

M 53 06 476

**VR2106  
VR4106  
VR4206HF**

**VHS** Video Cassette Recorder  
High Quality (HQ) Circuitry  
Operating Guide & Warranty



THE QUALITY GOES IN BEFORE THE NAME GOES ON<sup>®</sup>

¡Aviso para nuestros  
clientes de habla hispana:  
consulte la información que  
aparece al final de este manual!





## WARNING

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



**WARNING:** TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL. TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### Safety Tips

Refer to the "Safety Tips" section of this operating guide for important safety considerations.

### Note to Cable TV System Installer

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

### Power-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other.) This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug by altering it in any way.

### 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.

### Regulatory Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

"Ce appareil numérique de la class b respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada."

# SAFETY TIPS

## **Important safeguards for you and your new product**

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this section of the operating guide can help you get many years of enjoyment and safe operation that are built into your new product.

### **1. Read Instructions**

All the safety and operating instructions should be read before the product is operated.

### **2. Follow Instructions**

All operating and use instructions should be followed.

### **3. Retain Instructions**

The safety and operating instructions should be retained for future reference.

### **4. Heed Warnings**

All warnings on the product and in the operating instructions should be adhered to.

### **5. Cleaning**

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

### **6. Water and Moisture**

Do not use this product near water — for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

### **7. Accessories**

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

### **8. Transporting Product**

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

### **9. Attachments**

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

### **10. Ventilation**

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

### **11. Power Sources**

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

### **12. Line-Cord Polarization**

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

### **13. Power-Cord Protection**

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



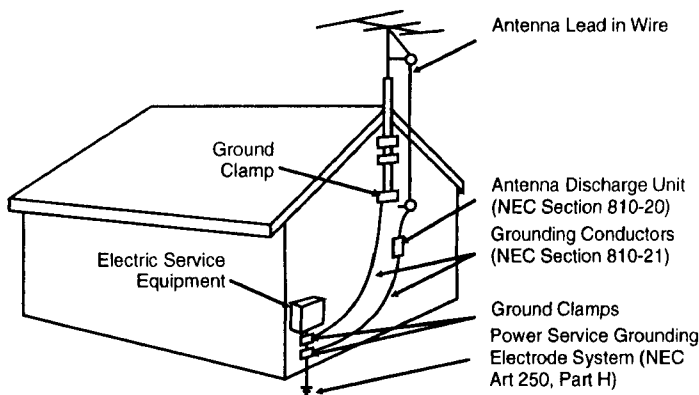
PORTABLE CART WARNING

# SAFETY TIPS

## 14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### EXAMPLE OF GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS



NEC - NATIONAL ELECTRICAL CODE

## 15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

## 16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

## 17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

## 18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

## 19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

## 20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance.

## 21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

## 22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## 23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

## 24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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# GENERAL INFORMATION

## Introduction

Welcome into the family of Zenith Video Cassette Recorder owners. This guide provides instructions on how to operate your new VCR. It includes a section containing Safety Tips. We urge you to read this publication carefully so that you will receive full enjoyment from your new Zenith VCR for many years to come.

Your VCR has been designed and built to give you the very best in quality, features and performance. There are thousands of Zenith authorized video recorder service centers throughout the U.S., Canada and Mexico who can attend promptly and effectively to ordinary service needs.

If you should have an unusual performance or service problem that cannot be satisfactorily resolved by your Zenith authorized video recorder service center, contact us at:

### Zenith Electronics Corporation

Customer Service Department

1000 Milwaukee Avenue

Glenview, Illinois 60025-2493

Telephone: (847) 391-8752

Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time

Send the model number, serial number, and date of purchase or original installation, with a full explanation of the problem and the service history. We will welcome the opportunity to look into your specific question or problem and to be of assistance in resolving it promptly.

The model and serial numbers of your new VCR are located on the VCR cabinet. For your future convenience and protection, we suggest that you record these numbers here:

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

## Installation Considerations

Before you install your VCR...



**Ventilation** — Proper ventilation keeps your VCR running cool. Air circulates through perforations in the back and bottom of the cabinet. Do not block these vents or you will shorten the life of your VCR.



**Power Source** — Your VCR is designed to operate on normal household current, 120 volt 60 Hertz AC. Do not attempt to operate it on DC current.



**Power Cord** — Your VCR power cord has a polarized plug as required by Underwriters' Laboratories. It has one regular blade and one wide blade and fits only one way into a standard electrical outlet. If the blades will not enter either way,

your outlet is very old and non-standard. A new outlet should be installed by a qualified electrician.



**Safe Operation** — Your VCR is manufactured and tested with your safety in mind. However, unusual stress caused by dropping or mishandling, exposure to flood, fire, rain or moisture, or accidental spilling of liquids into the VCR, can result in

potential electrical shock or fire hazards. If this happens, have your VCR checked by a service technician before using it again.

**Please read and observe each safety point in the "Safety Tips" section of this operating guide when installing and using your VCR.**

- **Plugging in Your VCR** — Be sure to plug your VCR into an "unswitched" AC power source. The "switched" AC outlets found on some video equipment will not continue supplying power to the VCR once the equipment is turned off. If the power to the VCR is interrupted for an extended time, you will have to reset the clock in the VCR.
- Keep the video recorder and video cassette away from strong magnetic fields.
- Use only Zenith approved and recommended accessory units with your Zenith video recorder to avoid potential hazards.
- Save the shipping carton and packing material. They will come in handy if you ever have to ship your video recorder. For maximum protection, re-pack the video recorder as it was originally shipped from the factory.

Moisture condensation is apt to occur under the following conditions:

- When the video recorder is moved from a cold place to a warm place.
- Under extremely humid conditions.

In locations where moisture condensation may occur:

- Keep the power cord plugged into an AC outlet and the POWER switch set to ON. This will help prevent condensation from occurring.
- When condensation has occurred, it will not evaporate quickly once the power is switched on. Wait a few hours for the video recorder to become dry before using the video recorder.

## VCR FEATURES CHART

| FEATURES                                       | VR2106                      | VR4106                      | VR4206HF                             |
|--|-----------------------------|-----------------------------|--------------------------------------|
| 2-Heads  | X                           | N/A                         | N/A                                  |
| 4-Heads (Special Video Effects)                | N/A                         | X                           | X                                    |
| Full Load/Quick Start                          | X                           | X                           | X                                    |
| Auto Head Cleaner                              | X                           | X                           | X                                    |
| Audio System                                   | Monaural<br>(No Audio Menu) | Monaural<br>(No Audio Menu) | MTS Hi-Fi Stereo<br>(Has Audio Menu) |
| Audio/Video (A/V) Jacks                        | Monaural                    | Monaural                    | Stereo                               |
| Remote Control SC2105                          | X                           | X                           | X                                    |
| Auto/Manual Band Select                        | X                           | X                           | X                                    |
| Auto/Manual Channel Search                     | X                           | X                           | X                                    |
| Channel Capability (CATV & TV)                 | 181                         | 181                         | 181                                  |
| Record Speeds SP/EP                            | X                           | X                           | X                                    |
| Playback Speeds SP/LP/EP                       | X                           | X                           | X                                    |
| Auto Playback System                           | X                           | X                           | X                                    |
| Auto/Manual Digital Tracking                   | X                           | X                           | X                                    |
| Instant Recording                              | X                           | X                           | X                                    |
| Timer-Controlled Recording                     | X                           | X                           | X                                    |
| Auto Tape Speed Adjust                         | X                           | X                           | X                                    |
| Forward/Reverse Slow-Motion Video (4-head VCR) | N/A                         | X<br>Variable 1/6 to 1/32   | X<br>Variable 1/6 to 1/32            |
| Pause/Still Video                              | Noise                       | Clear                       | Clear                                |
| Real-Time Tape Counter                         | X                           | X                           | X                                    |
| Index Search                                   | X                           | X                           | X                                    |
| Speed Search                                   | X                           | X                           | X                                    |
| Jet Search                                     | X                           | X                           | X                                    |
| English/Spanish/French Menus                   | X                           | X                           | X                                    |
| 1-Year, 8-Event Timer                          | X                           | X                           | X                                    |
| LED Front Panel Indicators                     | X                           | X                           | X                                    |
| Auto Daylight Savings Time                     | X                           | X                           | X                                    |
| Hook-up Cable (VCR to TV)                      | X                           | X                           | X                                    |

1. Model VR4206HF is used for the description, operation, and details provided in this operating guide.

2. VCR design and specifications are subject to change without prior notice.

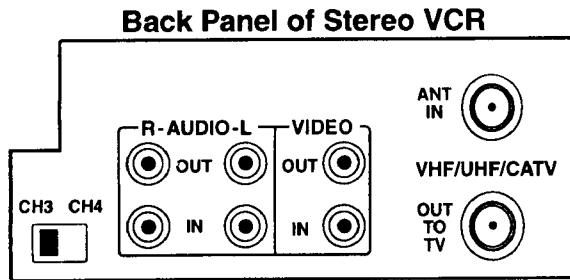
X = Feature is provided    N/A = Feature is Not Available

# BEFORE YOU OPERATE YOUR VCR

This VCR is "menu" operated. In other words, features and characteristics of the VCR are adjusted by selecting options on "menus" that appear on the TV screen. Therefore, you should carefully review the menus in this operating guide. In particular, see the "VCR Menu Operations" section for information on how to access the menus and select an item on the menu.

## 1. Make Equipment Connections

**(Required)** Typical connections for your VCR are provided in the "Connections for Your VCR" section of this operating guide. Determine your video system needs, then make the connections shown on the applicable diagrams.

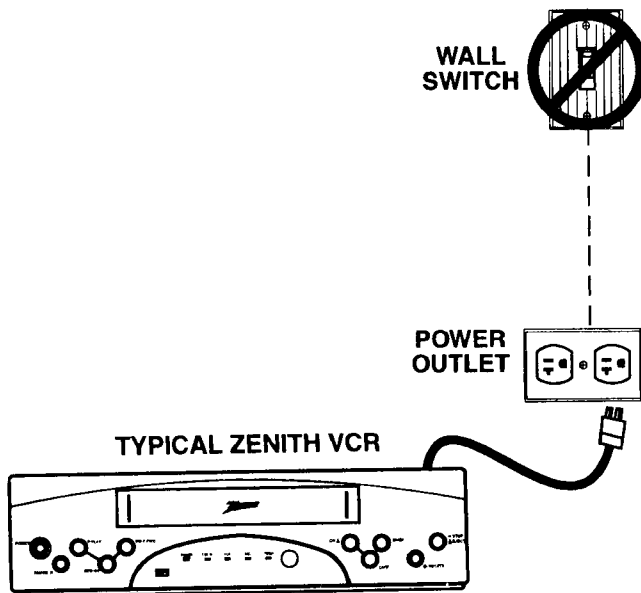


## 2. Connect the Power

**(Required)** Plug your VCR into an unswitched 120 Vac, 60 Hz household power outlet. Turn on the VCR by pressing the POWER switch on the remote control or on the front panel of the VCR.



**Do not plug the VCR into a switched power outlet. Otherwise, when the power is switched off, the VCR turns off. You may then have to reset the time and date, and reprogram operational features.**



## 3. Set Position of the CH3/CH4 Switch

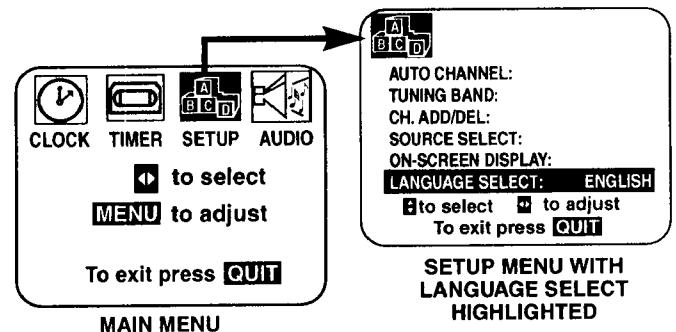
**(Required)** The CH3/CH4 switch on the back panel of the VCR determines which channel is used by the VCR to send video signals to your TV. The TV must be tuned to the same channel you set with the CH3/CH4 switch to see tape playback and status displays from the VCR. To determine which video channel provides the best picture for your system, try the switch in CH3 position and tune your TV to CH3; then try the switch in CH4 position and turn your TV to CH4.

You may use the VCR menus for a test display. Press TV/VCR on remote repeatedly until **VCR** symbol appears in the front panel display of the VCR. Press MENU on the remote to see the main menu.



## 4. Select Language for VCR Menus/Displays

**(Optional)** Select the language (English, Spanish or French) you want for VCR menus and status displays. See LANGUAGE SELECT option on the SETUP menu for details.

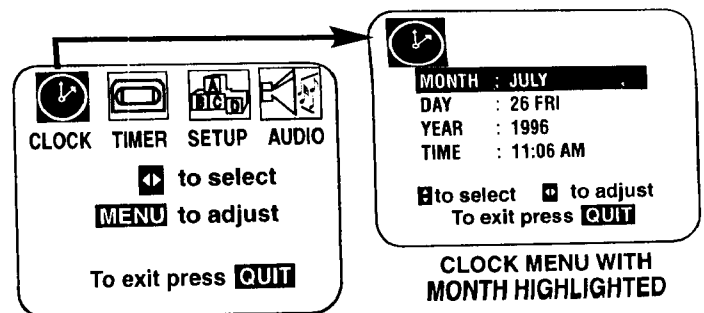


## 5. Set Date and Time for Clock

**(Required)** Set the clock in the VCR to the current date and time. See CLOCK Menu for details.



**Clock must be set before you can use any timer-controlled features of the VCR, e.g. TIMER recordings.**

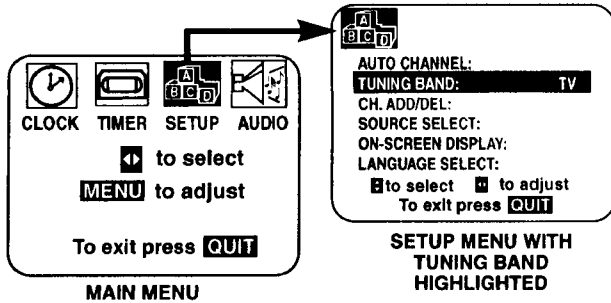




# BEFORE YOU OPERATE YOUR VCR

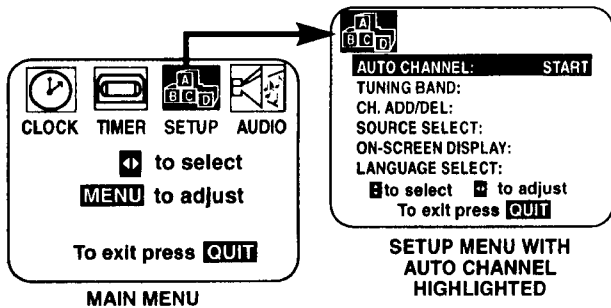
## 6. Select Tuning Band for VCR

(Optional) Set the tuning band of the VCR for the type of program signal you have connected to the ANT IN jack on the back of the VCR. Choose TV if you have an antenna connected to the VCR. Choose CATV if you have a cable system (with or without a cable box) connected to the VCR. See TUNING BAND option on SETUP menu for details.



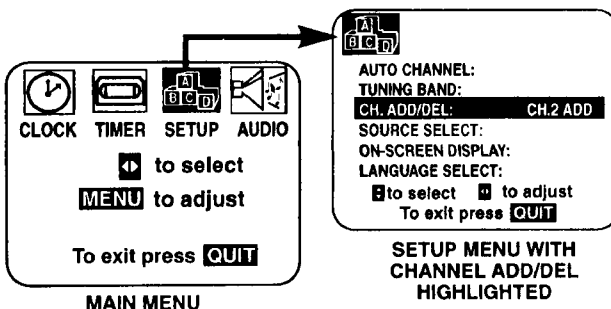
## 7. Use Auto Channel to Find Channels.

(Required) Use AUTO CHANNEL to find active channels in your broadcast area. AUTO CHANNEL stores the active channels in protected memory for access by using Channel Up/Down. See AUTO CHANNEL option on SETUP menu for details.



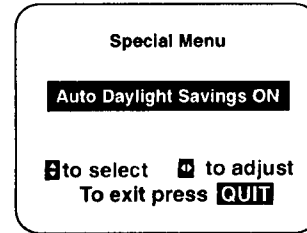
## 8. Use CH. ADD/DEL to Create Favorite Channels

(Optional) Use CH. ADD/DEL to change the list of active channels found when using AUTO CHANNEL, so you can create you own list of favorite channels. See CH. ADD/DEL option on SETUP menu for details.

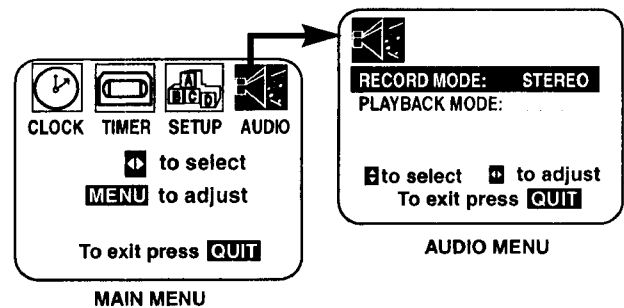


## 9. Select Other Menu Options

- Your VCR adjusts the clock automatically for Daylight Savings Time. Select OFF for this option if you do not want your clock to be adjusted for Daylight Savings Time. Refer to Auto Daylight Savings Menu (Special Menu) for details.

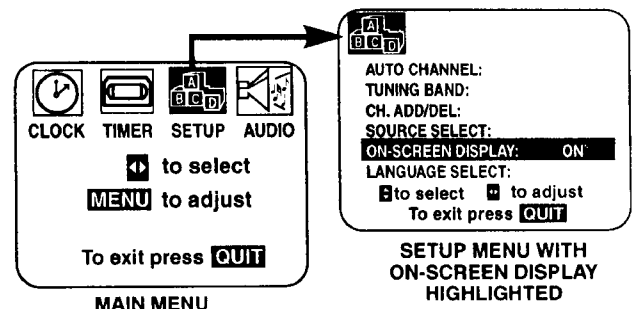


- You may select the audio format (STEREO, MONO or 2ND AUDIO) to be used when you record programs, if you have a stereo VCR. We recommend you set this option to STEREO for recording most programs. Refer to the RECORD MODE option on the AUDIO menu for details.



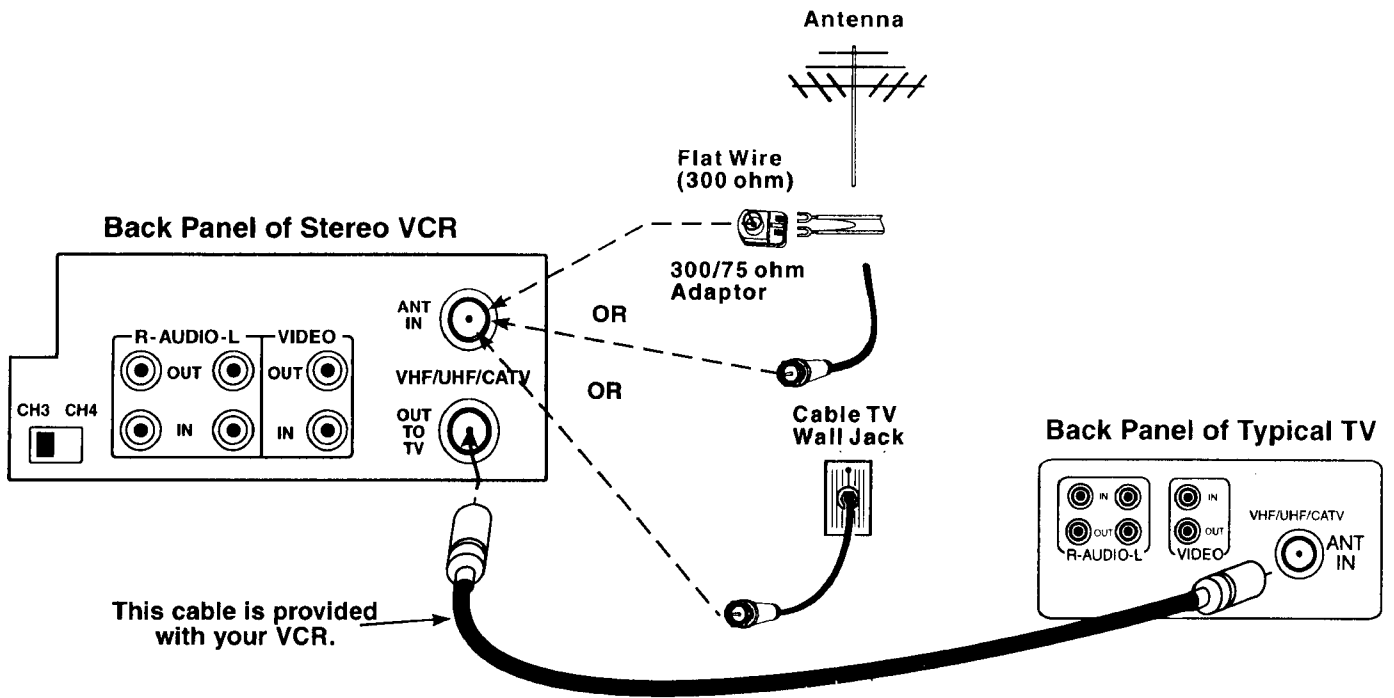
- You may select the audio format (HI-FI or NORMAL) to be used when you play a tape, if you have a stereo VCR. We recommend you set this option to HI-FI for playback of most tapes. Refer to the PLAYBACK MODE option on the AUDIO menu for details.

- You may prevent the VCR status from being shown on your TV by using the ON-SCREEN DISPLAY option on the SETUP menu. We recommend you keep this option to ON to show the VCR status whenever it is provided by the VCR. Refer to the SETUP menu for details.



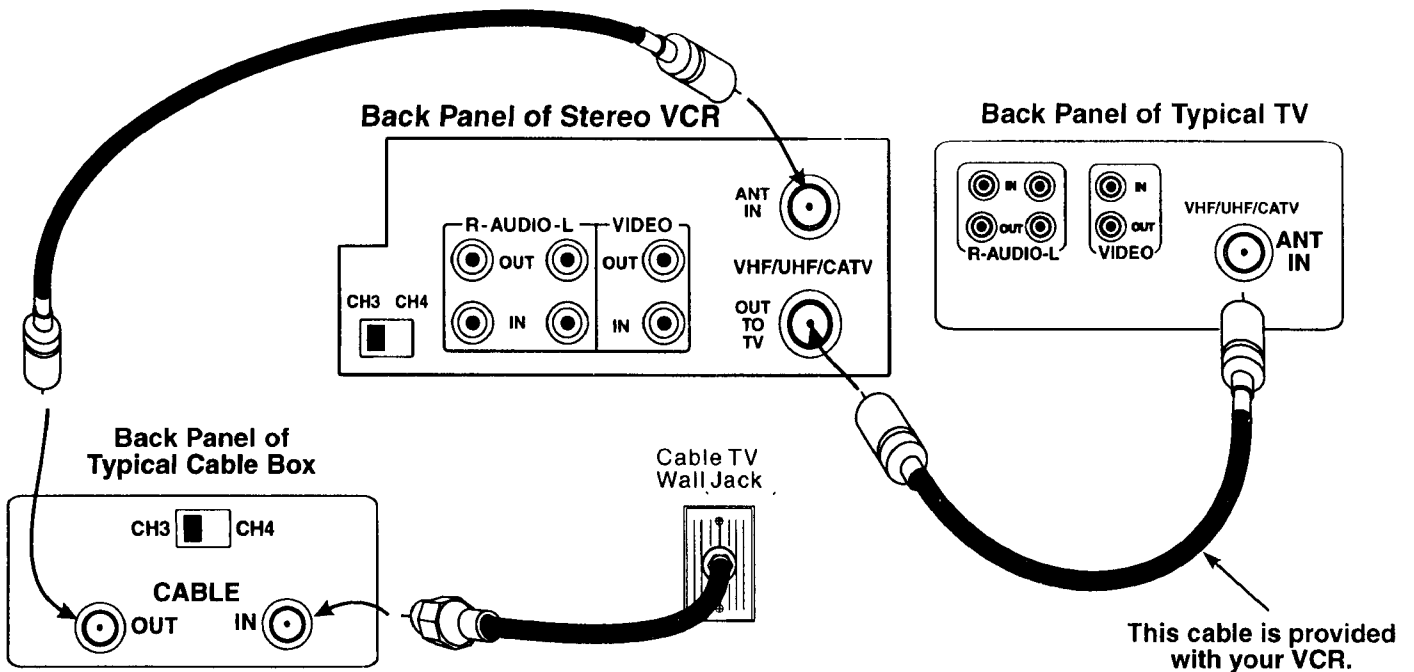
# CONNECTIONS FOR YOUR VCR

## (Required) Connections Without a Cable Box



**TURN OFF POWER OR UNPLUG VCR BEFORE MAKING ANY CONNECTIONS**

## (Required) Connections With a Cable Box

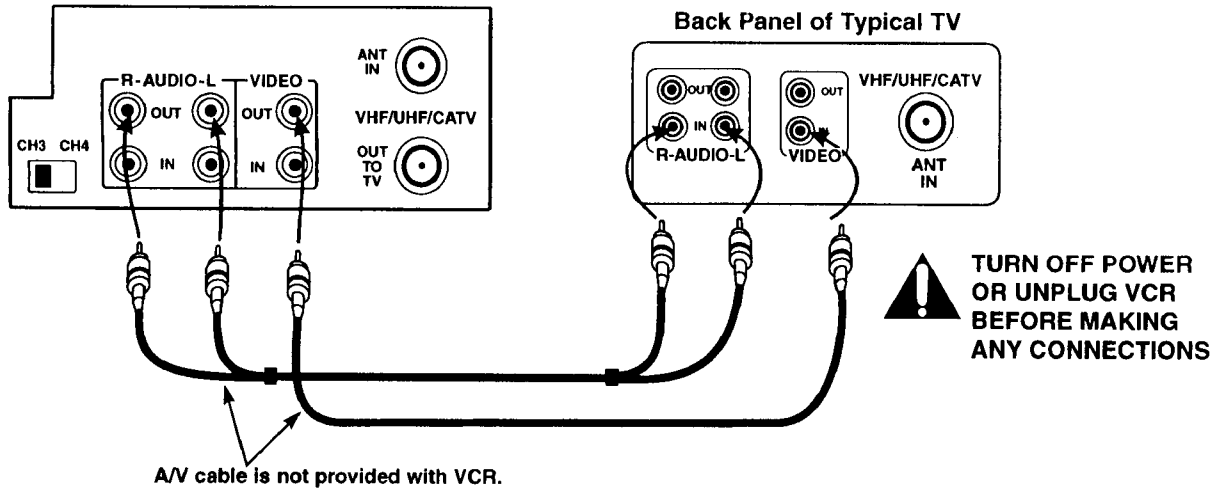


**TURN OFF POWER OR UNPLUG VCR BEFORE MAKING ANY CONNECTIONS**

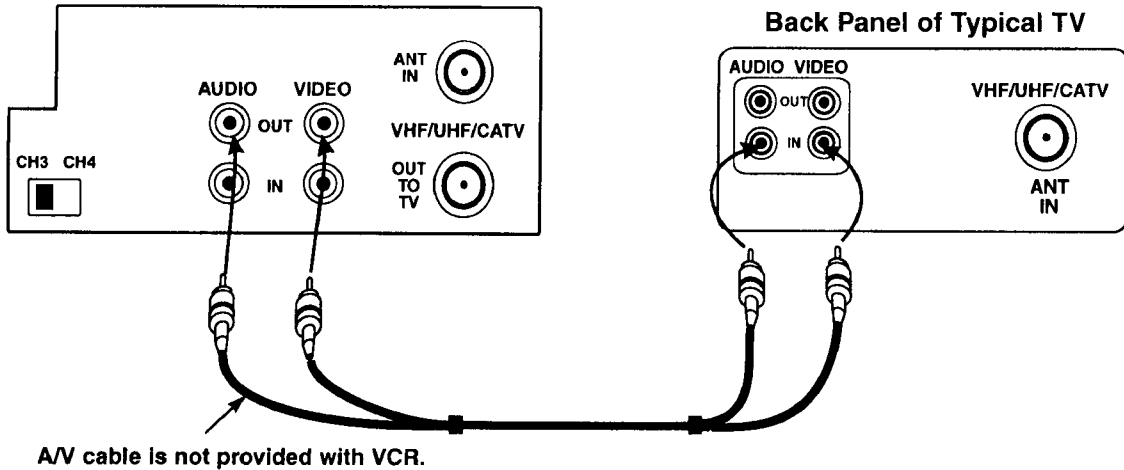
# CONNECTIONS FOR YOUR VCR

## (Optional) Audio/Video (A/V) Connections to TV

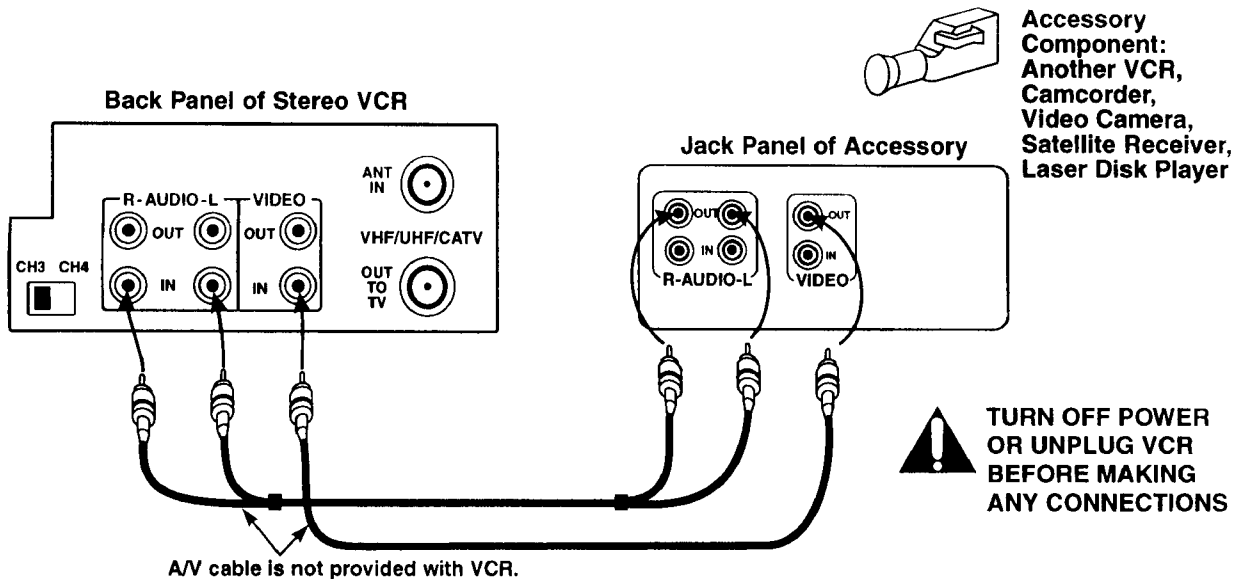
Use A/V connections for improved picture performance.



## Back Panel of Monaural VCR



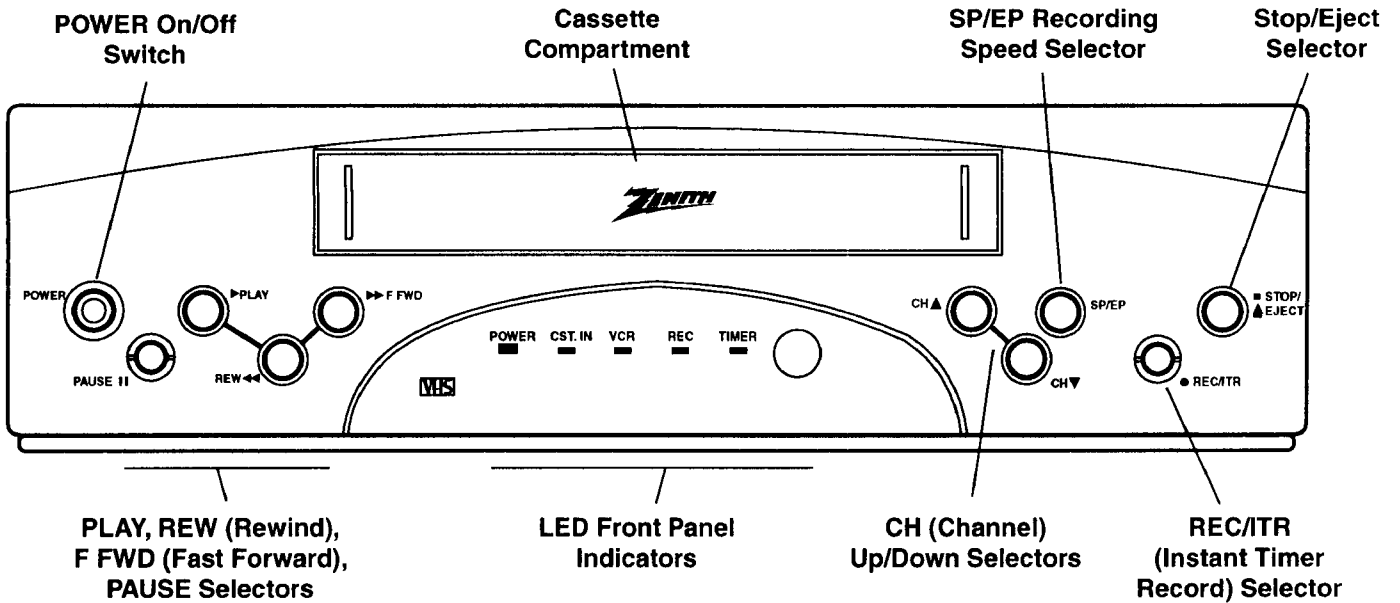
## (Optional) Accessory Audio/Video (A/V) Connections to VCR



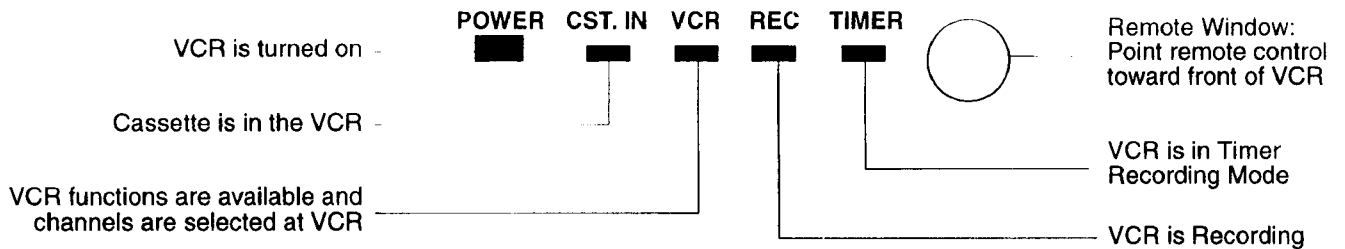
# FRONT PANEL CONTROLS AND DISPLAYS

## Items on the Front Panel

Basic VCR operations can be done by using the items on the front panel. Basic and advanced VCR operations can be done by using the remote control.

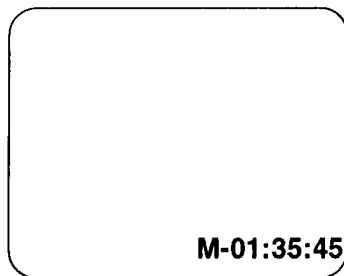
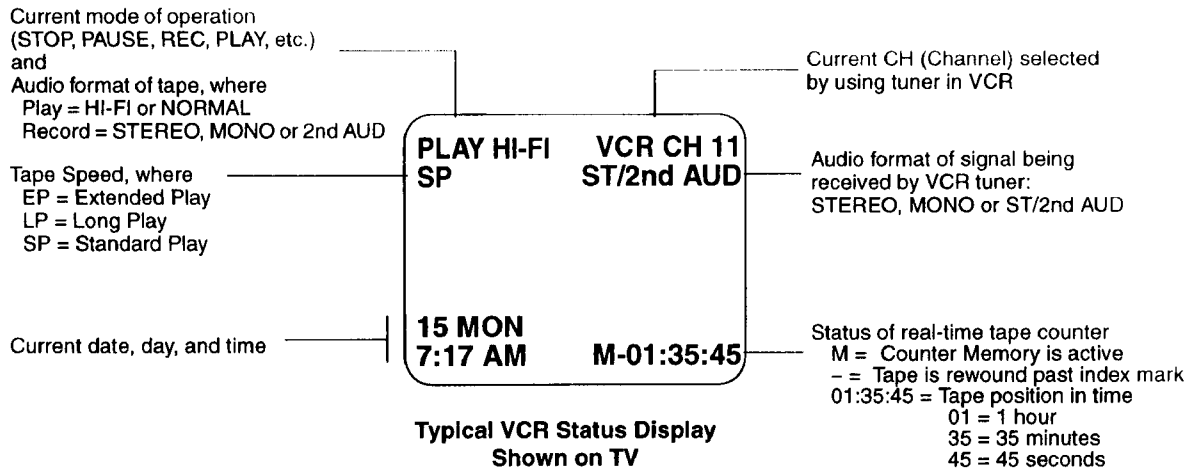


## LED Front Panel Indicators

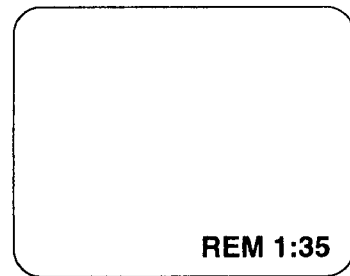


# FRONT PANEL CONTROLS AND DISPLAYS

## VCR Status Displays



**Display Showing  
Tape Counter Position**



**Display Showing  
Tape Time Remaining**

### VCR Status Display Operation

The VCR Status Display appears on the TV when a VCR function starts, like changing a channel or selecting a different VCR mode. For example, pressing STOP while the VCR is in PLAY mode shows STOP in the display. You can press ENTER on the remote control any time to see the Status Display.

**NOTE:** If the VCR Status Display does not appear on the TV screen, check the status of the ON-SCREEN DISPLAY option on the SETUP menu. Select ON Status to see the display. Refer to the "VCR Menu Operations" section for details.

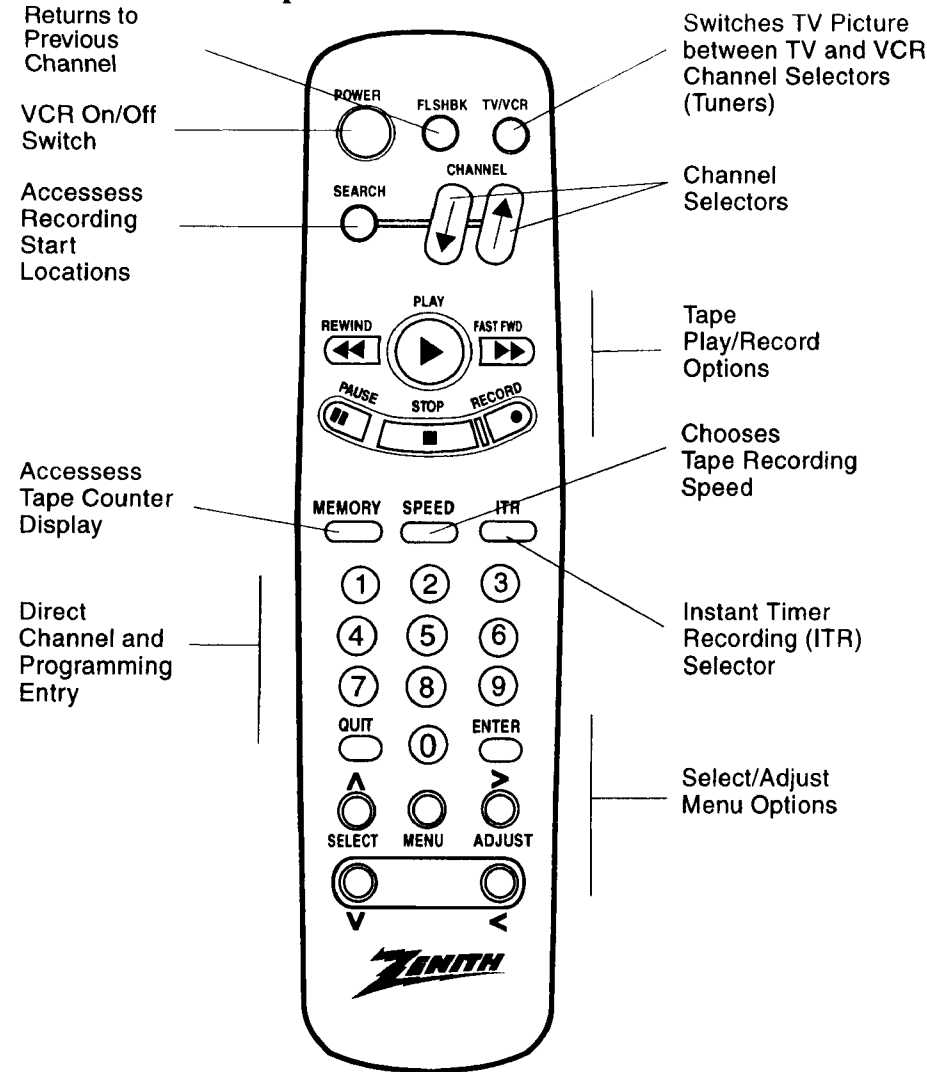
### VCR Status Display Options

When the Status Display is shown, you can press ENTER repeatedly to see abbreviated displays, as follows:

1. Press ENTER to see Status Display.
2. Press ENTER a second time to show only the tape counter position.
3. Press ENTER a third time to show only the tape time remaining.
4. Press ENTER repeatedly until all displays are removed.

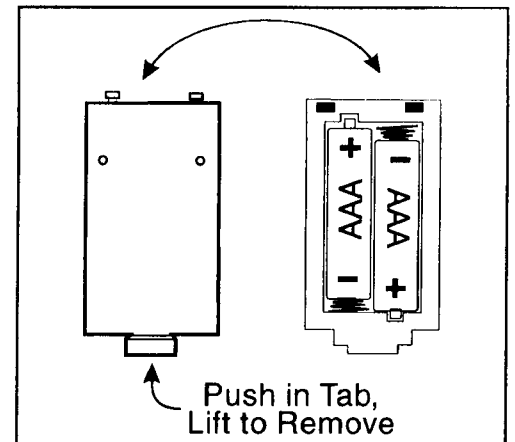
# REMOTE CONTROL SC2105

## Remote Control Operation



**NOTE:** All VCR operations and menu options can be accessed by using the remote control.

## Installing Batteries



Batteries are provided with this remote, but they must be installed. Match positive with positive (+ with +), and negative with negative (- with -).

## Remote Control Keys

**ADJUST (Left/Right)** — Use to change status of menu option. Also used to adjust tape playback tracking.

**CHANNEL (Up/Down)** — Use to change favorite channels. Also used to select AUX A/V input channel.

**ENTER** — Use for programming menu options and to see VCR status display.

**FAST FWD (Forward)** — Use to advance tape rapidly.

**FLSHBK (Flashback)** — Use during tape playback to pause tape and return to previous VCR channel.

**ITR** — Use to access Instant Timer Record feature.

**MEMORY** — Use to zero Real-Time tape counter or return tape to M 0:00:00 position.

**MENU** — Press to see menus and available items.

**Numbered keys** — Use to choose channels and enter programming information.

**PAUSE** — Use to pause tape temporarily during playback or record.

**PLAY** — Use to begin tape playback.

**POWER** — Turns VCR On and Off. Concurrently turns VCR Timer Off and On, if programmed.

**QUIT** — Use to exit any menu.

**RECORD** — Use to access record feature.

**REWIND** — Use to rewind tape.

**SEARCH** — Use to access recording start locations.

**SELECT (Up/Down)** — Use to choose different menu options.

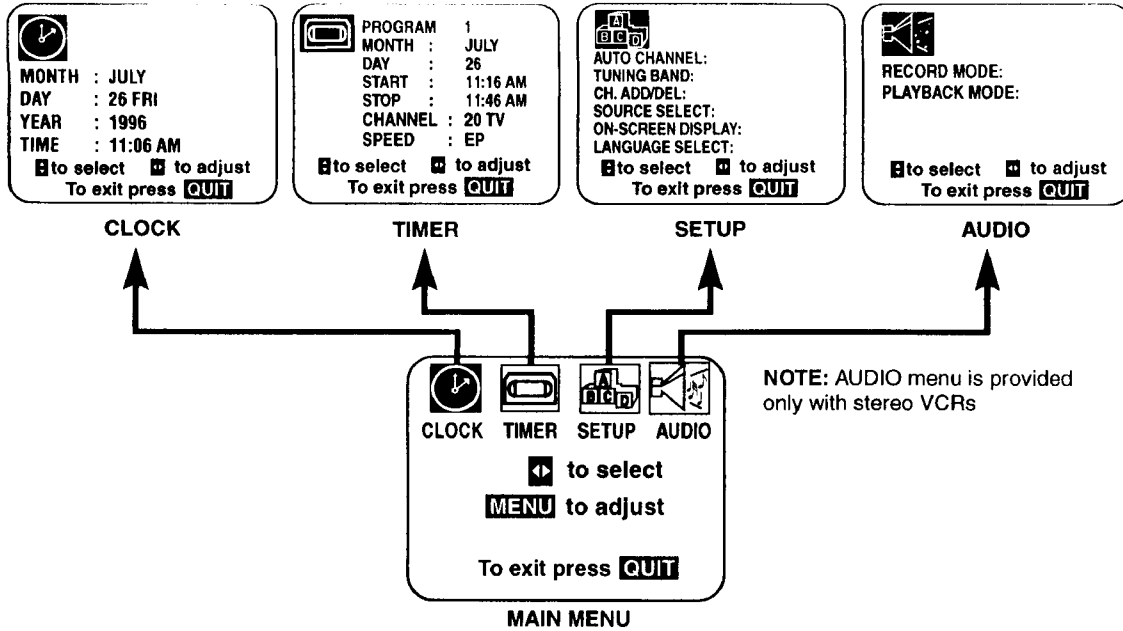
**SPEED** — Use to change EP/SP recording speed.

**STOP** — Use to cancel tape playback or record modes.

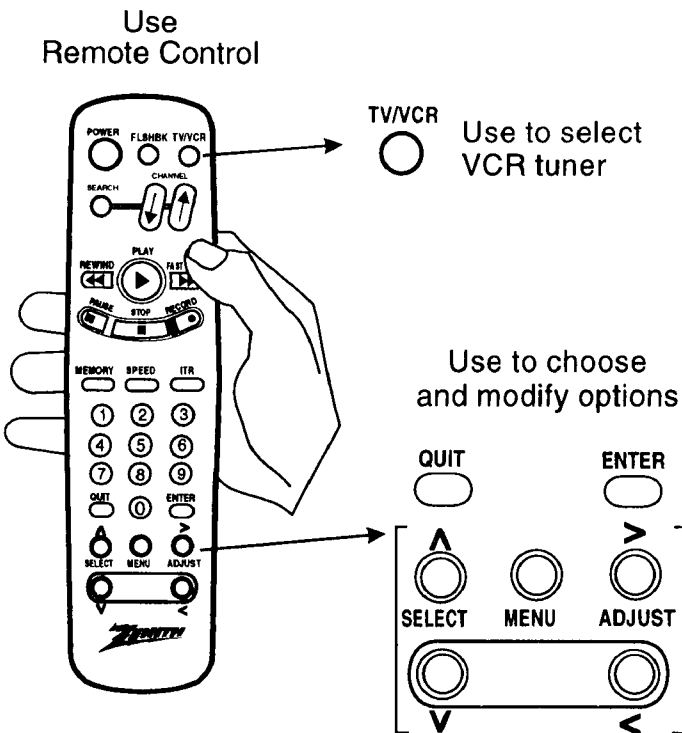
**TV/VCR** — Use to switch source of TV picture between TV channel selection and VCR channel selection. VCR functions are available for use in VCR mode.

# VCR MENU OPERATIONS

## Available Menus



## Basic Menu Operation

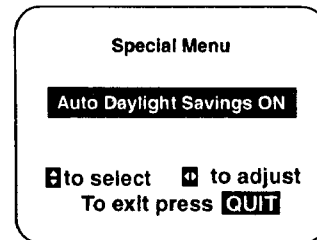


**NOTE:** Menu operations are done with the VCR and TV turned on, and the TV tuned to the VCR video output channel (3 or 4). Also, the VCR must be in the VCR tuner mode of operation. Press TV/VCR repeatedly until **VCR** symbol appears in the VCR front panel.

## How to Access Menus

1. Press MENU to see main menu.
2. Press ADJUST Left/Right repeatedly to select desired sub menu to be used.
3. Press MENU to see options on selected sub menu.
4. Press SELECT Up/Down to choose desired option to be changed.
5. Press ADJUST Left/Right repeatedly to change status of option to desired value.
6. Press QUIT to exit menu, or wait a few minutes and the VCR returns to normal operation.

## Auto Daylight Savings Menu



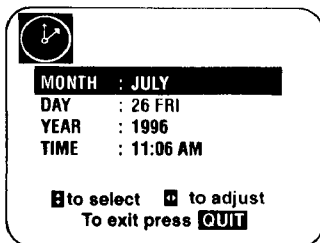
## How to Access Special Menu

1. Press MENU to see main menu.
2. Press 4567 to Access Special Menu.
3. Press SELECT Up/Down to choose Auto Daylight Savings. Press ADJUST Left/Right to choose ON/OFF.
4. Press QUIT to exit menu system.

# VCR MENU OPERATIONS

## Clock Menu

The Clock Menu is used to set the clock in the VCR to the current date and time.



TYPICAL CLOCK MENU WITH DATE AND TIME SETTINGS



**The clock must be set before you can record by using the TIMER menu.**



**You may have to reset the CLOCK if a power outage lasts for more than 15 minutes.**

## How to Set Clock

1. Choose the CLOCK menu as described in "How to Access Menus."

2. Press SELECT Up/Down arrows and ADJUST Left/Right arrows to choose and specify current month, day, and year.

For example: use SELECT Up/Down arrows to choose MONTH position, and use ADJUST Left/Right arrows to choose current month, (JANUARY, FEBRUARY, MARCH etc.)

3. Press SELECT Up/Down arrows to choose TIME position. Use numbered keys or press ADJUST Left/Right to set current time and AM or PM as appropriate.

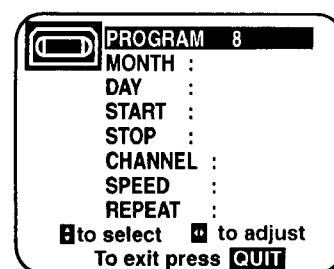
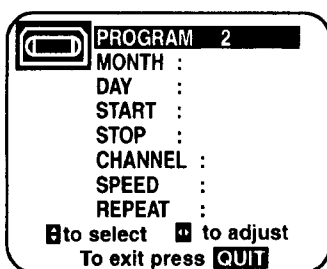
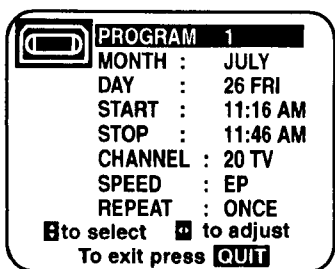
4. Press QUIT to exit the menu system.

**NOTE:** This VCR can adjust the clock automatically for Daylight Savings Time. See "Auto Daylight Savings Menu" for details.

## Timer Menu

The timer menu is used to tell the VCR when to record a program automatically on the day and at the time you

specify. You can specify eight different events to be recorded in a one-year period.



Selected Mode (Timer)

Month of Recording

Day of Recording

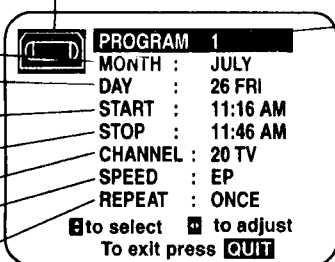
Start Time of Recording

Stop Time of Recording

Channel of Recording

Speed of Recording

Frequency of Recording



Recording Program Number

When highlighted, press ADJUST ◀▶ to choose next program (Program 2).

### REPEAT OPTIONS

ONCE — Records only one time

WEEKLY — Records one time each week

DAILY — Records on time each day, Monday thru Friday

## How to Use Timer

1. Choose TIMER menu as described in "How to Access Menus."

2. Press SELECT Up/Down and ADJUST Left/Right to program the timer.

3. Press QUIT to exit menu system.

**NOTE:** **TIMER** appears in front panel when the VCR is placed in the TIMER mode by pressing POWER to turn the VCR off.

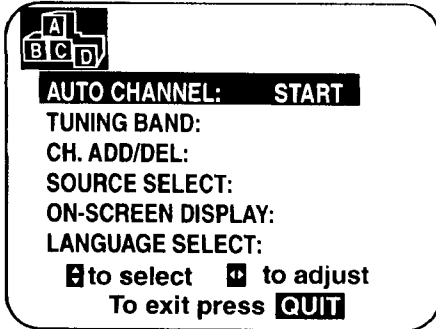


**While VCR is operating in TIMER mode, it cannot be operated manually. If needed, press POWER to release VCR from Timer mode.**



# VCR MENU OPERATIONS

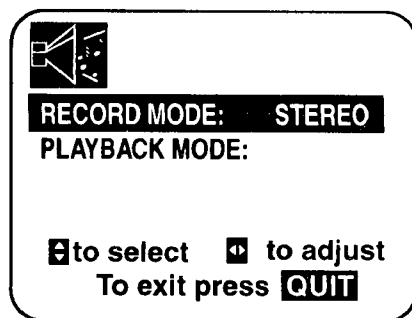
## Setup Menu



The Setup Menu is used to customize the operation of the VCR for your particular system and needs. Choose SETUP Menu as described in "How to Access Menus."

|                   |  |
|-------------------|--|
| AUTO CHANNEL      | Finds all active channels and stores them in the memory of the VCR for access by Channel Up/Down. Press ADJUST Left/Right to begin search.   |
| TUNING BAND       | Designates the type of equipment (TV or CATV) that is connected to the ANT IN jack on the VCR. Choose TV if you have an antenna connected to the VCR. Choose CATV if you have a cable system (with or without a cable box) connected directly to the VCR.  |
| CH. ADD/DEL       | Edits the channels found previously when using AUTO CHANNEL. Use numbered buttons followed by the ENTER key to select the channel to be edited (e.g., to ADD channel 3, press 3 then the ENTER key). Press ADJUST Left/Right to ADD or DEL (Delete) channels to create your own list of favorite channels.   |
| SOURCE SELECT     | Selects the equipment (TUNER or AUX) that is to be used as the source of the program to be watched or recorded. Choose TUNER if you want to use the channel TUNER in the VCR to select the desired program. Choose AUX if you want to see the program from accessory equipment, such as a camcorder, connected to the Audio/Video (A/V) IN jacks on the VCR. |
| ON-SCREEN DISPLAY | Selects whether or not you see VCR menus and Status Displays on the TV.  |
| LANGUAGE SELECT   | Selects the language (English, Español or Français) used to show VCR menus and Status Displays on the TV.  |

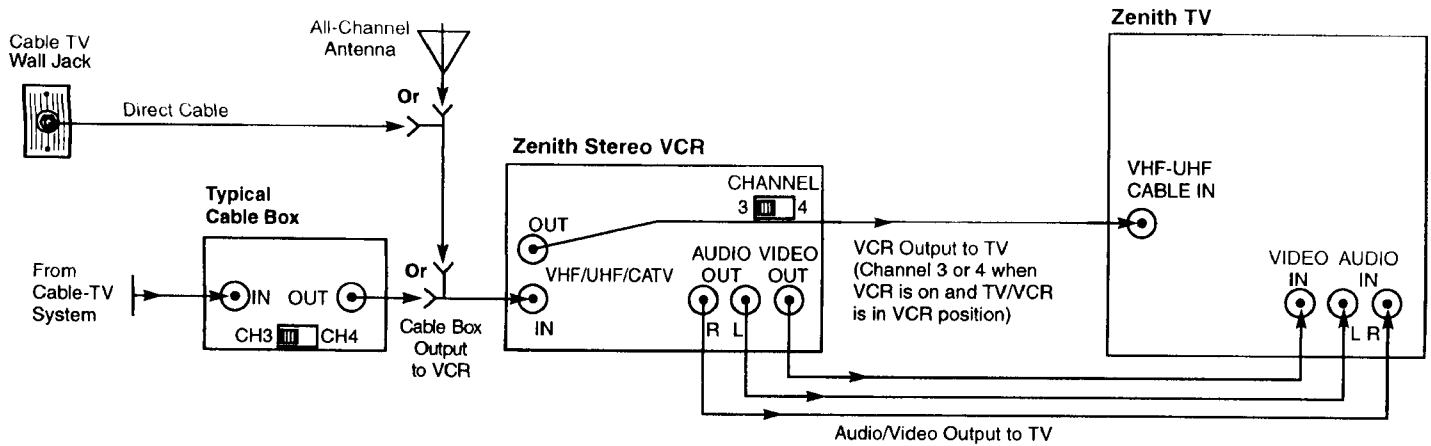
## Audio Menu



The Audio Menu is provided only with stereo VCRs. It is used to specify the type of sound format to be used when recording or playing a tape. Choose AUDIO Menu as described in "How to Access Menus."

|               |  |
|---------------|--|
| RECORD MODE   | Selects the audio format (STEREO, MONO or 2ND AUDIO) to be used when recording a program. STEREO records sound from the left and right audio channels/tracks in stereophonic format. MONO (Monaural) records sound in monaural format even if the program is in stereo. 2ND AUDIO records the Second Audio Program (SAP) channel/track, if present, in addition to the stereo audio channels/tracks. SAP usually contains audio in another language. |
| PLAYBACK MODE | Selects the audio format (HI-FI or NORMAL) to be used during tape playback. HI-FI (High Fidelity) provides stereo sound, if present on the tape, to the Left and Right AUDIO output jacks on the back of the VCR. NORMAL provides monaural sound regardless of the audio format present on the tape.   |

# WATCHING TV THROUGH VCR



## Block Diagram of Typical Video System

### VCR is Turned Off

1. Turn TV on.
2. Select channel to be watched at TV. If you have a cable box, select the cable box output channel (usually 3 or 4) at the TV. Cable box channels are selected at the cable box.

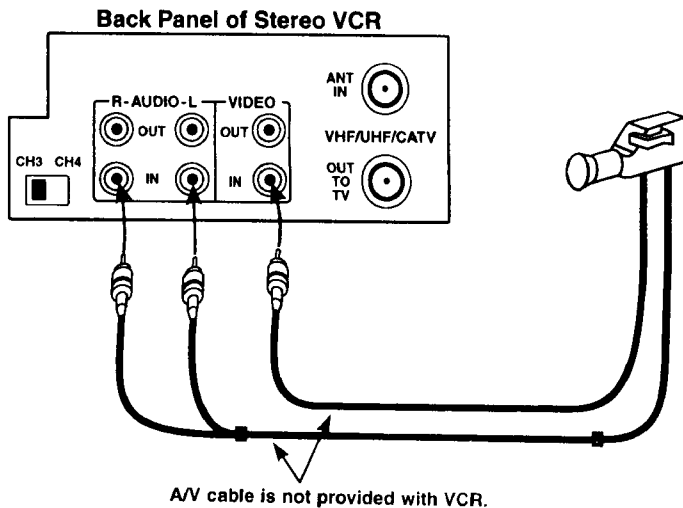
### VCR is Turned On and You Want to Select Channels at TV

1. Turn TV and VCR on.
2. Place VCR in TV mode by pressing TV/VCR switch on remote control repeatedly until the **VCR** symbol disappears from the VCR front panel.
3. Select channel to be watched at TV. If you have a cable box, select the cable output channel (usually 3 or 4) at the TV. Cable box channels are selected at the cable box.

### VCR is Turned On and You Want to Select Channels at VCR

1. Turn TV and VCR on.
2. Place VCR in VCR mode by pressing TV/VCR switch on remote control repeatedly until the **VCR** symbol appears in the VCR front panel.
3. Select the VCR output channel (3 or 4) at the TV. If you have connected your VCR to the A/V input jacks on the TV, you should select the A/V source at the TV for improved picture performance.
4. Select channel to be watched at VCR. If you have a cable box, select the cable box output channel (usually 3 or 4) at the VCR. Cable box channels are selected at the cable box.

## Camcorder Is Connected to VCR



**TURN OFF POWER OR UNPLUG VCR BEFORE MAKING ANY CONNECTIONS**

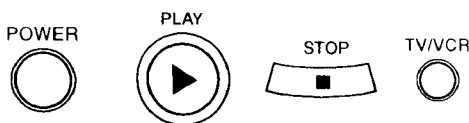
### Select AUX Channel on VCR for Viewing

1. Turn TV and VCR on.
2. Place VCR in VCR mode by pressing TV/VCR switch on remote control repeatedly until the **VCR** symbol appears in the VCR front panel.
3. Select the VCR output channel (3 or 4) at the TV. If you have connected your VCR to the A/V input jacks on the TV, you should select the A/V source at the TV for improved picture performance.
4. Select AUX channel at VCR by using Channel Up/Down to select the next channel after the highest or lowest channel programmed in the VCR.

# PLAYING TAPES



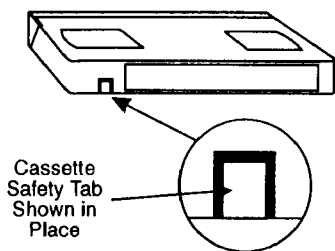
Controls on VCR



Controls on Remote Control

## Automatic Playback (No Safety Tab)

1. Tape playback begins automatically, if the safety tab is removed from the cassette case. Simply insert the prerecorded VHS cassette into the VCR. Power turns on and playback begins automatically.
2. Select the VCR output channel (CH3/CH4) at the TV. Or, select the AUX (Auxiliary) source at TV to see picture if you are using the A/V jacks.



Cassette Safety Tab Shown in Place

## Auto/Manual Tracking Adjustment

Your VCR adjusts tracking automatically when you play a tape. If the tape was recorded on a different VCR, streaks (video noise) may appear. While the tape is playing, press ADJUST (Left/Right) to adjust the tracking manually.

## Real-Time Tape Counter

Press ENTER two times to keep the real-time tape counter display on the TV screen. Press ENTER repeatedly to remove all displays. The counter resets to 0:00:00 when you insert a cassette or when a tape is rewound to its beginning.

## Pause/Forward/Reverse Slow-Motion Video

(While in Play mode) Press PAUSE, for still video. Press PAUSE again, and follow on-screen instructions for Forward or Reverse slow motion. Selected direction is used until you press PLAY to resume normal tape playing.

## Tape Rewind and Fast Forward

(While in Stop mode) Press and release REWIND or FAST FWD, as desired. Press STOP when tape reaches desired location.

## Reverse/Forward Search and Jet Search

(While in Play mode) Press and release REWIND or FAST FWD, as desired. Press and hold REWIND or FAST FWD for Jet Search. Press PLAY to resume normal tape playing.

## VHS Cassette Playback/Record Times

| Cassette Length | SP (Standard Play)  | LP (Long Play)      | EP (Extended Play) |
|-----------------|---------------------|---------------------|--------------------|
| T-30            | 30 Minutes          | 1 Hour              | 1 Hour, 30 Minutes |
| T-60            | 1 Hour              | 2 Hours             | 3 Hours            |
| T-120           | 2 Hours             | 4 Hours             | 6 Hours            |
| T-160           | 2 Hours, 40 Minutes | 5 Hours, 20 Minutes | 8 Hours            |

**NOTE:** Your VCR sets the playback speed automatically to the speed used to record the tape. This VCR records only in SP and EP speeds.

## Manual Playback (Has Safety Tab)

1. Press POWER to turn VCR on.
2. Insert a prerecorded VHS cassette into the VCR.
3. Press PLAY to begin playback.
4. Select the VCR output channel (CH3/CH4) at the TV. Or select AUX (auxiliary) source at TV to see picture if you are using the A/V jacks.

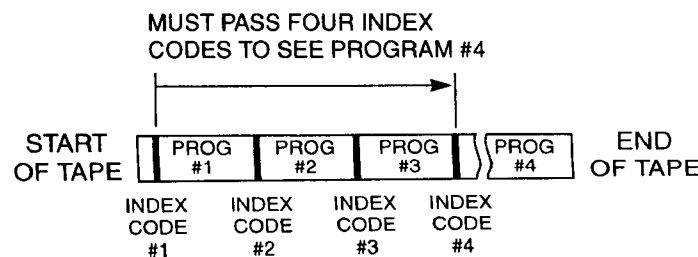
## Unloading the Cassette from the VCR

1. Press STOP if the tape is playing.
2. Press and hold STOP/EJECT at the VCR until the cassette is ejected from the VCR.

## Index Search

An index code is inserted on the tape at the start of each recording. You can use the index codes to search and rapidly locate the segment of the tape you want to see. Index search can only be used on tapes recorded on this VCR.

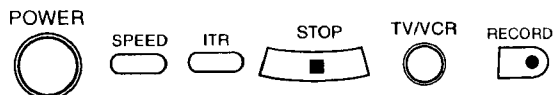
Rewind the tape to the beginning and press SEARCH. Input the number of index codes from the beginning of the tape that will get you to your playback start location, and then press FAST FWD. The VCR advances the tape to that location and begins playback. Or, during playback, press STOP and then press SEARCH. Input the number of index codes that need to be passed to reach your desired playback start location, and press FAST FWD or REWIND, as appropriate.



# INSTANT RECORDING



Controls on VCR



Controls on Remote Control

## Recording What You Are Watching On TV

Instant Recording is a method of attended recording where you record until the end-of-tape is reached or you press STOP to stop recording.

1. Turn TV and VCR on.
2. Place VCR in VCR mode by pressing TV/VCR on remote control repeatedly until the **VCR** symbol appears in the VCR front panel.
3. Select the VCR output channel (3 or 4) at the TV. If you have connected your VCR to the A/V input jacks on the TV, you should select the A/V source at the TV for improved picture performance.
4. Select the channel to be watched and recorded at the VCR. If you have a cable box, select the cable box output channel (usually 3 or 4) at the VCR. Cable box channels are selected at the cable box.
5. Insert a VHS cassette tape into the VCR.
6. Press SPEED or SP/EP to select recording speed, if desired. Recording speed is always SP, unless EP is selected.
7. Press and hold ITR or REC/ITR until recording begins. **REC** appears in the VCR front panel. Recording continues until the end-of-tape is reached, or until you press STOP to stop recording.

## Recording By Using Preset Time Periods

Instant Timer Recording (ITR) is a method of attended recording where you record for a specific preset time period, instead of recording until the end-of-tape is reached. For example, you may want to record a program for only 30 minutes because that is when the program ends.

1. Perform steps 1 through 7 above for Instant Recording.
2. Press ITR or REC/ITR repeatedly to select a preset recording time period. Each subsequent press of ITR or REC/ITR increases the recording time by 30 minutes until a maximum of 4 hours is reached.

## Preset Time Periods For ITR Recording

| Presses of ITR or REC/ITR | Display Provided | Preset Time For Recording |
|---------------------------|------------------|---------------------------|
| 1 (Press/Hold)            | Current Time     | Until end-of-tape         |
| 2                         | 0:30             | 30 minutes                |
| 3                         | 1:00             | 1 hour                    |
| 4                         | 1:30             | 1 hour and 30 minutes     |
| 5                         | 2:00             | 2 hours                   |
| ⋮                         | ⋮                | ⋮                         |
| 9                         | 4:00             | 4 hours                   |
| 10                        | 0:00             | VCR turns off             |

**NOTE:** Preset recording time counts down until the recording time is over.

## Options Which Can Be Used While Recording

| Instant Recording (until end-of-tape)  | Instant Timer Recording (Preset Recording Times)   |
|--|--|
| PAUSE — Momentarily pauses recording. Press PAUSE again to resume recording.               | STOP or STOP/EJECT — Stops and exits recording mode.                                       |
| REWIND or REW — Rewinds tape until STOP or STOP/EJECT is pressed or tape is rewound fully. | REWIND or REW — Rewinds tape until STOP or STOP/EJECT is pressed or tape is rewound fully. |
| STOP or STOP/EJECT — Stops and exits recording mode.                                       |  |

**NOTE:** Some remote controls have a RECORD button which may be used instead of ITR or REC/ITR to active Instant Recording.

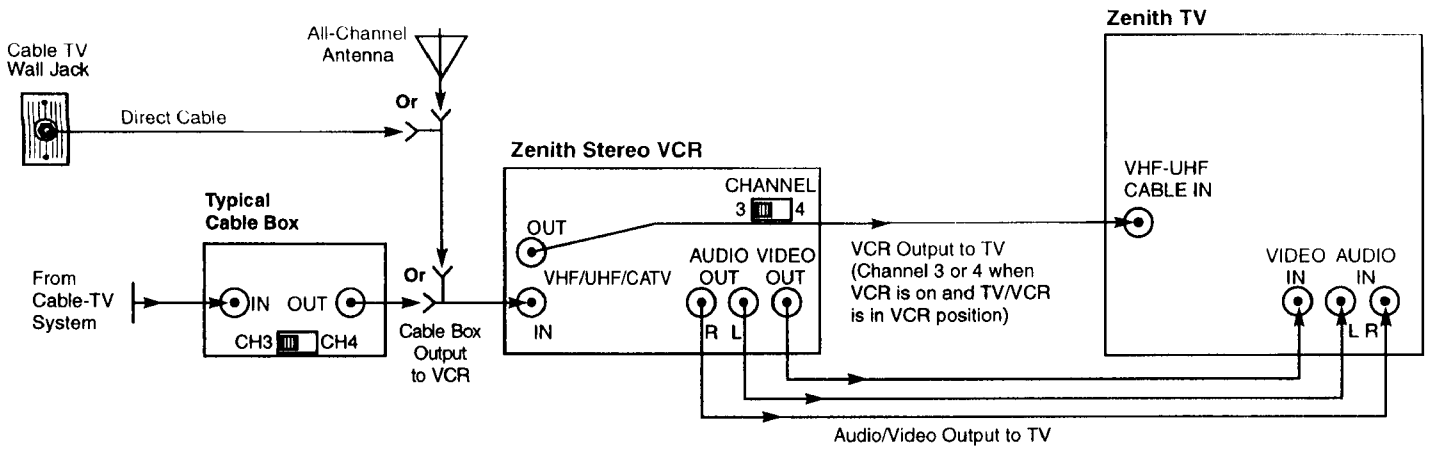
## Recording One Program While Watching Another Program

The program you record is selected using the channel selector in the VCR and the program you watch is selected using the channel selector in the TV. If you have a cable box connected to your VCR, you cannot record one program and watch another program.

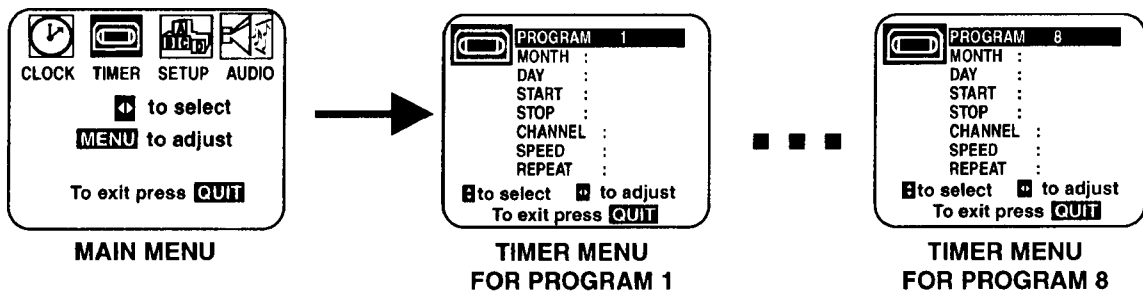
1. Perform steps 1 through 7 above for Instant Recording.
2. Place VCR in TV mode by pressing TV/VCR on remote to turn off **VCR** symbol in the VCR front panel.
3. Select program to be watched using the channel selector in the TV.

**NOTE:** To return to the program you are recording, select the VCR video channel (3 or 4) at the TV and place the VCR in the VCR mode by pressing TV/VCR on remote to show **VCR** symbol in VCR front panel.

# TIMER-CONTROLLED RECORDING



## Block Diagram of Typical Video System



## Recording While You Are Away

Timer-controlled recording is a method of unattended recording available for you to use. It allows you to record a program on the day and at the time you specify. The program may be recorded only once, or it can be recorded on a daily or weekly basis. Eight different events can be programmed into the TIMER for recording, as long as no event overlaps other events in the same time period.

1. Turn TV and VCR on.
2. Place VCR in VCR mode by pressing TV/VCR switch on remote control repeatedly until the **VCR** symbol appears in the VCR front panel.
3. Select the VCR output channel (3 or 4) at the TV.
4. Insert a VHS cassette tape into the VCR.
5. Program events to be recorded in the TIMER by following the procedure given in the TIMER MENU section of this operating guide. If you have a cable box, select the cable box output channel (usually 3 or 4) as the channel to be recorded. Keep your cable box turned on when using the TIMER to record programs.

6. Enable the TIMER by pressing the POWER switch to turn off the VCR. **TIMER** appears in the VCR front panel to indicate the VCR is in the TIMER mode of recording.

## VCR Operation with Timer Turned Off or On

| VCR POWER | TIMER STATUS | VCR OPERATION   |
|-----------|--------------|---|
| On        | Off          | Disables timer-controlled recording if an event is programmed in the TIMER. All other VCR operations can be used as desired.  |
| Off       | On           | Enables timer-controlled recording if an event is programmed in the TIMER. VCR cannot be operated manually while the TIMER is enabled. The assumption here is that you want to record at a later time if you have programmed the TIMER. |

## SERVICE INFORMATION

### Before Calling for Service

Please refer to the following Problem/Resolution Chart before calling for service. As a prelude to solving any VCR problem, turn on TV and VCR. Select appropriate input for the TV to receive the video signal from the VCR. Most likely you will use the Antenna In connection to the TV, and select channel 3 or 4 at the TV. Place the VCR in the VCR mode by pressing TV/VCR on the remote repeatedly until **VCR** symbol appears in the VCR front panel. If you have a cable box, turn on the cable box and select the cable box output channel (usually 3 or 4) at the VCR.

| <b>Operating Problems</b>   |   |   |
|---|---|---|
| Observed Condition  | Possible Cause                          | Probable Solution   |
| No power to the VCR.  | Power cord is not connected.            | Connect power cord.   |
| Remote control does not function.   | Batteries are weak.                     | Replace with new batteries.   |
|   | You are too far away from the VCR.      | Move closer to the VCR.   |
| No picture appears on TV screen from any VCR function.  | Source for TV is not selected properly. | Set INPUT source on TV to Audio/Video In, or tune TV to Channel 3 or 4, as appropriate.             |
|   | TV/VCR mode for VCR is set to TV.       | Press TV/VCR on remote repeatedly to choose VCR mode. <b>VCR</b> symbol appears in VCR front panel. |
| VCR features do not function. VCR does not respond to remote control functions or buttons on VCR. | VCR is locked up.                       | Disconnect VCR power cord for five (5) minutes. Reset clock and other features as necessary.        |

| <b>Channel Tuning Problems</b>                             |  |  |
|--|--|--|
| Some channels are skipped over when using Channel Up/Down. | Those channels were deleted with the CH. ADD/DEL option. | Use CH. ADD/DEL to restore channels. See SETUP menu for details. |
| Picture and sound are weak or missing.                     | Antenna or cables are loose.                             | Tighten connections or replace cable.                            |
|  | Wrong TUNING BAND option is being used.                  | Try all TUNING BAND options. See SETUP menu for details.         |

| <b>Playing Tapes (Playback) Problems</b>                                   |   |  |
|--|---|--|
| Tape will not rewind or fast forward.                                      | Tape is fully rewound or is at its end.                               | No action available.   |
| Mechanical sound is audible during playback.                               | <b>Note:</b> This is normal operating sound from internal mechanisms. | No action available.   |
| Tape playback does not appear on TV screen.                                | Source for TV is not selected properly.                               | Set Input source on TV to Audio/Video In, or tune TV to Channel 3 or 4, as appropriate.  |
|  | TV/VCR mode for VCR set to TV.  | Press TV/VCR repeatedly to choose VCR mode. <b>VCR</b> symbol appears in VCR front panel.  |
| Video "Noise" (horizontal streaks) appear during normal tape playing.      | Tape is a rental or was recorded on another VCR.                      | Use ADJUST (Left or Right) for manual tracking adjustment while tape is playing.   |
|  | Tape heads are dirty.   | Clean Video heads.   |
| VCR Status Display "flickers" when using STILL video during tape playback. | Tape tracking needs to be adjusted while in slow-motion playback.     | From STILL video mode, enable slow-motion playback. Use ADJUST (Left or Right) to adjust tracking for best picture. Return to PLAY mode, then press PAUSE for STILL video. |

## SERVICE INFORMATION

| Recording Problems  |   |  |
|---|---|--|
| Camcorder image is not shown.                                   | Camcorder is off.   | Turn camcorder on and operate properly.  |
| Camcorder image via A/V input to VCR is not shown on TV screen. | VCR SOURCE SELECT is set to TUNER                               | Use Channel Up/Down to select AUX A/V input channel.   |
| Timer recording is not possible.                                | Clock in VCR is not set to correct time.                        | Set clock to correct time. See CLOCK menu.   |
|   | VCR is on which disables timer.                                 | Turn VCR off to enable timer. <b>TIMER</b> appears in the VCR front panel.                           |
|   | Timer has been programmed incorrectly.                          | Reprogram Timer. See TIMER menu.   |
|   | <b>TIMER</b> indicator does not appear after programming timer. | Reprogram Timer and turn VCR off to enable timer.  |
| <b>TIMER</b> indicator appears after VCR is turned off.         | VCR is in Timer Recording mode.                                 | This is normal indication that the VCR is in TIMER mode. If needed, disable TIMER by turning VCR on. |

| Stereo Audio Record and/or Playback Problems |  |   |
|--|--|---|
| Stereo is not present from VCR output.       | TV is not Stereo compatible.                               | No action is possible.  |
|  | Program is not in stereo format.                           | No action is possible.  |
|  | VCR A/V Out jacks are not connected to TV A/V In jacks.    | Make A/V connections. Stereo is available only via A/V output from VCR. |
|  | VCR Audio/Video Out is not selected for viewing at the TV. | Select AUX or A/V source as TV input.                                   |
|  | VCR AUDIO RECORD mode is set to 2nd AUDIO or MONAURAL.     | Set VCR AUDIO RECORD mode to Stereo. See AUDIO menu.                    |

### Automatic Video Head Cleaning

The VCR automatically cleans the heads as it is used. However, after long periods of use, the video heads may become clogged with accumulated dirt, causing distortion. When this occurs, use a do-it-yourself **wet-head** cleaning cassette available from your Zenith dealer.

**Caution:** Do not use a dry-head cleaning system. It may seriously damage the VCR and cassettes used in the VCR. Visual signs such as snow, streaking in picture, and horizontal pulling of picture indicate the need for professional video head cleaning. See your Zenith approved service center for cleaning.

### Cabinet Cleaning

The outside surfaces of the VCR may be cleaned with a soft lint-free cloth as required. Use care not to scratch the VCR during cleaning.

# Recommended Accessories For Your VCR

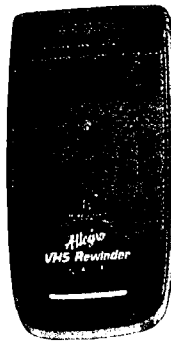


## Broken or Lost Remote Control?

For an **exact replacement remote control** for your new Zenith VCR, see your local Zenith dealer or order direct by calling **1-800-255-6790**. To assure the correct remote for your new Zenith, please have your VCR's model number ready when you call!

**Only \$39.95**

## Videotape Rewinder



### Eliminate wear and tear on your equipment

Prolong the life of your expensive VCR or camcorder with this one way videotape rewinder:

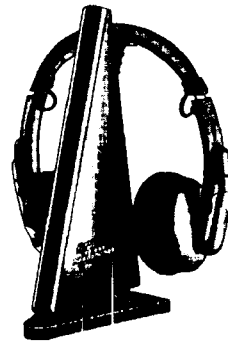
- Load up a second video while the first rewinds.
- Helps eliminate costly repair work.
- Works with full size camcorders too!
- Easy to use.

### ALG1140

One Way Video Rewinder

**Only \$12.95**

## Wireless Headphones



### Complete Cordless Stereo Headphones

Relax and enjoy your favorite music or TV programs without disturbing others:

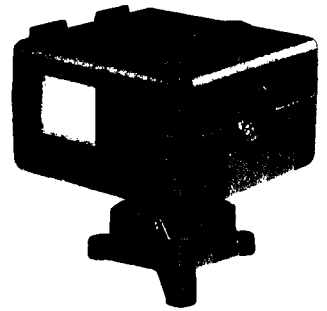
- Operates with any TV, VCR or Stereo System.
- Works up to 50 feet.
- Separate left and right volume controls.
- Great for the hard of hearing.

### ALG2032

Wireless Headphone System

**Only \$69.95**

## Video Transfer System



### Don't let your memories fade away!

Preserve the joy of weddings, graduations and birthdays for years to come:

- Copies photos, slides and home movies onto any videotape easily.
- Works with all film projectors and camcorders.
- Built-in lens prefocuses for sharper results.

### ALG1344

Video Transfer System

**Only \$49.95**

Photocopy Page and Detach Here

To order these fine accessories, please complete this order form and return a photocopy with your payment to:

Accessory Offers  
Zenith Video Tech Corporation  
1000 Milwaukee Avenue  
Glenview, Illinois 60025-2493

Or Call 1-800-255-6790

Check or Money Order  
(Made Payable to Zenith Video Tech Corp.)



Account #

Expiration Date \_\_\_\_\_ Signature \_\_\_\_\_

IMPORTANT: PLEASE BE SURE TO COMPLETE THE INFORMATION BELOW

TV Model Number \_\_\_\_\_ TV Serial Number \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_  
(from Sticker on back of unit) (from Sticker on back of unit) (Approx. date of purchase)

PLEASE ALLOW 2-3 WEEKS FOR DELIVERY

| Item Number   | Description | Quantity | Price per Item        | Total Price |
|---|-------------|----------|-----------------------|-------------|
|   |             |          |                       |             |
|   |             |          |                       |             |
|   |             |          |                       |             |
|   |             |          |                       |             |
| Sales Tax: Please add your state sales tax if you live in one of the following states.            |             |          | Sub Total             |             |
| CA 7.75%, GA 6%, IL 8.75%, KS 4.9%, KY 6%, ME 6%, NJ 6%, PA 6%, RI 7%, TX 7.75%, VA 4.5%, WA 8.2% |             |          | State Sales Tax       |             |
|   |             |          | Shipping and Handling | \$4.50      |
|   |             |          | Total Amount of Order |             |

(Note: Orders can only be sent to customers within the United States.)

Ship To: \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Apt# \_\_\_\_\_ City \_\_\_\_\_

State \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Telephone (\_\_\_\_\_) \_\_\_\_\_





# AVISO PARA NUESTROS CLIENTES DE HABLA HISPANA

Zenith publica muchos de sus manuales de instrucciones en idioma español. Si le interesa pedir la versión en español de este manual, llene el formulario provisto a continuación, fotocópielo y envíelo a la dirección indicada.

No todos los manuales de instrucciones están disponibles en español. Sin embargo, podemos proporcionarle el manual que corresponde a un modelo similar a este, en el cual se describen casi todas las características del producto que usted utiliza.

El manual en español es gratis.

## Instrucciones:

1. Llene el formulario proporcionado a continuación con la información solicitada.
2. Haga una fotocopia del formulario de pedido y envíela a:

**Service Literature Department  
Zenith Video Tech Corporation  
1000 Milwaukee Avenue  
Glenview, IL 60025-2493**

Fotocopie la página y corte la línea punteado

### Formulario de pedido de su manual de instrucciones

(Este formulario de pedido es solo válido para el producto descrito en este manual)

**206-3120  
Y,I-TOOL**

Número de modelo \_\_\_\_\_ (lo encontrará en la parte posterior del aparato)

Nombre \_\_\_\_\_

Dirección \_\_\_\_\_ Apartamento \_\_\_\_\_

Ciudad \_\_\_\_\_ Estado \_\_\_\_\_ Código postal \_\_\_\_\_

País (si afuera de E.E.U.U.) \_\_\_\_\_



# YOUR ZENITH VCR WARRANTY

## VIDEO CASSETTE RECORDER OR PLAYER

Welcome into the Zenith family! We believe that you will be pleased with your new Zenith video product. Please read this Warranty carefully. It is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

### Zenith's Responsibility

**Service Labor** — During a period of 90 days from effective warranty date, Zenith will pay for service labor by a U.S. or Canadian Zenith authorized service center when needed as a result of manufacturing defects.

**Parts** — New or remanufactured replacements for factory-defective parts will be supplied by a U.S. or Canadian Zenith authorized service center for one year from effective warranty date. Such replacement parts are warranted for the remaining portion of the original warranty period.

**Not Covered** — This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

**NOTE:** Before you ask for Warranty service, check the Operating Guide section entitled, "SERVICE INFORMATION." It may be possible to avoid a service call.

### Owner's Responsibility

**Effective Warranty Date** — Warranty begins on the date of original consumer installation. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

**Operating Guide** — Read your operating guide carefully so that you will understand the operation of your video product and how to adjust the customer controls.

**Carry-In Service** — The video product must be taken to a U.S. or Canadian Zenith authorized service center for warranty service and must be picked up by the owner.

**TV Set Performance** — It is the owner's responsibility to maintain the TV receiver with which the video product is used, and the associated antenna system, in proper operating condition.

**Important: Product Registration** — Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

**Warranty Service** — For warranty service information, contact your Zenith dealer preferably, or any U.S. or Canadian Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, write:

**Zenith Electronics Corporation**  
**Customer Service Department**  
**1000 Milwaukee Avenue**  
**Glenview, Illinois 60025-2493**  
**Telephone: (847) 391-8752**  
**Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time**

## ADDITIONAL ZENITH PROTECTION PLAN AVAILABLE

Zenith offers you the opportunity to obtain additional long-term protection against failure of your new VCR. Our VCR Protection Plan enables you to avoid any unexpected repair expenses and keep your VCR in top condition. It guarantees you genuine Zenith replacement parts and service from a Zenith authorized service center.

Be sure to send in the **Product Registration Card**. We will send you an application for the Protection Plan near the expiration of the manufacturer's warranty. For additional information, call (847) 391-8757.