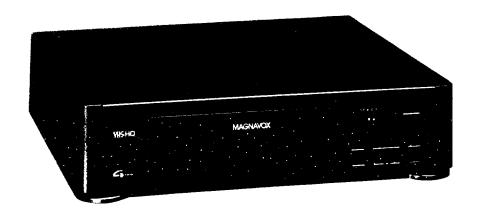
# MAGNAVOX

# VIDEO CASSETTE RECORDER OWNER'S MANUAL



**MODEL VR3440** 

Please See Inside
For 3 Important
Steps To Take
Before Operating
Your New Product.

# Please Follow These Three Important Steps To Get The Most From Your Product

#### RETURN YOUR OWNER'S REGISTRATION CARD WITHIN 10 DAYS



Registering your purchase is an essential step to guarantee you'll receive all of the benefits you're entitled to as a MAGNAVOX product owner. Complete and mail your Owner's Registration Card today to ensure your right to warranty verification, owner confirmation, model registration, plus a wide variety of special services and savings.

# KNOW THESE SAFETY SYMBOLS.



CAUTTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

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

# READ OPERATING INSTRUCTIONS CAREFULLY.



The information in this manual can help you take full advantage of your product's many features, and ensure years of safe, reliable operation. So don't miss out. Read the enclosed instructions, safety tips and warranty information today.

# **MAGNAVOX**

# Congratulations On Your New Purchase ... And Welcome To The MAGNAVOX Family!

Dear MAGNAVOX Family Member:

Thank you for your confidence in MAGNAVOX. You've selected one of the best-built, best-backed products available today.

We appreciate your support, and we'll do everything we can to keep you happy with your purchase for many years to come. After all, you're the reason we're in business!

As a MAGNAVOX family member, you're entitled to a world of special privileges - and our uncompromising commitment to your total satisfaction. Your MAGNAVOX product is protected by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase qualifies you to receive advance information on exciting new products from MAGNAVOX, convenient access to our home shopping network for special products and accessories, plus factory-direct rebates and discounts on your future MAGNAVOX purchases.

All-of this is our way of saying "thanks" for joining the MAGNAVOX family.

To start taking advantage of these great benefits, just remember to return your MAGNAVOX Owner's Registration Card.

Simply complete, detach and mail us your Owner's Registration Card today. And enjoy your new purchase with our best wishes!

Sincerely,

Donald F. Johnstone President and Chief Executive Officer

#### 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.



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

**Safety Precautions** 

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

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

#### **CAUTION:**

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

#### PHILIPS CONSUMER ELECTRONICS COMPANY

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

#### ATTENTION:

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

#### Note to CATV System Installer.

This reminder is provided to call the CATV (Cable TV) System installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

# 4 Introduction

w e are pleased to introduce you to one of the most popular entertainment products available today. You have a legal description of your VCR (Video Cassette Recorder) when you record the Serial and Model Numbers in the spaces provided either on page two (just below the president's signature) or on the Warranty page at the back of this owner's manual. These numbers are located on the back of the VCR. Keep this manual and numbers near your VCR for quick reference or in case you should have to call for help.

This owner's manual is designed for you. To help you, keep this color principle in mind: Blue is for Beginning, Green is for Getting Acquainted, Tan is for Taking on More, and Black is for Back-Up Information.

#### Blue is for Beginning

The headlines and first (large) letters of introduction in this opening section are blue. This says you are at the beginning. The features discussed on these pages are interrelated. To get the most enjoyment out of your VCR you should do everything in the Blue section. *Blue is for Beginning*.

#### **Green is for Getting Acquainted**

The headlines and first letters in the second section are green. This says buttons and important areas of your VCR and remote control are highlighted and briefly discussed here. This section is for quick reference and can be used at any time. You can even look at it first. Green is for Getting Acquainted.

#### Tan is for Taking On More

The headlines and first letters in this section are tan. This says you are taking on more features. The pages here are not interrelated, unless you see "(Continued on next page.)" at the bottom. Each function can be done separately. *Tan is Taking On More*.

#### Black is for Back-Up Information

The headlines and first letters in this, the last section are black. This says there is additional information here you can look at when you have a question. Or if you're just curious. Definitions are here. So are accessories, other ways of hooking up your VCR, and an index that helps you find information more quickly. Black is for Back-Up Information.

#### **Numbered Steps and Shaded Areas**

Also remember: numbered steps and blue-shaded areas in this manual are the steps necessary to complete a task. You must do all the blue-shaded areas for each feature to accomplish that feature. There are, however, tan-shaded areas. These areas tell you how to cancel or alter a feature you have set up. Clear-shaded areas in boxes provide additional information you may find helpful. The color principle is the same: Blue for Beginning and Tan for Taking on More.

You are now ready to begin.

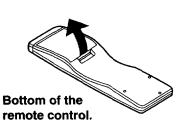
# <u>Features</u>

- HQ (High Quality) System
- Frequency Synthesizer Tuning with Auto Set Feature
- On Screen Display
- Indicator Panel
- Real Time Counter
- Special Effects Playback
   Fast Search
   Still
   Variable Slow
   Frame Advance

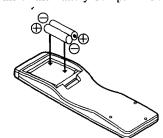
- Auto Tracking
- One Touch Recording
- Unattended (Timer) Recording
- Auto Operation Functions
- Head Cleaner
- Wireless Remote Control

# Load the Batteries as Follows:

1 Remove the Battery Compartment lid from the bottom of the remote control.



2 Install two batteries as indicated inside the Battery Compartment.



3 Replace the lid.

#### **Battery Replacement Caution**

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

NOTE:

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

# **2** Types of Video Cassettes and Tape Speeds

You can change the recording speed for a tape using the Tape SPEED button.

2 Recording speeds : SP, SLP 3 Playback speeds : SP, LP, SLP

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

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

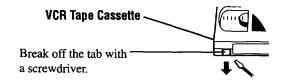
<sup>\*</sup>During Playback, the VCR selects the tape speed, SP, LP, or SLP, automatically.

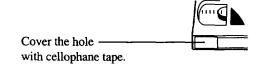
# 3 Erase Protection

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

• To prevent accidental erasure:

• To record again:

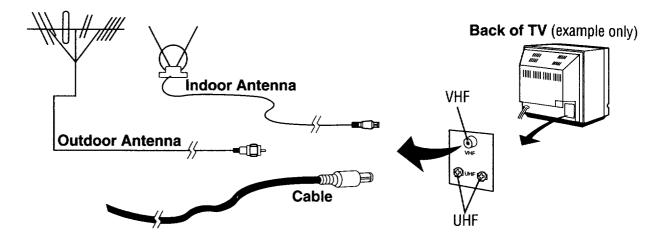




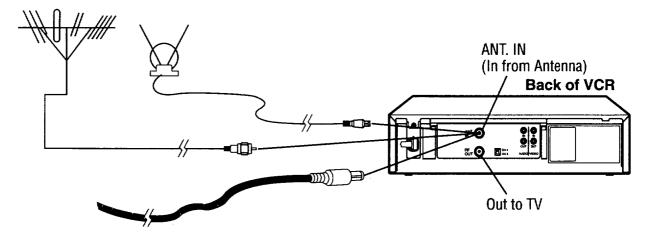
# 6 Getting Hooked Up

VCR to TV Connection (For other possible connections, please see pages 26-29.)

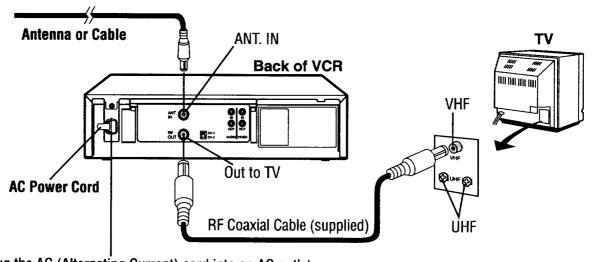
# Step 1: Disconnect the Antenna or Cable from Your TV.



Step 2: Connect Your Antenna or Cable to Your VCR.



**Step 3:** Connect Your VCR to Your TV.

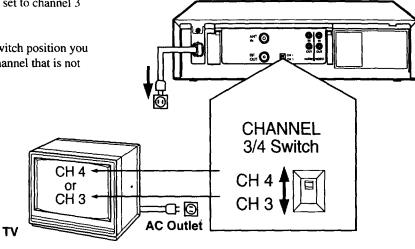


Plug the AC (Alternating Current) cord into an AC outlet.

# 2 Select Channel 3 or 4

Set the CH3/CH4 switch on the back of the VCR to channel 3 or 4. To operate the VCR with your TV, set your TV to the same channel. For example, if your switch is set to channel 3 (CH 3), turn your TV to channel 3.

To avoid local interference, the CH3/CH4 switch position you choose should correspond to the local TV channel that is not used or least used.



**Back of VCR** 

Now, play a tape to see if you have made the right connections.

# Playing a Tape

Make sure..

the batteries are loaded in the remote control and the connections on pages 6 and 7 have been completed before continuing to the steps below.

# At the TV



Turn the TV on. Set the TV to the same channel as the switch on the back of the VCR (CH3/CH4).

# At the VCR



Insert a cassette.\*

The VCR (Video Cassette Recorder) Power will come on.

# Start Playback



Press the PLAY button.

• The VCR mode is automatically set. "VCR" indicator will light.

# Stop Playback



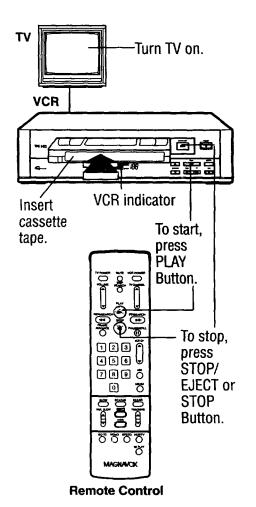
Press the STOP/EJECT button to stop playback.

- Press the REWIND button to fully rewind the tape.
- Press the STOP/EJECT button again to remove the tape.

\* If the record tab on a cassette (page 5) is removed, playback will start automatically.

• If a cassette is already in the VCR, just press the POWER button.

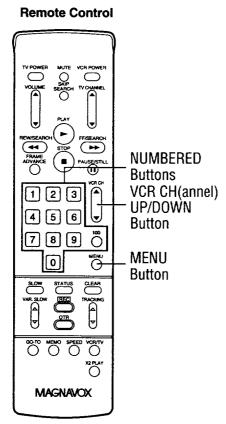
Now turn to the next page and place local channels in the VCR. This puts the VCR in the "NORMAL TV" or "CABLE TV" mode and places channels in the VCR's memory.



# 8 Placing Local Channels in the VCR

7 ith this feature, you can program your VCR (Video Cassette Recorder) to receive only the channels available in your area. You can program your VCR to receive either Normal TV channels or Cable TV channels, but not both. With the Add/Delete feature you can add or delete any channel. You must use your remote control.

# **Automatic Channel Setting**



#### Make sure...

the steps on pages 6-7 have been completed first, your TV and VCR are on, and your remote control works.

## Display the Tuner Set Up Mode

First, press the MENU button to display the main menu screen. Now, press the NUMBERED 3 button to

select "TUNER SET UP."

The screen at right appears.

## Select the Antenna System

# TO SELECT PUSH NO SHOWN NORMAL TV 2 CABLE TV 3 AUTO PROGRAMMING 4 ADD/DELETE 5 CH MEMORY

TV Screen

TO END PUSH MENU

Press the 2 button to change from "NORMAL TV" to "CABLE TV." Press the 1 button to change from "CABLE TV" to "NORMAL TV." "(ON)" appears beside your selection.

## Start Auto Program

Press the NUMBERED 3 button to start Auto Programming. The display shows that Normal TV or Cable TV auto programming is

proceeding. The memorized channel numbers are displayed on the TV screen.

for example

# MEMORIZED CHANNEL NORMAL TO END PUSH MENU

# Finish Auto Program

After auto program is complete, the lowest numbered channel stored in the VCR's memory will appear on the TV screen. To view other stored channels, press the VCR CH(annel) UP/DOWN button. Line mode is always stored in the VCR's memory.

"L" appears on the VCR's front panel when selected using the VCR CH(annel) UP/DOWN button.

# Adding and Deleting a Channel

- 1. Press the MENU button to display the menu screen. Next, press the 3 button to select "TUNER SET UP."
- 2. Press the 4 button to select the Add/Delete channel feature. The display shown below next to step 3 will appear.
- 3. Press two numbers to add or delete channels up to 100. For 100 or more, first press the 100 button, then two numbers.
  - Always enter a "0" before any single-digit entries. For example, 0, then 6 for "6."
  - Refer to "Using the 100 Button" to enter a three-digit number.
- 4. Press the 1, 2. or 3 button to "ADD." "DELETE," or "SELECT ANOTHER CH" the channel for confirmation. If "3" is selected the display in step 3 will

re-appear. To exit the Add/Delete mode. Press the MENU button once.

SELECT CHANNEL NUMBER CH - ※-TO END PUSH MENU TO SELECT PUSH NO SHOWN

CH 12 1 ADD 2 DELETE 3 SELECT ANOTHER CH TO END PUSH MENU

## Channel Memory Review

First, press the MENU button. Next, press the 3 button to select "TUNER SET UP."

Now, press the 5 button to select "CH MEMORY."

The memorized channel list will appear on the TV screen. Now, press the 1 button to see the next channel list. Press the 2 button to see the previous channel list. To exit, press the MENU button.

## Using the 100 Button

To select channel numbers 100 to 125 with the NUMBERED buttons, first press the 100 button and then enter the remaining two numbers. For example for channel 105, press NUMBERED buttons 100,0,5.

A fter you have an antenna or cable system connected to your VCR, and the local channels stored in your VCR (Video Cassette Recorder) you can begin to watch TV channels using your VCR.\* You must use your remote control.

# Select TV Channels at the VCR for Viewing or Recording

 Turn your TV on. Set the TV to the same channel as selected on the back of the VCR: "CH.3." or "CH.4." (See page 7 for details.)

- Turn the VCR on. The VCR indicator lights on the front panel. If VCR indicator is not on, press the VCR/TV selector button.
- "TUNER" should be selected as the input source. See "Choose Input Source" below for details.
- Select Channels on the VCR using the VCR CH(annel) UP/DOWN buttons or the NUMBERED buttons on the remote control.

## **Choose Input Source**

(You may skip this step if "TUNER" is already selected.)

First, press the MENU button. Then, press the NUMBERED button 4 to select "INPUT SELECT." Next, press NUMBERED button 1 to select the choose "TUNER." To exit, press the MENU button once.



# Select TV Channels at the TV for Viewing

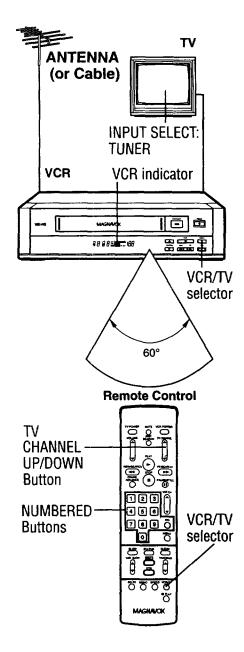
To Select TV Channels at the TV:

• Be sure that your TV is turned on.



- Turn the VCR off and select Channels using the TV channel Controls.
- If the VCR is left on and VCR indicator is lit, press the VCR/TV Selector button once (VCR indicator is turned off) and select Channels with the TV Channel controls.
- \* If you are not receiving channels, please repeat the steps on pages 6-8 in this book. Also, follow carefully the instructions listed above.

If the power should ever go out, repeat the steps on page 8.

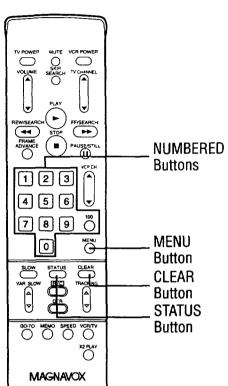


Point the transmitter toward the remote sensor, within the angle as shown in the illustration above.

# 0 Setting the Clock

ccurate clock time is a must for all types of timer recording. Your VCR (Video Cassette Recorder) will accurately maintain A its calendar up to DEC. 31, 2010, 11:59 PM once you have set the present day and time. You must use your remote control.

To Set the Clock



**Remote Control** 

#### Make sure...

- your VCR and TV are connected and turned on (see Pages 6-7).
- the VCR indicator says "VCR" (see page 9).
- to make each entry within 10 seconds, otherwise the VCR will exit the Clock Set mode and you will have to start over.

## Select the Clock Set Mode

Press the MENU button. Then press the NUMBERED 5 button to select "CLOCK SET" from the menu screen.

#### TV Screen



## Set the Time & AM or PM

First, press two NUMBERED

buttons for the hour, then two NUMBERED buttons for the minutes, and finally press "1" for AM or "2" for PM. For example, for 10:30 PM, press NUMBERED buttons 1-0, 3-0, 2.

- When setting the clock for the first time, entries that do not match the calendar will cause a "?" to appear.
- Always enter "0" before any single-number entries.
- To make corrections, press the CLEAR button repeatedly to move back to an item then enter the correct number.

## Set the Month, Day & Year

Press two numbers for the month, two numbers for the day, and two numbers for the year.

For example, for Feb. 9, 1992, press NUMBERED buttons 0-2, 0-9, 9-2.

• The day of the week appears

TIME 10 30 PM MONTH 米-----

TO CORRECT PUSH CLEAR TO END PUSH MENU

TIME 10:30 PM DATE 02/09/92 SUN TO CORRECT PUSH OF FAR

TO END PUSH MENU

## Start the Clock

Press the MENU button.

•Clock starts and the screen return to the program you were on.

•To display the time, press the STATUS button.

# To Reset the Clock

TO SELECT PUSH NO SHOWN

- 1 PROGRAM
- 2 ON SCREEN MODE 3 TUNER SET UP 4 INPUT SELECT 5 CLOCK SET
- TO END PUSH MENU

To reset the clock. press the MENU button. The TV and VCR must be on and the VCR in the "VCR"

mode. The menu

7.43

screen will appear. Press the NUMBERED 5 button and follow the clock set guide to re-enter the new date and time.

## To Display the Time

TO SELECT PUSH NO SHOWN

- 1 PROGRAM 2 ON SCREEN MODE 3 TUNER SET UP 4 INPUT SELECT 5 CLOCK SET
- TO END PUSH MENU

Press the MENU button. Next, press the NUMBERED 1 button to select "PROGRAM" from the menu screen. Then, press the NUMBERED 4 button to select "CALENDAR." A date and time overlay appears on the TV screen.

See page 18, "Calendar Indicator," for details.

Important Note: Power failures can cause you to lose both your clock setting and local channels placed in VCR's memory. Should this happen, peneat the stene an names & and 10 hefore doing anything else

Make sure...

the steps in "Getting Hooked Up" on pages 6-7 have been completed.

# At the TV Turn the TV

Turn the TV on. Turn to channel 3 if the VCR CH3/CH4 switch is set to "CH 3." Turn to channel 4 if the VCR is set to "CH. 4."

## At the VCR

Insert a cas
The power
If the casse

Insert a cassette with the record tab in place.

The power will come on.

If the cassette is already in the VCR, press the POWER button. Be sure that the VCR/TV selector is set to "VCR."

## **Choose Input Source**

(You may skip this step if "TUNER" is already selected.)

First, press the MENU button. Then, press the NUMBERED button 4 to select "INPUT SELECT." Next, press NUMBERED button 1 to select the choose "TUNER." To exit, press the MENU button once.

# Power On: Select channel 3 or 4. VCR indicator STOP Button Cassette CHANNEL REC(ord) Tape UP/DOWN Button Buttons

## Choose the Tape Speed

4

(You may skip this step if desired tape speed is already selected.) Press the Tape SPEED button on the remote control until the desired tape speed (SP, SLP) appears on the TV screen.

## Choose the Channel

(5)

Press the VCR CH(annel) UP/DOWN or NUMBERED buttons to select the channel to be recorded.

# Start Recording

6

Press the REC(ord) button on the VCR.

# Pause Recording To pause, press the PAI

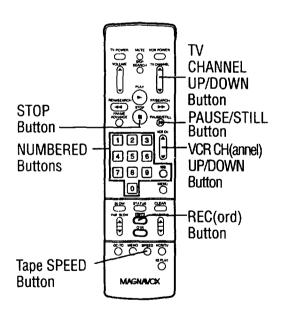
(7)

To pause, press the PAUSE/STILL button. To continue recording, press this button again.

# Stop Recording

8

To stop, press the STOP button.



**Remote Control** 

# To Watch Another TV Program While Recording

You can record a channel selected with the VCR channel controls and watch another channel selected with the TV channel controls.

- Set the VCR/TV selector to TV to select the TV mode.
   The VCR indicator and the TV broadcast being recorded will disappear.
- Select the other channel to be viewed on the TV using the channel controls on the TV.

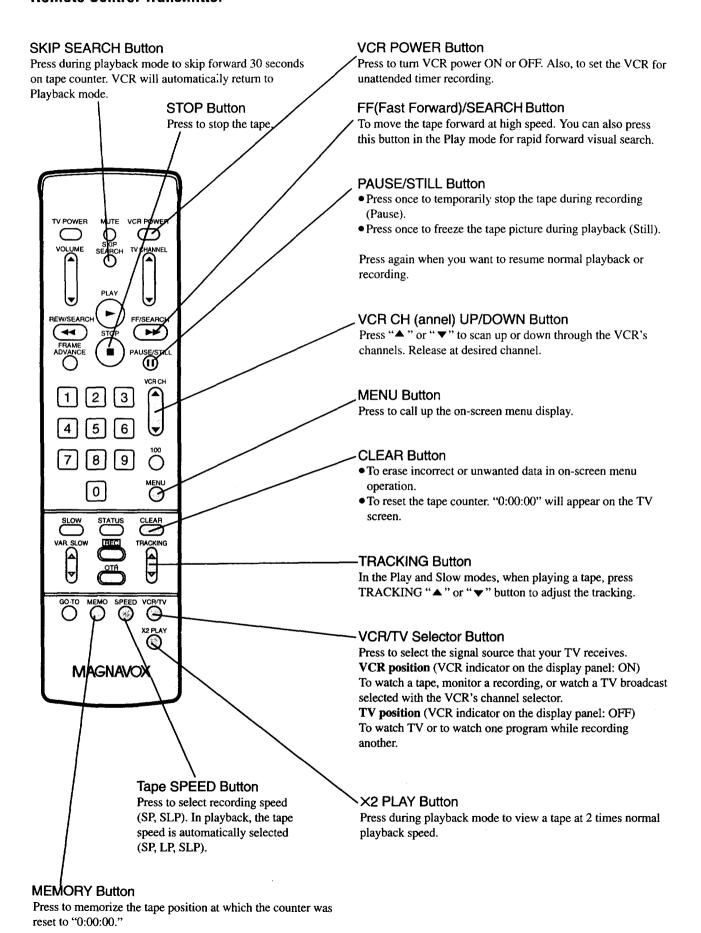
The program selected with the TV channel controls will appear on the TV screen, and the one selected with the VCR channel controls will be recorded on the tape.

Important Note: If you use a converter box or satellite system hook-up, you may not be able to do dus teamers.

**Note:** Other recording options are available. Please see pages 19–21.

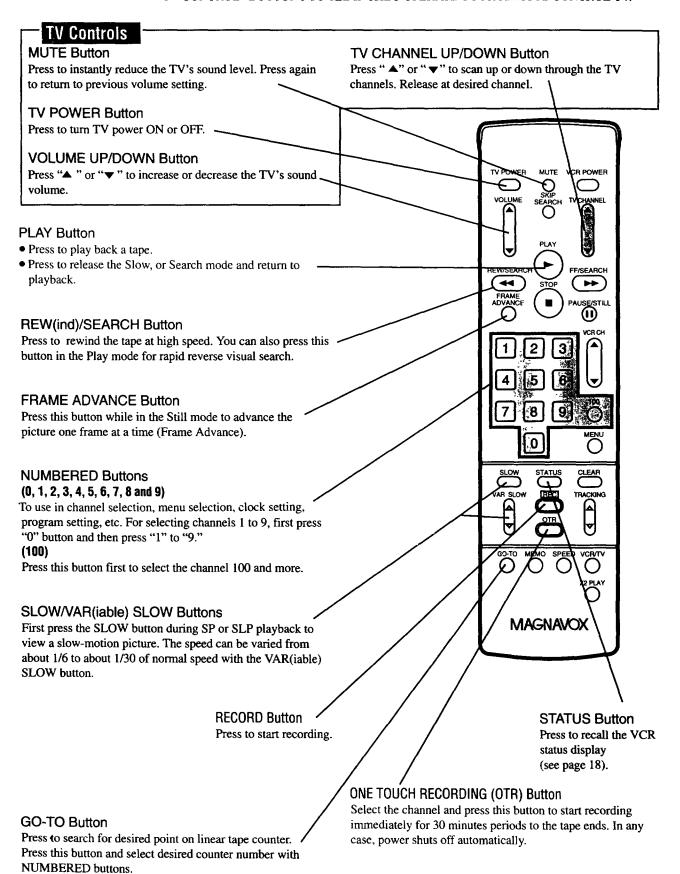
# 12 Description of Controls

#### **Remote Control Transmitter**

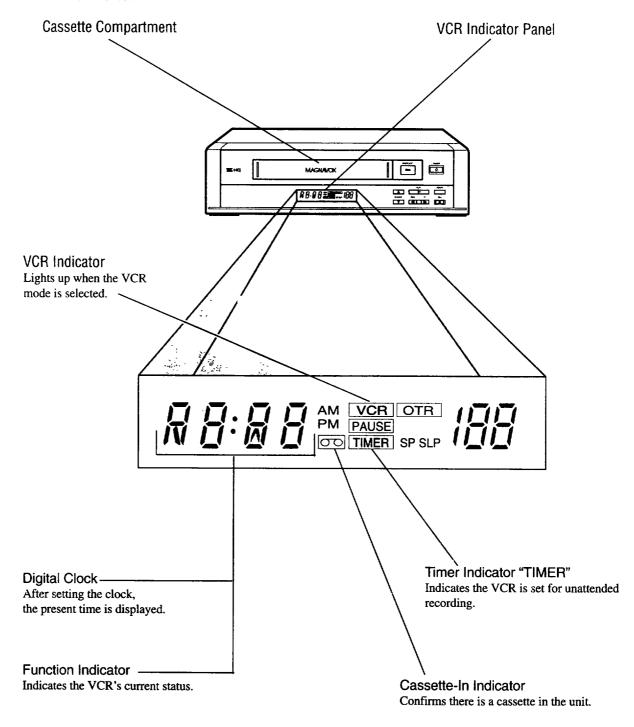


#### **Remote Control Transmitter**

THE TV CONTROLS ARE SET TO OPERATE MANY, BUT NOT ALL TVS. PUSH THE "TV CONTROL" BUTTONS TO SEE IF THEY OPERATE YOUR REMOTE CONTROL TV.

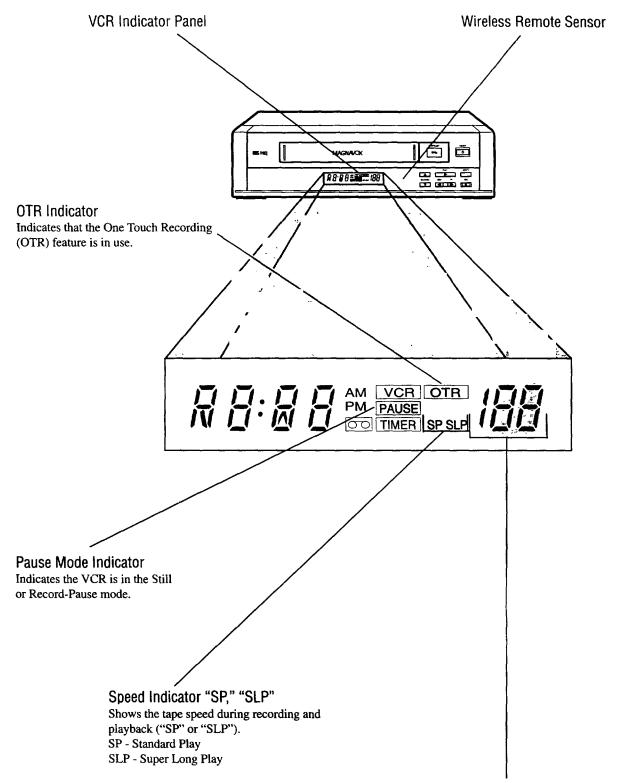


#### **VCR Indicator Panel**



: Playback
: Recording
: Fast forward
: Rewind

#### **VCR Indicator Panel**



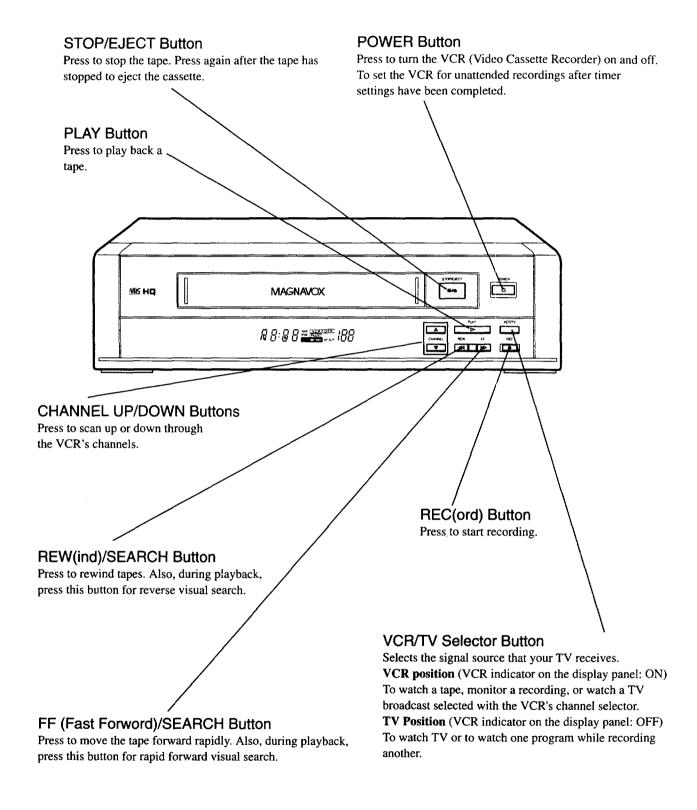
## Channel/Input Signal Indicator

Channel number indicator ("L" means External Line Input Signal selected).

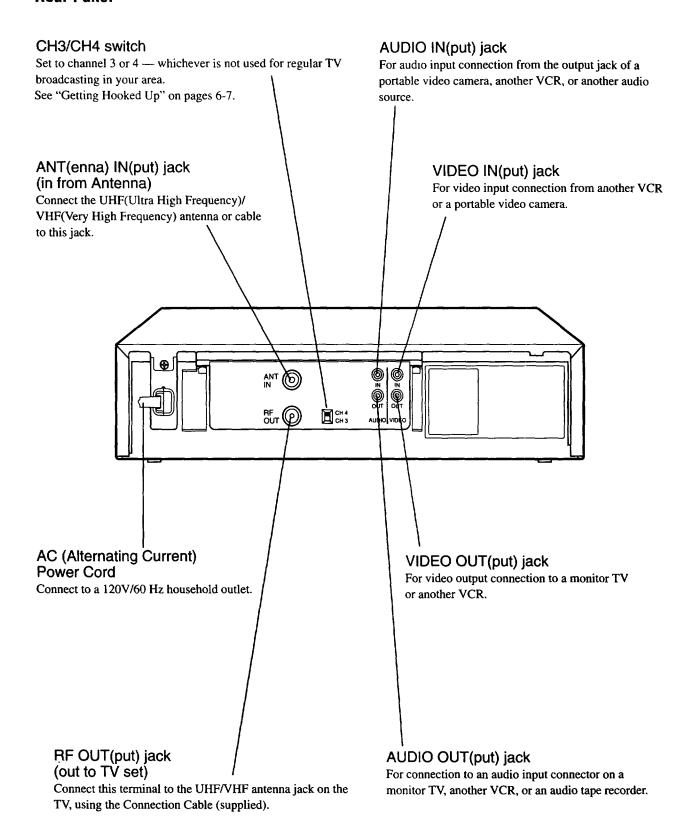
Select Line mode by pressing NUMBERED buttons 0-0.

To exit Line mode, press any other number.

#### **Front Panel**



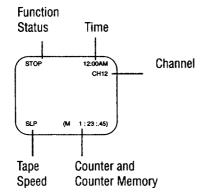
#### **Rear Panel**



# 18 On-Screen Displays (OSD)



TV Screen



**VCR Status Display** 

#### **OSD Main Menu Screen**

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

## **VCR Status Display**

- 1. Press the MENU button.
- 2. Next, press the 2 button to select "ON SCREEN MODE"
- Now, press the 1,2, or 3 button to select "ON SCREEN ON",
   "COUNTER ONLY" or "ON SCREEN OFF."
   "(ON)" appears beside the selection made.

#### **Position**

button is pressed, a 5 second VCR Status Display appears.

COUNTER ONLY: When STOP, FF(Fast Forward), REW(ind), or PLAY button is pressed, a 5 second VCR Status Display appears.

After 5 seconds, the counter information will remain on the screen.

ON SCREEN ON: When STOP, FF(Fast Forward), REW(ind), or PLAY

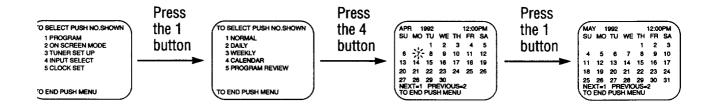
ON SCREEN OFF: In this position, there will be no indication when normal functions are pressed.

- · You may display the VCR Status any time by pressing the STATUS button.
- · Channels (when tuned) are displayed as an overlay for a few seconds.

#### Calendar Indicator

To view any calendar month from the current month up to 12 months in the future:

- 1. Press the MENU button. The main menu screen will appear.
- 2. Press the 1 button to select "PROGRAM" from the menu screen.
- 3. Press the 4 button. This display the calendar for the current month with the current day flashing.
- 4. Each press of the 1 button will display the next month's calendar up to 12 months.
- 5. Press the MENU button. The menu screen reappears.



\*Note: Use the 2 button only to return to the present month once you have pressed the 1 button. Using the 2 button before the 1 button will give you an incorrect month and year display.

#### **Blank Channel Indication**

The screen changes to a solid blue field when you select a channel with no broadcast. The screen will remain blue until an active channel is selected.

# One Touch Recording (OTR)

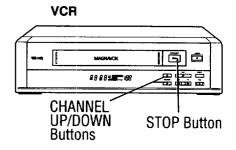
TR is a very easy and convenient way to immediately start recording a TV program you happen to be watching, or to quickly specify how long you want recording to continue with a program you are already recording. When OTR is completed, the VCR (Video Cassette Recorder) automatically shuts off.

#### Make sure...

- the steps in "Getting Hooked Up" (page 6-7) are done, channels are programmed into the VCR's memory (page 8), and the TV and VCR are both turned on.
- the clock is set to the correct time (page 10).
- the desired tape speed (SP, SLP) is selected. Use the Tape SPEED button (page 12).
- the desired tab is in place on the cassette (page 5).
- the tape is long enough to record the programs (page 5).

#### **Instant OTR**

You set the recording length in 30 minute periods up to 9 hours total. Recording starts instantly. The VCR shuts off when the recording is complete.



## Choose a TV Program



Press the VCR CH(annel) UP/DOWN or NUMBERED buttons on the remote control.

## Start an OTR

Press the OTR button on the remote control.

The screen below appears.

· Recording begins immediately.



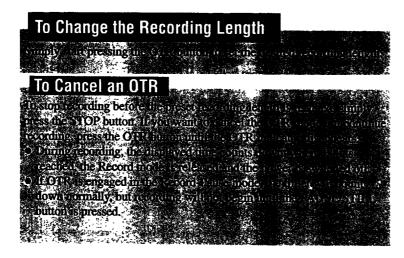
• OTR will flash on the VCR display
This indicates that the VCR
will automatically shut off after
30 minutes of recording.

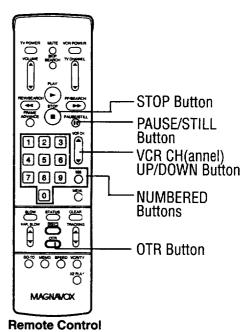
# Select a Recording Length



Continue pressing the OTR button until the desired recording length is displayed.

Each press of the button will add 30 minutes, up to 9 hours.





# 20 Timer Recording

his feature lets you set the VCR (Video Cassette Recorder) to do unattended recording. For each program you set, the VCR will turn itself on at the scheduled time, do the recording, and turn off automatically. You can store up to eight programs, Instructions for each step appear on the TV screen after you select the Program mode. You must use your remote control.

#### Make sure...

**VCR** 

- the steps in "Getting Hooked Up" on pages 6-7 have been completed, an antenna or cable system is connected to the VCR, and the VCR and TV are turned on.
- CABLE or NORMAL has been selected and channels have been programmed into the VCR's memory. See "Placing Local Channels in the VCR," page 8.

**POWER** 

NUMBERED

Buttons

MENU

Button

CLEAR

**Button** 

Button

the VCR/TV selector is set to "VCR."

R 8 8 8 2 **2 2 18**8

TIMER indicator

**Remote Control** 

7 0 0

O

MAGNAVOX

- the clock is set to the correct time (See page 10).
- a cassette tape is inserted in the VCR and the record tab is in place on the cassette (See page 5).
- · the tape is long enough to record the programs. FOR EACH STEP BELOW, YOU HAVE 10 SECONDS TO COMPLETE IT. IF YOU DON'T, PROGRAMMING WILL HAVE TO BE RESTARTED FROM STEP 1.

## Select the Menu Screen

Press the MENU button on the remote control. The main menu screen at right will appear.

## Select the Program Mode

Press the NUMBERED 1 button on the remote control to select the Program mode. Remember, use the NUMBERED buttons on your remote control.

TO SELECT PUSH NO SHOWN 1 PROGRAM 2 ON SCREEN MODE 3 TUNER SET UP TO END PUSH MENU

TV Screen

## Select Normal, Daily or Weekly Recording

#### **Normal Recording**

Press the 1 button to record a TV show on any day you choose up to 12 months away.

TO SELECT PUSH NO SHOWN O END PUSH MENU

#### **Daily Recording**

Press the 2 button to record a TV show every day (Monday through Friday) at the same time and length.

DAILY PROGRAM,(MON-FRI) PROGRAM -)1 2 3 4 5 6 7 8 -

#### Weekly Recording

Press the 3 button to record a TV show once a week at the same day, time, and length.



## Select the Position

Press the NUMBERED buttons 1 8 to select one of the 8 positions to store a timer record program. The Hashing numbers indicate an open position where a program waster sored.

If you select a position number in the large of the program o

then the position contents will be displayed.



#### To make corrections...

Õ

press the CLEAR button while in the screen you wish to change is displayed.

This moves the flashing indicator to the number you want to change. Now, enter the correct number. You may have to press the CLEAR button more than once to reach the numbers you want to change.

## |Select the Channel

Enter two numbers for the TV channel, For channels above 100, press the 100 button, then two numbers for the channel. For example, for channel 10, press NUMBERED button 1, then 0.

Or, for channel 115, press 100, then press 1 and 5. Refer to page 8, "Using the 100 \* Button." for entering three numbers. To record from line input, press 0 and 0. "A/V IN" will appear on the screen.

NORMAL PROGRAM PROGRAM 1 CHANNEL 崇 TO CORRECT PUSH CLEAR

(Continued on next page.)

# Timer Recording (continued)

## Select the "TIME ON"

First, press two NUMBERED buttons for the hour. Next, press two NUMBERED buttons for the minute.

Now, press NUMBERED button "1" for AM or "2" for PM.

For example, for 9:30 PM, press NUMBERED buttons 0-9, 3-0, 2.

NORMAL PROGRAM
PROGRAM
1
CHANNEL 10
TIME ON - TO CORRECT PUSH CLEAR
TO END PUSH MENU

## Select the "TIME OFF"

First, press two NUMBERED buttons for the hour.

Next, press two NUMBERED buttons for the minute. For example, for 10:00 PM, press 1-0, 0-0.

For example, for 10:00 PM, press 1-0, 0-0.

AM or PM will appear when you have entered the hour and minute.

NORMAL PROGRAM
PROGRAM
10
CHANNEL 10
TIME ON 09 30 PM
TIME OFF 1

TO CORRECT PUSH CLEAR
TO END PUSH MENU

## Select the Recording Speed

Press the 1 or 2 button to choose SP (Standard Play) or SLP (Super Long Play).
You cannot use the SPEED button on the remote control to choose the recording speed.

NORMAL PROGRAM
PROGRAM
1
CHANNEL 10
TIME ON 09 30 PM
TIME OFF 10 00 PM
REC SPEED -SP = 1 SLP = 2.
TO CORRECT PUSH CLEAR
TO END PUSH MENU

## Select the "START DATE"

First, press two NUMBERED buttons for the month. Next, press two NUMBERED buttons for the day.

For example, to make a recording on Feb. 12, press 0-2,1-2.

The day of the week and year will be displayed automatically.

NORMAL PROGRAM
PROGRAM
1
CHANNEL 10
TIME ON 09 30 PM
TIME OFF 10 00 PM
REC SPEED SP
START DATE 02/1292
(MONTH) WED
TO CORRECT PUSH CLEAR
TO END PUSH MENU

# **Confirm Your Program**

Press the MENU button.

"PROGRAM WAS COMPLETED" appears wheater try again from step 1 on page 20,

After 3 seconds, the display will disappear from the screen, and the normal TV program will reappear.

The TIMER indicator will light up on the VCR.

# Select the Next Program

11 If needed, press the MENU button and repeats ten 2 to 10.

# Set the Timer

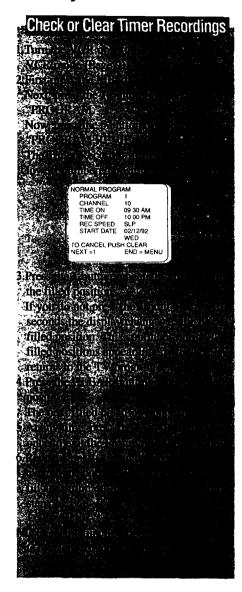
When finished, press the POWER button in 1911 the remote control

## After a Timer Recording Has Taken Place

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

## If the power should fail...

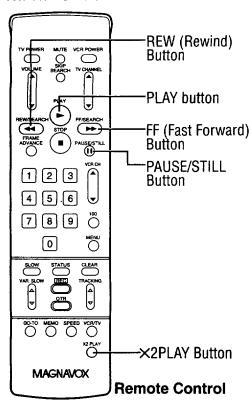
repeat the steps on page 8 and 10 before setting up a Timer Recording.





# 22 Special Playback Features

s your VCR(Video Cassette Recorder) connected to your TV(see page 6-7 "Getting Hooked Up")? Are you familiar with tape playback(see page 7, "Playing a Tape")? If so, you are ready to enjoy the special playback features described on this page. These features work best in the SP (Standard Play) or SLP (Super Long Play) mode. The sound will be muted. Buttons on both the VCR and remote control are used.



## To Rapidly Locate a Particular Segment

Press the FF (Fast Forward) or REW (Rewind) button during playback. Search speed in SP mode is about 7 times normal speed.

Search speed in SLP mode is about 21 times normal speed.

If the FF or REW button is held down for more than 2 seconds, simply releasing it will cancel the Search mode. In this case, the search speed in SLP mode is about 15 times normal speed.

Press the PLAY button to return to playback.

- During search playback, some noise bars will appear on the TV screen.
- There is no picture during search playback in the LP mode.

## To View a Double Speed Playback Picture

Press the ×2 PLAY button during playback.

Press the ×2 PLAY button to release the double speed playback.

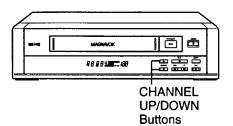
# To View a Still Picture (During Playback)

Press the PAUSE/STILL button on the remote control.

After the VCR has been in the Still mode for 5 minutes, it will stop automatically to protect the tape and video heads.

Press the PAUSE/STILL button to release the Still mode and continue playback.

#### **VCR**



# **AUTO OPERATION FUNCTIONS**

Auto Playback
After cassette insertion:
(Auto) power on Auto playback
(For cassettes without record tab.)

Auto Rewind
After Playback, Fast Forward or Manual
Record to tape end:
Rewind — Stop mode
\*For record tab information refer to
page 5.

Rewind Power-off

- Stop tape and press REW (ind) button.
- Press VCR POWER button.
- The VCR will shutt off at beginning of tape.

# To Advance a Still Picture

In the Still mode, press the FRAME ADVANCE button on the remote control.

## To View a Slow Motion Picture

During playback, press the SLOW button on the remote control unit.

 During slow motion the slow speed can be controlled by VAR(iable) SLOW button.

Press the SLOW button to release the Slow mode and continue playback.

#### TRACKING CONTROL

This VCR incorporates an automatic tracking system. In most cases you do not have to adjust the tracking. If automatic tracking fails and some noise bars are visible, press the TRACKING button on the remote control. The Auto Tracking mode is cancel and press either the UP or DOWN button to minimize noise in the picture.

- Automatic tracking does not take place in the Slow mode. If tracking adjustment is necessary, use the Manual mode.
- Once the cassette has been ejected, the Auto Tracking mode is automatically engaged when it is inserted.

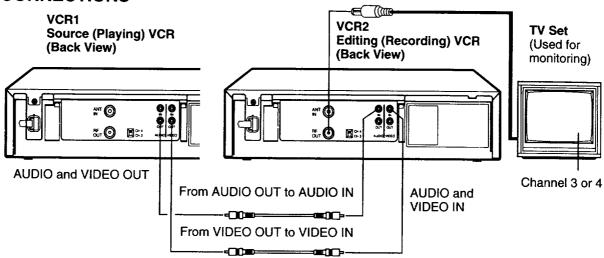
#### V-LOCK CONTROL

If jitter is observed in the Still mode, press either the TRACKING UP or DOWN button on the remote control to reduce it. Once you have made this adjustment, you probably will not have to do it again unless you engage the Still mode when playing a tape recorded on a different VCR.

# Re-Recording (Tape Duplication)

D ubbing from any VHS recorder (or camcorder) to another is simple. Just use the connections and steps below. The example below used two VCR's like this one. Other VCR's may operate differently.

## **CONNECTIONS**



## At VCR 1

1

Insert a pre-recorded tape. VCR 1 is the VCR (Video Cassette Recorder) that will play your tape. If your tape is missing its record tab (page 5), playback starts. In that case, press the STOP button.

#### Refer to the Optional Accessories page at the end of this manual for information on ordering optional Audio and Video dubbing cables.

## At VCR 2



Insert a blank tape in the editing VCR. The VCR will turn on automatically. The VCR indicator light on the VCR should come on. If not, press the VCR/TV button on the remote control.

# To Monitor the Re-Recording Process On Your TV



Turn the TV on.

Turn the TV channel to either 3 or 4, whichever channel VCR 2 is set to (See page 7).

## Select Input Source



Point your remote control at VCR 2. Press 0-0 on the NUMBERED buttons. "L" appears on the VCR display panel.

## Select Tape Speed



Point your remote control at VCR 2. Press Tape SPEED Button to select SP (Standard Play) or SLP (Super Long Play).

# Playback the Tape



Press the PLAY button on VCR 1.

# Record (Copy) the Tape



Press the REC(ord) button on VCR 2.

Remember: press the buttons in steps 6 and 7 simultaneously to avoid missing any of the recording.

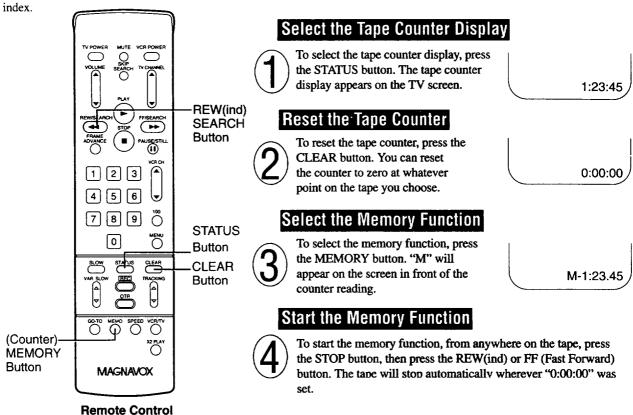
#### Caution:

Unauthorized recording of copyrighted television programs, films, video tapes, and other materials may infringe on the rights of copyright owners and be contrary to copyright laws.

# 24 Tape Operation

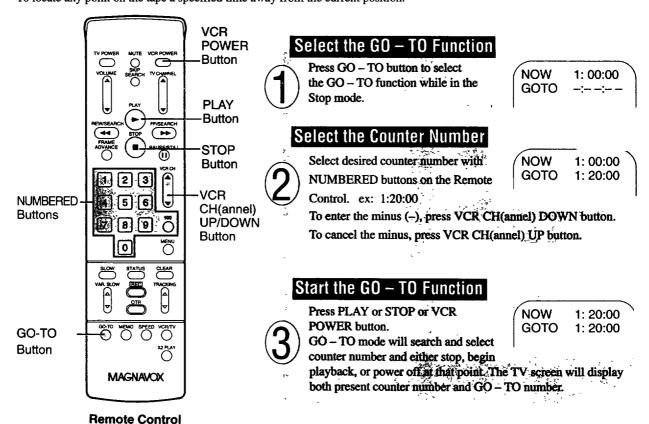
#### TAPE COUNTER CONTROL

If you always rewind your tapes fully and reset the tape counter, then you'll be able to use a list of program locations as an index



#### **GO - TO FUNCTION**

To locate any point on the tape a specified time away from the current position.



# Technical Notes on Operations 25

## **Getting Hooked Up**

- With cable connections, the numbers assigned to specific channels may differ from those for antenna connections.
   Refer to the separate Basic Guide for VCR (Video Cassette Recorder) Connections (or your cable service information).
- If the reception on all VHF (Very High Frequency) channels is unsatisfactory, you may need to re-tune your TV set.

## **Clock Adjustment**

- In the Clock Adjustment mode, be sure to enter the first digit and all subsequent entries within 10 seconds of one another. Otherwise, the VCR will automatically leave this mode and the program you were watching will return to the screen. If this happens, press the MENU button and start again.
- Be sure to enter "0" before single-digit numbers.
- The letters indicating the day of the week will appear when you have entered both digits for the year.
- If the digits entered for the day do not match the calendar, the entry will be rejected and "?" will appear.
- If you press the MENU button while in the Clock Set mode, the TV screen will return to the program you were watching.

## **Special Playback Features**

- During search playback, horizontal noise bars will appear on the TV screen.
- When the VCR has been in the Still mode for 5 minutes, it will automatically switch to the Stop mode to protect the tape and video heads.
- Special-effects playback can be used during playback of tapes recorded in the SP or SLP mode. Tapes recorded in the LP mode cannot be viewed in special-effects playback.

#### To Record

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

## One Touch Recording (OTR)

 If the preset time for a timer recording comes up during OTR recording, OTR has priority.

## **Timer Recording**

- To do a timer recording in the LINE mode, follow steps 1-4 in "Timer Recording" section. At step 5, press the NUMBERED button 0 twice (0,0) to engage the LINE (external source) mode. Complete the rest of the steps under "Timer Recording" section.
- Timer recording may not be performed or continued if a power interruption of more than one minute occurs before or during timer recording, even if power resumes thereafter. Preset clock and timer data will be lost. This is indicated by the clock display on the VCR which resets to "--:-". If this happens, reset the clock and program the timer.
- If the time spans of two preset programs overlap, the lowernumbered program will have priority and the second program will start only after the first program has been executed
- If the POWER button is pressed to OFF with no cassette loaded, the TIMER and "Cassette Inside" indicators will continue blinking.
- If the record tab is missing, the cassette will be ejected when the POWER button is pressed to OFF, and the TIMER and "Cassette Inside" indicators will continue blinking.

#### **Power Failure**

 Timer Recordings will be erased if the power fails. Repeat "Placing Local Channels in the VCR" on page 8 and "Setting the Clock" on page 10 before setting up a "Timer Recording" on pages 20-21.

## Satellite Hook-Up

- Watching one TV channel while recording another may not be possible with a satellite hook-up.
- You may have to set your VCR to channel 3 or 4 and make your channel selections at the satellite converter box.
- If you use accessory Audio and Video cables (not supplied) to hook-up your VCR to TV, you will have to set your VCR to Line Input. "A/V IN" appears on your TV screen when you first switch into this mode. "L" appears on your VCR. The VCR to TV hook up will look similar to "VCR to Stereo TV Hook-Ups" on page 29.

## Line Input

 If you accidently get into the Line mode ("L" appears on the VCR), simply press the VCR CH(annel) UP/DOWN button or select a channel using the NUMBERED buttons to exit.

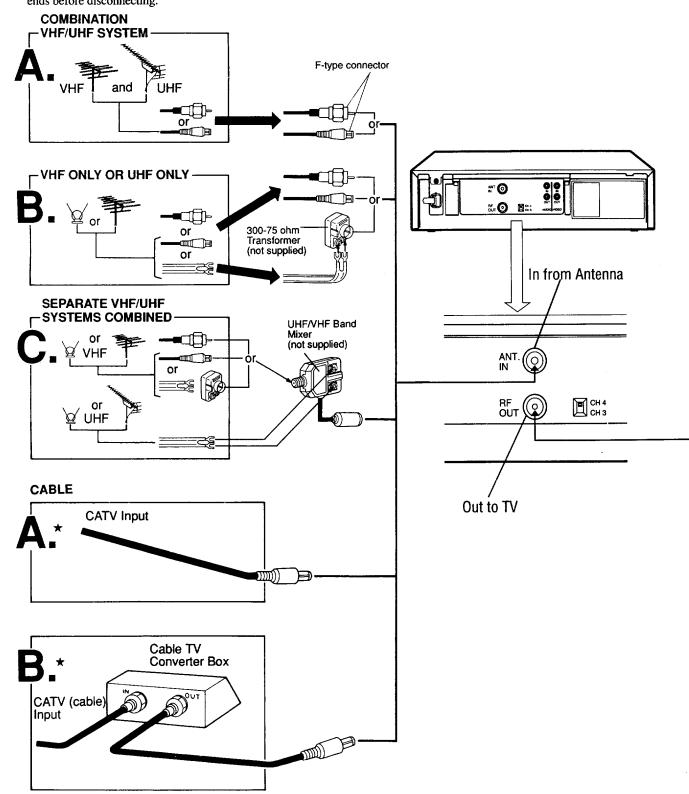
# 26 Other Hook-Ups You Can Try

# Antenna or Cable to VCR to TV Connections

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

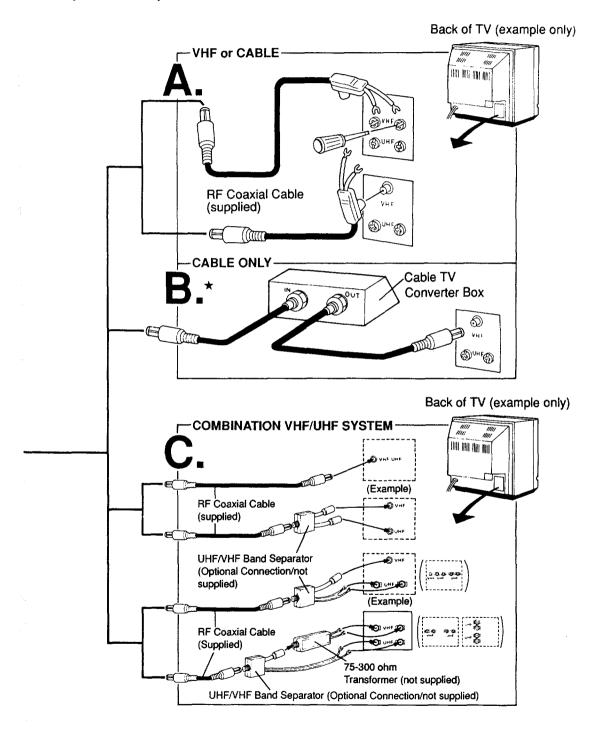
Your antenna or cable should have one of the ends shown below. To avoid confusion, label all terminals (on TV) and ends before disconnecting.

STEP 2: Connect Your Antenna or Cable to Your VCR.



#### STEP 3: Connect Your VCR to Your TV.

Look at the back panel of your TV. Find the appropriate diagram below and use that method to connect your VCR to your TV. Use only one connection.



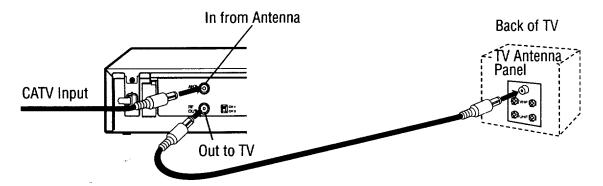
#### FOR UHF-ONLY antenna system:

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

# 28 Other Hook-Ups You Can Try (continued)

## Without a Converter/Descrambler Box

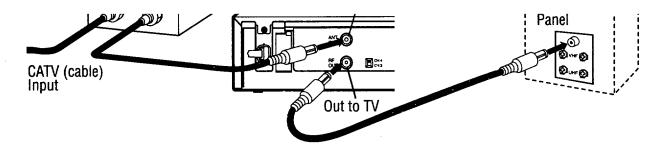
Use this connection if your cable system connects directly to your TV without a converter box.



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

NOTE: • You can also use the VCR CHANNEL UP/DOWN button to select the desired channel.

• You cannot record or view scrambled channels with this connection.



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

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

- 1. Set the VCR/TV selector located on the front of the VCR to "VCR".
- 2. Set the TV channel selector to the output channel of the VCR (channel 3 or 4).
- 3. Set the VCR channel selector to the output channel of the Cable Converter Box. (If the Cable Converter Box is set to channel 3, the VCR should be set to channel 3. If the Box is set to channel 4, the VCR should be set to channel 4.).
- 4. Select the channel to be recorded at the Cable Converter Box.

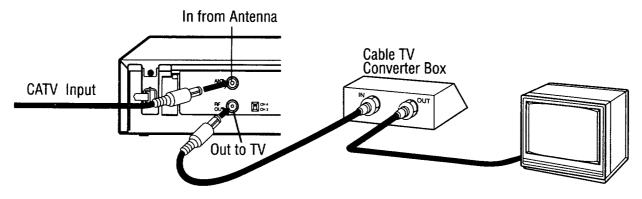
#### To Watch TV (with the VCR off)

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

# Other Hook-Ups You Can Try (continued) 29

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

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



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

NOTE: •Use the VCR CHANNEL UP/DOWN button to select a channel to be recorded.

• You cannot record scrambled channels with this connection.

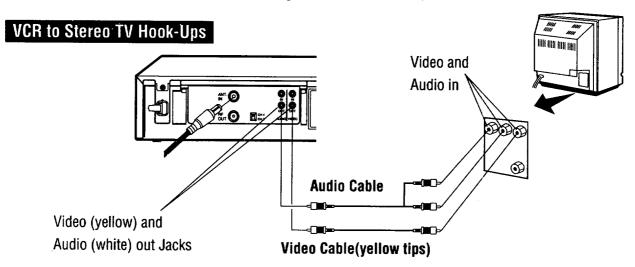
## To Record One Channel While Viewing Another

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

## To Play Back a Tape

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

Back of TV (example only)



For any additional adjustments you may need to make to your TV, please refer to your TV owner's manual. Cables not included.

# 30 Before Requesting Service

IMPORTANT NOTE: Periodic maintenance is required in order to maintain the unit's continued excellent performance.

After a period of time the Video heads will require replacement. If cleaning or replacement of the Video heads is required, this service should be performed by an authorized Video System Service Center.

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

-Power	Correction
No power	<ul> <li>Check that the Power plug is completely connected to an AC (Alternating Current) outlet.</li> <li>Check that the Power button is set to on.</li> </ul>
Power Failure	<ul> <li>Please complete "Placing Local Channels in the VCR" on page 8 and "Setting the Clock" on page 10 before attempting to set up a "Time Recording" on page 20-21.</li> <li>Otherwise, you may not be able to receive or record channel above 13.</li> </ul>
D	
-Recording & Playback-	—Correction————
TV program can't be recorded	<ul> <li>Check the connections between the VCR, the external antenna, and your TV.</li> </ul>
	Check that the band selected matches your antenna or
	cable TV system (P.8).
	• Make sure that the record tab on the back of the cassette is still intact (P.5).
Timer recording can't be performed	<ul> <li>Set the recording start/stop time correctly (P.20).</li> <li>Make sure that the POWER button is set to "OFF" (P.21).</li> <li>Timer recording may not be performed or continued if a power interruption of more than 1 second occurs before or during Timer Recording, even if power resumes thereafter.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select the same channel on your TV as that of the VCR Channel 3/4 switch (P.7).</li> <li>Set the VCR/TV selector to "VCR" (P.9).</li> <li>Check that channel 3 or 4 of the TV is properly adjusted.</li> <li>Adjust the Tracking control slowly in either direction (P.22).</li> </ul>
During special effects playback, the picture may contain some vertical jitter when using a TV which has an Automatic Vertical Hold Control	• Set the TV's Vertical Hold Control, if available, to "MANUAL" and adjust.
If the top of your playback picture waves back and forth excessively	• Because the VCR playback signal is not as stable as an off-the-air TV singal, the top of your TV screen may be bent or unstable during playback. To solve this problem, slowly turn the HORIZONTAL HOLD control on your TV to correct the wavy picture. If your TV does not have the horizontal hold control or adjusting the control does not help, please contact your local TV service center.

# Before Requesting Service (continued) 31

Remote Control	Correction
VCR can't be remote controlled	<ul> <li>Aim the Remote Control directly at the remote sensor on the VCR.</li> <li>Avoid all obstacles which may interfere with the signal path.</li> <li>Inspect or replace the batteries (P.5).</li> </ul>
-Miscellaneous	
You can't view programs normally on TV	•Set the VCR/TV selector to "TV" (P.9).
Video cassette can't be inserted	•Insert the cassette with the window side up and the record tab facing you.
Video cassette can't be removed	•Check that the power plug is completely connected to an AC outlet.
Video cassette ejects when the OTR, RECORD and PLAY buttons are pressed or the POWER button is pressed off to set the Timer	•Check the cassette to be sure that the record tab on the back of the cassette is still intact (P.5).
In the Stop mode, the motor(CYLINDER) continues to rotate	•To enable quick play mechanism the cylinder will rotate for about 10 minutes.
If you cannot receive channels above 13	•Repeat "Placing Local Channels in VCR" on page 8, making sure you select "CABLE TV" in step 2.

# **Specifications**

Video Recording System	Rotary four-head helical scan	Weight	9.5 lbs. (4.3 kg)	
	system	Dimensions	14-3/16"(W) × 3-	9/16"(H) × 12"(D)
Video Signal	EIA standards: NTSC color		(360 mm × 89 mr	n × 304 mm)
Antenna	VHF/UHF - 75 ohm external	Tuner		
	antenna terminal	<b>Broadcast Channels</b>	VHF 2 - 13, UHF	F 14 – 69
VHF Output Signal	Channel 3 or 4 (switchable)	CATV Channels	Midband	A – I
•	75 ohms unbalanced		Superband	J - W
Power Requirement	120 V ~ AC/60 Hz		Hyperband	A-5 - A-1
Power Consumption	19W		Special channel	5A
<b>Operating Temperature</b>	41 °F(5 °C) to 104 °F(40 °C)		Ultraband	65 – 94
Relative Humidity	10% to 80%			

Design and specifications are subject to change without notice.

# 32 Warranty

#### LIMITED WARRANTY

# Video Cassette Recorder/Player

• 90-Day Carry-In Service Labor Warranty

• One (1) Year Exchange Warranty On Parts

For purchases outside the U.S.A., see applicable warranty from country of purchase.

#### Please keep...

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

#### Parts and Labor Coverage...

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

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

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

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

#### Before Calling for Service...

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

#### **How to Get Warranty Service:**

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

Please write in your model and serial numbers below. These numbers are located on your product. Keep this manual nearby for easy reference.

7

Model No.

- Serial No.:

# Warranty Exclusions – Your Warranty Does Not Cover...

...labor charges for installation or set up, adjustment of customer or preference controls, and installation or repair of antenna systems outside the unit.

...product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.

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

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

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

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

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

#### Cassette Tapes

It is recommended that you use only cassette tapes which have been tested and inspected for use in 2, 4, 6, or 8 hour VHS recorders, and which are so labeled. The use of tapes which have not been tested or of a VHS format may result in poor picture quality. Damage caused by the use of tapes other than those recommended may void the product warranty.

#### **IMPORTANT REMINDER:**

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

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

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

AUTO PROGRAM: This is part of the CHANNEL MEMORY function. When used the VCR runs through (scans) all the channels on the VCR and all the channels received in your area are automatically placed in memory.

**TV BANDS:** Two possible settings:

#### NORMAL TV CH

This consists of two type of frequencies:

#### VHI

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

#### UHF

(**U**ltra **H**igh **F**requency) Channels which are received by the tuner on channels 14 to 69.

#### **CABLE TV CH**

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

<u>CHANNEL (S)</u>: Selected with the NUMBERED buttons or CHANNEL UP & DOWN buttons on the remote.

**CLEAR:** To remove a completely programmed Timer Recording or to correct a single clock or program entry.

**COUNTER:** For locating specific areas on a tape by referencing the counter number.

**<u>DUBBING</u>**: Copying the contents of a tape with the use of a second VCR.

**FAST FORWARD** (**FF**  $\triangleright \triangleright$ ): To move the tape rapidly in the forward direction ( $\triangleright \triangleright$ ).

**FRAME**: Single still picture.

**HQ** (**High Quality**): An enhancement feature in the VCR circuitry which provides greater picture detail.

MATCHING TRANSFORMER: An adapter used primarily on non-cable ready TV's. One end has a "screw on" type connector and the other end has two flat leads that connect to the TV.

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

MODE: The operating condition or status of the VCR. This is determined by the function currently engaged and/or the setting selected. Eg.: "PLAY" mode

MUTE: Reduces the TV's sound level instantly.

<u>OSD (On Screen Display</u>): Features and information that appear on the TV screen.

OTR (One Touch Recording): Making immediate timed recordings with the press of a single button. These recordings can be set from 30 minutes to 9 hours or to tape end.

**MENU BUTTON:** When the MENU button is pressed, you will be able to choose from a list of options:

- Selecting the PROGRAM mode to enter information for timed recordings.
- 2) Setting the channel memory, antenna system, and OSD.
- 3) Setting the clock.

**REWIND (REW**  $\blacktriangleleft$ ): To move the tape rapidly in the reverse direction ( $\blacktriangleleft$ ).

**RF COAXIAL CABLE:** Black insulated round cable used to connect the VCR to the TV.

**SPECIAL EFFECTS:** Viewing a STILL, SLOW MOTION or FAST FORWARD picture during tape playback.

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

**TAPE SPEEDS:** This determines how fast the tape travels during recording or playback. These can be selected for recording but are automatically selected by the VCR in playback.

#### **SP** (STANDARD PLAY):

Fastest tape speed. Recording time for a T120 tape will be approximately 2 hours.

**LP** (LONG PLAY):

Average tape speed. Recording time for a T120 tape will be approximately 4 hours (playback only).

#### **SLP** (SUPER LONG PLAY):

Slowest tape speed. Recording time for a T120 tape will be approximately 6 hours.

**TRACKING:** The video heads do not trace the video track properly and grainy streaks appear through the picture. This may be corrected by adjusting the Tracking Control. (CHANNEL UP/DOWN buttons on this VCR).

**VCR/TV BUTTON:** This button turns the "VCR" indicator, on the display panel, ON and OFF. When "VCR" is ON, this prepares the VCR for viewing your recording or tape playback on the TV. When OFF, all channel selections are made at the TV.

**VCR**: Video Cassette Recorder.

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

WIRELESS REMOTE CONTROL: By pressing the button on the remote, signals are sent to the VCR to perform the desired task (s).

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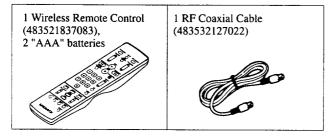
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# **Accessories**

Check to be sure the following items are packed with your VCR.

## ACCESSORIES SUPPLIED

These accessories are provided to help you use or set up your VCR.



#### OPTIONAL ACCESSORIES

Maximize your viewing pleasure with State-Of-The-Art accessories designed specifically for your VCR.

The optional accessories shown in this booklet may be purchased

from your local dealer, or may be ordered direct from Philips

Consumer Electronics Company. Call toll free: 1-800-851-8885

Or Write: Philips Consumer Electronics Co.
Accessories Marketing Dept.
P.O. Box 967
Greeneville, TN 37744-0967

T120-Cassette Tape	Semi-open Back TV/VCR Headphones	Cable TV/VCR Surge Protector
V80107BK01 \$4.95	SBC3144A01 \$19.95	SRG9104 \$29.99
Universal Remote	4-Way Splitter	Dry Head Cleaner
AK9033GY02 \$79.95	SBV1102A01 \$3.95	SBV1141AC01 \$9.95
Dubbing Cables (monaural)	VCR Hook-Up Cable	RCA Audio/ Video Cable
SBV1138A01 \$13.95	SBV1130A01 \$3.95	SBV1127A01 \$3.95
Dubbing Cables (stereo)		
<b>E</b>		
SBV1139A01 \$17.95		

Prices subject to change without notice. A vailability subject to change at time of purchase.

When ordering accessories outside the U.S.A., please refer to the accessories material, address, and prices for that country.