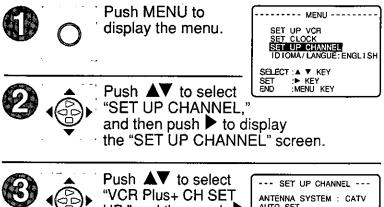
VCR Plus+ Channel Setup

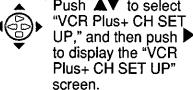
For Connection Type 2 (on page 12) only • Before you begin, complete the Channel Setup

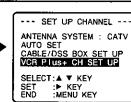
Preparations below left.

Important Note:

If your VCR connection type changes from 1 to 2, perform "To setup the VCR in case a cable box or DSS receiver was installed or replaced" section on page 17 before proceeding with these steps.

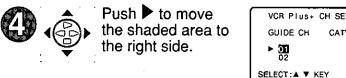






IMPORTANT NOTE:

For step "4," use the list you prepared. You may leave lines blank if you don't receive that station, or if the GUIDE CH number and the CATV (or TV) CH numbers are the same.

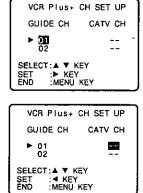


Then, push $\blacktriangle \nabla$ to change CATV or TV CH number.

Next, push ◀ to set the number.

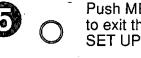
Now, push ▲▼ to continue.

Repeat this operation until the list is complete.



To Make Corrections

Push $\blacktriangle \forall$ and \triangleright to select the incorrect CATV or TV CH number. Then, push $\blacktriangle \forall$ to change, or ADD/DLT to delete the channel.



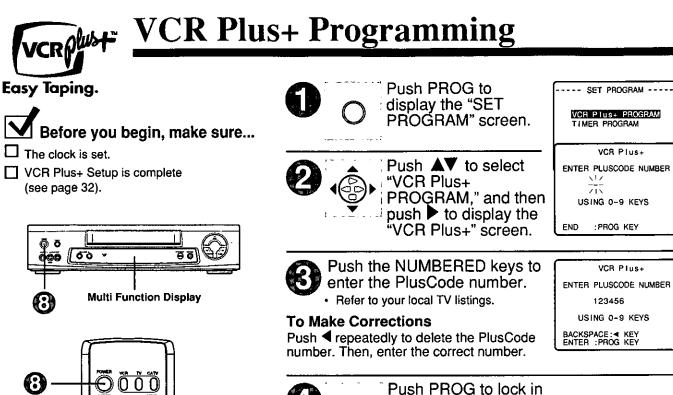
Push MENU three times to exit the VCR Plus+ CH SET UP mode.

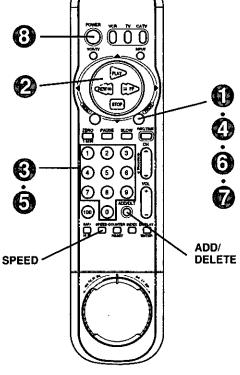


Make each entry within 5 minutes or the VCR will leave this mode.

 Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

VCR Plus+C³ and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.





Use normal Timer Recording steps if:

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

See page 23 to:

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

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.

- 1 ONE TIME 2 DAILY (MON-FRI) 3 WEEKLY TO SELECT PUSH 1.2 OR 3 To change the recording speed: DATE START STOP Push SPEED for SP, LP or SLP. 8 SAT 10:00P 12:00P 125 TO CHANGE RECORD SPEED To cancel program contents: PUSH SPEED KEY Push ADD/DLT. CANCEL: ADD/DLT_KEY ACCEPT: PROG_KEY
- If you use connection type 1 on page 12, the channel shown in this onscreen display will always be the cable box output channel number.

Push PROG if contents are acceptable.

 If programs are overlapped, a warning screen will appear.

your program.

Push the 1, 2 or 3 key to

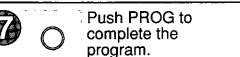
select the program type.

P DT START STOP CH SPD 1DAY 9:00A 12:00A 08 SP 2 8 10:00P 12:00P 125 SLP 3 -- -- -- -- ----:-- --:--CANCEL:ADD/DLT KEY SELECT 1-8:▲ ▼ KEY ENTER :► KEY END :PROG KEY

TURN VCR OFF FOR TIMER RECORDING

AND LEAVE CABLE BOX POWER ON

VCR Plus



When recording programs via a cable box, make sure the cable box is left on. If the cable box can not be controlled with the VCR, you

must manually select the desired channel.

 This display may differ depending on your cable box hook-up.

Push POWER off POWER to set the timer.

TIMER -Multi Function Display

33



For a list of publications that carry the PlusCode numbers in your area, call 1 - 800 - 258 - 4827. You can obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs approximately \$.95 per minute. VCR PlusCodes can not be used to program the VCR to record DSS channels.

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- Avoid overlapping program times. (The overlapping programs will flash on the screen.)
- An on-screen display will indicate if an invalid PlusCode number has been entered or when all timer programs are full.

Multi-Brand Control Feature

The Remote Control may be set up to control some of the functions on your TV or Cable Box.

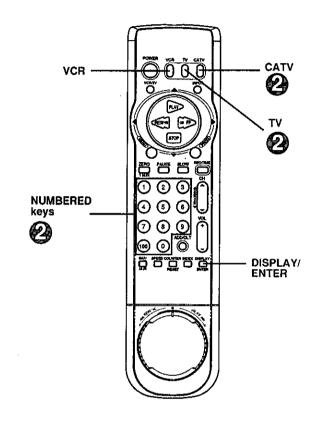
TV Brand Code Numbers

Panasonic	01, 02
Quasar	01, 02
RCA	
GE	
Zenith	04
Magnavox	05

)2	Sylvania 05	JVC
02	Sharp 06, 07	Hitachi
03	Sony 08	Mitsubishi 07,
03	Toshiba 09	Samsung
)4	Sanyo 10	Gold Star 15, 16,
)5	Fisher 10	

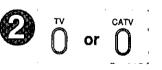
Cable Box Brand Code Numbers

Archer 01, 29, 44, 88, 9	01
Cableview 04, 30, 42, 44, 52, 63, 85, 1	21
Cableview04, 30, 42, 44, 52, 63, 85, 1	50
Citizen04, 30, 42, 44, 52, 63, 85, 4	58
Curtis08, 09, 56, 61, 87, 9	
Diamond 01, 29, 44, 88, 9	
Drake 37, 67, 1	71
Eagle	98
Eastern	
Gemini 04, 8	55
General Electric	57
General Instruments	
. 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 9	95
Hamlin 14, 15, 28, 41, 97, 100, 10	
Hitachi 31, 7	
Jerrold	
. 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 9	h
Macom 31, 7	
Magnavox 25, 2	
Matsushita 16, 17, 10)1
Movietime 29, 32, 38, 39, 40, 42, 44, 8	38
NSC 32, 38, 4	١N
Oak 10, 11, 46, 9	
Panasonic	Л
Philips 13, 20, 23, 24, 9) 6
Pioneer 05, 06, 7	78
Pulsar04, 30, 42, 44, 52, 63, 85, 8	38
Radio Shack 4	14
RCA 16, 17, 10	
Realistic 44, 51, 8	28
Regal	
Regency	
Rembran 29, 32, 39, 42, 44, 8	
Salora 68, 7	'2
Samsung 32, 40, 42, 78, 9	94
Scientific Atlanta 08, 09, 56, 61, 87, 9	90
Sheritech 2	7
SL Marx	14
Spucer	
	1
Stargate	
04, 30, 32, 40, 42, 44, 52, 63, 78, 85, 88, 9	
Sylvania 1	9
Teknika 7	′4
Telecaption	2
Teleview	14
Texscan	0
Tocom01, 33, 34, 42, 48, 49, 9	
Toshiba 3	6
Uniden Satellite 65, 6	;9
Unika01, 29, 44, 88, 9	11
Universal 42, 43, 44, 52, 63, 8	8
Viewstar 13, 20, 22, 26, 40, 58, 62, 9	
Videoway	
State and State	
	4
Vidter	
Zenith 07, 23, 5	0



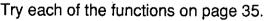
Multi-Brand Control Setup

Find your TV or Cable Box Brand Code Number from the chart at left.



Hold down TV or CATV. Use the NUMBERED keys to enter your TV or Cable Box Brand code number.

• For code numbers 100 or greater, first push the 100 key. Then, enter the remaining digit. E.g. for 102, push 100, then push 2.



Due to changes in infra-red commands used by some manufacturers, some TV or Cable Box brands are listed more than once. If your TV or Cable Box does not respond to the first code, please try entering the next code.

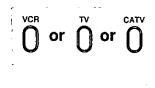
> Please repeat the TV/Cable Box Set Up procedure when you replace the remote's batteries.



The remote control is designed to control the brands listed. However, it will not operate all TVs or Cable Boxes made by these manufacturers. If you get no results, your particular product brand cannot be controlled by this remote control.

Using the Multi-Brand Control

Once the remote control has been properly set up, you can select VCR, TV, or CATV mode depending on which functions you wish to control.



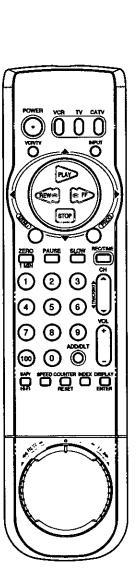
Push VCR or TV or CATV on the remote control to select the desired mode. (See below for the controllable functions of each mode.) **NOTE:** In TV or CATV mode, it may be necessary to push DISPLAY/ENTER after pushing NUMBERED keys for channel selection.

VCR Mode

In VCR mode, the following buttons are available.

VCR All function buttons.

<u>TV</u> VOL UP/DOWN



TV Mode

In TV mode, the following buttons are available.

TV POWER, INPUT, NUMBERED keys, DISPLAY/ENTER, CH UP/DOWN, VOL UP/DOWN

VCR VCR/TV, PLAY, STOP, FF, REW, PAUSE, SLOW, REC, SAP/Hi-Fi, SPEED, COUNTER RESET, ZERO/1 MIN.

CATV Mode

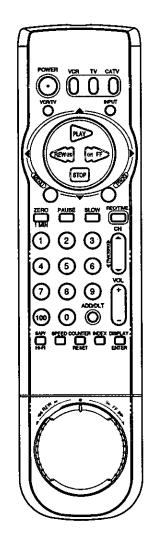
In CATV mode, the following buttons are available.

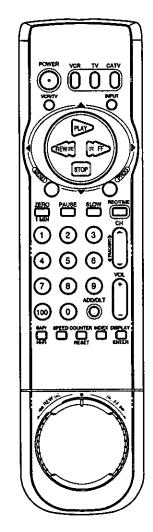
<u>CATV</u> POWER, NUMBERED keys, DISPLAY/ENTER, CH UP/DOWN

<u>TV</u>

VOL UP/DOWN

VCR/TV, PLAY, STOP, FF, REW, PAUSE, SLOW, REC, SAP/Hi-Fi, SPEED, COUNTER RESET, ZERO/1 MIN.





NOTES

Some TV and Cable Box brands require you to turn on the power manually.
Not all functions listed may be controlled by this remote control.

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Before Requesting Service

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

Power	Correction	
No power	 Completely insert the Power Plug into an AC outlet. Set the POWER button to ON. 	
Recording & Playback	Correction	
TV program cannot be recorded	 Check connections between VCR, external antenna, and your TV. Make sure your antenna system (CATV or TV) is entered correctly. (To Replace Channels in Memory [P.17]) Make sure that the record tab is intact on the cassette. (P.5) 	
Timer recording cannot be performed	 Set the recording start/stop times correctly. (P.22) Make sure that the POWER button is set to OFF. (P.22) 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 if power resumes thereafter. 	
There is no playback picture, or the playback picture is noisy or contains streaks	 Select channel 3 or 4 on the TV to match the Channel 3/4 switch located on the rear panel of the VCR. (P.6) Set the VCR/TV selector to "VCR." Check that channel 3 or 4 of the TV is properly adjusted. Adjust the TRACKING control in either direction. (P.19) 	
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control	Set the TV's Vertical Hold Control to "MANUAL" and then adjust it.	
VCR can't be controlled	Make sure that VCR LOCK is set to off. (P.27)	
Remote Control	Correction	
VCR cannot be remote controlled	 Aim the Remote Control directly at the remote sensor on the VCR. (P.10) Avoid all obstacles which may interfere with the signal path. Inspect the remote batteries for possible replacement. (P.4) Make sure that VCR LOCK is set to off. (P.27) Exposing the VCR remote sensor to direct fluorescent or outdoor light may cause signal interference. 	
The MENU and PROG buttons can't be used	Push the VCR button to select VCR mode. (P.35)	

Miscellaneous	Correction	
Programs cannot be viewed on TV	Set the VCR/TV selector to "TV." (P.21)	
Video cassette cannot be inserted	Insert cassette with window side up and the record tab facing you.	
Video cassette cannot be removed	Completely insert the Power Plug into an AC wall outlet.	
Video cassette ejects when a recording is started or the power is turned off for timer recording	 Make sure the record tab is intact on the cassette. (P.5) 	
In Stop mode, the motor (CYLINDER) continues to rotate	 To enable the quick play mechanism, the cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode from Play to Rewind Search mode. 	
The top of the playback picture waves back and forth excessively	 Because the VCR playback signal is not as stable as an off-the-air TV signal, the top of your TV screen may be bent or unstable during playback. To solve this problem, slowly turn the horizontal hold control on your TV to correct the wavy picture. If your TV does not have a horizontal hold control or adjusting the control does not help, please contact your local TV service center. 	

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

To locate an authorized servicenter, please call toll free 1-800-545-2672.

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PRODUCT INFORMATION • OPERATION ASSISTANCE • LITERATURE REQUESTS • DEALER LOCATIONS

Customer Service Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters) 201-348-9090 (9:00am-8:00pm Monday-Friday, EST)

ACCESSORY PURCHASES

Panasonic Services Company 20421 84th Avenue South Kent, WA 98032 (6 am to 6 pm Monday - Friday ; 6 am to 10:30 am Saturday ; PST) (Visa, Mastercard, Discover card, American Express, Check)

AUTHORIZED SERVICENTERS • PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicenter or parts distributor in your area, within the USA dial toll free **1-800-545-2672**, 24 hours a day, 7 days a week.

PRODUCT REPAIRS

CALIFORNIA

6550 Katella Avenue Cypress, CA 90630 Phone (714) 373-7426 Fax (714) 894-8534

800 Dubuque Avenue S. San Francisco, CA 94080 Phone (415) 871-6373 Fax (415) 871-6840

20201 Sherman Way Suite 102 Canoga Park, CA 91306 Phone (818) 709-1775 Fax (818) 709-2165

3878 Ruffin Road Suite A San Diego, CA 92123 Phone (619) 560-9200 Fax (619) 560-1831

COLORADO 1640 South Abilene Suite D Aurora, CO 80012 Phone (303) 752-2024 Fax (303) 752-0610

FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020 Phone (954) 925-2880 Fax(954) 925-5224

4710 Eisenhower Boulevard Suite A1 Tampa, FL 33634 Phone (813) 884-4746 Fax (813) 886-4564

REPAIR INQUIRIES

EAST (PCE) 2221 Cabot Boulevard West Suite A Langhorne, PA 19047 Phone (215) 741-0676 Fax (215) 750-6492

Covers: CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, DC, WV

Factory Servicenters

GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350 Phone (770) 518-6301 Fax (770) 518-6306 HAWAII 99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808) 488-4369 Fax (808) 486-4369 **ILLINOIS** 1703 North Randall Road * Elgin, IL 60123 "12:30 to 4:30, Mon-Fri" Phone (847) 468-5464 Fax (847) 468-5465 9060 Golf Road Niles, IL 60714 Phone (847) 608-1010 Fax (847) 299-1710 MARYLAND Sulphur Springs Business Park 1638 Sulphur Springs Road Baltimore, MD 21227 Phone (410) 242-2607 Fax (410) 247-3047 MASSACHUSETTS 60 Glacier Drive, Suite G Westwood, MA 02090 Phone (617) 329-4280 Fax (617) 329-0586

* pick-up/drop-off only

MICHIGAN

37048 Van Dyke Avenue Sterling Heights, MI 48312 Phone (810) 939-2060 Fax (810) 939-2638

MINNESOTA 7850-12th Avenue South Airport Business Center Bloomington, MN 55425 Phone (612) 854-8624 Fax (612) 854-2089

OHIO

2236 Waycross Road Cincinnati, OH 45240 Phone (513) 851-4180 Fax (513) 851-8443

PENNSYLVANIA 2221 Cabot Boulevard West Suite B Langhorne, Pa 19047 Phone (215) 741-0661 Fax (215) 741-0521 Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017 Phone (412) 257-4522 Fax (412) 257-4650 TENNESSEE

919-8th Avenue South Nashville, TN 37203 Phone (615) 244-4434 Fax (615) 244-6713

TEXAS

7482 Harwin Drive Houston, TX 77036 Phone (713) 781-1528 Fax (713) 781-0643

13615 Welch Road Suite 101 Farmers Branch, TX 75244 Phone (972) 385-1975 Fax (972) 960-7626

WASHINGTON 20425-84th Avenue South Kent, WA 98032 Phone (206) 872-7922 Fax (206) 872-0918

Service in Puerto Rico

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

Regional Customer Care Department

EAST (PCE) 1225 Northbrook Parkway Suite 2-390 Suwanee, GA 30174 Phone (770) 338-6860 Fax (770) 338-6548 Covers:

AL, FL, GA, MS, NC, SC, TN

CENTRAL (PCC) 1707 North Randall Road Elgin, IL 60123 Phone (847) 468-5530 Fax (847) 468-5528

Covers: AR, IL, IN, IA, KS, KY, LA, MI, MN, MO, NE, ND, OK, SD, TX, WI, OH WEST (PCW) 6550 Katella Avenue Cypress, CA 90630 Phone (714) 373-7440 Fax (714) 373-7447

Covers: AK, AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, WY, HI 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 CAMCORDER	PARTS ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	LABOR 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: 19" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 18" (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 1-800-545-2672, 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 requires 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 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 2/11/97

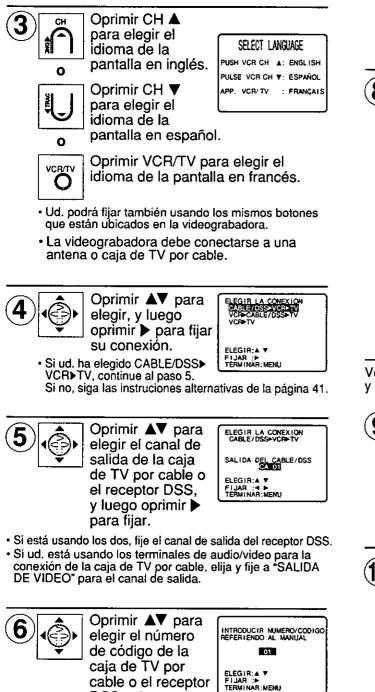
Spanish Quick Use Guide/Guía para rápida consulta

Fijación del idioma de la pantalla, fijaciones para la conexión con la caja de TV por cable y receptor DSS, memorizar los canales y fijación automática de la hora.



Encienda el televisor y la videograbadora.

Sintonice el televisor al canal de salida de la videograbadora (el mismo canal que ha fijado en la parte trasera de la videograbadora; canal 3 o 4).



Si ud. usa una caja de TV por cable, sintonice al canal 2. Si usa un receptor DSS, sintonice al canal 270.

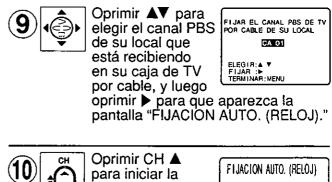


"ESTA TRANSMITIENDO" aparece.

Oprimir 🕨 para continuar.



Verifique que su caja de TV por cable esté encendido y su receptor DSS esté apagado.





Si su caja de TV por cable o su receptor DSS no tiene un control remoto, elija "SIN CONTROL REMOTO."

(Consulte su lista de la página 13.)

DSS, y luego oprimir 🕨 para fijar.

· Luego, siga las instruciones alternativas de la página 41.

luego oprimir CH 🔺 para terminar la fijación.

<u>Comprobar si la</u>

hora está fijada

correctamente y

FIJACION AUTOMATICA

COMPLETO

TERMINAR : PULSE CH UP

Si la hora fijada automáticamente es incorrecto

Si ud. usa una caja de TV por cable y recibe emisiones de más de un canal PBS, intente fijar automáticamente otravez. Siga la "Si la hora veraniega es incorrecta" en la página 41 y cuando las instrucciones de la pantalla requiere la fijación del canal PBS, fije un canal que no ha intentado anteriormente.

Si aparece en la pantalla FIJACION DEL RELOJ INCOMPLETO

La pantalla a la derecha aparecerá si no es disponible en su zona la fijación automática de la hora.



Oprimir MENU para ver la pantalla de la fijación manual del reloj. (Consulte la "Fijacion manual del reloj" en esta página).

Notas:

Si ud. usa una caja de TV por cable y recibe emisiones de más de un canal PBS, ud. debe salir desde la pantalla de la fijación del reloj manual e intente fijar automáticamente otravez. Siga la "Si la hora veraniega es incorrecta" en esta página y cuando las instrucciones de la pantalla requiere la fijación del canal PBS, fije un canal que no ha intentado anteriormente.

 La fijación automática de la hora se efectuará cada día al apagar la videograbadora por primera vez. Si ud. usa una caja de TV por cable y desea efectuar la fijación automática de la hora, la caja de TV por cable debe permanecer encendido y sintonizado al canal PBS cuando la videograbadora se apaga.

Instrucciones alternativas

Complete los siguientes pasos si ha efectuado una de las siguientes explicaciones.

- A Ud. ha elegido la segunda conexión (VCR►CABLE/ DSS►TV o VCR►TV) en el paso 4 de la página 40.
- **B** Ud. ha elegido "SIN CONTROL REMOTO" en el paso 6 de la página 40 (su caja de TV por cable o receptor DSS no tiene un control remoto).
- C Ud. está usando un receptor DSS y ha elegido "SI" en el paso 8 de la página 40.
- **D** No se puede controlar la caja de TV por cable o receptor DSS en el paso 8 de la página 40.
- Encienda la caja de TV por cable y fije la caja de TV por cable al canal PBS de su local.
 - Si ud. vive cerca de una zona con diferente hora, asegúrese de fijar el canal de su zona.
 Si ud. usa un receptor DSS, éste debe estar apagado.



Oprimir CH A para iniciar la fijación automática de los canales y la fijacion de la hora.

Aparace las siguientes informaciones: "AUTOPROGRAMACION EN PROCESO" "FIJACION AUTOMATICA DEL RELOJ EN PROCESO"

Esta pantalla aparece para informarle que la fijación automática de la hora es incompleto.

Si aparece esta pantalla, la fijación

describe al siguiente.

automática no es disponible en su zona.

Por favor fije la hora manualmente como



СН

췕

Comprobar si la hora está fijada correctamente y luego oprimir CH A para terminar la fijación. 7/25/1997 VIE 12:00PM HORA VERANIEGA:ACT CANAL FIJADO : CA 02 FIJACION AUTOMATICA COMPLETO TERMINAR : PULSE CH UP

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO PULSE MENU PARA FIJAR EL RELOJ

Si la hora y la hora veraniega es incorrecta

Raras veces, en caso de que ud. vive cerca de dos zonas con hora diferente, el aparato puede elegir un canal PBS con diferente hora de su zona. En este caso, haga los siguientes pasos:

- Tome nota del canal que está fijado en la pantalla y salga desde este modo oprimiendo el botón CH ▲.
- 2 Anule este canal desde los canales memorizados en la combinación de VCR/TV.
- 3 Oprima el botón MENU para que aparezca la pantalla del MENU.
- 4 Oprimir ▲▼ para elegir "FIJAR RELOJ" y luego oprimir ► para que aparezca la pantalla de "FIJAR RELOJ."
- 5 Oprimir ▲▼ y ▶ para elegir y fijar "AUTO MATICO."
- 6 Siga las instrucciones en la páginas 40 y 41.
- Si ud. está usando una caja de TV por cable y tiene muchos canales PBS, sintonice la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez.

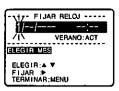
Spanish Quick Use Guide/Guía para rápida consulta

Fijación manual del reloj

- 1 Oprimir MENU para que aparezca la pantalla de la fijación del reloj.
- 2 Oprimir ▲▼ y ∢► para elegir y fijar el mes, la fecha, el año. la hora y la hora veraniega.

Para hacer correcciones Oprimir **∢** sucesivamente para avanzar o para retroceder hasta el paso que desea corregir.

3 Oprimir MENU dos veces para iniciar a funcionar el reloi y salir desde este modo.





Operaciones básicas para la reproducción



-)vcr(-

Esta indicación aparece en la pantalla multifuncional.



Oprimir PLAY en el control remoto o en la videograbadora para comenzar a reproducir.

Si la cinta no tiene la lengüeta para evitar el borrado la videograbadora comienza a reproducir automáticamente.



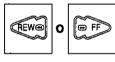
Oprimir STOP en el control remoto o en la videograbadora para parar la reproducción.



Oprimir STOP/EJECT para expulsar la cinta.

Usted puede expulsar la cinta cuando el aparato está encendido o apagado.

Para buscar una escena en particular durante la reproduction



Oprimir REW o FF durante la reproducción para buscar una escena.

- · La velocidad de búsqueda es a 9 veces más rápida que la velocidad normal para el modo SP y 27 veces más rápida para el mode SLP.
- Durante la búsqueda aparece alguna barras de ruido.

Fijacion o cambio del reloj

- **I** Oprimir MENU para que aparezca la pantalla del menú.
- 2 Oprimir ▲▼ para elegir "FIJAR RELOJ" y luego oprimir ▶ para que aparezca la pantalla de "FIJAR RELOJ."
- 3 Oprimir ▲▼ para elegir "MANUAL" y luego oprimir ► para que aparezca la pantalla de la fijación del reloj.
- 4 Oprimir ▲▼ y ◀► para elegir y fijar la hora y la fecha.

5 Oprimir MENU dos veces para iniciar a funcionar el reloi y salir desde este modo.

--- FIJAR RELOJ -----AUTO MATICO MANUAL ELEGIR: A V FIJAR :► TERMINAR:MENU ---- FIJAR RELOJ -----

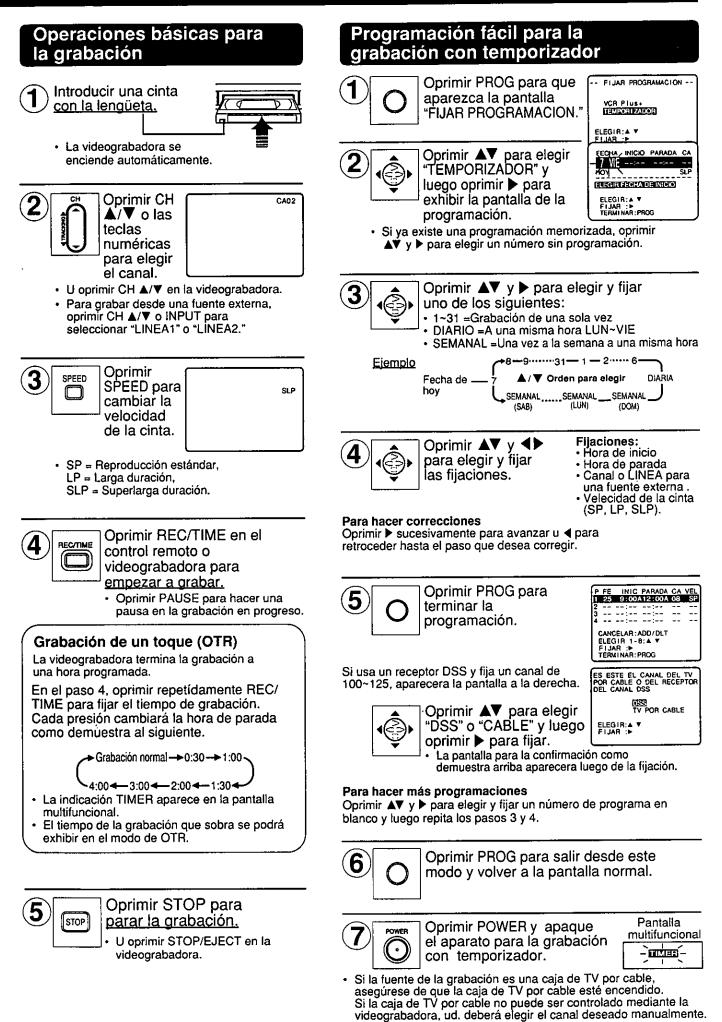
MENU -----

LANGUE/ LANGUAGE: ESPANOL

PREPARAR VCR FIJAR RELOU FIJAR CANAL

ELEGIR:▲ ▼ FIJAR :► TERMINAR:MENU

1/ 4/1997 SAB 12:00PM VERANO: ACT FIJACION ES COMPLETO FIJAR :≪IÞ INICIAR:MENU

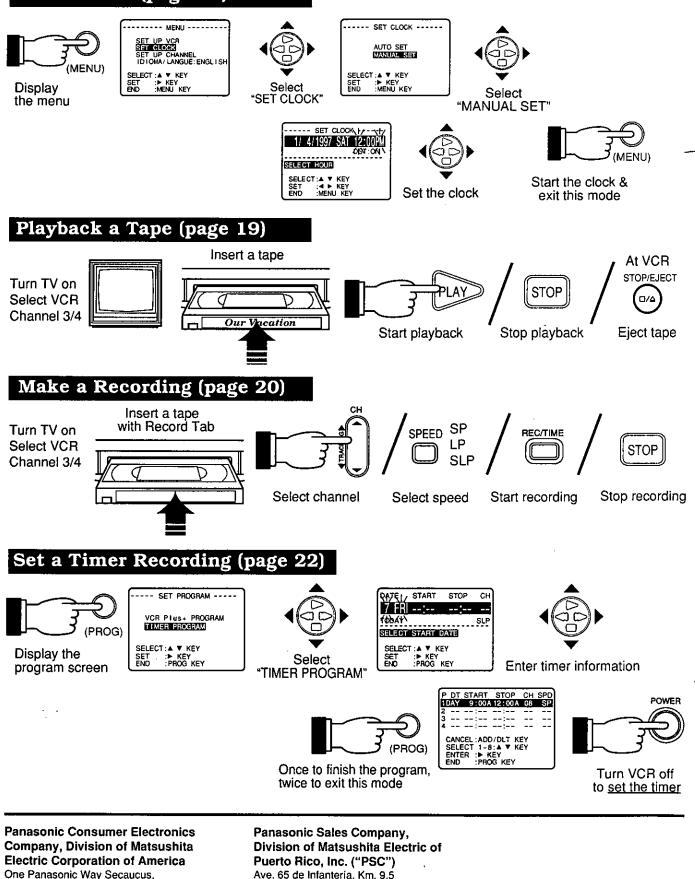


Other Information

Quick Use Guide

This guide should only be used once you are familiar with the operations inside this manual. If you have any problems or need more information, please refer to the page listed.

Clock Reset (page 17)



San Gabriel Industrial Park, Carolina,

Puerto Rico 00985

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