# SV2000

Video

Cassette

Recorder

Owner's Manual

MPORTAN Card

MPORTAN Card

Return Your Warranty Registration

Return Your Warranty See Why Inside.

**MODEL SVA106** 

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

Once your purchase is registered, you're eligible to receive all the privileges of owning this 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 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.

SV2000

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

#### Dear product owner:

Thank you for your confidence in this product. 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 SV2000 "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 an SV2000 product.

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



# safetysymbols



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.

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Below,	enter	your	product's	model	number	and	serial	number,	which	are	located	on	the	rear	of	the	cabinet.
Keep t	his info	rmati	ion for fut	ure ref	ference.												

Model No.	Serial No.	

Welcome to your VCR owner's manual.

This manual has seven sections: Setting Up Your VCR; Description of Controls; Basic Operations; Recording; Playing; Stereo Features; and Information You May Need. The instructions explain all of the VCR's features, which are listed below. You cannot hurt your VCR by trying the features! So read on – and relax.

#### **Features**

- Auto Return
- Auto Satellite Link
- Automatic Channel Setup
- Automatic Playback Features
- Automatic Tracking Adjustment
- Display Panel
- Hi-Fi Stereo Sound System
- High Quality (HQ) System
- MTS (Multi-Channel Television Sound) System
- 19 micron head
- · On-Screen Displays in English or Spanish
- · One-Touch Recording
- Real-Time Counter
- · Remote Control
- Rental Play
- Repeat Play
- Special Effects Playback: Forward and Reverse Searching; Still; Slow
- Special Search Functions: Index; Time; Quick Find
- Timer Recording

#### 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 Company recommends that you use only video cassette tapes that are labeled 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.

The 19 micron head 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.

As an Energy Star® Partner, Philips Consumer Electronics Company has determined that this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark.

Using products with the ENERGY STAR® label can save energy. Saving energy reduces air pollution and lowers utility bills. Copyright 1999 Philips Consumer Electronics Company. All rights reserved.

- Before doing anything else, record the VCR's model and serial numbers in the spaces provided on page two. These numbers will help us assist you if you ever call for help.
- This manual, your new product, and its packaging 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 product, batteries, manual, and packaging whenever you replace existing equipment.

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#### **Putting Batteries in the Remote Control**

1

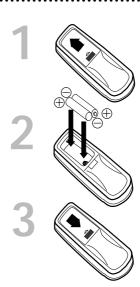
**Remove the battery compartment lid** on the bottom of the remote control by sliding the lid in the direction of the arrow.

2

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

3

Replace the battery compartment lid.



#### **Using the Remote Control**

- Point the remote control at the VCR's remote sensor (see page 21) when using the remote control to operate the VCR.
- Do not put objects between the remote control and the VCR.

#### **Erasure Prevention**

Video cassette tapes 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

- In this VCR, use only tapes with the VHS mark.
- Make sure any light adhesive stick-on notes are removed from the video cassette tape before putting the tape in the VCR.
   Removable labels like these can jam the VCR.
- Periodic maintenance is required to maintain your VCR's performance. The video heads will eventually require cleaning or replacement. Cleaning or replacement of the video heads should be performed by an authorized service center.

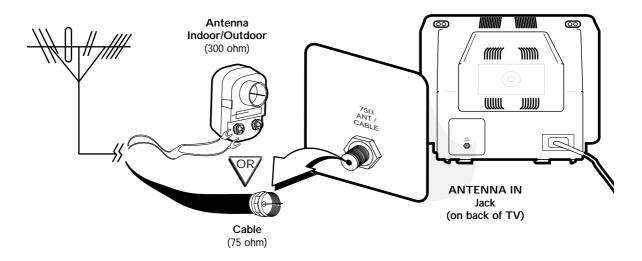
- The remote control and its batteries are supplied.
- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

# 6 Hookups Without a Cable Box/Direct Broadcast System

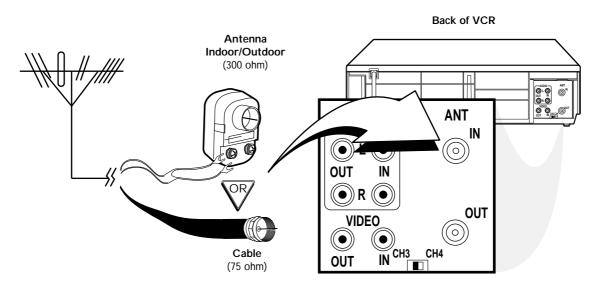
The basic VCR/TV connection – antenna/cable to VCR to TV – is shown below. If you have a Cable Box or a Direct Broadcast System, please see pages eight-nine. If you have a Stereo TV, please see page 10. After you hook up the VCR, go to page 11 to turn on the VCR.

1

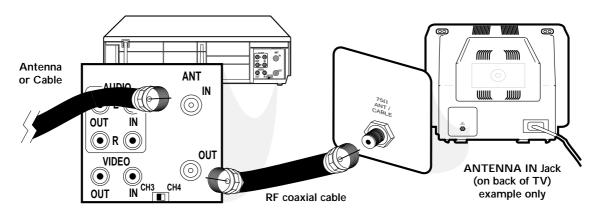
Disconnect the antenna or cable from your TV.



Connect the antenna or cable to the ANT(enna) IN Jack of your VCR.

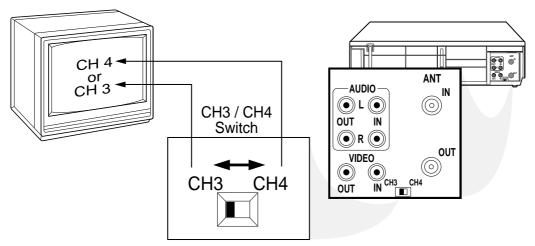


Connect the RF coaxial cable (supplied) to the OUT Jack on the back of the VCR and to the ANTENNA IN Jack on the TV. (You may use either a snap-on type (supplied) or screw-on type of coaxial cable, whichever you prefer.)



Plug in the TV and the VCR.

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. 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 03.

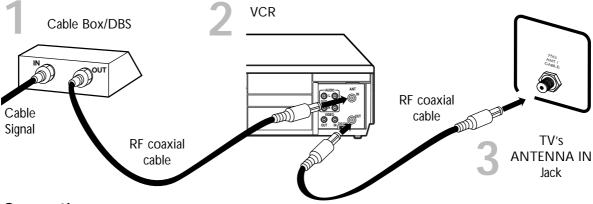


You are ready to turn on the VCR. Please go to page 11 before turning on the VCR.

# 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 program 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), and 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 7 on page 28.) Leave the Cable Box/DBS on for a timer recording.



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 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/TV light will appear on the display panel), use the CHANNEL △/▼ buttons to set the VCR to the Cable Box/DBS output channel (channel 03 or 04).

2

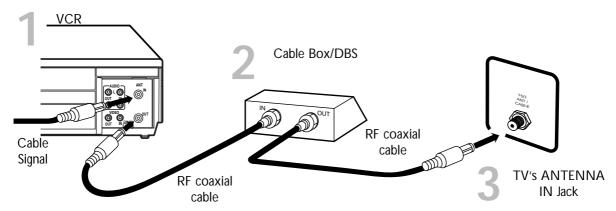
Set the TV to the same channel to which you set the VCR. Set the CH3/CH4 switch on the back of the VCR to the same channel.

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**

1

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

2

Use an RF coaxial cable (supplied) to connect the 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 ANTENNA IN Jack on the TV.

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

1

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

Then, with the VCR in VCR position (the VCR/TV light will appear on the display panel), use the CHANNEL △/▼ buttons 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/TV light will disappear.)

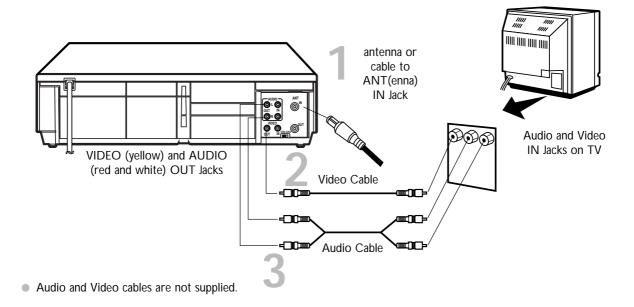
3

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 Hookups With a Stereo TV



1

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

2

Connect a video cable to the yellow VIDEO OUT Jack on the back of the VCR. Then, connect the other end of the video cable to the VIDEO IN Jack on your TV.

3

Connect an audio cable to the red and white AUDIO OUT Jacks on the back of the VCR. Then, connect the other end of the audio cable to the AUDIO IN Jacks on your TV.

4

**Turn on your TV**, making sure it is in Line Input mode. Please refer to your TV owner's manual for details.

- A stereo audio cable (not supplied) is used here to deliver audio to the TV's left and right channels.
- The TV must be in Line Input mode. Please refer to your TV owner's manual.

- Before turning on your VCR, make sure there are batteries in the remote control and the VCR and TV are connected (see pages five - 10).
- You can not set up channels if you are using a Cable Box/DBS.
- The instructions on this page only work when you turn on the VCR for the first time. If there is a power failure or if the VCR is unplugged for more than one minute, you may need to repeat the instructions on this page.

1

**Press the POWER button**. The POWER light and the VCR/TV light will appear.

2

Turn on the TV. Set it to the same channel as the CH3/CH4 switch on the back of the VCR. The menu shown below will appear.

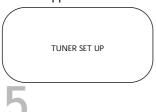


3

Press the PLAY button or the STOP button to select ENGLISH or ESPAÑOL. [ON] will appear beside your choice.

4

**Press the F.FWD button or the MENU button.** TUNER SET UP will appear on the screen.

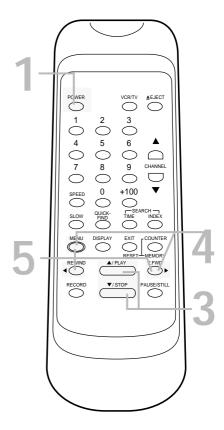


Press the MENU button, the F.FWD button, or the REWIND button to begin automatic channel setup.

TUNER SET UP will flash on the screen. When channels are set up, the TV will go to the lowest channel available.

The VCR will memorize all available channels, so when you use the CHANNEL ▲/▼ buttons, you'll only scan through channels that you receive.

Turn on the TV.



#### Helpful Hint

If you do not see any on-screen displays when you turn on the VCR, check your hookups, then try again. If you still do not see any on-screen displays, follow the steps under "Automatic Channel Setup" on page 12 and "Language Selection" on page 16.

# 12 Automatic Channel Setup

Although your VCR may automatically set up the channels you receive when you turn it on for the first time, this function lets you set up channels again. Make sure:

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

1

Press the MENU button repeatedly until the INITIALIZE menu appears.

INITIALIZE

→ CHANNEL SET UP
SETTING CLOCK
LANGUAGE SELECT

2

Press the PLAY button or the STOP button repeatedly to select CHANNEL SET UP. Then, press the F.FWD button.

CHANNEL SET UP

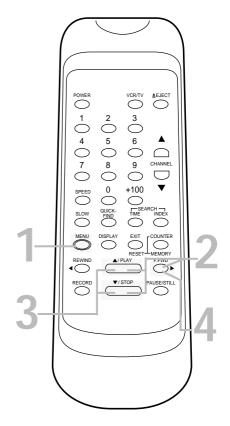
→ AUTO TUNING
ADD/DELETE CH

3

Press the PLAY button or the STOP button repeatedly to select AUTO TUNING.

4

**Press the F.FWD button.** The VCR will memorize all available channels. When setup is complete, the lowest channel you receive will appear on the screen.



- Line Input mode will always be stored in the VCR's memory as channel 001 or 002. When you select channel 001 or 002 with the Number buttons, L1 (the rear audio and video input jacks) or L2 (the front audio and video input jacks) will appear on the screen.
   You may also select L1 or L2 with the CHANNEL ▲/▼ buttons.
- You can not program channels if you are using a Cable Box/DBS. Details are on pages eight-nine.

#### Adding/Deleting Channels

The channels you no longer receive or seldom watch can be deleted from the memory. You also may add new channels into the memory. Make sure:

• The VCR is on and in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)

Press the MENU button repeatedly until the INITIALIZE menu appears.

Press the PLAY button or the STOP button repeatedly to select CHANNEL SET UP. Then, press the F.FWD button.



Press the PLAY button or the STOP button repeatedly to select ADD/DELETE CH. Then, press the F.FWD button.



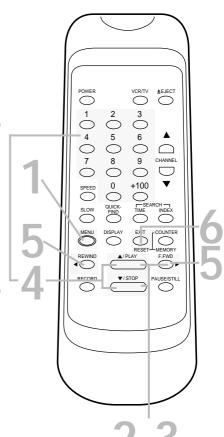
Press the Number buttons or press the PLAY button or the STOP button repeatedly until your desired channel number appears.



Press the F.FWD button or the REWIND button so that ADD or DELETE flashes on the screen.



While your choice is flashing, press the COUNTER RESET/EXIT button. The channel you added or deleted will appear. The channel will be added or deleted, whichever was flashing on the screen when you exited the menu.



# 14 Setting the Clock

Follow the steps below to set your VCR's clock. Make sure:

• The VCR is on and in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)

Press the MENU button repeatedly until the INITIALIZE menu appears.

Press the PLAY button or the STOP button repeatedly to select SETTING CLOCK. Then, press the F.FWD button.



While the MONTH space is flashing, press the PLAY button or the STOP button repeatedly until the desired month appears. Then, press the F.FWD button.

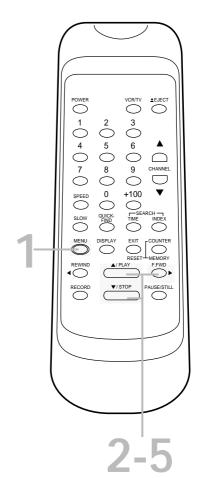


While the DAY space is flashing, press the PLAY button or the STOP button repeatedly until the desired day appears. Then, press the F.FWD button.



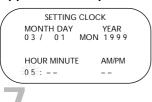
While the YEAR space is flashing, press the PLAY button or the STOP button repeatedly until the desired year appears. Press the F.FWD button. The day of the week will appear automatically.

		•				
	SETTING CLOCK					
(	MONTH DAY	YEAR	1			
	03/01	1999				
(	HOUR MINUTE	AM/PM	)			
	:					



- If the clock has never been set, the SETTING CLOCK menu may appear immediately when you press the MENU button. If this happens, follow the instructions from step 3 above.
- To display the time, press the DIS-PLAY button repeatedly until the time appears on the screen.
- Power failures that last for more than one minute can cause you to lose your clock setting.
- Press the REWIND button to go back one step from the current step during steps 4-8.

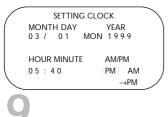
While the HOUR space is flashing, press the PLAY button or the STOP button repeatedly until the desired hour appears. Then, press the F.FWD button.



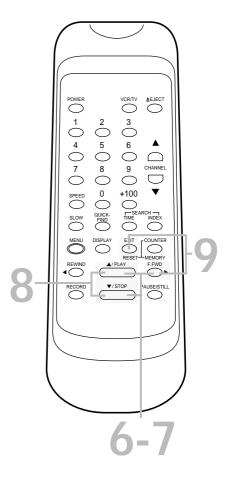
While the MINUTE space is flashing, press the PLAY button or the STOP button repeatedly until the desired minute appears. Then, press the F.FWD button.



While the AM or PM space is flashing, press the PLAY button or the STOP button repeatedly to point to AM or PM. Your selection will flash on the screen in the AM/PM space.



Press the COUNTER RESET/EXIT button or the F.FWD button to start the clock.



- To reset the clock, follow steps 1-2 on page 14. Select the information you want to change using the F.FWD button or the REWIND button. When the desired information is flashing, use the PLAY button or the STOP button to enter the correct information. Press the COUNTER RESET/EXIT button.
- This VCR is ready for the year 2000 and the years beyond. To set a date in the year 2000, enter 2000 for the year in step 5 on page 14.

# 16 Language Selection

Follow the steps below to change the language of the on-screen menus and displays. Make sure:

 The VCR is on and in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)

1

Press the MENU button repeatedly until the INITIALIZE menu appears.

INITIALIZE

→ CHANNEL SET UP SETTING CLOCK LANGUAGE SELECT

2

Press the PLAY button or the STOP button repeatedly to select LANGUAGE SELECT. Then, press the F.FWD button.

INITIALIZE

CHANNEL SET UP SETTING CLOCK → LANGUAGE SELECT

3

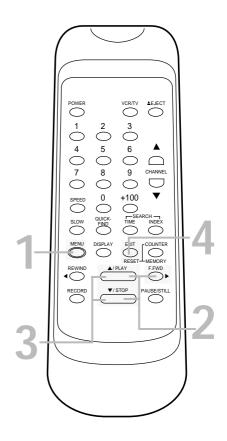
Press the PLAY button or the STOP button to select ENGLISH or ESPAÑOL. [ON] will appear beside your choice.

LANGUAGE SELECT

→ ENGLISH ESPAÑOL [ON]

4

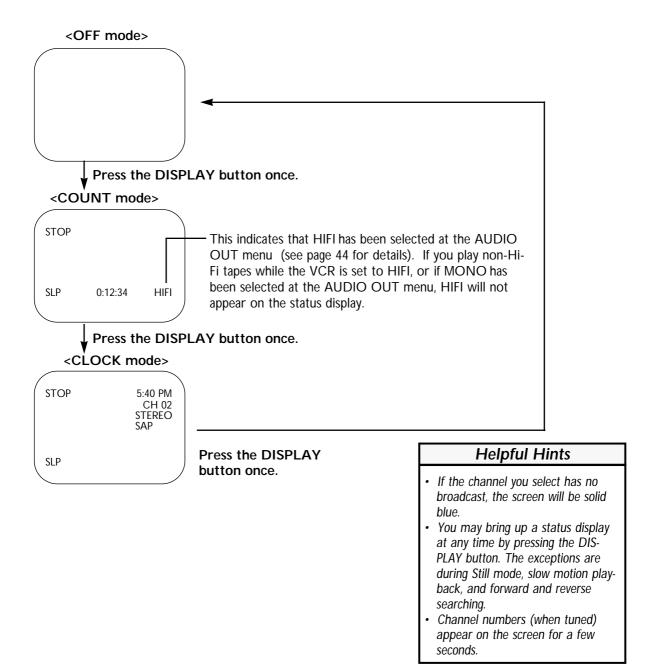
Press the COUNTER RESET/EXIT button.



- If you accidentally select Spanish on-screen displays and need English on-screen displays:
- 1) Press the MENU button repeatedly until the PARA INICIAR menu appears.
- 2) Press the PLAY button or the STOP button repeatedly to choose SELEC. IDIOMA, then press the F.FWD button.
- 3) Press the PLAY button or the STOP button to select ENGLISH.
- 4) Press the COUNTER RESET/EXIT button.

You may access on-screen status displays by pressing the DISPLAY button repeatedly. On-screen status displays may include the current time, channel, and other information.

- Press the DISPLAY button once. The COUNT on-screen status display will appear for five seconds. After five seconds, only the real-time counter will appear on the screen. This counter shows you the elapsed playing time of the tape (from the point at which the real-time counter was set to zero).
- Press the DISPLAY button once again. The CLOCK on-screen status display will appear for five seconds.
   After five seconds, only the current time will appear on the screen (the clock must be set). (If you are watching TV, the current channel number and the availability of stereo or second audio will also appear on the screen.)
- Press the DISPLAY button once again. The on-screen status display will disappear.



#### **POWER Button**

Press to turn the VCR on or off.

#### **Number Buttons**

Use to select channels.

#### Channels 1-9

To select, press 0, then press the channel number you want. For example, to select channel 7, press 0, 7.

#### Channels 100 and above

To select, press the +100 button, then press the last two digits of the channel you want. For example, to select channel 117, press the +100 button, 1, 7.

#### **SPEED Button**

Press to select the recording speed (SP or SLP). Details are on pages 24 and 45.

#### **QUICK-FIND Button**

Press to perform a Quick Find. Details are on page 40.

#### **SLOW Button**

Press during tape playback to view a tape in slow motion. Slow speed can be adjusted by pressing the F.FWD button (faster) or the REWIND button (slower). *Details are on page 35*.

#### **MENU Button**

Press repeatedly to access menus or to remove menus.

#### **DISPLAY Button**

Press repeatedly to view the on-screen status displays. *Details are on page 17.* 

#### **REWIND Button**

When tape playback is stopped, press to rewind the tape at high speed. During tape playback, press to rewind the tape while the picture stays on the screen. Details are on page 35.

Press to erase a timer recording. *Details are on page 29*. Press to go back one step when setting the clock or a timer recording.

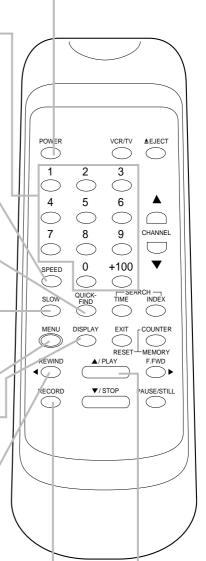
Press to add or delete channel numbers. Details are on page 13.

#### **RECORD Button**

Press to start a recording. Details are on page 24.

#### **PLAY Button**

Press to play a tape. Also, press to release Slow, Search, or Still mode and to return to normal playback. *Details are on page 35*. Use to enter digits and information when programming a function in the on-screen menu (setting the clock, for example). Press to select an item in the on-screen menu.

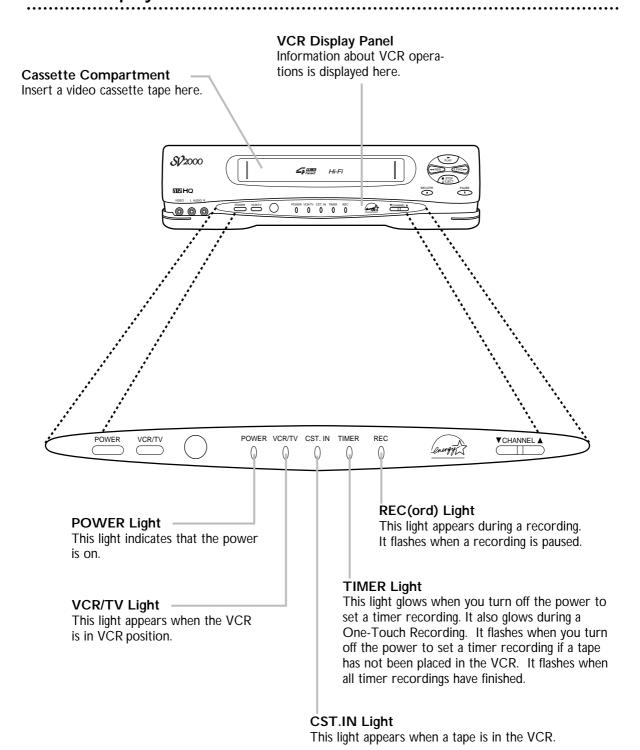


#### **EJECT Button** Press to eject the tape. VCR/TV Button Use to select the signal that your TV receives. VCR Position Use to watch a tape, to watch a program while recording it, or to watch a TV broadcast using the CHANNEL ▲/▼ or Number buttons to change channels at the VCR. TV Position Use to watch TV (changing channels at the TV) or to watch one program while recording another. Details are on page 32. ≜EJI CT CHANNEL ▲/▼ Buttons Press to scan up or down through the VCR's channels after the channels have been set up. Details are on page 12. 6 lackDuring slow motion playback, press to adjust the tracking. Details are on page 41. CHANNEL 9 TIME SEARCH Button 0 +100 Press to perform a Time Search. Details are on page 39. SPEED **INDEX SEARCH Button** Press to perform an Index Search. Details are on page 38. **COUNTER MEMORY Button** MENU COUNTER Press to memorize a tape position at which the real-time counter MEMORY was set to 0:00:00. Details are on page 37. ▲/ PLAY **COUNTER RESET/EXIT Button** PAUSE/STILL Press to set the real-time counter to zero. Details are on page 37. Press to remove menus. STOP Button-Press to stop the tape. Use to enter digits and information when programming a function in the on-screen menu (setting the clock, for example). Press to select an item in the on-screen menu. PAUSE/STILL Button During recording, press to temporarily stop the recording. Press again to resume recording. Details are on page 24. You can not pause a One-Touch Recording. Details are on page 25. During tape playback, press to freeze the picture. Press the PAUSE/STILL button repeatedly to advance the picture frame by frame. Details are on page 35.

#### F.FWD Button

When tape playback is stopped, press to fast forward the tape at high speed. During tape playback, press to fast forward the tape while the picture stays on the screen. *Details are on page 35*. Press to add or delete channel numbers. *Details are on page 13*.

# 20 VCR Display Panel



#### Remote Sensor

Receives a signal from your remote control so you can operate your VCR from a distance.

#### **POWER Button**

Press to turn the VCR power on and off.

#### **AUDIO IN Jacks**

Connect the cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here. Details are on page 33.

#### F.FWD (Fast Forward) Button -

When tape playback is stopped, press to fast forward the tape at high speed. During tape playback, press to fast forward the tape while the picture stays on the screen. *Details are on page 35*.

#### **PLAY Button**

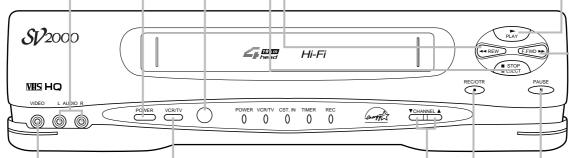
Press to play a tape. Also, press to release Slow, Search, or Still mode and return to normal playback. *Details are on page 35*.

#### STOP/EJECT Button

Press once to stop the tape. When tape play-back is stopped, press to eject the tape.

#### REW(ind) Button

When tape playback is stopped, press to rewind the tape at high speed. During tape playback, press to rewind the tape while the picture stays on the screen. *Details are on page 35*.



#### VIDEO IN Jack

Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here. Details are on page 33.

#### **VCR/TV Button**

Use 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 CHANNEL ▲/▼ or Number buttons to change channels at the VCR. The VCR/TV light will appear when the VCR is in VCR position.

#### TV Position

Use to watch TV (changing channels at the TV) or to watch one program while recording another. Details are on page 32.

#### CHANNEL ▲/▼ Buttons

Press to scan up or down through the VCR's channels.

#### **TRACKING Function**

During normal tape playback or slow motion tape playback, press the CHANNEL ▲/▼ buttons to adjust the tracking. Details are on page 41.

#### REC(ord)/OTR Button

Press once to start a recording. Details are on page 24. Press repeatedly to start a One-Touch Recording (an immediate recording, 30 minutes to eight hours long) of the channel you are watching. Details are on page 25.

#### PAUSE Button

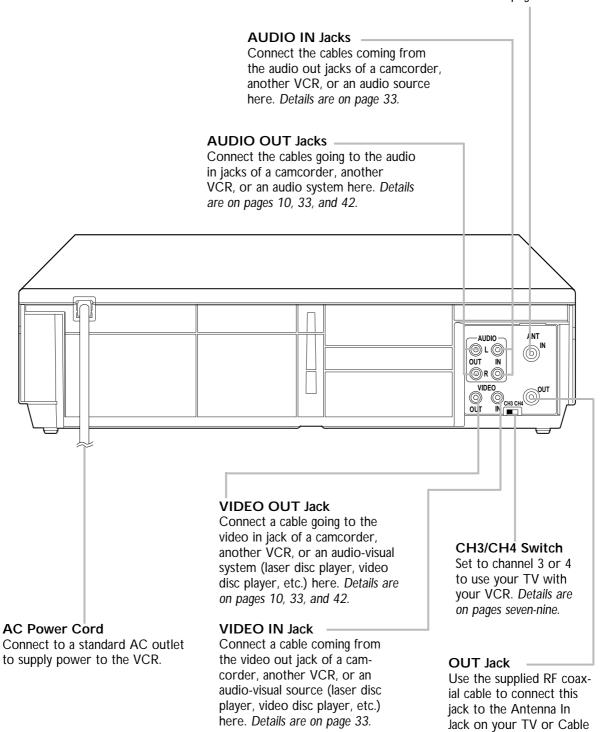
While recording, press to temporarily stop the recording. Press a second time to resume normal recording. *Details are on page 24.* You can not pause a One-Touch Recording. *Details are on page 25.* During tape playback, press to freeze the picture. Press repeatedly to advance the still picture frame by frame. *Details are on page 35.* 

#### ANT(enna) IN Jack

Connect your antenna or cable here. Details are on pages six-10.

Box/DBS. Details are on

pages six-nine.



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.

2

**Insert a tape in the VCR**. The POWER, VCR/TV, and CST.IN lights will appear. If the tape's record tab has been removed, playback will begin automatically.

3

If playback does not start automatically, press the PLAY button.

4

Press the STOP button to stop playback.

5

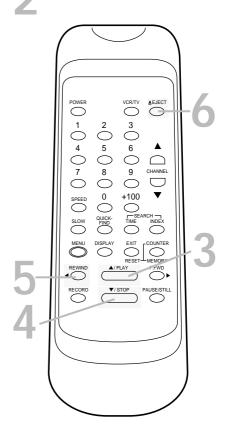
Press the REWIND button to rewind the tape.

6

Press the EJECT button to remove the tape.

Turn on the TV.

Insert a tape.



- If the tape you want to play is already in the VCR, make sure the VCR power is on and the VCR is in VCR position. (Press the VCR/TV button so that the VCR/TV light appears.) Then, press the PLAY button.
- Other playback options and features are on pages 34-41.

# 24 Recording

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

1

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.

2

Insert a tape with its record tab intact (see page five) in the VCR. The POWER, VCR/TV, and CST.IN lights will appear.

3

If the VCR/TV light does not appear, press the VCR/TV button so that the VCR/TV light appears.

4

Press the SPEED button until the desired tape speed (SP or SLP) appears on the screen. The tape speed will disappear after about five seconds.

You can change the tape speed while the VCR is recording, but some distortion may appear on the tape. *Details about tape speed are on page 45.* 

5

Use the CHANNEL ▲/▼ buttons or the Number buttons to select the channel to be recorded.



Press the RECORD button once to start recording. The REC(ord) light will appear. If the tape is missing the record tab, the VCR will eject the tape.

7

To pause the recording (for example, during commercials), press the PAUSE/STILL button once. The REC(ord) light will flash.

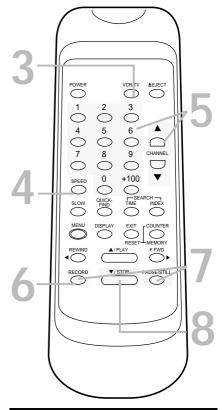
To resume recording, press the RECORD button or the PAUSE/STILL button again. The REC(ord) light will appear.

8

Press the STOP button to stop recording.

Turn on the TV.

Insert a tape.



- Other recording options are on pages 25-33.
- The VCR will record in a preset volume.
- Pause mode will automatically switch to Stop mode after five minutes to protect the VCR and the tape from damage. When a recording is paused, you may review the pause time remaining with the ■ marks on the screen. Each ■ mark equals one minute remaining. During the last minute of paused recording, the ■ mark will flash.
- If any menu is activated on the TV screen, the RECORD button on the remote control does not function.
   Press the COUNTER RESET/EXIT button to remove the menu. Then, press the RECORD button.

The One-Touch Recording function allows you to program an immediate timed recording 30 minutes to eight hours long. Before you begin, make sure:

- Channels are set up.
- The desired recording speed (SP, SLP) has been selected with the SPEED button.
- 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/TV light will appear. If it does not, press the VCR/TV button once.)

#### Starting an OTR

1

Use the CHANNEL ▲/▼ buttons or the Number buttons to select the channel you want to record.

2

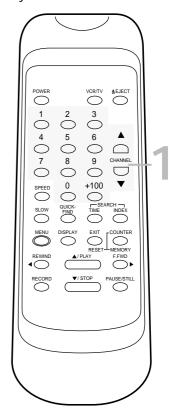
Press the REC(ord)/OTR button on the VCR repeatedly until the desired recording length (30 minutes to eight hours) appears in the upper left corner of the screen. Recording will begin immediately.



#### Stopping an OTR

To stop an OTR before recording is finished, press the STOP button on the remote control. To cancel the OTR but continue recording, press the REC(ord)/OTR button **on the VCR** repeatedly until REC appears in the upper left corner of the screen.

Press the REC(ord)/OTR button on the VCR repeatedly.



- To change the recording length while an OTR is in progress, press the REC(ord)/OTR button on the VCR repeatedly until the desired length appears on the screen.
- You can not pause recording during an OTR.
- If the preset time for a timer recording comes up during an OTR, the OTR has priority. The timer recording will not occur.
- To show the time remaining for an OTR, press the DISPLAY button repeatedly until OTR and the time remaining appear in the upper left corner of the screen.
- If the end of the tape is reached during an OTR, the VCR will stop recording, eject the tape, and turn itself off.

# 26 Timer Recording

Follow the steps below to program your VCR to record TV programs while you're away from home. You can program up to seven timer recordings. For each one, the VCR will turn itself on, record, and turn itself off automatically. Before you begin make sure:

- Channels are set up.
- The clock is set.
- 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/TV light will appear. If it does not, press the VCR/TV button once.

1

Press the MENU button until the TIMER PROGRAM-MING menu appears. Program numbers that do not have a timer recording stored will flash.

```
TIMER PROGRAMMING
PROG. 1234567
DATE
START TIME
END TIME
CHANNEL
REC SPEED
```

2

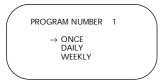
Press the PLAY button or the STOP button repeatedly to select a program number. Then, press the F.FWD button. (If you select a program number that already has a timer recording stored, information about that program will appear. Press the PLAY button or the STOP button to select another program number.)

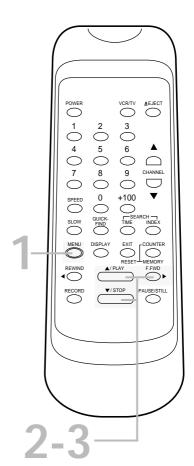
```
PROGRAM NUMBER 1
DATE --/-
START TIME --:---
END TIME --:---
CHANNEL --
REC SPEED --
```

3

Press the PLAY button or the STOP button repeatedly to select a ONCE, DAILY, or WEEKLY recording. When the arrow is beside your choice, press the F.FWD button.

- ONCE The VCR will record a TV program on any day you choose, up to 12 months away.
- DAILY The VCR will record a TV program at the same time on the same channel every day, Monday through Friday.
- WEEKLY The VCR will record a TV program at the same time on the same channel every week, for example, every Monday.





Press the PLAY button or the STOP button repeatedly until the desired month appears. Then, press the F.FWD

Next, press the PLAY button or the STOP button repeatedly until the desired day appears. Then, press the F.FWD button.

The day of the week will appear automatically. You can not program the VCR to record more than one year in advance.

```
ONE TIME PROGRAM
PROGRAM NUMBER
DATE
START TIME
END TIME
               0 5 / 0 6 THU
CHANNEL
```

Enter the recording's start time.

Press the PLAY button or the STOP button repeatedly until the desired hour appears. Press the F.FWD button. Press the PLAY button or the STOP button repeatedly until the desired minute appears. Press the F.FWD but-

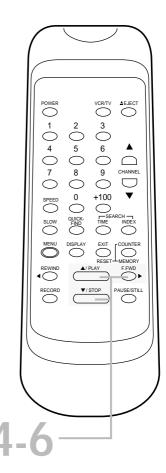
Finally, press the PLAY button or the STOP button to point to AM or PM. AM or PM will flash beside the time. Press the F.FWD button.

```
ONE TIME PROGRAM
PROGRAM NUMBER
DATE
START TIME
END TIME
CHANNEL
REC SPEED
```

Repeat the procedure in step 5 to set the recording's end time.

```
ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 THU
START TIME 07:30 P.M
END TIME 08:30 P.M
START TIME
END TIME
CHANNEL
REC SPEED
```

Instructions continue on page 28.



#### **Helpful Hints**

- The TIMER PROGRAMMING menu will not appear at step 1 if the clock is not set. Follow the steps on pages 14-15 to set the clock.
- Enter the information while the space is flashing.
- Press the REWIND button to go back one step from the current step during steps 2-8.
- To stop a started timer recording, press the STOP/EJECT button on the VCR.

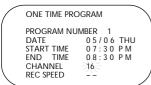
More Helpful Hints are on page 46.

# 28 Timer Recording (cont'd)

7

Press the PLAY button or the STOP button repeatedly until the desired channel number appears. Then, press the F.FWD button.

- If you are using a standard antenna/cable hookup (as shown on pages six-seven), select the channel of the TV program you want to record.
- If you are recording from line input, select L1 or L2. (L1 is located at channel 001, and L2 is located at channel 002.)
- If you are using a Cable Box/DBS, select the Cable Box/DBS output channel (03 or 04). Select the channel you want to record at the Cable Box/DBS. Leave the Cable Box/DBS on for the timer recording. Details are on page eight.





Press the PLAY button or the STOP button repeatedly to select a tape speed. The arrow will appear beside your choice. The selected tape speed will flash beside REC SPEED.

```
ONE TIME PROGRAM

PROGRAM NUMBER 1
DATE 05/06 THU
START TIME 07:30 P M
END TIME 08:30 P M
CHANNEL 16
REC SPEED SP
SLP
```

9

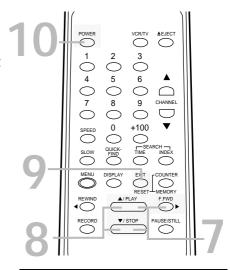
Press the COUNTER RESET/EXIT button.

10

Press the POWER button to turn off the VCR. The TIMER light will appear. (The TIMER light will flash if there is not a tape in the VCR.)

If a timer recording will take place several hours or days from now, you may use the VCR until time for the timer recording. Just make sure you turn off the VCR about five minutes before the scheduled start time.

Turn off the VCR for the recording.
Insert a tape in the VCR.
Leave the Cable Box/DBS on
(if applicable).



#### **Helpful Hints**

- To adjust the START and END times of a one-time recording (ONCE), follow these steps.
- 1) With the VCR on and in VCR position, press the MENU button to access the TIMER PROGRAMMING menu.
- 2) Press the PLAY button or the STOP button to select the program you want to adjust.
- 3) While the program number is blinking, press the RECORD button on the remote control. Each repeated press of the RECORD button will advance the START and END times by 10 minutes. You may advance the times by up to 24 hours. If the timer recording is in progress, each press of the RECORD button will advance only the END time by 10 minutes. The recording speed will change to SLP automatically. (To restore the original START and END times, press the PAUSE/STILL button.)
- 4) Press the COUNTER RESET/EXIT button.
- If you are recording from line input, connect the audio and video cables to the AUDIO IN and VIDEO IN jacks on the front or back of the VCR.

(Please see illustration on page 33.)

#### Cancelling a Timer Recording

1

Press the MENU button so that the TIMER PROGRAM-MING menu appears.

2

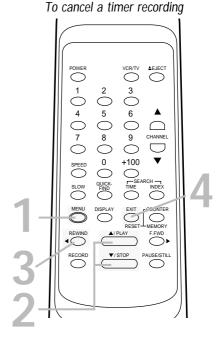
Press the PLAY button or the STOP button until the program number you want to cancel appears on the screen.

3

While the program number is flashing, press the REWIND button to cancel the timer recording.

4

Press the COUNTER RESET/EXIT button.



Correcting a Timer Recording

If you need to correct a timer recording after you have finished setting the program, follow these steps. Make sure the VCR is on and is in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)

1

Press the MENU button so that the TIMER PROGRAM-MING menu appears.

2

Press the PLAY button or the STOP button until the timer recording you want to correct appears on the screen.

3

Select the information you want to change using the F.FWD button. Press the REWIND button to go back one step. (There is an exception. Do not press the REWIND button while the program number is flashing. If you do, you will cancel the timer recording completely.)

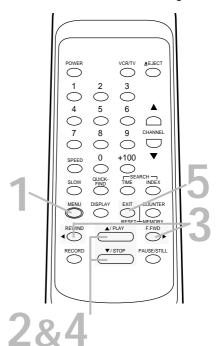
4

While the information is flashing, enter the correct information by pressing the PLAY button or the STOP button.

5

When all the information is correct, press the COUNTER RESET/EXIT button. Turn off the VCR before the timer recording.

To correct a timer recording



### 30 Auto Return

Follow the steps below to make the VCR rewind to the beginning of the programs after it has finished all timer recordings. Make sure:

 The VCR is on and is in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)

1

Press the MENU button repeatedly until the VCR SET UP menu appears.

```
VCR SET UP

→ SATELLITE LINK
AUTO REPEAT
RENTAL
AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP
```

2

Press the PLAY button or the STOP button repeatedly to select AUTO RETURN.

```
VCR SET UP

SATELLITE LINK
AUTO REPEAT
RENTAL

→ AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP
```

3

Press the F.FWD button so that [AUTO] appears next to AUTO RETURN on the screen.

```
VCR SET UP

SATELLITE LINK
AUTO REPEAT
RENTAL

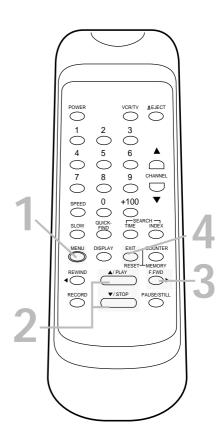
AUTO RETURN
AUDIO OUT
TV STEREO
SAP

OVER 10 AUTO
AUTO (INTERPO)
TO STEREO
TO S
```

4

#### Press the COUNTER RESET/EXIT button.

Remember to turn off the VCR before the timer recording. When all the timer recordings are completed, the TIMER light will flash and the VCR will rewind the tape to the beginning of the recorded programs.



- If additional timer recordings are programmed to take place later, the Auto Return function will not operate until all the programs are recorded.
- To cancel this function, follow steps 1-2 above. At step 3, press the F.FWD button so that [AUTO] no longer appears beside AUTO RETURN. Press the COUNTER RESET/EXIT button.

If you connect your VCR to a satellite tuner that has the Electronic Program Guide, the VCR will turn itself on, record, then turn itself off. First, read the owner's manual of your satellite tuner; then, follow the steps below. Before you begin:

- Use audio and video cables to connect the VCR's AUDIO/VIDEO IN jacks to the satellite tuner's AUDIO/VIDEO OUT jacks.
- Press the SPEED button to select the desired recording tape speed (SP or SLP).
- Set the clock. Details are on pages 14-15.
- Put 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).

1

Set the program to be recorded on the satellite tuner. See your satellite tuner owner's manual for details.

2

Press the MENU button repeatedly until the VCR SET UP menu appears.

3

Press the PLAY button or the STOP button to select SATELLITE LINK. Then, press the F.FWD button.

The current time appears next to "SATELLITE LINK."

 If you want the VCR to begin recording immediately, or as soon as a signal is received from the satellite tuner, press the F.FWD button again, then go to step 6.

 If you want to tell the VCR the time to start recording, go to step 4.

4

Press the PLAY button or the STOP button until the desired hour (AM or PM) appears. Then, press the F.FWD button.

```
VCR SET UP

→ SATELLITE LINK 05:00PM
AUTO REPEAT
RENTAL
AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP
```

5

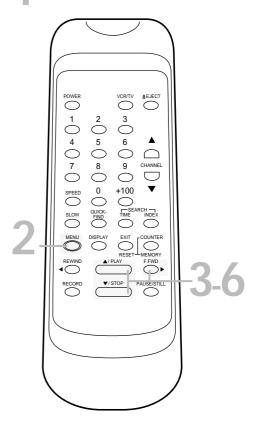
Press the PLAY button or the STOP button until the desired minute appears.

```
VCR SET UP

SATELLITE LINK 05:30PM
AUTO REPEAT
RENTAL
AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP
```

**Press the F.FWD button.** [ON] will appear briefly beside SATEL-LITE LINK. Then, the VCR will turn itself off and the TIMER light will appear on the display panel. The VCR will begin recording either immediately or at the time you selected.

Set the program to be recorded on the satellite tuner.



- To stop an Auto Satellite Link recording that is in progress, press the STOP/EJECT button on the VCR.
- If a program has copy guard protection, it may not record clearly.
- When you use this feature, the first few seconds of a program may not be recorded.
- If your satellite tuner synchronizes the recording start time with the broadcasting start time, refer to the tuner's owner's manual.
- When you turn on the VCR power before recording begins, the SATEL-LITE LINK will be cancelled.

# 32 Recording One Channel/Watching Another

1

Press the RECORD button to start a recording of the current channel. Details are on page 24.

2

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

3

Use the TV remote control to select the channel you want to watch at the TV.

4

To return to the channel being recorded, use the TV remote control to select channel 3 or 4, whichever channel the CH3/CH4 switch on the back of the VCR is set to.

5

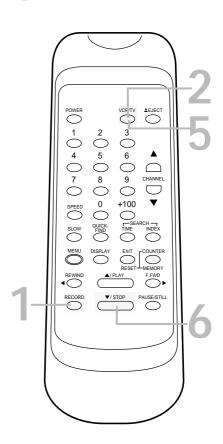
Press the VCR/TV button on the VCR remote control to put the VCR in VCR position. The VCR/TV light will appear. The channel being recorded will appear on the screen.

6

To stop recording, press the STOP button.

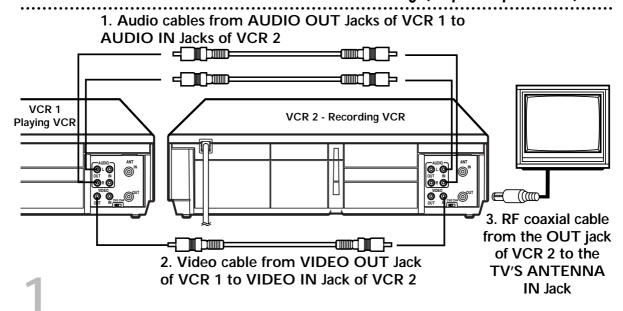
Select the channel you want to watch at the TV.

Set the TV to channel 3 or 4.



#### Helpful Hint

If you use a Cable Box/DBS, you may not be able to watch one channel while recording another. Details are on pages eight-nine.



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.

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

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

Point the remote control at VCR 2. Press the Number buttons 0, 0, 1 or 0, 0, 2. (See Helpful Hints at right.)

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

Press the PLAY button on VCR 1 and the REC(ord)/OTR button on VCR 2 at the same time.

To stop recording, press the STOP/EJECT button on VCR 2 once, then stop the tape on VCR 1.

- If you use the AUDIO and VIDEO IN jacks on the back of VCR 2, press Number buttons 0, 0, 1. L1 will appear on the screen.
- If you use the AUDIO and VIDEO IN jacks on the front of VCR 2, press Number buttons 0, 0, 2, L2 will appear on the screen.
- 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 supplied.
- The illustration uses two VCRs just like yours. Different VCRs may operate differently.

# 34 Repeat Play

Follow the steps below to program the VCR to play a tape over and over. Make sure:

- The VCR is on and is in VCR position. The VCR/TV light will appear on the front panel. If it does not, press the VCR/TV button once
- There is a tape in the VCR.

1

Press the MENU button repeatedly until the VCR SET UP menu appears.

VCR SET UP

→ SATELLITE LINK
AUTO REPEAT
RENTAL
AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP

2

Press the PLAY button or the STOP button repeatedly to select AUTO REPEAT.

VCR SET UP

SATELLITE LINK

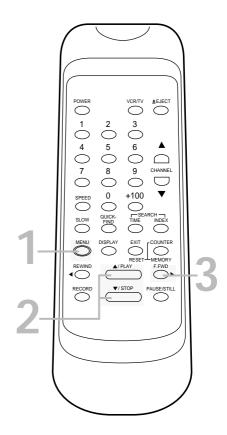
→ AUTO REPEAT
RENTAL
AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP

3

Press the F.FWD button so that [ON] appears next to AUTO REPEAT. Tape playback will begin immediately. AUTO REPEAT ► will appear on the screen briefly.

(If you are fast forwarding or rewinding the tape, you must first press the COUNTER RESET/EXIT button to remove the menu, then press the PLAY button to begin tape playback.)

The VCR will play the tape to the end, rewind it, then play it again. (TV programming will appear on the screen while the tape is rewinding.)



- To cancel AUTO REPEAT, follow steps 1-2 above. At step 3, press the F.FWD button so that [ON] no longer appears beside AUTO REPEAT. Press the COUNTER RESET/EXIT button.
- The COUNTER MEMORY button does not function if AUTO REPEAT is set to [ON].
- The real-time counter memory is cancelled if AUTO REPEAT is set to [ON].

#### Forward and Reverse Searching (SP/LP/SLP)

1

During tape playback, press and release the F.FWD button or the REWIND button. A fast forward or reverse picture search will begin.

2

To return to playback, press the PLAY button.

#### Super High Speed Searching (LP/SLP)

1

During tape playback, press the F.FWD button or the REWIND button, then press again. The VCR will now search in super high speed.

2

To return to playback, press the PLAY button.

#### Viewing a Still Picture

1

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

NOTE: You can advance the still picture frame by frame by pressing the PAUSE/STILL button repeatedly.

2

To release the still picture and return to normal playback, press the PLAY button.

#### Viewing a Slow Motion Picture

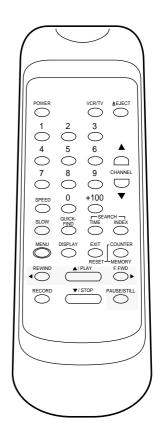
1

During tape playback, press the SLOW button. The tape will play in slow motion.

NOTE: You can control the speed of slow motion playback by pressing the F.FWD button (faster) or the REWIND button (slower).

2

To release Slow mode and return to normal playback, press the PLAY button.



- Slow and Still modes will automatically switch to Stop mode after five minutes to protect the VCR and the tape from damage.
- SP/LP/SLP means this feature will work with tapes recorded in Standard Play, Long Play, or Super Long Play.
- LP/SLP means this feature will work with tapes recorded in Long Play or Super Long Play. For details about tape speed, see page 45.

# 36 Rental Play

This function enables you to improve the picture quality when playing worn cassettes such as those rented from a video store. Make sure:

- The VCR is on and is in VCR position. The VCR/TV light will appear. If it does not, press the VCR/TV button once.
- There is a tape in the VCR.

1

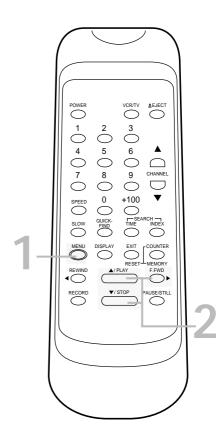
During tape playback, press the MENU button repeatedly until the VCR SET UP menu appears.



2

Press the PLAY button or the STOP button repeatedly to select RENTAL. Then, press the F.FWD button. The menu will disappear, and RENTAL ON or RENTAL OFF will appear on the screen for five seconds. Each press of the F.FWD button within five seconds will turn RENTAL to ON or OFF.





#### Helpful Hint

 You may only set RENTAL to ON or OFF during tape playback. Follow the steps below to reset the real-time counter to zero at a tape location you want to refer to later. Make sure:

- The VCR is on and is in VCR position. The VCR/TV light will appear. If it does not, press the VCR/TV button once.
- There is a tape in the VCR.

1

Play, fast forward, or rewind a tape to the location that you would like to refer to later. **Press the STOP button to stop the tape.** 

2

Press the COUNTER RESET/EXIT button repeatedly to reset the real-time counter to zero.



3

Press the COUNTER MEMORY button so that M appears on the screen beside the real-time counter.

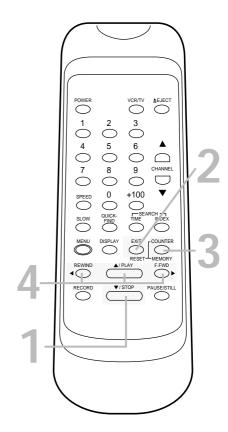


4

To go to a tape location where the real-time counter was reset to zero, press the REWIND button or the F.FWD button when playback is stopped.

When the tape reaches the point at which the real-time counter was reset to zero, the tape will stop.

Press the PLAY button to watch the tape.



- You may only set the real-time counter memory at one location at a time. If you set the real-time counter to zero at a second location, the previous real-time counter to zero setting will be erased.
- To erase the real-time counter memory, press the COUNTER MEMORY button repeatedly so that the M disappears from the screen.
- The COUNTER MEMORY button does not function if AUTO REPEAT is set to [ON]. Details are on page 34.

# 38 Index Search

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

You may skip over programs by following the steps below. Before you begin, make sure:

- The VCR is on and is in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)
- There is a tape in the VCR.

1

Press the MENU button repeatedly until the SEARCH SELECT menu appears.



Press the PLAY button or the STOP button repeatedly to select INDEX SEARCH. Then, press the F.FWD button.

3

Within 30 seconds, press the PLAY button or the STOP button repeatedly until the number of programs that you want to skip appears beneath INDEX SEARCH on the screen.

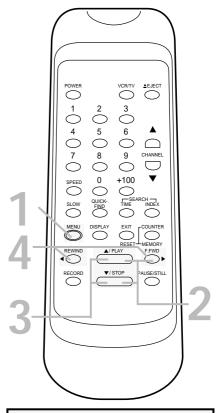
This number should include the current program. For example, if you are currently viewing program 2 and you want to skip to program 5, select 03 to skip three programs (2, 3, and 4). Playback will begin at program 5. If you want to skip to program 1, select 02 to skip two programs (2 and 1). Playback will begin at program 1.



While the number of programs is flashing, press the REWIND button or the F.FWD button.

The VCR begins rewinding or fast forwarding to the beginning of the desired program. When the program is reached, the VCR will start playback automatically.





- You may also activate the Index Search by pressing the INDEX SEARCH button. Then, continue from step 3.
- Every time an index mark is passed during rewinding or fast forwarding, the number of programs beneath INDEX SEARCH on the screen decreases by one.
- Up to 20 index marks may be searched.
- This function is not available during recording.
- Press the STOP button to stop the search.
- To exit Index Search mode, press the COUNTER RESET/EXIT button.
- The time gap between index marks should be greater than 1 minute for SP recording, 2 minutes for LP recording, and 3 minutes for SLP recording.
- If the end of the tape is reached during an Index Search, the VCR will cancel the search and rewind the tape. Details are on page 41.

The Time Search function allows you to go to a specific point on a tape. You will enter the exact amount of playback time that you wish to skip in order to reach the specified point.

Make sure:

- The VCR is on and is in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)
- There is a tape in the VCR.

1

Press the MENU button repeatedly until the SEARCH SELECT menu appears.

SEARCH SELECT

→ QUICK-FIND
INDEX SEARCH
TIME SEARCH

2

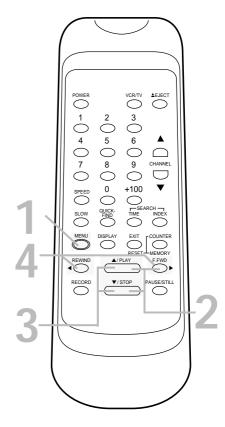
Press the PLAY button or the STOP button repeatedly to select TIME SEARCH. Then, press the F.FWD button.



Within 30 seconds, press the PLAY button or the STOP button repeatedly until your desired length of time appears. (Example: 2:50 for 2 hours 50 minutes) You may also press and hold the PLAY button or the STOP button until you reach the desired length of time.

4

Within 30 seconds, press the REWIND button or the F.FWD button. The VCR begins rewinding or fast forwarding to the specified point. The time counts down on the screen beneath TIME SEARCH as the searching progresses. When the tape finishes rewinding or fast forwarding, the VCR will start playback automatically.



- You also may activate the Time Search by pressing the TIME SEARCH button. Then, continue from step 3.
- You can set a Time Search for up to 9 hours, 59 minutes (9:59).
- Time Search is not available during recording.
- To exit Time Search mode, press the COUNTER RESET/EXIT button.
- To cancel a Time Search already in progress, press the STOP button.
- If the end of the tape is reached during a Time Search, the VCR will cancel the search and rewind the tape. Details are on page 41.

# 40 Quick Find

The Quick Find feature locates the beginning of each recording on a tape, then plays the first portion of the recording at high speed for 30 seconds. After it plays the portion, the VCR fast forwards the tape to the next recording. This process is repeated until the end of the tape is reached, or until you stop the Quick Find. To start a Quick Find, press the QUICK-FIND button on the remote control, or follow the steps below.

1

Press the MENU button repeatedly until the SEARCH SELECT menu appears.

SEARCH SELECT

→ QUICK-FIND
INDEX SEARCH
TIME SEARCH

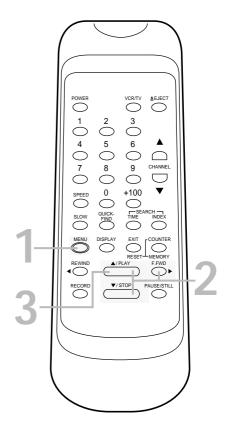
2

Press the PLAY button or the STOP button repeatedly to select QUICK-FIND, then press the F.FWD button. The VCR will fast forward the tape to the beginning of the next recording. The VCR will play the tape at high speed for 30 seconds, then go to the next recording.

To skip immediately to the beginning of the next recording on the tape, press the QUICK-FIND button on the remote control.

3

To resume normal tape playback, press the PLAY button.



- There must be a tape in the VCR.
- This function will not operate during a recording.
- To cancel a Quick Find that is in progress, press the STOP button.
- When the end of a tape is reached during a Quick Find, the VCR will rewind the tape. Details are on page 41.

# **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. (If a timer recording is set, you may have to press the POWER button to turn on the VCR. Make sure you turn off the VCR for the timer recording later. If you insert a tape without a record tab when a timer recording is set, the VCR will eject the tape.)

## Automatic Rewind, Eject, Off

When a tape is played, fast forwarded, or recorded to its end, the VCR will rewind the tape to the beginning, eject the tape, and turn itself off.

If the real-time counter memory is set, the VCR will only rewind the tape to the point at which the counter is set to zero, then stop. The VCR will not eject the tape or shut 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, a tape can only be ejected with the power on. Be sure to insert a tape for the Timer Recording, then turn off the VCR power.

## **Automatic Tracking Adjustment**

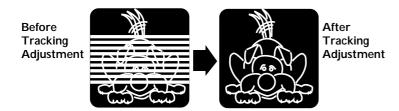
The VCR automatically adjusts tracking to give you the best possible picture quality. With some recordings, however, you may get a better picture using the manual tracking controls (see below).

#### Manual Tracking

To adjust the tracking manually, press the CHANNEL ▲/▼ buttons on the VCR during playback.

NOTES:

- Tracking is returned to automatic tracking adjustment when a tape is inserted or when the STOP button is pressed to halt playback.
- Automatic tracking adjustment will not work during slow motion playback. Instead, use the CHANNEL ▲/▼ buttons on the VCR or on the remote control to reduce noise lines in slow motion playback.
- Manual tracking will not operate when the VCR is in Still mode.
- Use the CHANNEL ▲/▼ buttons on the VCR or on the remote control to remove vertical jitter in a Still picture.



# 42 MTS Broadcast Stereo System

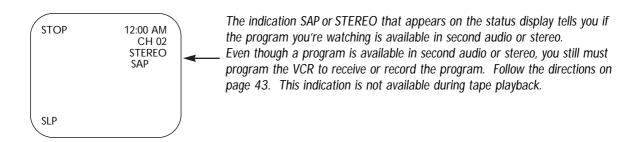
Your VCR can play recordings broadcast in Hi-Fi (high fidelity) stereo, which produces a crisp, clear sound from two sources. Your VCR also can play tapes recorded in a second audio (usually, that means your program is recorded in a second language). Of course, your VCR will play tapes recorded in monaural (single-source) sound as well.

Your VCR also will record in Hi-Fi stereo or in second audio, so when you play back that tape on the VCR, it will be in stereo or second audio.

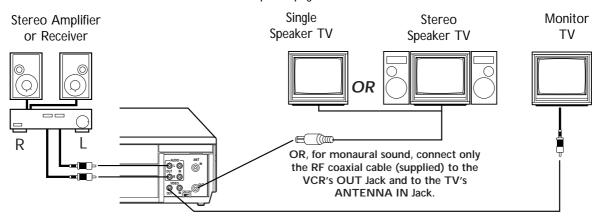
Read the directions on this page to familiarize yourself with your VCR's stereo and second audio setups. Then follow the directions on page 43 to record in stereo or second audio and the directions on page 44 to play back tapes recorded in Hi-Fi stereo.

# **Understanding On-Screen Displays**

When you receive a signal from a channel you're watching, portions of the on-screen display shown below will appear when you press the DISPLAY button on the remote control.



To record and play back programs broadcast in stereo, even if you have a Single Speaker TV, just use one of the connections shown, then follow the steps on pages 43-44.



For stereo sound, connect the audio cables to the AUDIO OUT Jacks on the VCR and to the AUDIO IN Jacks on the Stereo Amplifier or Receiver. Then, connect the video cable to the VIDEO OUT Jack of the VCR and to the VIDEO IN Jack of a monitor TV.

Make sure:

The VCR is on and is in VCR position. The VCR/TV light will appear. If it does not, press the VCR/TV button once.

1

Press the MENU button repeatedly until the VCR SET UP menu appears.



2

Press the PLAY button or the STOP button repeatedly to select TV STEREO or SAP. Press the F.FWD button, then [ON] will appear to the right of your selection.

```
VCR SET UP

SATELLITE LINK
AUTO REPEAT
RENTAL
AUTO RETURN
AUDIO OUT
TV STEREO [ON]
SAP
```

3

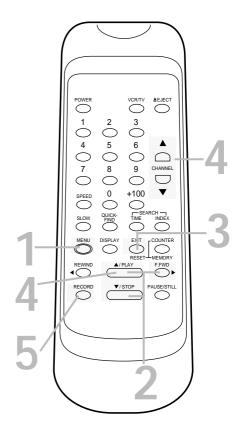
Press the COUNTER RESET/EXIT button.

4

To play a tape, press the PLAY button. Or, to record, select the channel to be recorded using the CHANNEL △/▼ buttons, then go to step 5.

5

Press the RECORD button to start recording.



- You can only receive and record in stereo or second audio programs that are broadcast in second audio or stereo. You can only play in stereo or second audio tapes that were recorded in stereo or second audio. Please see page 42 to determine if the program you want to watch/record is being broadcast in stereo or second audio.
- If you select second audio when second audio is not available, the VCR will record normal audio.

# 44 Hi-Fi Stereo Sound System

Multi-Channel Television Sound System broadcasts are automatically recorded in Hi-Fi stereo sound. To play in Hi-Fi stereo tapes recorded in Hi-Fi stereo, however, you'll need to follow the steps below. Make sure:

 The VCR is on and is in VCR position. The VCR/TV light will appear. If it does not, press the VCR/TV button once.

1

Press the MENU button repeatedly until the VCR SET UP menu appears.



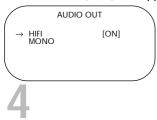
2

Press the PLAY button or the STOP button repeatedly to select AUDIO OUT. Then, press the F.FWD button.

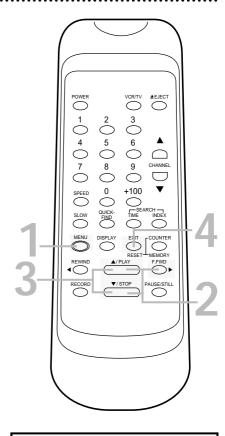


3

Press the PLAY button or the STOP button repeatedly to select HIFI. [ON] will appear to the right of HIFI on the screen.



Press the COUNTER RESET/EXIT button.



- All programs are automatically recorded in both Hi-Fi stereo sound and in monaural sound.
- The audio level of a tape recorded in Hi-Fi stereo will differ from the audio level of a tape not recorded in Hi-Fi stereo.
- Normally, HIFI should be selected from the AUDIO OUT menu for playback with Hi-Fi sound. But, you can change the selection to MONO if you want monaural audio playback. To do this, follow steps 1-2 above. At step 3, press the PLAY button or the STOP button repeatedly to select MONO. Press the COUNTER RESET/EXIT button. HIFI will disappear from the status display.
- If you play non-Hi-Fi tapes while the VCR is set to HIFI, HIFI will not appear on the status display and the tape will play in monaural sound.
   Please see additional notes on page 47.

<u>AUDIO IN/OUT Jacks:</u> 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 system (OUT).

<u>Automatic Channel Setup:</u> process in which the VCR scans all available channels and places the ones you receive in its memory. Then, when you push the CHANNEL ▲/▼ buttons, 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 all standard channels can be received without a Cable Box/DBS.

Cable Box/DBS Output Channel: Channel 3 or 4.

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

Frame: a single still picture.

<u>**HQ**</u>: high quality; a feature in the VCR circuitry which provides enhanced picture detail.

<u>Line Input:</u> The channel to which you set your VCR during dubbing. If you use the AUDIO and VIDEO IN jacks on the front of the VCR, select channel 002 (L2).

If you use the AUDIO and VIDEO IN jacks on the back of the VCR, select channel 001 (L1).

If you accidentally enter Line Input mode, press the CHANNEL ▲/▼ buttons or use the Number buttons to select another channel.

Mode: a VCR operation.

<u>OTR:</u> One-Touch Recording; programming a timed recording that starts immediately and records for 30 minutes to eight 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.

**RF coaxial cable:** 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 may also use a screw-on type if you prefer.

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

<u>Tape Speeds:</u> how fast the tape travels during a recording or during playback.

- SP (standard play) fastest tape speed (recording time for a T120 tape is approximately two hours); best picture quality.
- LP (long play) average tape speed; playback only.
- SLP (super long play) slowest tape speed (recording time for a T120 tape is approximately six hours).

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 system (OUT).

# 46 Helpful Hints

If you are having problems with your product, check this 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.

- Follow the steps on page 11 to select a language and set up channels, if necessary. Then, follow the steps on pages 14-15 to reset the clock.
- Timer recordings may be lost if the power fails for more than one minute. Reprogram the timer recordings. *Details are on pages 26-29.*

### The remote control will not operate the VCR.

- Aim the remote control directly at the VCR's remote sensor. Details are on page 21.
- · Remove all obstacles between the remote control and the VCR.
- Inspect and/or replace the batteries in the remote control. Details are on page five.

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

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

#### 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 switches the tape mechanism from Stop to Play in just one second.

#### 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 six-10.
- · Make sure the tape has a record tab. Details are on page five.

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

- Make sure the recording start and stop times are set correctly. Details are on pages 26-29.
- Make sure a tape is in the VCR and the tape has a record tab. Details are on page five.
- Make sure the VCR power is off.
- Make sure the clock is set. Details are on pages 14-15.
- The VCR may not perform or continue a timer recording if a power interruption of more than one minute occurs before or during the timer recording, even if the power comes back on afterward. Set up channels and reset the clock before re-programming the timer recording(s).
- Finish programming a timer recording at least five minutes before the recording is scheduled to begin.
- If, after programming a timer recording, you turn off the VCR without inserting a tape, the TIMER light will blink. Insert a tape with the record tab intact.
- Noon is 12 p.m. Midnight is 12 a.m.
- If the tape runs out before the recording ends, the VCR will stop, eject the tape, and turn itself off. The TIMER light will blink. (The Auto Return feature will not operate.)
- If a tape without a record tab is inserted (when the power is off for a timer recording), the VCR will eject the tape. The TIMER light will blink. Insert a tape that allows recording.
- If the preset time for a timer recording comes up during a One-Touch Recording, the OTR has priority.
- When two timer recordings overlap, the timer recording with the earliest start time will have priority. When the earliest program has finished recording, the next program number will begin recording.

#### Tape cannot be removed.

- Make sure the power plug is completely connected to an AC (alternating current) outlet.
- You have set a timer recording. Turn on the VCR power, then eject the tape. Be sure to insert a tape and turn off the VCR for your timer recording.

#### Tape cannot 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 on the center of the tape when putting it in the VCR. Never force the tape into the VCR.
- If a timer recording is set, the VCR will not accept a tape that does not have a record tab. You may only insert a tape with the record tab intact.

# VCR ejects the tape when the RECORD 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 five.

#### 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 page seven.
- Make sure the VCR is in VCR position. (The VCR/TV light will appear. If it does not, press the VCR/TV button once.)
- Make sure channel 3 or 4 is properly adjusted.
- · Adjust the tracking. Details are on page 41.
- TVs placed too close to the VCR can cause interference during tape playback. Move the VCR away from the TV.

#### TV programs cannot be watched normally.

- Press the VCR/TV button to put the VCR in TV position. (The VCR/TV light will disappear.)
- Check the connections between the VCR, TV, antenna/cable, and Cable Box/DBS (if applicable). *Details* are on pages six-10.

#### The reception on all channels is poor.

· You may need to tune your TV again.

#### Line Input

• If you accidentally enter Line Input mode (L1 or L2 will appear on your TV screen briefly), press the CHANNEL ▲/▼ buttons or use the Number buttons to select another channel.

#### Hi-Fi Stereo Sound

- During playback, Hi-Fi audio may temporarily revert to normal audio when you adjust tracking. This is normal
- When connecting the VCR to a stereo TV, 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, and if the TV is in Line (Auxiliary) Input mode.
- When you connect the AUDIO OUT jacks on the VCR to the AUDIO IN jacks on your TV, the stereo light on the TV might not glow. But, as long as the status display indicates you are receiving a stereo signal, you are receiving a stereo signal. This is normal.
- Only tapes recorded in Hi-Fi audio will play back in Hi-Fi audio. Tapes recorded in normal audio will play back in monaural audio.

# 48 Specifications

#### Video Heads

Four heads - Hi-Fi

## 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; 60Hz

## **Power Consumption**

16W

#### **Operating Temperature**

41°F (5°C) to 104°F (40°C)

#### **Relative Humidity**

10% to 80%

#### Weight

5.73 lbs. (2.6 kg.)

## **Dimensions**

14-3/16" (W) x 3-1/16" (H) x 9-3/16" (D) (360 mm x 92mm x 230mm)

## **Tuner Broadcast Channels**

VHF 2-13, UHF 14-69

## Cable TV Channels

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.

#### **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.
- 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 labeled 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.

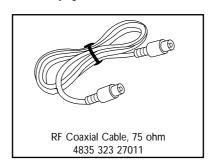
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# SUPPLIED ACCESSORIES

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:

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









This owner's manual is made of recyclable materials. Remember to recycle!



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