Video Cassette Recorder

# VRA451 VRA651

### **Owner's Manual**

Important! Return your Warranty Registration Card within 10 days. See why inside.



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

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS 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 PHILIPS 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 receive all the information and special offers which you qualify for as the owner of your model.

### PHILIPS MAGNAVOX



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

#### Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, 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 PHILIPS 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 and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly 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 PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst President and Chief Executive Officer

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



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, and fully insert.

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

#### For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference. Model No.

Serial No.

**PHILIPS MAGNAVOX** Visit our World Wide Web Site at http://www.philipsmagnavox.com

#### Welcome to your VCR owner's manual.

This manual describes the VRA451 and the VRA651. The VRA451 is a monaural (single sound source) system, while the VRA651 is a stereo system. Otherwise, the two models are exactly the same. In this manual, the VRA651 is illustrated. (The VRA451 has single AUDIO IN/OUT Jacks. Otherwise, the VRA451 looks exactly like the VRA651.)

This manual has seven sections: Setting Up Your VCR; Description of Controls; Basic Operations; Recording; Playing; Additional Features; and Information You May Need. The instructions explain all of the VCR's features, which are listed below.

#### Features

- Automatic Channel Setup
- Automatic Clock Setting
- Automatic Head Cleaner
- · Blue Background
- Child Lock
- Daylight-Savings Time
- Hi-Fi Stereo Tape Playback (VRA651 only)
- Index Search
- Multi-Channel Television Sound (MTS) System (VRA651 only)
- 19 Micron Head
- · On-Screen Menus in English, Spanish, or French
- Quick Programming
- Remote Control with Capability to Operate TV, Cable Box, and Direct Broadcast System (DBS)
- Repeat Play
- Skip Search
- SmartPicture<sup>™</sup>
- VCR Plus+ Programming System
- Video Stabilizer

Safety Precautions

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

Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

This VCR, equipped with a High Quality (HQ) System, is compatible with existing Video Home System (VHS) equipment. Philips Consumer Electronics recommends that you use only video cassette tapes that are labelled with the **WHS** mark. The use of other tapes may result in poor picture quality and excessive deposits on the video heads, which may not be covered by the warranty if damage occurs.

This VCR also is equipped with S-VHS Quasi Playback (SQPB), allowing you to play S-VHS recordings with regular VHS resolution. This product has a 19 micron head that provides a better picture when you view tapes recorded in slow speed (SLP). Note to the Cable TV System Installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding – in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

#### **Helpful Hints**

 Your new product, its packaging, and this manual contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount that needs to be properly disposed. Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old products, batteries, manual, and packaging whenever you replace existing equipment.

### 4 Table of Contents

Setting Up Your VCRIntroduction
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Information You May Need.52Glossary.53Specifications.53Helpful Hints.54-55Limited Warranty.56Index.57Accessories.60

#### Removing the Plastic Cover from the Front Panel

A thin, plastic cover may protect the front panel of your VCR. Before using the VCR, lift a corner of the plastic, then peel it off.

#### Putting Batteries in the Remote Control



To remove the battery compartment lid, push in the tab, then pull up the lid.

Place two AA batteries inside the battery compartment with their + and – ends aligned as indicated.

**3** Replace the battery compartment lid.

#### Using the Remote Control

- Do not put objects between the remote control and the VCR.
- Point the remote control at the VCR's remote sensor, then press the VCR button before pressing other VCR operation buttons.
- Point the remote control at the TV, then press the TV button before pressing other TV operation buttons.
- Point the remote control at the Cable Box/DBS, then press the CBL/DBS button before pressing other Cable Box/DBS operation buttons.

#### **Erase Protection**

Video cassettes have record tabs to ensure that recordings are not erased accidentally.

# 1

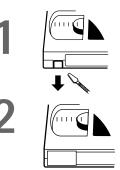
To prevent accidental erasure, break off the tab with a screwdriver.

# 2

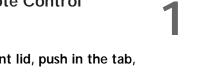
To record again, cover the hole with cellophane tape.

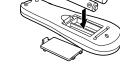
#### VCR Maintenance

- Remove any light adhesive stick-on notes from the video cassette before putting the cassette in the VCR. Removable labels can jam the VCR.
- Periodic maintenance is required to maintain your VCR's performance. Your VCR has an automatic head cleaner, but the video heads eventually will require cleaning or replacement. Only an authorized service center should perform this service.

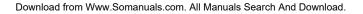


- The remote control and its batteries are supplied.
- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.







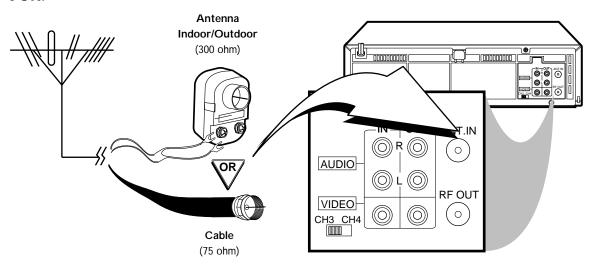


### 6 Hookups without a Cable Box

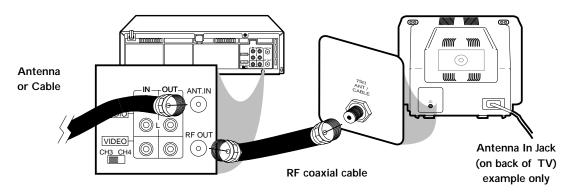
The basic VCR/TV connection – antenna/cable to VCR to TV – is shown below. If you have a Cable Box or a Direct Broadcast System, please refer to pages 8-9. After you hook up the VCR, please go to page 10 to turn on the VCR. (The VRA651 is illustrated here. The VRA451 has single AUDIO IN/OUT Jacks.)

#### Disconnect the antenna or cable from your TV. Antenna IIIIIIII WWWW 0 Indoor/Outdoor (300 ohm) ((((((( JIIII 0 OR ANTENNA IN Jack (on back of TV) Cable (75 ohm)

### **2** Connect the antenna or cable to the ANT(enna) IN Jack on the back of the VCR.



# **3 Connect the RF coaxial cable (supplied) to the RF OUT Jack on the back of the VCR and to the ANTENNA IN Jack on the TV**. (You may use either a snap-on type or screw-on type of coaxial cable, whichever you prefer. A snap-on type is supplied.)

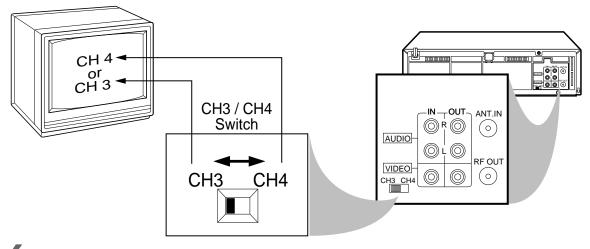


# 4

Plug in the TV and the VCR.

# 5

Set the CH3/CH4 switch on the back of the VCR to CH3 or CH4, whichever channel is not used or least used in your area. To operate your VCR with your TV, set the TV to the same channel. For example, when playing a tape, if the CH3/CH4 switch is set to CH3, the TV should be on channel 3.



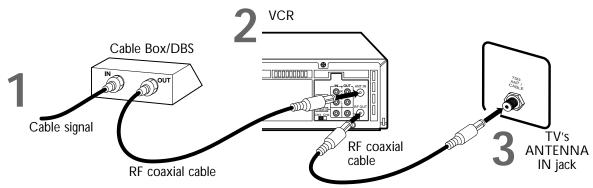
6

You are ready to turn on the VCR. Please go to page 10 before turning on the VCR.

### 8 Hookups with a Cable Box/Direct Broadcast System

#### There are two ways to connect your Cable Box/DBS to the VCR. With this connection:

- · You may view any channel.
- You must select channels at the Cable Box/DBS. Channels cannot be changed at the VCR.
- · You may not view a channel other than the one you are recording.
- · You may not set up channels at the VCR.
- You can only program a timer recording for one channel at a time. Set the TV and the VCR to the Cable Box/DBS output channel (channel 03 or 04); set the CH3/CH4 switch to the same channel. Set your Cable Box/DBS to the channel you want to record. When you enter the channel you want to record in a timer recording, select channel 03 or 04 (the Cable Box/DBS output channel). (This is step 3 on page 36.) Leave the Cable Box/DBS on for a timer recording. (The VRA651 is illustrated here. The VRA451 has single AUDIO IN/OUT Jacks.)



#### Connections

## 1

Connect a Cable signal to the IN jack on the Cable Box/DBS.

# 2

Use an RF coaxial cable (supplied) to connect the OUT jack on the Cable Box/DBS to the ANT(enna) IN jack on the VCR.

# 3

Use a second RF coaxial cable to connect the RF OUT jack on the VCR to the TV's ANTENNA IN jack.

#### **Recording/Viewing Any Channel**

### 1

With the VCR on and in VCR position (the VCR light will appear on the display panel), use the CH(annel)  $\blacktriangle/\triangledown$  button to set the VCR to the Cable Box/DBS output channel (channel 03 or 04).

# 2

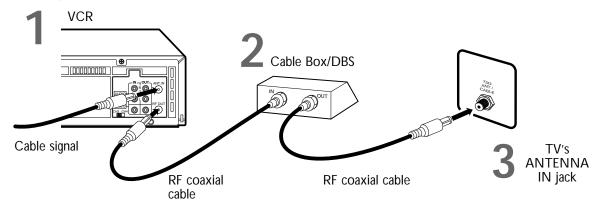
Set the TV to the same channel to which you set the VCR. Set the CH3/CH4 switch on the VCR to the same channel.

# 3

Select the channel you want to view/record at the Cable Box/DBS.

#### With this connection:

- · You may watch one channel while recording another.
- You may not record scrambled channels.



#### Connections

Connect a Cable signal to the VCR's ANT(enna) IN jack.

# 2

Use an RF coaxial cable (supplied) to connect the RF OUT jack on the VCR to the IN jack on the Cable Box/DBS.

# 3

Use a second RF coaxial cable to connect the OUT jack on the Cable Box/DBS to the TV's ANTENNA IN jack.

#### **Recording One Channel/Watching Another**

Put the Cable Box/DBS on the same channel as the VCR's CH3/CH4 switch. Set the TV to the Cable Box/DBS output channel (03 or 04).

Then, with the VCR in VCR position (the VCR light will appear on the display panel), use the CH(annel)  $\blacktriangle/\nabla$  button to select the channel you want to record at the VCR. Start the recording.

# 2

Press the VCR/TV button once to put the VCR in TV position. (The VCR light will disappear.)

### 3

Select the channel you want to watch at the Cable Box/DBS.

#### Helpful Hint

• When you play a tape, make sure the Cable Box/DBS is set to the same channel as the CH3/CH4 switch on the VCR. Set the TV to the Cable Box/DBS output channel (03 or 04).

### 10 Turning on Your VCR

Before turning on your VCR, make sure batteries are in the remote control and the VCR, TV, and Cable Box/DBS (if applicable) are connected.

# 1

Press the VCR button, then press the POWER button.



Turn on the TV. Set it to channel 3 or 4, whichever channel the CH3/CH4 switch on the back of the VCR is set to. The menu shown below will appear.

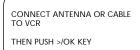


# 3

Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select the language of the on-screen displays and menus.

# 4

Press the FF ►/OK button. The menu shown below will appear.



OR . . . FOR PLAY ONLY - PUSH STOP

# 5

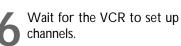
#### Press the FF ►/OK button to begin automatic channel

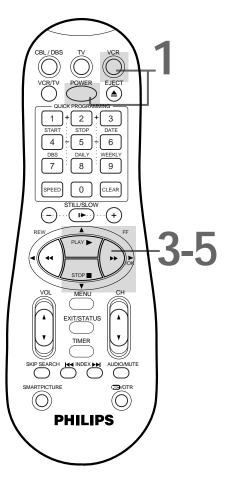
**setup.** AUTO CH. SET PROCEEDING PLEASE WAIT will appear on the screen. The VCR will memorize all of the channels you receive, so when you scan through channels using the CH(annel)  $\blacktriangle$ / $\blacksquare$  button, you'll only scan through channels that you receive.

# 6

When channels are set up, AUTO CH. SET COMPLETED will appear on the screen briefly.

Turn on the TV.





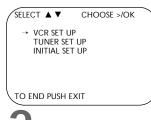
- Auto or – : – may appear on the display panel until the clock is set.
- If you do not want to set up channels now, press the STOP ▼ button at step 5. TUNER NOT SET will appear on the screen briefly.
- You may not set up channels at step 5 if you are using a Cable Box/DBS.

### Automatic Channel Setup 11

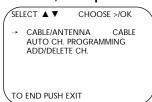
Although your VCR may automatically memorize the channels you receive when you turn it on for the first time, this function lets you set up channels again. Make each entry within one minute of the previous entry.

Wait for the VCR to set up channels.

#### Press the VCR button, then press the MENU button.



Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select TUNER SET UP, then press the FF  $\blacktriangleright$ /OK button.



# 3

Press the FF ►/OK button repeatedly so that ANT (if you have an antenna) or CABLE (if you have a cable connection) appears beside CABLE/ANTENNA.

# 4

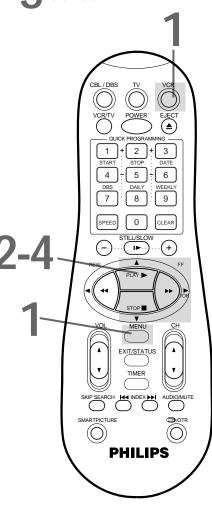
#### Press the STOP ▼ button to select AUTO CH. PRO-GRAMMING, then press the FF ►/OK button. AUTO CH.

SET PROCEEDING PLEASE WAIT and a scale that shows the progress of channel setup will appear on the screen. The VCR will memorize all the channels you receive.

# 5

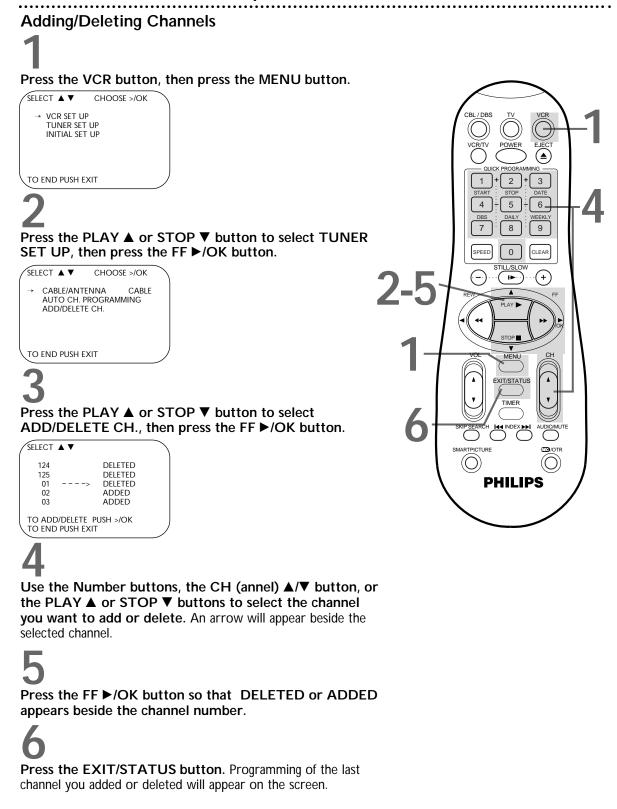
Wait for a few minutes while the VCR sets up channels. When programming is complete, AUTO CH. SET COMPLETED

will appear on the screen. Then, the programming of the lowest channel number placed in the VCR's memory will appear on the screen. Now when you press the CH(annel)  $\blacktriangle/\nabla$  button, you will scan only through channels you receive.



#### Helpful Hint

 The two Line Input modes will always be stored in the VCR's memory at channel 00. To select A/V IN FRONT or A/V IN REAR, press 0,0, then press the CH(annel) ▲/▼ button so that A/V IN FRONT or A/V IN REAR appears on the screen briefly. To exit Line Input mode, use the CH(annel) ▲/▼ button to select a channel other than 00.



### Setting the Clock 13

There are four ways to set the VCR's clock: Manually, with Time Zone Selection, with Manual PBS Channel Selection, or with Automatic PBS Channel Selection. Cable Box/DBS users must set the clock manually. Before you set the clock, make sure:

- The VCR power is on.
- The VCR light appears on the display panel. If it does not, press the VCR/TV button once.
- · Channels are set up.

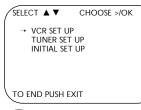
• You make each entry within one minute of the previous entry.

To set the clock manually, follow the steps on pages 13-14. To use Time Zone Selection, go to page 15. To use Manual PBS Channel Selection, go to page 16. To use Automatic PBS Channel Selection, go to page 17.

#### Manual Clock Setting

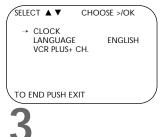
### 1

Press the VCR button, then press the MENU button.



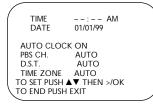


Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select INITIAL SET UP, then press the FF  $\blacktriangleright$ /OK button.



CBL / DBS ▲ 3 DATE 4 5 6 7 8 9 SPEED 0 CLEAR STILL/SLOV (+)I►·· PLAY Þ PP C⊦ MENU ٨ EXIT/STATUS TIMER UDIO/N SMARTPICTURE OTR (O)(O)PHILIPS

### Press the PLAY $\blacktriangle$ or STOP $\checkmark$ button to select CLOCK, then press the FF $\blacktriangleright$ /OK button.



#### Helpful Hints

- To program the VCR so its clock will automatically move forward one hour in April and turn back one hour in October, see page 18.
- To make corrections, follow steps 1-3, then press the FF ►/OK button until the item you want to correct is flashing. Press the PLAY ▲ or STOP ▼ button to enter the correct information. Press the EXIT/STATUS button.

Instructions continue on page 14.

# 4

Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button repeatedly to set the TIME. Every time you press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button, the time changes in one-minute increments. If you press and hold

the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button, the time changes in 30-minute increments. When the time is correct, press the FF  $\triangleright$ /OK button.

TIME 10 : 45AM DATE 01/01/99 AUTO CLOCK OFF D.S.T. ON TO SET PUSH ▲▼ THEN >/OK TO END PUSH EXIT

### 5

Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button repeatedly to set the DATE (month and day). Every time you press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button, the day changes in one-day increments. If you press and hold the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button, the day changes in 15-day increments.

When the month and day are correct, press the FF  $\blacktriangleright$ /OK button.



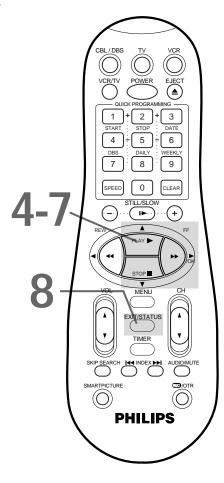


Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button repeatedly to set the YEAR. When the year is correct, press the FF  $\triangleright$ /OK button. The day of the week will appear automatically.



Press the FF ►/OK button once again to skip "AUTO CLOCK" and go to "D.S.T." (Daylight Savings Time). Press the PLAY ▲ or STOP ♥ button to set D.S.T. to ON or OFF. If AUTO CLOCK is OFF, you may set D.S.T. to ON or OFF only. For more information, please see page 18.

### **8** Press the EXIT/STATUS button.



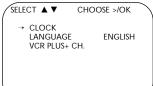
### Setting the Clock (cont'd) 15

#### **Time Zone Selection**

Press the VCR button, then press the MENU button.

### 2

Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select INITIAL SET UP, then press the FF  $\blacktriangleright$ /OK button.



### 

### 3

### Press the PLAY $\blacktriangle$ or STOP $\blacktriangledown$ button to select CLOCK, then press the FF $\blacktriangleright$ /OK button.

(If AUTO CLOCK is set to OFF, TIME ZONE will not be available in the menu. If this happens, press the FF  $\blacktriangleright$ /OK button to select AUTO CLOCK, then press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to set AUTO CLOCK to ON.)



# 4

Press the FF  $\blacktriangleright$ /OK button repeatedly to select TIME ZONE.

# 5

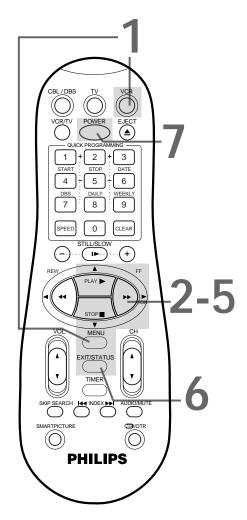
Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button repeatedly to select your Time Zone, then press the FF  $\triangleright$ /OK button.

#### 6 Press

Press the EXIT/STATUS button.

#### An on-screen message will ask you to turn off the VCR. Press the POWER button to turn off the VCR.

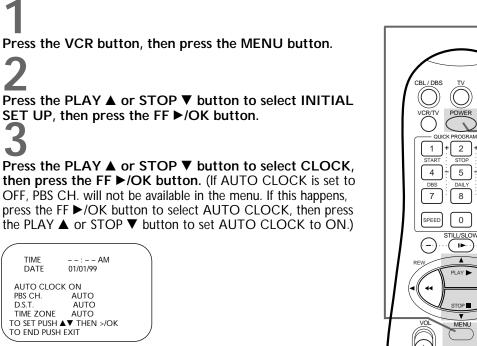
Auto will flash in the display panel until the clock is set. Leave the VCR turned off until the time appears on the display panel. If - - : - appears on the display panel after you turn off the VCR, the VCR could not find the time. Use a different method to set the clock.



- When the power plug is connected to an AC outlet, the correct time will appear on the display panel of the VCR when the power is off.
- Press the EXIT/STATUS button repeatedly to make the time appear on the display panel when the VCR power is on.

### 16 Setting the Clock (cont'd)

#### Manual PBS Channel Selection



## 4

Press the FF ►/OK button to select PBS CH.

## 5

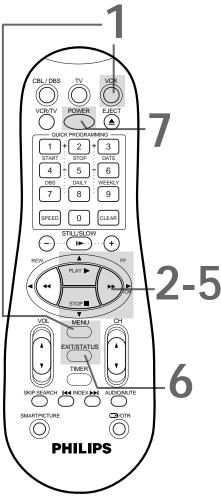
Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button repeatedly to select the station number of your PBS channel.

### **6** Press the EXIT/STATUS button.

An on-screen message will ask you to turn off the VCR. Press the POWER button to turn off the VCR.

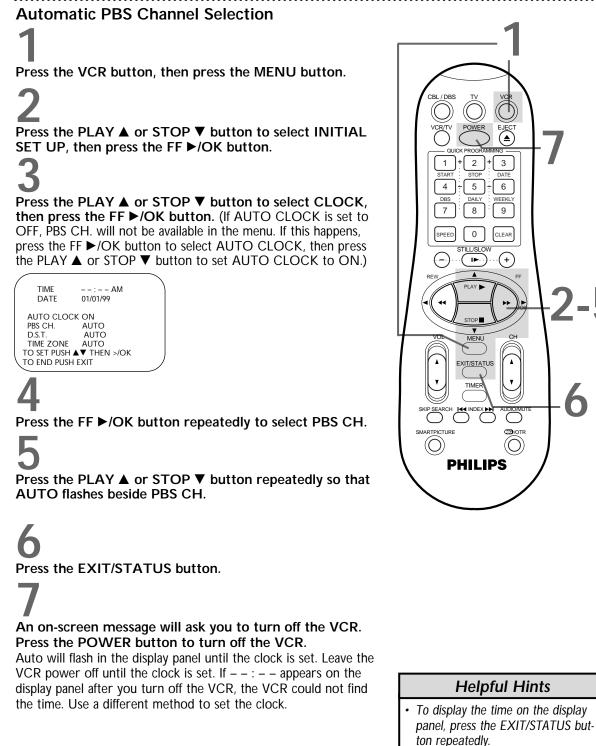
Auto will flash in the display panel until the clock is set. Leave the VCR power off until the clock is set.

If --: - appears on the display panel after you turn off the VCR, the VCR could not find the time. Repeat steps 1 - 6 above, entering a different PBS channel at step 5. Or, use a different method to set the clock.



. . . . . . . . . . . . . . . . . .

### Setting the Clock (cont'd) 17



If you live near the boundary of an adjacent time zone, your PBS channel may come from a different time zone. Use Time Zone Selection to set your clock. Details are on page 15.

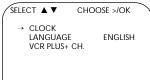
### 18 Daylight-Savings Time

Follow the steps below to program the VCR so its clock will automatically move forward one hour in April and turn back one hour in October.

Press the VCR button, then press the MENU button.

### 2 Press th

Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select INITIAL SET UP, then press the FF  $\blacktriangleright$ /OK button.



TO END PUSH EXIT

# 3

Press the PLAY ▲ or STOP ▼ button to select CLOCK, then press the FF ►/OK button. (If AUTO CLOCK is set to OFF, PBS CH. and TIME ZONE will not appear in the menu.)



# 4

Press the FF  $\blacktriangleright$ /OK button repeatedly to select D.S.T.

### Press the PLAY $\blacktriangle$ or STOP $\checkmark$ button so that ON, OFF, or AUTO appears beside D.S.T.

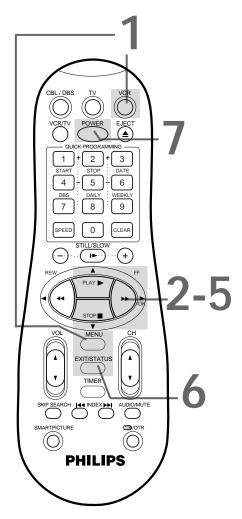
Select ON to make the clock adjust itself according to the VCR's calendar. Select OFF to turn off the feature. Select AUTO to make the clock adjust itself according to the signal it receives from the PBS channel. If AUTO CLOCK is set to OFF, you may only set D.S.T. to ON or OFF.

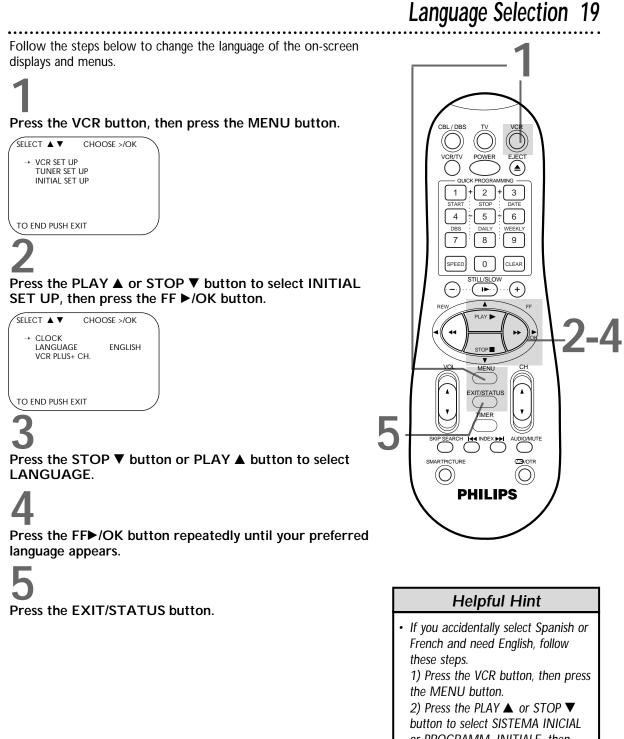
### 6 Press 1

#### Press the EXIT/STATUS button.



An on-screen message may ask you to turn off the VCR. Press the POWER button to turn off the VCR. Auto will flash in the display panel until the clock is set. Leave the VCR power off until the clock is set. If - : - appears on the display panel after you turn off the VCR, the VCR could not find the time. Use a different method to set the clock.

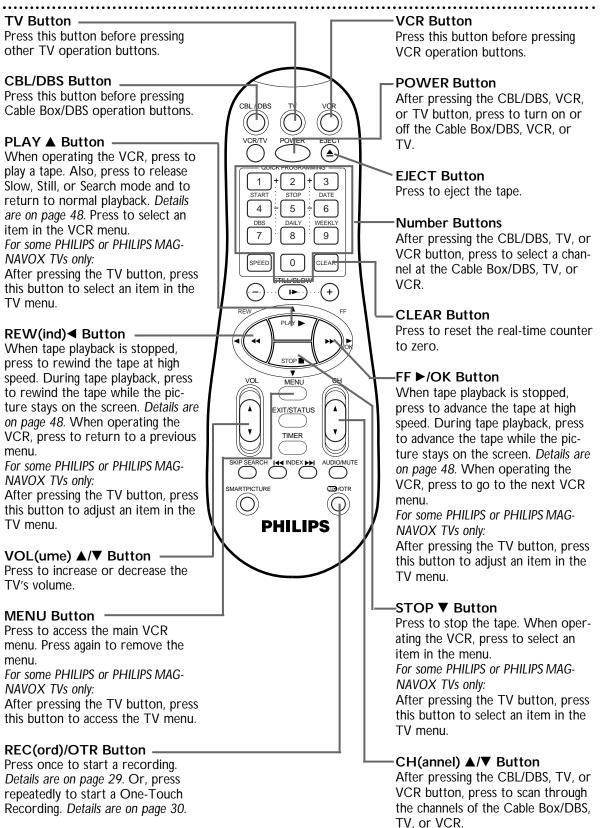




or PROGRAMM. INITIALE, then press the FF  $\blacktriangleright$  /OK button. 3) Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$ button to select LENGUAJE or LANGUE.

4) Press the FF ►/OK button repeatedly so that the English menu appears.
5) Press the EXIT/STATUS button.

### 20 Remote Control Buttons



### Remote Control Buttons (cont'd) 21

#### VCR/TV Button -

After pressing the VCR button, press this button to select the signal that your TV receives. • VCR Position

Use to watch a tape, to watch a program while recording it, or to watch a TV broadcast using the CH(annel)  $\blacktriangle / \lor$  or Number buttons to change channels at the VCR. The VCR light will appear on the display panel when the VCR is in VCR position.

#### TV Position

Use to watch TV (selecting channels at the TV) or to watch one program while recording another. *Details are on page 31.* The VCR light will not appear when the VCR is in TV position.

After pressing the TV button, press this button to select TV mode or Auxiliary mode at the TV.

#### SPEED Button

Press to select the recording speed (SP or SLP). *Details are on pages 37 and 52.* 

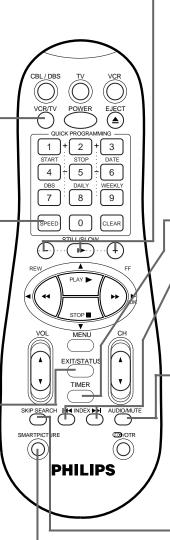
#### **EXIT/STATUS Button**

Press to exit the on-screen menus. Press to bring up the status display for five seconds. *Details are on page* 25. When tape playback is stopped, press repeatedly to see the real-time counter, the current channel, or the current time on the display panel. During tape playback, press repeatedly to see the current time or the real-time counter on the display panel.

For some PHILIPS and PHILIPS MAG-NAVOX TVs only:

Press the TV button, then press this button to access the TV on-screen displays or to exit the TV menu. For other manufacturers' TVs or Cable Box/DBS:

After pressing the TV or CBL/DBS button, the EXIT/STATUS button will function as an ENTER button at the TV or Cable Box/DBS.



#### STILL/SLOW Buttons

While recording, press ► STILL/SLOW

to temporarily stop the recording. Press a second time to resume normal recording. *Details are on page* 29. During tape playback, press STILL/SLOW once to freeze the picture. Press repeatedly to advance the Still picture frame by frame. *Details are on page 48.* During tape playback, press and hold for more than three seconds to play the tape in slow motion. *Details are on page 48.* 

#### TIMER Button

Press to access the timer recording menu. *Details are on pages 34-39.* 

#### **INDEX Buttons**

When tape playback is stopped, press to search for index codes recorded on the tape. *Details are on page 42.* 

#### AUDIO/MUTE Button

Press the TV button, then press the AUDIO/MUTE button to eliminate the TV's sound. Press again to restore the sound. Or, press the VCR button, then press the AUDIO/MUTE button to select MONO or HIFI (VRA651 only). Details are on pages 43-45.

#### **SKIP SEARCH Button**

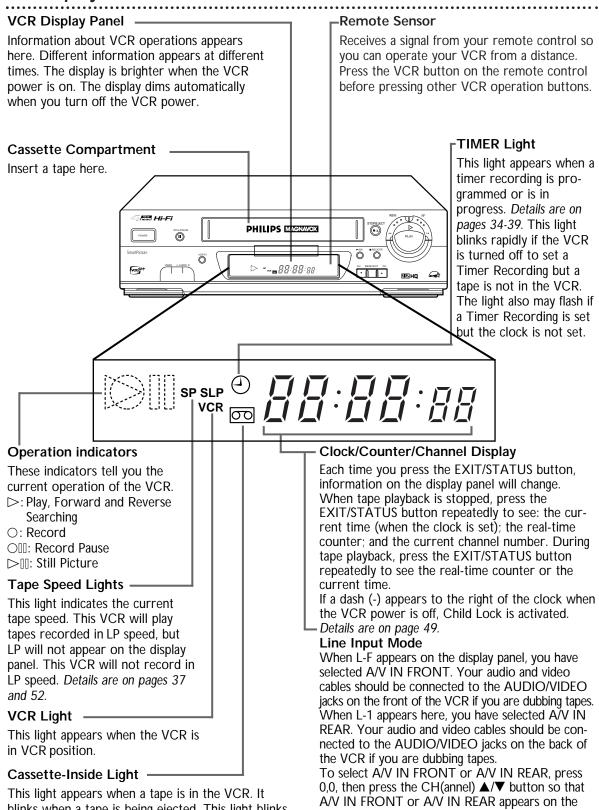
Press during tape playback to fast forward 30 seconds of a tape. This feature will only work with tape segments recorded in SP or SLP speed.

**SMARTPICTURE Button** Press to select the SmartPicture mode. *Details are on page 47*.

#### Helpful Hint

• This remote control may or may not operate your TV or Cable Box/DBS. Or, it may only work some features of this equipment. See pages 26-27 for details.

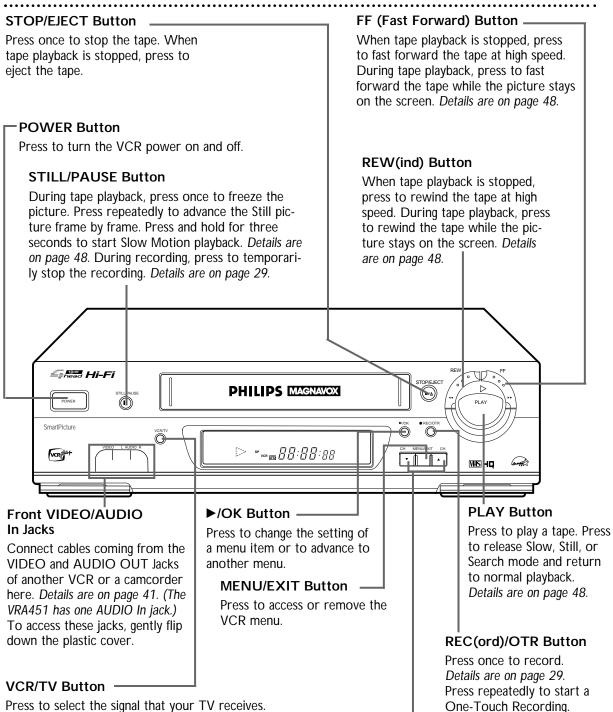
### 22 Display Panel



blinks when a tape is being ejected. This light blinks rapidly if the VCR is turned off to set a Timer Recording but there is not a tape in the VCR.

screen briefly. To exit Line Input mode, press the Number buttons or the CH(annel)  $\blacktriangle/\nabla$  button to select another channel.

### Front Panel 23



VCR Position:

Use to watch a tape, to watch a program while recording it, or to watch a TV broadcast using the CH(annel)  $\blacktriangle$ / $\checkmark$  or Number buttons to change channels at the VCR. The VCR light will appear on the display panel when the VCR is in VCR position.

#### TV Position:

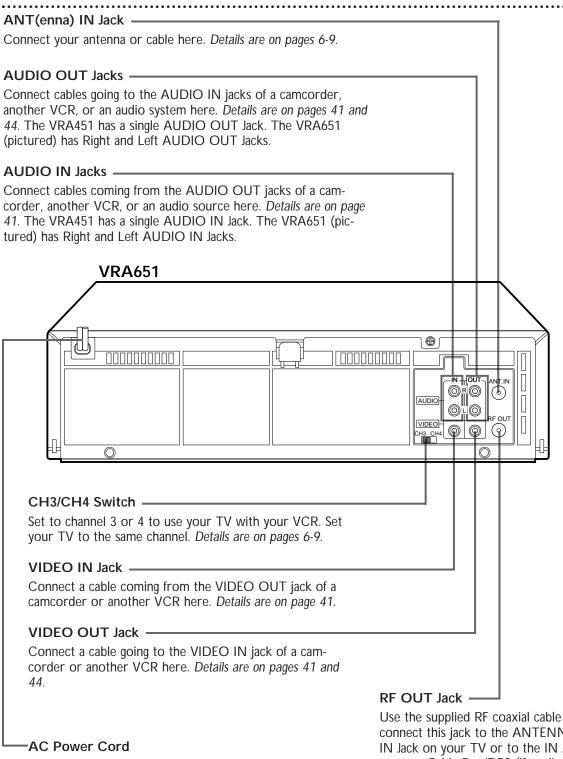
Use to watch TV or to watch one program while recording another. *Details are on page 31.* The VCR light will not appear on the display panel when the VCR is in TV position.

CH(annel) ▲/▼ Buttons

Press to scan through the VCR's channels. During tape playback, press to manually adjust the tracking. *Details are on page 51.* Press to select an item in the VCR's on-screen menu.

Details are on page 30.

### 24 Rear Panel



Connect to a wall outlet (120 V) to supply power to the VCR.

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV or to the IN Jack on your Cable Box/DBS (if applicable). Details are on pages 6-9.

### **On-Screen Status Displays 25**

An on-screen status display, which includes the current VCR operation and other information (see illustration), will appear when you press the EXIT/STATUS button or certain function buttons. The contents of the status display will vary.

#### ON SCREEN MODE ON:

Whenever you press the PLAY ▲ button or the STOP ▼ button to stop playback, some of the contents of the status display will appear for five seconds.

#### ON SCREEN MODE COUNTER:

• The real-time counter will appear on the screen during normal tape playback and when playback is stopped. Whenever you press the PLAY ▲ button or the STOP ▼ button to stop playback, some of the contents of the status display will appear for five seconds. After five seconds, only the counter will remain on the screen.

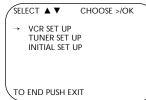
#### **ON SCREEN MODE OFF:**

• No status display will appear when you press function buttons or the EXIT/STATUS button.

To select a status display mode, follow these steps.



#### Press the VCR button, then press the MENU button.





### Press the PLAY $\blacktriangle$ or STOP $\blacktriangledown$ button to select VCR SET UP, then press the FF $\blacktriangleright$ /OK button.

SELECT ▲ ▼ CHO	OSE >/OK
→ ON SCREEN MODE BLUE BACKGROUN TIMER REC SPEED VIDEO STABILIZER AUDIO OUT STEREO/SAP	ON D ON MANUAL OFF HIFI STEREO
TO END PUSH EXIT	

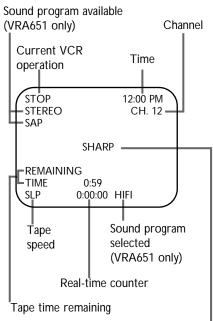
# 3

Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select ON SCREEN MODE, if necessary.

Press the FF ►/OK button repeatedly so that ON, COUNTER, or OFF appears beside ON SCREEN MODE.

#### O Press the FXIT/STAT

Press the EXIT/STATUS button.



SmartPicture setting

- If ON SCREEN MODE is set to ON or COUNTER:
- You may bring up the status display at any time by pressing the EXIT/STATUS button. (The exception is during Slow, Search, or Still mode.) The display will appear for about five seconds.
- Channel numbers (when tuned) will appear for a few seconds.
- When tape playback is stopped, press the EXIT/STATUS button repeatedly to see the current time, real-time counter, or current channel number on the display panel. During tape playback, press the EXIT/STATUS button repeatedly to see the current time or real-time counter on the display panel. The channel will not appear.
- Depending on the type of tape used, the tape time remaining may not appear right away, or may not be correct. Also, "- - : - -" may appear, or the display may flash.
- AUDIO OUT and STEREO/SAP will not appear at step 2 if you have the VRA451.

### 26 Setting the Remote Control to Operate a TV

Your VCR remote control may operate your TV. Follow these steps to set the remote control code.

# Point the remote control at your TV. Press the TV button, then press the POWER button. If your TV turns on or off, try the CH(annel) $\blacktriangle/ \triangledown$ button. If your remote control operates the TV, you're finished. If your TV doesn't turn on or off, or if the CH(annel) $\bigstar/ \triangledown$ button doesn't work, go to step 2.

### Find the brand of your TV on the list below, and remember the two-digit number beside it.

TV CODES			
EMERSON14	RCA		
LG (GOLDSTAR) 04	SAMSUNG		
HITACHI	SANYO11		
JVC	SHARP		
MAGNAVOX01, 02, 03	SONY		
MITSUBISHI	TOSHIBA		
PANASONIC	ZENITH		
PHILIPS			
PHILIPS MAGNAVOX			

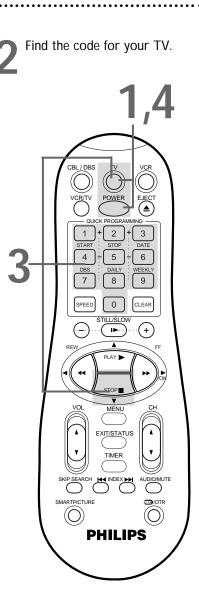
# 3

#### While you press and hold the TV button, press two Number buttons to enter the two-digit code for your TV. For example, if you have a Zenith TV, press Number buttons 1, 5. Then, still holding the TV button, press the STOP ▼ button. Your TV may turn on or off automatically.

# 4

#### Repeat step 1.

If the remote control works your TV, you're finished. If the remote control still doesn't work your TV, repeat steps 2-3, using a different code for your brand (if available).



- If you had to program the remote control to operate your TV, whenever you replace the batteries in the remote control, you will have to program the remote control again.
- There is no guarantee that the remote control will work your TV.
- The remote control may only operate some features of your TV.

### Setting the Remote Control to Operate a Cable Box/DBS 27

Your VCR remote control may operate your Cable Box/DBS. Follow these steps to set the remote control code.

#### Turn on your Cable Box/DBS.

Point the remote control at your Cable Box/DBS. Press the CBL/DBS button, then press the POWER button. If your Cable Box/DBS turns off, turn on the power again and try the CH(annel)  $\blacktriangle$  button. If the remote control operates the Cable Box/DBS, you're finished. If your Cable Box/DBS does not turn off, or if the CH(annel)  $\blacktriangle$  button doesn't work, go to step 2.

### 2

Find the brand of your Cable Box/DBS on the list below and remember the two-digit number beside it.

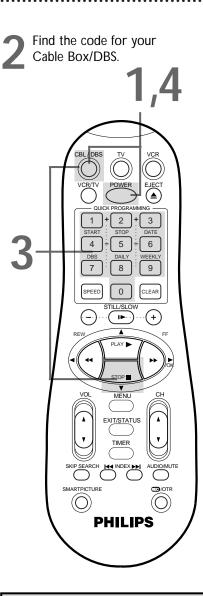
CABLE BOX/DBS CODES			
ARCHER 01, 05, 17	REGAL		
CABLETENNA 01, 17 CABLEVIEW 15, 16, 17, 21, 25	REGENCY		
CITIZEN 15, 16, 17, 21, 25	REMBRANDT01, 16, 17 SAMSUNG05, 16, 24		
CURTIS	SCIENTIFIC ATLANTA 02, 08		
DIAMOND	SIGMA		
EASTERN	SL MARX05, 16, 17, 24, 25		
GC BRAND 15, 16, 17, 21, 25	SPRUCER		
GEMINI	STARGATE05, 15, 16, 17,		
GENERAL INSTRUMENTS			
01, 04, 06, 11, 12, 15	TELEVIEW		
HAMLIN 10, 18, 19, 23	TOCOM		
JASCO	UNIKA		
JERROLD	UNIVERSAL 16, 17, 25		
01, 04, 06, 11, 12, 15	VIDEOWAY		
NOVAVISION	ZENITH		
OAK			
PANASONIC	MAGNAVOX DBS42, 43		
PULSAR15, 16, 17, 21, 25	RCA DBS		
RCA13, 14	SONY DBS		

# 3

While you press and hold the CBL/DBS button, press two Number buttons to enter the two-digit code for your Cable Box/DBS. For example, if you have a Zenith Cable Box, press Number buttons 0, 3. Then, still pressing the CBL/DBS button, press the STOP ▼ button. The Cable Box/DBS might turn off automatically.

### 4

**Repeat step 1.** If the remote control still does not work your Cable Box/DBS, repeat steps 2-3 using a different code for your brand, if available.



- If you had to program the remote control to operate your Cable Box/DBS, whenever you replace the batteries in the remote control, you must program the remote control again.
- The remote control may only operate some features of your Cable Box/DBS.
- Some Cable Boxes/DBSs can only be turned on at the Cable Box/DBS.
- There is no guarantee that the remote control will operate your Cable Box/DBS.

### 28 Playing

Read and follow the steps below to play a tape.

### 1

Turn on the TV and set it to channel 3 or 4, whichever channel the CH3/CH4 switch on the back of the VCR is set to.

# **Insert a tape in the VCR**. The power will come on. The VCR will place itself in VCR position automatically (the VCR light will appear on the display panel of the VCR). If the VCR light does not appear, press the VCR/TV button once. If the tape's record tab has been removed, playback will start automatically.

3

If playback does not start automatically, press the PLAY ▲ button. The ▷ light will appear on the VCR display panel.

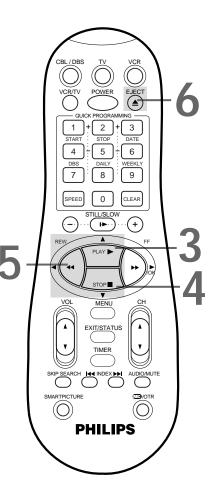
Press the STOP ▼ button to stop playback.

Press the REW(ind) I button to rewind the tape.

6

Press the EJECT button to remove the tape.





- Playback options and features are on pages 42-48 and 51.
- This VCR is equipped with SQPB (S-VHS Quasi Playback) that lets you watch tapes recorded in the S-VHS format with regular VHS resolution.
  - SQPB does not deliver Super VHS resolution.
  - S-VHS quality recording is not possible with this VCR.

### Recording 29

Read and follow the steps below to record a television program.

# 1

Turn on the TV and set it to channel 3 or 4, whichever channel the CH3/CH4 switch on the back of the VCR is set to.

### 2

**Insert a tape** with its record tab intact (details are on page 5) in the VCR. The power will come on.

# 3

Press the VCR button.

## 4

If the VCR light appears on the display panel of the VCR, go to step 5. If the VCR light does not appear, press the VCR/TV button once.

# 5

**Press the SPEED button until the desired tape speed appears on the screen.** The VCR will only record in SP or SLP. *Details about tape speed are on pages 37 and 52.* 

# 6

Use the CH(annel)  $\blacktriangle/\nabla$  button or the Number buttons to select the channel to be recorded.

# P

**Press the REC(ord)/OTR button to start recording.** The O light will appear on the VCR display panel. If no tape is in the VCR, NO CASSETTE will appear on the screen briefly.

# 8

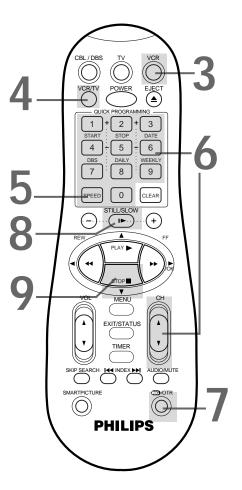
To pause the recording (for example, during commercials), press the STILL/SLOW I► button. The ○□□ light will appear on the display panel.

To resume recording, press the STILL/SLOW button again. The ○ light will appear on the display panel.

### 9

**Press the STOP** ▼ **button** to stop recording. The ○ light will disappear from the display panel.

# Turn on the TV. Insert a tape.



- If the REC(ord)/OTR button is pressed while a tape without a record tab is in the VCR, PROTECT-ED CASSETTE CANNOT RECORD will appear on the screen briefly. The VCR will eject the tape.
- The VCR records in a preset volume.
- If the end of the tape is reached while recording, the VCR will stop recording, rewind the tape, then stop. Details are on page 51.

### 30 One-Touch Recording

The One-Touch Recording (OTR) function allows you to start an immediate timed recording 30 minutes to six hours long of the channel you are watching. Before you begin, make sure:

- · Channels are set up. Details are on pages 11-12.
- The desired recording speed (SP or SLP) has been selected with the SPEED button. *Details are on pages 37 and 52.*
- There is a tape in the VCR. Make sure the tape's record tab is intact (see page 5) and the tape is long enough to record the program(s). If the end of the tape is reached during an OTR, recording will stop. The VCR will eject the tape and turn itself off.
- The VCR is in VCR position. (The VCR light will appear on the display panel of the VCR when the VCR is in VCR position. If the VCR light does not appear, press the VCR/TV button once.)

#### Starting an OTR

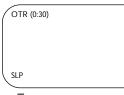
#### Press the VCR button.

# 2

Use the CH(annel)  $\blacktriangle/\nabla$  button or the Number buttons to select the channel you want to record.

### 3

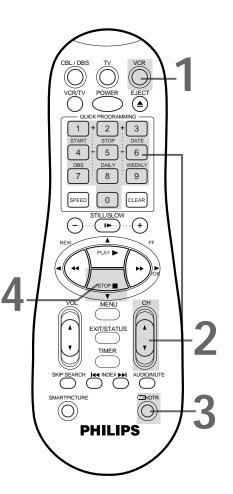
Press the REC(ord)/OTR button repeatedly until the desired recording length appears briefly on the screen and on the display panel. The  $\bigcirc$  light will flash on the display panel. (The recording length will not appear on the screen if ON SCREEN MODE is set to OFF.)



# 4

To stop an OTR before recording is finished, press the STOP  $\blacktriangledown$  button.

To cancel the OTR but continue recording, press the REC(ord)/OTR button repeatedly until REC appears in the upper left corner of the TV screen. (ON SCREEN MODE cannot be set to OFF. *Details are on page 25.*) The  $\bigcirc$  light will remain on the display panel.



- To check the time remaining for an OTR after the OTR is in progress, press the EXIT/STATUS button. The remaining time will appear on the screen. (The recording length will not appear on the screen if ON SCREEN MODE is set to OFF.)
- To change the recording length while an OTR is in progress, press the REC(ord)/OTR button until the desired length appears on the VCR display panel. The desired length also will appear on the screen if ON SCREEN MODE is set to ON or COUNTER.
- If the preset time for a timer record ing comes up during an OTR, the OTR has priority.

### Recording One Channel/Watching Another 31

### Press the VCR button.

# 2

Press the REC(ord)/OTR button to start a recording of the current channel. Details are on page 29.

# 3

**Press the VCR/TV button to put the VCR in TV position.** The VCR light will disappear from the display panel.

# 4

Use the TV remote control to select the channel you want to watch at the TV. Or, if the VCR remote control operates your TV, press the TV button, then use the CH(annel)  $\blacktriangle/\nabla$  button to select the channel you want to watch at the TV.

The channel selected with the TV controls will appear on the screen while the channel you previously selected to record is being recorded. (The  $\bigcirc$  light will appear on the display panel.)

# 5

To return to the channel being recorded, use the TV remote control to select channel 03 or 04 (whichever channel the CH3/CH4 switch on the back of the VCR is set to). Or, if the VCR remote control operates your TV, press the TV button, then use the CH(annel)  $\blacktriangle$  button to select channel 03 or 04.

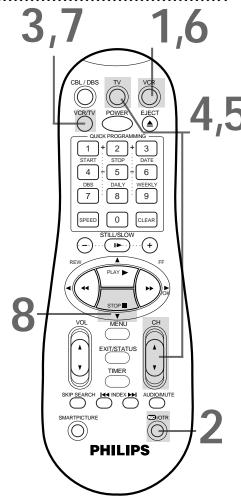
### 6 Press the VCR button.

### 7

**Press the VCR/TV button to put the VCR in VCR position.** (The VCR light will appear on the display panel.) The channel being recorded will appear on the screen.

# 8

To stop the recording, press the STOP  $\blacksquare$  button.



#### Helpful Hint

 If you use a Cable Box/DBS, you may not be able to watch one channel while recording another. See pages 8-9 for details. First, fill in the boxes on this page. It will only take a few minutes, and you must do it if you want the VCR Plus+ programming system to work properly.

Since the channel numbers of the stations you receive may not be the same as the station numbers, and since channel numbers differ from area to area, you must program the VCR with your local channel information. To fill in the boxes, you will need 1) a cable channel list, if applicable (you can request one from your cable company), and 2) a chart that lists VCR Plus+ channel numbers, which you can find in your TV guide or the TV listings of your local newspaper.

NOTE: If you are using a Cable Box/DBS, the Cable/TV channel must be 03 or 04 (the Cable Box/DBS output channel) for every VCR Plus+ channel.

Channels		Channels			
Station Call Letters	VCR PLUS+ CH.	CABLE/TV CH.	Station Call Letters	VCR PLUS+ CH.	CABLE/TV CH.

# 2

Now, compare the channel numbers you have written into the VCR PLUS+ CH. and CABLE/TV CH. columns. You'll notice that some stations have VCR Plus+ and Cable/TV channel numbers that are the same, and other stations have channel numbers that do not match. You must tell the VCR the VCR Plus+ and Cable/TV channel numbers according to the following steps.

# 3

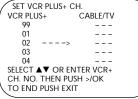
Press the VCR button, then press the MENU button.

# 4

Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select INITIAL SET UP, then press the FF  $\blacktriangleright$ /OK button.

# 5

Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select VCR PLUS+ CH., then press the FF  $\blacktriangleright$ /OK button.



# 6

While a VCR Plus+ channel is flashing, press the PLAY ▲ or STOP ▼ button repeatedly or press the Number buttons so that the arrow appears beside the VCR Plus+ channel number you need. Press the FF ►/OK button

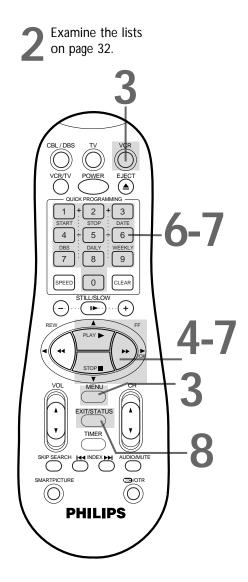
Press the FF ►/OK button.

# 7

While the space for the Cable/TV channel is flashing, press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button repeatedly or press the Number buttons to enter the Cable/TV channel number from the list on page 32. Press the FF  $\triangleright$ /OK button. Repeat steps 6-7 until you have entered all the channels on your list.

If you are using a Cable Box/DBS, the Cable/TV channel will be 3 or 4 (the Cable Box/DBS output channel) for every VCR Plus+ channel. You must set the Cable Box/DBS to the channel you want to record; leave the Cable Box/DBS on for the timer recording.





### 34 Timer Recording with the VCR Plus+ Programming System

Follow the steps below to program a timer recording using PlusCode programming numbers. Before you begin make sure:

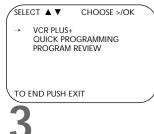
- Channels are set up. Details are on pages 11-12.
- The clock is set. Details are on pages 13-17.
- There is a tape in the VCR. Make sure the tape's record tab is intact and the tape is long enough to record the program(s).
- The VCR is in VCR position (the VCR light will appear on the display panel). If the VCR light does not appear, press the VCR/TV button once.
- You have programmed the VCR Plus+ and Cable/TV channel numbers. *Details are on pages 32-33.*

Complete each step within 60 seconds of completing the previous step. If you don't, you may start again at step 1.

# 1

Press the VCR button.

#### Press the TIMER button.



Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select VCR PLUS+, then press the FF  $\blacktriangleright$ /OK button.



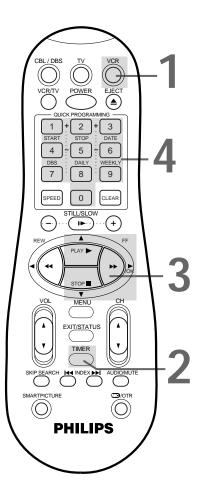
# 4

Use the Number buttons to enter the PlusCode programming number of the program you wish to record. (This number is different for every program.)

VCR PLUS+ PRO	DG. CODE
VCR PLUS+	1234
TO SET PUSH > TO CORRECT I TO END PUSH	PUSH CLEAR

### Helpful Hint

 If you enter an incorrect PlusCode programming number at step 4, ERROR-RE-ENTER CODE will flash on the screen after step 5. Enter the correct PlusCode programming number.



### Timer Recording with the VCR Plus+ Programming System (cont'd) 35

# 5

**Press the FF**  $\triangleright$ **/OK button.** If the VCR PLUS+ and CABLE/TV channel lists appear on the screen, the CABLE/TV channel has not been set for the VCR PLUS+ channel of the program you have set in step 4. Press the Number buttons to enter the CABLE/TV channel number from your list on page 32, then press the FF  $\triangleright$ /OK button.

# 6

- If you want to record the program one time only, go to step 7. You also may press the Number 8/DAILY or Number 9/WEEKLY button repeatedly to select a ONE TIME PROGRAM.
- If you want to record the program daily, press the Number 8/DAILY button so that DAILY PROGRAM appears at the top of the screen. The VCR will record a program every day from Monday through Friday, starting at the same time and recording for the same length of time.
- If you want to record the program every week, press the Number 9/WEEKLY button so that WEEKLY PRO-GRAM appears at the top of the screen. The VCR will record a program on the same day, at the same time, for the same length of time every week.



# Pre

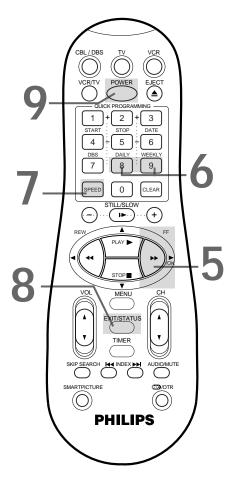
**Press the SPEED button to select the tape speed.** The selected tape speed, SP or SLP, will appear beside REC SPEED.

# 8

**Press the EXIT/STATUS button.** PROGRAM WAS COM-PLETED/PLEASE TURN OFF VCR FOR TIMER RECORDING should appear on the screen. (If PROGRAM NOT COMPLETED appears, begin again from step 1.) After five seconds, the onscreen display will disappear.

Press the POWER button to turn off the VCR. The VCR must be turned off for a timer recording to take place. The ④ light will appear on the display panel. The ④ light and the Cassette-Inside light will flash when you turn off the VCR if there is not a tape in the VCR.

Turn off the VCR for a timer recording! Put a tape in the VCR. Leave the Cable Box/DBS on.



- Do not select DAILY at step 6 if the VCR Plus+ recording you chose is on a Saturday or Sunday. The recording will not occur, even though the VCR may accept the way you programmed the recording.
- To exit the VCR Plus+ programming system at any step, press the EXIT/STATUS button.
- PROGRAM NOT COMPLETED/ CLASH may appear on the screen for five seconds at step 8 if the timer recording you programmed overlaps another timer recording. To cancel the overlapping timer recording, follow the steps on page 39.
- If you want to check your timer recordings, follow the steps on page 39.

### 36 Quick Programming

Follow the steps below to program your VCR to record TV programs while you're away from home. The VCR will turn itself on, record, and turn itself off automatically.

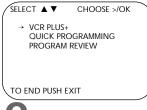
Before you begin make sure:

- Channels are programmed. Details are on pages 11-12.
- The clock is set. Details are on pages 13-17. If the clock is not set, CLOCK MUST BE SET appears on the screen, followed by the menu.
- There is a tape in the VCR. Make sure the tape's record tab is intact and the tape is long enough to record the program(s).
- The VCR is in VCR position. The VCR light will appear on the display panel when the VCR is in VCR position. If the VCR light does not appear, press the VCR/TV button once.
- When you use a Cable Box/DBS, timer recordings are programmed differently. Read pages 8-9 before proceeding.

Complete each step within 60 seconds of the previous step.



Press the VCR button, then press the TIMER button.



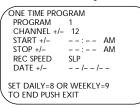


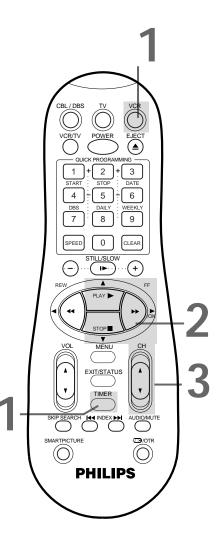
Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select QUICK PROGRAMMING, then press the FF  $\blacktriangleright$ /OK button.



# Press the CH(annel) ▲/▼ button to enter the channel you want to record.

- If you are using a standard antenna or cable to VCR to TV hookup (as shown on pages 6-7), enter the channel of the TV program you want to record.
- If you are using a Cable Box/DBS, enter the Cable Box/DBS output channel (03 or 04). Set the Cable Box/DBS to the channel you want to record and leave the Cable Box/DBS on for a timer recording.





## Quick Programming (cont'd) 37

## 4

**Press the Number 1/START + or Number 4/START – button to set the recording's start time.** Every time you press a button, the start time changes in one-minute increments. If you press and hold a button, the start time changes in 30-minute increments.

ONE TIME PROGRAM           PROGRAM         1           CHANNEL +/-         12           START +/-         08 : 00 PM           STOP +/-         : AM           REC SPEED         SLP           DATE +/-         /				
CHANNEL +/- 12 START +/- 08 : 00 PM STOP +/: - AM REC SPEED SLP DATE +//				
START +/-         08 : 00         PM           STOP +/-         -         -         -           REC SPEED         SLP         DATE +/-         -         -				
STOP +/ : AM REC SPEED SLP DATE +/ / /				
REC SPEED SLP DATE +/ / /				
DATE +/ / /				
SET DAILY=8 OR WEEKLY=9				
TO END PUSH EXIT				



**Press the Number 2/STOP+ or Number 5/STOP- button to set the recording's stop time.** Every time you press a button, the stop time changes in one-minute increments. If you press and hold a button, the stop time changes in 30-minute increments.



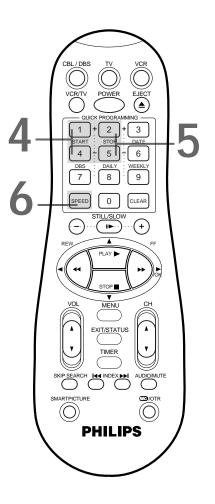


Press the SPEED button to select the tape speed (SP or SLP). Details about tape speed are given below.



Instructions continue on page 38.

Tape Speeds		Cassette ty	ype / Playba	ck Time
This chart shows the recording/playback time for	Tape Speed	T160	T120	T60
	SP (standard play)	2 hrs.	2 hrs.	1 hr.
		40 mins.	Z 1115.	1 111 .
will play tapes recorded in LP, but LP will not	LP (long play)	5 hrs.	4 hrs.	2 hrs.
appear on the display panel. This VCR will record	(playback only)	20 mins.	4 111 5.	2 111 5.
only in SP and SLP.	SLP (super long play)	8 hrs.	6 hrs.	3 hrs.



## 38 Quick Programming (cont'd)

#### Press the Number 3/DATE+ or Number 6/DATE- button

to set the recording date. Every time you press a button, the date changes in one-day increments. If you press and hold a button, the date changes quickly. The day of the week will appear automatically. (You cannot program the VCR to record more than one year in advance.)

one year in	auvance.)
ONE TIME PROC	GRAM
PROGRAM	1
CHANNEL +/-	12
START +/-	08:00 PM
STOP +/-	10:00 PM
REC SPEED	SLP
DATE +/-	07/31/99
	SATURDAY
SET DAILY=8 OF	₹ WEEKLY=9
TO END PUSH E	XIT

## 8

- If you want to record the program one time only, go to step 9. You may also press the Number 8/DAILY or Number 9/WEEKLY button repeatedly to select a ONE TIME PROGRAM.
- If you want to record the program daily, press the Number 8/DAILY button so that DAILY PROGRAM appears at the top of the screen. The VCR will record a program every day from Monday through Friday, starting at the same time and recording for the same length of time.
- If you want to record the program every week, press the Number 9/WEEKLY button so that WEEKLY PRO-GRAM appears at the top of the screen. The VCR will record a program on the same day at the same time and for the same length of time every week.

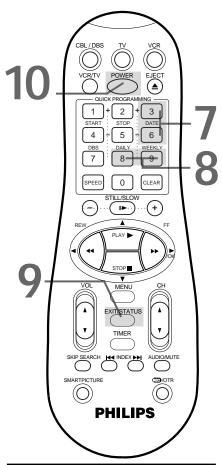
DAILY PROGRAM (MON-FRI)				
PROGRAM	1			
CHANNEL +/-	12			
START +/-	08:00 PM			
STOP +/-	10:00 PM			
REC SPEED	SLP			
DATE +/-	07/31/99			
	SATURDAY			
SET DAILY=8 OF	R WEEKLY=9			
TO END PUSH E	XIT			

## 9

**Press the EXIT/STATUS button.** PROGRAM WAS COM-PLETED/PLEASE TURN OFF VCR FOR TIMER RECORDING will appear on the screen. If PROGRAM NOT COMPLETED appears, try again from step 1.

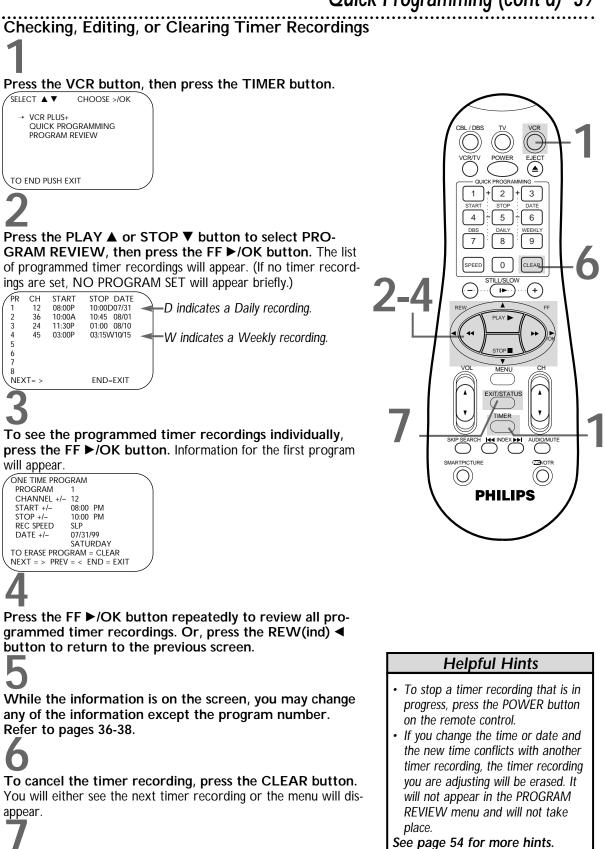
## 10

**Press the POWER button to turn off the VCR**. The *O* light will appear on the display panel. (The *O* light and the Cassette-Inside light will flash when you turn off the VCR if there is not a tape in the VCR.) The VCR must be turned off for a timer recording to take place. Leave the Cable Box/DBS on, if applicable.



- If you leave the VCR on past the scheduled start time of a timer recording, you will not be asked again to turn off the VCR. The VCR might store the recording for the same time and day in the next year. Or, the VCR may start recording when you turn off the VCR power.
- If the end of the tape is reached during a timer recording, recording will stop. The VCR will eject the tape, then turn itself off.
- If PROGRAM NOT COMPLETED/ CLASH appears at step 9, the timer recording you just programmed overlaps another timer recording. The timer recording you just programmed will not take place. The timer recording menu will reappear. To cancel a timer recording, see page 39.
- If you forget to turn off the VCR, PLEASE TURN OFF VCR FOR TIMER RECORDING flashes on your TV screen two minutes before a timer recording starts. To remove the message, press the CLEAR button.

## Quick Programming (cont'd) 39



When all programmed timer recordings have been displayed, the menu will disappear. Or, press the EXIT/STA-

TUS button to remove the menu.

## 40 Timer Recording Speed Setting

If a program is recording in SP and there is not enough tape to record the entire program, the VCR automatically switches to SLP to allow complete recording if TIMER REC SPEED is set to AUTO. This feature is especially useful when you set a timer recording for a program that is more than two hours long. For example, when you record a program of 140 minutes in length onto a 120-minute tape, the program is recorded in SP for about 110 minutes and in SLP for about 30 minutes.

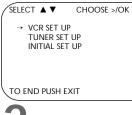
Approximately 110 minutes App	roximately 30 minutes
-------------------------------	-----------------------

SP	SLP

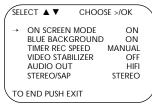
Follow the steps below to set TIMER REC SPEED to AUTO.



Press the VCR button, then press the MENU button.

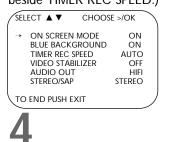


Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select VCR SET UP, then press the FF  $\blacktriangleright$ /OK button.

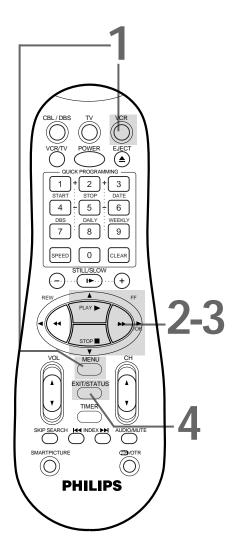




Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select TIMER REC SPEED, then press the FF  $\blacktriangleright$ /OK button so that AUTO appears beside TIMER REC SPEED. (To turn off this feature, press the FF  $\triangleright$ /OK button so that MANUAL appears beside TIMER REC SPEED.)



Press the EXIT/STATUS button.



#### Helpful Hints

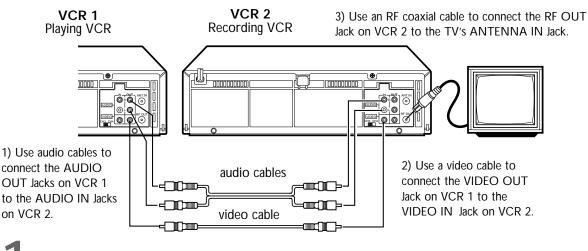
• Some distortion may appear on the

tape when the tape speed changes. • AUDIO OUT and STEREO/SAP will not appear in the VCR SET UP

menu if you have the VRA451.

## Rerecording (Tape Duplication) 41

The instructions on this page show you how to copy tapes. The illustration uses two VRA651 VCRs. Different VCRs may operate differently. To duplicate a tape, make the connections shown, then follow steps 1-6. (You may use the AUDIO and VIDEO In jacks on the front of VCR 2 instead if you prefer.)



## 1

VCR 1 will play your tape. **Insert a prerecorded tape in VCR 1.** If the tape does not have a record tab, playback begins. If this happens, press the STOP/EJECT button on VCR 1 once.

## 2

VCR 2 will record your tape. Insert a blank tape in VCR 2. Make sure the VCR power is on and the VCR is in VCR position. (The VCR light will appear on the display panel. If it does not, press the VCR/TV button once.)

## 3

Turn on the TV; set it to channel 3 or 4, whichever channel the CH3/CH4 switch on VCR 2 is set to.

## 4

Point the remote control at VCR 2. Press the VCR button, then press the Number buttons 0, 0. Press the CH(annel)  $\blacktriangle/\nabla$  button so that A/V IN FRONT or A/V IN REAR appears on the screen.

## 5

Point the remote control at VCR 2. Press the SPEED button to select SP or SLP.

## 6

**Press the PLAY button on VCR 1 and the REC(ord)/OTR button on VCR 2 at the same time.** The  $\bigcirc$  light will appear on the VCR 2 display panel.

- Unauthorized recording of copyrighted television programs, video tapes, or other materials may infringe on the rights of copyright owners and violate copyright laws.
- If a program has copy guard protection, it may not record clearly.
- Audio and video cables are not included.
- The VCR in the figure above is the VRA651. If you have the VRA451, use a single-plug (monaural) audio cable to connect the AUDIO OUT Jack on VCR 1 to the AUDIO IN Jack on VCR 2.
- To stop copying tapes, press the STOP/EJECT button on VCR 2, then press the STOP/EJECT button on VCR 1.
- If you connect the audio and video cables to the AUDIO/VIDEO In jacks on the front of VCR 2, you must select A/V IN FRONT at step 4. If you connect the audio and video cables to the AUDIO/VIDEO IN jacks on the back of VCR 2, you must select A/V IN REAR at step 4.

## 42 Index Search

When you make a recording, the VCR automatically places an index code at the beginning of the recording. Essentially, an index code is a type of "bookmark" for your tape. This feature is useful if you have several different programs recorded on a single tape.

Fast forward or rewind to the next or previous index code on the tape by following the steps below.

#### Press the VCR button.

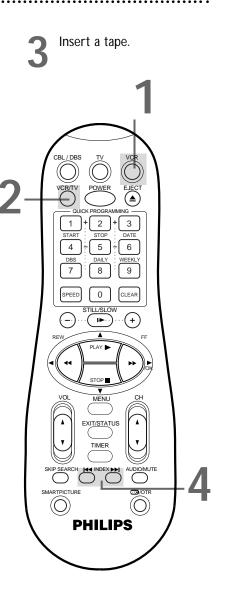
Make sure the VCR is in VCR position. (The VCR light will appear on the display panel when the VCR is in VCR position.) If the VCR light does not appear, press the VCR/TV button once.

## 5

Insert a tape in the VCR.

4

Press the INDEX ►►I button to fast forward to the next index code on the tape. Or, press the INDEX Idd button to rewind to the previous index code on the tape. Wait for the VCR to fast forward or rewind the tape. When the index code is reached, tape playback will begin automatically. NOTE: You may press an INDEX button repeatedly to skip over multiple recordings. For example, if you want to fast forward past four recordings, press the INDEX ►►I button four times. INDEX 4 will appear in the bottom right corner of the screen. The index codes will count down on the screen as the search progresses. (ON SCREEN MODE can not be set to OFF. Details are on page 25.)



- To stop an Index Search that is in progress, press the STOP ▼ button.
- The VCR does not place an index code at the point where a recording is paused, then resumed.
- INDEX may flash on the screen briefly when you begin a recording.

The VRA651 can receive and record programs broadcast in stereo or second audio. It can also play back tapes recorded in stereo or second audio.

These features are not available with the VRA451.

- Second Audio You can program your VCR so you can hear a program that is being broadcast in second audio or a tape that was recorded in second audio. A second audio broadcast is usually a program in a second language. Follow the steps on page 44 to receive or record this type of program.
- **Hi-Fi Stereo Playback** If a tape is recorded in stereo, you can program your VCR to play a tape in Hi-Fi (high fidelity) stereo. Follow the steps on page 45.
- **Hi-Fi Stereo Recording** If a TV program is broadcast in stereo, you can program your VCR to receive and record the program in Hi-Fi stereo. You must program the VCR and make the appropriate stereo hookups. Follow the steps on page 44. To playback this type of program, follow the steps on page 45.

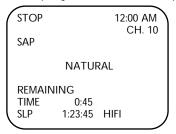
#### **Receiving a Stereo Broadcast**

When a TV program is being broadcast in stereo, STEREO will appear in the on-screen status display. You still have to program your VCR to receive and record the stereo broadcast. Follow the steps on page 44.

STOP STEREC	)	12:00 AM CH. 10			
NATURAL					
REMAINING TIME 0:45					
SLP	1:23:45				

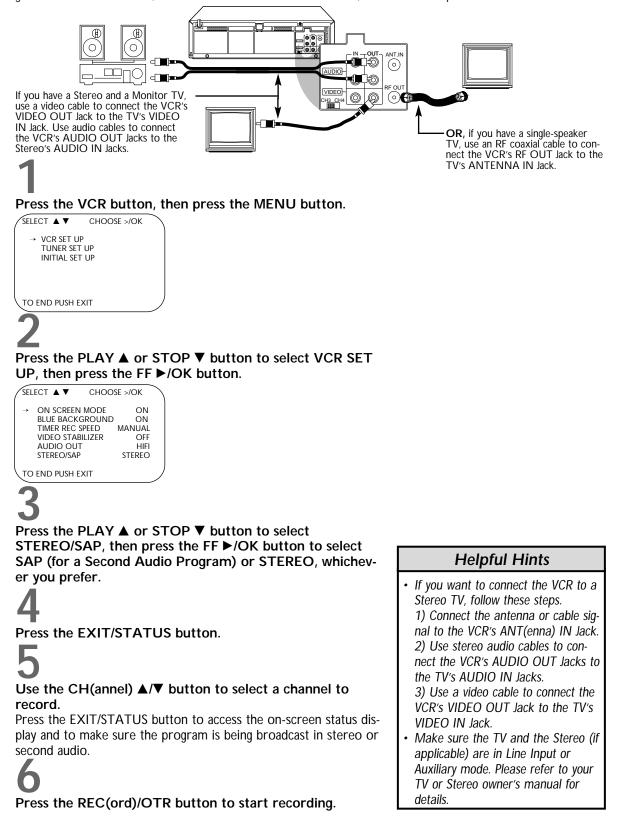
#### **Receiving a Second Audio Program**

If a program is being broadcast in second audio, SAP (Second Audio Program) will appear in the on-screen status display. You still have to program your VCR to receive and record the second audio program. Follow the steps on page 44.



## 44 Multi-Channel Television Sound System (VRA651 only) (cont'd)

To receive and record programs broadcast in second audio, follow steps 1-6. To receive and record a program broadcast in stereo, make one of the connections shown, then follow steps 1-6.

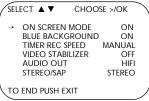


## Hi-Fi Stereo Tape Playback (VRA651 only) 45

If a tape is recorded in Hi-Fi stereo, follow the steps below to play the tape in Hi-Fi stereo.

### Press the VCR button, then press the MENU button. SELECT ▲▼ CHOOSE >/OK → VCR SET UP TUNER SET UP INITIAL SET UP TO END PUSH EXIT

Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select VCR SET UP, then press the FF  $\blacktriangleright$ /OK button.



## 3

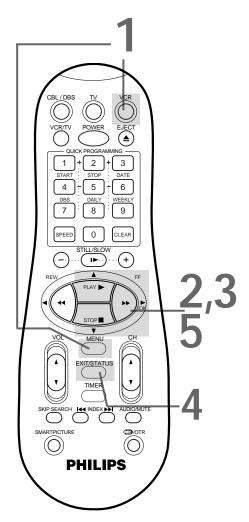
Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select AUDIO OUT, then press the FF  $\triangleright$ /OK button so that HIFI appears beside AUDIO OUT.

## 4

Press the EXIT/STATUS button.

## 5

Press the PLAY ▲ button to start tape playback.



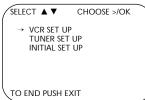
- During playback, Hi-Fi stereo may temporarily revert to normal audio when you adjust tracking. This is normal.
- If Hi-Fi stereo continually reverts to normal audio during playback, you may want to press the FF ► /OK button to select MONO at step 3.
- Only tapes recorded in Hi-Fi stereo will play in Hi-Fi stereo. Tapes recorded in normal audio will play in normal audio.
- You may also select HIFI or MONO by pressing the VCR button, then repeatedly pressing the AUDIO/MUTE button on the remote control.

## 46 Video Stabilizer

You can correct vertical vibration when playing back tapes. When VIDEO STABILIZER is set to ON, vertical vibration will be corrected automatically. VIDEO STABILIZER is set to OFF when you receive the VCR.

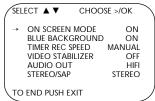
Follow the steps below to set VIDEO STABILIZER to ON.

#### Press the VCR button, then press the MENU button.



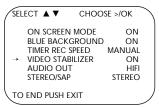


Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select VCR SET UP, then press the FF  $\blacktriangleright$ /OK button.

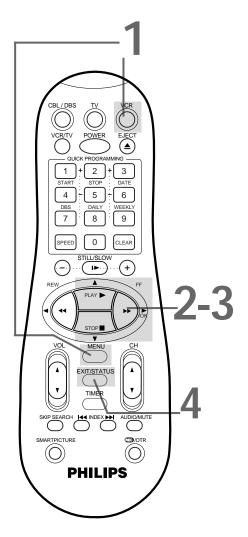




Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select VIDEO STABILIZER, then press the FF  $\blacktriangleright$ /OK button so that ON appears beside VIDEO STABILIZER.



Press the EXIT/STATUS button.



- Regardless of the setting, this feature has no effect during recording, and during special effects playback.
- To set VIDEO STABILIZER to OFF, follow steps 1-2 above. At step 3, press the FF ► /OK button so that OFF appears beside VIDEO STABI-LIZER. Press the EXIT/STATUS button.
- AUDIO OUT and STEREO/SAP will not appear in the VCR SET UP menu if you have the VRA451.

You can make the tape playback picture softer, sharper, more natural, or more distinct by adjusting the SmartPicture setting. SmartPicture is set to NATURAL when you receive the VCR. Follow the steps below to adjust the SmartPicture setting.

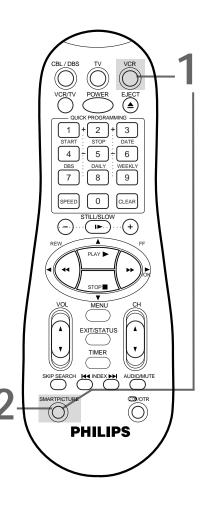
## 1

Press the VCR button, then press the SMARTPICTURE button. The current setting will appear on the screen for about five seconds.



While the setting appears, press the SMARTPICTURE button repeatedly to choose DISTINCT, SOFT, SHARP, or NATURAL.

- NATURAL: This is generally the preferred setting. DISTINCT: Choose to emphasize details in the picture. Choose DISTINCT when you use this VCR as the player (VCR 1) during tape duplication. Details are on page 41.
- SOFT:Choose to soften the picture.SHARP:Choose to emphasize the edge of the picture.



## 48 Playback Options

#### Forward and Reverse Searching

During tape playback, press and release the FF ►/OK button or the REW(ind) ◄ button. A fast forward or reverse picture search will begin.

## 2

To return to playback, press the PLAY ▲ button.

#### Viewing a Still Picture

During tape playback, press the STILL/SLOW I► button. A still picture will appear on the screen.

## 2

To advance the still picture frame by frame, press the STILL/SLOW I► button repeatedly.

## 3

To return to playback, press the PLAY ▲ button. Viewing a Slow Motion Picture

## 1

During tape playback, press and hold the STILL/SLOW button for three seconds. The tape will play in slow motion.

#### **2** Durir

During slow motion playback, press the STILL/SLOW - button once to slow the speed of slow motion playback. Press the STILL/SLOW - button again; the tape will play in reverse slow motion. During slow motion playback, press the STILL/SLOW + button to quicken the slow motion playback or to change from reverse slow motion playback to forward slow motion playback.

#### **5** To return to normal playback, press the PLAY ▲ button. Repeat Playback

# **Press and hold the PLAY** $\blacktriangleright$ **button until the** $\triangleright$ **light flashes on the display panel.** Now, when a tape has finished playing, the VCR will rewind it and start playback again. The VCR will play the tape 50 times. The $\triangleright$ light on the display panel will flash during tape playback and while rewinding. TV programming will appear while the tape is rewinding.

Repeat Playback will be cancelled if you press the STOP  $\checkmark$ , STILL/SLOW  $\blacktriangleright$ , FF  $\blacktriangleright$ /OK, or REW(ind) $\triangleleft$  buttons.



- During Search, Slow, and Still modes, there will be no sound.
- Slow and Still modes automatically switch to Stop mode after five minutes to protect the VCR and the tape from damage.
- During Forward or Reverse Searching, noise bars will appear on the screen.
- You may only view a tape in Slow Motion if the tape is recorded in SP or SLP speed.
- You may press and hold the FF ►/OK button or the REW(ind) < button for a fast forward or reverse picture search. When you release the button, normal playback will resume.

The Child Lock feature disables the buttons on the VCR and remote control.

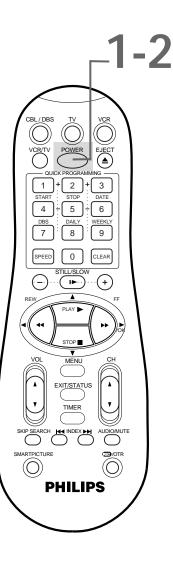
#### When the VCR is on, press and hold the POWER button on the remote control for more than seven seconds until a dash (-) appears to the right of the clock on the display panel. The power will turn off.

#### When Child Lock is activated...

- The dash (-) will appear on the display panel.
- The remote control will still operate your TV or Cable Box/DBS if you have set it to do so. Details are on pages 26-27.
- The VCR power will not come on automatically if you insert a tape.
- Timer recordings will take place as scheduled. Make sure a tape is in the VCR. Make sure the VCR power is off before the recording's scheduled start time. The dash (-) will reappear on the display panel when the timer recording is finished.
- If you press the POWER button on the VCR to stop a timer recording that is in progress, recording will stop and Child Lock will be reactivated immediately. Pressing the POWER button on the remote control will not affect the timer recording.



To cancel Child Lock, press and hold the POWER button on the remote control for more than seven seconds until the VCR power comes on. The dash (-) will disappear from the display panel.



#### Helpful Hint

 If you lose your remote control when Child Lock is on, contact Philips.

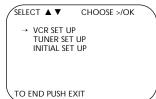
## 50 Blue Background

If you want the TV screen to be solid blue when a weak signal is received, set BLUE BACKGROUND to ON. The screen will be blue and the sound will be muted. Or, if you want to receive the weak signal, set BLUE BACKGROUND to OFF. When you select a channel that is receiving a weak signal, you will see and hear the static in the TV programming.

When you receive your VCR, BLUE BACKGROUND is set to ON. To set BLUE BACKGROUND to ON or OFF, follow these steps.



Press the VCR button, then press the MENU button.





Press the PLAY  $\blacktriangle$  or STOP  $\blacktriangledown$  button to select VCR SET UP, then press the FF  $\blacktriangleright$ /OK button.

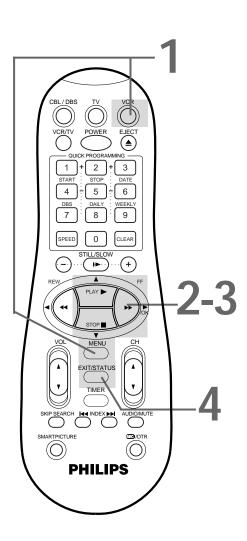
SEL	ECT 🔺 🛡	CHOOS	SE >/OK	
$\rightarrow$			ON	
	BLUE BACKGE TIMER REC SP		ON MANUAL	
	VIDEO STABIL	IZER	OFF	
	AUDIO OUT		HIFI	
	STEREO/SAP		STEREO	
∖то	END PUSH EX	IT		/

## 3

Press the PLAY  $\blacktriangle$  or STOP  $\checkmark$  button to select BLUE BACKGROUND, then press the FF  $\triangleright$ /OK repeatedly so that ON or OFF appears beside BLUE BACKGROUND.

## 4

Press the EXIT/STATUS button.



#### **Automatic Playback**

When you put a tape in the VCR, the power will come on automatically. If the tape's record tab is missing, playback will begin.

#### Automatic Rewind

When a tape is played, fast forwarded, or recorded to its end, the VCR will rewind the tape to the beginning, then stop. The VCR will not rewind the tape if the end of the tape is reached during a One-Touch Recording. *Details are on page 30.* 

#### Memory Rewind, Power Off

When the POWER button is pressed while the VCR is rewinding a tape, REWIND $\rightarrow$ POWER OFF will appear on the screen. When the tape has finished rewinding, the VCR will stop, then turn itself off.

#### Tape Eject

A tape can be ejected with the VCR power on or off (but the VCR must be plugged in).

If a timer recording is programmed, the ④ and Cassette-Inside lights will flash on the VCR's display panel after you eject a tape with the VCR power turned off.

#### **Counter Reset**

The real-time counter will reset to 0:00:00 when you insert a cassette.

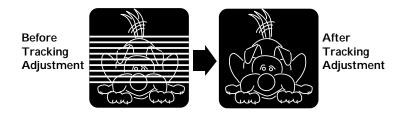
To reset the real-time counter to 0:00:00 at anytime, press the CLEAR button on the remote control.

#### Automatic Tracking Adjustment

The VCR continually adjusts tracking to give you the best possible picture quality. With some recordings, however, you may get a better picture by adjusting the tracking manually (see below).

#### Manual Tracking Adjustment

- Press the CH(annel)  $\blacktriangle$ / $\nabla$  buttons to remove jitter in a still picture.
- To return to Automatic Tracking Adjustment, press the CH(annel)
   ▲/▼ buttons on the VCR at the same time except during still picture mode.
- The CH(annel) ▲/▼ buttons adjust tracking during normal tape playback and slow motion picture.
- The VCR returns to Automatic Tracking Adjustment whenever a tape is inserted.



## 52 Glossary

**AUDIO IN/OUT Jacks:** jacks located on the front and back of the VCR which are used to record audio from another source (IN) or to send audio to another source (OUT).

The VRA451 has single AUDIO IN/OUT Jacks on the front and back of the VCR. The VRA651 has Right and Left AUDIO IN/OUT Jacks on the front and back of the VCR.

<u>Automatic Channel Programming</u>: process in which the VCR scans all available channels and places the ones you receive in its memory. Then, when you press the CH(annel)  $\blacktriangle$ / $\blacksquare$  button, you only scan through channels you receive.

Bands: settings that allow you to tune channels.

- Antenna VHF (very high frequency; channels 2 13) and UHF (ultra high frequency; channels 14 69).
- Cable standard channels can be received without a Cable Box.

Cable Box/DBS Output Channel: channel 03 or 04.

DBS: Direct Broadcast System.

**Dubbing:** copying a tape using a second VCR.

Frame: a single still picture.

HQ: high quality; a feature in the VCR circuitry which provides enhanced picture detail.

**<u>OTR</u>**: one-touch recording; a timed recording that starts immediately and records for 30 minutes to six hours, whichever you specify.

**<u>Remote Control</u>**: the small electronic unit that came with your VCR; allows you to operate your VCR from a distance. The remote control also may operate some features of your TV, Cable Box, or DBS.

**<u>RF coaxial cable:</u>** the cable supplied with your VCR. Use it to connect your VCR to your TV (or Cable Box/DBS, if applicable). The supplied cable is a snap-on type. However, you also may use a screw-on type if you prefer.

**Special Effects:** forward and reverse searching; viewing a still picture; or viewing a slow motion picture.

Tape Speeds: how fast the tape travels during a recording or playback.

- LP (long play) average tape speed (playback time for a T120 tape is approximately four hours); available for playback only. Although the VCR will play tapes recorded in LP, LP will not appear on the display panel or in the on-screen status display.
- **SLP (super long play)** slowest tape speed (recording/playback time for a T120 tape is approximately six hours).
- SP (standard play) fastest tape speed (recording/playback time for a T120 tape is approximately two hours); best picture quality.

VCR: video cassette recorder.

<u>VIDEO IN/OUT Jacks</u>: jacks located on the front and back of the VCR which are used to record video from another source (IN) or to send video to another source (OUT).

## Specifications 53

Video Heads Four heads (VRA451) Four heads with Hi-Fi stereo (VRA651)

Video Signal EIA standards; NTSC color

Antenna VHF/UHF – 75 ohm external antenna terminal

VHF Output Signal Channel 3 or 4 (switchable) 75 ohms unbalanced

Power Requirement 120V AC; 60 Hz

#### **Power Consumption**

17 W (VRA451) 19 W (VRA651)

#### **Operating Temperature**

41°F (5°C) to 104°F (40°C)

#### Relative Humidity

10% to 80%

#### Weight

7.1 lbs. (3.2 kg.)

#### Dimensions

14-3/16" (W) x 3-3/4" (H) x 11-1/8" (D) (360 mm x 94.5 mm x 281 mm)

#### **Tuner Broadcast Channels**

VHF: 2-13 UHF: 14-69

#### Cable TV Channels

VHF: 2 - 13 Midband: A - 1 Superband: J - W Hyperband: A-5 - A-1 Special Channel: 5A Ultraband: 37 - 94, 100 - 125

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

## 54 Helpful Hints

If you are having problems with your VCR, check the following list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.

If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

#### The VCR has no power.

- Make sure the power plug is completely connected to an AC (alternating current) outlet.
- Make sure the power is turned on.

#### A power failure occurred.

• Select a language and set up channels, if prompted to do so. *Details are on pages 11-12 and 19.* Reset the clock if necessary. *Details are on pages 13-17.* You also may need to reprogram your timer recordings. *Details are on pages 32-39.* 

#### The VCR cannot be controlled with the remote control.

- Aim the remote control directly at the VCR's remote sensor. Details are on pages 5 and 22.
- Remove all obstacles between the remote control and the VCR.
- Inspect and/or replace the batteries in the remote control. Details are on page 5.
- Press the VCR button, then try the other buttons.

## The VCR does not respond normally to the remote control. (For example, the VCR may change channels multiple times when you press the CH(annel) $\blacktriangle$ button once.)

• Install new batteries (preferably alkaline) in the remote control.

#### The VCR will not perform a timer recording.

- Make sure the recording start and stop times are set correctly. Details are on pages 32-39.
- Make sure there is a tape in the VCR.
- Make sure the tape has a record tab. Details are on page 5.
- Make sure the VCR power is off.
- Make sure the clock is set. Details are on pages 13-17.
- The VCR may not perform or continue a timer recording if a power interruption of more than 10 minutes occurs, even if the power comes back on. If timer recordings are lost, - - : - - should appear on the display panel. But, even if you do not see this indication and the VCR operates normally, check programmed timer recordings.
- When you turn on the VCR after a power failure, this on-screen message may appear: POWER FAILURE OCCURRED/TIMER MEMORY CLEARED (IF PROGRAMMED)/PLEASE SET PROGRAMS TO BE RECORDED/TO END PUSH EXIT. First, reset the clock. *Details are on pages 13-17*. Then, set up channels. *Details are on pages 11-12*. Finally, program the timer recordings again. *Details are on pages 32-39*.
- Finish programming a timer recording at least five minutes before the recording is scheduled to begin.
- If the VCR power is turned off for a timer recording and there isn't a tape in the VCR, the 
   and 
   Cassette-Inside lights will blink on the display panel.
- If the record tab on a tape is missing and you turn off the VCR to set a timer recording, the VCR will eject the tape. The (2) and Cassette-Inside lights will blink on the display panel.
- Noon is 12 p.m.; midnight is 12 a.m.
- If you are using a Cable Box/DBS, enter the Cable Box/DBS output channel (03 or 04) at step 3 on page 36, then select the channel to be recorded at the Cable Box/DBS. Leave the Cable Box/DBS on for the timer recording.

#### Tape can't be inserted.

- Insert the tape window side up, with the record tab facing you.
- Make sure a tape isn't already in the VCR by pressing the STOP/EJECT button on the VCR or the EJECT button on the remote control.
- Gently push the center of the tape as you put it in the VCR. Never force a tape into the VCR.

#### Tape can't be removed.

• Make sure the power plug is completely connected to an AC (alternating current) outlet.

#### The motor (cylinder) rotates even when the VCR is in Stop mode.

• To enable the quick play mechanism, the cylinder will rotate for about five minutes. This is normal. The quick play mechanism enables the tape mechanism to switch from Stop mode to Play mode in one second.

#### There is no playback picture, or the playback picture is noisy or contains streaks.

- Make sure the TV is on the same channel as the VCR's CH3/CH4 switch. Details are on pages 6-9.
- Make sure the VCR is in VCR position. Details are on pages 21-22.
- Make sure channel 3 or 4 is properly adjusted at the TV.
- Adjust the tracking. Details are on page 51.

## The Number buttons won't work for channels above 69; channels above 13 cannot be received.

• Select CABLE at the TUNER SET UP menu, then let the VCR set up the channels. Details are on page 11.

#### A TV program cannot be recorded.

- Check the connections between the VCR, TV, antenna/cable, and Cable Box/DBS (if applicable). Details are on pages 6-9.
- Make sure channels are programmed correctly. Details are on pages 11-12.
- Make sure the tape has a record tab. Details are on page 5.

#### TV programs cannot be watched normally.

- Put the VCR in TV position. Details are on pages 21-22.
- Check the connections between the VCR, TV, antenna/cable, and Cable Box/DBS (if applicable). Details are on pages 6-9.

#### Line Input mode is selected.

If you accidentally enter Line Input mode (L-1 or L-F will appear on the display panel), use the CH(annel)
 ▲/▼ button or the Number buttons to select another channel.

#### Multi-Channel Television Sound System (VRA651 only)

- You can only receive and record in stereo or second audio programs that are broadcast in stereo or second audio. You can only play in stereo or second audio tapes that were recorded in stereo or second audio. *Details are on pages 43-45.*
- If you select second audio when second audio is not available, the VCR will record normal audio.
- When you program your VCR to record in stereo, broadcasts are recorded in Hi-Fi stereo.
- You will only get stereo sound if you use audio cables to connect the AUDIO OUT Jacks on the VCR to the AUDIO IN Jacks on your TV. The TV must be in Line Input mode. See your TV owner's manual for details.
- When you connect the AUDIO OUT Jacks on your VCR to the AUDIO IN Jacks on your TV, the stereo light on the TV might not glow. This is normal. If the VCR indicates you are receiving a stereo broadcast, you are. (STEREO will appear in the status display.)

## The VCR ejects the tape when the REC(ord)/OTR button is pressed or when the VCR power is turned off to set a timer recording.

• Make sure the tape has a record tab. Details are on page 5.

#### The remote control is not available or the remote control will not access the VCR's onscreen menu.

• Use the front panel buttons to access the menu. You cannot access the TIMER menu using the front panel buttons. *Details are on page 23.* 

## 56 Limited Warranty

#### VIDEO CASSETTE RECORDER

90 Days Free Labor/One Year Parts Exchange. This product must be carried in for repair.

#### WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

#### WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, all parts will be repaired or replaced, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced, but you pay for all labor charges. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

#### WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- 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 that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- 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, prerecorded material, whether copyrighted or not copyrighted.)
- damage caused by the use of non-VHS tapes or tapes that have not been tested and labelled for use in two, four, six, and eight hour VHS recorders.
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

#### WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

#### MAKE SURE YOU KEEP ...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

#### **BEFORE REQUESTING SERVICE...**

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

#### TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS..

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, 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. Because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

#### **TO GET WARRANTY SERVICE IN CANADA...** Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental, or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

#### REMEMBER ...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # \_

SERIAL #

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

Philips Service Solutions Group, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

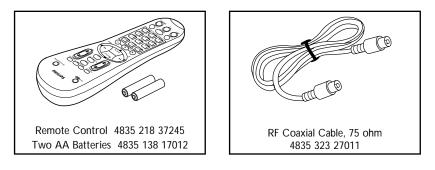
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## **SUPPLIED ACCESSORIES**

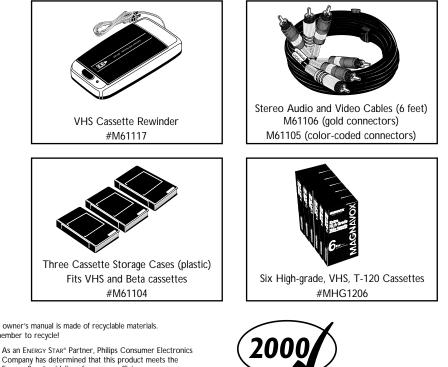
The following items are supplied with your VCR; they are provided to help you use or set up your VCR.



## **OPTIONAL** ACCESSORIES

The following additional items are not provided with your VCR, but they are designed for use with your new VCR. To order these optional accessories, contact us at:

Philips Parts & Accessories Marketing Department 401 East Old Andrew Johnson Highway P.O. Box 555 Jefferson City, TN 37760 1-800-851-8885.





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