

VCR
USER'S MANUAL

PROSCAN

So Advanced. Yet So Simple.



MODEL PSVR85

SAFETY INFORMATION

WARNING

To reduce risk of fire or shock hazard, do not expose this product to rain or moisture.

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

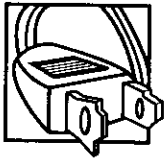


This symbol indicates important instructions accompanying the product.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

Cautions



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

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.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which 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.

Care and Cleaning:

Use a soft cloth or the dusting attachment of your vacuum cleaner to dust your VCR. Remove dust from the ventilation holes.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. A nonabrasive, antistatic cleaner/polisher is recommended.

Product Registration

Please fill out the product registration card and return it immediately. Returning the card allows us to contact you if needed.

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. The numbers are located on the back of the product.

Model No. PSVR85

Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

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The VCR Plus+ System is manufactured under the license from Gemstar Development Corporation.

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FIRST THINGS FIRST

WELCOME TO YOUR NEW VCR...

To help you get started using your VCR with as little reading as possible, we've put all the basic information needed in the first three sections. To help you along, there's even a QuickSet Guide which walks you through several setup steps at once.

GETTING STARTED

Before this first step, though, learning about the time and date, your remote control's features, working with channels, and basic video tape operations are essential to get all you can out of the VCR. Once you are comfortable with these features, feel free to refer to other sections because they cover the more detailed information.

WHAT REMAINS?

The final sections of this manual contain playback and recording information, a detailed connections section, and a reference section including troubleshooting tips, warranty information, and an index.

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES



7 CONNECTIONS



8 REFERENCE

READ ME!

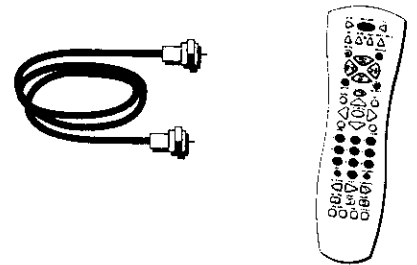
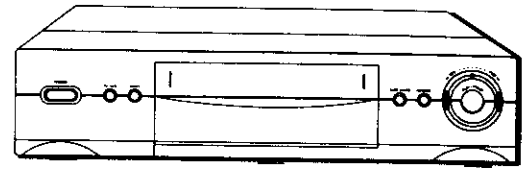
These note boxes give you tips for your new video cassette recorder.

FIRST THINGS FIRST

STEP 1: WHAT'S IN THE BOX?

The following items come packed in the box:

- VCR
- Remote control
- RF coaxial cable



STEP 2: INSTALL BATTERIES IN THE REMOTE CONTROL

Follow these steps whenever you need to install or change the batteries in your VCR's remote.

1. Remove the cover of the battery compartment.
2. Place the batteries into the remote's back panel. Match the positive (+) and negative (-) ends of each battery to the diagram inside the battery compartment.
3. Replace the cover.

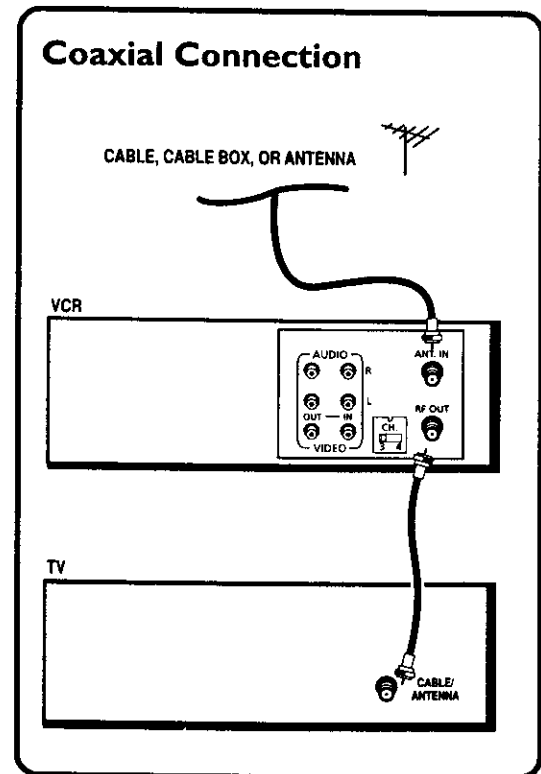
STEP 3: CONNECT YOUR VCR

If you connect your VCR to your home antenna or cable system and then to your TV, use the VCR's ANT. IN and RF OUT jacks for a good signal as shown to the right.

If you have a TV with AUDIO/VIDEO jacks, use the jacks for a better connection. Refer to the section, *Connections*, toward the back of the manual, for additional connection options.

STEP 4: PLUG IN THE VCR

Your VCR's power cord has a plastic band strung through the blades. **Remove plastic band before plugging the cord into the power outlet.** To remove band, cut with a pair of scissors and pull it free of the blades. Once the plastic is removed, match the wide blade of the power cord to the wide slot in the AC outlet. Be sure to insert the plug completely.



FIRST THINGS FIRST

STEP 5: TUNE THE TV

Tune the TV to the VCR viewing channel. The VCR viewing channel is channel 3 or 4 or the TV's video input.

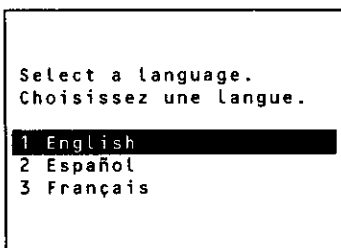
- If you connect your VCR using the ANT. IN and RF OUT jacks with RF coaxial cable, set the 3 CH 4 switch to channel 3 or channel 4 — the channel you want to use on your TV.
- If you connect your VCR using the AUDIO/VIDEO jacks with audio/video cables, select the TV's video input with the remote's TV and INPUT buttons to see the signal. For more information see "How to Find Your TV's Video Input Channel" in the *References* section of this manual.

STEP 6: TURN ON THE VCR

Press ON • OFF on the VCR's front panel or VCR1 on the remote control to turn on the VCR. The first time you turn the VCR on, a menu screen appears. This is the start of a QuickSet Guide which helps you pick different options for your VCR.

STEP 7: USING THE QUICKSET GUIDE

The QuickSet Guide is an automated procedure that helps you set up your VCR. The first time you turn on your VCR, the first screen of the Guide appears.



1. Press 1 for English, 2 for Español (Spanish), or 3 for Français (French).

The remaining menus throughout the set up will appear in the chosen language. Just follow the step-by-step procedures until the interactive setup is complete.

(Continues on next page)

VCR Viewing Channel

When using the ANTENNA jacks to connect your VCR, tune your TV to channel 3 or 4.

When using the audio/video jacks to connect your VCR, tune your TV to the TV's video input.

QuickSet Guide

If you choose not to use the QuickSet Guide to set up the VCR, you can exit now and return to the Guide through Setup in the VCR MAIN MENU.

FIRST THINGS FIRST

(Continued from previous page)

If the menu does not appear:

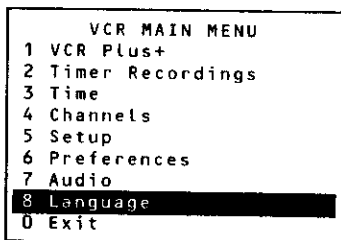
- Make sure the TV is tuned to the same channel as the 3 CH 4 switch or the TV's video input "channel" (see "How to Find Your TV's Video Input Channel" in the *References* section of this manual for more information).
- Make sure the VCR indicator is on in the VCR display if you connected your VCR using the ANT. IN and RF OUT jacks.
- Check your connections.

If you choose to set up your VCR options individually rather than setting them up in the QuickSet Guide, then go to the next section.

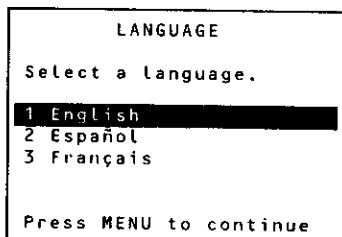
STEP 8: ACCESS THE MENUS

The MENU and number buttons let you access, select, and change the VCR's display preferences. For example, to select a different preferred on-screen language than the one selected during the initial set up, do the following:

1. Press MENU to display the VCR MAIN MENU.



2. Press 8 to display the LANGUAGE menu.

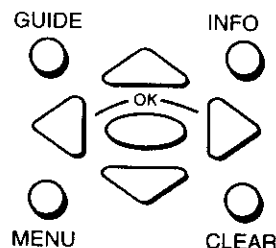


3. Using the remote control, press 1 for English, 2 for Español (Spanish), or 3 for Français (French).

All other on-screen menus are worked in similar ways; using the remote control to follow on-screen instructions. See the next section, *Additional Set-Up Features*, for detailed information about accessing menus.

Using the Arrow Buttons

Use the menu, arrow and OK buttons on the remote control to access and select menu items.



Pressing the MENU button will bring up the Main Menu. When menus are displayed, you can either select the item you want by pressing the same number button on the remote, or by using the up and down arrows to scroll through items highlighting them. If you scroll through menu items, you must press the OK button to select it.

You also set some of the VCR's features (e.g., setting the clock) using the on-screen displays and the remote control arrow buttons in this way.

You also use the left and right arrows when setting up a timer program. These buttons move from one location to another, such as moving from hours to minutes.

SETTING UP THE VCR

SETUP FEATURES

Below is a list of features that need to be set up to get the most out of your VCR. Many of these menus are covered during the QuickSet Guide, but if you ever want to change a menu, refer to this section.

- Language Selection
- Cable Box Set Up
- VCR Channel List Set Up (Auto Channel Search)
- Time Zone and Daylight Savings (Auto Clock)
- Manually Setting Time and Date
- VCR Plus+ System Channels
- Remote VCR1/VCR2 Feature
- Auto Play*
- Auto TV/VCR*
- EnergySaver*
- Front Panel Brightness*
- Preferred Tape Speed*

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES



7 CONNECTIONS



8 REFERENCE

* Items NOT set up during the QuickSet first-time setup and must be set manually.

SETTING UP THE VCR

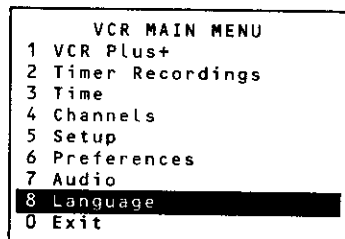
USING THE MENUS TO SET UP FEATURES

You set up features by using the menu system as discussed in the previous section. Each feature that appears in the QuickSet Guide is explained in this section as well as a few other features you should set up before you begin using your VCR.

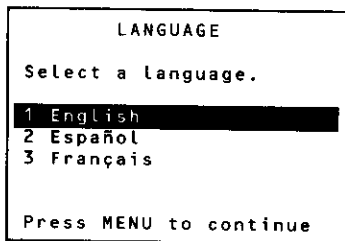
LANGUAGE

Selecting your preferred language determines how the on-screen displays will appear. To change the language:

1. Press MENU to display the VCR MAIN MENU.



2. Select 8 to chose the LANGUAGE menu.



3. Select English, Español (Spanish), or Français (French).

Is Something Missing?

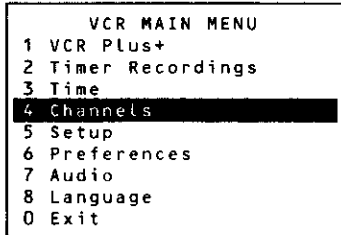
Not all the VCR screens are shown in this manual when explaining the features.

SETTING UP THE VCR

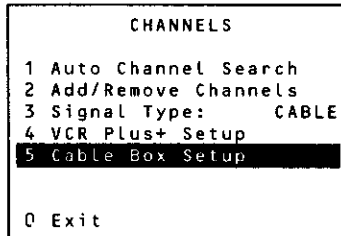
CABLE BOX SETUP

This setup applies only when all channels are received through the cable box.

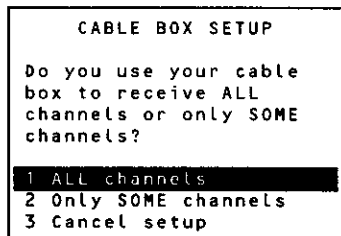
1. Press MENU to display the VCR MAIN MENU.



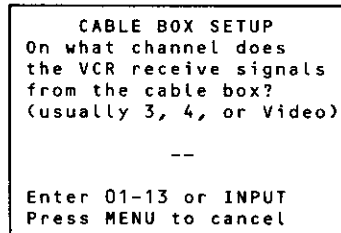
2. Press 4 to display the CHANNELS menu.



3. Press 5 to display the CABLE BOX SETUP menu. Then select one of the three choices.



4. If you selected ALL channels, enter the output channel of your cable box, usually 03, 04, or video line input and press MENU.



Make sure you enter a "0" before entering single-digit numbers. To select Video Input, press the INPUT button on the remote.

Cable Box Setup

ALL channels: enter two numbers for output channel of your cable box or press INPUT for Video Input.

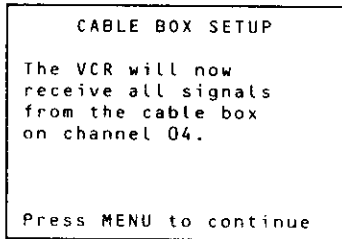
Only SOME channels: if you only use the cable box to tune premium channels.

Cancel setup: select to cancel.

(Continues on next page)

SETTING UP THE VCR

(Continued from previous page)



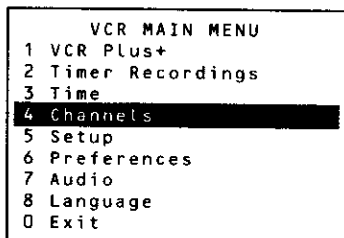
Once you complete the setup, the on-screen menus confirm that the VCR will receive all signals on the designated channel.

VCR CHANNELS LIST

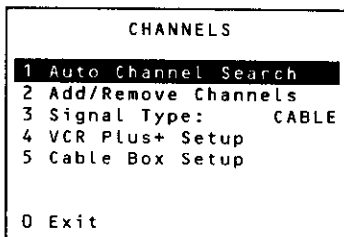
If you use a cable box for *all channels*, this step is not necessary. Your VCR may come with a channel list preset at the factory. Even though your VCR may come with such a list, it's possible that you will want to add or delete certain channels depending on whether they are active.

AUTO CHANNEL SEARCHING

1. Press MENU to display the VCR MAIN MENU.



2. Press 4 to display the CHANNELS menu.



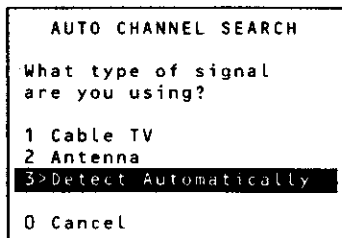
3. Press 1 to display the AUTO CHANNEL SEARCH menu.

Auto Channel Search

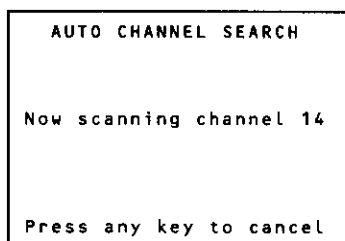
Use the Auto Channel Search feature to place all available channels in memory.

If you ever change cable or antenna signals, you may need to Auto Channel Search again.

SETTING UP THE VCR



4. Select one of the three AUTO CHANNEL SEARCH options.
 - *Cable TV* searches for cable stations from a single channel
 - *Antenna* searches for local broadcast stations on all channels
 - *Detect Automatically* will make this decision for you



The VCR begins scanning for the available channels—this takes about one to two minutes. When the scan is complete, the VCR tunes to the lowest channel number available. At this point, pressing CHAN + or - on the remote should only select active channels.

Detect Automatically

A strong cable or antenna signal in your area may cause Auto Detect to mis-detect. If this should happen, select 1 or 2 for the system you have.

CHANGING THE SIGNAL TYPE

This feature is useful if your cable signal goes out; it allows you to switch to a regular antenna for alternate television reception.

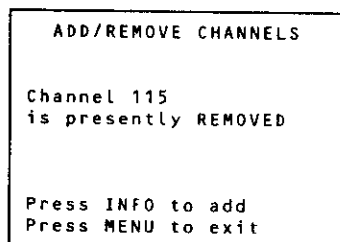
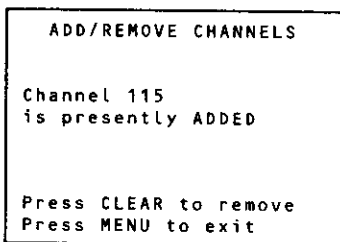
1. Press MENU to display the VCR MAIN MENU.
2. Press 4 to display the CHANNELS menu.
3. Press 3 to change the Signal Type between Cable and Antenna. When you are finished, press 0 to exit back to the Main Menu and 0 again to exit to normal viewing.

SETTING UP THE VCR

ADDING OR REMOVING CHANNELS

You may want to add or remove channels after you auto channel search, especially if channels have weak signals or content you don't want to watch. To achieve this:

1. Press MENU to display the VCR MAIN MENU
2. Press 4 to display the CHANNELS menu
3. Press 2 to display the ADD/REMOVE CHANNELS screen. Use the CHANNEL + or - buttons on the remote or enter a specific channel number with the number buttons to go to the channel you want to add or remove.



Once you have reached your selection, the screen will tell you if the channel is currently in your viewing list. Press CLEAR to remove a channel. Press INFO to add a channel. Once you are completed, you can press MENU to exit out of the menus.

TIME AND DATE

The VCR gives you two ways to set the time and date; manually and the Auto Clock feature. Using Auto Clock enables the VCR to update the clock each time you turn off the VCR. The Auto Clock feature updates the time for you automatically if your local broadcasts offer AllSet time data.

If for any reason time information cannot be automatically downloaded, time and date information can always be entered manually by using the on-screen displays.

AUTO CLOCK SET FEATURE

The Auto Clock feature is set to ON by default at the factory. In the ON setting, the VCR looks for a channel carrying AllSet data and updates the clock using the Coordinated Universal Time. There are certain steps which are required, such as Auto Channel Search, setting the time zone, and setting the daylight-saving feature, before the Auto Clock feature works.

Selecting Channels

The CHANNEL + and - buttons access those channels which are active in your VCR channel list.

You can still access channels not in the channel list by using the number buttons on the remote.

Auto Clock Info

With a cable box, the VCR will not reset the clock after a power outage unless the cable box is set to the channel carrying the broadcast signal.

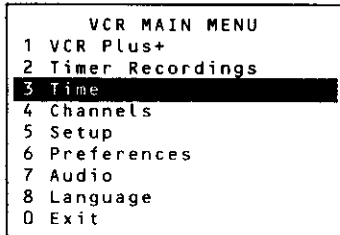
If Auto Clock Set is unsuccessful, try tuning the VCR (or cable box) to a channel carrying AllSet time information (usually PBS), then turn the VCR off. If the time does not set within 10 minutes, set the time and date manually through the Time menu.

Check local cable system or TV stations for availability of channels with AllSet information.

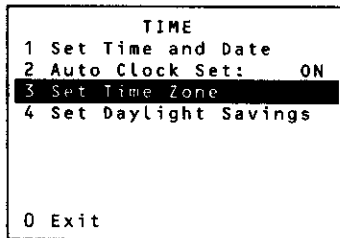
SETTING UP THE VCR

SETTING THE TIME ZONE

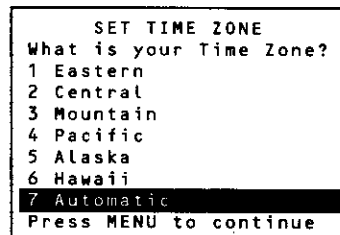
1. Press MENU to display the VCR MAIN MENU.



2. Press 3 to display the TIME menu.



3. Press 3 to display the SET TIME ZONE screen.

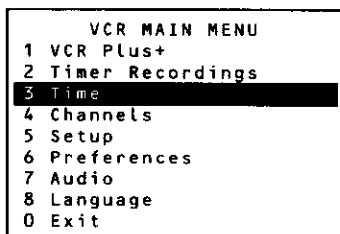


4. Select your time zone.

If you select Automatic for your time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds. If the time is not correct, select another time zone or set the time and date through the menu system.

SETTING DAYLIGHT SAVINGS

1. Press MENU to display the VCR MAIN MENU.



SETTING UP THE VCR

2. Press 3 to display the TIME menu.

```
TIME
1 Set Time and Date
2 Auto Clock Set:  ON
3 Set Time Zone
4 Set Daylight Savings
0 Exit
```

3. Press 4 to display the SET DAYLIGHT SAVINGS menu.

```
SET DAYLIGHT SAVINGS
Does your area observe
Daylight Savings Time
from April to October?
1 Yes, DST is observed
2 No
3>Automatic
Press MENU to continue
```

4. Select one of the options.
 - DST stands for Daylight Savings Time.
 - If you choose Automatic, the VCR sets the clock using the DST information broadcast in the signal (channel).

SETTING TIME AND DATE MANUALLY

If the Auto Clock Set was unsuccessful, set the clock through the TIME menu option. The Auto Clock Set feature is set to OFF automatically when you set the clock this way.

1. Press MENU to display the VCR MAIN MENU.

```
VCR MAIN MENU
1 VCR Plus+
2 Timer Recordings
3 Time
4 Channels
5 Setup
6 Preferences
7 Audio
8 Language
0 Exit
```

2. Press 3 to display the TIME menu.

```
TIME
1 Set Time and Date
2 Auto Clock Set:  OFF
3 Set Time Zone
4 Set Daylight Savings
Time Data was not found.
0 Exit
```

3. Press 1 to display the SET TIME AND DATE menu.

Spring Forward; Fall Back

In the Spring, Daylight-Savings begins on the first Sunday in April. Because the clock automatically changes from 2 a.m. to 3 a.m. (forward one hour), remember to include the extra hour for timer recordings falling within this time frame.

In the Autumn, Daylight-Savings ends on the last Sunday in October. The VCR clock automatically changes from 2 a.m. to 1 a.m. (back one hour). Therefore, it can affect your recording length.

SETTING UP THE VCR

```
SET TIME AND DATE
Time --:--
  (hh:mm)
Date --/--/--
Press MENU to cancel
```

4. Enter the data using the number buttons. Press 0 before single-digit numbers and follow the on-screen directions to exit the menus.

```
SET TIME AND DATE
Time 12:34 PM
Date 11/16/00 Thursday
Press CLEAR to correct
Press MENU to set
```

VCR PLUS+® SILVER PROGRAMMING SYSTEM

The VCR Plus+ SILVER programming system makes VCR set up automatic by setting and updating the clock and channel list for you. During the one-time QuickSet Guide set up, the VCR prompts you to enter your zip code. Soon after, the VCR clock will set itself and your VCR Plus+ programming system channel list will be input for you.

Time, date, and VCR Plus+ system information are downloaded from participating TV stations over your antenna or cable system. Time and date are updated each time the VCR is turned off (and after every power interruption). So, when your TV stations or cable company update their lineups, your ProScan VCR will get the most current channel list automatically, freeing you from having to manually change the channel list yourself.

If your VCR Plus+ Silver system fails to download the proper information for any reason, you can always manually map the channels. You can also turn off AUTO VCR Plus+ if you keep getting prompts about "multiple cable" services by choosing (2) in the VCR Plus+ SETUP menu.

Time/Date Display

Pressing INFO displays the time and date on the screen temporarily.

VCR Plus+ Download

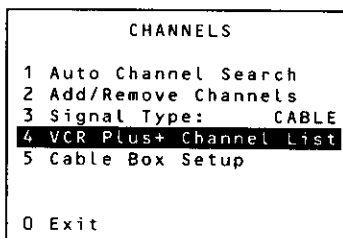
When your VCR Plus+ SILVER system first downloads information, this can take anywhere from minutes to hours depending on when local broadcasters send the data.

SETTING UP THE VCR

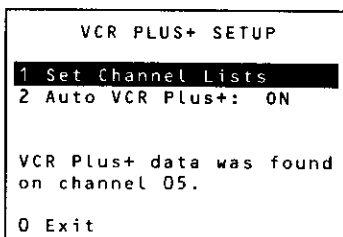
MAPPING VCR PLUS+ SYSTEM CHANNELS MANUALLY

Using the VCR Plus+ SILVER programming system can make taping timer recordings for cable or off-air antenna easier. If your VCR Plus+ SILVER system setup failed during the QuickSet, then you will need to map the channels for your local service manually. A worksheet and abbreviated codes for typical cable services in the U.S. and Canada are provided.

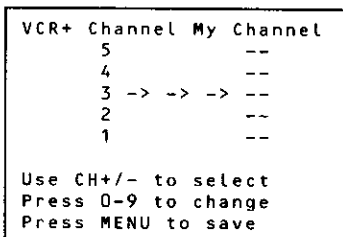
1. Press MENU to display the VCR MAIN MENU.
2. Press 4 to display the CHANNELS menu.



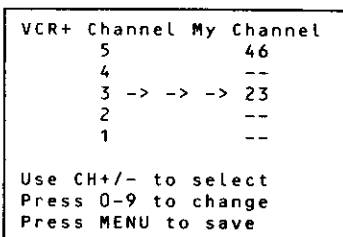
3. Press 4 to display the VCR Plus+ system SETUP screen.



4. Press 1 to display the Set Channel Lists screen



4. Enter the data following the on-screen directions using your worksheet.



Screen used is for an example only.

Two-Digit VCR Plus+ System Channel Numbers for Cable TV (U.S. List)

35	American Movie Classics
39	Arts &-Entertainment
57	Black Entertainment
54	Bravo
42	Cable News Network
45	Cinemax
98	Cinemax 2
37	The Discovery Channel
53	The Disney Channel
63	Entertainment Television
34	ESPN Sports Network
47	The Family Channel
33	Home Box Office
95	Home Box Office 2
96	Home Box Office 3
51	The Learning Channel
46	Lifetime
58	The Movie Channel
48	Music Television
49	The Nashville Network
38	Nickelodeon
64	Nostalgia Television
99	Quality Value Cable
41	Showtime
97	Showtime 2
59	Sports Channel
52	Turner Network Television
44	USA-Network
62	Video Hits 1
93	Viewer's Choice 1
94	Viewer's Choice 2
55	WGN Chicago
43	WTBS Atlanta
60	WWOR-New York

See next page for Canadian List

VCR Plus+ Programming System Channel List

Refer to your local television list for a complete VCR Plus+ system channel list for your viewing area or contact your cable company. Using the list may save you some time.

SETTING UP THE VCR

ADDITIONAL SET UP FEATURES IN THE PREFERENCES MENU

The features in this section are all accessed through the PREFERENCES menu.

1. Press MENU to display the VCR MAIN MENU.

VCR MAIN MENU	
1	VCR Plus+
2	Timer Recordings
3	Time
4	Channels
5	Setup
6	Preferences
7	Audio
8	Language
0	Exit

2. Press 6 to display the PREFERENCES menu.

PREFERENCES	
1	Remote Control: VCR1
2	Auto Play: OFF
3	Auto TV/VCR: OFF
4	EnergySaver: 2:00
5	Front Panel: BRIGHT
6	Tape Speed: SLP
7	Set Auto Repeat
8	Commercial Advance
0	Exit

Now you are ready to select an item from the menu to set up.

REMOTE VCR1/VCR2 OPTION

The VCR's remote control unit can operate up to two compatible ProScan, RCA, or GE VCRs. Most compatible VCRs automatically respond to the VCR1 button without being programmed. If you own two compatible VCRs, test them to see if the VCR1 button turns on both VCRs. If it does, then you may want to program this VCR to respond to the VCR2 button on the remote.

In the preferences menu, press 1 to select the Remote Control feature. Then press the VCR2 button to change.

PREFERENCES	
< PRESS VCR2 TO CHANGE >	
2	Auto Play: OFF
3	Auto TV/VCR: OFF
4	EnergySaver: 2:00
5	Front Panel: BRIGHT
6	Tape Speed: SLP
7	Set Auto Repeat
8	Commercial Advance
0	Exit

PREFERENCES	
1	Remote Control: VCR2
2	Auto Play: OFF
3	Auto TV/VCR: OFF
4	EnergySaver: 2:00
5	Front Panel: BRIGHT
6	Tape Speed: SLP
7	Set Auto Repeat
8	Commercial Advance
0	Exit

Remote Control Option

Remember you must press VCR1 or VCR2 on the remote—whichever you selected in the menu—before the remote will operate the VCR.

SETTING UP THE VCR

The VCR will only respond to the VCR2 button. To change the remote setting back to VCR1, display the PREFERENCES menu, press 1, and then press the VCR1 button on the remote.

AUTO PLAY

This feature allows the VCR to automatically start playing when you insert a tape with the safety tab removed. Press 2 to switch between ON or OFF.

- Select ON if you want a tape with its safety tab removed to start playing automatically when the tape is inserted.
- Select OFF if you *do not* want a tape with its safety tab removed to start playing automatically.

AUTO TV/VCR

This feature controls whether the TV/VCR switch changes automatically to the VCR mode, when the VCR is turned on. Press 3 to switch between ON and OFF.

- Select ON if you want the VCR to switch to the VCR mode when the VCR is turned on or a cassette is inserted. *This only applies if you connect the IN FROM ANT. and OUT TO TV jacks of your VCR and TV and watch your VCR on channel 3 or 4 of your TV.*
- Select OFF if you want the VCR to remain in the TV mode. This is useful if you watch your VCR on the TV's video input and you don't want your antenna/cable signal interrupted by the VCR.

ENERGYSAVER

By default, this VCR automatically turns off after two hours of inactivity. Press 4 to change the time delay or to disable the feature.

- OFF: The VCR will remain turned on until you shut it off.
- 1:00, 2:00, or 3:00: The VCR turns off after one, two, or three hours of inactivity.

Thirty seconds before shutting off, the VCR will warn you with a screen reading, "The VCR will turn off in 30 seconds. Press any key to cancel."

If you use the VCR's tuner instead of your TV to tune channels, you may want to turn this feature off.

Auto TV/VCR

Pressing TV•VCR on the VCR (ANTENNA on remote) will still switch between the VCR and TV modes.

VCR mode: VCR indicator in the display panel lights.

TV mode: VCR indicator turns off.

SETTING UP THE VCR

FRONT PANEL BRIGHTNESS (VCR DISPLAY)

You can change the brightness level of the fluorescent display panel on the front of the VCR. Press 5 to switch between the options.

- AUTO brightens the display when the VCR is on and dims the display when the VCR is off.
- BRIGHT keeps the display bright.
- DIM keeps the display at a low brightness level.

TAPE SPEED

You can select a preferred tape speed for recording. The speed you select appears in the display panel and in the timer and VCR Plus+ recording menus. Press 6 to switch between SP and SLP.

You can override the preferred tape speed:

- Press the SPEED button on the remote.
- Set the tape speed in the timer or VCR Plus+ recording menu.

When you turn off the VCR, the tape speed reverts to the one you have selected.

SET AUTO REPEAT

A tape can be set to play the same segment over and over in a repeating loop with the Set Auto Repeat feature. Set Auto Repeat uses the VCR's memory counter to determine the duration of the loop.

The Set Auto Repeat dialog box will ask for a loop end time to be specified:

```
AUTO REPEAT
Set the length of time
you want the tape to
play in a repeating loop

Loop from 0:00 to --:--
                      (h:mm)
Press CLEAR to turn off
Press MENU to exit
```

- The CLEAR key will erase all three numbers entered and move the cursor back to the first position (hours).

Tape Speeds

SP (Standard Play)

Gives the best quality recording, but fewer programs can be recorded on the tape. Special effects such as pause, slow motion, picture search, and frame advance work well when you play back tapes recorded in this speed.

SLP (Super Long Play)

Gives three times the recording time of tapes recorded in SP. Special effects such as pause, slow motion, picture search, and frame advance work when you play back tapes recorded in this speed.

Recording Times

Cassette	SP	SLP
T-120	2 Hr	6 Hr
T-160	2 Hr/40 Min	8 Hr

SETTING UP THE VCR

- The “Press CLEAR to turn off” message will appear only after the first number has been entered into the end time.
- Auto Repeat is set back to --- by resetting the dialog box, by cassette ejecting or insertion, by powering off the VCR, by power interruption, or by recording start.

When a duration time has been set:

- The VCR will automatically switch to rewind if the counter meets or goes past the Auto Repeat set duration.
- The VCR will automatically switch to playback during rewind if the counter equals or is less than 0:00.
- The Auto Repeat may be adjusted by setting the counter to 00:00. This can be done by pressing the CLEAR button while the tape counter is on screen or on the front panel display.
- The counter will not reset while rewinding in an Auto Repeat loop.

VCR BASICS

LEARN THE BASICS TO GET YOU STARTED

These VCR basics should be enough for you to begin enjoying your VCR. Learning the remote control functions, playing a recorded tape, and recording a program should do just that.

However, there are other features that enhance the enjoyment of your VCR, but they aren't necessary to get you started. If you want to learn more about your VCR, just keep reading.

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES



7 CONNECTIONS



8 REFERENCE

VCR Basics tells you what you need to know in order to watch a movie or tape your favorite show.

VCR BASICS

REMOTE BUTTONS

Your backlit remote has a light button (☉) that glows in the dark. Press this button to light the buttons on the remote. The remote buttons remain lit when they are pressed within a few seconds of each other. If a button is not pressed within approximately seven seconds, the light turns off to conserve battery power.

The remote control is capable of controlling more than just your VCR. If you have compatible ProScan, RCA, or GE components, you may be able to control them without having to program the remote.

COMPONENT BUTTONS

AUX Turns on a compatible RCA or ProScan amplifier/receiver or audio/video receiver. Can be programmed to control a ProScan or RCA auxiliary component.

DVD Controls a compatible ProScan, RCA, or GE DVD player. Use arrow and OK buttons to move around and select items in DVD's menu system.

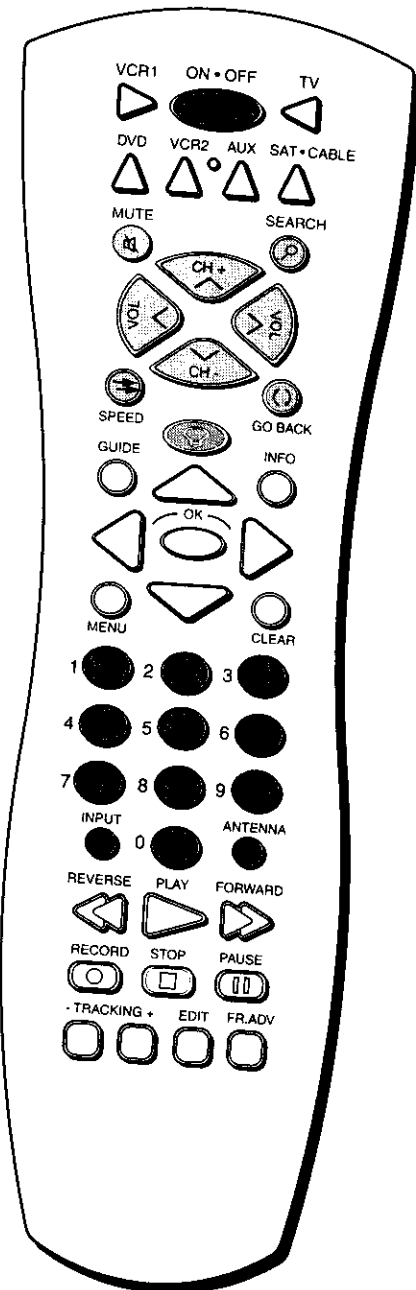
ON•OFF Turns VCR on or off when remote is set to control the VCR. Also turns other compatible components on or off.

SAT•CABLE Turns on a compatible ProScan, RCA, or GE satellite receiver and sets the remote to control the receiver. Can be programmed to control different brands of receivers. Used with the ON•OFF button to turn on a compatible cable box (if programmed) and sets the remote to control the cable box.

TV Turns on a compatible ProScan, RCA, or GE TV and sets the remote to control the TV. Also used with the ON•OFF button to turn on a different brand of TV (if programmed) and sets the remote to control the TV.

VCR1 Turns on a compatible ProScan, RCA, or GE VCR and sets the remote to control the VCR.

VCR2 Turns on a compatible ProScan, RCA, or GE VCR and sets remote to control VCR when it has been set up. Used with ON•OFF button to turn on a compatible ProScan, RCA, or GE LaserDisc player and sets remote to control the player.



VCR BASICS

VCR FUNCTION BUTTONS

ANTENNA Switches the picture signal so that it either comes from the VCR or cable/antenna system. Turns VCR indicator in VCR display panel on or off.

Arrow Buttons (↔) Allow you to move through the menus, enter data, and change settings of selected features.

CH + and – Selects next higher or lower channel in the VCR's channel memory.

CLEAR Resets time counter to 0:00:00. Allows you to change entries when setting the clock or a timer recording.

EDIT Simultaneously pauses and unpauses two VCRs when dubbing.

FORWARD Fast forwards the tape when the VCR is stopped. Searches forward through a tape during playback. Starts slow motion during play-pause and increases slow-motion speed.

FR. ADV (Frame Advance) Advances the tape one frame at a time during play-pause.

GO BACK Switches between two channels. Select one channel and then select another using the number buttons. Press GO BACK to switch between the two channels.

INFO Shows the status displays on the TV screen.

INPUT Selects between the line inputs and the VCR's tuner. Line input refers to the signal coming from the component connected to the audio/video input jacks on the back or front of the VCR.

MENU Displays and accesses menu system.

Numbers (0 through 9) Select a channel up to 99 by pressing two numbers. Select a cable channel over 99 by pressing and holding 1 until 1 -- appears on the screen. Then press the other two numbers.

ON•OFF Turns the VCR off or on.

PAUSE Pauses playback or recording. Press PAUSE again to return to playback or recording.

PLAY Plays a tape.

RECORD Starts VCR recording. Also used for Express Recording.

REVERSE Rewinds the tape when the VCR is stopped. Searches backward through a tape during playback. Starts slow motion during play-pause and decreases slow-motion speed.

VCR BASICS

SEARCH Displays MOVIE ADVANCE screen for prerecorded movies or displays index and Zero search menus on TV screen. Starts COMMERCIAL ADVANCE skipping during playback

SPEED Selects a recording speed (SP or SLP).

STOP Stops the current VCR function such as record, playback, rewind, or fast forward. If held for three seconds, this button will also eject a stopped cassette tape.

TRACKING - and + Lets you manually reduce the streaks that may appear on the picture during play or slow motion. Reduces picture "jitter" during stop-action (paused) playback.

TV FUNCTION BUTTONS

ANTENNA Switches between antenna system on some TVs.

CH + and - Selects next higher or lower channel in the TV's channel memory.

CLEAR Removes menus or status displays from the screen.

GO BACK Switches between two channels. Select one channel and then select another using the number buttons. Press GO BACK to switch between the two channels.

GUIDE Displays channel guide on some TV's.

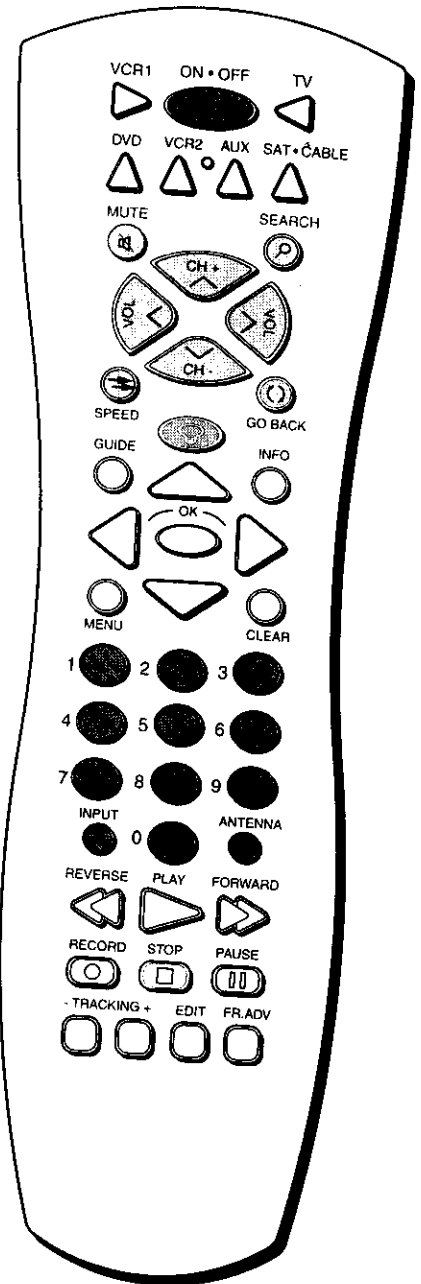
INFO Shows the TV's status displays on the TV screen.

MUTE Reduces volume to minimum level.

Numbers (0 through 9) Select a channel up to 99 by pressing two numbers. Select a cable channel over 99 by pressing and holding 1 until 1 -- appears on the screen. Then press the other two numbers.

ON•OFF Turns the TV on and off.

VOL < and > Raises and lowers sound of TV.



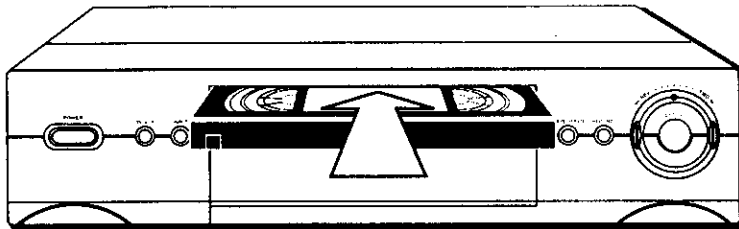
TV Buttons

The TV buttons may not control all features of all models of ProScan, RCA, and GE TVs.

VCR BASICS

PLAYING A TAPE

1. Tune the TV to your VCR viewing channel (3, 4, or TV's video input).
2. Insert a tape in the VCR.



If the Auto Play feature is set to ON, the tape automatically begins playback (if the safety tab on the cassette is removed).

- Press FWD or REV (FORWARD or REVERSE on the remote) to position the tape.
- Press PLAY (if necessary) to begin tape play.
- Press PAUSE for stop action.
- Press TRACKING up or down (TRACKING + or – on the remote) to remove any streaks from the picture, if necessary.
- Press STOP to stop playback.

AUTOMATIC REWIND

The VCR automatically rewinds the tape if it reaches the end of the tape during playback. While rewinding, you can press ON•OFF and the VCR will turn off after rewinding.

TAPE EJECT

Press and hold the STOP button on the VCR front panel or remote control for a few seconds and the VCR will eject a stopped tape.

Pause

If you pause, the VCR automatically switches from pause to stop after a few minutes to reduce tape wear.

Automatic Tracking

The VCR has automatic tracking which adjusts the picture when playing back a tape recorded on another VCR. Automatic tracking is turned on whenever a tape is inserted or the VCR's power is turned on.

VCR BASICS

RECORDING

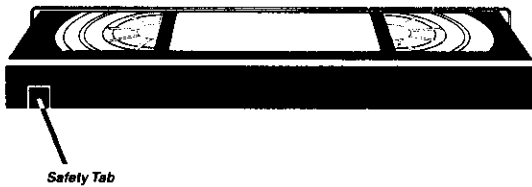
If you want to record something that you're watching, you can use basic recording.

1. Set the tape speed by pressing the SPEED button on the remote. (See "Tape Speed" in *Setting Up the VCR* section for information about tape speeds.)
2. Press the RECORD button to begin recording.
3. Press STOP to stop recording.

If you just want to pause the recording for a short time (like during a commercial), press PAUSE instead of STOP.

CHECK THE SAFETY TAB

No matter which recording option you use, make sure there is a tape in the VCR, and that the tape's safety tab is in place. You cannot record on a tape with the safety tab removed.



If the safety tab is removed and you want to record over it, simply cover the hole with vinyl tape.

RECORDING

SEVERAL RECORDING OPTIONS

Now that the necessary steps to operate the VCR have been examined, it's time to look at the different recording features available to suit various recording needs.

Recording Features:

- Recording (explained in *VCR Basics* section)
- Express Recording
- Program Express Recording
- Timer Recording
- Timer Recording with the VCR Plus+ System
- Broadcast Stereo or Second Audio Program (SAP)
- Audio Only Recording
- Copying and Editing Tapes

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES



7 CONNECTIONS



8 REFERENCE

RECORDING FEATURES

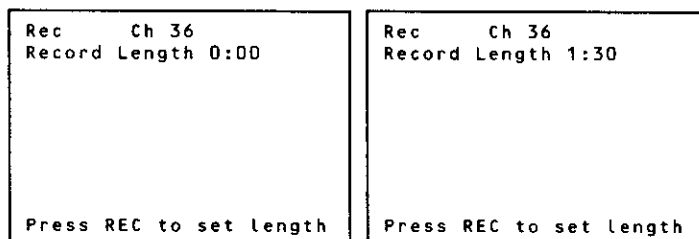
There are five ways to record programs:

- **Recording** lets you press one button to start recording a program (See *VCR Basics* section).
- **Express Recording (XPR)** allows recording to start while a program is being watched, and automatically stops recording after a designated period of time.
- **Program Express** lets you program a timer recording using the VCR's front panel controls.
- **Timer Recording** allows the VCR to be programmed for automatic recording, starting and stopping at a predetermined time.
- **Timer Recording with VCR Plus+** allows the VCR to be programmed to record just by entering a PlusCode programming system number found in some TV program guides.

EXPRESS RECORDING (XPR)

Use express recording when you want to quickly record the remaining portion of the program you are watching.

1. Press the SPEED button on the remote if you want to override the preferred Tape Speed setting.
2. Press the RECORD button to begin recording.
3. Repeatedly press the RECORD button to set up the recording duration.



Each time you press the RECORD button, you add 30 minutes to the recording time (up to 4 hours).

The VCR continues to record for the amount of time you indicate, and then automatically turns off.

To stop an express recording, press and hold STOP for several seconds until STOP appears.

Express Recording (XPR)

Express recording is a great way to tape the last quarter of the game, or the last part of a movie when you have to leave.

RECORDING

PROGRAM EXPRESS

Program Express allows you to quickly program the VCR for a complete one-time recording using the VCR's control panel instead of the on-screen menus. The VCR automatically turns off at the end of the recording. You can use the arrow keys on the remote control or the VCR's front panel to move through these menus.

1. Insert a tape with the safety tab in place. Make sure the clock is set correctly.
2. Open the control door in the lower left corner of the VCR's front panel.
3. Press PROG. EXP. to activate the display. The channel number flashes in the display panel.
4. Use the up ▲ and down ▼ arrow buttons to choose a channel, then press PROG. EXP. to select it.
5. Repeat step 4 to enter START time, END time, DATE of recording, and tape SPEED information.
6. Press PROG. EXP. when SAVE flashes in the display. SAVED appears to let you know the program is set.

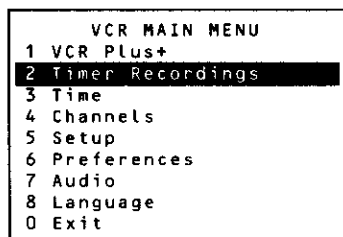
Use the up ▲ and down ▼ arrow buttons to review or cancel your entries.

7. Turn off the VCR.

TIMER RECORDING

You can set up as many as eight timer recording programs.

1. Press MENU to display the VCR MAIN MENU.



2. Press 2 to display the TIMER RECORDINGS menu.

RECORDING

```
TIMER RECORDINGS
1 Create a New Program
2 Review Existing Progs.
3 Use VCR Plus+ Code

0 Exit
```

3. Select 1 to create a New Program.

```
How often should this
program record?
1 One time
2 Daily (every day)
3 Weekdays (M-F)
4 Weekly (once per week)

0 Cancel
```

4. Select how often you want the program to record.

```
Program 1 (One time)
Channel  --
Start Time ---:--
End Time  ---:--
Start Date --/--/--
Tape Speed SLP

Press MENU to cancel
```

5. Enter the data for the program with the number buttons.

The data includes the channel number (press INPUT to select the line input), start time including AM or PM, and end time. The start date is automatically entered based on the VCR clock. Both the date and speed can be changed.

6. Review the information to make sure it is correct, and then press MENU to save.

```
Program 1 (One Time)
Channel  03 Cable
Start Time 08:00 PM
End Time  09:30 PM
Start Date 11/16/00 Thu
Tape Speed SLP
          1=SP 2=SLP
Press CLEAR to correct
Press MENU to save
```

```
Program 1 has been saved
Remember to insert a
recordable tape and
turn the VCR off before
the program start time.

Remember to leave your
cable box on and tuned
to the desired channel.
```

Timer Recording Information

Clock must be set correctly.

Insert a tape with the safety tab in place and enough tape to record the program.

The output of your cable box appears in the Channel item of the timer recording menu if you've set up the VCR for a cable box for all channels.

PROGRAMS OVERLAP appears if you have entered two programs where the times overlap.

TIMER appears in the display when you turn off the VCR and a timer recording has been set. **TAPE** flashes if there is no tape in the VCR.

For cable box or satellite receiver, turn it on and tune it to the channel you want to record before the recording is to begin.

RECORDING

TIMER RECORDING WITH THE VCR PLUS+ PROGRAMMING SYSTEM

You can use VCR Plus+ to simplify timer programming by using the PlusCode® programming number shown in your local television programming guide.

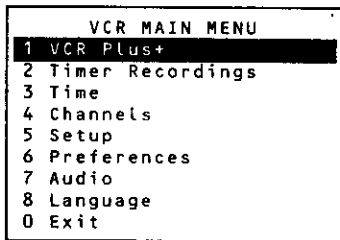
SETTING UP THE CHANNEL LIST

If you did not set up the VCR Plus+ channel list, you can do it now.

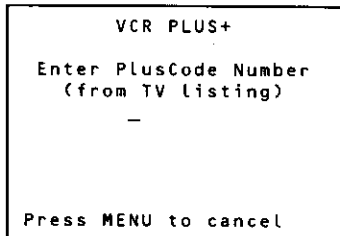
1. Display the CHANNELS menu from the VCR MAIN MENU.
2. Display the VCR Plus+ Channel List menu.
3. Go to *Setting Up Your VCR* if you need more information on setting up your VCR Plus+ channel list.

USING THE VCR PLUS+ PROGRAMMING SYSTEM

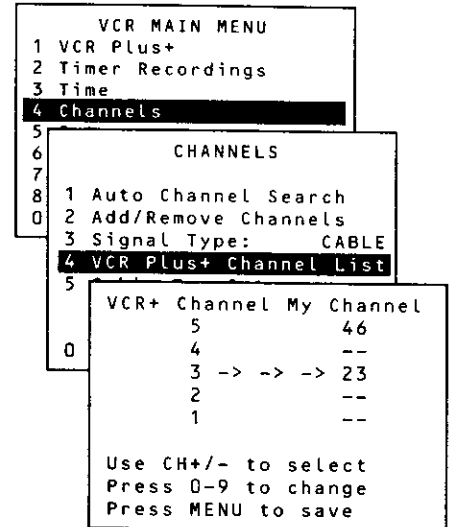
1. Press MENU to bring up the VCR MAIN MENU.



2. Press 1 to display the VCR PLUS+ system menu.



3. Enter the VCR PlusCode system shown in your local television programming guide (*Screen shown is just an example*).



(Continues on next page)

PlusCode is a registered trademark of the Gemstar Development Corporation.
The VCR Plus+ system is manufactured under the license from Gemstar Development Corporation.

RECORDING

(Continued from previous page)

```
VCR PLUS+
Enter PlusCode Number
  (from TV Listing)
  12876

Press CLEAR to correct
Press MENU when done
```

4. Press MENU to enter the VCR PlusCode system number.

```
How often should this
program record?

1 One time
2 Daily (every day)
3 Weekdays (M-F)
4 Weekly (once per week)

0 Cancel
```

5. Indicate how often you want the program to be recorded.

```
Program 1 (One time)

Channel 03 Cable
Start Time 08:00 PM
End Time 09:30 PM
Start Date 11/16/00 Thu
Tape Speed SLP

Press CLEAR to adjust
Press MENU to save
```

6. Change the speed with the SPEED button on the remote or the program end time with the CLEAR button on the remote (if necessary).

Changing the end time comes in handy when you are recording a program, such as a sporting event, that may exceed the scheduled broadcast time.

7. Press MENU to save the program.

```
Program 1 has been saved

Remember to insert a
recordable tape and
turn the VCR off before
the program start time.

Remember to leave your
cable box on and tuned
to the desired channel.
```

VCR Plus+ Recording

Clock must be set correctly.

Insert a tape with the safety tab in place and enough tape to record the program.

UNRECOGNIZED NUMBER... PLEASE RE-ENTER appears when the VCR does not recognize the PlusCode number.

PROGRAMS OVERLAP appears if you have entered two programs where the times overlap.

TIMER appears in the display when you turn off the VCR and a timer recording has been set. **TAPE** flashes if there is no tape in the VCR.

For a cable box, turn it on and tune it to the channel you want to record before the recording is to begin.

RECORDING

STOPPING A TIMER RECORDING

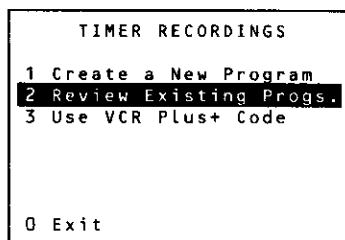
To stop or cancel a timer recording in progress (even an Express Recording):

- Press and hold the STOP button for several seconds until STOP appears.

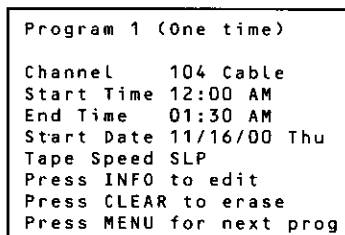
REVIEWING AND CLEARING PROGRAMS

To review programs that you have already set up:

1. Press 2 when the VCR MAIN MENU is displayed to display the TIMER RECORDINGS menu.



2. Press 2 to display the Review Existing Progs. screen.

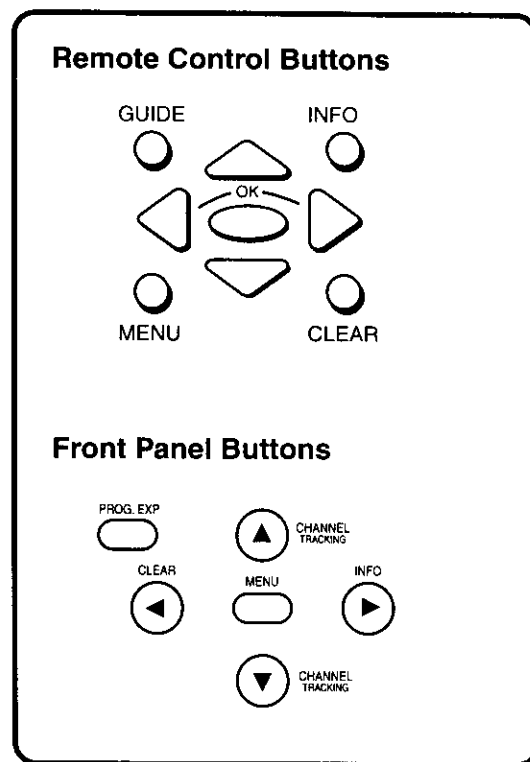


3. Press INFO to edit, CLEAR to erase, or MENU to see the next program if there is one.

EDITING A TIMER PROGRAM

Instead of having to delete and re-enter a timer program, you can edit incorrect entries of the program.

1. Display the program you want to edit, and press INFO.
2. Indicate how often you want the program to be recorded.
3. Use the CLEAR or left ◀ and right ▶ buttons to move the cursor to the item you want to change.
4. Use the number or up ▲ and down ▼ buttons to enter the correct information in the program.
5. When you have made your correction(s), press MENU to save the timer program.

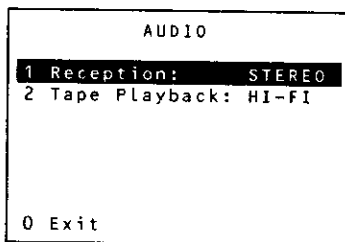


RECORDING

RECORDING BROADCAST STEREO TV OR SAP (SECOND AUDIO PROGRAM)

Some TV programs are broadcast with stereo audio or SAP (Second Audio Program).

1. Turn on the TV and tune it to the VCR viewing channel (either 3, 4, or TV's video input).
2. Insert a tape with safety tab in place.
3. If your VCR viewing channel is 3 or 4, make sure the VCR indicator appears in the VCR's display panel. If not, press TV•VCR on the VCR or ANTENNA on the remote to turn it on.
4. Press the SPEED button on the remote if you want to override the preferred Tape Speed setting. The tape speed indicator appears on the TV screen.
5. Select the channel or line input to be recorded.
6. Set the Reception: STEREO/MONO/SAP feature for the type of audio you want to record. See *Other Features* section.



7. Press RECORD to start recording.
8. Press STOP when you are finished.

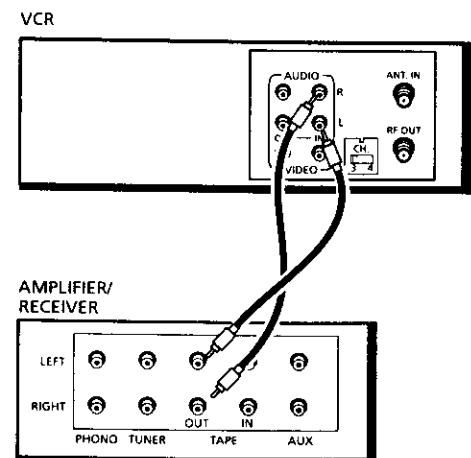
RECORDING AUDIO ONLY

You can record audio only from another audio source connected to either the AUDIO IN 1 (R and L) jacks on the back of the VCR or the jacks on the front of the VCR.

1. Press the INPUT button once to record from the back AUDIO IN jacks. L1 will appear in the VCR's display panel. Press the INPUT button twice to record from the front AUDIO IN jacks. L2 will appear in the VCR's display panel.
2. Press the SPEED button on the remote if you want to override the preferred Tape Speed setting.
3. Start audio source playing and press RECORD to begin recording.
4. Press STOP when you are finished.

Recording only audio will erase anything previously recorded on the tape.

Audio Connection



RECORDING

PLAYING BACK AUDIO ONLY

To get stereo sound, connect the AUDIO OUT jacks of the VCR to the appropriate input on your amplifier or receiver. Do not use the phono input. Refer to your amplifier or receiver user's guide.

USING TWO VCRs FOR COPYING AND EDITING TAPES

Use one VCR as the *playback VCR* and the other as the *recording VCR*.

1. Turn on the TV and VCRs.
2. Tune the TV to the VCR viewing channel (either 3, 4, or TV's video input).
3. If you connected your VCR using the IN FROM ANT. and OUT TO TV jacks, tune *recording VCR* to channel 3 or 4—the one selected on the back of the *playback VCR*.

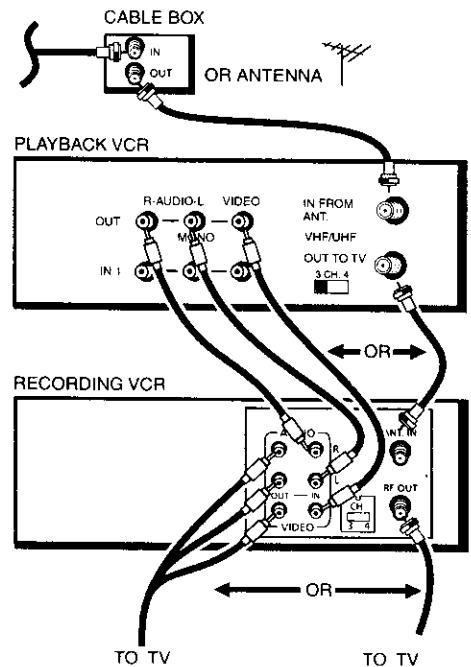
If you have connected your VCR using the audio/video jacks, press INPUT on the *recording VCR's* remote to select the line input. Select L1 for the jacks on the back of the VCR or L2 for the jacks on the front.

4. Insert the tape you want to copy into the *playback VCR*. Insert a blank tape with safety tab in place into the *recording VCR*.
5. Press PLAY on the *playback VCR* to begin playback. When you reach the point on the tape or program where you want to begin copying, press PAUSE. You may need to adjust the tracking.
6. Press the RECORD button, then press PAUSE, on the *recording VCR*.
7. Press the PAUSE buttons on *both VCRs* at the same time to begin copying the tape.
8. To edit segments that you do not want to copy:
 - Press PAUSE on *recording VCR* to pause copying.
 - Locate the next segment you want to copy on *playback VCR* by using FWD, REV, and PLAY, and then press PAUSE.
 - Press PAUSE on *both VCRs* at the same time to resume copying.
9. Press STOP on *both VCRs* when you are finished.

Caution:

The unauthorized recording of satellite broadcasts, television programs, or other copyrighted materials may infringe the rights of others.

Two VCR Connection



Note that the two VCRs used in the diagram may not look exactly like the VCRs you are connecting. The important thing is to match the proper cable connections. Use the OUT jacks of the playback VCR to connect to IN jacks of the recording VCR. R output jacks connect to R INPUT jacks, L output to L input, and VIDEO out connects to VIDEO in.

RECORDING

USING DUAL REMOTE WITH AUTOEDIT

Use this VCR as the *playback VCR* and set it to respond to VCR2 on the remote as described in *Setting Up the VCR* section. Use your other compatible VCR as the *recording VCR*, which should respond to VCR1.

1. Follow step 1–4 in the “Using Two VCRs for Copying and Editing Tapes.”
2. Press VCR1 on remote to control *recording VCR*. Press RECORD (REC), then PAUSE, to put recording VCR in pause mode.
3. Press VCR2 on remote to control *playback VCR*.
4. Use FORWARD, REVERSE, and PLAY to locate the point where you want to begin copying. Press PAUSE while VCR is playing to put *playback VCR* in pause mode.
5. Press EDIT on remote to start the VCRs copying.
6. Press EDIT again when you want to pause copying.
7. Repeat step 4–6 as needed.
8. Press VCR1, STOP, then VCR2, STOP, when you are finished.

PROGRAM THE REMOTE

CONTROLLING YOUR OTHER COMPONENTS...

The remote's TV and SAT•CABLE buttons can be programmed to control other brands of remote controllable TVs, digital satellite receivers, and cable boxes. The remote is already programmed to operate most ProScan, RCA, and GE televisions and satellite receivers.

The AUX button can be programmed to control a ProScan or RCA auxiliary component.

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES



7 CONNECTIONS



8 REFERENCE

PROGRAM THE REMOTE

ABOUT PROGRAMMING THE REMOTE

The universal remote's TV and SAT•CABLE buttons can be programmed to control other brands of remote controlled TVs, digital satellite receivers, and cable boxes. Your remote is already programmed to operate most ProScan, RCA, and GE televisions as well as digital satellite receivers.

The AUX button can be programmed to control a ProScan or RCA auxiliary component.

TESTING THE REMOTE

To determine whether the universal remote needs to be programmed, turn the component on (such as a TV), point the remote at the TV and press the TV button. Then press ON•OFF, CH +, or CH - to see if the TV responds to the remote commands. If the TV does not respond, then the remote control needs to be programmed.

PROGRAMMING THE REMOTE TO CONTROL A TV, SATELLITE RECEIVER, OR CABLE BOX

The remote features Code Search, a technology that largely automates the programming process. Follow these steps to program the remote to control a TV, digital satellite receiver, or cable box.

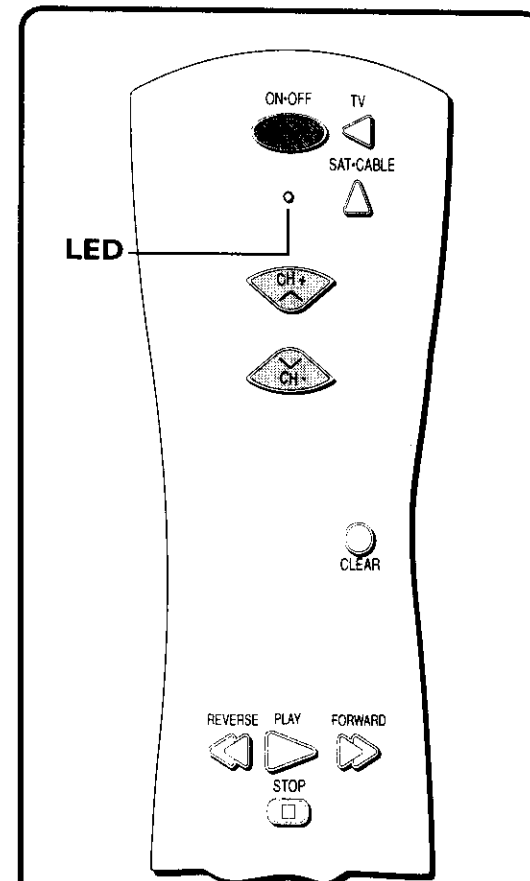
1. Turn on the component you want to control (TV, digital satellite receiver, or cable box).
2. Press and hold the button you want to program (TV or SAT•CABLE). While holding the component button, press and hold ON•OFF until the LED on the remote flashes, then release both buttons.

3. Press and release PLAY, then wait five seconds.

The remote searches through a set of codes. If, after five seconds, the component does not turn off, press PLAY again to tell the remote to search the next set of codes.

You can press FORWARD to individually search through the last ten codes that were transmitted when you pressed PLAY.

4. Repeat step 3 until the component turns off, or you have searched through all of the codes.



You'll use these buttons when you program the remote to control a TV, digital satellite receiver, or cable box.

PROGRAM THE REMOTE

To cancel Code Search, press and hold CLEAR until the LED turns off.

There are 20 total sets of codes. If the device does not turn off after pressing PLAY 20 times, the remote cannot control that particular component.

If the component you want to control *does* turn off:

1. Press and release REVERSE, then wait two seconds. Repeat this step until the component turns back on. This means the remote has identified the correct code.
2. To finish, press and hold STOP until the LED turns off.

USING DIRECT ENTRY

Direct Entry is another way to program your remote if the Automatic Code Search is unsuccessful.

1. Turn on the component to be programmed.
2. Look up the brand and code number(s) for the component in the code list on page 41.
3. Press and hold the button on the remote you want to program.
4. Enter the code from the list on page 41.
5. Release the button, and then press ON•OFF to see if the component responds to the remote commands. If it doesn't, try pressing the component button and then ON•OFF again.
6. Repeat these steps using the next code listed for your brand if you get no response.

OPERATING COMPONENTS

After programming the remote, see which buttons operate your component.

1. Point the remote at the component, and press its corresponding button on the remote.
2. Experiment to see which buttons operate your component. Try pressing buttons that relate directly to the component.

This remote may not operate all models and/or brands of components.

Note the difference between the VCR and other component's on-screen displays to determine which one the remote is operating.

PROGRAM THE REMOTE

PROGRAMMING THE REMOTE TO CONTROL AN AUXILIARY COMPONENT

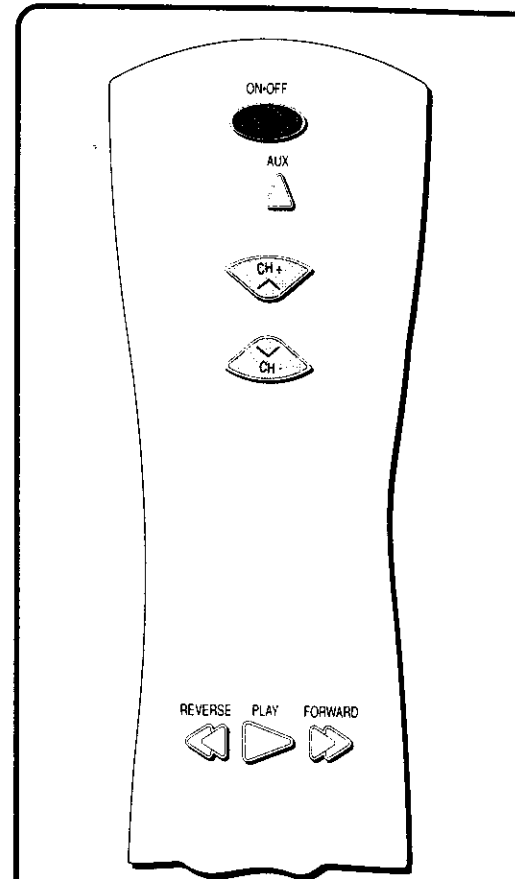
Your remote can also control the brands of the equipment listed, such as a radio, CD player, tape player, or phonograph. It is already programmed to control some ProScan and RCA amplifiers and audio/video receivers.

1. Turn on the component to be programmed.
2. Look up your component's code number on the code list.
3. Press and hold the AUX button.
4. Enter the 4-digit code from the code list on the next page.
5. Release the AUX button and press ON•OFF or CHAN up or down to see if the auxiliary component responds to the remote commands.

OPERATING THE AUXILIARY COMPONENT

After you have programmed your remote, see which buttons will operate your component.

1. Point the remote at the component and press AUX. If it does not turn on, press AUX and then ON•OFF.
2. You may want to experiment to see which buttons will operate your component. Try pressing buttons, such as play, REVERSE, and FORWARD.



You'll use these buttons when you program the remote to control an auxiliary component.

Auxiliary Component Codes ProScan/RCA/Dimensia (only)

AM/FM	0003
Auxiliary Component	0004
Phono	0005
Tape I	0006
CD	0007

This remote may not operate all models of the brands that are shown.

PROGRAM THE REMOTE

TV

ABEX	1172
Admiral	1001, 1173
Adventura	1174
Aiko	1016
Alleron	1046
Amtron	1038
Akai	1002
Anam National	1003, 1038
AOC	1004, 1005, 1006, 1007, 1175, 1176
Audiovox	1038
Belcor	1004
Bell & Howell	1001, 1083, 1162
Bradford	1038
Brokwood	1004
Candle	1004, 1006, 1008, 1174
Capehart	1175
Celebrity	1002
Centurio	1009
Citizen	1004, 1006, 1008, 1016, 1038, 1105, 1171, 1174, 1177
Clairton	1176
Colortyme	1004, 1006
Concerto	1004, 1006
Contec/Cony	1012, 1013, 1014, 1038, 1176
Craig	1038
Crown	1038, 1171
Curtis-Mathes	1000, 1004, 1006, 1015, 1105, 1162, 1171
CXC	1038
Daewoo	1004, 1005, 1006, 1016, 1017, 1018, 1127, 1171
Daytron	1004, 1006, 1171
Dimensia	1000
Dumont	1004, 1151
Dynatech	1178
Electronband	1002, 1176
Electrohome	1003, 1004, 1006, 1019, 1022
Emerson	1004, 1006, 1012, 1014, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1041, 1042, 1043, 1044, 1046, 1047, 1123, 1124, 1162, 1171, 1176, 1177, 1179, 1191
Envision	1004, 1006
Fisher	1048, 1049, 1050, 1051, 1162, 1180
Fujitsu	1046
Funai	1038, 1046
Futuretec	1038
GE	1000, 1003, 1004, 1006, 1022, 1052, 1054, 1055, 1087, 1164, 1165, 1166, 1167, 1168, 1181
Gibralter	1004, 1151
Goldstar	1004, 1005, 1006, 1012, 1019, 1056, 1057, 1058, 1155, 1156, 1171, 1172
Grundig	1038, 1046, 1171
Hallmark	1004, 1006
Harvard	1038
Hitachi	1004, 1006, 1012, 1013, 1059, 1060, 1061, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1148, 1150, 1179
IMA	1038
Infinity	1062
Janeil	1174
JBL	1062
JCB	1002
JC Penney	1000, 1004, 1005, 1006, 1008, 1022, 1052, 1054, 1058, 1063, 1064, 1072, 1087, 1105, 1128, 1171, 1172, 1181
Jensen	1004, 1006
JVC	1012, 1013, 1054, 1060, 1065, 1066, 1067, 1089, 1157, 1158, 1159, 1182
Kawasho	1002, 1004, 1006
Kaypani	1175
Kenwood	1004, 1006, 1019
Kloss Novabeam	1068, 1069, 1174, 1183
KTV	1038, 1070, 1171, 1176, 1177
Loewe	1062
Logik	1083
Luxman	1004, 1006
LXI	1000, 1006, 1049, 1062, 1071, 1072, 1073, 1162, 1181
Megatron	1006, 1059
Magnavox	1004, 1006, 1008, 1019, 1062, 1068, 1069, 1074, 1075, 1076, 1077, 1088, 1089, 1130, 1131, 1132, 1133, 1134, 1183, 1184
Majestic	1083
Marantz	1062
Marantz	1004, 1006, 1062, 1078
MEI	1176
Memorex	1001, 1006, 1082, 1083, 1162
MGA	1004, 1005, 1006, 1019, 1022, 1051, 1079, 1080, 1082

Midland	1054, 1151, 1171, 1172, 1181
Minutz	1052
Mitsubishi	1004, 1005, 1006, 1019, 1022, 1051, 1079, 1080, 1081, 1082, 1125
Montgomery Ward	1083
Motorola	1003, 1173
MTC	1004, 1005, 1006, 1105, 1176, 1178
Multitech	1038, 1178
Multivision	1084
NAD	1006, 1071, 1072, 1185
NEC	1003, 1004, 1005, 1006, 1089
NIKKO	1006, 1016
NTC	1016
Onwa	1038
Optimus	1185
Optonica	1095, 1173
Orion	1035, 1191
Panasonic	1003, 1054, 1062, 1170
Philco	1003, 1004, 1005, 1006, 1008, 1012, 1019, 1062, 1068, 1069, 1074, 1075, 1077, 1183, 1184
Philips	1003, 1004, 1008, 1012, 1019, 1062, 1068, 1069, 1074, 1075, 1076, 1086, 1087, 1088, 089
Pilot	1004, 1171
Pioneer	1004, 1006, 1090, 1091, 1092, 1179, 1185
Portland	1004, 1005, 1006, 1016, 1171
Price Club	1105
Prism	1054
ProScan	1000, 1181
Proton	1004, 1006, 1012, 1093, 1175
Pulsar	1151
Pulsar	1004
Quasar	1003, 1054, 1070, 1094
Radio Shack/Realistic	1000, 1004, 1006, 1012, 1038, 1049, 1095, 1162, 1171, 1172
RCA	1000, 1003, 1004, 1005, 1006, 1007, 1019, 1096, 1098, 1099, 1100, 1101, 1102, 1103, 1129, 1179, 1181, 1187, 1188, 1190
Rhapsody	1176
Runco	1151
Sampo	1004, 1006, 1171, 1172, 1175
Samsung	1004, 1005, 1006, 1012, 1015, 1019, 1104, 1105, 1106, 1171, 1172
Samsux	1171
Sansui	1191
Sanyo	1004, 1048, 1049, 1050, 1080, 1107, 1108, 1162, 1169, 1180
Scotch	1006
Scott	1004, 1006, 1012, 1024, 1035, 1038, 1046
Sears	1000, 1004, 1006, 1013, 1019, 1046, 1048, 1049, 1050, 1051, 1066, 1071, 1072, 1109, 1110, 1162, 1180, 1181, 1189
Sharp	1004, 1006, 1012, 1029, 1095, 1111, 1112, 1113, 1122, 1171, 1173
Shogun	1004
Signature	1001, 1083, 1115
Simpson	1008
Sonic	1176
Sony	1002
Soundesign	1004, 1006, 1008, 1038, 1046
Squareview	1189
SSS	1004, 1038
Starlite	1038
Supre-macy	1174
Supreme	1002
Sylvania	1004, 1006, 1008, 1019, 1062, 1068, 1069, 1074, 1075, 1076, 1077, 1088, 1116, 1161, 1183, 1184
Symphonic	1033, 1038, 1189
Tandy	1173
Tatung	1003, 1178
Technics	1054
Techwood	1004, 1006, 1054
Teknika	1004, 1005, 1006, 1008, 1012, 1013, 1016, 1038, 1046, 1076, 1082, 1083, 1105, 1170, 1171
Telecaption	1117
TMK	1004, 1006
Toshiba	1049, 1071, 1072, 1089, 1105, 1109, 1117, 1118, 1160, 1162
Totevision	1171
Universal	1052, 1087
Victor	1066, 1182
Vidtech	1004, 1005, 1006
Viking	1174
Wards	1000, 1001, 1004, 1005, 1006, 1019, 1024, 1033, 1046, 1052, 1062, 1068, 1069, 1074, 1075, 1076, 1083, 1087, 1088, 1095, 1119, 1120, 1184
Yamaha	1004, 1005, 1006, 1019
Zenith	1004, 1151, 1152, 1153, 1154

Archer	5008, 5009, 5010, 5011
Cabletenna	5008
Cableview	5008
Century	5011
Citizen	5011
Colour Voice	5012, 5013
Comtronics	5014, 5015
Contec	5016
Eastern	5017
Garrard	5011
GC Electronics	5009
Gemini	5018, 5019, 5049
General Instrument	5003
Hamlin	5020, 5021, 5022, 5035, 5045
Hitachi	5003
Hytex	5002
Jasco	5011
Jerrold	5003, 5005, 5007, 5018, 5023, 5024, 5046, 5053
Magnavox	5025
Memorex	5026
Movie Time	5002, 5027, 5028
NSC	5002, 5027, 5028
Oak	5002, 5016, 5029
Panasonic	5048, 5052
Paragon	5026
Philips	5011, 5012, 5013, 5019, 5025, 5030, 5031, 5032
Pioneer	5033, 5034
Pulsar	5026
RCA	5047, 5049, 5052
Realistic	5009, 5049
Regal	5022, 5035
Regency	5017
Rembrandt	5003
Runco	5026
Samsung	5014, 5034
Scientific Atlanta	5006, 5036, 5037, 5038
Signal	5014, 5018
Signature	5003
SL Marx	5014
Sprucer	5052
Starcom	5007, 5018, 5053
Stargate	5014, 5018
Starquest	5018
Tandy	5040
Television	5014
Tocom	5004, 5023, 5041
Toshiba	5026
Tusa	5018
TV86	5027
Unika	5008, 5009, 5011
United Artists	5002
United Cable	5053
Universal	5008, 5009, 5010, 5011
Videoway	5044
Viewstar	5015, 5025, 5027, 5040
Zenith	5026, 5050, 5051

Satellite Receiver

Chapparral	5056, 5057
Drake	5058, 5059
GE DBS	5000, 5001
General Instruments	5060, 5061, 5062
Panasonic	5075
Primestar	5076
Proscan	5000, 5001
RCA	5000, 5001
Realistic	5063
Sony	5072
ST51	5064
ST52	5065
ST53	5066
ST54	5067
Toshiba	5068
Toshiba	5073
Uniden	5069

Auxiliary

(For some PROSCAN, RCA, GE and Dimensia brands only)	
AM/FM	0003
Auxiliary Component	0004
CD	0007
DBS1	0008
DBS2	0011
DVD	0010
Phono	0005

Cable Box

ABC	5002, 5003, 5004, 5005, 5006, 5007, 5053
Antronix	5008, 5009

OTHER FEATURES

FEATURES TO ENHANCE VCR OPERATION

- Commercial Advance
- Movie Advance
- Picture Search Options
- Pro-Tect Plus™ Locking
- Tracking
- Time Counter
- On-Screen Displays
- Audio Reception
- Audio Tape Playback

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES



7 CONNECTIONS



8 REFERENCE

OTHER FEATURES

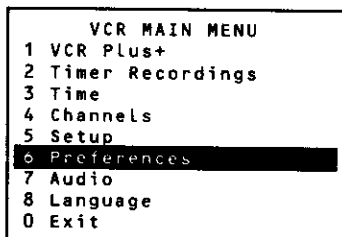
COMMERCIAL ►► ADVANCE®

The feature, Commercial Advance, is patented technology that detects and marks most commercials on your tape for any recording that is more than 15 minutes long. After recording, the VCR rewinds the tape to the beginning of the recording and determines where the commercials are located. It then marks the beginning and end of the detected commercial segments, and when finished, returns the tape to the end of the recording. **It does not erase commercials from the tape.**

During playback, the VCR automatically skips the detected commercial segments, or you can chose to manually skip them. This feature reduces three minutes of commercials to approximately 8-12 seconds of fast forwarding in the SLP speed. You can select a background display of blue or see the recorded video as the commercials are skipped.

Because television signals do not indicate where the ads are located, the Commercial Advance feature finds and marks them through a set of formulas based on how television is broadcast. Since television stations broadcast differently and insert their own commercials, you may experience some variations in this feature's effectiveness. Station promotions, identifications, and announcements are not considered commercials, but might be skipped by this feature. For more information, see "Questions and Answers About Commercial Advance" in the *Reference* section of this manual. All Commercial Advance features are accessed through the COMMERCIAL ADVANCE menu.

1. Press MENU to display the VCR MAIN MENU.



2. Press 6 to display the PREFERENCES menu.

COMMERCIAL ADVANCE is a registered trademark of SRT, Inc.

OTHER FEATURES

```

      PREFERENCES
1 Remote Control: VCR1
2 Auto Play:      OFF
3 Auto TV/VCR:   OFF
4 EnergySaver:   2:00
5 Front Panel:   BRIGHT
6 Tape Speed:    SLP
7 Set Auto Repeat
8 Commercial Advance
0 Exit

```

3. Press 7 to display the COMMERCIAL ADVANCE menu.

```

      COMMERCIAL ADVANCE
1 Marking:        ON
2 Playback:       AUTO
3 Display:        BLUE

0 Exit

```

Now you can select one of the COMMERCIAL ADVANCE features.

COMMERCIAL ADVANCE MARKING

Press 1 to turn commercial Marking: ON or OFF.

- Select ON, and the VCR will mark commercials within approximately 30 seconds for the following types of recording:
 - **Timer, Timer with VCR Plus+, or Express Recording** Sets the VCR to automatically mark commercials after the power is tuned off.
 - **Recording** Allows the VCR to prompt you to mark the commercials when you've stop the recording.

```

The VCR is waiting to
mark commercials in the
program you recorded.

1 Mark them now
2 Mark them later
3 Don't mark commercials

The VCR will begin
marking in 30 seconds...

```

- Select OFF and the VCR will not mark the commercials.

Commercial Advance and Multiple Timer Recordings

When using the timer to record two or more back-to-back programs on the same channel, you might want to set each up separately in the timer menu. This way, introductions and conclusions of each show are not skipped.

OTHER FEATURES

COMMERCIAL ADVANCE PLAYBACK

Press 2 to switch between Playback: AUTO and MANUAL.

- Select AUTO to have the VCR automatically advance through the blocks of marked commercials.
 - * It works with most 30, 45, and 60-second commercials.
 - * A commercial group starting with the first two minutes or last two minutes of a recording will not automatically be skipped.
 - * A commercial will not be skipped if a recording starts in the middle of a commercial segment, one isolated commercial is shown without others, or a commercial is longer than one minute. Press FWD on the VCR (FORWARD on remote) to scan through the commercial.
 - * Part of a recorded program may be skipped if the program segment is either between commercials and is less than one minute, or there are frequent dark and quiet scenes in the program. If this happens, automatic skipping can be temporarily stopped by pressing PLAY (or STOP) on the remote control while that portion of the tape is being skipped. Then, reverse the tape back to a point just before the segment starts and press PLAY. Automatic skipping will be re-enabled after the VCR detects the end of the segment.
- Select MANUAL and the VCR won't advance through the blocks of marked commercials until you press SEARCH.

If you press SEARCH during playback of material other than commercials, the VCR advances to the end of the next "marked" commercial block and resumes playback.

The VCR resumes playback when it reaches the end of the marked commercials.

COMMERCIAL ADVANCE DISPLAY

Press 3 to switch between Display: BLUE or VIDEO.

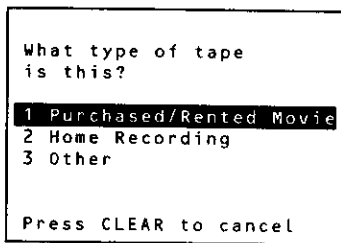
- Select BLUE to display a blue background when the VCR advances through the block of marked commercials.
- Select VIDEO to display the recorded video when the VCR advances through the block of marked commercials.

OTHER FEATURES

MOVIE ►► ADVANCE®

The Movie Advance feature helps you locate certain parts of prerecorded movies (rented or purchased). This feature works two ways: 1) you can go to the beginning of the movie, or, 2) you can skip from one preview to the next. The feature works only on cassettes recorded in the SP speed with the safety tab removed.

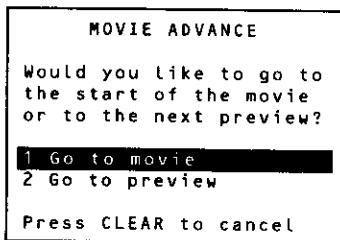
1. To select the Movie Advance feature, insert a tape with the safety tab removed and press SEARCH. The following menu appears:



2. Press 1 if the tape is a purchased or rented movie, press 2 if it's a recording made at home, or press 3 if it's something else, you don't know, or you do not want to use the Movie Advance feature.

Pressing 2 or 3 gives the same response and takes you to a different search feature. If you accidentally make a wrong selection, press STOP•EJECT on the VCR (STOP on remote) and reinsert the tape. Press SEARCH.

If you press 1, the MOVIE ADVANCE menu appears.



3. Press 1 to advance directly to the beginning of the movie or press 2 to view the first (next) preview.

The Movie Advance feature works only on cassettes recorded in the SP speed with the safety tab removed.

(Continues on next page)

OTHER FEATURES

(Continued from previous page)

- Press 1 to Go To Movie and bypass all previews. The following screen appears with a blue background:

```
MOVIE ADVANCE

Searching for start
of movie...

Rewinding tape

Press STOP to cancel
```

When the movie is found, the following screen is displayed:

```
MOVIE ADVANCE

The movie is ready.
Press PLAY to start.

Press STOP to cancel
```

- Press 2 to go to the first preview. The following screen appears with a video background:

```
Searching for preview...

Press SEARCH to reverse
Press STOP to cancel
```

While the VCR is searching through previews:

- Pressing SEARCH on the remote control reverses the direction of the search.
- Pressing STOP cancels the preview search mode.

When a preview is detected, the VCR cues it and begins playing.

```
Press SEARCH for next
```

While the VCR is playing a preview:

- Pressing SEARCH on the remote control will search and cue the next preview.

Searching for Previews

While the VCR is searching for the next preview, pressing **SEARCH** on the remote control reverses the direction of the search and pressing **STOP** will cancel the search.

After the VCR has found the beginning of a preview and started playing it, press **SEARCH** to advance to the start of the next preview.

OTHER FEATURES

PICTURE SEARCH OPTIONS

The most basic way to search during playback is using the FORWARD or REVERSE buttons (FWD and REV on the VCR). This section contains several other options available for searching a tape.

FORWARD AND REVERSE SEARCH

You can search a tape during playback. Sound is turned off during picture search. Search works well for tapes recorded at the SP or SLP speed.

1. Press FORWARD (FWD) to search forward or REVERSE (REV) to search in reverse.
2. Press FORWARD (FWD) or REVERSE (REV) again or press PLAY to return to normal playback.

SLOW MOTION

You can view a tape during play or play-pause using slow motion. Slow motion works well for tapes recorded at the SP or SLP speed.

1. In pause mode, press FORWARD (FWD) or REVERSE (REV) to start slow-motion playback.
2. Press FORWARD (FWD) to increase or REVERSE (REV) to decrease the speed of the search.
3. Use TRACKING + or – to remove any streaks from the picture.
4. Press PLAY to return to normal playback.

The VCR switches automatically from slow-motion playback to stop after a few minutes.

OTHER FEATURES

FRAME ADVANCE

Frame advance lets you view one-stop action frame after another during playback. Frame advance works well for tapes recorded at the SP or SLP speed.

1. Press PAUSE on the remote (PLAY/PAUSE on the VCR) to freeze the action.
2. Press FR. ADV on the remote each time you want to view the next frame of the scene.
3. Press PAUSE or PLAY on the remote (PLAY/PAUSE on the VCR) to return to normal playback.

VARIABLE SPEED USING THE SHUTTLE RING

The shuttle ring on the VCR's front panel allows variable speed searching during playback. The picture is best for tapes recorded in the SP or SLP speed.

1. In play or still mode, turn the shuttle ring—clockwise for forward or counterclockwise for reverse—to begin searching. The farther you turn the dial, the faster the search speed.
2. Press PLAY/PAUSE to turn off the shuttle feature and return to normal playback.

ADDITIONAL NOTES ON THE SHUTTLE DIAL:

- In the stop mode, turn the shuttle ring more than half way clockwise to start fast forward and turn the shuttle ring more than halfway counterclockwise to start rewind.
- Some noise or streaks in the picture are normal during searching.
- After three minutes in still or slow, the VCR will go into stop mode.

Insert Tape:

Don't forget to insert a recorded tape when using the search features.

OTHER FEATURES

INDEX SEARCH

The VCR has a "VHS Index Search System" that automatically records an index mark on the tape every time you start a recording. During playback you can locate the program you want to play by the number of index marks or by scanning. The VCR will search forward or reverse from the location you are on the tape.

TO SEARCH:

1. Press STOP.
2. Press SEARCH on the remote to display the INDEX SEARCH screen on the TV screen.
3. If you want to search through a certain number of index marks, press two number buttons to enter the number of marks you want to search. Press CLEAR on the remote to correct an entry.
4. Press FORWARD (FWD) to search forward or REVERSE (REV) to search in reverse. The VCR will locate your index mark and begin playback. If you did not enter a specific index number, the VCR will locate the next index mark and begin playback.
5. Press STOP to stop index searching.

Some index marks may be missed by the VCR:

- A mark too close to your location on the tape.
- The mark at the beginning of a recorded segment of five minutes or less.
- The first index mark on the tape when you start at the beginning of the tape.

GO-TO SEARCH

The Go-To Search feature enables the VCR to quickly locate a counter reading anywhere on the tape. When the VCR locates the counter reading, it will begin playback.

1. Press STOP.
2. Press SEARCH on the remote until the GO-TO SEARCH menu appears on the screen.

```
INDEX SEARCH
Press REV or FWD
to begin scanning
OR
enter a specific
index number
--
Press SEARCH to exit
```

```
INDEX SEARCH
Searching for
index number 12...
Press STOP to cancel
```

```
INDEX SEARCH
Searching for
index marks...
Press STOP to cancel
```

```
GO-TO SEARCH
Current tape counter is
2:17:25
Press REV or FWD
to go to --:--:00
Press SEARCH to exit.
```

(Continues on next page)

OTHER FEATURES

(Continued from previous page)

3. Press number buttons to enter the hour(s) and/or minutes of the counter reading you want the VCR to "go to". Press CLEAR on the remote to correct an entry.
4. Press FWD to search forward or REV to search in reverse.
5. Press STOP to stop Go-To searching.

PRO-TECT PLUS™ LOCKING FEATURE

To disable the usage of the VCR, or to protect your timer recordings, you can lock the VCR so that the buttons on the VCR or remote won't work.

- To Lock: Press and hold either the remote control's ON•OFF, VCR1, or VCR2 button (whichever controls your VCR) until LOCK appears in the display. LOCK appears when the feature is activated and if you attempt to turn on the VCR while the feature is on.
- To unlock the feature and turn on the VCR: Press and hold either the remote's ON•OFF, VCR1, or VCR2 button (whichever button your VCR is set to respond to) until LOCK disappears.

TRACKING

Your VCR has automatic tracking which removes the streaks or noise from the picture. Automatic tracking is activated when you insert a tape or turn on the VCR. Occasionally you may need to manually adjust tracking, especially if the tape was recorded on a different VCR. Use the TRACKING buttons to remove the streaks or noise. You can also use tracking when you PAUSE a tape to reduce jittering of the picture.

When you manually adjust the picture, automatic tracking is turned off. To turn automatic tracking back on, eject the tape and reinsert it.

Tracking has no effect during recording—only playback.

```
GO-TO SEARCH
Current tape counter is
2:17:25
Press REV or FWD
to go to 0:00:00
Press SEARCH to exit.
```

Locking Your VCR:

If a timer recording is programmed, make sure your VCR is turned off. Locking your VCR prevents the VCR from being accidentally turned on.

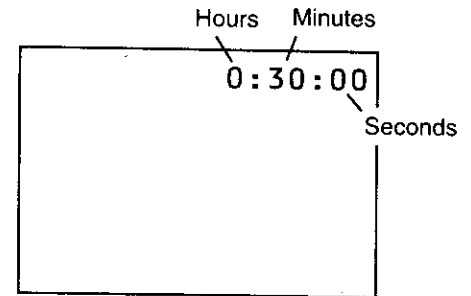
OTHER FEATURES

TIME COUNTER

The time counter shows the actual time it takes to record a program or play back a segment of a recorded tape. It helps locate the beginning or end of programs you taped. The time counter resets to 0:00:00 whenever the tape is ejected from the VCR.

For example, if you record a 30-minute program at the beginning of the tape and you want to go to the end of that program to begin another recording, you would:

1. Press INFO **twice** to display only the time counter.
2. Press CLEAR to reset the time counter to 0:00:00.
3. Press FORWARD (FWD) to forward the tape until the time counter reads 0:30:00.
4. Press STOP. This is the approximate end of the program. (You may want to press PLAY to verify.) Now, you can begin recording at this spot.
5. Press the INFO button to remove the time counter from the screen and return to the normal display mode.

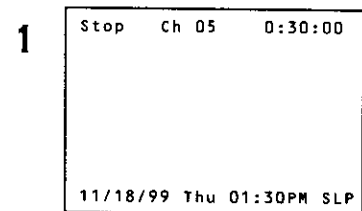


ON-SCREEN DISPLAYS

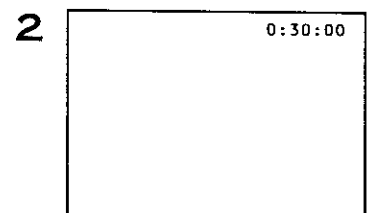
The INFO button shows the status of the VCR (Stop, Play Record, etc.), channel number, time counter, date, time, and tape speed on the TV screen. The date and time must be set before they can be displayed.

1. Press INFO to see the on-screen displays. The current time is displayed in the VCR's display panel.
2. Press INFO again to have only the time counter remain on the screen. The time counter is displayed in the VCR's display panel.
3. Press INFO again to have no displays appear on the TV screen. The time counter remains in the VCR's display panel. This is useful for dubbing tapes.
4. Press INFO again to return to the normal display. The current time is displayed in the VCR's display panel.

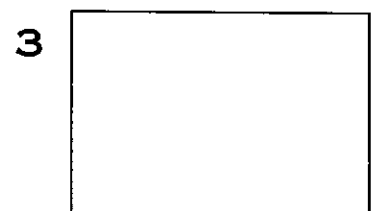
Turning off the VCR also resets the displays.



1 On-screen display (times out)



2 Time counter only (does not time out)



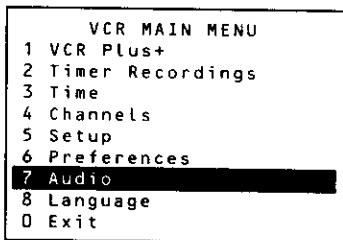
3 No displays will appear (useful for dubbing)

OTHER FEATURES

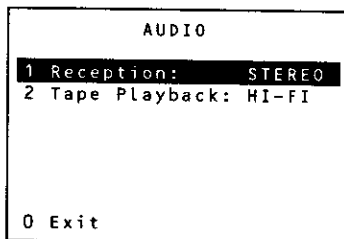
AUDIO SET-UP FEATURES

The audio setup features affect your tape playback and recordings. The features in this section are accessed through the AUDIO menu and are shown in the displays below.

1. Press MENU to bring up the VCR MAIN MENU.



2. Press 7 to display the AUDIO menu.



Now you are ready to select an item from the menu to set up.

RECEPTION

Some TV programs are broadcast with stereo audio or a second audio program (SAP) which offers a second language. The Reception feature lets you select the type of audio you want to record. Press 1 to switch between Reception: STEREO, MONO, and SAP.

- Select STEREO for normal or stereo broadcast TV recording. The STEREO indicator lights when the station you are tuned to is broadcasting stereo.
- Select MONO if the stereo signal is weak and the sound is too noisy.
- Select SAP to record a second audio program instead of the normal audio on both the hi-fi and linear tracks.

TAPE PLAYBACK

The VCR records the same audio on both the Hi-Fi stereo and linear tracks on the tape. Hi-Fi sound is recorded on separate left and right stereo channels. Monaural sound is recorded on the linear track. Press 2 to switch between Tape Playback: HI-FI, LINEAR, and MIX.

To enjoy Hi-Fi sound, connect your VCR to a stereo television or amplifier/receiver using the audio jacks. The Tape Playback feature lets you select which audio you play back.

- Select HI-FI to play back sound recorded on the Hi-Fi tracks and for normal use. The Hi-Fi indicator lights.
- Select LINEAR to play back the sound recorded on the linear monaural track, such as a second audio program (SAP), or a dubbed voice-over.
- Select MIX to play back the sound recorded on both the linear track and the Hi-Fi track, sound-on-sound. The Hi-Fi indicator lights.

CONNECTIONS

THINGS TO KNOW BEFORE CONNECTING COMPONENTS

PROTECT YOUR COMPONENTS FROM POWER SURGES

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the TV and other components before you connect or disconnect any cables.

POSITION CABLES CORRECTLY TO AVOID AUDIO HUM OR INTERFERENCE

- Insert all cable plugs firmly into their jacks.
- Place the audio/video cables to the sides of the TV's back panel instead of straight down the middle after you connect your components.
- Try not to coil any twin-lead cables and keep them away from the audio/video cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your unit.

PROTECT YOUR COMPONENTS FROM OVERHEATING

- Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely.
- Do not stack components.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier or satellite receiver on the top shelf of the stand so heated air rising from it will not flow around other components.

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



VCR BASICS



RECORDING



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7 CONNECTIONS



8 REFERENCE

CONNECTIONS

CONNECTING YOUR VCR

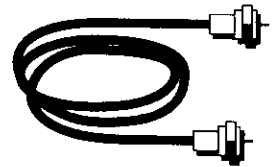
Refer to these pages to help you connect your VCR.

JACKS AND CABLES

RF JACKS AND ANTENNA CABLES (F-TYPE)

The RF jacks provide good picture and mono sound quality, and must be used if audio/video connections are not available for your TV.

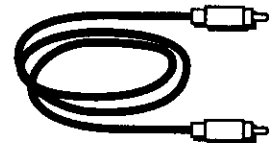
These jacks are required for antenna or cable-TV connections. The RF jacks on the VCR are labeled IN FROM ANT. and OUT TO TV. The antenna cable supplied with your VCR is used to connect the VCR's OUT TO TV jack and your TV's antenna input.



AUDIO/VIDEO JACKS AND CABLES (RCA-TYPE)

The audio/video jacks provide very good picture and sound quality, and can be used if your TV has audio/video input jacks.

These jacks are used for most audio/video connections between components. The VCR audio/video jacks are color coded (yellow for video, red for right audio, and white for left audio). If your TV only has one input for audio (mono), you may need a Y-adaptor to hear sound from both channels.



CHOOSING A VCR CONNECTION

There are several different ways to connect your VCR, depending on whether or not you have cable service, if you have a cable box to see this service, whether some of the cable channels are scrambled, and so on.

Five connections are described in this section and one of them should provide you with a VCR connection that works.

- TV with RF jack only
- TV with audio/video jacks
- TV with audio/video jacks and cable box to unscramble pay channels only
- TV with RF jack and satellite receiver
- TV with audio/video jacks and satellite receiver

If you need to connect additional components not shown in the diagrams here (and are unsure of how to connect them), refer to the instruction manual that came with that particular component.

ADVANTAGES OF AUDIO/VIDEO CABLE CONNECTIONS

Using a simple antenna cable connection gives you good picture quality. If your television has audio/video jacks, it is highly recommended to use them for even better picture quality and stereo sound when recording and playing back videotapes. These connections give you more convenient operation by not having to share the TV's antenna signal.

DON'T FORGET ABOUT THE AUTO TV/VCR FEATURE

The TV/VCR switch controls whether the picture signal is coming from the VCR or the TV.

You can set the Auto TV/VCR feature to ON when using only the IN FROM ANT. and OUT TO TV jacks and OFF when using the AUDIO/VIDEO output jacks—so your TV signal is not interrupted when the VCR is turned on. You can change the setting manually by using the TV•VCR button on the VCR or the ANTENNA button on the remote.

CONNECTIONS

TV WITH RF JACK ONLY

This connection assumes:

- You are connecting antenna, cable, or cable box system.
- Your television has only an RF input jack.

This connection provides:

- Mono sound playback from VCR.
- Record one channel while watching another (except when using a cable box for all channels).

To use this connection, you must have:

- One coaxial cable for cable or antenna connection; two cables for a cable box

To connect:

1. Connect cables as shown.
2. Return to *First Things First*, then follow the steps.

Using This Connection

Tune your TV to channel 3 or 4, whichever one you selected with the CH. 3/4 switch on the back of the VCR.

Auto TV/VCR Setting:

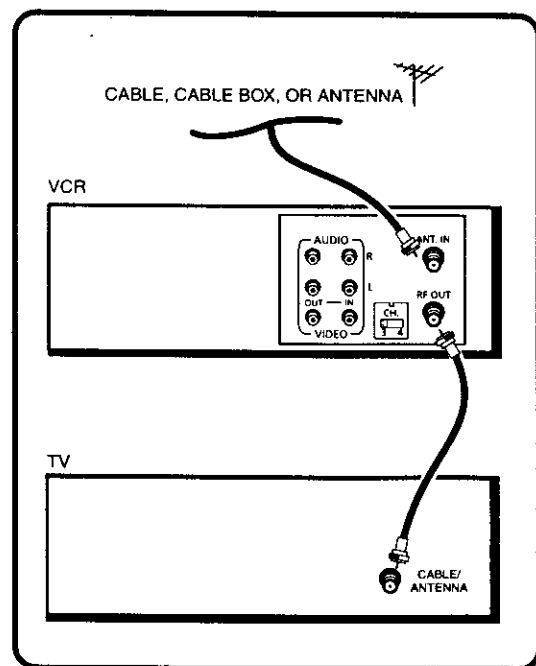
- Set the Auto TV/VCR feature to ON.

To play a tape:

1. Insert a tape.
2. If necessary, press PLAY.

To record one program and watch another:

1. Begin recording a program using one of the recording features.
2. Press the TV•VCR button on the VCR (ANTENNA on remote) and select a different channel on the TV.



CONNECTIONS

TV WITH AUDIO/VIDEO JACKS

This connection assumes:

- You are connecting an antenna, cable, or cable box system.
- Your television has audio/video jacks.

This connection provides:

- Stereo sound playback from VCR.
- Record one channel while watching another (except when using a cable box for all channels).

To use this connection, you must have:

- (1) coaxial cable for cable/antenna connection; (2) for cable box
- (3) audio/video cables

To connect:

1. Connect cables as shown.
2. Return to *First Things First*, then follow the steps.

Using This Connection

Tune your TV to its video input channel. Use of TV•VCR button on the VCR (ANTENNA on remote) is not required.

Auto TV/VCR Setting:

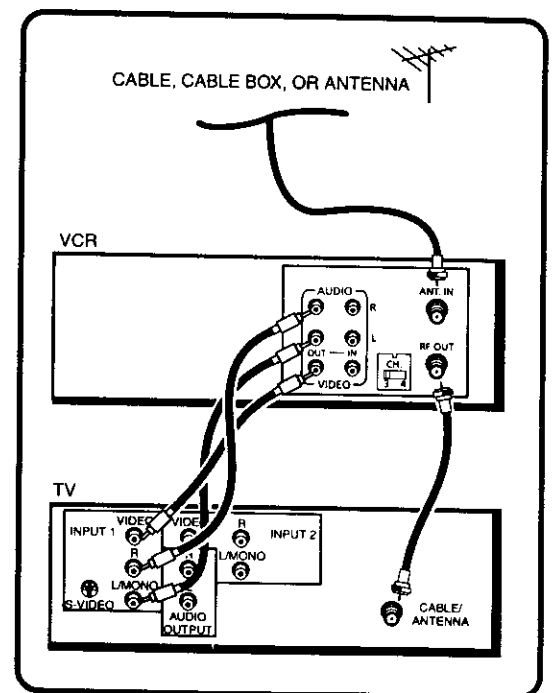
- Set the Auto TV/VCR feature to OFF.

To play a tape:

1. Insert a tape.
2. If necessary, press PLAY.

To record one program and watch another:

1. Begin recording a program using one of the recording features.
2. Select a different channel on the TV.



CONNECTIONS

TV WITH AUDIO/VIDEO JACKS AND CABLE BOX TO UNSCRAMBLE PAY CHANNELS ONLY

This connection assumes:

- You are using a cable box only to unscramble premium channels.
- Your TV has audio/video input jacks.

This connection provides:

- Stereo sound playback from VCR.
- Recording a scrambled or unscrambled channel through the cable box while watching an unscrambled channel.

To use this connection, you must have:

- (3) coaxial cables
- (3) audio/video cables
- (1) splitter

To connect:

1. Connect cables as shown.
2. Return to *First Things First*, then follow the steps.

Using This Connection

Tune your TV to its video input channel. Use of TV•VCR button on the VCR (ANTENNA on remote) is not required.

Auto TV/VCR Setting:

- Set the Auto TV/VCR feature to OFF.

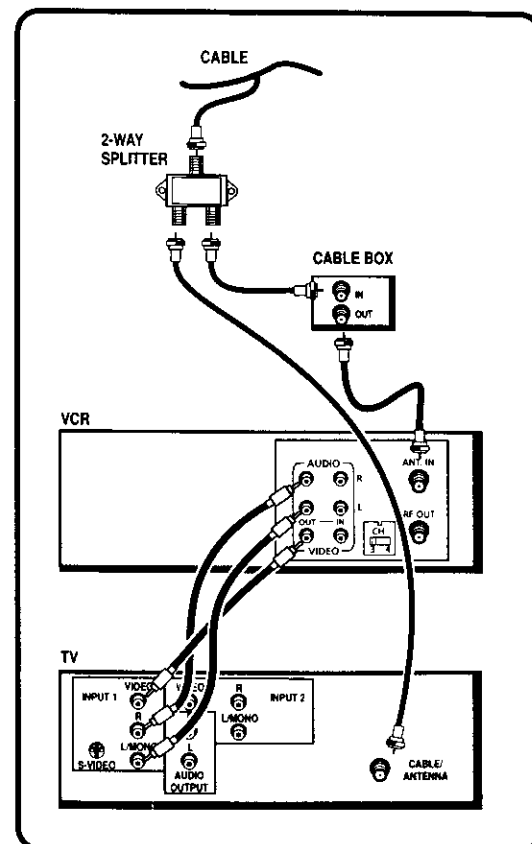
To play a tape:

1. Insert a tape.
2. If necessary, press PLAY.

To record a scrambled or unscrambled program and watch another unscrambled program:

1. Begin recording a scrambled or unscrambled program through the cable box using one of the recording features.
2. Select an unscrambled channel on the TV.

All scrambled channels must be viewed through the VCR.
For Cable Box Setup, select ALL channels (see *Setting Up the VCR*).



CONNECTIONS

TV WITH RF JACK AND DIGITAL SATELLITE RECEIVER

This connection assumes:

- You have a basic digital satellite system and your TV does not have audio/video input jacks.

This connection provides:

- Mono sound playback from VCR, recording from a satellite receiver, and recording one off-air or cable channel while watching another.

To use this connection, you must have:

- (4) coaxial cables and (3) audio/video cables

To connect:

1. Connect cables as shown.
2. Return to the *First Things First Section*, then follow the steps.

Using This Connection

- Tune your TV to channel 3 or 4, whichever one you selected with the CH. 3/4 switch on the back of the VCR.
- To record and watch off-air or cable, tune your VCR to channel 3 or 4 whichever one you selected with the CH3/CH4 switch on the back of the receiver. Turn off receiver.
- To watch and/or record from the digital satellite receiver, tune your VCR to its line input (L1 if you have connected the receiver to the back jacks or L2 for the front jacks).

Auto TV/VCR Setting:

- Set the Auto TV/VCR feature to ON.

To play a tape:

1. Insert a tape.
2. If necessary, press PLAY.

To record one off-air or cable program and watch another

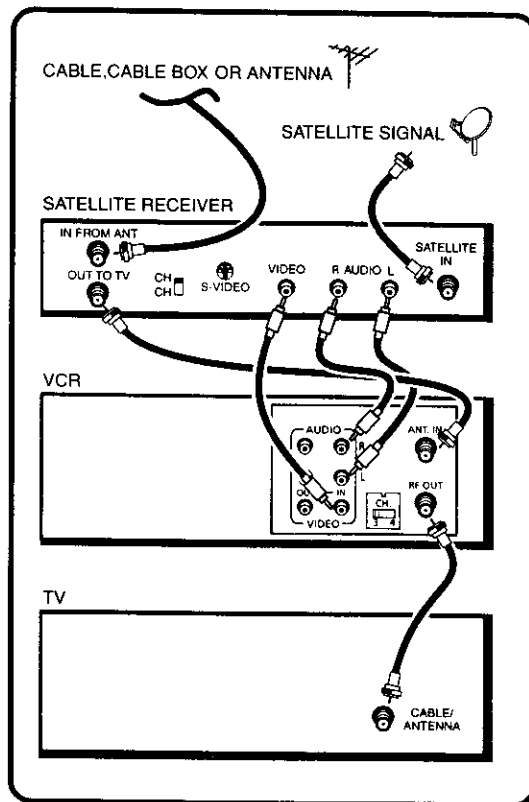
1. Turn off the digital satellite receiver and begin recording a program using a recording feature.
2. Press TV•VCR on the VCR (ANTENNA on remote) and select a different channel on the TV.

To record a digital satellite receiver program

1. Turn on the receiver, tune the VCR to its line input, and begin recording a program using a recording feature.

Caution

The unauthorized recording of satellite broadcasts, television programs, or other copyrighted materials may infringe the rights of others.



CONNECTIONS

TV WITH AUDIO/VIDEO JACKS AND DIGITAL SATELLITE RECEIVER

This connection assumes:

- You have an advanced digital satellite system and your TV has audio/video input jacks.

This connection provides:

- Stereo sound playback from VCR, recording from receiver while watching cable or off-air channel, and recording one cable or off-air channel while watching another.

To use this connection, you must have:

- (3) coaxial cables and (6) audio/video cables

To connect:

- Connect cables as shown.
- Return to the *First Things First Section*, then follow the steps.

Using This Connection

- Tune your TV to its video input to record (or watch) the VCR or satellite receiver.
- To record from the digital satellite receiver, tune your VCR to its line input (L1 if you have connected the receiver to the back jacks or L2 for the front jacks).

Auto TV/VCR Setting:

- Set the Auto TV/VCR feature to OFF. Use of TV•VCR button on the VCR (ANTENNA on remote) is not required.

To play a tape:

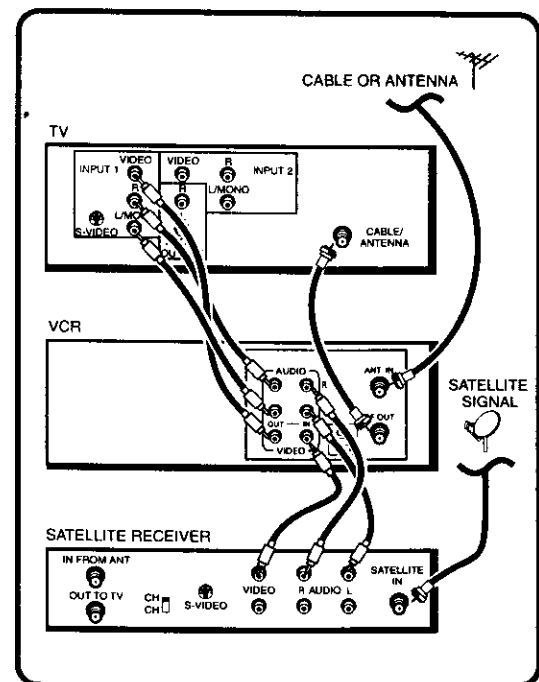
- Insert a tape.
- If necessary, press PLAY.

To record one off-air or cable program and watch another:

- Begin recording a program using a recording feature.
- Select a different channel on the TV.

To record a digital satellite receiver program and watch a cable or off-air channel:

- Turn on the receiver, tune the VCR to its line input, and begin recording a program using a recording feature.
- Select a different channel on the TV.



REFERENCE

This section gives you some additional information about the VCR, including a description of the unit's controls and displays.

You will also find the section, *Troubleshooting Tips*, and a question and answer section about **Commercial Advance** in this Appendix. These areas might help resolve some of those simple problems.

Finally, this section of the manual also contains your warranty information.

1 FIRST THINGS FIRST



2 SETTING UP THE VCR



3 VCR BASICS



4 RECORDING



5 PROGRAM THE REMOTE



6 OTHER FEATURES

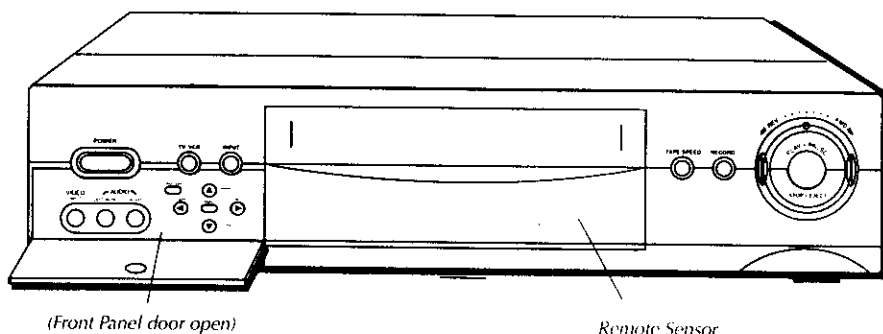


7 CONNECTIONS



8 REFERENCE

FRONT PANEL



AUDIO (R and L MONO) and VIDEO In Jacks Receives signals from another component like a VCR or camcorder when it is connected to these jacks. Use INPUT to select L2 to record from these jacks.

CHANNEL•TRACKING and Up ▲ and Down ▼ Selects next higher or lower channel in the VCR's channel memory. Adjusts tracking when a tape is playing. Used for program express and moving through menu system.

CLEAR and Left ◀ Resets time counter to 0:00:00. Allows you to change entries when setting the clock or programming the timer. Used for program express and navigating through the menu system.

FWD Forwards the tape when the VCR is stopped. Searches the picture forward during playback. Starts slow motion during play-pause and increases slow-motion speed.

INFO and Right ▶ Displays information on the TV screen. Used for program express and navigating through the menu system.

INPUT Selects between the line inputs and VCR's tuner. Line input refers to the signal coming from the component connected to the audio/video input jacks on the back or front of the VCR.

MENU Displays and accesses VCR's menu system on the TV screen.

PLAY/PAUSE Plays a tape. Pauses action for viewing during playback. Pauses recording to prevent recording of unwanted scenes.

PROG. EXP. Used for program express.

POWER Turns the VCR on or off.

RECORD Starts VCR recording. Used for express recording.

Remote Sensor Receives signals from the remote control. Aim the remote at this sensor.

REV Rewinds the tape when the VCR is stopped. Searches the picture in reverse during playback. Starts slow motion during play-pause and decreases slow-motion speed.

Shuttle Ring Turn clockwise to search forward or counterclockwise to search in reverse. Turn farther (over halfway) clockwise to fast forward or farther counterclockwise to rewind.

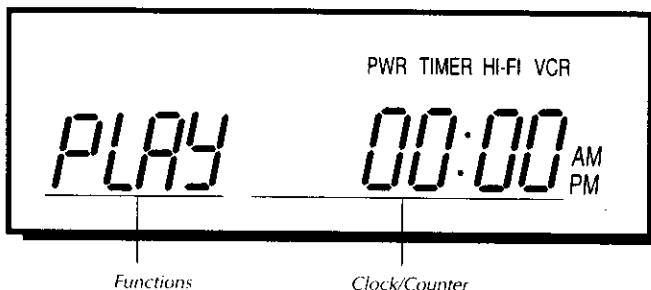
STOP • EJECT Stops the normal functions such as record, playback, rewind, fast-forward, or pause. Also ejects a stopped tape if pressed and held for a few seconds.

TAPE SPEED Selects a recording speed (either SP or SLP).

TV•VCR Switches the picture signal so that it either comes from the VCR or the TV cable/antenna signal.

REFERENCE

DISPLAY PANEL



Clock/Counter Displays current time, time counter, tape speed, or channel numbers when switching channels.

FUNCTION DISPLAYS:

BYE Power off

CLOCK, TIMER, CHAN, START, END, DATE, SAVE, SAVED, RVIEW, CANCEL, 0-LAP Appear during Express Recording.

DOWN & LOAD Front display alternates between these two words when AllSet data is being downloaded.

EJECT Displays when a videocassette is being ejected.

FFWD Fast forward

HELLO Power on

LOCK Appears for Pro-Tect Plus™ locking feature

MARK COM Appears when the Commercial Advance feature is forwarding through commercials.

PLAY Tape is in playback mode.

REC Displays when the VCR is recording.

REC-P Paused recording.

REW Rewind

SRCH+ Forward picture search

SRCH- Reverse picture search

STILL Playback is paused; still-frame displayed

SLOW Tape playing back in slow motion

STOP Tape is in stop mode

T-REC Timer recording in progress

X-REC Express recording in progress

Hi-Fi Indicator Lights when HI-FI or MIX is selected in the audio menu.

PWR Displays when the VCR is powered on.

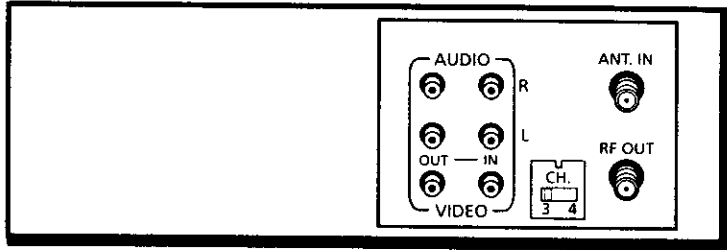
TIMER indicator Displayed when Express Recording (XPR) or timer recording is under way or when the VCR is set for a timer recording and the power is turned OFF. "TIMER" flashes on the VCR front panel when a timer recording is set and no tape is inserted in the VCR.

VCR Indicator (Applies only if the VCR Viewing Channel is 3 or 4). Press the TV•VCR on the VCR (ANTENNA on remote) to turn on or off.

- VCR indicator on: Picture from VCR.
- VCR indicator off: Picture from TV channel.

REFERENCE

BACK PANEL



CH. 3/4 switch Determines the channel to which the TV must be tuned in order to see the VCR's picture. Not used when connecting the VCR to the TV using Audio/Video cables.

AUDIO (R and L/MONO) and VIDEO IN jacks Receives signals from another component, such as a VCR or camcorder, when connected to these jacks. Use the INPUT button on the VCR or remote control to select the video line input (L1) and record from these jacks.

AUDIO (R and L) and VIDEO OUT jacks Sends signals from the VCR to another component, like a TV or VCR, when the other component is connected to these jacks.

IN FROM ANT. jack Receives a signal from an antenna or cable system when the VCR is attached with RF cables.

OUT TO TV jack Passes signal to TV using the supplied RF cable.

QUESTIONS AND ANSWERS ABOUT THE COMMERCIAL ADVANCE FEATURE

WILL COMMERCIALS BE SCANNED THROUGH ONLY ON PLAYBACK OF RECORDINGS?

Yes. The VCR does not rewind and mark commercial segments until after recording is finished.

HOW FAST DOES A COMMERCIAL ADVANCE VCR SCAN THROUGH COMMERCIALS?

In SLP tape speed, a 3-minute commercial break is scanned through in approximately 8-12 seconds. In SP, it takes about 25-35 seconds.

ARE COMMERCIALS STILL RECORDED IF I WANT TO WATCH THEM?

Yes. The recorded program, including commercials, can be viewed by setting the Playback feature to MANUAL.

WHAT IF THE VCR SCANS FORWARD THROUGH PART OF MY PROGRAM?

To start skipping override, while the VCR is skipping press PLAY on the VCR or remote control. Then, press rewind to go back to a point before the skipping started and press PLAY on the VCR or remote control. Automatic skipping will start again once Commercial Advance detects the segment is over.

ONCE A RECORDING HAS BEEN MARKED, DOES THE COMMERCIAL ADVANCE FEATURE WORK EACH TIME THE TAPE IS PLAYED?

Yes. If the Playback feature is set to AUTO, the marked commercials should be skipped each time the tape is played in a COMMERCIAL ADVANCE VCR.

AFTER MARKING COMMERCIALS, IS THE TAPE LEFT AT THE BEGINNING OR END OF THE RECORDING?

The tape is left at the end of the recording so it is in position to begin additional programmed recordings.

DOES THE MARKING PROCESS INTERFERE WITH OTHER PROGRAMMED RECORDINGS?

No. If two or more recordings are programmed together without sufficient time to mark the first recording, marking will take place after all recordings are completed.

WHAT HAPPENS IF THE MARKING PROCESS IS INTERRUPTED?

Marking can be interrupted to allow use of the VCR. Marking will resume again when the VCR's power is turned off as long as the tape has not been ejected from the VCR.

DOES THIS FEATURE WORK IN ALL RECORDING SPEEDS?

Yes, COMMERCIAL ADVANCE works in SP and SLP.

WILL COMMERCIAL ADVANCE MARKED RECORDINGS WORK IN NON-COMMERCIAL ADVANCE VCRS?

A recording marked with the Commercial Advance feature will play in a VCR that doesn't offer this feature, but commercials will not be automatically skipped.

TROUBLESHOOTING TIPS

NO POWER

- Check to make sure it is plugged into an operating outlet.
- Check to make sure your connections are correct.

VCR DOES NOT RESPOND TO REMOTE

- Press VCR1 (VCR2) to set remote to control the VCR.
- Check to make sure there are no objects between the VCR and remote.
- The batteries may need changing.
- Make sure to press the VCR1 or VCR2 button on the remote to operate the VCR—whichever one corresponds to the Remote VCR1/VCR2 setting.
- Remove batteries for at least one minute, then replace them. This resets the remote, so it may require reprogramming.

REMOTE NO LONGER CONTROLS A PROSCAN, RCA, OR GE TV

- Press TV to set remote to control a compatible TV.
- Check to make sure the remote is programmed to control an ProScan, RCA, or GE TV.

POOR OR NO PICTURE FOR NORMAL TV VIEWING

- Check to make sure the VCR indicator is off.
- Check to make sure the TV is switched to an active channel.
- Check to make sure the antenna connections are secure and correct.

NOISY OR NO PICTURE DURING PLAYBACK

- Press TV•VCR on VCR (ANTENNA on remote) to turn VCR indicator on.
- Check TV channel selected (3 or 4) to make sure it matches the channel selected with CH. 3/4 switch on back of VCR.
- Check to make sure the TV's fine tuning is correct for the channel you have selected.
- Check video cable connections between VCR and TV monitor.
- Check to make sure the TV monitor is set to video input.
- Try another tape.
- Some noise/streaks are normal during search, stop action, frame advance, and slow-motion playback.

STREAKS IN PICTURE DURING NORMAL PLAYBACK

- Press one of the TRACKING buttons to move streaks up or down for the best picture.
- Check to make sure the tape is of good quality and not worn out.

TIME COUNTER NOT WORKING OR TIME COUNTER NOT WORKING IN SEARCH MODES

- The time counter does not advance during unrecorded portions of tape. When an unrecorded segment of tape is encountered, the time counter will hold its count until recorded material is detected again.
- A minus (-) will appear in front of the time if you rewind the tape farther back than a counter reading of 0:00:00.

REFERENCE

WILL NOT RECORD OR PLAY

- Check to make sure there is a tape in the VCR.
- Try ejecting and reinserting the cassette.
- Check to make sure the tape is not broken.
- Check to make sure the VCR is not in pause mode. Press PAUSE or PLAY to return to normal playback.
- Check the Pro-Tect Plus™ feature.

WILL NOT RECORD

- Check to make sure the safety tab is intact.

REWIND DOES NOT OPERATE

- Check to make sure the tape is not already rewound.

VCR PLUS+ OR TIMER RECORDING NOT MADE OR WRONG PROGRAM RECORDED

- Check to make sure the correct VCR Plus+ code is entered.
- Check to make sure the cable box or satellite receiver was turned on when recording was to begin.
- Check to make sure the program was entered correctly (wrong channel or times).
- Power interruption. Reset the clock.
- Check to see if time and date are correct—including AM/PM.
- Check to make sure the program did not exceed the tape's length or the tape was not rewound beforehand.
- Check to make sure the VCR was turned off at the time recording was to start.
- Check to make sure there was a tape in the VCR and the cassette's safety tab was intact.
- VCR ejects cassette when the end of the tape is reached during a timer recording.
- Check to make sure VCR Plus+ setup was completed correctly.

CLOCK SHOWS INCORRECT TIME OR DATE

- Power interruption. Automatic clock set was not turned on or did not work properly. Check time zone and daylight-savings settings.
- Make sure VCR or cable box is tuned to channel carrying XDS information.
- Auto clock set is not supported by digital satellite receivers. Set the clock manually.

TIME DID NOT ADJUST FOR DAYLIGHT-SAVING TIME

- Check to make sure daylight-saving feature is set correctly.

VCR MAKES NOISE WHEN STOPPED

- VCR is removing tape from heads. This is normal. The head cylinder inside the VCR will continue to rotate for a few minutes after you put the VCR in the stop mode.

WILL NOT AUTO CHANNEL SEARCH ACTIVE CHANNELS CORRECTLY

- Check to make sure the antenna connections are secure and correct.
- Check to make sure the Signal Type: CABLE/ANTENNA feature is set correctly.
- If Detect Automatically was selected for the Signal Type in the AUTO CHANNEL SEARCH menu, try using either CABLE TV or ANTENNA instead.
- May not be necessary if using a cable box for all channels. Contact your local cable company for more information.

REFERENCE

TAPE PLAYS BACK IN SLOW MOTION

- Press PLAY to return to normal playback.

CASSETTE WITH SAFETY TAB REMOVED DOES NOT START TO PLAY AUTOMATICALLY

- Check to make sure the Auto Play ON/OFF feature is set to ON.

TIMER OR TAPE INDICATOR FLASHES

- Check to make sure there is a cassette in the VCR when a timer recording is set.

TIME COUNTER DISAPPEARS DURING SEARCHING

- This is normal.

ON-SCREEN MENUS APPEAR IN A FOREIGN LANGUAGE

- Check LANGUAGE feature to choose desired on-screen language.

NO STEREO SOUND DURING PLAYBACK

- Check to make sure the Tape Playback feature is set to HI-FI to hear stereo sound during playback.
- Must use the AUDIO/VIDEO jacks on the back of the VCR to hear stereo sound.

STEREO AUDIO TOO NOISY

- Stereo signal is weak. Set Reception: STEREO/SAP/MONO feature to MONO.
- Press one of the TRACKING up or down buttons to minimize the noise.

INDEX AND ZERO SEARCH FEATURES DO NOT OPERATE

- Check to see if MOVIE ADVANCE feature is activated.

CANNOT ACCESS MOVIE ADVANCE FEATURE

- The video cassette must have the safety tab removed and the recording must be in SP speed.
- Home recording was selected for the tape type in the on-screen display. Eject cassette and reinsert.

VCR FORWARDS THROUGH COMMERCIALS OR MOMENTARILY DISPLAYS A BLUE SCREEN DURING PLAYBACK

- Commercial Advance feature is set to AUTO. Set it to MANUAL.

COMMERCIAL ADVANCE FEATURE DOES NOT MARK COMMERCIALS WHEN:

- The marking feature is set to OFF in the commercial advance menu. Set it to ON.
- A recording is less than 15 minutes or the commercial is longer than one minute.
- A single isolated commercial can not be marked.
- Recording started in the middle of a commercial segment.
- A commercial group within the first or last two minutes of a recording.
- Accuracy and effectiveness can vary depending on the program content and the characteristics of the commercials.
- A commercial is between 30-and 45 seconds and 45-and 60 seconds.
- Effectiveness may vary when local television stations insert their own commercials.

COMMERCIALS RECORDED EVEN THOUGH COMMERCIAL ADVANCE FEATURE WAS SET TO ON.

- Commercial advance is designed to record the commercials, mark them, and then skip over them during playback.

REFERENCE

HOW TO FIND YOUR TV'S VIDEO INPUT CHANNEL

You need to tune your TV to the Video Input Channel if you are using the VCR's AUDIO/VIDEO OUT jacks to connect to the TV's AUDIO/VIDEO INPUT jacks. You must select this "channel" before you can see the VCR's menus, the cable or antenna reception, and the content that's on a tape.

The Video Channel on TVs varies for different brands and different models. Below are some steps to try:

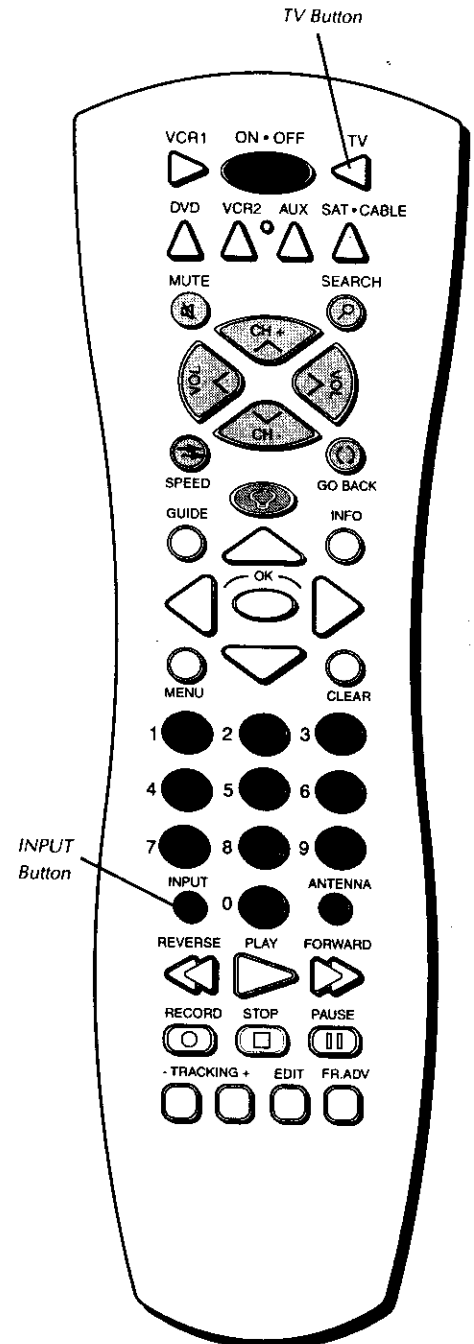
- If your TV brand is RCA, GE, or PROSCAN, press the TV button on the remote control that came with the VCR. Then press the INPUT button on the remote.
- If you have another brand of TV, consult the section, Programming The Remote, to see if the VCR's remote control can be set to control your TV. If so, follow the step above.

If those options do not work, try the following ideas. You might access the Video Input Channel by:

- pressing a button on the remote (see table below)
- selecting the channel from the TV's menu system (see table below)
- tuning directly to the channel by selecting a specific channel number (see table below)
- going through all the channels in the channel list by pressing the channel up or down buttons on the TV.

Some common scenarios are listed in the Video Input Channel Variations table that follows:

Video Input Channel Variations		
Button/Switch on the TV	Button on the TV Remote	Channel Number
VIDEO	VID 1	00
SIGNAL	LINE	90
VID 1	VID	91
VID 2	VIDEO	92
S-VID	S-VID	93
S-VIDEO	INPUT	VID 1
	S-VIDEO	VID 2
	SOURCE	
	AUX	



REFERENCE

SPECIFICATIONS

Format:	VHS
Record/Playback System:	Video: 4-head Audio: VHS Hi-Fi record/playback system
Video Signal System:	EIA standard: NTSC color
Antenna:	75-ohm external VHF/UHF combined antenna terminal
Tuner:	USA: 181 channels capability* (125 cable channels) Canada: 178 channels capability* (122 cable channels)
Type:	AutoProgramming frequency synthesis
Power Requirement:	120V AC, 60 Hz
Power Consumption:	17 watts (standby < 3.3 watts)
Dimensions:	3.7 inches high (94 mm) 17 inches wide (432 mm) 9.57 inches deep (243 mm)
Weight:	7.1 pounds (3.2 kg)
Other:	Automatic head cleaner
Storage Temperature Range:	- 22°F to +149°F (-30°C to +65°C)
Operating Temperature Range:	+41°F to +104°F (+5°C to +40°C)

*Check your cable company's compatibility requirements.

CLEANING THE VCR

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your VCR. Remove dust from the ventilation holes on the top, back, sides, and bottom of the cabinet.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

Specifications are subject to change without notice.

LIMITED WARRANTY

What your warranty covers:

Any defect in materials or workmanship.

For how long after your purchase:

- 6 months for labor charges.
- One year for parts.

The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

What we will do:

- Pay any Authorized ProScan VCR Service Center the labor charges to repair your VCR.
- Pay any Authorized ProScan VCR Service Center for the new or, at our option, refurbished replacement parts required to repair your VCR.

How you get service:

- Take your VCR to any Authorized ProScan VCR Service Center. To identify your nearest Authorized ProScan VCR Service Center, ask your dealer, look in the Yellow Pages, or call 1-800-PROSCAN.
- Show the Authorized Service Center Representative your evidence of purchase date or first rental.
- Pick up your VCR when repairs are completed.

What your warranty does not cover:

- Customer instruction. (Your Owner's Manual clearly describes how to install, adjust, and operate your VCR. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Signal reception problems not caused by your VCR.
- Damage from misuse or neglect.
- Cleaning of video/audio heads.
- Batteries.
- A VCR that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- A VCR purchased or serviced outside the U.S.A.
- Acts of God, such as but not limited to lightning damage.

Product Registration:

- Please complete and mail the Product Registration Card packed with your VCR. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

How State Law relates to warranty:

- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your VCR unit outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

Service calls that do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

GLOSSARY

- AutoEdit** Lets you control two VCRs simultaneously with a single remote. Useful when making a copy of a video tape.
- A/V Cables & Jacks** Commonly called "RCA-type" cables. Improves picture and sound quality. Required for stereo audio.
- Code Search** Simplifies programming the remote control by not requiring you to identify and enter a code to operate a component.
- Commercial Advance** Lets you skip commercials during video tape playback.
- EnergySaver** Automatically turns the VCR off after a (user definable) period of inactivity, cutting energy consumption.
- Express Recording (XPR)** A method of timer recording that lets you tape the remaining portion of a program.
- Movie Advance** Helps you locate certain parts of prerecorded movies (rented or purchased).
- Program Express** Lets you quickly program a timer recording using the VCR's front panel buttons instead of the on-screen menu.
- Pro-Tect Plus™** Allows you to "lock" the VCR so that the front panel and remote control buttons don't work. Useful for protecting timer recordings.
- QuickSet Guide** An interactive, menu-based guide which helps you set up a number of your VCR's features. Also accessible through the main on-screen menu.
- SAP (Second Audio Program)** A second sound track that may be included with a stereo broadcast. Usually used for foreign language dubs of programs.
- Shuttle Ring** A control on the VCR's front panel that allows variable-speed control of picture search.
- VCR Channels List** A "list" of channels you want the VCR to be able to tune when using the CH+/- buttons.
- VCR Plus+** Simplifies timer recording by entering a PlusCode Programming Number from an available TV listing.
- XPR** See *Express Recording*.

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PROSCAN

An RCA Entertainment Product

If your VCR needs service, please contact your dealer or the nearest Service Center from the yellow pages. Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

 **THOMSON CONSUMER ELECTRONICS**
10330 North Meridian Street
Indianapolis, IN 46290

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Printed in the U.S.A.

TOCOM 15530170

MODEL #:

PSVR85

15530170



As an ENERGY STAR® Partner, Thomson Consumer Electronics has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.