# m-53-04-431

# VIDEO CASSETTE RECORDER

Return Your Card Return Your Card Registration Card Registration Card Beegistration Card Days. Narranty Registration Days. Warranty Inside. See Why Inside.

MAGNANCK Cartering and Carteri

MODEL VRS960

Ń



# **Return your Warranty Registration Card today to ensure** you receive all the benefits you're entitled to.

Once your MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these Important benefits.

# Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your MAGNAVOX warranty.

**Owner** Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

# Model Registration

**Returning your Warranty Registration** Card right away guarantees you'll

# MAGNAVOX Smart. Very smart.



receive all the information, offers, and bonuses which you qualify for as the owner of your model.

### KNOW THESE SAFETY SYMBOLS. CAUTION 4 RISK OF ELECTRIC SHOCK CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

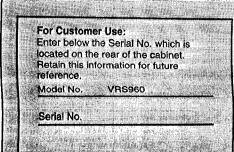
This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

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

**ATTENTION: Pour éviter les chocs** électrques, introduire la lame la plus large de la fiche dams la borne correspondante de la prise et pousser jussssqu'au fond.



Congratulations on your purchase --and welcome to the "family!"

### **Dear MAGNAVOX product owner:**

Thank you for your confidence in MAGNAVOX. You've selected one of the bestbuilt, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information, offers, and bonuses which you qualify for, plus easy access to accessories from our convenient home shopping network.

And most important of all, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome-and thanks for investing in a MAGNAVOX product.

Sincerely,

Ingl 4 Day

Donald F. Johnstone President and Chief Executive Officer

P.S. Remember, to get the most from your MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

an la Maria (a. Caratara)

# 3— Welcome

Hello. We are pleased to introduce you to one of the most popular entertainment products available today.

**Before you do anything else,** record the Serial and Model Numbers in the spaces provided either on page two (to the right of the president's signature) or on the Warranty page at the back of this owner's manual. These numbers are located on the back of the VCR. Keep this manual and numbers near your VCR for quick reference or in case you should have to call for help.

Done? Good. You now have a legal description of your new VCR (Video Cassette Recorder).

This owner's manual is designed for you. To help you, keep certain things in mind. One, this book is divided into four sections. If you turn to page 4, you'll see that those sections are "Getting Started," "Describing Your Controls," "Doing More," and "Information You May Need."

The "Getting Started" section guides you through what you need to know to get your VCR up and running.

The "Describing Your Controls" section gives you an overview of on-screen displays, your remote control, and your VCR. (You can even look at this section first, or any time you want.) The "Doing More" section takes you through the more advanced features of your VCR, building on what you've done in "Getting Started." The features in this section are done only as you need them.

*The "Information You May Need" section* is there if you should need the information. But you may never have reason to look there.

Go take a look, then come back. No hurry.

Taken a look? Good.

**Remember,** at the very least, read all the numbered steps for each feature you want to do before you do that feature. Once you have done this, you may find as you do the feature, you will only need to pay attention to the on-screen displays. But reading the instructions will tell you what to expect. It is your road map to the adventure of traveling through your VCR.

There is also a *Quick Use Guide* – a separate card packed with your VCR. It can be used by those already familiar with VCRs. It should be kept near the VCR for quick reference once the VCR is hooked up and you are familiar with it.

Never be afraid to take the next step. You can't hurt your VCR. Certainly not by trying out any of the features. The features, like this manual, were made with you in mind.

So, Read on ... and Relax!

# Safety Precautions

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

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

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS (Video Home System) equipment.

### **CAUTION:**

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

### PHILIPS CONSUMER ELECTRONICS COMPANY

recommends that you use only cassette tapes which have been tested and inspected for use in 2, 4, 6 and 8 hour video cassette recorders, and which are labeled with the **WHS** mark. The use of tapes which have not been tested and inspected for 2, 4, 6 and 8 hour recorders may result in poor picture quality and excess deposits on the VIDEO head, which may not be covered by the warranty if damage occurs.

### ATTENTION:

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

### Note to CATV System Installer:

This reminder is provided to call the CATV (Cable TV) System installer's attention to Article 820-40 of the NEC 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.

Copyright © 1994 Philips Consumer Electronics Company. All rights reserved.

# 4— Table of Contents

Getting Started	
Welcome	
Table of Contents	
Before using your VCR	
Hook up your VCR	6
Turn on your VCR	
Play a tape	8
A word about the remote	
Record on a tape	
Set the clock	10
Describing Your Controls	
On-screen displays (OSD)	11
Remote control	12-13
VCR front panel	14
VCR display panel	
VCR rear panel	
Doing More	
Record one channel/See another	17
Timer recording	
One touch recording (OTR)	20
Re-Recording (tape duplication)	
tape operation	22-23
Channel memory review	23
Special playback features	
MTS (Multi-Channel Television Sound) broadcast stereo system	26-27
VHS Hi-Fi stereo sound system	
Special VCR features	30
Daylight savings time	
Language select	31
Information You May Need	
Maintenance	
Notes on operations	
Other hook-ups you can try	
Before requesting service	
Specifications	
Warranty	
Glossary	
Index	
Accessories	

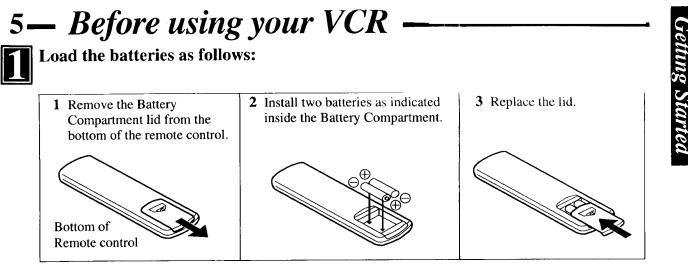
والمقادمات والمعين

# — Features

- HQ (High Quality) System
- Frequency Synthesizer Tuning with Auto Set Feature
- On Screen Displays (OSD) in either English or Spanish
- Display Panel
- Auto Tracking
- One-Touch Recording (OTR)
- Unattended (Timer) Recording

- Special Effects Playback Fast Search Still Variable Slow Frame Advance
- Wireless Remote control
- Auto Operation Functions
- Daylight Savings Time

Copyright © 1994 Philips Consumer Electronics Company. All rights reserved.



### **Battery Replacement Caution**

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

This remote control and batteries are supplied accessories. Please check to make sure they are included. Also, check the Accessories page to see what other accessories are included.

### Types of video cassette and tape speeds

The chart below shows the recording/playback time for 3 different types of video cassette (T160, T120, T60). Each type of cassette can be played and recorded at any one of the 3 tape speeds: **SP** (Standard Play), **LP** (Long Play), **SLP** (Super Long Play).

In this VCR, use only tapes with the **WHS** mark. The chart below shows the recording/playback time for 3 types of tapes (T160, T120, T60).

Tape Speed Selector Position		Maximum Record/Playback Time		Time
Γ	Type of Tapes	T160	T120	T60
SP (Standard Play)		2 Hours 40 Minutes	2 Hours	1 Hour
LP (Long Play)		5 Hours 20 Minutes	4 Hours	2 Hours
SLP (Super Long P	lay)	8 Hours	6 Hours	3 Hours

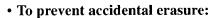
\* During Playback, the VCR selects the tape speed, SP, LP, or SLP automatically. You can change recording speed for a tape using the Tape SPEED button (see page 14).

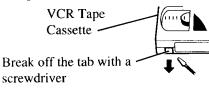
• Make sure any light adhesive stick-on notes are removed from the Video Cassette Tape before inserting Tape into the VCR. This type of "removable" label can jam the mechanical operation of the VCR.

# 3

### Erase protection

Cassettes have a Record Tab to ensure that recordings are not accidentally erased.





# 4

### **Please Read and Relax**

Please read all the numbered steps for each feature *before* attempting that feature. For example, read all 12 steps for Timer recording (pages 18-19) before doing a Timer recording.

## • To record again:

Cover the hole with cellophane tape

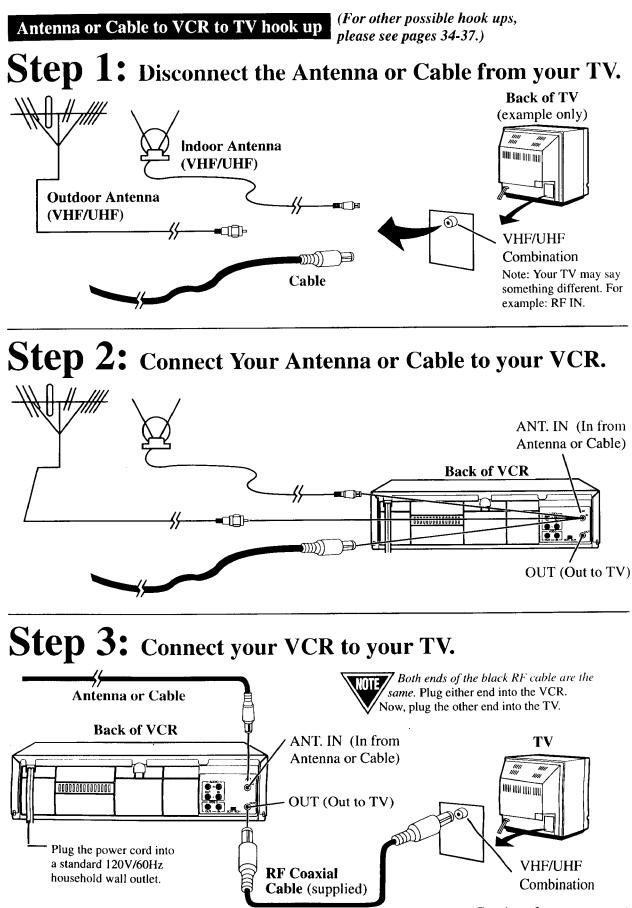




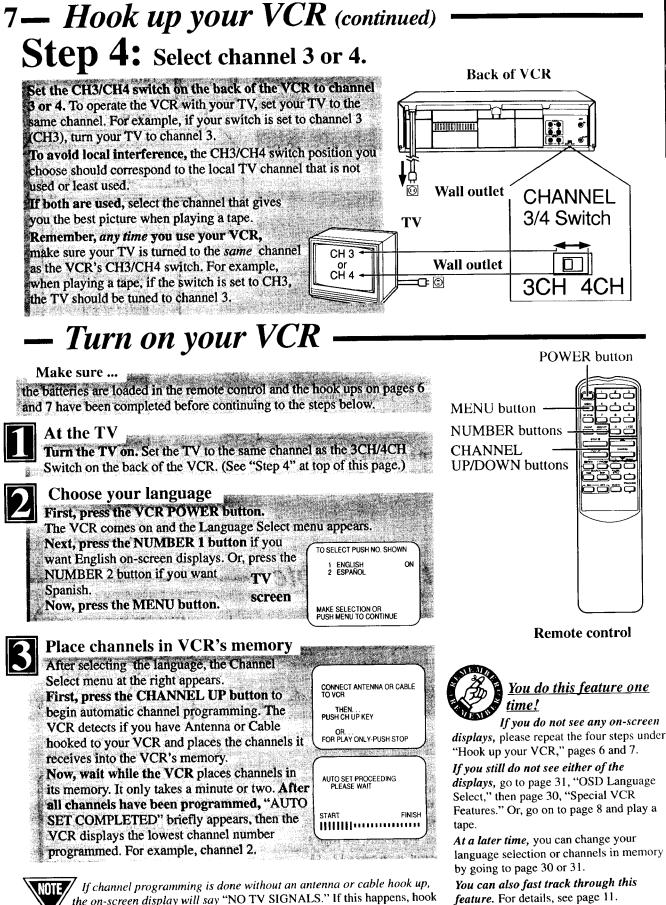
*You cannot hurt your VCR* by trying any of the features in this book. Even if you don't get it right the first time, the VCR will not be harmed.

Ready to begin hooking up your VCR? Go to the next page.

# 6— Hook up your VCR



(Continued on next page.)

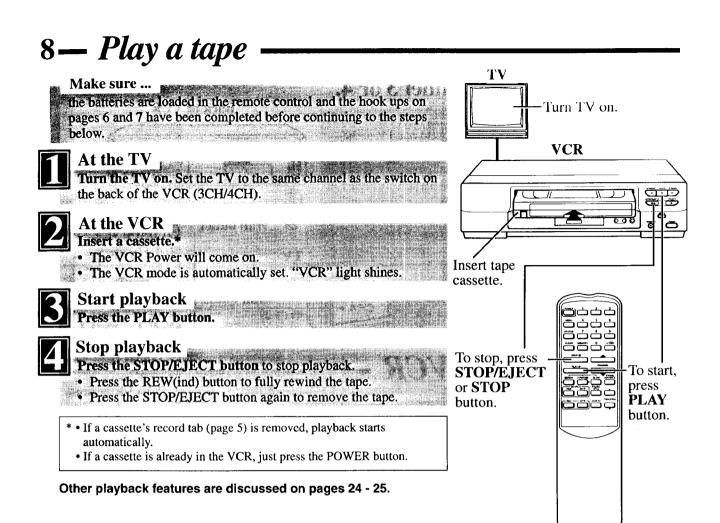


the on-screen display will say "NO TV SIGNALS." If this happens, hook up an antenna or cable and try step 3 again.

To confirm language selection, press the MENU button.

To confirm channel selection, press the CHANNEL UP button.

Ready to play a tape? Go to the next page. etting Starte



### **Remote control**

# — A word about the remote

### Using the 100 button

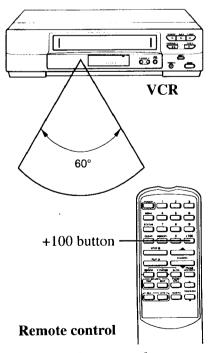
To record or watch channels 100 to 125 with the NUMBER buttons, first press the NUMBER 100 button, then enter the remaining two numbers. For example, for channel 105, press NUMBER buttons 100, 0, 5. For channel 100, press NUMBER button 100, 0, 0.



Point the remote control at the VCR's remote sensor, within the angle shown in the illustration at right.

**Do not put objects between** the remote control and the VCR. **Keep fresh batteries** loaded in the remote. For details, see page 5.

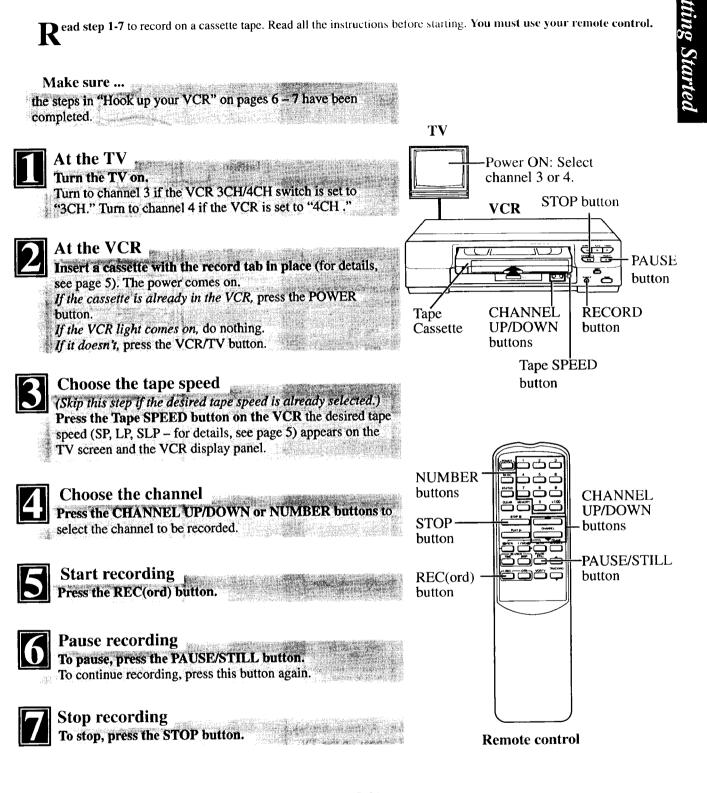
More information about the remote control is on pages 12 - 13.



Ready to record on a tape? Go to the next page.

# 9— Record on a tape

Read step 1-7 to record on a cassette tape. Read all the instructions before starting. You must use your remote control.



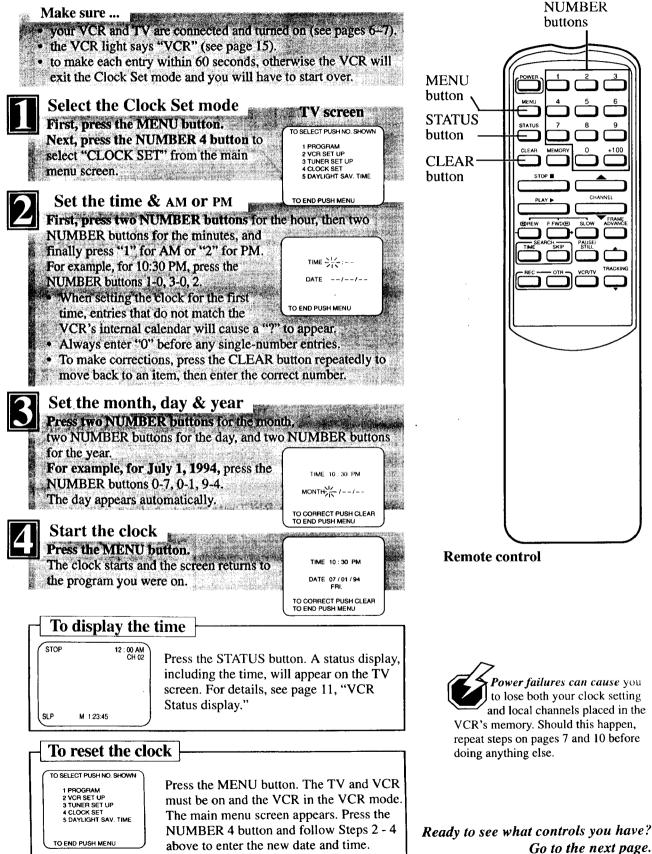


• Other recording options are available. See pages 17-21. If the REC(ord) button is pressed while a cassette tape without its record tab is in the VCR, the tape will be ejected and "PROTECTED CASSETTE CANNOT RECORD" will appear on the TV screen.

> Ready to set the clock? Go to the next page.

# 10— Set the clock

**)** ead step 1-4 to set your VCR to the present day and time. Once set, your VCR (Video Cassette Recorder) will maintain the time in its internal clock, and will make timer recording possible. You must use your remote control.



TO END PUSH MENU

# 11 — On-screen displays (OSD)

### **OSD Main menu screen**

Press the MENU button on the remote to display the main menu screen. Then, press the NUMBER button on the remote control for the desired feature displayed on the menu. When you select a feature, turn to the section in this manual and read the accompanying instructions.

### VCR Status display

- 1. Press the MENU button.
- 2. Next, press the 2 button to select "VCR SET UP."
- 3. Then, press the 3 button to select "ON SCREEN MODE."
- 4. Now, press the 1, 2, or 3 button to select "ON SCREEN ON,"
- "COUNTER ONLY" or "ON SCREEN OFF."

"ON" appears beside the selection made.

### POSITION

ON-SCREEN ON: Whenever a function button (Stop, FF, etc.) is pressed, a 5 second VCR Status Display appears.

COUNTER ONLY: Whenever a function button (Stop, FF, etc.) is pressed, a 5 second VCR Status Display appears.

After 5 seconds, the counter information will remain on the screen. To remove, press the STATUS button.

ON-SCREEN OFF: In this position, there will be no indication when normal functions are pressed.

- You may display the VCR Status any time by pressing the STATUS button. Status display remains on for 5 seconds. To remove press this button again.
- Channels (when tuned) are displayed as an overlay for a few seconds.

### Fast Track through "Turn on your VCR"

1. If the record tab on a cassette (see page 5 for details) is removed, playback starts automatically.

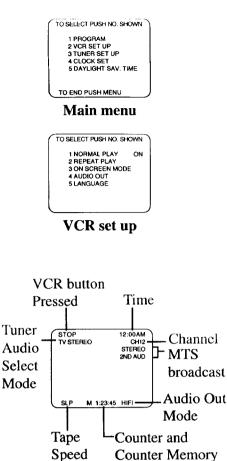
0r

- 1. To skip Step 2 on page 7, press the MENU button. All on-screen displays will be in English.
- 2. To skip Step 3 on page 7, press the STOP button. You can now play a pre-recorded tape.

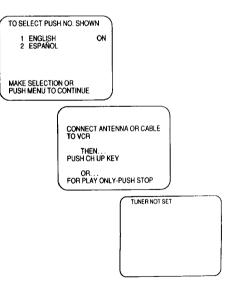
"TUNER NOT SET" briefly appears on the screen.

### Blank tape or Channel indication

If a blank section of tape is encountered in the Play mode or the channel you select has no broadcast, the 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.



VCR Status display

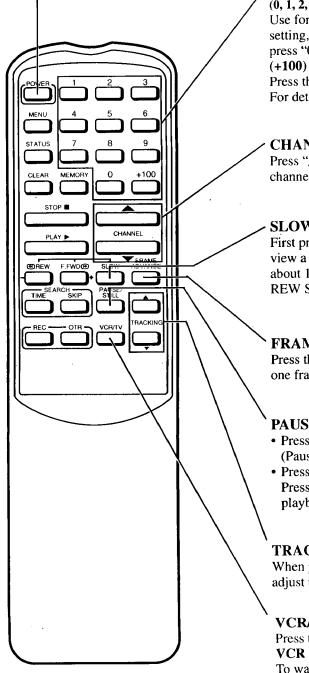


"Fast Track" displays

# 12— Remote control

### **POWER button**

Press to turn VCR power ON or OFF. Also, to set the VCR for unattended timer recording.



### **NUMBER buttons**

(0, 1, 2, 3, 4, 5, 6, 7, 8 and 9)

Use for channel selection, on-screen menu selection, clock setting, program setting, etc. For selecting channels 1 to 9, first press "0" button and then press "1" to "9."

Press this button first when selecting channels 100 and higher. For details, see page 8.

### **CHANNEL UP/DOWN buttons**

Press " $\triangle$ " or " $\bigtriangledown$ " to scan up or down through the VCR's channels. Release at desired channel.

### SLOW button

First press the SLOW button during SP, LP, or SLP playback to view a slow-motion picture. The speed can be varied from about 1/6 to about 1/30 of normal speed with the F.FWD or REW SLOW button. For details, see page 24.

### **FRAME ADVANCE button**

Press this button while in the Still mode to advance the picture one frame at a time (Frame Advance). For details, see page 24.

### **PAUSE/STILL** button

- · Press once to temporarily stop the tape during recording (Pause).
- Press once to freeze the tape picture during playback (Still). Press PLAY button when you want to resume normal playback or recording. For details, see page 24.

### **TRACKING UP/DOWN** buttons

When playing a tape, press TRACKING " $\triangle$ " or " $\lor$ " button to adjust the tracking. For details, see page 25.

### VCR/TV button

Press to select the signal source that your TV receives. VCR position (VCR light on the display panel: ON) To watch a tape, monitor a recording, or watch a TV broadcast selected with the VCR's channel selector. TV position (VCR light on the display panel: OFF) To watch TV or to watch one program while recording another.

For details, see page 17.

# 13— Remote control (continued)

### MENU button -

Press to call up the on-screen menu display. For details, see page 11.

### STATUS button

Press this button to display or clear the counter, time, function, and channel number. For details, see pages 11 and 23.

### **MEMORY** button

Press to memorize the tape position at which the tape counter was reset to "0:00:00." For details, see page 23.

### **CLEAR** button

- To erase incorrect or unwanted data in on-screen menu operation.
- To reset the tape counter. "0:00:00" will appear on the TV screen.

For details, see page 23.

### STOP button

Press to stop the tape.

### PLAY button

- Press to play back a tape. For details, see page 8.
- Press to release the Search and Still modes and return to playback. For details, see page 24.

### **REW(ind) button**

Press to rewind the tape at high speed. Also, during playback, press this button to view the picture in rapid reverse. For details, see page 24.

### F.FWD (Fast Forward) button

To move the tape forward at high speed. Also, during playback, press this button for rapid forward visual search. For details, see page 24.

### **TIME SEARCH button**

This button can make search easier by allowing you to skip back or ahead on a tape. Press this button and select desired counter number with NUMBER buttons. For details, see page 22.

### **SKIP SEARCH button**

Press during playback mode to skip forward 30 seconds on tape counter. Press up to 6 times consecutively to skip up to 3 minutes on the tape counter. VCR will automatically return to Playback mode.

### **REC(ord) button**

Press to start recording. For details, see page 9.

# escribing Your Contro

CHANNEL

TRACKING

SLOW

PAUSI

VCB/T

(THREW

### ONE TOUCH RECORDING (OTR) button

Select the channel and press this button to start an immediate recording 30 minutes to 4 hours long. Each press delays the shut-off time by 30 minutes. Power shut off is automatic. For details, see page 20.

# 14— VCR front panel

F.FWD (Fast Forward) button Wireless remote sensor Press to move the tape forward rapidly. Also, Receives the signal from the (wireless) during playback, press this button for rapid remote control. For details, see page 8. forward visual search. For details, see page 24. PLAY button -• Press to play back a tape. For details, see page 8. • Press to release the Search and Still modes and return to playback. For details, see page 24. **REWIND button** Press to rewind tapes. Also, during playback, press this button for reverse visual search. For details, see page 24. **CHANNEL UP/DOWN buttons** Press to scan up or down through the VCR's **Cassette compartment** channels. Where the video cassette is You may also use these buttons to adjust the inserted. For details, see page 8. tracking control. For details, see page 25. < ∎/≙ (00) TAPE  $\bigcirc \bigcirc$  $\bigcirc$ 12:00 \*\*  $\odot$ VCR display panel **STOP/EJECT** button Where various information on VCR operation Press to stop the tape. Press is displayed. For details, see page 15. again after the tape has stopped to eject the cassette. **RECORD** button · Press to start recording. **POWER button -TAPE SPEED button** Press to turn the VCR (Video Cassette Recorder) Press to set the recording speed except for ON or OFF. To set the VCR for unattended timer recording. For details, see page 5. recordings after timer settings have been completed.

VCR/TV button ·

Press to select the signal source that your TV receives.

VCR position (VCR light on the display panel: ON)

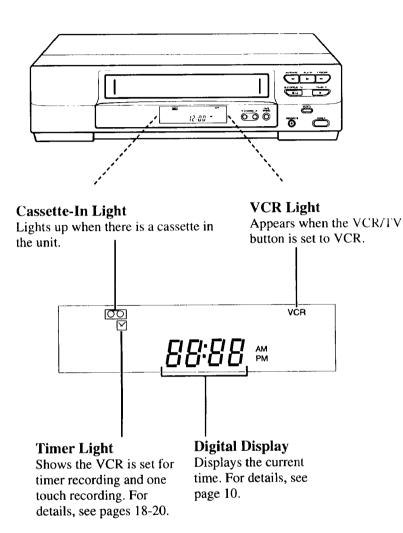
To watch a tape, monitor a recording, or watch a TV broadcast selected with the VCR's channel selector.

TV position (VCR light on the display panel: OFF)

To watch TV or to watch one program while recording another. For details, see page 17.

PAUSE button -

Press to temporarily stop the tape during recording or to view a still picture during playback. For details, see page 24.



# 16 — VCR rear panel

1

1

Power Cord	ANT(enna) IN(put) jack (in from Antenna) Hook up your antenna or cable to this terminal. For details, see page 6.
[AC (Alternating Current)] Plug into a standard 120V/60Hz household wall outlet. For details, see pages 6 and 7.	AUDIO IN(put) jack For hook up to the AUDIO OUT(put) jack of a portable video camera, another VCR, or another audio source. For details, see page 21.
	AUDIO OUT(put) jack For hook up to the AUDIO IN(put) jack on a TV, another VCR, or an audio tape recorder. For details, see pages 21 and 26.
VIDEO OUT(put) jack – For hook up to the VIDEO IN VCR. For details, see pages 2	
<b>VIDEO IN(put) jack</b> – For hook up to the VIDEO a portable video camera. Fo	OUT(put) jack from another VCR or or details, see page 21.
broadcasting in you	4 (whichever is not used for regular TV ar area) to use your TV as a screen for your VCR. VCR" on pages 6 and 7.

OUT(put) jack (out to TV set) \_\_\_\_\_\_ Use the supplied cable to hook up this terminal to the VHF/UHF input jack on your TV set. For details, see page 6.

# 17— Record one channel/See another



**R** ead steps 1–4 to record one channel while viewing another. Please read all the instructions.



Start a recording 📠 Start a recording as described on page 9.



Set the VCR/TV button Press the VCR/TV button to select the TV mode. The VCR light and channel being recorded disappear.

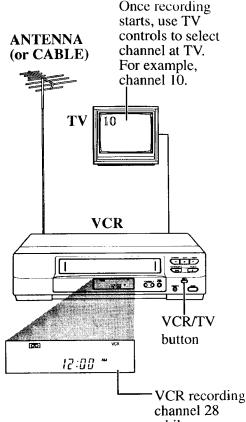


Select the channel at the TV for viewing Select the channel to be viewed at the TV, using the channel controls on the TV or TV remote control. For example, while the VCR is recording channel 28, watch channel 10.

The channel selected with the TV channel controls appears on the TV screen. The channel selected with the VCR channel control is recorded on the tape.

To return to the channel being recorded First, using the channel controls on the TV or TV remote control, return the TV to either channel 3 or 4 (please see page 7, "Hook up your VCR").

Now, press the VCR/TV button to view again the channel being recorded. (If a blue screen appears on your TV instead of a channel, see "Choose Input Source" below.)





while you watch channel 10 on the TV.

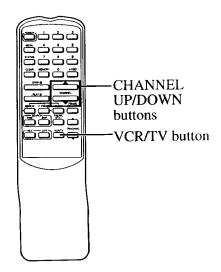
### **Choose input source**

(If a blue screen appears on your TV instead of a channel.) Press the VCR CHANNEL UP/DOWN buttons.

\* If you are not receiving channels, please repeat the steps on page 6 – 7 of this book. Also, follow carefully the instructions listed above.



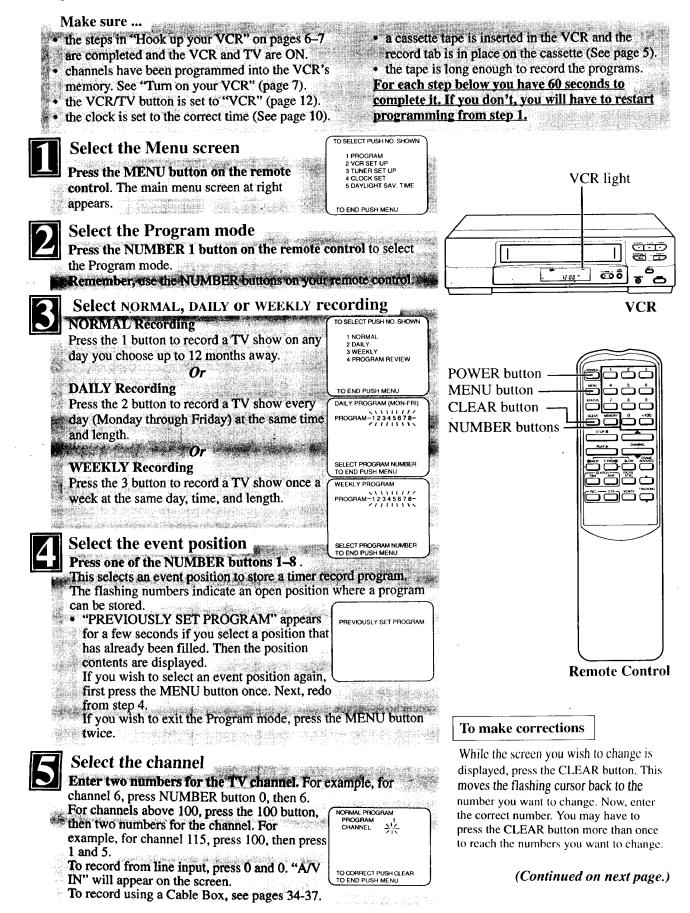
If you use a converter box or satellite system hook-up, you may not be able to do this feature.



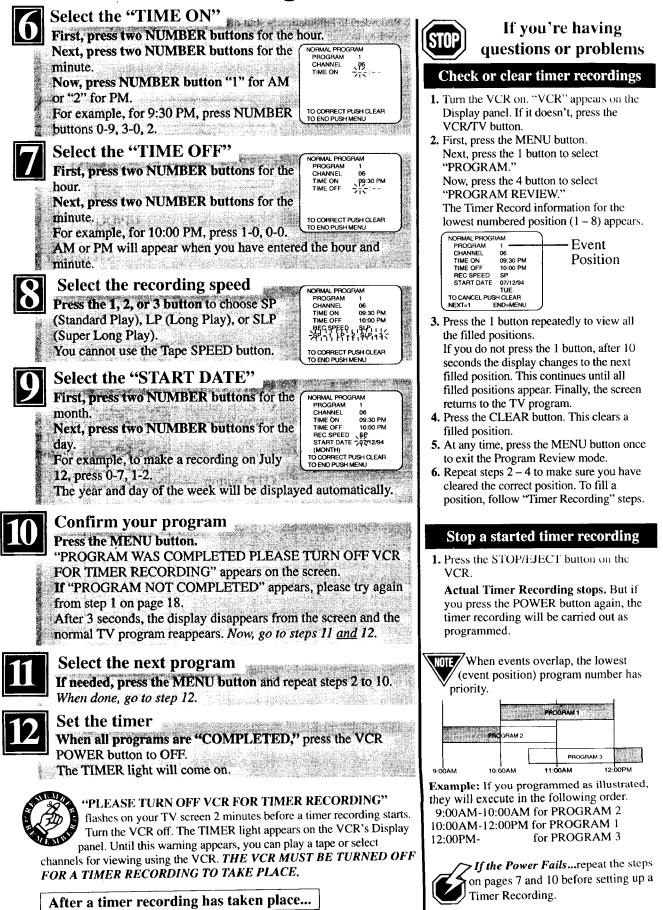
**Remote Control** 

# 18 — Timer recording

**Read steps 1–12** to record while you're away. For each event you set, the VCR will turn itself on, do the recording, and turn off automatically. You can store up to eight events. Instructions for each step appear on the TV screen after you begin. You must use your remote control.



# 19 — Timer recording (continued)



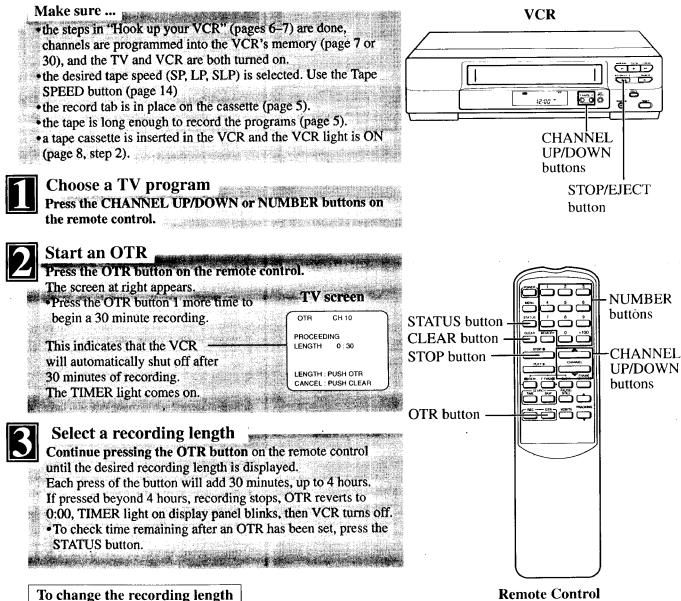
...press the VCR POWER button on the remote control to return your VCR (Video Cassette Recorder) to normal operation.

# oing More

(For additional information, see page 33.)

# One touch recording (OTR)

) ead steps 1-3 to set the VCR (Video Cassette Recorder) to automatically shut off after recording is completed. OTR Nets you quickly specify how long you want recording to continue. You don't have to program the timer with this function. You must use your remote control.



Press the OTR button until the desired length is displayed.

**Remote Control** 

### To cancel an OTR

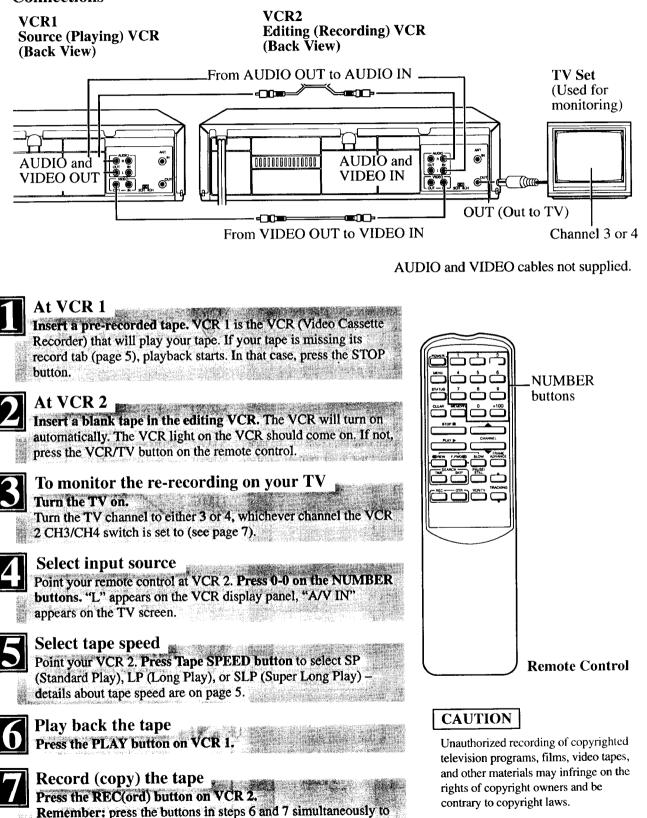
Press the OTR button on the remote control to select the OTR display. Now, press the CLEAR button on the remote control or the STOP/EJECT button on the VCR. "OTR CANCELLED" appears on the TV and the VCR goes into the Stop mode.

OTR CANCELLED

# 21 — Re-Recording (Tape Duplication)

Dubbing from any VHS recorder (or camcorder) to another is simple. Just use the connections and steps below. The example below uses two VCRs like this one. Other VCRs may operate differently.

### Connections

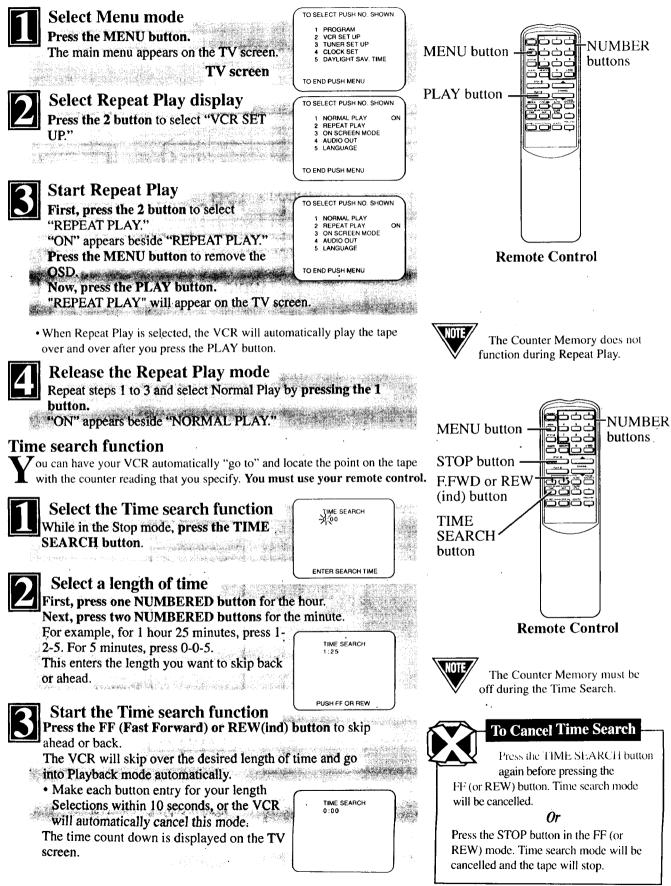


avoid missing any of the recording.

# 22 — Tape operation

### Auto repeat playback

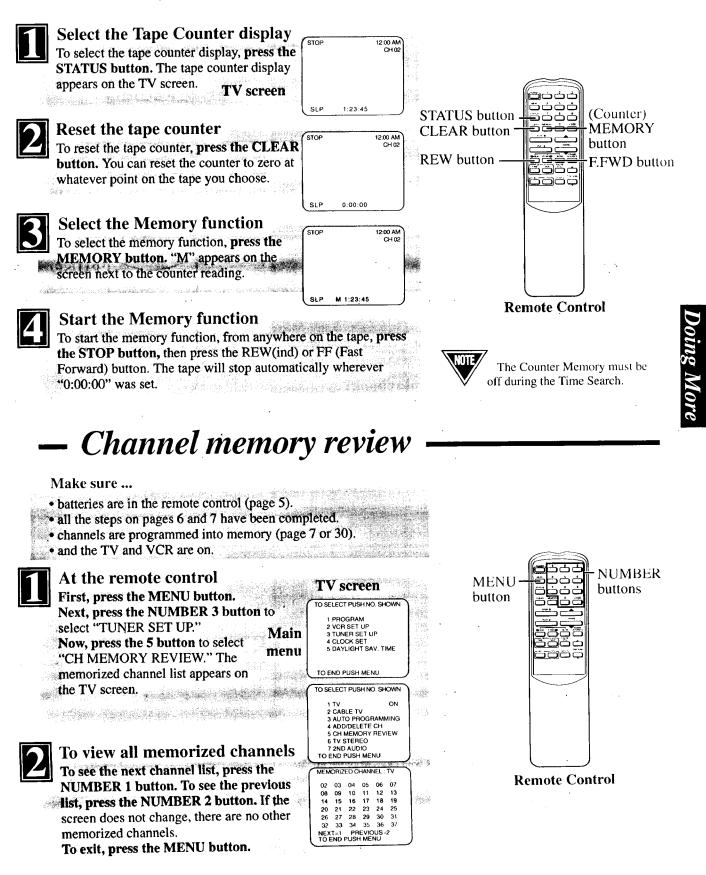
With Repeat Play, the VCR automatically plays a tape to the end of the tape, then rewinds the tape and repeats playback over and over. You must use your remote control.



# 23 — Tape operation (continued)

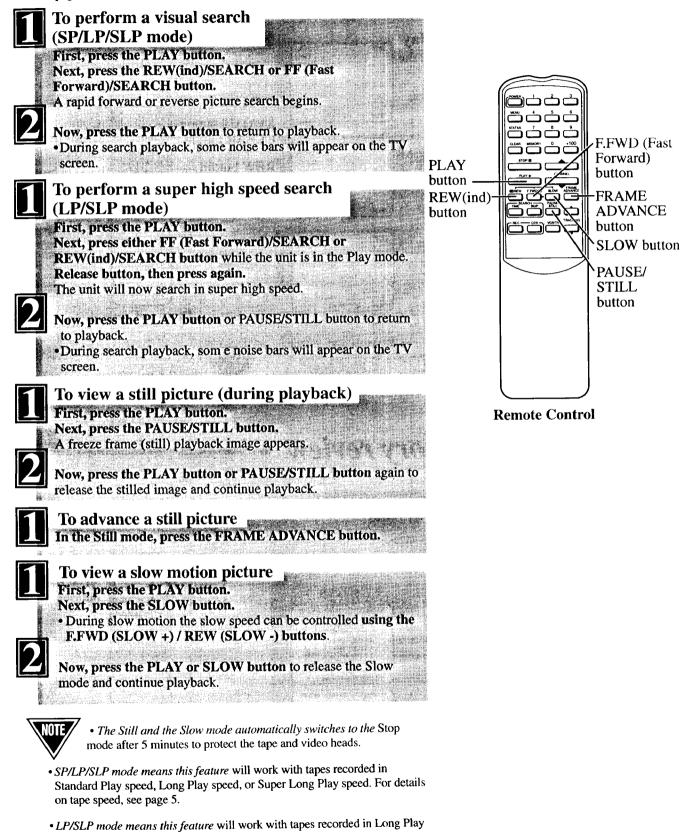
### **Tape Counter Control**

f you always rewind your tapes fully and reset the tape counter, then you'll be able to use a list of program locations as an index. You must use your remote control.



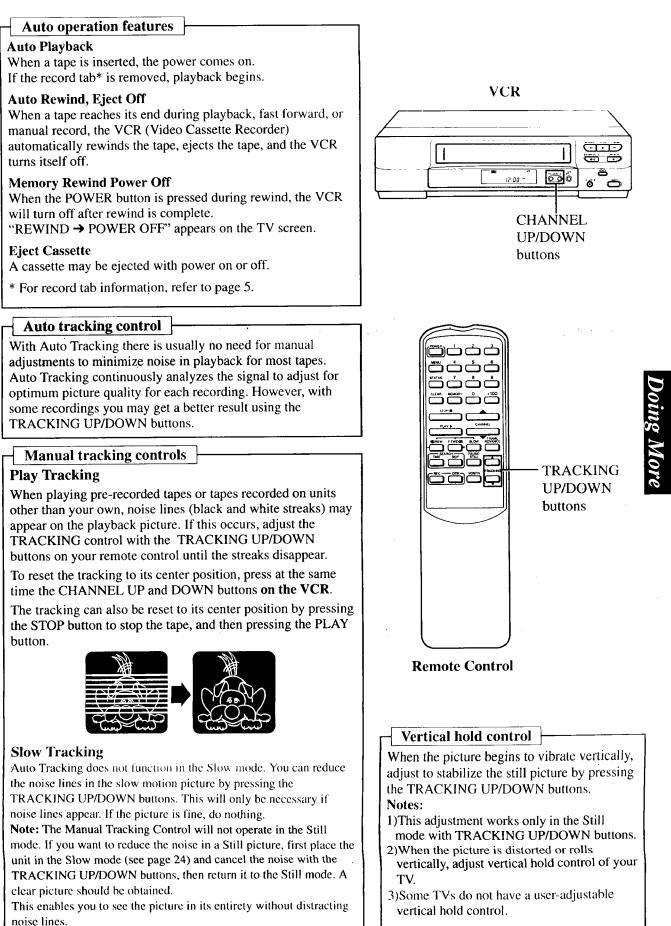
# 24 — Special playback features

Is your VCR (Video Cassette Recorder) connected to your TV (see page 6–7 "Hook up Your VCR")? Are you familiar with tape playback (see page 8, "Play a Tape")? If so, you are ready to enjoy the special playback features described on this page. You must use your remote control.



LP/SLP mode means this feature will work with tapes recorded in Long speed and Super Long Play speed. For details on tape speed, see page 5.

# 25 — Special playback features (continued)

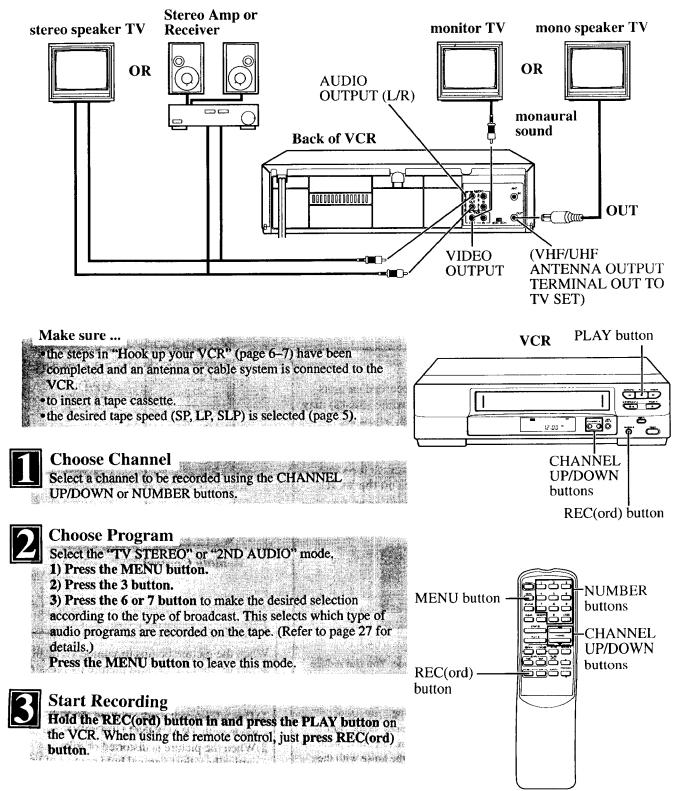


# 26 — MTS (Multi-Channel Television Sound) broadcast stereo system

### **To Record MTS Stereo Broadcast**

The enjoyment of MTS broadcast stereo can be yours, even when you are watching a mono sound TV, by using a stereo amp and speakers. You can select the type of broadcast and sound track you wish to record using the steps below.

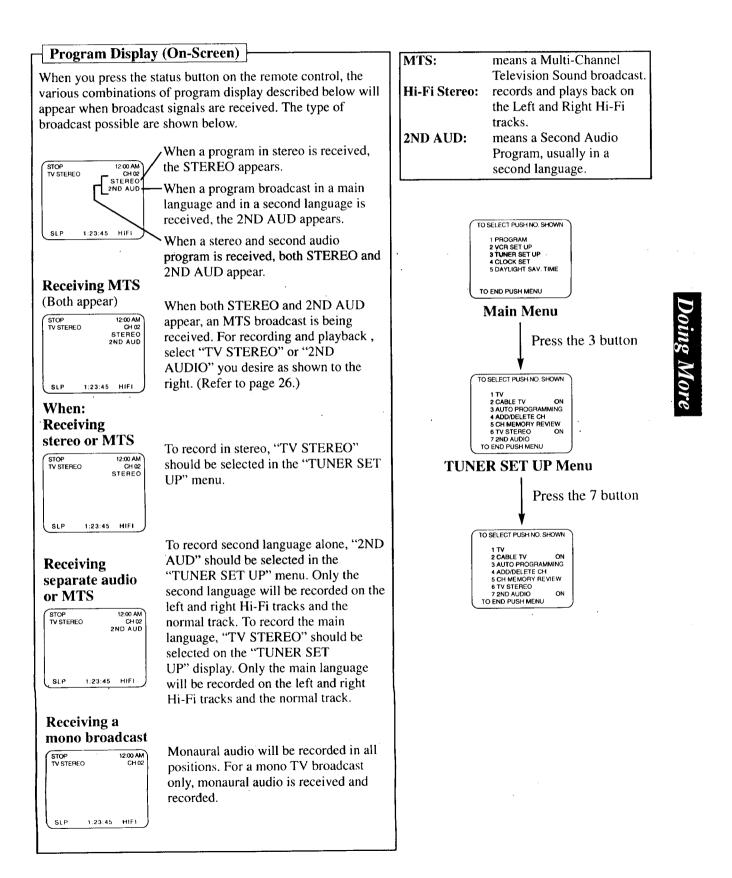
### Connections



**Remote Control** 

# 27 - MTS (Multi-Channel Television Sound) broadcast stereo system (cont'd) -

Your VCR (Video Cassette Recorder) can record in Hi-Fi stereo or record a second audio broadcast, and also record either when both are received as an MTS broadcast. To play back Hi-Fi stereo, you should connect a stereo amplifier and speakers to your VCR. No additional connections are needed for second audio. In addition to these two left and right Hi-Fi tracks, there is a normal audio linear monaural track which is automatically recorded for playback on non-HiFi VCR's.



# 28 — VHS Hi-Fi stereo sound system

Your VCR (Video Cassette Recorder) has a new VHS Hi-Fi stereo sound system with several improvements. When an MTS (Multi-Channel Television Sound) program is broadcast in stereo, it can be recorded in stereo Hi-Fi. Just be sure the settings shown in the AUDIO OUT and TUNER SET UP menus are displayed like those below. With these settings, you can record and playback stereo programs in Hi-Fi audio. You must use your remote control.

### **Hi-Fi Recording and Playback of MTS**

When recording or playing an MTS broadcast, be sure the selections below have been made.

Selecting Main Menu Press the MENU button. The main menu appears.	TO SELECT PUSH NO. SHOWN 1 PROGRAM 2 VCR SET UP 3 TUNER SET UP 4 CLOCK SET 5 DAYLIGHT SAV. TIME
	TO END PUSH MENU
	Main Menu
Selecting VCR SET UP Menu Press the NUMBER 2 button to display the "VCR SET UP" menu.	TO SELECT PUSH NO. SHOWN 1 NORMAL PLAY ON 2 REPEAT PLAY 3 ON SCREEN MODE 4 AUDIO OUT 5 LANGUAGE
	TO END PUSH MENU
	VCR SET UP Menu
Press the NUMBER 4 button to select the "AUDIO OUT"	
menu. Now, press the NUMBER 1 button to select "HIFI." exit, press the MENU button. This setting gives you:	
• stereo Hi-Fi playback.	TO END PUSH MENU
•monaural playback of non Hi-Fi tapes.	AUDIO OUT Menu
	VCR button
	Pressed Time
• Normally, "HIFI" should be selected from the "AUDIO OUT" menu for playback with Hi-Fi sound so that "Hi-Fi" appears on the status display. But, you can change the selection to "MONO" to the normal audio playback. "Hi-Fi" disappears on the status display.	Tuner Audio Select Mode
	SLP M 1:23:45 HIFI Audio
	Mode
	Tape └─Counter and Speed Counter Memo
	*
	VCR Status display

# 29 — VHS Hi-Fi stereo sound system (continued) -

2

Selecting TV STEREO or 2ND AUDIO mode First, press the MENU button. The main menu appears. Next, press the NUMBER 3 button to display the "TUNER SET UP." Now, a) Press the NUMBER 6 button to select "TV STEREO." This setting gives you: • stereo Hi-Fi recording (in the main language). Or b) Press the NUMBER 7 button to select "2ND AUDIO."

This setting gives you: • Recording in the Second Audio program.

### **Return to the Normal Screen**

After completing the setting you want, press the MENU button to exit. The channel or a blue background will return to the screen.

### **Recording in VHS Hi-Fi**

Both the Hi-Fi audio and a separate linear (monaural) audio are automatically recorded on the each track.

Note: To record, a video signal is requires for proper speed accuracy.

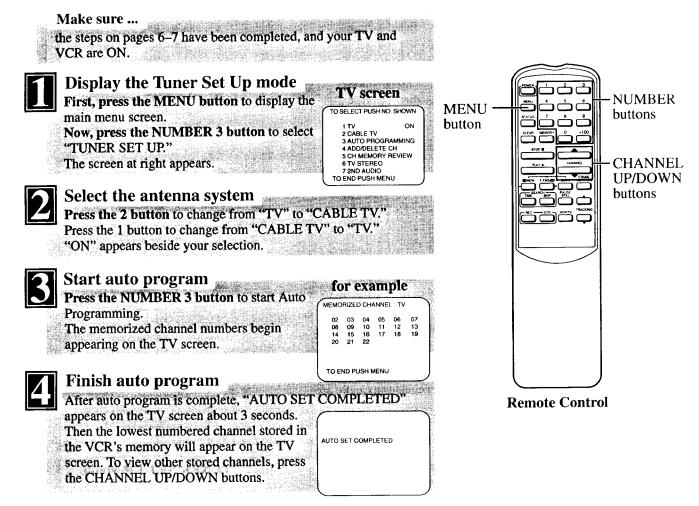
TO SELECT PUSH NO. SH	IOWN `
1 TV	
2 CABLE TV	ON
3 AUTO PROGRAM	VING
4 ADD/DELETE CH	
5 CH MEMORY REV	'IEW
6 TV STEREO	ON
7 2ND AUDIO	
TO END PUSH MENU	

### **TUNER SET UP Menu**

# 30 — Special VCR features

### Place local channels in VCR's memory

**Read steps 1–4** to place receivable channels in your VCR (Video Cassette Recorder). Although your VCR automatically scans all Normal TV channels and places receivable ones in memory the first time you turn its power on, this function lets you re-program your VCR's tuner at any time. This allows reception of either Normal TV channels or Cable TV channels, but not both. With the Add/Delete feature you can add or delete any channel. You must use your remote control.



### Adding and Deleting a Channel

- **1.** Press the MENU button to display the menu screen. Next, press the 3 button to select "TUNER SET UP."
- 2. Press the 4 button to select the Add/Delete channel feature. The display shown here will appear.
- **3.** Press two numbers to add or delete channels up to 99. For 100 or more, first press the 100 button, then two numbers.
  - Always enter a "0" before any single-digit entries. For example, 0, then 6 for "6."
  - Refer to "Using the 100 button" (Page 8) to enter a three-digit number.
- 4. Press the 1, 2, or 3 button to "ADD," "DELETE," or "SELECT ANOTHER CH" that is in the VCR's memory.

If "3" is selected, the display in step 2 will re-appear.

To exit the Add/Delete mode, press the MENU button once.

### Note:

Channel 0, 0 (Line input) cannot be added or deleted from the VCR's memory.

### TO END PUSH MENU TO SELECT PUSH NO. SHOWN CH 12 1 ADD 2 DELETE 3 SELECT ANOTHER CH

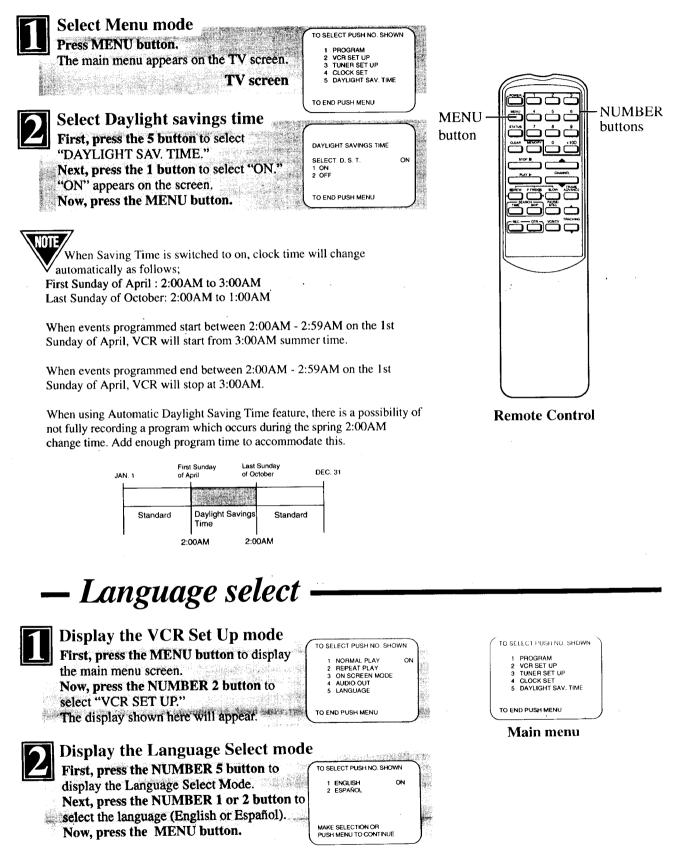
SELECT CHANNEL NUMBER

대꽃은

TO END PUSH MENU

# 31 — Daylight savings time

Select this feature and the VCR's clock will automatically advance one hour in April; then reverse the clock one hour in October. Remember : The clock must be set first (page 10). You must use your remote control.



oing Mo

# 32 — Maintenance

### Cabinet cleaning

Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.
Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

### VCR head cleaning

• Picture playback may become blurred or interrupted while the TV reception remains clear. This does not mean that the recorded program has been erased. Dirt accumulated on the heads after long periods of use causes this problem. Head cleaning requires highly technical skill. Clean heads only when this symptom occurs. Bring the unit to your nearest Authorized Service Center for a complete cleaning of the heads and cassette compartment.

### Servicing

• Should your unit become inoperative, do not try to correct the problem yourself. There are no user-serviceable parts or adjustments inside. Switch power off, unplug the power cord, and take the unit to your nearest Authorized Service Center for servicing.

### Protecting your video cassettes

Eject and store the cassette after you play it. This helps protect the cassette and the VCR's internal mechanisms from dust. Place your video cassettes in their protective boxes and store them in a cool, dry, dust-free area. Store the cassettes on end, not on their sides.

This prevents improper setting of the tape spool.

Protective Box Cassette

Store the cassette in its case as shown. When handling cassette tapes, take the following precautions:

- Avoid moisture, which can condense on the tape if it is moved from a cold place to a warm place. Playing a tape that has moisture on it will damage the tape and your VCR (Video Cassette Recorder). Before using a tape with these conditions, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

# 33 — Notes on operations

### **Hook up Your VCR**

• If the reception on all VHF (Very High Frequency) channels is unsatisfactory, you may need to re-tune your TV set.

### **Clock Adjustment**

- In the Clock Adjustment mode, be sure to enter the first digit and all subsequent entries within 60 seconds of one another. Otherwise, the VCR will automatically leave this mode and the program you were watching will return to the screen. If this happens, press the MENU button and start again.
- Be sure to enter "0" before single-digit numbers.
- *The letters indicating the day* of the week will appear when you have entered both digits for the year.
- If the digits entered for the day do not match the calendar, the entry will be rejected and "?" will appear.
- *If you press the MENU button* while in the Clock Set mode, the TV screen will return to the program you were watching.

### **Special Playback Features**

- During VISUAL SEARCH, horizontal noise bars will appear on the TV screen.
- SUPER HIGH SPEED SEARCH can be activated during playback of the tapes recorded in LP or SLP speed.
- After the VCR has been in the Still mode for more than 5 minutes, it will automatically go into the Stop mode to protect the tape and video heads.

### To Record

- Although it is possible to change the tape speed while you are recording, some distortion will appear on the tape at the point where you make the change.
- After the VCR has been in the Pause mode for 5 minutes, it will automatically go to the Stop mode to protect the tape and video heads.

### **One Touch Recording (OTR)**

- If the preset time for a timer recording comes up during OTR recording, OTR has priority.
- In addition to the way described on page 20, once an OTR starts, you can cancel it by pressing the OTR button twice. This cancels the OTR but also turns the VCR off after a few seconds.

### **Power Failure**

• *Timer Recordings will be erased* if the power fails. Repeat "Turn on your VCR" on page 7 and "Set the Clock" on page 10 before setting up a "Timer Recording" on pages 18–19.

### Line Input

• If you accidentally get into the Line mode ("L" appears on the VCR), to exit simply press the CHANNEL UP/DOWN button or select a channel using the NUMBER buttons.

### **Timer Recording**

- You should finish programming a timer recording at least 5 minutes before the recording is set to start.
- To do a timer recording in the LINE mode, follow steps 1-4 in "Timer Recording" section. At step 5, press the NUMBER button 0 twice (0, 0) to engage the LINE (external source) mode. Complete the rest of the steps under "Timer Recording" section.
- *Timer recording may not be performed* or continued if a power interruption of more than one minute occurs before or during timer recording, even if power resumes thereafter. Preset clock and timer data will be lost. This is indicated by the clock display on the VCR which resets to "- : -". If this happens, reset the clock and reprogram the timer.
- If the time spans of two preset programs overlap, the lower numbered program will have priority.
- If the POWER button is pressed to OFF with no cassette loaded, the TIMER light blinks.
- If the record tab is missing, the cassette will be ejected when the POWER button is pressed to OFF, and the TIMER light blinks.
- 12PM = Noon
- 12AM = Midnight
- Once a timer recording has started, you can cancel it by following the directions on page 19, "Stop a started timer recording."

### Satellite Hook-Up

- *Watching one TV channel* while recording another may not be possible with a satellite hook-up.
- You may have to set your VCR to channel 3 or 4 and ... make your channel selections at the satellite converter box.
- For many satellite hook ups, if you use accessory Audio and Video cables (not supplied) to hook up your satellite tuner to your VCR, you will have to set your VCR to Line Input. "A/V IN" appears on your TV screen when you first switch into this mode. "L" appears on your VCR. The VCR to TV hook-up will look similar to "VCR to Stereo TV Hook ups" on page 37. For details, see your satellite hook up instructions.

# 34 — Other hook ups you can try

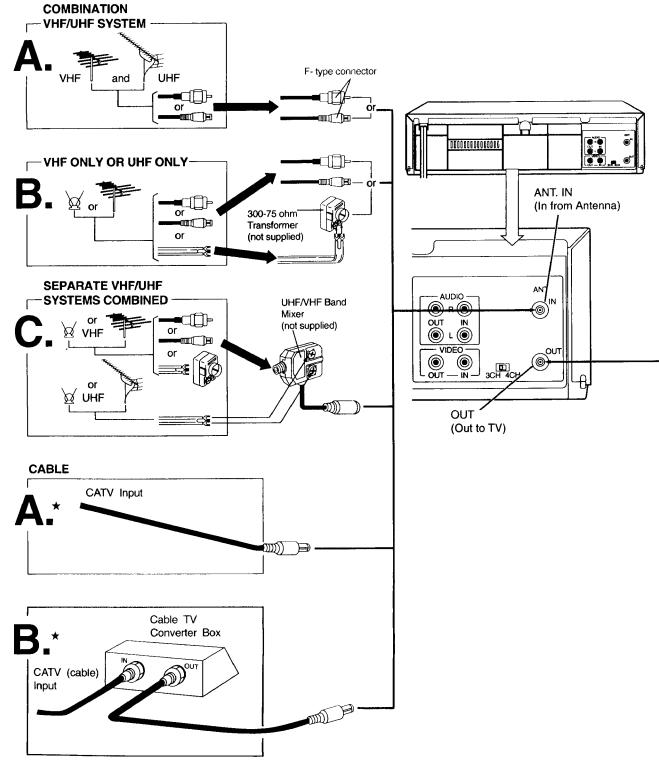
### Antenna or Cable to VCR to TV Connections

مقعة ومتقافة ترامين فالمرام أعانه وماسمة عاصور والتقاط فالدان

# STEP 1: Disconnect the Antenna or Cable from your TV.

# STEP 2: Connect your Antenna or Cable to your VCR.

Your antenna or cable should have one of the ends shown below. To avoid confusion, label all terminals (on TV) and ends before disconnecting.



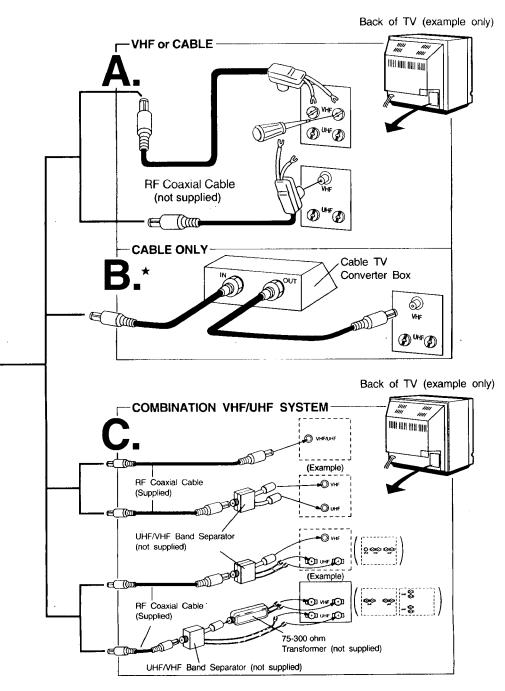
\* Please see pages 36 - 37 for details.

(Continued on the next page.)

# 35 — Other hook ups you can try (continued)

**STEP 3:** Connect Your VCR to your TV. Look at the back panel of your TV. Find the appropriate diagram below and use that method to connect your VCR to your TV. Use only one connection. STEP 4: Select Channel 3 or 4.

For details, see pages 7 and 36-37.



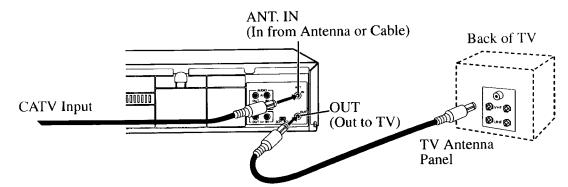
### For UHF-ONLY antenna system:

Even if you plan to only play back tapes or view and record UHF programs, you still need to make one of the combination VHF/UHF connections shown above, because when in operation, your VCR sends VHF signals (either channel 3 or 4) to the TV across the RF Coaxial Cable.

# 36— Other hook ups you can try (continued)

### Without a Converter/Descrambler box

Use this connection if your cable system connects directly to your TV without a converter box.

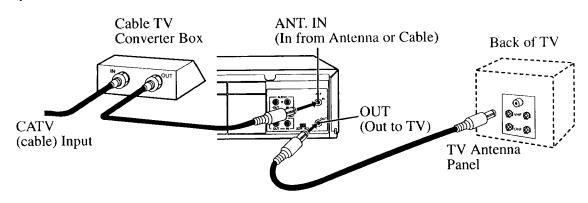


With this connection, you can: (1) use your VCR Remote Control to select channels; (2) program one or more unscrambled channels for unattended recording; (3) view one channel while recording another.

NOTE: • You can also use the CHANNEL UP/DOWN button to select the desired channel. • You cannot record or view scrambled channels with this connection.

### With a (Cable to VCR) Converter/Descrambler box

If your cable service supplies you with a converter box, you can use the basic connection shown here.



With this connection, you can record and view any channel including scrambled channels. <u>However, channel</u> selection must be made at the cable company converter box. This means that channels cannot be changed using the VCR Remote Control. Unattended recording is limited to one channel at a time, and you cannot view any channel than the one you are recording.

### To Record and View a Scrambled/Unscrambled Channel

- 1. Turn the VCR on and, if needed, set the VCR/TV button located on the front of the VCR to "VCR." (VCR light will shine).
- 2. Using the VCR CHANNEL UP/DOWN buttons, set the VCR channel to the output channel of the Cable Converter Box. (If the Cable Converter Box is set to channel 3, the VCR should be set to channel 3. If the Box is set to channel 4, the VCR should be set to channel 4).
- 3. Set the TV channel to the output channel of the VCR (channel 3 or 4).

4. Select the channel to be recorded or viewed at the Cable Converter Box.

Note: To do a Timer Recording, One Touch Recording (OTR), or Standby OTR using this hook up, select the channel to be recorded at the Cable Converter Box. Leave the VCR on channel 3 or 4 (see step 2 above).

Follow all other Timer Recording and OTR instructions.

Remember: the Cable Converter Box must be ON during recording.

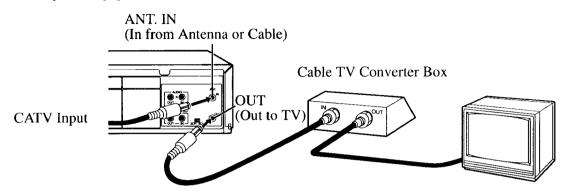
### To Watch TV (with the VCR off)

- 1. Set the TV channel selector to the output channel of the Cable Converter Box.
- 2. Select the desired channel on the cable converter channel selector.

# 37 — Other hook ups you can try (continued)

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

If your cable system uses a converter box, you may try this connection instead of the basic cable connection shown on the previous page.



With this connection, you can: (1) program unattended recording of more than one unscrambled channel; (2) view one channel while recording another.

NOTE: • Use the CHANNEL UP/DOWN button to select the channel to be recorded, including Timer Recording and One Touch Recording.
• You cannot record scrambled channels with this connection.

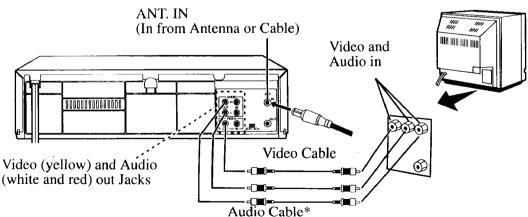
### To record one channel while viewing another

- 1. Select the channel to be recorded with the CHANNEL UP/DOWN button.
- 2. On the VCR set the VCR/TV selector to "TV."
- 3. Set the channel selector on the TV to the output channel of the Converter Box.
- 4. Select the channel to be viewed on the Converter Box.

### To play back a tape

- 1. Set the VCR/TV selector to "VCR."
- 2. Set the TV channel selector to the output channel of the Converter Box.
- 3. Set the Converter Box channel selector to the VCR output channel (channel 3 or 4).

### VCR to TV hook ups



Stereo VCR to Stereo TV Hookup

\*A stereo audio cable (not supplied) is used here to deliver sound to the TV's left and right channels. The TV must be in Aux or Line input mode.

For any additional adjustments you need to make to your TV, refer to your TV owner's manual.

### Stereo VCR to Monaural TV Hookup

\*Use the connection described above, but in place of a stereo audio cable, use a Y splitter audio cable (not supplied). Connect this cable to the VCR's double audio jacks and the TV's single audio jack.

Back of TV (example only)

# 38— Before requesting service

**IMPORTANT NOTE:** Periodic maintenance is required in order to maintain the unit's continued excellent performance. After a period of time the video heads will require replacement. If cleaning or replacement of the video heads is required, this service should be performed by an authorized Video System Service Center.

Check the following points once again if you are having some difficulty with your VCR (Video Cassette Recorder).

Power	Correction———
No power	<ul> <li>Check that the Power plug is completely connected to an AC (Alternating Current) outlet.</li> <li>Check that the Power button is set to ON.</li> </ul>
Power Failure	• Please complete "Setting the clock" on page 10 before attempting to set up a "Timer recording" on pages 18 – 19.
	Correction
TV program can't be recorded	<ul> <li>Check the connections between the VCR, the external antenna, and your TV.</li> <li>Check that the band selected matches your antenna or cable TV system (P. 34 - 37).</li> <li>Make sure that the record tab on the back of the cassette is still intact (P. 5).</li> </ul>
Timer recording can't be performed	<ul> <li>Set the recording start/stop time correctly (P. 18 – 19).</li> <li>Make sure that the POWER button is set to "OFF" (P. 19).</li> <li>Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during Timer recording, even if the power resumes thereafter.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select the same channel on your TV as that of the VCR Channel 3/4 switch (P. 7).</li> <li>Set the VCR/TV selector to "VCR" (P. 12 or 14).</li> <li>Check that channel 3 or 4 of the TV is properly adjusted.</li> <li>Adjust the Tracking control slowly in either direction (P. 25).</li> </ul>
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, if available, to "MANUAL" and adjust.
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 the horizontal hold control or adjusting the control does not help, please contact your local TV service center.

# 39 — Before requesting service (continued) -

-Remote Control	Correction
VCR can't be remote controlled	• Aim the remote control directly at the remote sensor on the VCR (P. 8 & 14).
	• Avoid all obstacles which may interfere with the signal path.
	• Inspect or replace the batteries (P. 5).
	• Make sure batteries are inserted correctly (P. 5).
- Miscellaneous	Correction
You can't view programs normally on the TV	<ul> <li>Set the VCR/TV selector to "TV" (P. 12 or 14).</li> <li>Check VCR hook ups (P. 6-7 or 34-37).</li> </ul>
Video cassette can't be inserted	<ul><li>Insert the cassette with the window side up and the record tab facing you.</li><li>Make sure a cassette tape is not already inserted.</li></ul>
	Press STOP/EJECT button on VCR.
Video cassette can't be removed	• Check that the power plug is completely connecte to a standard AC household outlet.
Video cassette ejects when the OTR or REC(ord) button is pressed or the POWER button is pressed OFF to set the Timer	• Check the cassette to be sure that the record tab o the back of the cassette is still intact (P. 5).
In the Stop mode, the motor (CYLINDER) continues to rotate	• To enable quick play mechanism the cylinder will rotate for about 5 minutes. This is normal.

# 40— Specifications —

### **General Specifications**

# Electrical Specifications

General Specifications		Electrical Specifications		
Television system	: NTSC-M		Video output level	: 1 <b>Vp</b> -p
Recording system	: Rotary two-h	ead helical	Video output impedance	: 75 ohm
	scan system		Audio output level	: -6dBv (1KHz)
Tape width	: 1/2 inch (12.6	5mm)	Video input level	: 0.5~2.0Vp-p
Tape speed			Audio input level	: -10dBv
SP	: 33.35mm/sec		Video S/N ratio	
LP	: 16.67mm/sec		SP	: More than 40dB
SLP	: 11.12mm/sec		Audio S/N ratio	
Tuner channel			SP	: More than 38dB
TV VHF Low	: 2~ 6			
TV VHF High	: 7~13		Other Specification	ons
TV UHF	: 14~69		Operating Temperature	: 41°F (5°C) to $104$ °F (40°C)
CATV Channels			Relative Humidity	: 10% to 75%
MID band	: A~I	(14~22)	Power requirement	: AC 120V, 60Hz
SUPER band	: J~W	(23~36)	Power consumption	: 20W
HYPER band	: W+1~W+28	(37~64)	Dimensions	: 3-1/16" (92mm) x
LOW band	: A-5~A-1	(95~99)		14-3/16" (360mm) x
SPECIAL CATV				10" (252mm) (H/W/D)
channel	: 5A	(1)	Weight	: 7.6 lbs (3.4 kg)
ULTRA band	: W+29~W+58	8 (65~94),		
	W+59~W+84	(100~125)		
Terminals:				
Antenna input	: F type connec	ctor x 1		
Antenna output	: F type connect	ctor x 1		
Video input/output	: RCA connect	or x 2		
Audio input/output	: RCA connect	or x 4		

Designs and specifications are subject to change without notice.

# 41 — Warranty

### LIMITED WARRANTY Video Cassette Recorder/Player • 90-Day Carry-In Service Labor Warranty • One (1) Year Exchange Warranty On Parts

• For purchases outside the U.S.A., Canada, Puerto Rico, and U.S. Virgin Islands, see applicable warranty from country of purchase.

### Please keep...

...your sales receipt and other material proving proofof-purchase. Attach it to this owner's manual and keep both nearby. Please also keep the original box and packing material. And please write in your model and serial numbers in the shaded area below.

### Parts and Labor Coverage...

...starts from the date you bought your product. For the first 90 days both parts and labor are covered. After 90 days, only parts are covered for the remainder of one (1) year. Any defective part will be repaired or replaced. Any part is covered only for the original warranty period. Once the one (1) year warranty on the product has expired, the warranty on any replaced or repaired part also expires. Service is provided by a Philips Factory Service Center or an Authorized Service Center. Centers must be allowed to keep defective parts.

After 90 days, you pay for all labor. After one year, you pay for all parts, transportation, and service charges too.

### Who is Protected? ... Where?

Only the person who has proof-of-purchase will receive warranty service. This service will be provided to any product bought and used in the U.S.A., Canada, Puerto Rico, and the U.S. Virgin Islands. If you move within these areas, any Philips Factory Service Center (See enclosed list) or an Authorized Service Center in your area will honor this warranty.

### **Before Calling for Service...**

...please check your owner's manual. A check of the controls discussed there may save you a service call.

### How to Get Warranty Service:

If warranty service is required, you must deliver your product with proof-of-purchase to a Philips Factory Service Center (See enclosed list) or Authorized Service Center for repair. When repair is completed, you must pick up the unit at the Center.

Please write in your model and serial numbers below. These numbers are located on your product. Keep this manual nearby for easy reference. <u>Model No.:</u> Serial No.:

### Warranty Exclusions –

Your Warranty Does Not Cover...

...labor charges for installation or set up, adjustment of customer or preference controls, and installation or repair of antenna systems outside the unit. ...product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.

...reception problems caused by signal conditions or cable or antenna systems outside the unit.

...a product purchased, used, or serviced outside the U.S.A., Canada, Puerto Rico, and the U.S.Virgin Islands, or used for commercial or institutional purposes (including but not limited to products used for rental purposes).

...incidental or consequential damages resulting from the product. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, pre-recorded material (copyright or noncopyright).

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

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

### **Cassette Tapes**

It is recommended that you use only cassette tapes which have been tested and inspected for use in 2, 4, 6, or 8 hour VHS recorders, and which are so labeled. The use of tapes which have not been tested nor of a VHS format may result in poor picture quality. Damage caused by the use of tapes other than those recommended may void the product warranty.

### **IMPORTANT REMINDER:**

Please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if it should ever be required. Please also keep your sales receipt and other proof-of-purchase information.

Philips Service Company 401 East Old Andrew Johnson Hwy. • Jefferson City, Tennessee 37760 (615) 475-8869

PLEASE HAVE YOUR MODEL AND SERIAL NUMBERS ON HAND ANY TIME YOU CALL.

# 42— Glossary

For your convenience, the following list of terms is provided to help you better understand your VCR and its operation.

<u>Audio In/Out</u>: These are connectors (jacks) located on the back of the unit. They are used to record the audio from another source (IN) or play the audio to another source (OUT).

Auto Program: This is part of the CHANNEL

MEMORY function. When used the VCR runs through (scans) all the channels on the VCR and all the channels received in your area are automatically placed in memory.

TV Bands: Two possible settings:

### TV CH

This consists of two types of frequencies: **VHF** 

(Very High Frequency) Channels which are received by the tuner on channels 2 to 13. UHF

(Ultra High Frequency) Channels which are received by the tuner on channels 14 to 69.

### CATV

CABLE TV, the second setting possible for TV Band tuning. This term means the unit is capable of receiving standard and unscrambled channels on cable without the use of a cable decoder or converter box.

<u>Channel(s)</u>: Selected with the NUMBER buttons or CHANNEL UP/DOWN buttons on the remote.

<u>Clear:</u> To remove a completely programmed Timer Recording or to correct a single clock or program entry.

**<u>Counter:</u>** For locating specific areas on a tape by referencing the counter number.

**Dubbing:** Copying the contents of a tape with the use of a second VCR.

**Exit:** To quit a specific task as directed by your operating instructions on screen or in the book.

**Fast Forward (FF):** To move the tape rapidly in the forward direction.

Frame: Single still picture.

**HQ** (High Quality): An enhancement feature in the VCR circuitry which provides greater picture detail. Matching transformer: An adapter used primarily on non-cable ready TV's. One end has a "screw on" type connector and the other end has two flat leads that connect to the TV.

**MENU:** Information that will appear on the TV screen and give you operating directions.

$\bigcap$	TO SELECT PUSH NO. SHOWN	1
	1 PROGRAM	
	2 VCR SET UP	
	3 TUNER SET UP	
	4 CLOCK SET	
	5 DAYLIGHT SAV, TIME	
	TO END PUSH MENU	

Main menu

<u>Menu button:</u> When the MENU button is pressed, you will be able to choose from a list of options:

- 1) Selecting the Program mode, to enter information for timer recordings.
- 2) Selecting the VCR SET UP mode, which includes OSD mode and language selection.

3) Setting the TUNER SET UP mode.

4) Setting the Clock.

5) Setting the Daylight Saving Time.

**Mode:** The process of placing the VCR in any of its operating features. Ex: "PLAY" mode.

**OSD (On Screen Displays):** Features and information that appear on the screen.

OTR (One Touch Recording): Making immediate timed recordings with the press of a single button. These recordings can be set from 30 minutes to 4 hours.

**<u>Rewind (REW)</u>**: To move the tape rapidly in the reverse direction.

<u>**RF coaxial cable:**</u> Black insulated round cable used to connect the VCR to the TV.

**Special effects:** Viewing a Still Picture or Fast Forward during playback of a tape.

**Separator:** An adapter used to separate TV signals (VHF-UHF) when having to connect the VCR to a TV with separate VHF and UHF terminals.

**Tape speeds:** This determines how fast the tape travels during a recording.

SP (Standard Play): Fastest tape speed

Fastest tape speed. Recording time for a T120 tape will be approximately 2 hours. (Best Picture Quality)

- LP (Long Play): Average tape speed. Recording time for a T120 tape will be approximately 4 hours.
- SLP (Super Long Play): Slowest tape speed. Recording time for a T120 tape will be approximately 6 hours.

**Tracking:** For use when grainy streaks appear through the picture. This may be corrected by adjusting the Tracking Control.

**VCR/TV button:** This button turns the "VCR" light, on the front of the VCR, ON and OFF. When "VCR" is on, this prepares the VCR for viewing your recordings or tape playback on the TV. When off, all channel selections are made at the TV.

VCR: Video Cassette Recorder.

<u>Video In/Out:</u> These are connectors (jacks) located on the back of the unit that are used to record the video from another source (IN), or play the video to another source (OUT).

<u>Wireless remote control</u>: By pressing the buttons on the remote, signals are sent to the VCR to perform the desired task(s).

# 43— Index

The second second

A REAL PROPERTY AND A REAL

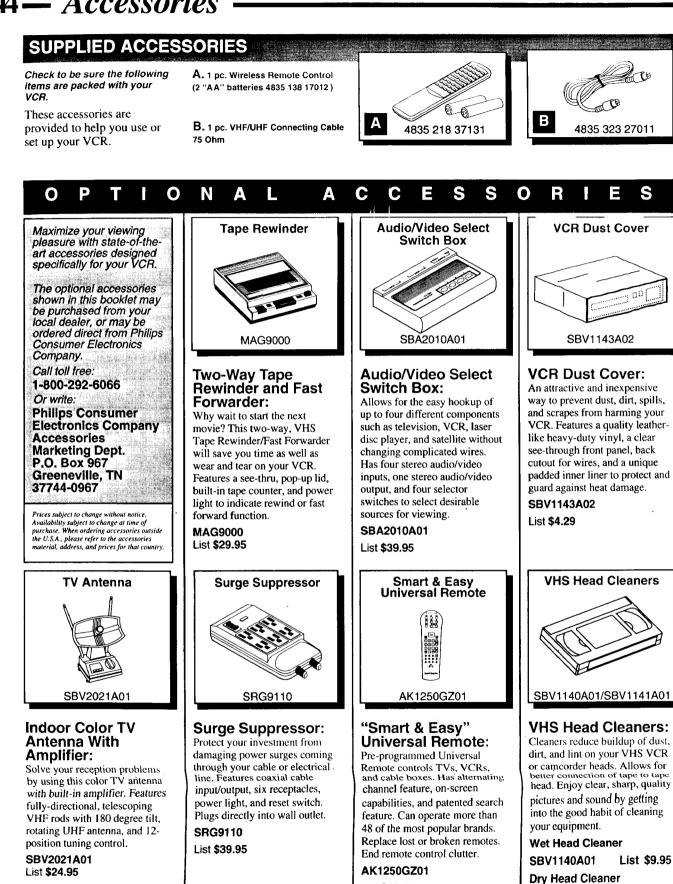
Accessories (Optional)44
Accessories (Supplied)44
Adding Channels30
ANT(enna) IN(put)
Jack6, 16, 36-37
Audio Input/Output16, 21, 37
Auto Operation25
Auto Rewind25
Auto Tracking25
Battery Installation5
Cassette5
Cassette-In Light15
CHANNEL 3/4 Switch7, 16
CHANNEL UP/DOWN
Buttons12-14
Cleaning32
CLEAR
Button10, 13, 18-20, 23
Clearing Timer Programs19
Clock (Setting)10
Controls12-16
Deleting Channels
Digital Display15
Display Panel14-15
Duplication21
EJECT Button14
Erase Protection5
FAST FORWARD
Button13, 14, 23, 24
Features4
Function Light15
FRAME ADVANCE Button12
Glossary42
Hook up your VCR6-7
Input Select17, 33
Insert a Cassette8, 9
Language Select7, 11, 31
LINE Input17, 18, 21, 33

LP (Long Play)5, 9, 19, 24
Manual Tracking25
MEMORY Button13, 23
MENU Button11, 13
NUMBER Buttons12
On Screen Display (OSD)11
One Touch Recording (OTR)20
Optional Accessories44
Other Hook-Ups
You Can Try34-37
OTR Button13, 20
OUT(put) Jack6, 16, 21, 36-37
PAUSE/STILL
Button9, 12, 14, 24
PLAY Button8, 13-14
Playback8
POWER Button12, 14
Precautions (Safety)3
Program channels into
VCR7, 30
Programming the Timer18-19
Rapid Scan24
REC(ord) Button9, 13-14
Record Tab5, 9, 18, 20
Remote Control12-13
Requesting Service
Re-Recording21
REWIND Button13-14, 24, 23
RF Coaxial Cable6, 42
Safety3
Satellite Hook-Up33
Sensor (Remote)8, 14
Set the Clock10
SKIP SEARCH Button13
SKIP SEARCH Button13 SLOW Button12
SLOW Button12

Specifications40
STATUS Button11, 13, 23
STOP Button13, 14
TAPE SPEED
Button5, 10, 14, 19, 21
Time (Clock)10
Time Search22
Timer (Programming)18-19
Timer Light15
Timer Programs (Checking)19
Timer Programs (Clearing)19
Timer Recording18-19
TRACKING Control12, 25
TRACKING UP/DOWN
Buttons12, 25
Trouble Checks
TV Position12, 14
VCR Channel7, 12
CHANNEL UP/DOWN Buttons 12
VCR Light15
VCR Position12, 14
VCR/TV Button12, 14, 17
Video Cassettes5
Video Input/Output 16, 21, 37

**Copyright © 1994 Philips Consumer Electronics Company. All rights reserved.** 

# 44— Accessories



List \$19.95

SBV1141A01

List \$7.95 Printed in Japan

V1460UA \*\*\*\*\* 0VMN01368

IB7017E001