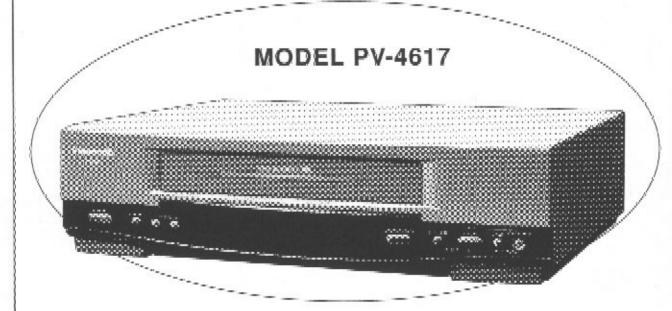
Thank you for choosing

Panasonic VHS Omnivision VHS



Video Cassette Recorder



Operating Instructions

Please read these instructions carefully before attempting to connect, operate or adjust this product and save this manual. Spanish Duick Use Guide is included. Guia para rápida consulta en español está includo.

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.

Date of Purchase	
Dealer Purchased From	
Dealer Address	
Dealer Phone No	
Model No. <u>PV-4617</u>	
Serial No	 ,

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment.

Only use those tapes with the **YHS** 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.

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



NO USER-SERVICEABLE PARTS INSIDE

EFER SERVICING TO QUALIFIED SERVICE PERS



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.

Table of Contents

Important Safeguards and Precautions
Connections
Basic Connection (Antenna and VCR, VCR and TV)
Getting Started
One Time VCR Setup (On-screen Language, Channel Memory, Auto Clock Set)
Basic Operation
Playback a Tape (Main Operation, Special Effects, Quality Picture Features)
More You Can Do
Timer Recording (Main Operation, Cancel-Clear or Replace, Program Contents)
Copying Your Tapes (Dubbing) (Connection, Main Operation, Monitoring)
VCR Plus+ Set Up (Cable Box Set Up, VCR Plus+ Channel Set Up)
Special VCR Features (VCR Lock, Warning Beeper)
Other Information
Before Requesting Service (Self-check items)

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 Video product, or in this Manual. Your Electric Utility Service Company or Video Products Dealer will be happy to verify the power source in your home.

2. THE GROUNDED OR POLARIZED PLUG IS A SAFETY FEATURE 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

routed so that they are not likely to have anything rest on 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 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.
- Avoid built-in installations, such as a bookcase or rack, unless proper ventilation is provided.
- 5. AVOID EXTREMELY HOT LOCATIONS OR SUDDEN CHANGES IN TEMPERATURE such as placing the unit near or over a radiator, in direct sunlight, closed vehicles, or transporting it suddenly periods.

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.

form on the tape and inside the unit.

TO AVOID INJURY TO A CHILD, ADULT;
OR COSTLY DAMAGE:

a. Do not place unsecured equipment on a sloping surface or any heavy object or unit.

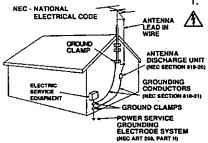
(Use the unit in a horizontal position and do not place)

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.

 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



ANTENNA
ANTENNA
ANTENNA
DISCHARGE UNIT
(NECE SECTION SIG-20)
NO CLAMPS
NECE SECTION SIG-20)
NO CLAMPS
SERVICE
SIGNOLOGE SYSTEM
SEA, PART 16)

1. INSURE SAFE ANTENNA
AND CABLE CONNECTIONS
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. 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.

2. ELİMINATE ANTENNA PROXIMITY TO HIGH VOLTAGE POWER SOURCES, OR CHANCE OF ACCIDENTAL CONTACT BY INSTALLER 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

AFTER STORING OR WHEN MOVING THE UNIT, REFER TO THE INSTALLATION SECTION OF THE SAFEGUARDS.

1. DO NOT USE THIS VIDEO UNIT NEAR WATER: around bathtubs, sinks, laundry, wet basement, swimming pool or any water source.

2. USE ACCESSORIES RECOMMENDED ONLY BY THE

USE ACCESSORIES RECOMMENDED ONLY BY THE
 MANUFACTURER to avoid risk of fire, shock or other hazards.
 UNPLUG ALL EQUIPMENT EXPOSED TO RAIN, MOISTURE, OR

STRONG IMPACT AND GET A QUALIFIED INSPECTION
If your unit has been exposed to rain, water, excessive moisture, or subjected to strong impact, unplug it and have it inspected by a service technician before use.

4. UNPLUG UNUSED UNIT, AND ALL EQUIPMENT DURING A STORM During a lightning storm, when indoors or outdoors, or before leaving unit unused for extended periods of time, disconnect all equipment from power source, antenna and cable system.

5. UNPLUG ALL EQUIPMENT BEFORE CLEANING. After unit has been unplugged use a dry, clean, chemically untreated cloth. Use no cleaning fluids, aerosols, or forced air that could over-spray, or soak into the unit, and cause electrical shock. Any substance such as wax, adhesive tape, etc. may affect the cabinet surface.

Exposure to greasy, humid, or dusty areas may affect internal parts.

6. WHEN PLUGGED-IN: KEEP WATER AWAY; NO FINGERS
INSIDE NOR ANY OBJECTS INSIDE; AND NO MAGNETS OR
ELECTRICAL INTERFERENCE NEARBY.

- 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.
- 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.
- c. Separate the unit from any interference causing appliances. Placing the unit directly above or below your TV set may cause electrical interference. Keep all magnets away from electronic equipment.

SERVICE

1.

◮

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.

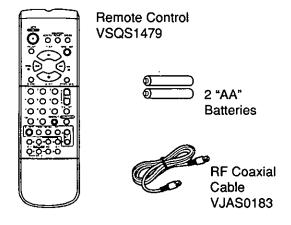
 HAVE TECHNICIAN PERFORM SAFETY CHECK described in the manufacture's service literature, after any service or repairs, to determine that the Video unit is in safe operating order.

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

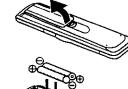


Optional Accessories

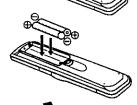
• 1/2" Video Cassette Tape

Load the batteries in the Remote Control

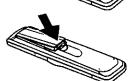
I Lift off the lid after pressing in and up on the latch with your thumb nail or other narrow object.



Install two batteries as indicated inside the Battery Compartment.



Fit the lid's hinge piece into the indent on the case, and snap lid into place.



Battery replacement caution

• Do not mix old and new batteries. (Also, never mix alkaline with manganese batteries.)

Product Features

All Channel Auto Set/ 181-CH TV/CATV Tuner	10
Auto Clock Set	
Auto Daylight Saving Time	5
Auto Operation Functions (Auto Playback, Rewind, Tape Eject, Power off)	
Auto Repeat Function	15
Digital Auto Picture	14
Easy-to-Read English/Spanish/French On Screen Displays	10, 11, 12, 18, 19
Multi Brand TV/Cable Box Remote Control	26
One Minute Skip	15
One Month, 8 Program Timer Recording	18, 19
One Touch Recording (OTR)	
Quick Play Mechanism	27
Special Effects Playback	14
Special VCR Features (VCR Lock, Warning Beeper)	
VCR Plus+ Recording	22, 23, 24
Zero Search	15

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 <u>cellophane tape</u>.



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.
- 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 10.

Maximum Record/Playback Time

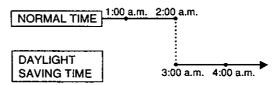
Only use tapes with the WHS mark in this unit.

Tape Speed	Type of Video Cassette		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		

D.S.T. (Daylight Saving Time)

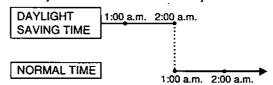
Spring:

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.



Cleaning Care for Video Heads



or

Blue Back

(During playback of pre-recorded tape)

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.

Product Specifications

Power Source: 120V AC, 60 Hz

Power Consumption: Approx. 18 watts (Power On)

Approx. 6 watts (Power Off)

Video Signal: EIA Standard NTSC color Video Recording System: 4 rotary heads helical scanning

system 1 track (Normal)

Audio Track:

Tuner:

Broadcast Channels: CATV Channels:

VHF 2~13, UHF 14~69

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 41°F~104°F (5°C~40°C)

Operating Temperature: Operating Humidity:

10%~75%

Weight: Dimensions:

7.9 lbs. (3.6 Kg) 14-3/16" (W) X 3-1/2" (H) X

11-1/4" (D)

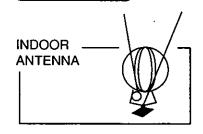
360 (W) X 89 (H) X 285 (D) mm

Note: Designs and specifications are subject to change

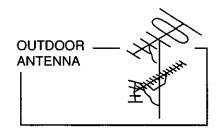
without notice.

Basic Connection

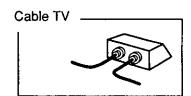
ANTENNA

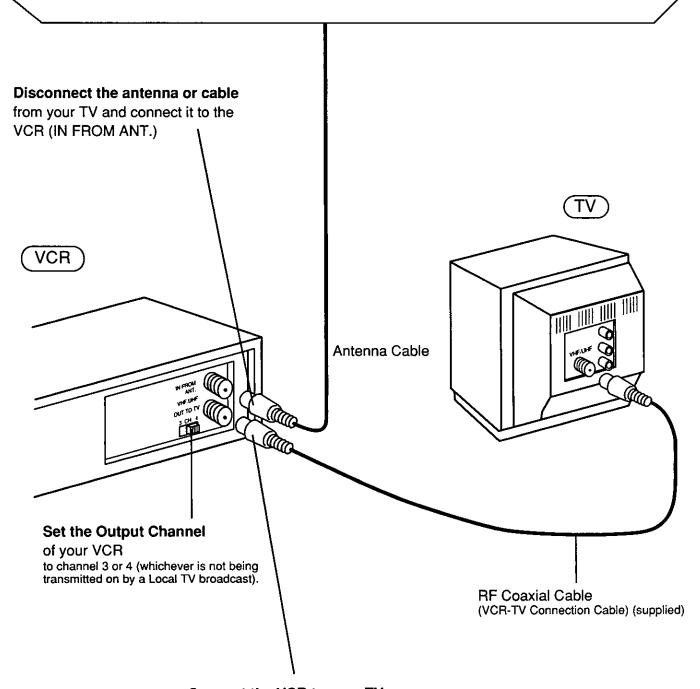


or



or

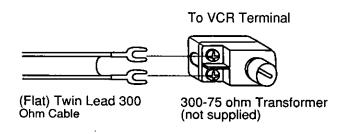




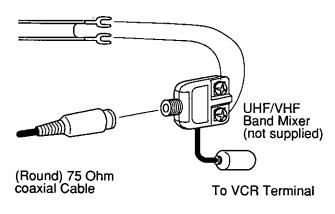
Connect the VCR to your TV with the RF Coaxial Cable (OUT TO TV).

Between Antenna and VCR

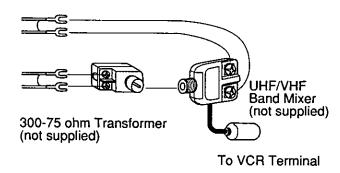
Case 1: Twin Lead Cable Only



Case 2: Twin Lead & Coaxial Cables



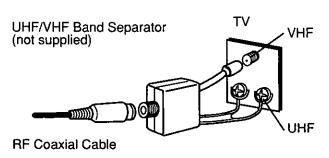
Case 3: Two Twin Lead Cables



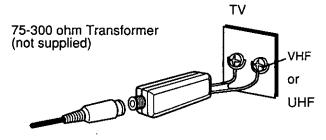
 If your TV has both post and screw-type VHF terminals, using the post connection is recommended to minimize signal loss.

Between VCR and TV

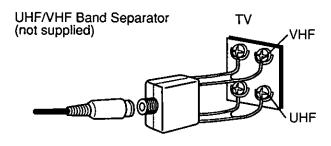
Case 1: Screw & Plug Type Terminal



Case 2: Screw Type Terminal

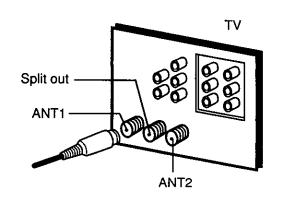


Case 3: Double Screw Type Terminal



Case 4: Complex TV Terminal

TERMINALS ON BACK OF TV SET



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

Additional Connections

CATV(Cable) Connections

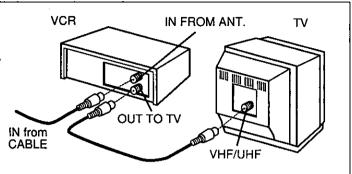
All connections on this page are made with 75 Ohm coaxial cables.

Without a Converter/Descrambler Box

You can:

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

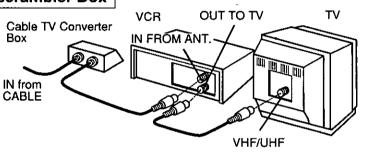
NOTE: You cannot record or view scrambled channels with this connection.



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.

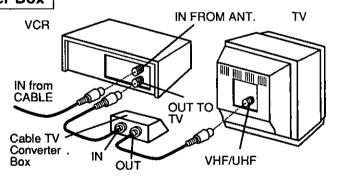


With a (VCR to TV) Converter/Descrambler Box

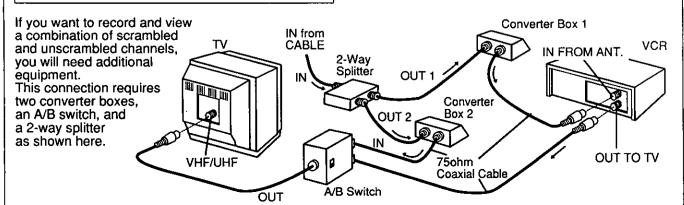
You can:

- 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 Two Converter/Descrambler Boxes

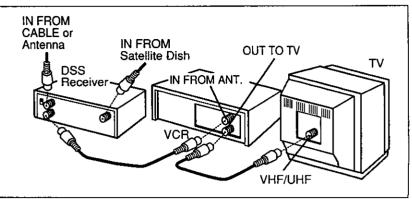


With a DSS Receiver

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.

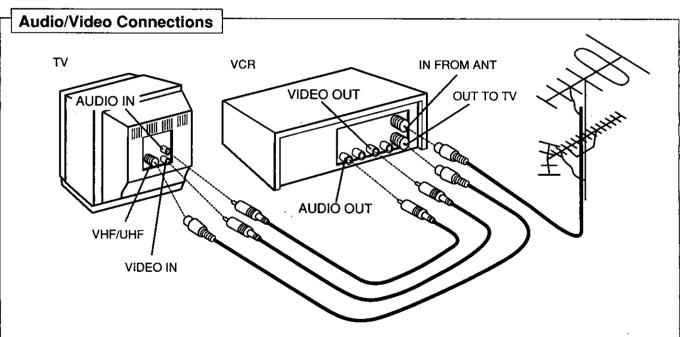
NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.



^{**}DSS® is a registered trademark of DIRECTV, INC., a unit of GM Hughed Electronics.

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.



- 1 Connect the VIDEO OUT terminal on the VCR to the VIDEO IN terminal of your TV.
- 2 Connect the AUDIO OUT terminals on the VCR to the 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."

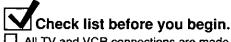
Note to CATV system installer:

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.

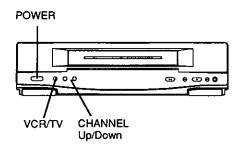


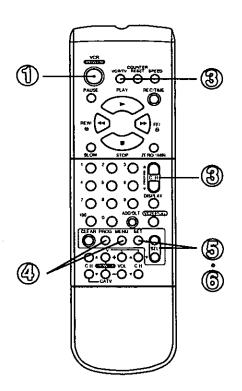
One Time VCR Setup

When the VCR power is first turned on, the language select and channel auto set screen appear automatically followed by a prompt to set the clock.



All TV and VCR connections are made. (See pages 6~9.)





To Set Language, Channel and Clock



VCR (20)WER

Turn TV on and VCR on.

TV is set to VCR channel (the Same one you set on the back of the VCR CH3 or CH4.) (See page 6.)





Push CH ▲ for English on-screen displays.



or

Push CH ▼ for Spanish on-screen displays.



Push VCR/TV for French on-screen displays.

You can also set by using the same buttons on the VCR.

> This screen appears a few seconds later.→



MENU or

PROG

Push MENU for "YES" or PROG for "NO."

· If YES, continue with next step. If NO, go to step 8.

SELECT LANGUAGE

PUSH VCR CH A: ENGLISH PULSE VCR CH ▼: ESPAÑOL APP. VCR/TV : FRANÇAIS

If you set the wrong language, see the "Reset all VCR Memory Functions" section on page 5.

ARE YOU USING A CABLE BOX OR DSS RECEIVER?

PUSH MENU KEY : YES PUSH PROG. KEY : NO





Push SELECT UP/DOWN and SET to Select your equipment connection method.

· If "CABLE/DSS BOX-VCR-TV", continue with next step. If not, go to step 8.

- CABLE/DSS BOX SET UP -SELECT YOUR CABLE BOX OR DSS RECEIVER SET UP.

PUSH SELECT ▲/▼ PUSH SET KEY PUSH MENU KEY





Push SELECT UP/DOWN and SET to set Cable Box or DSS Receiver output channel (the channel you tune the TV to in order to watch cable or DSS stations).

· If you are using Audio/Video iack connection for your cable box, select and set "VIDEO OUT" as the output channel.

- CABLE/DSS BOX SET UP ENTER CABLE BOX OR DSS RECEIVER OUTPUT CHANNEL

М

SELECT SET END

PUSH SELECT A/ PUSH SET KEY PUSH MENU KEY



Turn on the cable box and set it to the PBS channel in your time zone.

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





Push CH ▲ to start Channel Auto Set and Clock Auto Set.

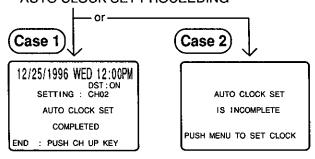
CHANNEL/CLOCK AUTO SET

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

PLEASE PUSH CH UP KEY

These on-screen displays will appear in sequence.

- CH AUTO SET PROCEEDING
- CH AUTO SET COMPLETED
- AUTO CLOCK SET PROCEEDING





Case 1

Confirm that displayed time is correct and push CH ▲ to exit.

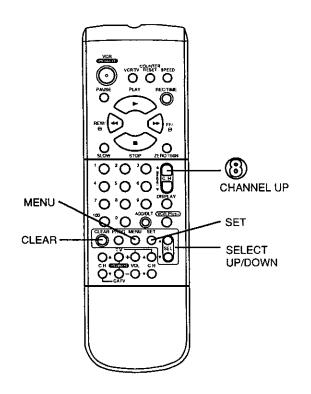
If the displayed time and D.S.T. are incorrect, please proceed as follows:

In the rare event that you live close to two different time zones, the VCR may recognize the wrong PBS station as the setting channel. In this case, please do the following:

- 1 Make a note of the SETTING:CH number shown on-screen and push CH ▲ to exit.
- 2 Delete the setting channel from the VCR channel memory. (See the Add or Delete a channel section on page 12.)
- 3 Push the MENU button to display the menu.
- 4 Push the SELECT Up/Down and SET 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.

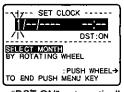


If the screen above appears, auto clock set is not available in your area. Please set the clock manually as described at right.



Manual Clock Set

- Push MENU to display the set clock screen.
- 2 Push the SELECT Up/Down and SET 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 SET or CLEAR button repeatedly to move back or forward to the desired item.

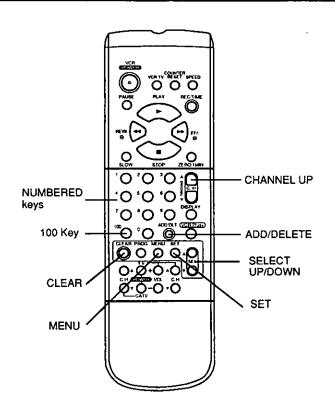
3 Push MENU twice to start the clock and exit this mode.



IMPORTANT NOTE FOR AUTO CLOCK SET:

- Auto clock set will be performed when the VCR is turned off 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 and tuned to the PBS channel before the VCR
 power is turned off.
- · If you use a DSS receiver, it must be turned off for auto clock set.
- 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.

One Time VCR Setup (continued)



To Replace Channels in Memory

Example, if you have cable installed, etc.

- $oldsymbol{I}$ Push MENU to display the menu.
- 2 Push the SELCT Up/Down and SET to select SET UP CHANNEL from menu, and then to set your antenna system (TV or CATV).
- 3 Push the SELCT Up/Down and SET to select and set AUTO SET.
 - To exit this mode, push MENU.
 - · If you use a cable box, turn on the cable box and set it to the PBS channel in your time zone.
- 4 Push CH ▲ to start Channel Auto Set.
 - Auto Clock Set is always performed when replaced channels in memory.



--- SET UP CHANNEL ---ANTENNA SYSTEM : CATV AUTO SET CABLE/DSS BOX SET UP VCR Plus+ CH SET UP

SELECT : PUSH SELECT A/T SET : PUSH SET KEY END : PUSH MENU KEY

CHANNEL/CLOCK AUTO SET

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

PLEASE PUSH CH UP. KEY

To Change On Screen Display Language

1 Push MENU to display the menu.

2 Push the SELECT Up/Down to select the language selection item.

(English: LANGUAGE, Spanish: IDIOMA, French: LANGUE).

3 Push the SET to change the language.

· Each push will change the language in the order shown.



4 Push MENU to exit this mode.

To Set or Reset the Clock

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

- $oldsymbol{1}$ Push MENU to display the menu.
- 2 Push the SELECT Up/Down and SET to:
 - (A) Select SET CLOCK
 - (B) Select MANUAL SET
 - (C) Set the date, time, and D.S.T. (Daylight Saving Time).
- 3 Push MENU twice to start the clock and 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 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.



This VCR will accurately maintain its calendar up to Dec. 31, 2014, 11:59PM.

CHANNEL 08 DELETED

†or

ADDED

---- MENU -----

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

SELECT

PUSH SELECT A/PUSH SET KEY
PUSH MENU KEY

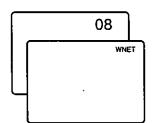
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your VCR is hooked up.
- By pushing the SET or CLEAR button repeatedly, you can skip forward or backward over correct entries and go directly to a specific item.



On Screen Displays (OSD)

Channel & Function Display

Whenever the channel is changed, the Channel number followed 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.

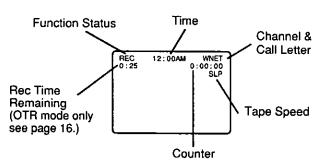
Menu Screen

- 1 Push MENU to display the menu.
- 2 Push SELECT UP/DOWN and SET to make your selection.
 - To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.

SET UP VCR SET UP CHANNEL SET UP CHANNEL ID IOMA/LANGUE: ENGLISH SELECT: PUSH SELECT A/V SET: PUSH SET KEY END: PUSH MENU KEY

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...

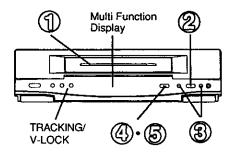
NO CASSETTE
PLEASE INSERT A CASSETTE

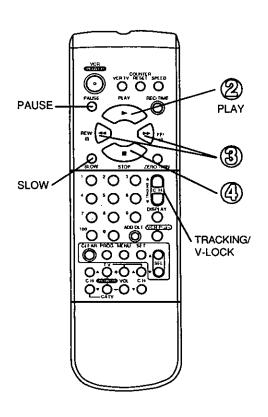
If you Push POWER or STOP during a Timer Recording... (visible in VCR mode only) TO CANCEL TIMER REC PUSH POWER THEN STOP KEY

▶ Playback a Tape

Check list before you begin

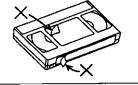
- All connections are made. (See pages 6~9.)
- TV and VCR are plugged in.
- TV is turned on and set to the VCR channel (CH 3 or 4).

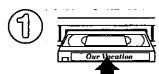




Caution:

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





Insert a cassette.

· VCR power comes on automatically.

This indicator lights in the Multi Function Display.



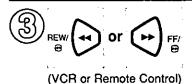




Push PLAY to start playback.

 Playback begins automatically if cassette has no record tab.

(VCR or Remote Control)



Push REW or FF to quickly locate a scene.

- SP mode tapes have a search speed of 9 times and SLP mode tapes 27 times the normal speed.
- · Some noise bars will appear during search.



Push STOP to stop playback.

(VCR or Remote Control)



Push STOP/EJECT to eject the cassette.

· This button only on the VCR.

Special Effects During Playback

These features work best in SP or SLP mode. The sound will be muted. (After the VCR is in the Still or Slow mode for 3 minutes, it will go into the Stop mode automatically to protect the tape and video head.)

Slow Motion Playback

Push SLOW to start and PLAY or SLOW to release the Slow mode.

Still (Freeze) Frame Picture

Push PAUSE to freeze and release the picture.

To reduce picture noise:
 Place the VCR in Slow motion mode. Use CH (TRACKING) ▲/▼ to clear up the picture, then push PAUSE.

Frame by Frame Advance

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

Feature 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

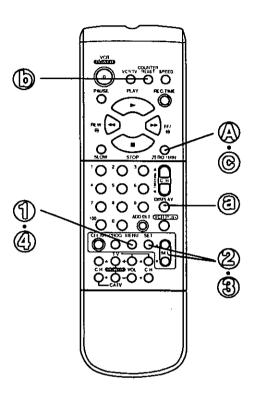
Use during Playback and Slow Motion mode to reduce picture noise. Push CH (TRACKING) ▲/▼ buttons until the picture clears up. To return to Auto Tracking mode, push POWER off and then on again.

V-Lock Control

In Still mode, the CH (TRACKING) ▲/▼ buttons operate as a V-Lock control to reduce jitter. Push ▲/▼ until the picture is stabilized.

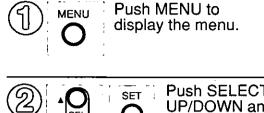
Tape Operation

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



Repeat Play

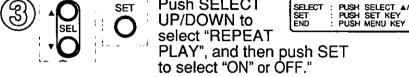
You can set your VCR up to play a recording over and over.



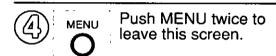
SET CLOCK SET UP CHANNEL ID10MA/LANGUE:ENGLISH PUSH SELECT ▲/ PUSH SET KEY PUSH MENU KEY **Push SELECT** END UP/DOWN and SET to select ---- SET UP VCR -----SET UP VCR. REPEAT PLAY BEEPER : ON INPUT SELECT : TUNER Push SELECT

----- MENU -----

SET UP VCA



The VCR plays to the end of a tape, or until a blank portion of 30 seconds or more is reached. (Erased 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.



One Minute Skip

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



Push ZERO/1MIN in Play mode.

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

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

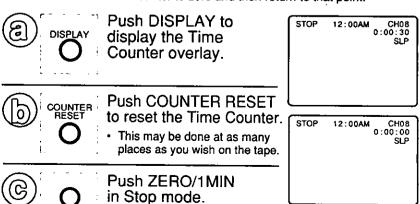
A cassette may be ejected with power on or off.

* For record tab information, see page 5.

Zero Search

ZERO/IMIN

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.

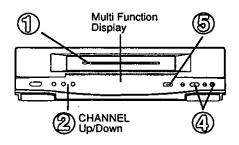
Record On a Tape

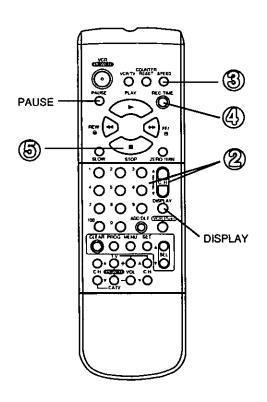


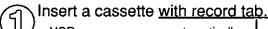
All connections are made. (See pages 6~9.)

VCR is Plugged in.

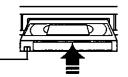
☐ TV is turned on and set to the VCR channel (CH3 or CH4).







VCR power comes on automatically.



CH02

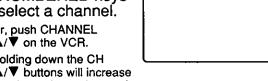


Push VCR CH ▲/▼ or NUMBERED keys to select a channel.

Or, push CHANNEL ▲/▼ on the VCR.

 Holding down the CH ▲/▼ buttons will increase the channel search speed.

· To record from an outside source, push CH ▲/▼ to select "LINE" (see next page).

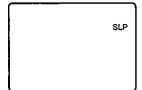


STOP

SPEED

Push SPEED to change current recording speed.

SP = Standard Play, LP = Long Play, SLP = Super Long Play.





REC/TIME

Push REC/TIME to start recording.

- · Or, push PLAY and REC/TIME on VCR.
- 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.)

One Touch Timer Recording (OTR)

The VCR starts recording and turns itself off at a preset time.

Continue to push REC/TIME to set the recording length. Each push will change the stop time as shown.

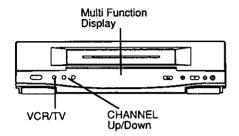
Normal Rec ->0:30 -> 1:00 -4:00 ← 3:00 ← 2:00 ← 1:30 ←

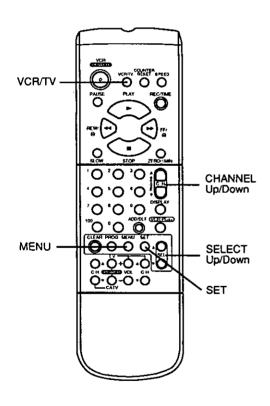
- · "TIMER" lights in the Multi Function Display.
- The recording time remaining appears if the DISPLAY button is pushed during OTR mode.



Push STOP to stop recording.

Or, push STOP on the VCR.

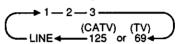




Selecting the Input Mode

- 1 Push the MENU button to display the menu.
- 2 Push the SELECT Up/Down and SET buttons to select "SET UP VCR."
- 3 Push the SELECT Up/Down to select "INPUT SELECT" and then, push to the SET button to choose TUNER or LINE.

 You can also select "LINE" using the CH ▲/▼ buttons. The numbers will change in the order shown.



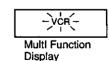
 When LINE is selected, "L" is displayed in the Multi Function Display.

Watching Another TV Program

- 1 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.
 - If indicator doesn't light, push VCR/TV to turn it on.



----- MENU -----

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

---- SET UP VCR -----

REPEAT PLAY : ON BEEPER : ON INPUT SELECT : LINE

PUSH SELECT A/ PUSH SET KEY PUSH MENU KEY

PUSH SELECT A/ PUSH SET KEY PUSH MENU KEY

- 2 Use 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.

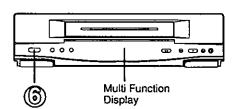


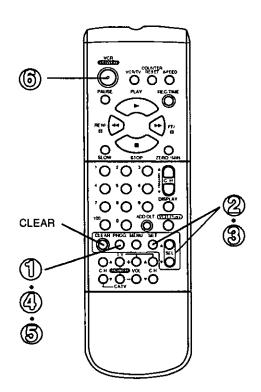
Timer Recording

Your VCR can be set up to do a recording while you are away or otherwise occupied. Up to 8 programs can be placed in memory. You can choose to record one time, daily, or weekly.

Check list before you begin.

- All connections are made.
 - (See pages 6~9.)
- TV and VCR are plugged in and turned on.
- ☐ VCR/TV selector is set to "VCR."
- Clock is set to correct time.
- Record tab in place. (See page 5.)





Important notes when using a DSS receiver

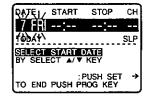
- When recording programs via a DSS receiver, the DSS receiver must be left on.
- When recording programs via an antenna or cable, the DSS receiver must be turned off.



PROG

Push PROG to display the program screen.

 If a program is already in memory, push the SELECT Up/Down and SET buttons to select an unused program number.

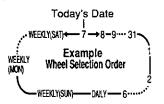






Push SELECT UP/ DOWN to select the DATE, and then push to SET to enter it.





Daily and Weekly Timer Recording

If you want the program to be recorded daily (Mon thru Fri), enter DAILY in place of the DATE in step 2. If you want the recording to be on a weekly basis, enter WEEKLY MON, TUE, etc..







Push SELECT UP/ DOWN and SET to set remaining items at right.

Remaining Items to be set:

- START time
- STOP time
- CH(annel) number, or LINE for outside source recording.
- Speed (SP, LP, SLP).

To Make Corrections

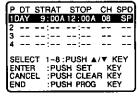
Repeatedly push the SET button to move forward, or the CLEAR button to move back to the desired item. Then, select and set continue with step 3.



PROG

Push PROG to end the program.

 If you want to enter more programs, select a blank program number with the SELECT Up/Down and SET and repeat steps 2 and 3.





PROG

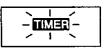
Push PROG to exit this mode.





Push POWER off to set the timer.

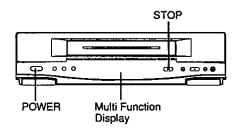
 When recording programs via a cable box, make sure the cable box is left on and tuned to the desired channel.

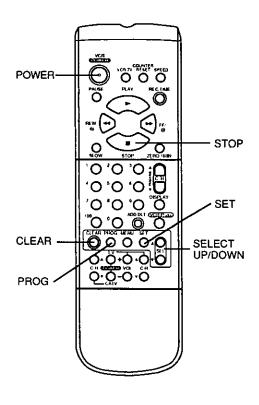


Multi Function Display



- If the cassette record tab is missing at the time the 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 the start time for a timer recording comes up during a normal recording or One Touch Recording (page 16), 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.
- If "PROGRAM IS INCOMPLETE" appears on-screen in step 4, check all entries and make necessary corrections .



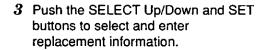


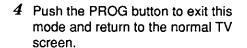
Cancel a Timer Recording: Recording is in progress

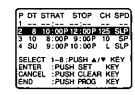
- 1 Push the POWER button to release the VCR from timer mode.
- 2 Push the STOP button within 10 seconds of pushing the POWER button to cancel the recording. The TIMER indicator goes out in the Multi Function Display.

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

- 1 Push the PROG button to display all currently set programs.
- 2 Push the SELECT Up/Down and SET buttons to select and enter the desired timer recording. (See page 18.)



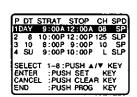


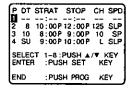




Review or Clear Program Contents: Recording is not in progress

- 1 Push the PROG button to display all currently set programs.
- 2 Push the SELECT Up/Down buttons to select the desired program number.
- 3 Push the CLEAR button to clear the program.
- 4 Push the PROG button to exit this mode and return to the normal TV screen.

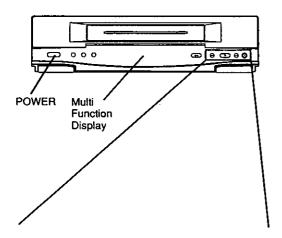


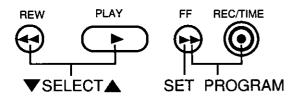




Timer Recording Using VCR Buttons

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





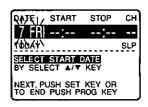
Hold down REC/TIME.

and

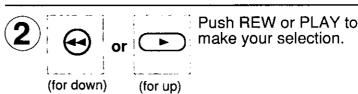


Push FF to enter the program mode.

- If the clock is not set, pushing these buttons will display the SET CLOCK screen. In this case, proceed with steps 2 and 3 to set the clock and then steps 2~6 to set a timer recording.
- Once the VCR is in the Program mode, the PLAY, REC, FF, and REW buttons on the VCR operate only as specified above.











Push FF to set and move on to the next item.

 Push SET (FF) repeatedly to move to a particular item for setting or correction.

Items to be Set:

- recording DATE
- START time
- STOP time
- · CH(annel), or LINE
- SPEED (SP, LP, SLP)

When the program is completed...









Push REC/TIME and FF to display program contents.

(at the same time)

To set the next program,

repeat steps 2, 3, and 4 before continuing with step 5.

5







Push REC/TIME and FF to exit this mode.

(at the same time)

6

Push POWER off to set the timer.

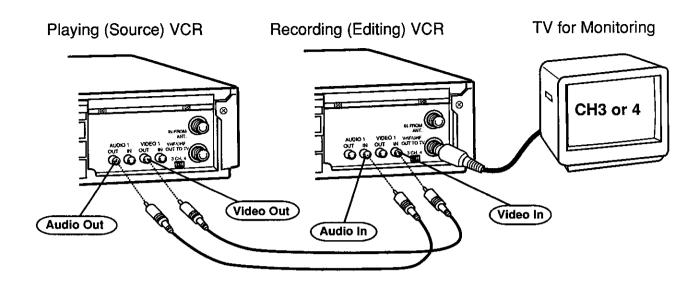


Multi Function Display

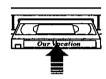
- It is not possible to clear a timer program using the VCR buttons. Please use the Remote Control.
- When recording programs via a cable box, make sure the cable box is left on and tuned to the desired channel.

Copying Your Tapes (Dubbing)

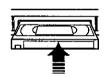
Connections you'll need to make.



Insert a pre-recorded tape into the Playing (Source) VCR.



Insert a blank tape with record tab into the Recording (Editing) VCR.



Select Input "LINE" on the Recording (Editing) VCR. (See "Selecting the Input Mode" on page 17.)



- Push REC and PLAY at the same time on Recording VCR. Push PAUSE immediately.
- **6** Push PAUSE on both VCRs (at the same time), to begin copying.

Edit Out Unwanted Parts

of the original recording by using the PAUSE button (on the Recording unit) while copying is in progress.

7 Push STOP on both VCRs to stop copying.

To Monitor the Re-Recording

- 1 Turn the TV on and select its VCR channel (CH3 or CH4) on the Recording VCR.
- 2 Set the VCR/TV selector on the Recording VCR to the "VCR" position.

Caution:

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

VCR Plus+ Set Up

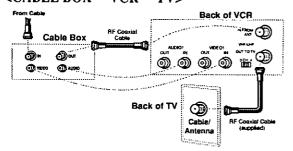
In order for your VCR to do a VCR Plus+ recording (see top of page 23 for explanation of VCR Plus+), or a timer recording of cable stations, some setup is required. At first, find the antenna or cable connection that matches yours. Then, follow the instructions below your connection.

Choose your Connection Type

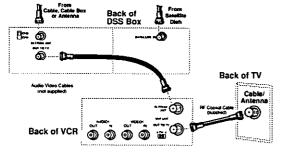
(Then, follow the instructions under the diagram.)

Connection Type A

<CABLE BOX → VCR → TV>



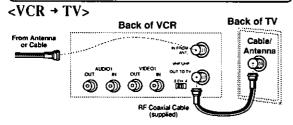
<ANT/CABLE BOX → DSS BOX → VCR → TV>



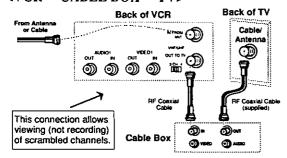
If your system looks like this diagram, do the following.

- 1. Complete the "Cable Box Set Up" section at right.
- 2. Skip page 23 and go directly to page 24 for VCR Plus+ Programming.

Connection Type B



<VCR → CABLE BOX → TV>



If your system looks like one of these, do the following.

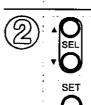
- 1. Skip the "Cable Box Set Up" section at right and turn to page 23.

 2. Complete the "VCR Plus+ Channel Set
- Up" section on page 23.
 3. Turn to page 24 for VCR Plus+ Programming.

Cable Box Set Up For connection A (see left) only



Push MENU to display the menu.



Push SELECT UP/ DOWN and SET to select SET UP CHANNEL.

----- MENU -----SET UP VCR SET UP CHANNEL ID TOMA/ LANGUE: ENGL I SH PUSH SELECT A/ PUSH SET KEY PUSH MENU KEY END



SET

Push SELECT UP/ DOWN and SET to select CABLE/ DSS BOX SET UP.

--- SET UP CHANNEL --ANTENNA SYSTEM : CATV CABLE/DSS BOX SET UP VCR Plus+ CH SET UP PUSH SELECT A/ PUSH SET KEY PUSH MENU KEY



Select YES if you are using a cable box and continue with step 5.

Select NO if you are not using a cable box. Then, push MENU twice and turn to page 23.

- CABLE/DSS BOX SET UP ARE YOU USING A CABLE BOX OR DSS RECEIVER?

SELECT SET END PUSH SELECT A/▼ PUSH SET KEY PUSH MENU KEY



Push SELECT UP/ DOWN and SET to select your cable box set up.

If you selected CABLE/ DSS BOX → VCR → TV, continue with step 6.
If not, push MENU twice and turn to page 23.

- CABLE/DSS BOX SET UP -SELECT YOUR CABLE BOX OR DSS RECEIVER SET UP. CABLE/DSS BOX-VCR-TV VCR-CABLE/DSS BOX-TV

PUSH SELECT A. PUSH SET KEY PUSH MENU KEY SET END





Push SELECT UP/ DOWN and SET to change the output channel number.

· Number shown is example only. You are sure to enter your cable box output channel number.

- CABLE/DSS BOX SET UP ENTER CABLE BOX OR DSS RECEIVER OUTPUT CHANNEL 01 PUSH SELECT A/▼ PUSH SET KEY PUSH MENU KEY SELECT SET

- If necessary, refer to your cable box manual.
- If you are using Audio/Video jack connection for your cable box, select and set "VIDEO OUT" as the output channel.



MENU

Push MENU to confirm your entry.

 This display appears for five seconds. (Channel shown is example only)

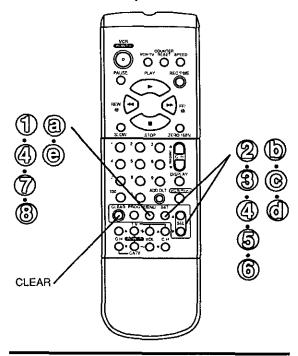
YOUR VCR IS RECEIVING THE OUTPUT OF CABLE BOX OR DSS RECEIVER CH 01



Push MENU twice to return to the normal screen.

Then, go directly to VCR Plus+ Programming on page 24.

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.



Channel Set Up Preparations

NOTE: Complete the steps on this page if your VCR hook-up resembles "B" on page 22.

Prepare a list like the example below.

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

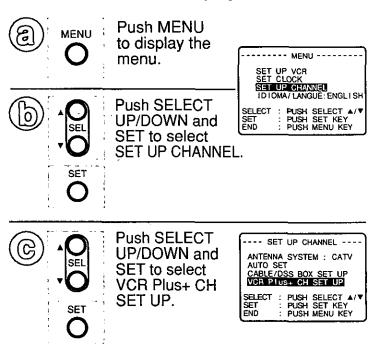
You will need the following to complete the list:

- 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.
- 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
НВО	33	15
Nickelodeon	38	20
CBS	04	04
FOX	11	
		///

VCR Plus+ Channel Set Up (For connection B on page 22 only)



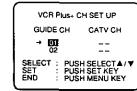
IMPORTANT NOTE:

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.



SET

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



Then, push SELECT UP/DOWN to change CATV or TV CH number.

Next, push SET

to enter CATV or TV CH number.

Now, push SELECT UP/DOWN 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.



MENU

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



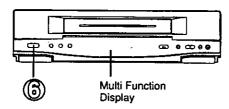
- Make your entries within 60 seconds or the VCR will leave this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

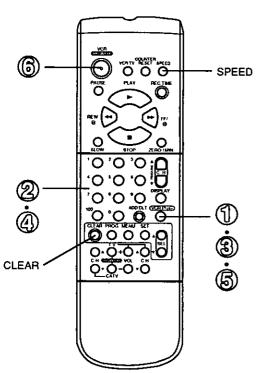


VCR Plus+ Programming

Before you begin, make sure...

- The clock is set.
- □ VCR Plus+ Set Up is complete (See pages 22, 23).





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 19 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.

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



Push VCR Plus+ to display the VCR Plus+ screen.

VCR Plus+ ENTER VCR PLUSCODE

TO END PUSH VCR Plus+



Push the Numbered Kevs to enter the PlusCode number.

· Refer to your local TV listings.

VCR Plus+ ENTER VCR PLUSCODE 123456

TO CORRECT PUSH CLEAR TO ENTER PUSH VCR Plus+

To make corrections

Push the CLEAR button repeatedly to delete the PlusCode number. Then, enter the correct number.



Push VCR Plus+ to lock in your program.



Push 1, 2 or 3 Key to select the program type.

VCR Plus+

1 ONE TIME 2 DAILY (MON-FRI) 3 WEEKLY

TO SELECT PUSH 1, 2 OR 3

TO END PUSH VCR Plus+

To change the recording speed: Press the SPEED button for SP, LP or SLP.

To cancel program contents: Press the CLEAR button.

DATE START STOP 8 SAT 10:30P 12:00P 125 TO CHANGE RECORD SPEED PUSH SPEED KEY TO CANCEL PUSH CLEAR TO END PUSH VCR Plus+

 If you use "A" connection on page 20, the channel shown in the on-screen display in this step will always be the cable box output channel number.



Push VCR Plus+ to complete the program.

TURN VCR OFF FOR TIMER RECORDING AND LEAVE CABLE BOX POWER ON

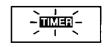
· If you're using a Cable Box, make sure that it is tuned to the desired channel and the power is left on for timer recording.

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





Push VCR POWER off to set the timer.



Multi Function Display

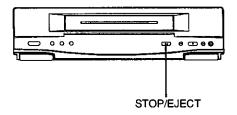


- For a list of publications that carry the PlusCode numbers in your area, call 1 800 258 4827.
- · You can obtain unlisted PlusCode numbers by calling 1 900 454 7587. Call costs approximately \$.95 per minute.
- · VCR PlusCodes can not be used to program the VCR to record DSS channels.
- Avoid overlapping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

Check list before you begin.

- All connections are made. (See pages 6~9.)
- ☐ VCR is Plugged in.
- TV is turned on and set to the VCR channel (CH3 or CH4).



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,



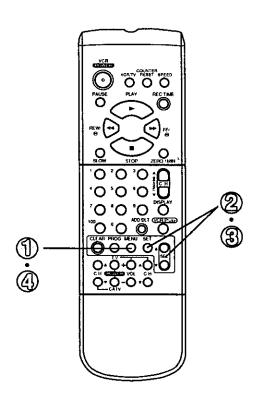
Hold down STOP/EJECT on the VCR for 7 seconds again during Stop, or Power OFF mode.

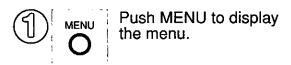
VCR LOCK OFF

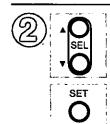
 VCR Lock mode is cancelled automatically after 24 hours when the clock is set.

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.

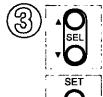




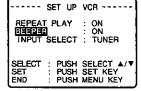


Push SELECT UP/ DOWN and SET to select "SET UP VCR".





Push SELECT UP/ DOWN to select "BEEPER", and then push SET to select "ON" or "OFF".





Push MENU twice to exit this screen.

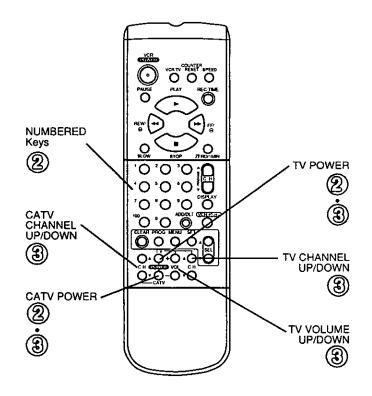


Multi-Brand Control Feature

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	
RCA	
GE	
Zenith	
Magnavox	
Sylvania	
Sharp	06, 07
Sony	
Toshiba	09
Sanyo	10
Fisher	10
JVC	11
Hitachi	12
Mitsubishi	13
Samsung	14
Gold Star	15, 16, 17

Archer		
Citizen		
Citizen	Archer	01, 29, 44, 88, 91
Citizen	Cableview4,	30, 42, 44, 52, 63, 85, 88
Diamond 01, 29, 44, 88, 91 Drake 37 Eagle 13, 20, 22, 26, 40, 58, 62, 98 Gastern 28 GC Brand 4, 30, 42, 44, 52, 63, 85, 88 Gemini 04, 85 General Electric 57 General Instruments 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Hamlin 14, 15, 28, 41, 97 Hitachi 31, 79 Jerrold 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Macom 31, 79 Massushita 16, 17 Movietime 32, 38, 40 Movietime 29, 32, 39, 42, 44, 88 NSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regel 14, 41 Regel 14, 41 Regentrick 27 SL Marx 32, 40, 42, 78, 94 Scientific Atlan	Citizen4.	. 30. 42. 44. 52. 63. 85. 88
Diamond 01, 29, 44, 88, 91 Drake 37 Eagle 13, 20, 22, 26, 40, 58, 62, 98 Gastern 28 GC Brand 4, 30, 42, 44, 52, 63, 85, 88 Gemini 04, 85 General Electric 57 General Instruments 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Hamlin 14, 15, 28, 41, 97 Hitachi 31, 79 Jerrold 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Macom 31, 79 Massushita 16, 17 Movietime 32, 38, 40 Movietime 29, 32, 39, 42, 44, 88 NSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regel 14, 41 Regel 14, 41 Regentrick 27 SL Marx 32, 40, 42, 78, 94 Scientific Atlan	Curtis	08, 09, 56, 61, 87, 90
Drake 37 Eagle 13, 20, 22, 26, 40, 58, 62, 98 Eastern 28 GC Brand 4, 30, 42, 44, 52, 63, 85, 81 Gemini 04, 85 General Electric 57 General Instruments 31, 79 Hamlin 14, 15, 28, 41, 97 Hitachi 31, 79 Jerrold 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Macom 31, 79 Magnavox 25, 26 Matsushita 16, 17 Movietime 32, 38, 40 Movietime 29, 32, 39, 42, 44, 88 NSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Sarmsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech		
Eagle		
Eastern	Fagle 13	20, 22, 26, 40, 58, 62, 98
GC Brand	Eastern	28
Gemini 04, 85 General Electric 57 General Instruments 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Hamlin 14, 15, 28, 41, 97 Hitachi 31, 79 Jerrold 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 Macom 31, 79 Magnavox 25, 26 Matsushita 16, 17 Movietime 32, 38, 40 Movietime 29, 32, 39, 42, 44, 88 NSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94	GC Brand 4.	30, 42, 44, 52, 63, 85, 88
General Instruments		
Manual	General Electric	57
Hamlin	General Instruments	
Hamlin	01, 02, 03, 04,	34, 55, 83, 85, 91, 93, 95
Hitachi	Hamlin	14, 15, 28, 41, 97
Macom 31, 79 Magnavox 25, 26 Matsushita 16, 17 Movietime 32, 38, 40 MSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Tescan 18, 19 Toocom 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Videoway 07, 23, 50	Hitachi	31. 79
Macom 31, 79 Magnavox 25, 26 Matsushita 16, 17 Movietime 32, 38, 40 MSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Tescan 18, 19 Toocom 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Videoway 07, 23, 50	Jerrold 01, 02, 03, 04,	34, 55, 83, 85, 91, 93, 95
Magnavox 25, 26 Matsushita 16, 17 Movietime 32, 38, 40 MSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 20 SL Marx 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Tesscan 19 Toshiba 10 Unika 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Videoway 07, 23, 50	Macom	31, 79
Matsushita 16, 17 Movietime 32, 38, 40 Movietime 29, 32, 39, 42, 44, 88 NSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Tescan 18, 19 Toshiba 30, 42, 44, 52, 63, 85 Unika 01, 33, 34, 42, 48, 49, 91 Toshiba 30, 42, 43, 44, 52, 63, 88 Videoway 07, 23, 50	Magnavox	25, 26
Movietime 32, 38, 40 Movietime 29, 32, 39, 42, 44, 88 NSC 32, 38, 40 Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Teleview 32, 40, 42, 78, 94 Tesscan 19 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toshiba 30, 42, 44, 52, 63, 88 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Videoway 07, 23, 50	Matsushita	16, 17
NSC	Movietime	32, 38, 40
NSC	Movietime	29, 32, 39, 42, 44, 88
Oak 46 Panasonic 16, 17 Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 00, 33, 34, 42, 48, 49, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	NSC	32, 38, 40
Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toschiba 36 Unika 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50		
Philips 13, 20, 23, 24, 96 Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toschiba 36 Unika 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Panasonic	16, 17
Pioneer 05, 06, 78 Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toschiba 36 Unika 01, 33, 34, 42, 48, 49, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Philips	
Pulser 4, 30, 42, 44, 52, 63, 85, 88 RCA 16, 17 Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toschiba 36 Unika 01, 33, 34, 42, 48, 49, 91 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Videoway 07, 23, 50	Pioneer	05, 06, 78
Realistic 44, 88 Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toshiba 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Pulser4	, 30, 42, 44, 52, 63, 85, 88
Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toshiba 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	RCA	16, 17
Regal 14, 41 Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toshiba 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Realistic	44, 88
Regency 28 Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Toshiba 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Regal	14, 41
Rembrandt 29, 32, 39, 42, 44, 88 Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Regency	28
Samsung 32, 40, 42, 78, 94 Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Rembrandt	29, 32, 39, 42, 44, 88
Scientific Atlanta 08, 09, 56, 61, 87, 90 Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 77, 92 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Samsung	32, 40, 42, 78, 94
Sheritech 27 SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Scientific Atlanta	08, 09, 56, 61, 87, 90
SL Marx 32, 40, 42, 78, 94 Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50		
Sprucer 16, 17 Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	SL Marx	32, 40, 42, 78, 94
Stargate 32, 40, 42, 78, 94 Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 01, 29, 44, 88, 91 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Sprucer	
Stargate 4, 30, 42, 44, 52, 63, 85, 88 Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Stargate	32, 40, 42, 78, 94
Sylvania 19 Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Stargate4	. 30, 42, 44, 52, 63, 85, 88
Telecaption 77, 92 Teleview 32, 40, 42, 78, 94 Texscan 18, 19 Tocom 01, 33, 34, 42, 48, 49, 91 Toshiba 36 Unika 01, 29, 44, 88, 91 Universal 42, 43, 44, 52, 63, 88 Viewstar 13, 20, 22, 26, 40, 58, 62, 98 Videoway 07, 23, 50	Sylvania	
Teleview	Telecaption	77. 92
Texscan	Teleview	32, 40, 42, 78, 94
Tocom	Texscan	18, 19
Toshiba	Tocom	01, 33, 34, 42, 48, 49, 91
Universal	Toshiba	36
Universal		
Viewstar	Universal	42, 43, 44, 52, 63, 88
Videoway07, 23, 50	Viewstar13	, 20, 22, 26, 40, 58, 62, 98
Zenith	Videoway	07. 23. 50
	Zenith	07, 23, 50



- Find your TV or Cable Box Brand Code Numbers.
 - · See left chart for TV or Cable Box Brand Code Numbers.

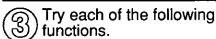


Hold down TV POWER or CATV POWER.

and

Use the NUMBERED keys to enter code number.

- · Enter your TV or Cable Box brand code number.
- 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 in step 3 with the first code, please try entering the next code.



 Some TV and Cable Box brands require you to turn on the power manually.

(TV)
POWER ON/OFF
CHANNEL UP/DOWN
VOLUME UP/DOWN

(Cable Box)
POWER ON/OFF
CHANNEL UP/DOWN

 Depending on your TV or Cable Box model, not all functions listed may be controlled by this remote.



- 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.

Before Requesting Service

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

Power	Correction
No power	Check that the Power Plug is completely inserted to an AC outlet. Check that the POWER button is set to on.
Recording & Playback	Correction
TV program can't be recorded	Check the connections between the VCR, the external antenna, and your TV. Check that the band selected matches your antenna or cable TV system. (P.11) Make sure that the record tab on the back of the cassette is still intact. (P.5)
Timer recording can't be performed	Set the recording start/stop times correctly. (P.18) Make sure that the POWER button is set to off. (P.18) 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.
There is no playback picture, or the playback picture is noisy or contains streaks	 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) Set the VCR/TV selector to "VCR". (P.14) Check that channel 3 or 4 of the TV is properly adjusted. Adjust the TRACKING control slowly in either direction. (P.14)
During special effects playback, the picture may contain some vertical jitter when using a TV which has an Automatic Vertical Hold Control	Set the TV's Vertical Hold Control to "MANUAL" and then adjust it.
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. 25)
Remote Control	Correction
VCR can't be remote controlled	 Aim the Remote Control directly at the remote sensor on the VCR. (Refer to Back Cover.) Avoid all obstacles which may interfere with the signal path. Inspect or replace the batteries (P.4). Make sure that VCR LOCK is set to off. (P. 25) Exposing the VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
Miscellaneous	Correction
You can't view programs normally on TV	Set the VCR/TV selector to "TV". (P.17)
Video cassette can't be inserted	Insert the cassette with the window side up and the record tab facing you.
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	Make sure the record tab on the back of the cassette is still intact. (P.5)
In the stop mode, the motor (CYLINDER) continues to rotate	To enable the quick play mechanism, the cylinder will rotate for about 5 minutes. The guide the procedure and the cylinder will rotate for about 5 minutes.
	The quick play mechanism reduces response time from stop to PLAY mode from PLAY to REWIND search mode.

Spanish Quick Use Guide/Guía para rápida consulta

Para fijar el idioma, canal y reloj





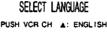
Encienda el televisor y la videograbadora.

El televisor debe estar fijado al mismo canal que ha seleccionado en la parte trasera de la videograbadora (canal 3 o 4).





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







0

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



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

Esta pantalla aparecerá en unos segundos.→

ESTA USANDO UNA CAJA DE TV POR CABLE O UN. RECEPTOR DSS?

> PULSE MENU : SI PULSE PROG. : NO

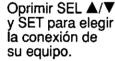




Oprimir MENU para elegir "SI" o PROG para "NO."

Si ha elegido "SI", continue al paso siguiente.
 Si ha elegido "NO", pase al paso 8.





-FIJAR TV POR CABLE/DSS-ELEGIR LA CONEXION DE SU CALA DE TV POR CABLE O RECEPTOR DSS GABLE/DSS-VORETV VCR-CABLE/DSS-TV

ELEGIR : GIRE LA RUEDA FIJAR : PULSE LA RUEDA TERMINAR : PULSE MENU



 Si es "CABLE/DSS-VCR-TV", continue al siguiente paso. Si no es, pase al paso 8.



6

Oprimir SEL ▲/▼ y SET para fijar el canal de salida de la caja de TV por cable FIJAR TV POR CABLE/DSS-INTRODUCIR EL CANAL DE SALIDA DE SU CAJA DE TV POR CABLE O RECEPTOR DSS



SEL

de TV por cable o el receptor

DSS (el canal sintonizado en el televisor para ver la emision de la

televisor para ver la emision de la caja de TV por cable o receptor DSS).

 Si ud. está usando los terminales de audio/video para la conexión de la caja de TV por cable, elija y fije a "SALIDA DE VIDEO" para el canal de salida.



Encienda la caja de TV por cable y fije la caja de TV por cable al canal PBS de su zona.

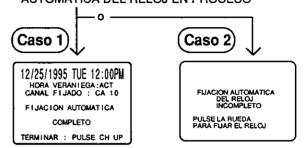




Oprimir CH Apara iniciar la fijación automática de los canales.

FIJACION AUTO. (CA/RELOJ)
CONECTE EL CABLE DE LA
ANTENA Y SI ESTA USANDO
UNA CAJA DE TV POR CABLE
SINTONICE AL CANAL PBS
DE SU LOCAL LUEGO...
POR FAVOR OPRIMIR CH UP

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





Comprobar si la hora está fijada correctamente y luego oprimir CH ▲ para terminar la fijación.

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:

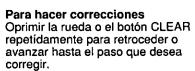
- I Tome nota del canal que está fijado en la pantalla y salga desde este modo oprimiendo el botón CH .
- 2 Anule este canal desde los canales memorizados en la combinación de VCR/TV.
- 3 Oprima el botón MENU para que aparezca la pantalla del MENU.
- 4 Use la rueda para elegir "FIJAR RELOJ" y luego para elegir "AUTO MATICO."
 - Si ud. esta usando una caja de TV por cable y tiene muchos canales PBS, sintonize la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez.



Si aparece la pantalla anterior, la fijación automática del reloj no es disponible en su zona. Por favor fije la hora del reloj manualmente.

Fijación manual del reloj

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



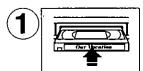
3 Oprimir MENU dos veces para iniciar a funcionar el reloj y salir desde este modo.





PARA CAMBIAR PULSE SET O CLEAR PARA INICIAR PULSE MENU

Operaciones básicas para la reproducción



Introducir una cinta

La videograbadora se enciende automáticamente.



Esta indicación aparece en la pantalla multifuncional.



Oprimir PLAY para comenzar a reproducir.

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

(Videograbadora o Control Remoto)





Oprimir REW o FF para localizar rápidamente una escena.

(Videograbadora o Control Remoto)

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





Oprimir STOP para parar la reproducción.

(Videograbadora o Control Remoto)

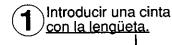


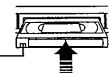


Oprimir STOP/EJECT para expulsar la cinta.

Este botón se encuentra solamente en la videograbadora.

Operaciones básicas para la grabación





 La videograbadora se enciende automáticamente.





Oprimir CH ▲/▼ para elegir el canal.

PARADA **CA 02**

U oprimir CHANNEL ▲/▼ en la videograbadora.

Para grabar desde una fuente externa, oprimir CH ▲/▼ para elegir "LINEA".





Oprimir SPEED para cambiar la velocidad de la

cinta.

SLP

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





Oprimir REC/TIME con el control remoto para <u>empezar a grabar.</u>

U oprimir PLAY y REC/TIME en la videograbadora.

Grabación de un toque (OTR)

La videograbadora termina la grabación a una hora programada.

Oprima sucesivamente REC/TIME para fijar el tiempo de la grabación. Cada presión cambiará la hora de parada como demuestra al siguiente.

> Grabación normal → 0:30 → 1:00 4:00 ← -- 3:00 ← -- 2:00 ← -- 1:30 ←

· La indicación TIMER aparece en la pantalla multifuncional.





Oprimir STOP para parar la grabación.

U oprimir STOP en la videograbadora.

- Si mantiene oprimiendo el botón de CH A/V aumentará la velocidad del cambio del canal.
- Oprimir PAUSE para hacer una pausa en la grabación en progreso.

Spanish Quick Use Guide/Guía para rápida consulta

Programación fácil para la grabación con temporizador



Oprimir PROG para que aparezca la pantalla de la programación.

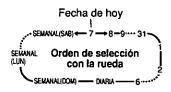


Si ya existe una programación, elija usando la rueda un número sin programación.





Oprimir SEL ▲/▼ y SET para elegir y fijar la fecha.



Grabación diaria y semanal

Si ud. desea programar una grabación diaria (lunes a viernes), elija DIARIO en vez de la fecha en el paso 2. Si desea una grabación semanal, elija SEMANAL LUN, MAR, etc.







Oprimir SEL ▲/▼ y SET para elegir y fijar las fijaciones que sobran.

Fijaciones:

- Hora de inicio
- · Hora de parada
- Canal o LINEA para una fuente externa.
- Velecidad de la cinta (SP, LP, SLP).

Para hacer correcciones

SET

Oprimir la rueda sucesivamente para avanzar u oprimir CLEAR para retroceder hasta el paso que desea corregir.





Oprimir PROG para terminar la programación.



 Si desea hacer más programaciones, elija un número de programa en blanco con la rueda y repita los paso 2 y 3.





Oprimir PROG para salir desde este modo.





Oprimir POWER y apaque el aparato para la grabación con temporizador.

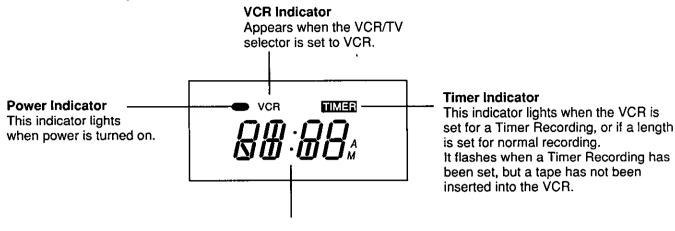


Si la fuente de la grabación es una caja de TV por cable, asegúrese de que la caja de TV por cable esté encendido y esté sintonizado al canal que desea grabar.



Index of Controls

Multi Function Display



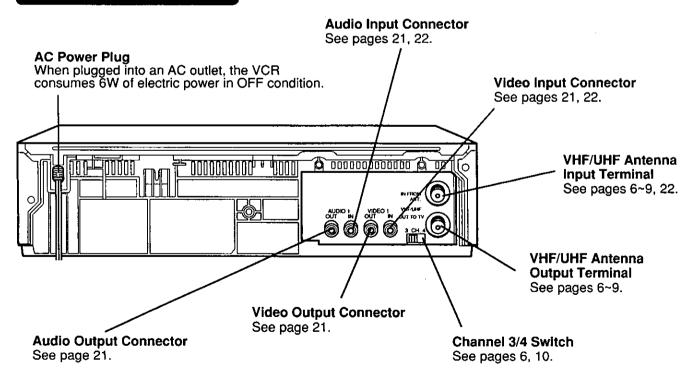
Clock/Status/Channel Display

Displays the current time.

Briefly displays VCR status when function button is pressed.

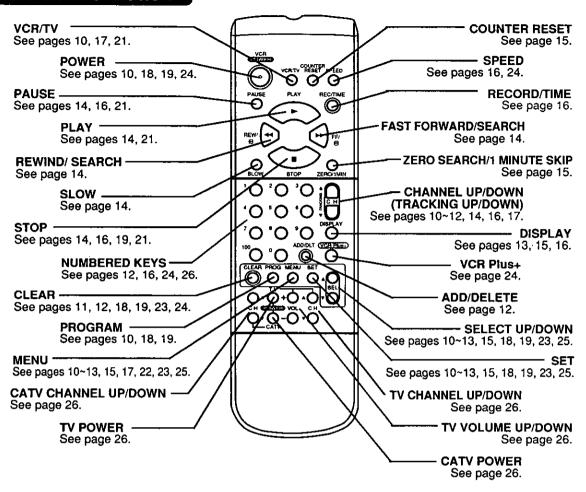
Also, briefly displays the channel number selected or "L" when channel button is pressed or select a line input.

Rear View of the VCR

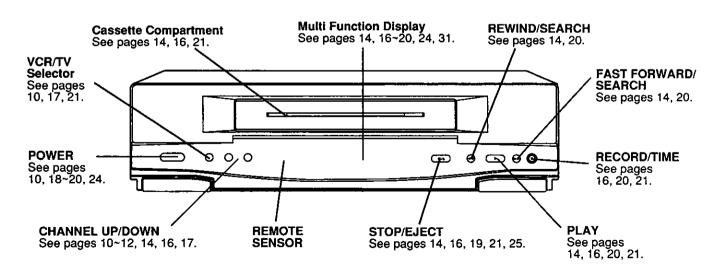


Index of Controls

Remote Control Button



Front View of the VCR



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

