

# **Things You Should Know**

# **Congratulations**

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information at right. The serial number is on the tag located on the back of your VCR. You'll want to keep this manual handy as your convenient VCR information source.

## Safety Precautions

Date of Purchas	e	
Dealer Purchase		
Dealer Address.		
Dealer Phone N		
Model No		
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 VHS or SVHS 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 VHS and SVHS systems to enable users to select either mode. An SVHS cassette recorded in the SVHS mode cannot be played back with conventional VHS 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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# **Important Safeguards and Precautions**

#### INTRODUCTION

Careful attention has been given to this Video product to assure a quality standard devoted to your safety and enjoyment. This quality standard together with your personal responsibility for the safety of yourself and others, will contribute to your enjoyment. This Video product uses electrical energy and requires proper handling at all times.

#### CAUTION

READ AND RETAIN THE SAFETY AND OPERATING INSTRUCTIONS To make full use of the safeguards incorporated in this unit, read and follow this basic guide, adopted in part from Underwriter's Laboratories Standard 1409, Second Edition, before operating this Video product.

FOLLOW THE INSTRUCTIONS AND BE SURE TO HEED ALL WARNINGS on unit and in the manual, for easy maintenance, proper and trouble free operation of this Video product.

#### INSTALLATION

- **OPERATE FROM A POWER SOURCE INDICATED on this** 1.
- Video product, or in this Manual. Your Electric Utility Service Л Company or Video Products Dealer will be happy to verify
- the power source in your home. THE GROUNDED OR POLARIZED PLUG IS A SAFETY FEATURE 2. This Video product may be equipped with either a polarized
- 2-wire AC line plug or a 3- wire grounding type plug. The two wire polarized plug (having one blade wider than the other) will fit into the power outlet only one way. If it is a three wire grounding type plug (having a third pin), it will fit into a

grounding type outlet. DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDED OR POLARIZED PLUG by tampering with it. If the plug does not fit fully into the socket, try reversing it. If you should still be unable to fully insert the plug into the socket, you may find that a proper outlet is needed to meet today's Electrical Standards. An electrician will replace your outlet safely

- POWER SUPPLY CORDS SHOULD BE PROTECTED and 3 routed so that they are not likely to have anything rest on
- Δ them, roll over them, or be subject to walking traffic or abuse: particularly at plug-ins, convenience receptacles, or cord exit points from the unit. Where an extension is needed, use a grounded or polarized cord. HAZARDOUS FRAYED CORDS OR DAMAGED PLUGS SHOULD BE REPLACED BY A QUALIFIED SERVICE TECHNICIAN.

OVERLOADED WALL OUTLETS AND EXTENSION CORDS PRESENT DANGEROUS RISKS OF FIRE OR ELECTRICAL SHOCK.

- 4. AVOID BLOCKING VENTILATION HOLES
- Your video unit has ventilation openings in its cabinet to Δ release heat generated during operation. Blocking these opening can cause heat build-up inside the unit, causing failure that may result in a fire hazard or heat damage to cassettes. For protection:
  - a. Never cover the bottom ventilation slots or the unit with soft material, or operate the unit placed on a bed, sofa, rug, or soft accessory.
  - b. Avoid built-in installations, such as a bookcase or rack, unless proper ventilation is provided.
- AVOID EXTREMELY HOT LOCATIONS OR SUDDEN 5.
- CHANGES IN TEMPERATURE such as placing the unit near or over a radiator, in direct sunlight, closed vehicles, or

transporting it suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the unit.

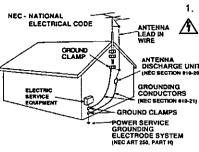


- TO AVOID INJURY TO A CHILD, ADULT; 6 OR COSTLY DAMAGE:
- ⚠ a. Do not place unsecured equipment on a sloping surface or any heavy object or unit. (Use the unit in a horizontal position and do not place

anything heavy on it.)

- b. Support for the unit should be adequately firm, level, and strong. Replace any unstable cart, table or support. 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.
- c. Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

#### OUTSIDE ANTENNA, EQUIPMENT, AND POWERLINE EXPOSURE

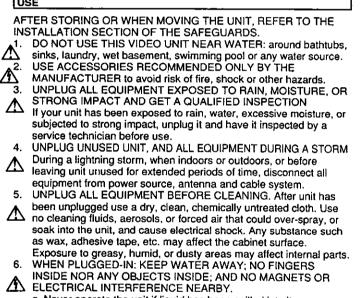


**INSURE SAFE ANTENNA** AND CABLE CONNECTIONS If an outside antenna or cable system is connected to the equipment, be sure the DISCHARGE UNIT antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Part 1 of the Canadian Electrical Code, in USA Section 810 of the National Electrical Code, ANSI/NFPA

70, 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.

- ELIMINATE ANTENNA PROXIMITY TO HIGH VOLTAGE POWER 2.
- SOURCES, OR CHANCE OF ACCIDENTAL CONTACT BY INSTALLER 不 An outside antenna system should be located where it will never be reached by power lines, electric light or power circuits and where it will never contact these power sources if it falls. Installer should use extreme care to avoid possible fatal contact by touching power lines, circuits or other power sources when installing an outside antenna.

#### USE



- a. Never operate the unit if liquid has been spilled into it. 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.
- b. Caution the children about dropping or pushing objects into the unit. Some parts inside carry hazardous voltages and contact can cause electric shock. Objects dropped in electrical equipment can cause fire hazards.
- Separate the unit from any interference causing appliances. Placing the unit directly above or below your TV set may cause C. electrical interference. Keep all magnets away from electronic equipment.

#### SERVICE



DO NOT ATTEMPT TO SERVICE THIS PRODUCT YOURSELF. If this Video product does not operate as described, when the detailed Operating Instructions are followed, do not attempt to open or remove covers, or make any adjustments not described in the manual. Attempting to service this unit yourself may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



CHECK ON REPLACEMENT PARTS REQUIRED. Be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutes may result in fire, electric shock or other hazards.

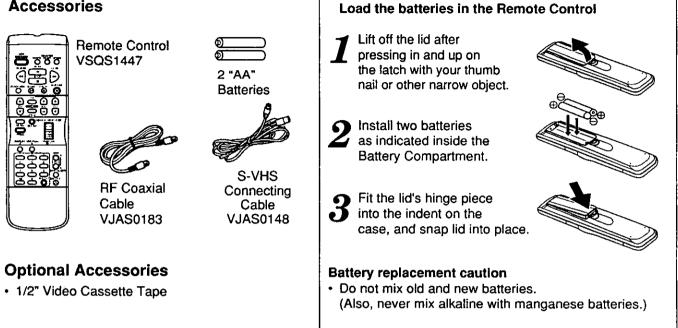
З. HAVE TECHNICIAN PERFORM SAFETY CHECK described in the manufacture's service literature, after any service or repairs, to Δ determine that the Video unit is in safe operating order.

# **Unpacking Your VCR and Features**

# **Unpacking Your VCR**

The accessories shown below are provided to help you use or set up your VCR. Optional accessories are also listed.

#### Accessories



# **Product Features**

All Channel Auto Set/ 181-CH TV/CATV Tuner	
Advanced Noise Reduction	17
Auto Clock Set	12, 13, 14
Auto Daylight Saving Time	
Auto Operation Functions (Auto Playback, Rewind, Tape Eject, Power off)	
Auto Repeat Function	
Cable Box Channel Control	
Color Noise Reduction	
Digital Auto Picture	
DynAmorphous™ Metal Head	•••
Easy-to-Read English/Spanish/French On Screen Displays	
MTS Broadcast System (Multi-channel Television Sound-Stereo, SAP, Mono)	
Multi Brand TV/Cable Box Remote Control	
One Minute Skip	
One Month, 8 Program Timer Recording	
One Touch Recording (OTR)	
Program Director Remote Control	
Quick Play Mechanism	
Spatializer	
Special Effects Playback	
Special VCR Features (VCR Lock, Warning Beeper)	
Supeer (S) VHS System	
VCR Plus+ Recording	
VHS Hi-Fi Stereo System	
•	
Zero Search	

## 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 <u>cellophane tape</u>.



## Maximum Record/Playback Time

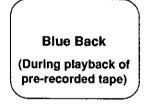
Only use tapes with the VHS or SVHS mark in this unit.

Tape Speed	Type of Video Cassette		
Position	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

## **Cleaning Care for Video Heads**



Clogged Video Head Picture



Blue Back Screen

#### **Clogged Video Heads**

While your VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the illustration on the left or the screen becomes solid blue when playing back a pre-recorded signal on the tape, the heads probably require cleaning.

#### **Cleaning the Heads**

It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. Be sure to follow the cleaning instructions carefully. Excessive use of a cleaning cassette could shorten head life. Use this cassette only when symptoms occur.

## **Reset all VCR Memory Functions**

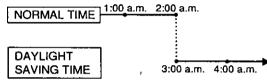
This operation is convenient when moving the VCR to a new location, or if a mistake was made in the One Time VCR Setup section. Make sure a tape is not inserted in the VCR.

- 1) Turn VCR Power on.
- 2) Press and hold both Play and Rewind buttons on the VCR for more than 5 seconds.
  The power will shut off.
- 3) Perform the One Time VCR Setup section on page 12.

## D.S.T. (Daylight Saving Time)

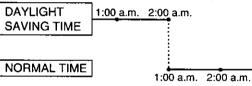
#### Spring:

First Sunday in April (DAYLIGHT SAVING TIME:AUTO) Automatically adds one hour and adjusts the clock.



#### Autumn:

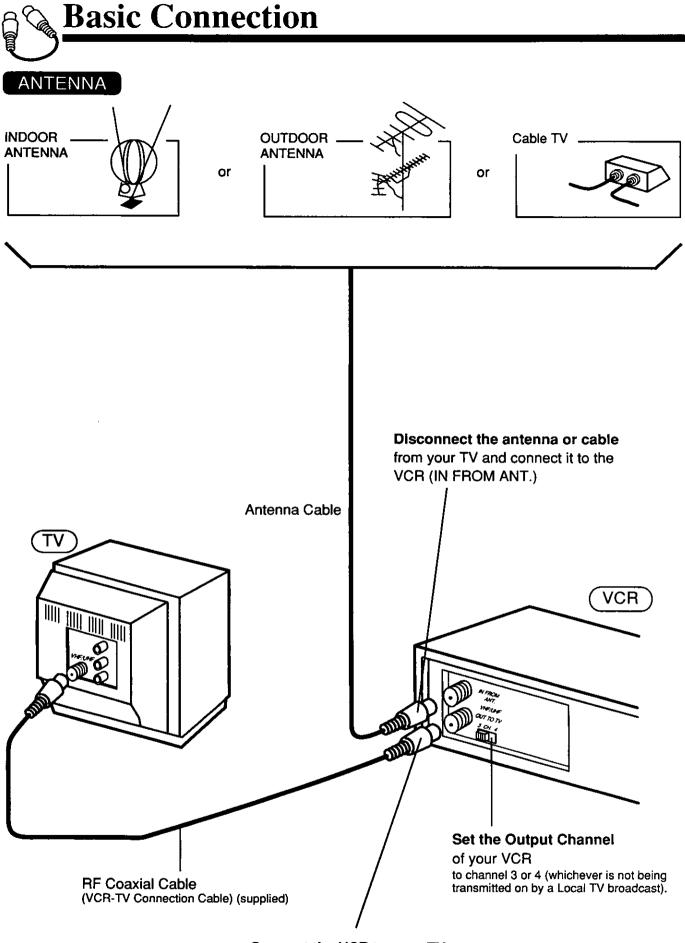
Last Sunday in October (DAYLIGHT SAVING TIME: AUTO) Automatically turns back one hour and adjusts the clock.



## **Product Specifications**

Power Source: Power Consumption:	120V AC, 60 Hz Approx. 28 watts(Power on)
Video Signal: Video Recording System:	Approx. 8 watts(Power off) EIA Standard NTSC color 4 rotary heads helical scanning system
Audio Track:	1 track (Normal) 2 channel (Hi-Fi Audio Sound)
Tuner:	
Broadcast Channels:	VHF 2~13, UHF 14~69
CATV Channels:	Midband A through I (14~22)
· · · · · · · · · · · · · · · · · · ·	Superband J through W (23~36)
	Hyperband AA~EEE (37~64)
	Lowband A-5~A-1 (95~99)
	Special CATV channel 5A (01)
	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)
<b>Operating Humidity:</b>	10%~75%
Weight:	8.8 lbs. (4.0 Kg)
Dimensions:	14-15/16" (W) X 3-1/2" (H) X
	11-1/4" (D)
	380 (W) X 89 (H) X 285 (D) mm
Note: Designs and speci	fications are subject to change

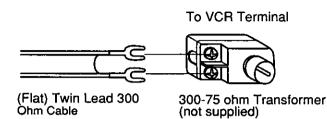
Note: Designs and specifications are subject to change without notice.



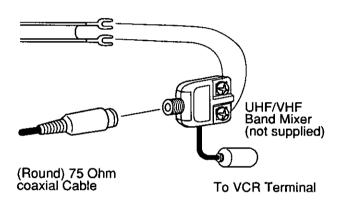
**Connect the VCR to your TV** with the RF Coaxial Cable (OUT TO TV).

#### Between Antenna and VCR

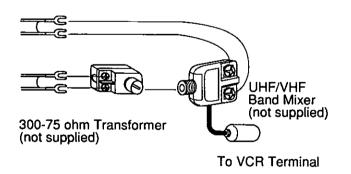
#### Case 1: Twin Lead Cable Only



#### Case 2: Twin Lead & Coaxial Cables



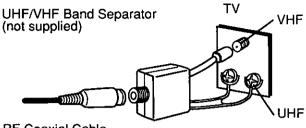
#### **Case 3: Two Twin Lead Cables**



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

#### Between VCR and TV

#### Case 1: Screw & Plug Type Terminal

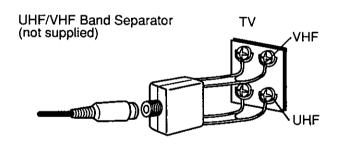


**RF Coaxial Cable** 

an D

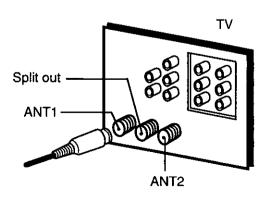
#### Case 2: Screw Type Terminal 75-300 ohm Transformer (not supplied) VHF or UHF

#### **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.



## CATV(Cable) Connections

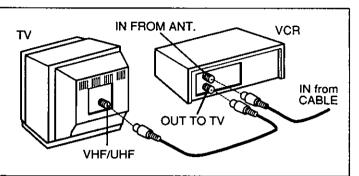
All connections on this page are made with 75 Ohm coaxial cables.

#### 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.

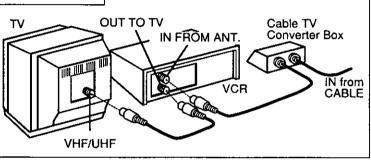
NOTE: You cannot record or view scrambled channels with this connection.



#### With a (CABLE to VCR) Converter/Descrambler Box

#### You can:

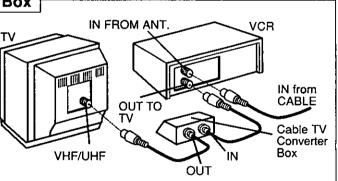
- Record and view any channel including scrambled channels; channel selection must be made at the Cable TV Converter Box.
- Program one channel for unattended recording.

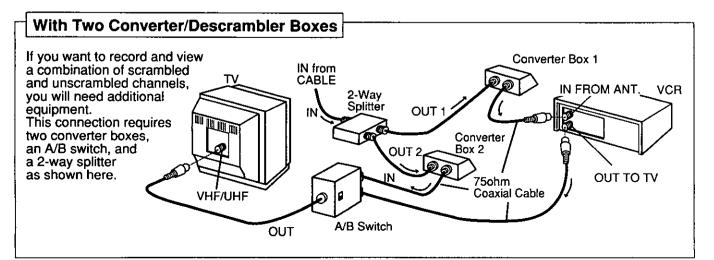


#### With a (VCR to TV) Converter/Descrambler Box

#### You can:

- 1) Use your VCR Remote Control to select channels.
- Program unattended recordings of more than one unscrambled channel.
- NOTE: You cannot record scrambled channels with this connection.

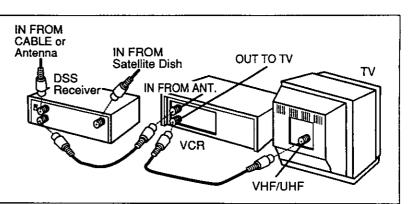




#### With a DSS Receiver

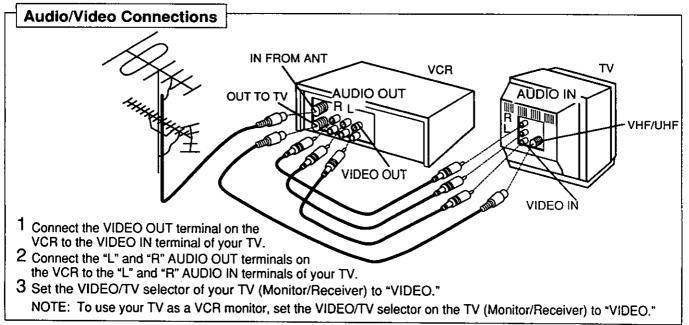
#### You can:

- 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

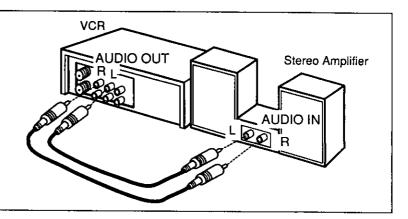
If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive a higher quality picture and sound. The antenna-VCR and VCR-TV connection is as shown.



#### **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.



\*\*DSS<sup>®</sup> is a registered trademark of DIRECTV, INC., a unit of GM Hughed Electronics.

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.

#### The setup on pages 12 through 14 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 12 ~14. Please look over the information before you begin setup procedure.

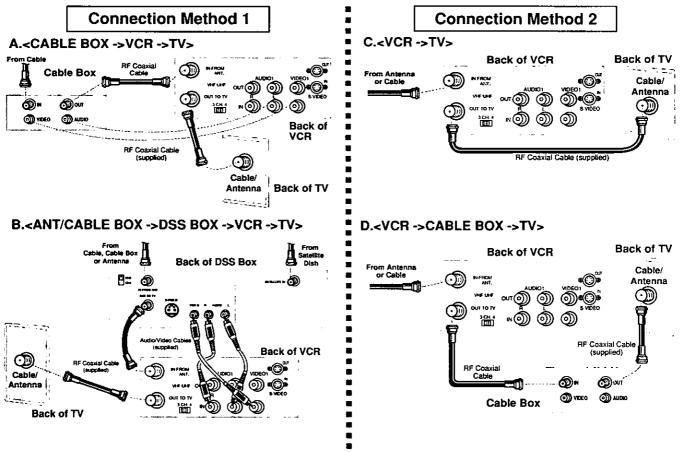
#### Setup Overview

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 Method 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 method 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 13.

#### **Cable Box**

Brand	Code Numbers
Archer	
Cableview	42, 44, 52, 63, 88
Citizen	42, 44, 52, 63, 88
Curtis	09, 56, 61, 87, 90
Diamond	1, 29, 44, 88, 91
Drake	
Eagle13, 20,	22, 26, 40, 58, 62
Eastern	
GC Brand	42, 44, 52, 63, 88
Gemini	
General Electric	57
General Instruments	
1, 2, 3, 4, 34, 55, Hamlin	83, 85, 91, 93, 95
Hamlin	14, 15, 28, 41
Jerrold1, 2, 3, 4, 34, 55,	
Macom, Hitachi	
Magnavox	
Movietime	
Movietime29,	
NSC	
Oak	11, 46
Panasonic	
Philips	
Pioneer	05, 06, 78
Pulser	
RCA	
Realistic	
Regal	

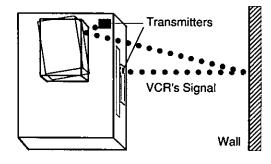
Brand	
Regency	
Rembran	29, 32, 39, 42, 44, 88
Salora	68, 72
Samsung	
Scientific Atlantic	8, 09, 56, 61, 87, 90
Sheritech	
SL Marx	
Sprucer	
Stargate	
Stargate	30, 42, 44, 52, 63, 88
Sylvania	
Telecaption	77, 92
Teknika	
Teleview	
Texscan	
Tocom	
Toshiba	
Uniden Satellite	
Unika	01, 29, 44, 88, 91
Universal	42, 43, 44, 52, 63, 88
Viewstar	13, 20, 22, 26, 40, 58, 62
Vid Tech	64
Vidter	64
Videoway	7, 23, 50
Zenith	
DSS (Digital Satellite	System Receiver)

Sony	יי 98 <sup>י</sup>
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 Universal Remote Control operation, please see page 29.

# **Positioning Your Cable Box or DSS Receiver**

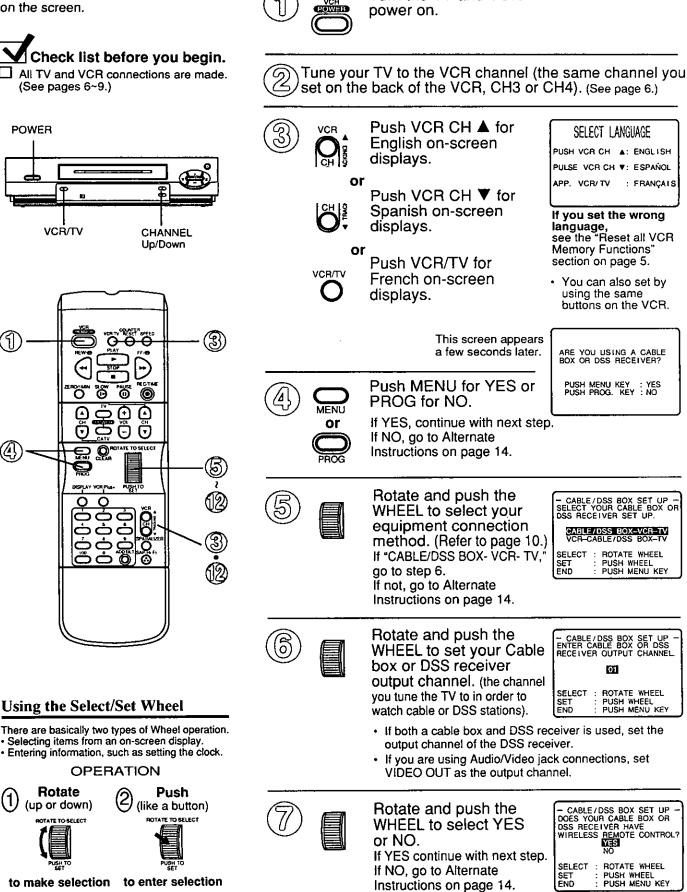
If your cable box or DSS receiver is remote controllable, place it on or near the VCR as shown in the example below. The VCR transmits an infrared signal from two locations. Be sure not to cover the transmitter windows.





# **One Time VCR Setup**

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



On-Screen Language, Cable box/ DSS receiver

Setup, Channel Memory, and Auto Clock

Turn the TV and VCR

	Rotate and push the WHEEL to set the Cable box or DSS receiver code number that matches your brand from the list on page 11. • This determines whether the VCR will control your cable box or DSS receiver.		If the Auto Clock Set displayed time is incorrect If you use a cable box and receive more than one PBS station, try auto clock set again. Follow the Set or Reset Auto Clock Set steps and when the
channel If you us	se a cable box, tune it to 02. se a DSS receiver, tune channel other than 200. Push WHEEL to continue	If Cable Box - CABLE/DSS BOX SET UP - PLEASE TUNE YOUR CABLE BOX TO CHO2. If DSS Receiver PLEASE TUNE YOUR DSS RECEIVER TO CH 270. PROCEED : PUSH WHEEL	instructions call for you to enter a PBS station, make sure to enter the one you have not tried yet. If AUTO CLOCK SET INCOMPLETE appears
10	Rotate and push the WHEE to select YES or NO. If you use a cable box and selected YES, go to step 11. If you use a DSS receiver and selected YES, go to the Alternar Instructions on page 14. If NO, the screen in step 8 will reappear. Try entering a different code assigned to your brand and/ or repositioning the equipment (see page 11). If the answer is still NO, cable box or DSS receiver control is not available. Push MENU and go to the Alternate Instructions on page 14.	CABLE / DSS BOX SET UP - IS YOUR CABLE BOX RECEIVING CH 09 ?	The screen below will appear on-screen if auto clock set data is not available in your area. AUTO CLOCK SET IS INCOMPLETE PUSH MENU TO SET CLOCK Push MENU to display the manual clock set screen. (See the "Manual Clock Set" section on page 14.)
11	Rotate and push the WHEE to select and set the local PBS channel number you receive on your cable box. • If you live near a different time zone, enter the channel in your time zone.	PLEASE ENTER YOUR LOCAL PBS CHANNEL ON CABLE BOX CH 12 SELECT : ROTATE WHEEL SET : PUSH WHEEL	If you use a cable box and receive more than one PBS station, you may exit the manual clock set screen and try auto clock set again. Follow the Set or Reset Auto Clock Set steps and when the instructions call for you to
The second	Confirm that your cable box is on and that your DSS Box is o Push WHEEL to start CHANNEL AUTO SET and AUTO CLOCK SET. The following displays appear "CH AUTO SET PROCEED "CH AUTO SET PROCEED "AUTO CLOCK SET PROC This display appears when auto clock set is completed. <u>Confirm that the time is</u> <u>correct</u> and push CH	in sequence: DING" "ED"	<ul> <li>enter a PBS station, make sure to enter the one you have not tried yet.</li> <li>Auto clock set will be performed when the VCR is turned off for the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on at the time the VCR power is turned off.</li> </ul>
	to exit.	END : PUSH CH UP KEY	13

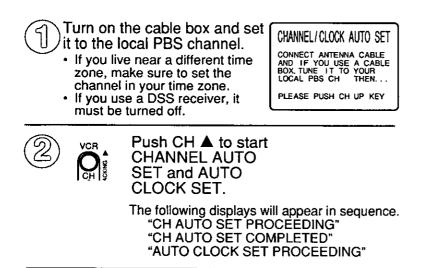


# One Time VCR Setup

## **Alternative Instructions**

Complete the following steps if, during one time setup, any of the following applies:

- A You selected NO in step 4 on page 12 (you do not use a cable box or DSS receiver).
- B You selected connection method 2 (VCR-CABLE DSS BOX- TV) in step 5 on page 12.
- C You selected NO in step 7 on page 12 (your cable box or DSS receiver is not remote controllable).
- D You use a DSS receiver and selected YES in step 10 on page 13.
- E Cable Box or DSS receiver can not be controlled in step 10 on page 13.



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



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

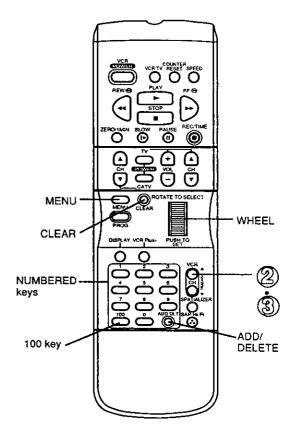
If this screen appears, auto clock set is not available in your area. Please set the clock manually as described at right. 12/25/1996 WED 12:00PM DST:ON SETTING : CHO2 AUTO CLOCK SET COMPLETED END : PUSH CH UP KEY

AUTO CLOCK SET IS INCOMPLETE 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.

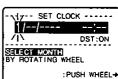
- 1 Make a note of the SETTING: CH number on screen and push CH ▲ to exit.
- 2 Delete the setting channel form channel memory. (See the Add or Delete a Channel section on page 15.)
- $m{3}$  Push MENU button to display the menu.
- 4 Use the Wheel to select "SET CLOCK" and then to select "AUTO SET."
  - 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 Rotate and push the Wheel to select and enter the month, date, year, time and D.S.T. (Daylight Saving Time).



 "DST:ON" automatically adjusts for daylight saving time. (See page 5.)

#### To Make Corrections,

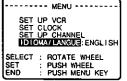
push the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

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



#### To Change On Screen Display Language

- 1 Push MENU to display the menu.
- 2 Rotate the Wheel to select the language selection item. (English: LANGUAGE, Spanish: SELECT IDIOMA, French: LANGUE).

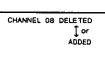


- 3 Push the Wheel to change the language. Each Push will change the language in the order shown. English -🔶 Spanish 🕨 French -
- 4 Push MENU to exit this mode.

#### To Add or Delete a Channel

1 Select a channel using the NUMBERED keys .

2 Push ADD/DLT to add or



- delete the channel. To select a deleted channel. use the NUMBERED keys
  - on the remote control. Deleted channels will flash in the Multi Function Display 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.

1 Push MENU to display the menu.

#### To Replace Channels in Memory

Example, if you have cable installed, etc.

- 2 Rotate and push the Wheel to select SET UP CHANNEL from menu, and then push to set your antenna system (TV or CATV).
- ROTATE WHEEL SELECT PUSH WHEEL PUSH MENU KEY SET END --- SET UP CHANNEL -- $m{3}$  Rotate and push the Wheel to ANTENNA SYSTEM : CATV CABLE/DSS BOX SET UP VCR Plus+ CH SET UP

SET UP VCR SET CLOCK SET UP CHANNEL IDTOMA/LANGUE:ENGLISH

- SELECT : ROTATE WHEEL PUSH WHEEL PUSH MENU KEY END
- 4 Follow the one time setup instructions on page 12~14.

To exit this mode, push MENU

select AUTO SET.

twice.

 Whenever channels are replaced in memory, auto clock set is also reprogrammed.

#### To Set or Reset the Clock

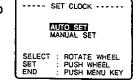
In case the clock is wrong, or a power failure occurred.

SET CLOCK I Push MENU to display the menu. ID IOMA/LANGUE; ENGLISH ----- SET CLOCK ------AUTO SET MANUAL SET 2 Rotate and push the Wheel to: (A) Select SET CLOCK ROTATE WHEEL PUSH WHEEL PUSH MENU KEY SELECT ; (B) Select MANUAL SET SET (C) Set the date, time, and D.S.T. (Daylight Saving 17-- SET CLOCK ----2/ 2/ 1996 FRI 1:30PM Time). D\$T:ON SELECT MONTH BY ROTATING WHEEL 3 Push MENU twice to start the clock and exit this mode. ←PUSH CLEAR: : PUSH WHEEL-TO START PUSH MENU KEY

#### 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 the time one time setup was done, but is available now.
- The PBS channel over which clock data is sent was changed by the broadcast company.
- I Push MENU to display the menu.
- 2 Rotate and push the Wheel to select SET CLOCK and then select AUTO SET.



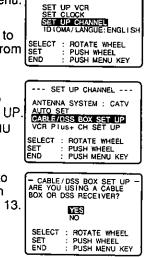
----- MENU ------

----- MENU -----

3 Follow the one time setup instructions on page 12~14.

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

- 1 Push MENU to display the menu.
- 2 Rotate and push the Wheel to select SET UP CHANNEL from menu.
- 3 Rotate and push the Wheel to select CABLE/DSS BOX SET UP To exit this mode, push MENU twice.
- 4 Rotate and push the Wheel to select YES and continue with steps 5~10 on pages 12 and 13.



END



- · This VCR will accurately maintain its calendar up to Dec. 31, 2014, 11:59PM.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your VCR is hooked up. By pushing the Wheel or CLEAR button repeatedly, you can skip forward or backward over correct entries and go directly to a specific item.

# **On Screen Displays (OSD)**

08

MENU

ID IOMA/ LANGUE: ENGLISH

ROTATE WHEEL

PUSH WHEEL PUSH MENU KEY

SET UP VCR SET CLOOK SET UP CHANNEL

SELECT :

END

WNET

#### **Channel & Function Display**

Whenever the channel is changed, the Channel number will appear for a few seconds on-screen. (Some station names may also appear.)

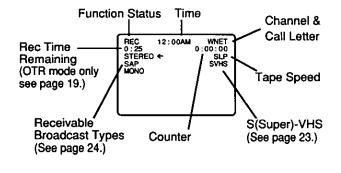
When a function button is pushed (PLAY, FF, etc.) the VCR mode will be displayed.

#### Menu Screen

- 1 Push MENU to display the menu.
- 2 Rotate and push the wheel to make your selection (see page 12).
  - To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.

#### VCR Status & Clock Display

Push DISPLAY to display and remove the overlay shown below.



#### Blank Tape and will be Blue Screen

If a blank section of tape is encountered in the Play mode or the channel you select has no broadcast, the TV screen will change to a solid blue field. The screen will remain blue until a recorded signal is again detected or an active channel is selected.

#### Warning and Instruction Displays

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

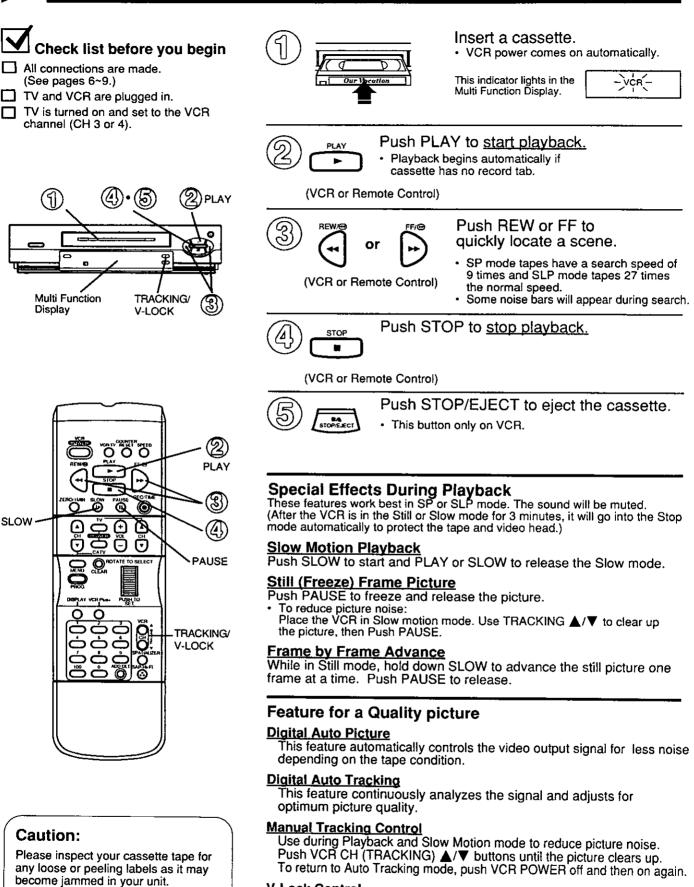
If no active channels are found for CHANNEL MEMORY	NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH VCR CH UP KEY AGAIN
If you attempt to set or review a Timer Recording and the Clock is not set	PLEASE SET CLOCK BEFORE PROGRAMMING
If a Timer Program was not completed before exiting the Program mode	PROGRAM IS INCOMPLETE
After a Timer Program has been set	TURN VCR OFF FOR TIMER RECORDING
If you push REC on the remote control or REC and PLAY on the VCR, and a cassette is inserted with no record tab	CHECK CASSETTE RECORD TAB

If you push PLAY, FF, REW, or REC on the remote control or if you push REC and PLAY, PLAY, FF, REW, or REC on the VCR without a cassette inserted...

NO CASSETTE PLEASE INSERT A CASSETTE

If you push POWER or STOP during a Timer Recording... (visible in VCR mode only) TO CANCEL TIMER REC PUSH POWER THEN STOP KEY

# Playback a Tape



#### V-Lock Control

In Still mode, the VCR CH (TRACKING)  $\blacktriangle/\nabla$  buttons operate as a V-Lock control to reduce jitter. Push  $\bigstar/\nabla$  until the picture is stabilized.

#### DynAmorphous™ Metal Head/

#### <u>CNR (Color Noise Reduction)</u>/ <u>ANR (Advanced Noise Reduction)</u> DynAmorphous<sup>™</sup> Metal Head increases playback and record picture quality. Color Noise Reduction reduces the color noise. Advanced Noise Reduction reduces the luminance noise.

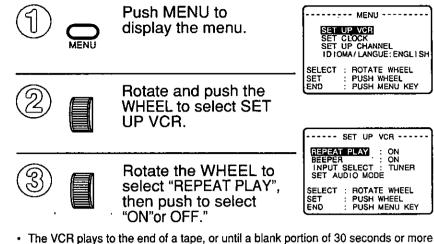


Your VCR is equipped with several time saving features as well as convenient automatic functions which make tape operation easier than ever.

#### Õ 6 Õ õ Č 6 0 Θ Ô Α Ö Ō Ô С О ତ

# **Repeat Play**

You can set your VCR up to play a recording over and over.



is reached. (Érased portions of tape are not considered blank.) The tape is then automatically rewound and played again and again until Repeat Play is cancelled. All function buttons (REW, FF, etc.) are operational during Repeat Play.



Push MENU twice to leave this screen.

# **Auto Operation Functions**

#### Auto Playback

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

#### **Auto Rewind**

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

#### Playback Auto Eject

After 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.

#### **Eject Cassette**

A cassette may be ejected with power on or off.

\* For record tab information, see page 5.

The VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.

Push ZERO/1MIN

in Play mode.

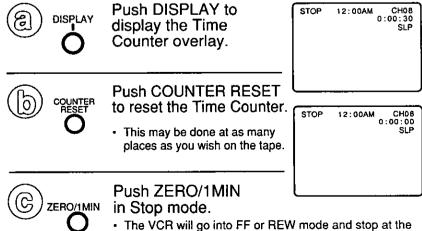
With this feature, you can skip over commercials recorded on a tape.

## Zero Search

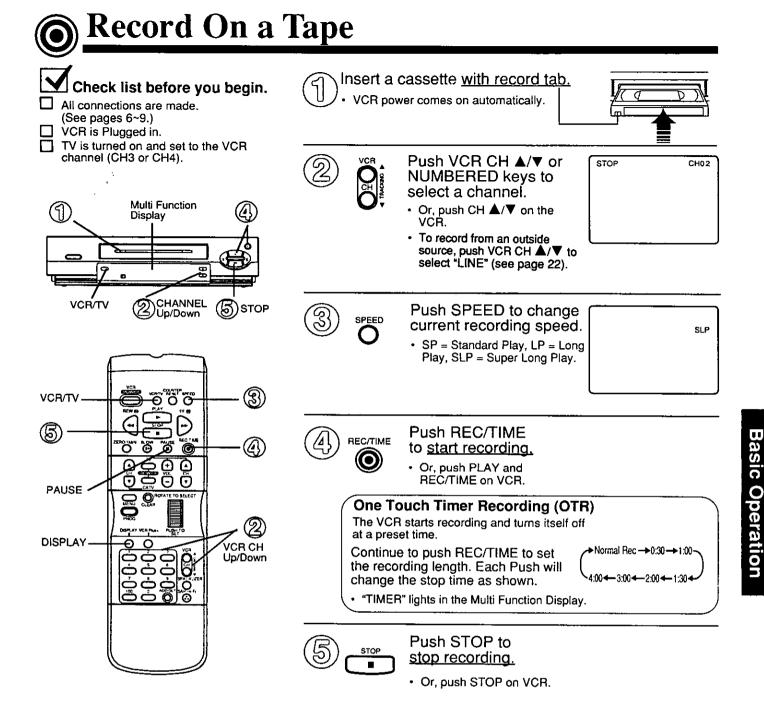
ZERO/1MIN

**One Minute Skip** 

You can reset the Time Counter to zero and then return to that point.



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



#### Watching Another TV Program

- 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.
  - Switch back and forth between the recording and viewing channel with the VCR/TV selector.

#### Selecting Channels at the VCR

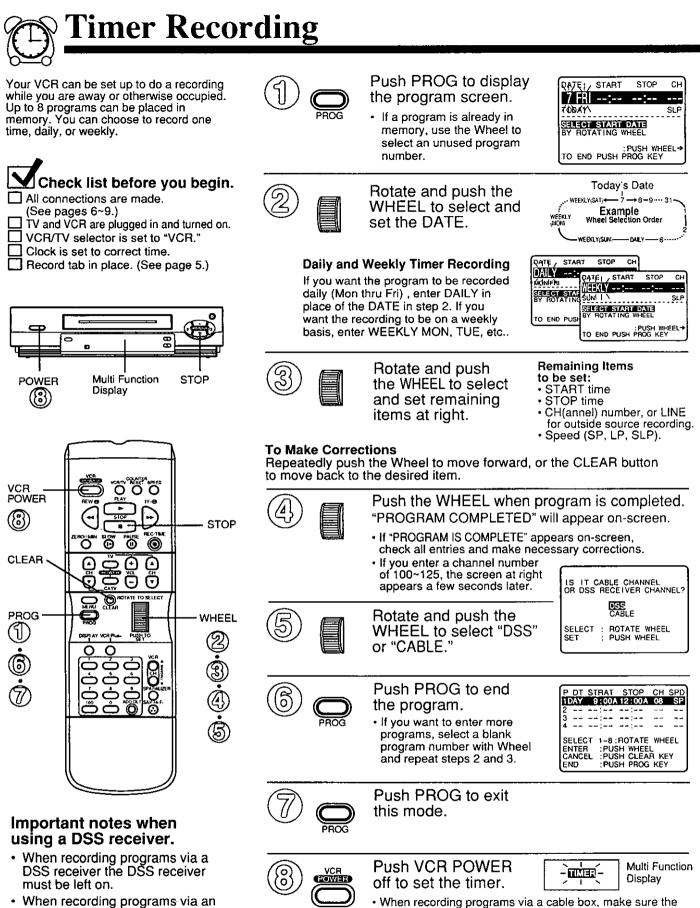
1 Turn TV on.

VCR(-

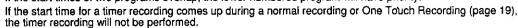
- Multi Function Display
- If indicator doesn't light, push VCR/TV to turn it on.
- 2 Use VCR CH ▲/▼ buttons to select channels for viewing or recording.
  - To resume TV control channel selection, push VCR/ TV to turn VCR indicator off, or simply turn VCR off.



- Holding down the VCR CH ▲/▼ buttons will increase the channel search speed.
- Push PAUSE to pause a recording in progress. (After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.)
- The recording time remaining appears if the DISPLAY button is pushed during OTR mode (See page 16).



- When recording programs via an antenna or cable, the DSS receiver must be turned off.
  - If a DSS channel is selected, the channel will appear as blue numbers on white background.
    - If the cassette record tab is missing at the time the VCR power is turned OFF, the tape ejects and the TIMER indicator flashes in the Multi Function Display.
  - If the start times of two programs overlap, the lower numbered program will have priority.



If "PROGRAM IS INCOMPLETE" appears on-screen in step 4, check all entries and make necessary corrections .

cable box is left on. If the cable box cannot be controlled with the VCR, you must manually select the desired channel.

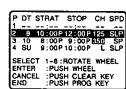
OTE

#### Cancel a Timer Recording: Recording <u>is</u> in progress

- Push the VCR POWER button to release the VCR from timer mode.
- 2 Push the STOP button within 10 seconds of pushing the VCR Power button to cancel the recording. The TIMER indicator goes out in the Multi Function Display.

#### Replace Program Contents: Recording <u>is not</u> in progress

 Push the PROG button to display all currently set programs.



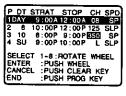
- 2 Rotate and push the Wheel to select and enter the desired timer recording. (See page 20.)
- **3** Rotate and push the Wheel to select and enter replacement information.

CATE START STOP CH SAT 10:00P 12:00P 125 TATA SP ROTATING WHEEL ←PUSH CLEAR :PUSH WHEEL→ TO END PUSH PROG KEY

4 Push the PROG button to exit this mode and return to the normal TV screen.

#### Review or Clear Program Contents: Recording <u>is not</u> in progress

- Push the PROG button to display all currently set programs.
- 2 Rotate the Wheel to select the desired program number.
- **3** Push the CLEAR button to clear the program.



PUSH PROG KEY

.

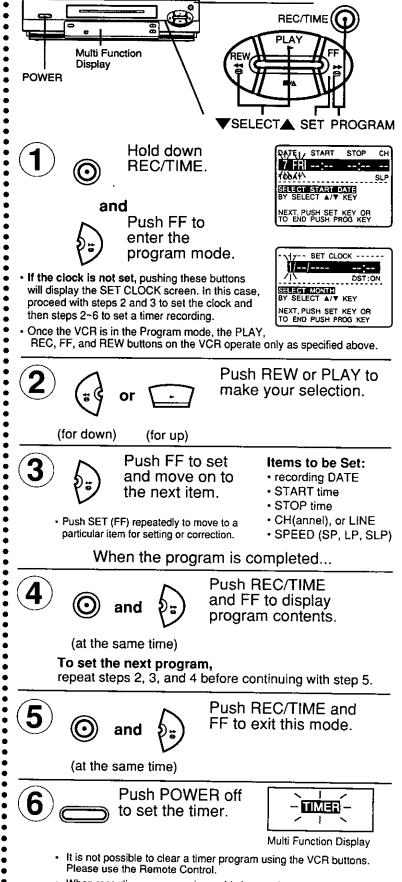
•

- CANCEL : PUSH CLEAR KEY END : PUSH PROG KEY d d P DT STRAT STOP CH SPD 2 8 10:00P 12:00P 125 SLP 3 10 8:00P 9:00P 10500 P 4 SU 9:00P 10:00P L SLP SELECT 1-8:ROTATE WHEEL ENTER : PUSH WHEEL
- **4** Push the PROG button to exit this mode and return to the normal TV screen.

END

# Timer Recording

A timer recording can be set up using the buttons on the VCR. If necessary, the clock can also be set.

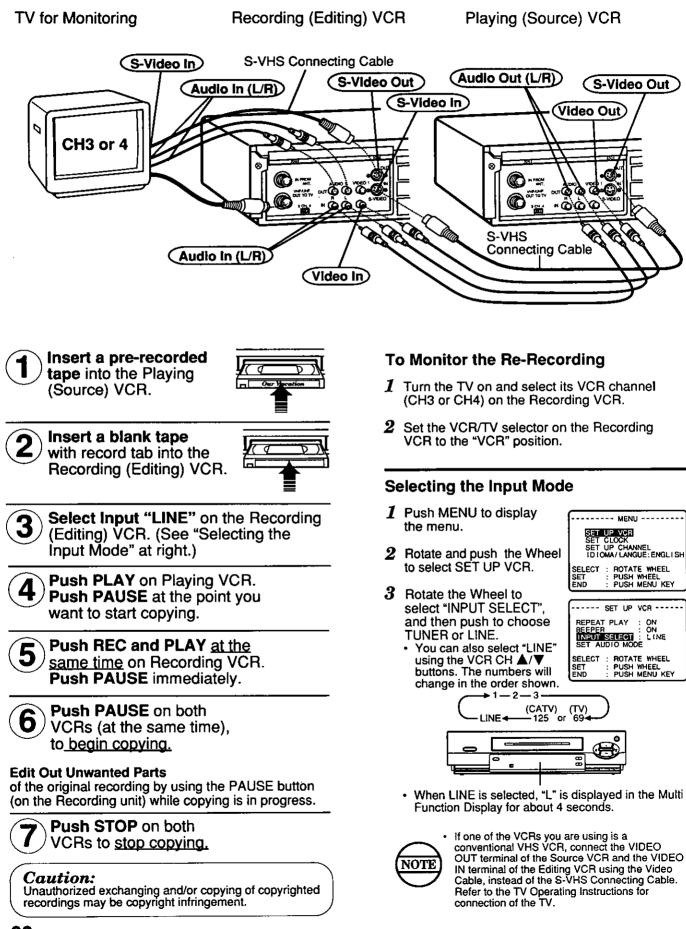


 When recording programs via a cable box, make sure the cable box is left on. If the Cable box cannot be controlled with the VCR, you must manually select the desired channel.



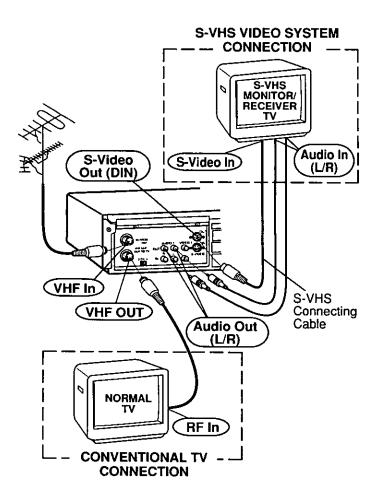
#### Connections you'll need to make.

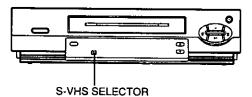
• on the editing S-VHS VCR, set the S-VHS selector to on.



# **SVHS** Super (S) VHS System

S-VHS tape playback is superior to VHS, even when using a conventional TV. And, your S-VHS VCR can also play back VHS format tapes.







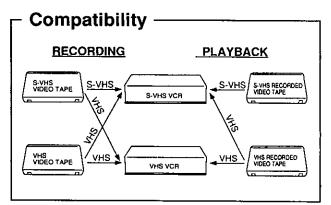
 A conventional VCR will not be able to play back your S-VHS recordings. To make recordings that are compatible with conventional VHS VCR's, use your S-VHS VCR with the S-VHS Selector switch set to "OFF".

The "S-VHS" Indicator appears on screen when the power comes on, when using an S-VHS tape to make an S-VHS recording and during S-VHS tape playback.

# S-VHS and VHS Tapes

Both Super-VHS and VHS recordings can be made on an S-VHS tape. Tapes recorded in VHS may be played back on either an S-VHS or VHS type VCR. Tapes recorded in S-VHS cannot be played back on a conventional VHS VCR.

 When a VHS recorded tape is played back on your S-VHS VCR, the VHS mode is automatically selected. Playback and Recording operations are described on pages 17 and 19.



# S-VHS/VHS System Selections

When the S-VHS Selector switch is set to on, the recording mode is automatically set according to the type of cassette tape used, S-VHS or VHS. When the S-VHS Selector switch is set to off, recording is done in the normal VHS mode, regardless of the type of cassette tape inserted. Use the off position when recording on an S-VHS tape in VHS mode to be played back on a VHS VCR.

S-VHS SELECTOR S-VHS AUTO	Cassette Tape	
	SUPER VHS	VHS
ON	S-VHS RECORDING	VHS RECORDING
OFF	VHS RECORDING	VHS RECORDING

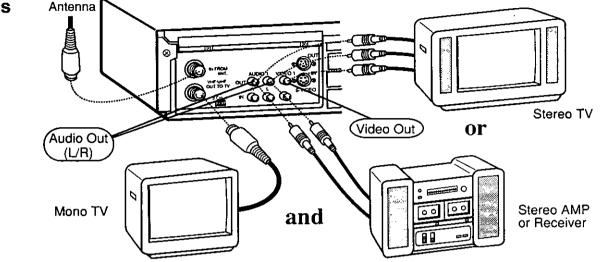


#### Check list before you begin

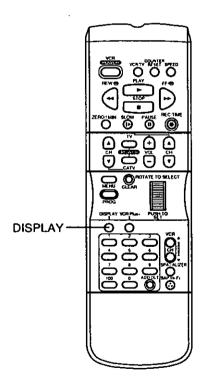
In from

The VCR is connected to a stereo TV, or a mono TV and 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 stereo amp and speakers.



Equipped with dbx<sup>®</sup> -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**<sup>®</sup> Technology Licensing.

## **Receivable Broadcast Types**

The following are possible broadcast types with their accompanying on-screen displays. The signal(s) not being received is enclosed in parenthesis. The currently selected audio mode is indicated with an arrow. To change the audio mode for listening to, or recording these broadcasts, follow the steps on page 25.

> Push DISPLAY to display the broadcast signal currently being received on-screen.

#### MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Second Audio Program (second language) broadcasts are being received simultaneously. Select the STEREO or SAP audio mode as desired.

#### MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast is being received.

#### SAP broadcast

DISPLAY

Second Audio Program (second language) broadcast is being received. Select SAP audio mode for the second language.

#### MONO broadcast

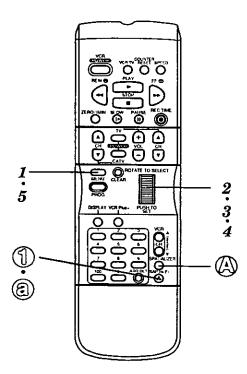
Normal monaural sound broadcast is being received.

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

	STOP STEREO SAP MONO	12:00AM ←	WNET 0:00:00 SLP
:	STOP STEREO (SAP) MONO		WNET 0:00:00 SLP
	STOP (STEREO SAP MONO	12:00AM ) ←	WNET 0:00:00 SLP

#### With the proper audio mode setting, your VCR can:

- 1) record and playback an MTS stereo broadcast (main language) in stereo Hi-Fi.
- record and playback a monaural broadcast (main language) or Second Audio Program (second language) on the Hi-Fi tracks for better quality monaural sound.
- playback non Hi-Fi tapes in monaural.



 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,

connected to a stereo TV or stereo amp

to normal audio sound. This is normal.

 There may be a difference in audio level between Hi-Fi and normal audio playback.

playback, the Hi-Fi audio sound may revert

the VCR AUDIO (L/R) jacks must be

and speakers. (See previous page.)

When adjusting the tracking during

OTES

Selecting the Audio Mode for Recording

Select the type of broadcast and sound track you wish to record.



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

Please refer to "Receivable Broadcast Types" section on previous page.

STEREO	÷	
SAP MONO		

The currently selected audio mode is indicated with an arrow.



Do a recording.

See the "Record On a Tape" section on page 19.

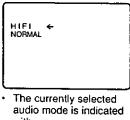
# Selecting the Audio Mode for Playback

Select the type of sound track you desire for playback.



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

 Please select HIFI to listen to your stereo recordings with stereo sound or MONO for monaural sound.



with an arrow.

Playback the tape.

0 See the "Playback a Tape" section on page 17.

# Spatializer Feature

This feature allows you to enhance the stereo sound so that it seems to completely surround you.

Note: Your VCR needs to be hooked up to a stereo TV or stereo amp/receiver with speakers (see page 24). For playback, tapes must be recorded in Hi-Fi stereo. For TV viewing, programs must be broadcast in stereo.



Push SPATIALIZER repeatedly to choose the desired setting. · Each push will change the display in the order shown.

SPATIALIZER	HIGH 🖣
SPATIALIZER	LOW
SPATIALIZER	

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.

#### To Select Audio Mode From Menu

- Push MENU to display the menu.
- 2 Rotate and push Wheel to select SET UP VCR from menu.
- 3 Rotate and push the Wheel to select SET AUDIO MODE.
- 4 Push the Wheel to set the desired audio for listening or recording. · For recording, set to "STEREO", "SAP", or "MONO".
  - · For playback, set PLAY AUDIO to "Hi-Fi", or "MONO".
- 5 Push MENU three times to exit this mode.

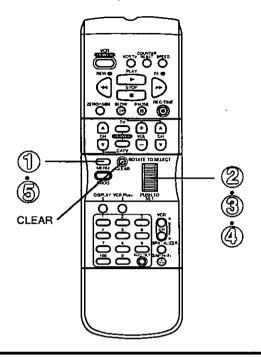


More You Can Do

This setup is for VCR Plus+ and timer programming only.

VCR Plus+ programming allows you to set most items of a timer recording by simply entering a special code found in *TV GUIDE* magazine as well as the TV listings in selected newspapers. In order for the VCR to read this special 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.

VCR Plus+ Set Up



RAMEL

#### **Channel Set Up Preparations**

NOTE: Complete the steps on this page if you are using Connection Method 2 on page 10 for VCR hookup. Prepare a list like the example below.

This list will help you smoothly enter the information needed in step 4 at right.

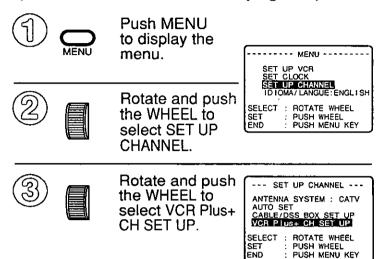
#### You will need the following to complete the list:

- 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	
		$\overline{}$

### VCR Plus+ Channel Set Up (Connection Method 2 on page 10)



#### **IMPORTANT NOTE:**

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



Push WHEEL to move the shaded area on the right side.

VCR Plus+ CH SET UP		
GUIDE CH	CATV CH	
→ 01 02		
SET : PI	OTATE WHEEL USH WHEEL USH MENU KEY	

Then, rotate the Wheel to change CATV or TV CH number.

Next, push the Wheel to enter CATV or TV CH number.

Now, rotate the Wheel to continue. Repeat this operation until the list is complete.

#### To Make Corrections

Rotate and push the Wheel to select the incorrect CATV or TV CH number. Then, Push CLEAR to delete the numbers. Now, use the Wheel to re-enter the channel.



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

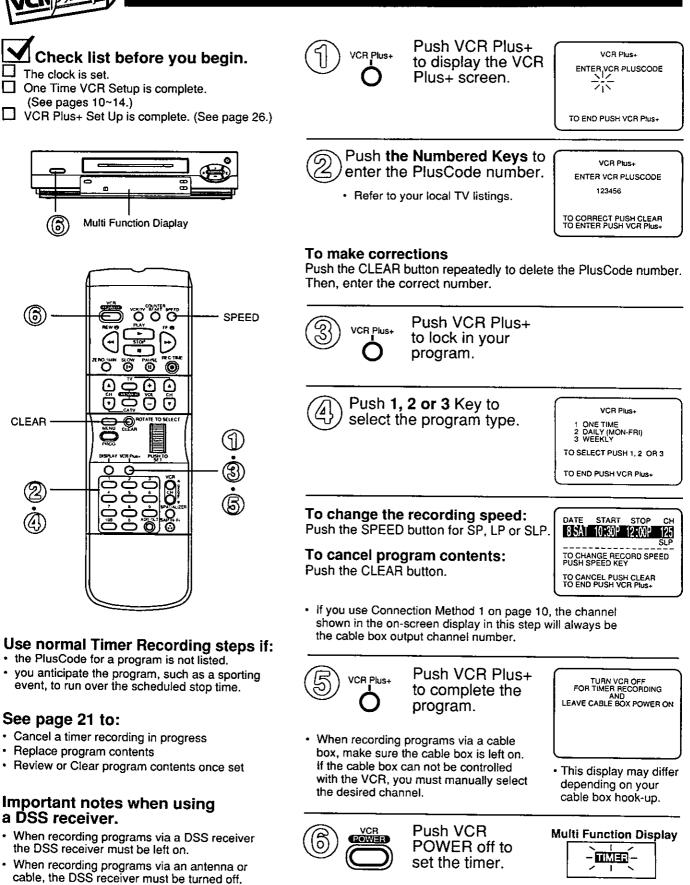


 Make your entries within 60 seconds or the VCR will leave this mode.

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

VCR Plus+C<sup>3</sup> and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

# VCR Plus+ Programming



- NOTES
- 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.
- Avoid overlapping program times.
- An on-screen display will indicate if an invalid PlusCode number has been entered.
- An on-screen display will indicate when all timer programs are full.

Special VCR Features



TV is turned on and set to the VCR

## VCR Lock Feature

When activated, this feature prohibits all operations except for timer recording, and tape eject. This is useful to prevent misoperation and protect your VCR from curious children.



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

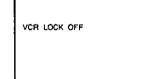
VCR	LOCK	ACTIVATED	

#### To Cancel the VCR Lock feature,



STOP/EJECT

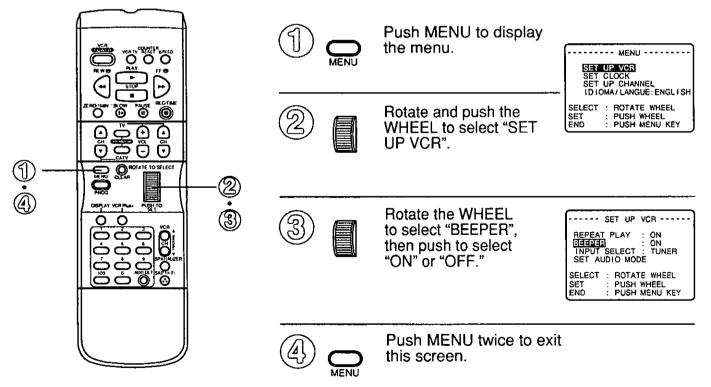
Hold down STOP/EJECT on the VCR for 7 seconds again during Stop, or Power OFF mode.



• VCR Lock mode is cancelled automatically after 24 hours when the clock is set.

# Warning Beeper Feature

When you select BEEPER ON as described below, a short warning will sound each time an invalid entry or operation is made and a timer program is set.



(See pages 6~9.) VCR is Plugged in.

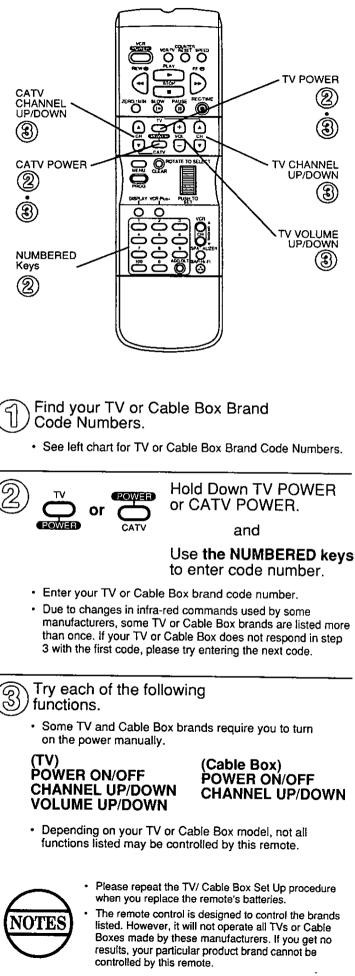
channel (CH3 or CH4).

Multi-Brand Control Feature

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

TT Brund Oode Mumbers	
Panasonic	
Quasar	01, 02
RCA	
GE	03
Zenith	04
Magnavox	
Sylvania	05
Sharp	06, 07
Sony	
Toshiba	
Sanyo	
Fisher	10
JVC	
Hitachi	
Mitsubishi	
Samsung	
Gold Star	15, 16, 17

Cable Box Brand Code Nur	nbers
Archer 01, 29	
Cableview	0 63 85 88
Citizen	, 00, 00, 00
Curtis	2,03,03,00
Diamond01, 29	), 61, 67, 90 ) <i>11</i> 99, 01
Drako	7,44,00,91 07
Drake Eagle	
Eastern	, 50, 62, 98
GC Brand	
Comini	:, 63, 85, 88
Gemini General Electric	
General Instruments	
01, 02, 03, 04, 34, 55, 83, 85	, 91, 93, 95
Hamlin	5, 28, 41, 97
Hitachi	
Jerrold 01, 02, 03, 04, 34, 55, 83, 85	i, 91, 93, 95
Macom	
Magnavox	25, 26
Matsushita	
Movietime	32 38 40
Movietime	42.44.88
NSC	32 38 40
Oak	02, 00, 40
Panasonic	16 17
Philips	
Pioneer	, 23, 24, 90
Pulser	
Puiser	, 63, 85, 88
RCA	
Realistic	44, 88
Regal	14, 41
Regency	
Rembrandt	
Samsung	, 42, 78, 94
Scientific Atlanta	61.87.90
Sheritech	27
SL Marx	42 78 94
Sprucer	16 17
Stargate	42 78 04
Stargate4, 30, 42, 44, 52	62 05 00
Sylvania	, 03, 03, 06
Tologantion	
Telecaption	
Teleview	, 42, 78, 94
Texscan	
Tocom01, 33, 34, 42	, 48, 49, 91
Toshiba	
Unika01, 29	, 44, 88, 91
Universal 42 43 44	52 63 88
Viewstar	. 58. 62. 98
Videoway	.07.23.50
Zenith	07 23 50

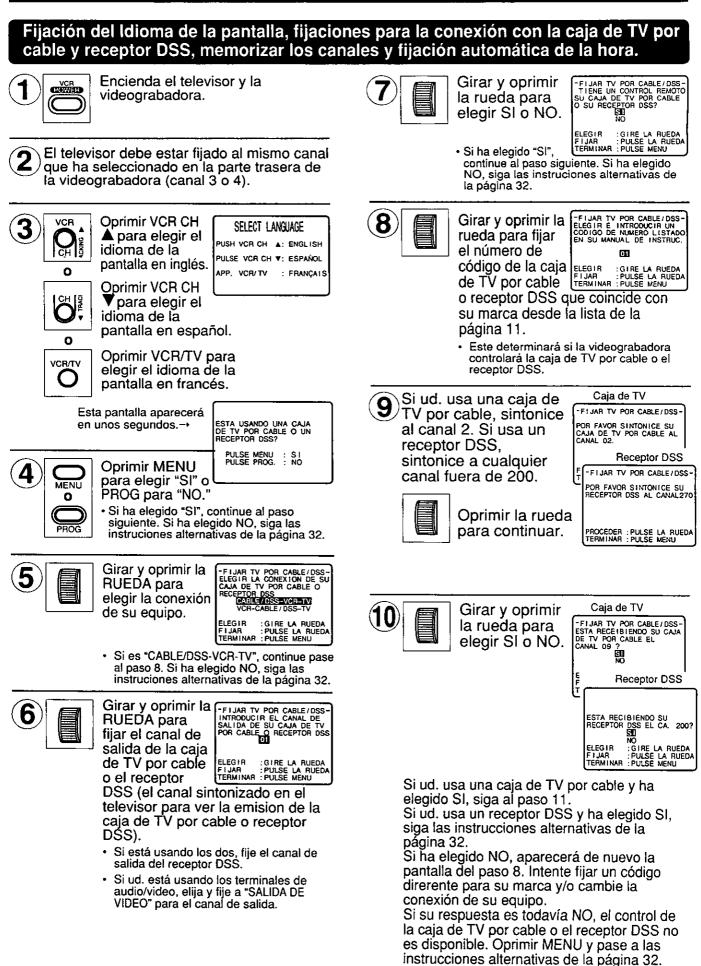


**Before Requesting Service** 

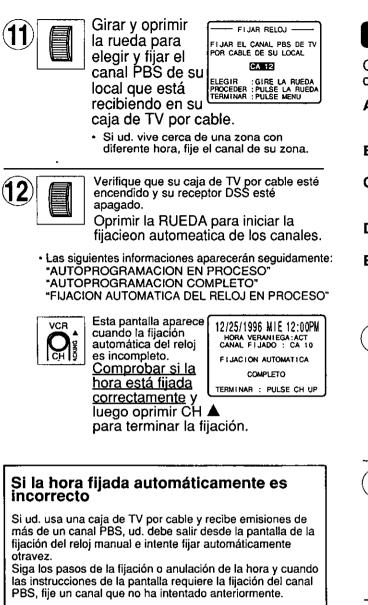
Check the following points once again if you are having some trouble with your VCR.

Power	Correction
No power	<ul> <li>Check that the Power Plug is completely inserted to an AC outlet.</li> <li>Check that the POWER button is set to on.</li> </ul>
Recording & Playback	Correction
TV program can't be recorded	<ul> <li>Check the connections between the VCR, the external antenna, and your TV.</li> <li>Check that the band selected matches your antenna or cable TV system. (P.15)</li> <li>Make sure that the record tab on the back of the cassette is still intact. (P.5)</li> </ul>
Timer recording can't be performed	<ul> <li>Set the recording start/stop times correctly. (P.20)</li> <li>Make sure that the POWER button is set to off. (P.20)</li> <li>Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before, or during, Timer Recording, even if power resumes thereafter.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select the same channel on your TV as that of the Channel 3/4 switch located on the rear panel of the VCR. (P.6)</li> <li>Set the VCR/TV selector to "VCR". (P.17)</li> <li>Check that channel 3 or 4 of the TV is properly adjusted.</li> <li>Adjust the TRACKING control slowly in either direction. (P.17)</li> </ul>
During special effects playback, the picture may contain some vertical jitter when using a TV which has an Automatic Vertical Hold Control	<ul> <li>Set the TV's Vertical Hold Control to "MANUAL" and then adjust it.</li> </ul>
If the top of your 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.
VCR can't be controlled	Make sure that VCR LOCK is set to off. (P. 28)
Remote Control	Correction
VCR can't be remote controlled	<ul> <li>Aim the Remote Control directly at the remote sensor on the VCR. (Refer to Back Cover.)</li> <li>Avoid all obstacles which may interfere with the signal path.</li> <li>Inspect or replace the batteries (P.4).</li> <li>Make sure that VCR LOCK is set to off. (P. 28)</li> <li>Exposing theVCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
Miscellaneous	Correction
You can't view programs normally on TV	Set the VCR/TV selector to "TV". (P.19)
Video cassette can't be inserted	<ul> <li>Insert the cassette with the window side up and the record tab facing you.</li> </ul>
Video cassette can't be removed	• Check that the power plug is completely connected to an AC outlet.
Video cassette ejects when the REC and PLAY buttons are pushed or when the POWER button is pushed off to set the Timer	<ul> <li>Make sure the record tab on the back of the cassette is still intact. (P.5)</li> </ul>
In the stop mode, the motor (CYLINDER) continues to rotate	<ul> <li>To enable the quick play mechanism, the cylinder will rotate for about 5 minutes.</li> <li>The quick play mechanism reduces response time from stop to PLAY mode from PLAY to REWIND search mode.</li> </ul>
VCR can't be controlled	Make sure that VCR LOCK is set to off. (P. 28)

# Spanish Quick Use Guide/Guía para rápida consulta



# <mark>Spanish Quick Use Guide</mark>/Guía para rápida consulta



#### Si aparece en la pantalla FIJACION DEL RELOJ INCOMPLETO

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

Oprimir MENU para ver

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO

PULSE LA RUEDA PARA FIJAR EL RELOJ

la pantalla de la fijación manual del reloj. (Consulte la "Fijacion Manual del reloj" en la página 33).

#### 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 los pasos de la fijación o anulación de la hora 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 cuando la videograbadora se apaga.

#### Instrucciones alternativas

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

- A Ud. ha elegido NO en el paso 4 de la página 31 (ud. no está usando una caja de TV por cable o un receptor DSS).
- B Ud. ha elegido la segunda conexión (VCR-CABLE/DSS-TV) en el paso 5 de la página 31.
- C Ud. ha elegido NO en el paso 7 de la página 31 (su caja de TV por cable o receptor DSS no tiene un control remoto).
- D Ud. está usando un receptor DSS y ha elegido SI en el paso 10 de la página 31.
- E No se puede controlar la caja de TV por cable o receptor DSS en el paso 10 de la página 31.

Encienda la caja de TV por cable y fije la caja de TV por cable al canal PBS de su zona. FIJACION AUTO. (CA/RELOJ) CONECTE EL CABLE DE LA ANTENA V SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO... POR FAVOR OPRIMIR CH UP

- 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.

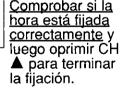


Oprimir CH ▲ para iniciar la fijacieon automeatica de los canales.

 Las siguientes informaciones aparecerán seguidamente: "AUTOPROGRAMACION EN PROCESO"
 "AUTOPROGRAMACION COMPLETO"
 "FIJACION AUTOMATICA DEL RELOJ EN PROCESO"

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





12/25/1996 MIE 12:00PM HORA VERANIEGA:ACT CANAL FIJADO : CA 10 FIJACION AUTOMATICA COMPLETO TERMINAR : PULSE CH UP

Si aparece esta pantalla, la fijación automática no es disponible en su zona. Por favor fije la hora manualmente como describe al siguiente.

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO PULSE LA RUEDA PARA FIJAR EL RELOJ

# Si la hora y la hora veraniega es incorrecta, por favor siga los siguientes pasos:

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 A.
- 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 Use la rueda para elegir "FIJAR RELOJ" y luego para elegir "AUTO MATICO."
  - Si ud. esta usando una caja de TV por cable y tiene muchos canates PBS, sintonize la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez.

## Fijación manual del reloj

- Oprimir MENU para que aparezca la pantalla de la fijación del reloj.
- 2 Girar y oprimir la RUEDA para elegir y fijar el mes, la fecha, el año, la hora y la hora veraniega.



Para hacer correcciones Oprimir la rueda o el botón CLEAR repetídamente para retroceder o avanzar hasta el paso que desea corregir.

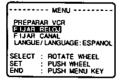
3 Oprimir MENU dos veces para iniciar a funcionar el reloj y salir desde este modo.



#### Fijación o cambio de la hora

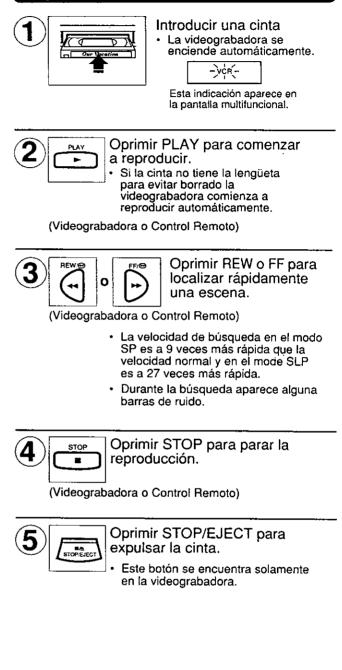
En caso de que el reloj está incorrecto o ha ocurrido un corte eléctrico.

- Oprimir MENU para que aparezca la pantalia del menú.
- 2 Girar y oprimir la RUEDA para elegir la pantalla de la fijación del reloj y luego fijar la hora y la fecha.
- 3 Oprimir MENU dos veces para iniciar a funcionar el reloj y salir desde este modo.

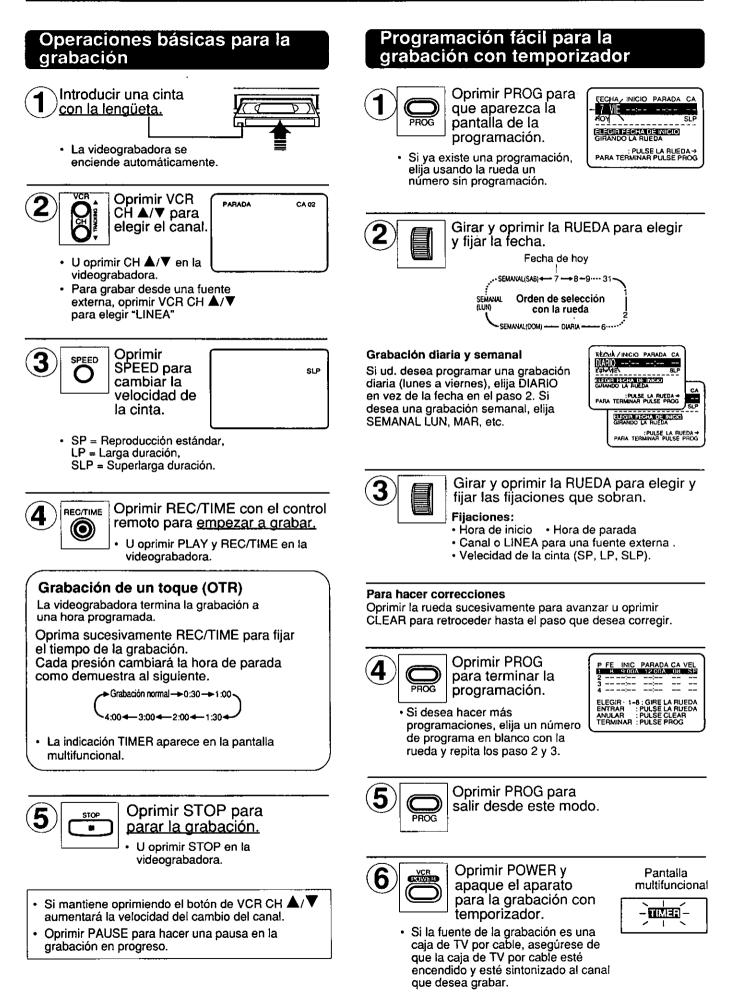


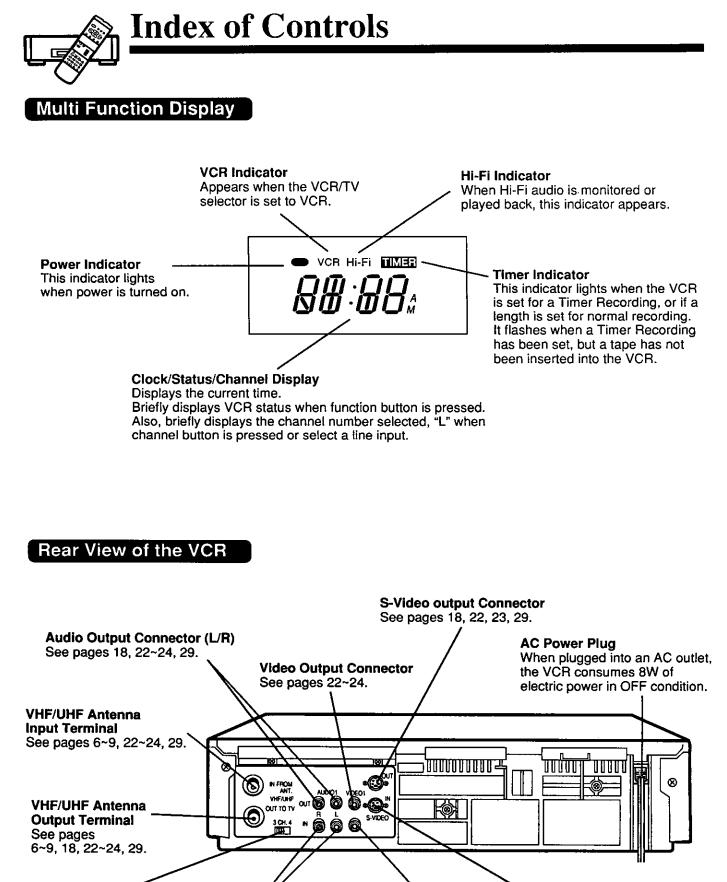


#### Operaciones básicas para la reproducción



# Spanish Quick Use Guide/Guía para rápida consulta





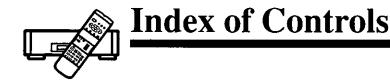
**Video Input Connector** 

See pages 18, 22.

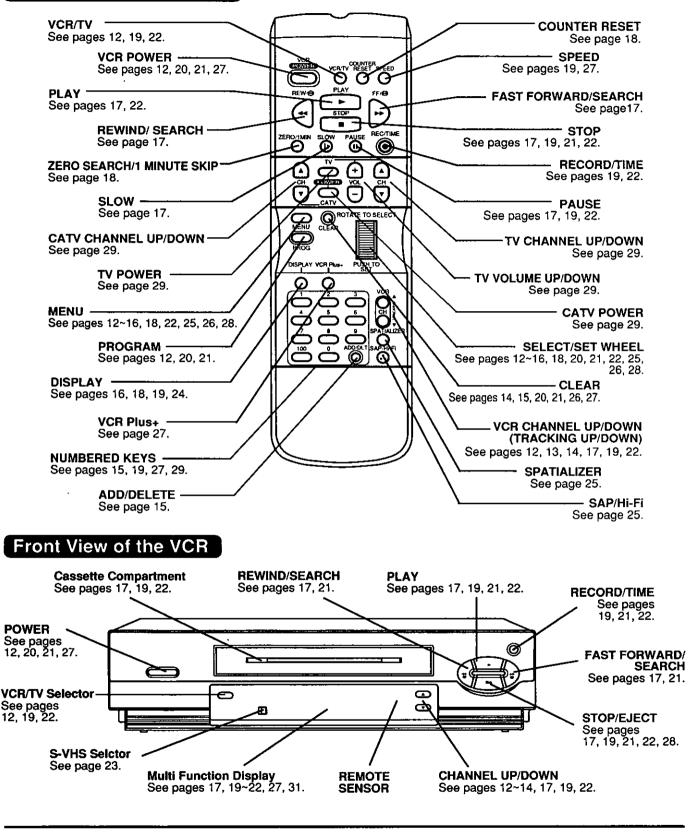
Channel 3/4 Switch See pages 6, 12.

> Audio Input Connector (L/R) See pages 18, 22.

S-Video Input Connector See pages 18, 22, 29.



#### Remote Control Button



Matsushita 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. ("PSC") Ave. 65 de Infanteria. Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

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