

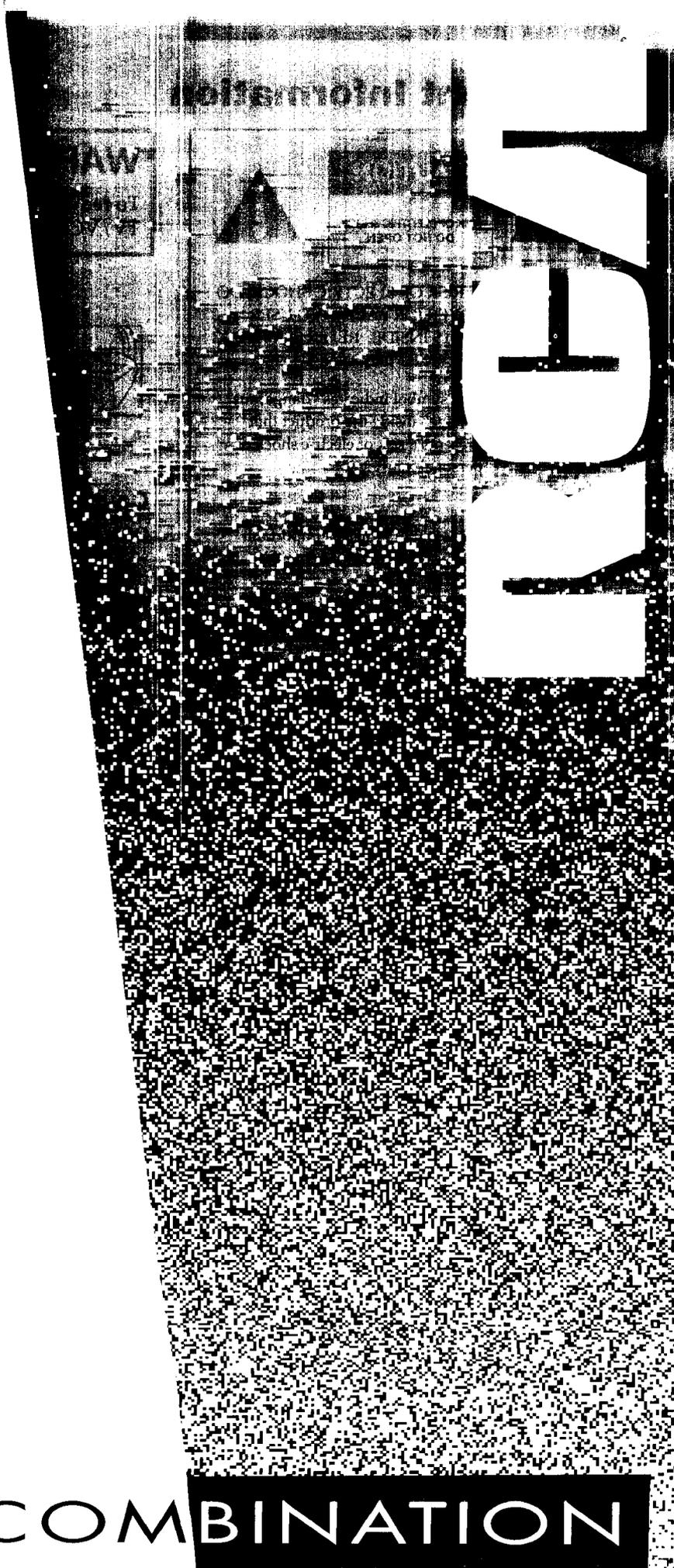
T25003BC

# USER'S GUIDE

S-571-04-8511



TV/VCR COMBINATION



125003BC

# Important Information



**CAUTION**

**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.



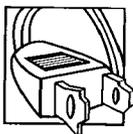
This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

## WARNING

To reduce the risk of fire or shock hazard, do not expose this TV/VCR combination to rain or moisture.



**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.

### Cautions

Do not defeat the safety feature of the plug. The wide blade fits into the wall socket only one way. If you need an extension cord, make sure it matches the plug of the TV/VCR combination.

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

### Note To 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.

### Product Registration

Please fill out the product registration card and return it immediately. Returning this 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 TV/VCR combination.

Model No. **T25003BC** \_\_\_\_\_

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

Purchase Date: \_\_\_\_\_

Dealer / Address / Phone: \_\_\_\_\_

\_\_\_\_\_

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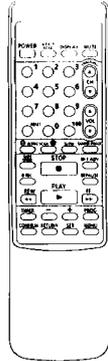
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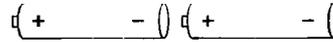
## Startup

### 1. Check accessories with TV/VCR combination.

Contact your dealer if any items are missing.

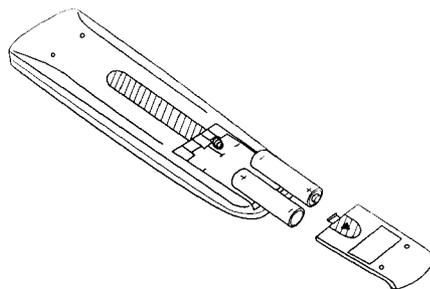


Remote  
(Stock No. 228892)



2 "AA" Batteries

### 2. Insert batteries in remote.



### 3. Connect antenna or cable-TV system.

Connect a home antenna or cable-TV system. *Details on pages 24-26.*

### 4. Place the TV/VCR where you want to operate it.

Place the TV/VCR in a location where it is safe to operate.

**CAUTION:** If you choose to use a stand with your TV/VCR, take precautions that the stand or other furniture the TV/VCR is placed on is properly located and of adequate size and strength to prevent the TV/VCR from accidentally being tipped over or pulled off. This could cause damage to the TV/VCR and/or personal injury.

# Startup

## 5. Turn on TV/VCR.

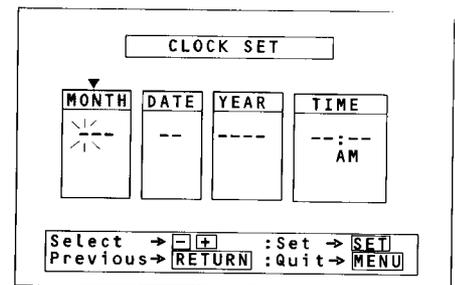
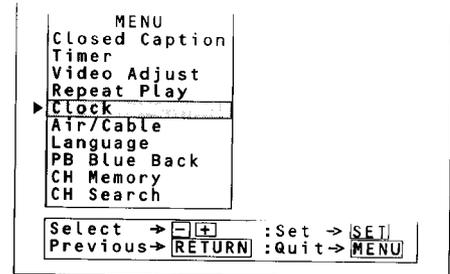
Press POWER on the TV/VCR or remote. The POWER/WAKE indicator on the front of the TV/VCR will light.

## 6. Set the clock.

- A. Press MENU on the remote to display the MENU.
- B. Press + or - to highlight the Clock feature.
- C. Press SET to display the CLOCK SET menu.
- D. Use the - and + buttons on the remote to enter the MONTH.
- E. Press SET to highlight and activate the next function. Continue until you have set the correct MONTH, DAY, YEAR, and TIME. Set the hour including AM or PM and minutes.
- F. Press SET to exit the CLOCK SET menu and start the clock.

Press RETURN during any menu function to return to the previous function or menu.

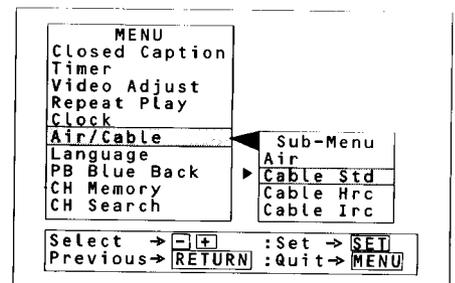
To correct an entry, press SET to highlight the desired function. Then use the - and + buttons to change the entry. Press MENU to exit the CLOCK SET menu.



## 7. Set the signal type.

- A. Press MENU on the remote to display the MENU.
- B. Press + or - to highlight the Air/Cable feature.
- C. Press SET to activate the Air/Cable Sub-Menu.
- D. Use the - and + buttons on the remote to highlight your type of signal.
- E. Press SET to select the signal type.

Please contact your local cable company if you are not sure of your cable type.



## Startup

### 8. Place channels in the TV/VCR's memory.

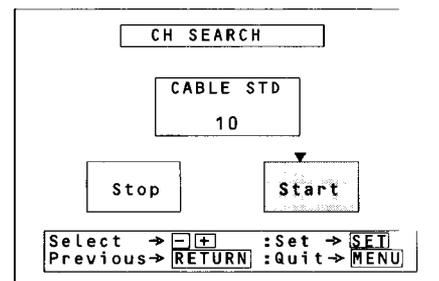
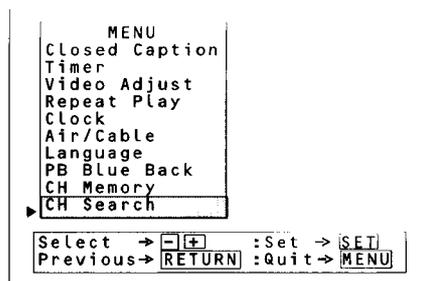
Follow these steps to automatically place channels in the TV/VCR's memory.

- Press MENU on the remote to display the MENU.
- Press + or - to highlight the CH Search feature.
- Press SET to display the CH SEARCH menu.
- Press - or + to highlight Start.
- Press SET to start the TV/VCR auto channel searching.

Wait until the channel numbers stop changing. This takes a few minutes. The TV/VCR will then tune to the lowest channel found.

Pressing CH up or down will select only the active channels.

**To stop auto channel search:** Press SET to stop the TV/VCR auto searching.



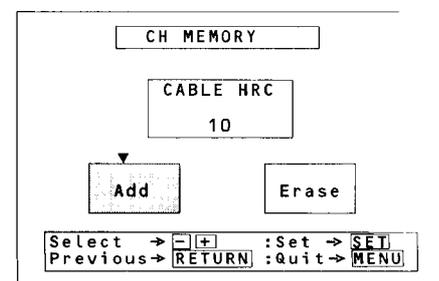
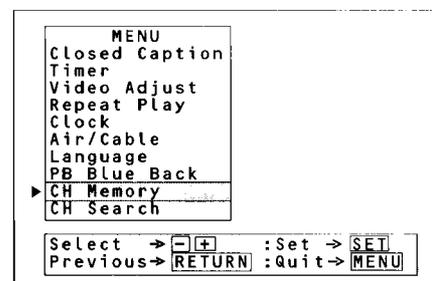
### 9. Add or erase channels from the TV/VCR's memory.

You may want to add or remove channels if some of them are not active, have weak signals, or you do not want them in your channel memory. A channel that has been deleted can still be selected by pressing number buttons.

- Press MENU on the remote to display the MENU.
- Press + or - to highlight the CH Memory feature.
- Press SET to display the CH MEMORY menu.
- Add or erase channels to the TV/VCR's channel memory.
  - Press - or + to highlight Add.
  - Press - or + to highlight Erase.

Add or erase more channels by entering the channel number or pressing CH up or down.

- Press MENU to exit the CH MEMORY menu.



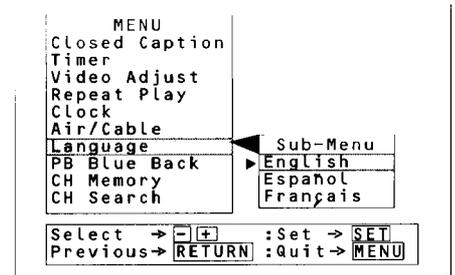
continued on next page

## Startup

### 10. Select the language.

This feature lets you select English, Spanish, or French as the language for your on-screen menus.

- A. Press MENU on the remote to display the MENU.
- B. Press + or - to highlight the Language feature.
- C. Press SET to activate the Language Sub-Menu.
- D. Use the - and + buttons on the remote to highlight the desired language.
  - Highlight English and press SET to display the menus in English.
  - Highlight Español and press SET to display the menus in Spanish.
  - Highlight Français and press SET to display the menus in French.

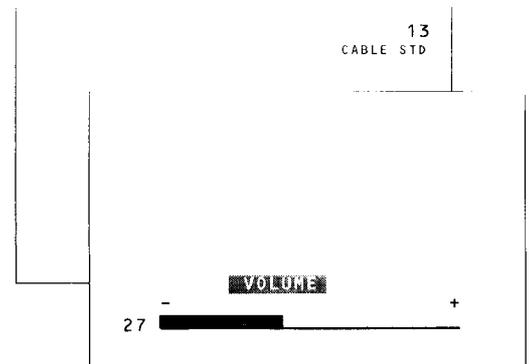


### 11. Select a channel and adjust the volume.

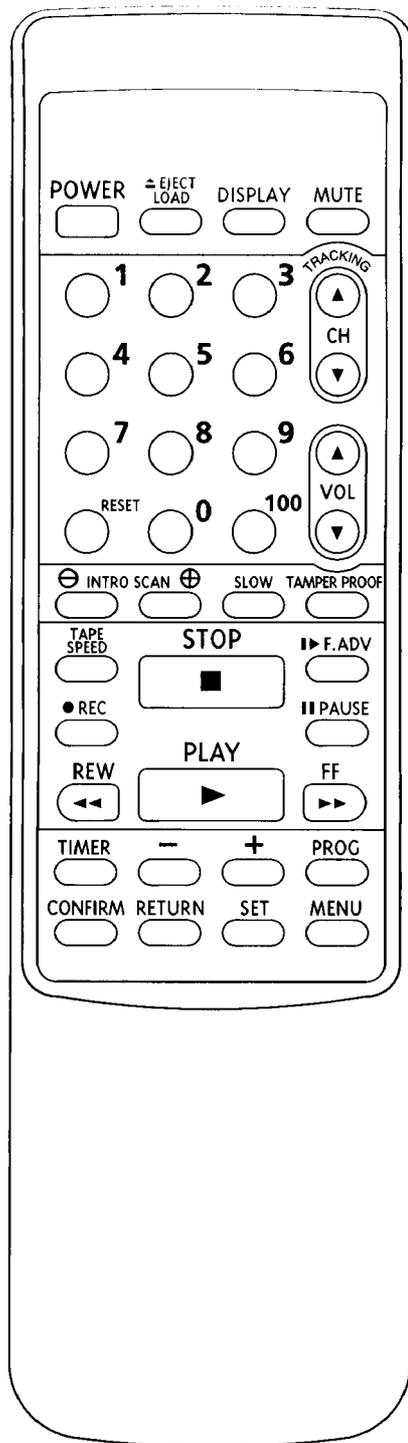
- A. Press CH up or down, or number buttons on the remote to select a channel.
 

Example: Press 0 then 2 for channel 2. The channel number is displayed on the TV screen.

For cable channels over 99, press 100. Then press two more numbers. Example: Press 100, then press 0, then press 2, for channel 102.
- B. Press VOL up or down to adjust the volume. The volume display appears on the screen.



# Buttons



### - and + Buttons

Used to select and set features when using the on-screen menus.

### CH (Channel) /TRACKING Up or Down

Selects next higher or lower channel in channel memory.

Lets you manually reduce the streaks that may appear in the picture during playback.

### CONFIRM

Lets you confirm the timer programs that have been set.

### DISPLAY

Shows TV and VCR operating displays on TV/VCR screen.

Removes displays from the TV/VCR screen.

### EJECT•LOAD

Used to eject or load a tape.

### F.ADV (Frame Advance)

Advances the tape one frame at a time when the TV/VCR is in play pause.

### FF (Fast Forward)

Fast forwards the tape when the TV/VCR is stopped.

Searches the picture in forward motion during playback.

### INTRO SCAN ⊖ and ⊕

Used to search the tape for index marks.

Use ⊖ and ⊕ to adjust speed of slow motion playback

### MENU

Displays the MENU on the screen.

Removes a menu from the screen.

## Buttons

### **MUTE**

Turns sound on or off.

When sound is turned off, closed captions (ch 1 mode) automatically appear on the screen when they are broadcast.

### **Numbers (0 through 9 and 100)**

Select a channel up to 99 by pressing two numbers.

Select a cable channel over 99 by pressing 100, 1 -- appears on the screen. Then press the other two numbers.

### **PAUSE**

Pauses action for viewing during playback.

Pauses recording to prevent recording of unwanted scenes.

### **PLAY**

Plays a tape.

### **POWER**

Turns TV/VCR on or off.

### **PROG (Program)**

Used to display the REC-RESERVATION menu to set timer recordings.

### **REC (Record)**

Starts TV/VCR recording.

### **RESET**

Used to reset the tape counter to 0:00:00.

### **RETURN**

Lets you return to the previous function or menu during on-screen programming.

### **REW (Rewind)**

Rewinds the tape when the TV/VCR is stopped.

Searches the picture in reverse motion during playback.

### **SET**

Used to activate functions and menus during on-screen programming.

### **SLOW**

Used to start slow-motion playback.

Use ⊖ and ⊕ to adjust speed of playback.

### **TAPE SPEED**

Selects a recording speed (SP or EP).

### **STOP**

Stops normal functions such as record, playback, rewind, fast forward, and pause.

### **TAMPER PROOF**

Used to lock all of the controls on the TV/VCR and remote.

### **TIMER**

Used to set the TV/VCR for a timer recording.

### **VOL (Volume) Up or Down**

Raises and lowers sound.

# Using the TV/VCR Features

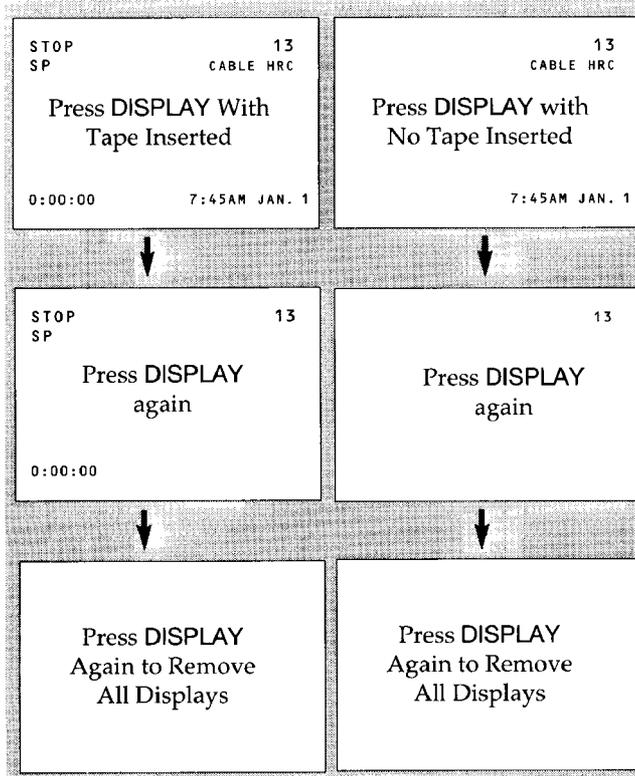
## On-Screen Displays

Whenever a function button is pressed or you change channels, the function (or channel number) is automatically displayed on the screen.

### To Manually Call Up On-Screen Displays

1. Press DISPLAY on the remote.
  - **Tape in TV/VCR:** To display the function, tape speed, channel number, signal type, time counter, date, and time.
  - **No tape in TV/VCR:** To display the channel number, signal type, date, and time.

If you do not press DISPLAY again, these displays will time out.
2. Press DISPLAY again:
  - **Tape in TV/VCR:** Time counter, function, tape speed, and channel number remain on the screen.
  - **No tape in TV/VCR:** Small channel number remains on screen. These displays will not time out.
3. Press DISPLAY again to remove all displays from the screen.



## Tamper Proof Lock

This feature allows you to lock all of the controls on the front of the TV/VCR and the remote. The TV/VCR will not respond to any control. This prevents someone from accidentally turning off a timer recording.

### Turn On the Tamper Proof Lock

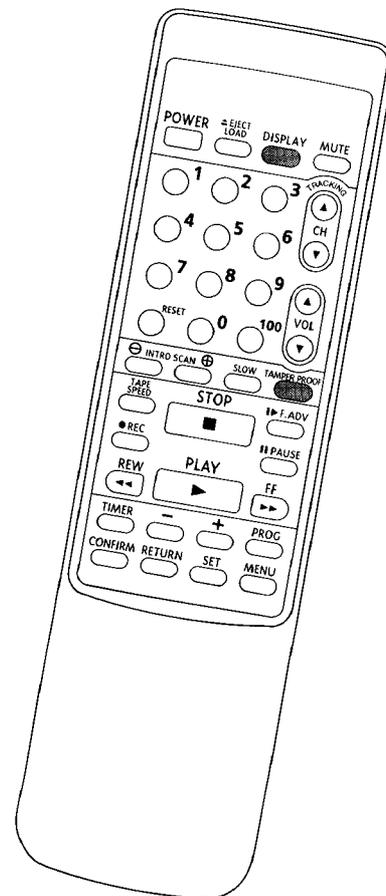
- Press and hold the TAMPER PROOF button on the remote for several seconds to turn on the tamper proof lock.

The TAMPER PROOF indicator on the TV/VCR will flash while the lock is setting and then remain on when the lock is set.

### Turn Off the Tamper Proof Lock

- Press and hold the TAMPER PROOF button on the remote for several seconds to turn off the tamper proof lock.

The TAMPER PROOF indicator on the TV/VCR will turn off.



# Using the TV/VCR Features

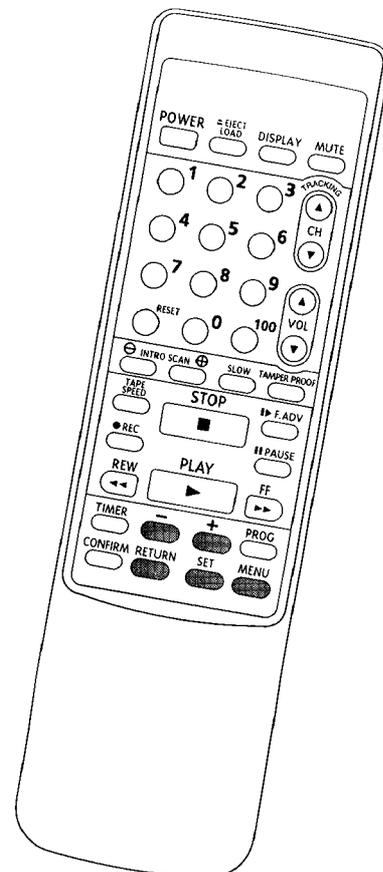
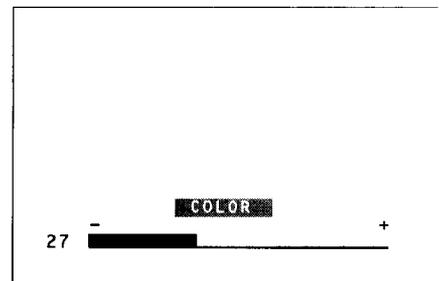
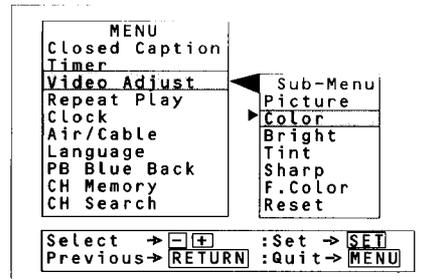
## Adjust the Video

Use the Video Adjust menu to adjust the picture for your personal preference. The TV/VCR will remember the settings you select.

### To Adjust Video

1. Press MENU on the remote to display the MENU.
2. Press + or - to highlight the Video Adjust feature.
3. Press SET to activate the Video Adjust Sub-Menu.
4. Use the - and + buttons on the remote to highlight the function you want to adjust.
  - Select Picture to adjust contrast.
  - Select Color to adjust color intensity.
  - Select Bright to adjust picture brightness.
  - Select Tint to adjust for natural fleshtones.
  - Select Sharp to adjust picture sharpness.
  - Select F. (favorite) Color to adjust color temperature.
  - Select Reset to reset video to factory default settings.
5. Press SET to display the highlighted function adjustment screen.
6. Use the - and + buttons on the remote to adjust selected function.

Press SET or RETURN to return to the Video Adjust menu or press MENU to remove the menus from the screen.



# Using the TV/VCR Features

## Closed Captions

Closed captioning displays the dialog of a program as words on the TV screen. It is useful for the deaf, hearing impaired, or anyone who wants to watch a program without sound. If you have turned closed captioning on and it does not appear on the screen, it is not available on the channel you are watching. Check your TV program listings for CC (closed caption) broadcasts. This TV/VCR also supports two text modes used to display text sent from a TV station or cable company.

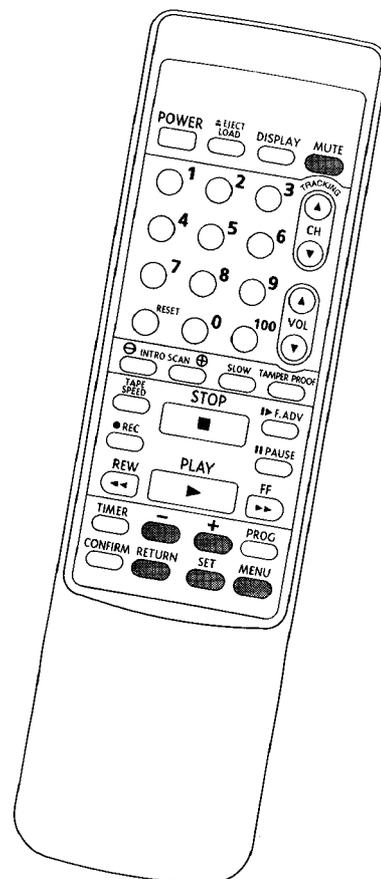
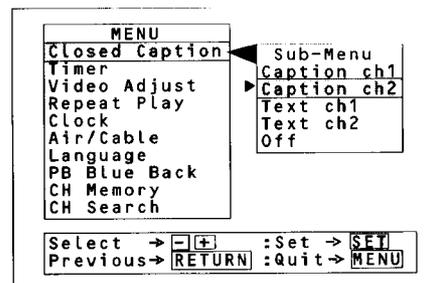
The closed caption or text signal is automatically recorded when it is broadcast. To view the captions or text during playback, follow the steps below.

### To View Closed Captions

1. Press MENU on the remote to display the MENU.
2. Press + or - to highlight the Closed Caption feature.
3. Press SET to activate the Closed Caption Sub-Menu.
4. Use the - or + button on the remote to highlight the desired closed caption display mode.
  - Highlight Caption ch1 or Caption ch2 and press SET to have captions appear on the screen if they are broadcast.
  - Highlight Text ch1 or Text ch2 and press SET to have information appear on the screen when it is broadcast.
  - Highlight Off and press SET to turn the caption feature off. No captions will appear on the screen.

Press RETURN to return to the previous menu or press MENU to remove all menus from the screen.

If the MUTE button is pressed, closed captions (ch 1 mode) will automatically appear on the screen when broadcast. Press MUTE again to remove the captions.



# Using the TV/VCR Features

## Wake-Up Timer

The wake-up timer turns the TV/VCR on at a desired time. You can set it to wake you up in the morning or remind you that a favorite program is about to start.

### To Set the Wake-Up Timer

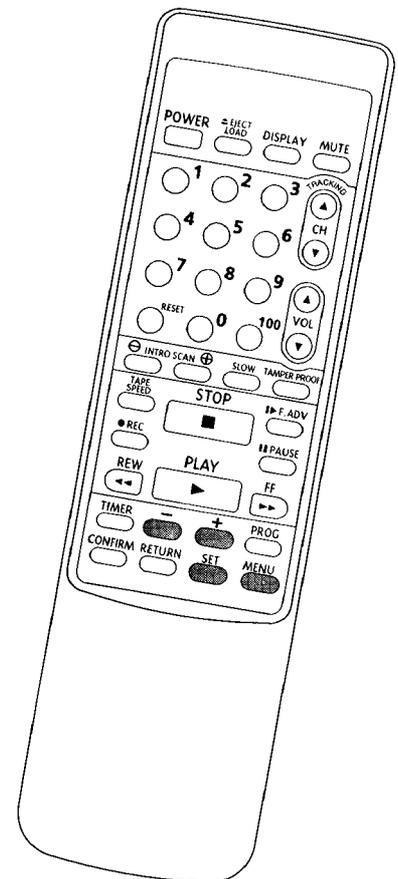
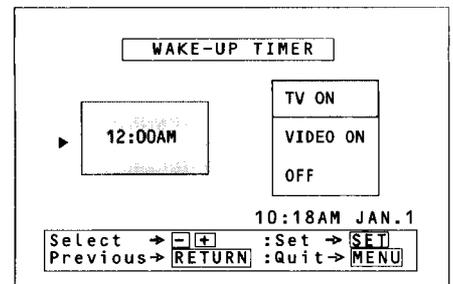
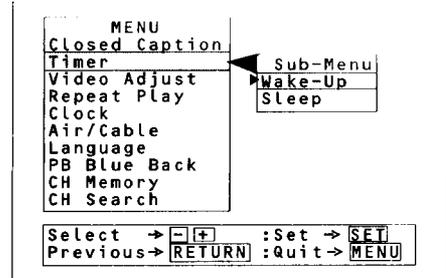
1. Press MENU on the remote to display the MENU.
2. Press + or - to highlight the Timer feature.
3. Press SET to activate the Timer Sub-menu.
4. Use the - or + button on the remote to highlight Wake-Up.
5. Press SET to display the WAKE-UP TIMER menu.
6. Use the - and + buttons on the remote to enter the hour including AM or PM. Press SET to activate the minute setting and use the - and + buttons to set the minutes.
7. Press SET to enter the time.
8. Use the - and + buttons on the remote to highlight the desired wake up mode. The wake-up timer will turn on the TV/VCR one time at the set time. After 120 minutes, the TV/VCR will turn itself off unless a function button is pressed.
  - Highlight TV ON and press SET to have the TV come on at the set time.
  - Highlight VIDEO ON and press SET to have the VCR come on and begin playing a tape at the set time. If there is no tape in the TV/VCR, the TV will turn on.

The POWER/WAKE indicator on the TV/VCR will change from red to orange when the wake-up timer is set.

### To Cancel the Wake-Up Timer

Display the WAKE-UP TIMER menu, highlight Off, and press SET.

The POWER/WAKE indicator on the TV/VCR will change from orange to red.

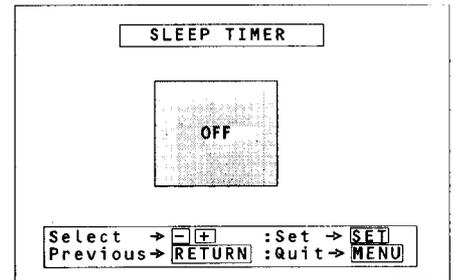
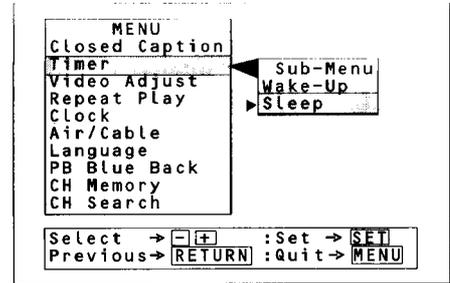


# Using the TV/VCR Features

## Sleep Timer

The sleep timer automatically turns the TV/VCR off after 30, 60, 90, or 120 minutes.

1. Press MENU on the remote to display the MENU.
2. Press + or - to highlight the Timer feature.
3. Press SET to activate the Timer Sub-menu.
4. Use the - and + buttons on the remote to highlight Sleep.
5. Press SET to display the SLEEP TIMER menu.
6. Use the - and + buttons on the remote to select the amount of time the TV/VCR should remain on — 30, 60, 90, or 120 minutes.
7. Press SET to start the sleep timer and remove the menu from the screen.



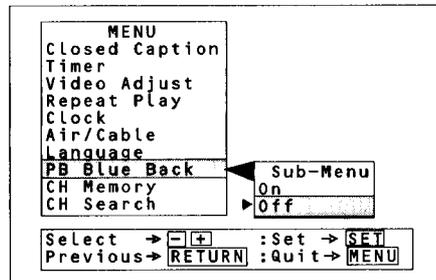
### To Cancel the Sleep Timer

Display the SLEEP TIMER menu, use + and - on the remote to select Off, and press SET.

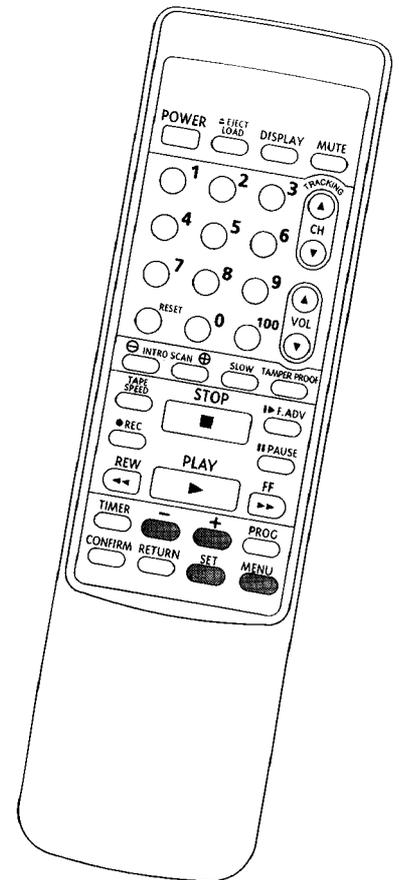
## Noise Elimination Feature — PB (Playback) Blue Background

This feature allows you to eliminate monitor noises and mute the sound during playback of unrecorded portions of a tape.

1. Press MENU on the remote to display the MENU.

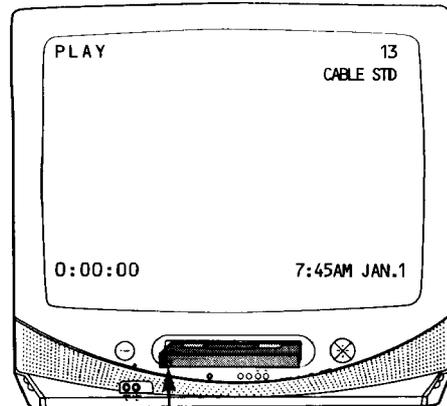


2. Press + or - to highlight the PB Blue Back feature.
3. Press SET to activate the PB Blue Back Sub-Menu.
4. Use the - and + buttons on the remote to select On or Off.
  - Highlight On and press SET to activate the PB blue background feature.
  - Highlight Off and press SET to turn off the PB blue background feature.



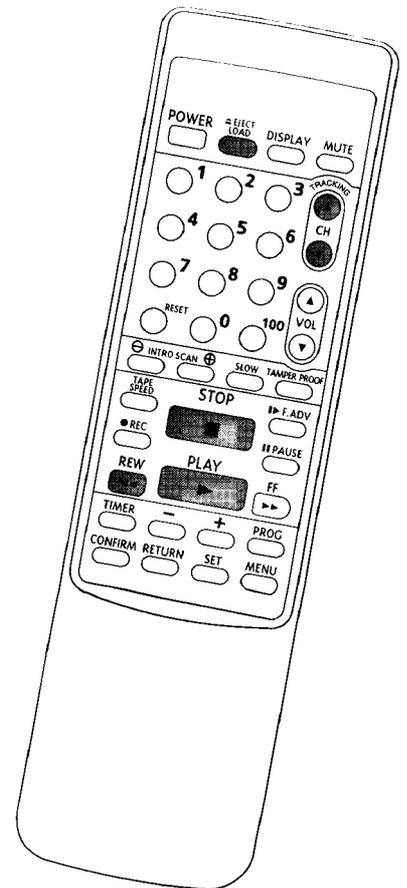
# Operating Instructions

## To Play a Tape



Safety Tab

1. Insert a tape in the TV/VCR.  
TV/VCR automatically turns on. If the safety tab has been removed, the tape automatically begins playback.
2. Press **PLAY** on the remote or **▶** on the TV/VCR, if necessary.  
**PLAY** and the time counter appear on the screen.
3. If necessary, press **TRACKING** up or down on the remote or **CH** up or down on the TV/VCR to remove any streaks from the picture. *Details are on page 15.*
4. Press **STOP** on the remote or **▲** on the TV/VCR to stop playback.
5. Press **REW** on remote or **◀◀** on the TV/VCR to rewind the tape. The TV/VCR will automatically rewind the tape if it reaches the end of the tape during playback.
6. Press **▲** again on the TV/VCR or **EJECT•LOAD** on the remote to eject the tape once it is completely rewound.



## Using the Playback Features

### Pause for Stop Action

This feature stops the tape in action and allows you to examine the details of the scene. Stop action works well for tapes recorded in the SP or EP speed.

1. Press PAUSE on the remote during playback to stop the action. STILL appears on the screen.  
The TV/VCR will automatically switch from pause to playback after a few minutes to prevent tape wear.
2. Press PAUSE or PLAY on the remote or ► on the TV/VCR to return to playback.

### Frame Advance

Frame advance lets you view one frame after another. Frame advance works best for tapes recorded in the SP or EP speed.

1. Press PAUSE on the remote during playback to pause the action.
2. Press F.ADV on the remote each time you want to view a frame of the scene.  
Press and hold F.ADV for continuous frame advance.
3. Press PAUSE or PLAY on the remote or ► on the TV/VCR to return to playback.

### Slow Motion

You can view the picture in slow motion during play. Sound is turned off during slow-motion playback. Slow motion works well in the SP or EP speed.

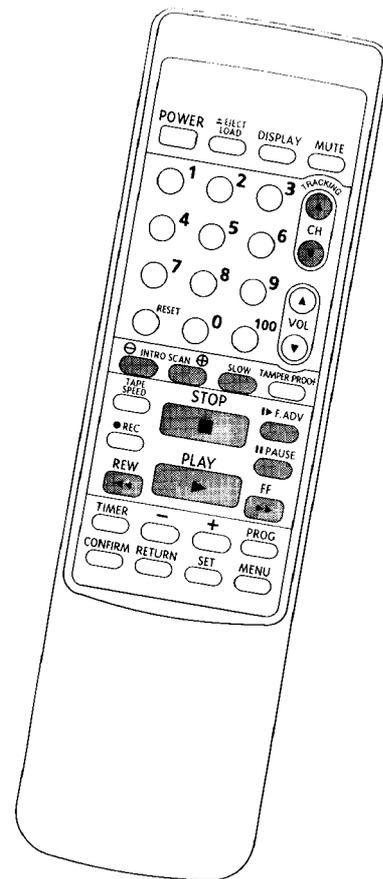
1. Press SLOW during playback to begin slow motion.
  - Press ⊕ to increase the speed or ⊖ to decrease the slow-motion speed.
2. Use TRACKING up or down to remove any streaks from the picture.
3. Press PLAY on the remote or ► on the TV/VCR to return to playback.  
The TV/VCR will automatically switch from slow-motion playback to play after a few minutes to prevent tape wear.

### Picture Search

You can visually search a picture during playback using the fast forward and rewind buttons. Sound is turned off during picture search. The picture is best for tapes recorded in the SP or EP speed.

#### Fast Forward Search

1. Press FF on the remote or ►► on the TV/VCR to search forward or REW on the remote or ◀◀ on the TV/VCR to search in reverse at a faster-than-normal speed.  
Press the button again to search at a faster speed.
2. Press PLAY on the remote or ► on the TV/VCR to return to playback.



# Using the Playback Features

## Automatic Tracking

The TV/VCR has automatic tracking which adjusts the picture when playing a tape that was recorded on another VCR. Automatic tracking is turned on whenever a tape is inserted.

- To manually turn on automatic tracking, press and hold both of the TRACKING buttons on the remote.

## Manual Tracking

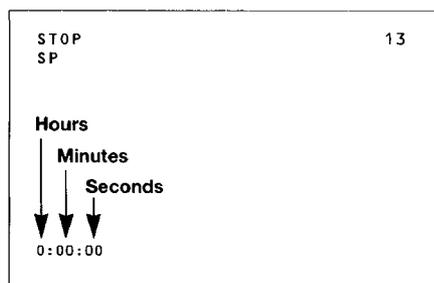
Occasionally, you may need to manually adjust tracking on a tape recorded on a different VCR or camcorder. Tracking is used when playing a tape. It has no effect during recording.

- When streaks or snow appear in the picture during normal playback, press TRACKING up or down on the remote or CH up or down on the front of the TV/VCR for the best possible picture.

## Time Counter

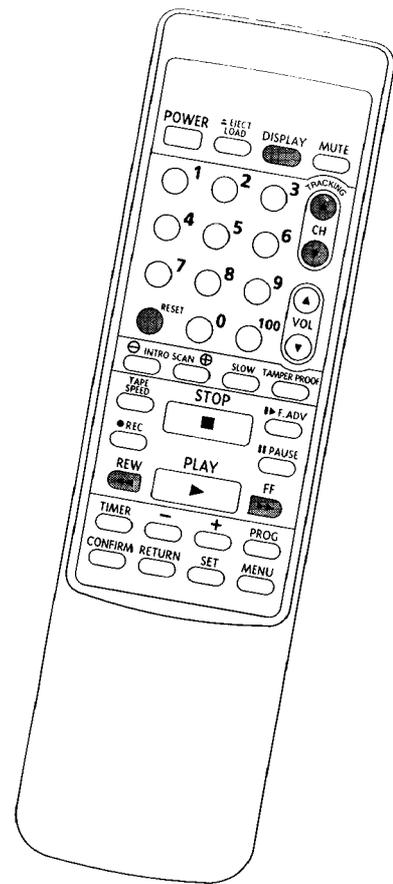
The time counter shows the actual time it takes to record a program or play back a segment of a pre-recorded tape. It helps locate the beginning or end of programs you taped. The time counter resets to 0:00:00 whenever RESET on the remote is pressed. For example, if a 30-minute program was recorded at the beginning of the tape and you wanted to record another program after it, you would:

1. Insert the pre-recorded tape. Press REW on the remote or ◀◀ on the TV/VCR to make sure the tape is rewound to the beginning.
2. Press DISPLAY on the remote twice to display the time counter, function, tape speed, and channel number.



3. Press RESET on the remote to reset the time counter to 0:00:00.
4. Press FF on the remote or ▶▶ on the TV/VCR to fast forward the tape until the time counter reads 0:30:00.  
This is the approximate end of the program and you can begin recording at this spot.

5. Press DISPLAY on the remote to remove the time counter from the screen.

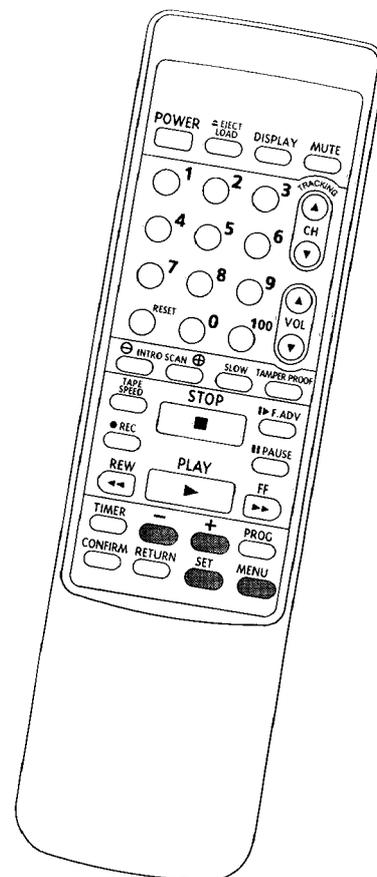
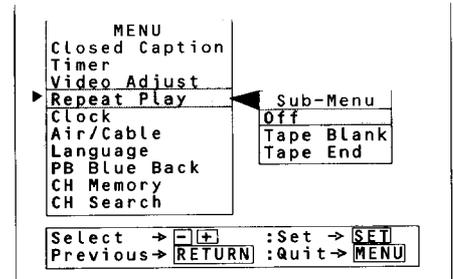


# Using the Playback Features

## Repeat Play Feature

This feature lets you play a tape over and over. When Repeat Play Tape Blank or Tape End is selected, the TV/VCR will play the tape to a portion of blank tape or the end of the tape, automatically rewind the tape, and play the tape again.

1. Press MENU on the remote to display the MENU.
2. Press + or - to highlight the Repeat Play feature.
3. Press SET to activate the Repeat Play Sub-menu.
4. Use the - and + buttons on the remote to highlight the desired function.
  - Highlight Off and press SET to turn off the auto repeat feature.
  - Highlight Tape Blank and press SET to have the VCR play until it reaches a blank portion on the tape, automatically rewind the tape, and then play up to the blank portion again.
  - Highlight Tape End and press SET to have the VCR play until the end of the tape, automatically rewind the tape, and play it again.



# Using the Playback Features

## Intro Scan Index Playback

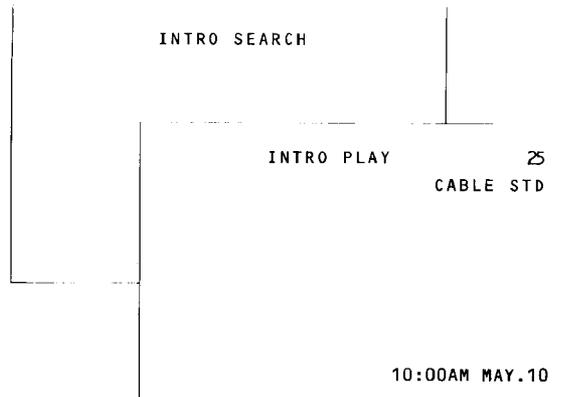
The TV/VCR automatically records index marks and program information on the tape each time you begin recording. During playback you can locate the program you want to play by the number of index marks.

### To Select Intro Scan Index Playback

1. Insert the prerecorded tape and press **STOP** on the remote or **▲** on the TV/VCR.
2. Press **INTRO SCAN**  $\ominus$  on the remote to scan in reverse or  $\oplus$  to scan forward to start intro search. **INTRO SEARCH** will be displayed on the TV screen.

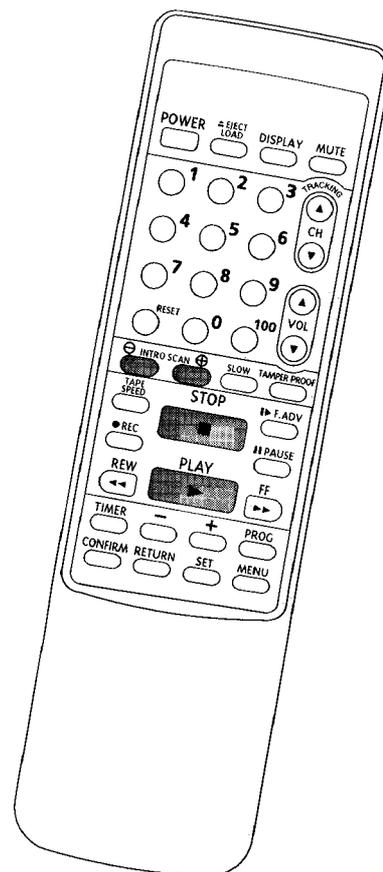
When the TV/VCR locates an index mark, it will stop and play a few seconds of the program following the mark. **INTRO PLAY** and any program information, registered channel number, starting date, and starting time that was recorded will appear on the TV screen.

3. Press **PLAY** on the remote or **▶** on the TV/VCR to stop searching and begin playback at that point.



### To Stop Intro Scan

- Press **STOP** on the remote or **▲** on the TV/VCR to stop the search.



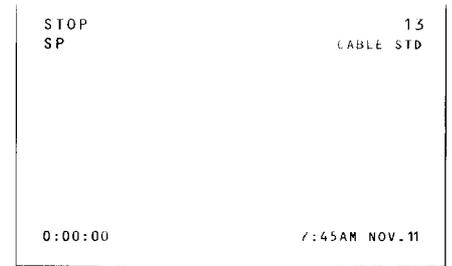
# Recording Features

## Recording Speeds

Press TAPE SPEED on the remote to select a recording speed.

Cassette	Recording Time	
	SP	EP
T-120	2Hr	6Hr
T-160	2Hr 40Min	8Hr

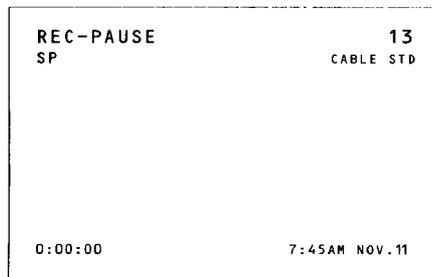
Tape Speed Indicator



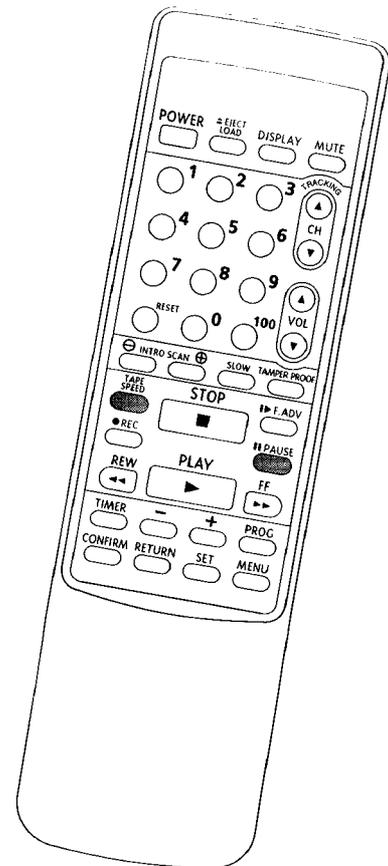
- SP (Standard Play) gives the best quality recording. That is why most pre-recorded, rental tapes are recorded in SP. Fewer programs can be recorded on the tape. Special effects in playback, such as pause, frame advance, slow, and search work well in SP.
- EP (Extended Play) gives three times the recording time of tapes recorded in SP. Special effects in playback, such as pause, frame advance, slow, and search work well in EP.

## Recording Pause

This feature allows you to prevent recording short passages of unwanted material.



- Press PAUSE on the remote during recording to stop and start recording. REC-PAUSE appears on the TV screen. The TV/VCR will automatically switch from pause to stop after a few minutes.



## Types of Recordings

Your VCR provides different types of recording. These types are explained in the following sections:

**Basic Recording — Operating Instructions**

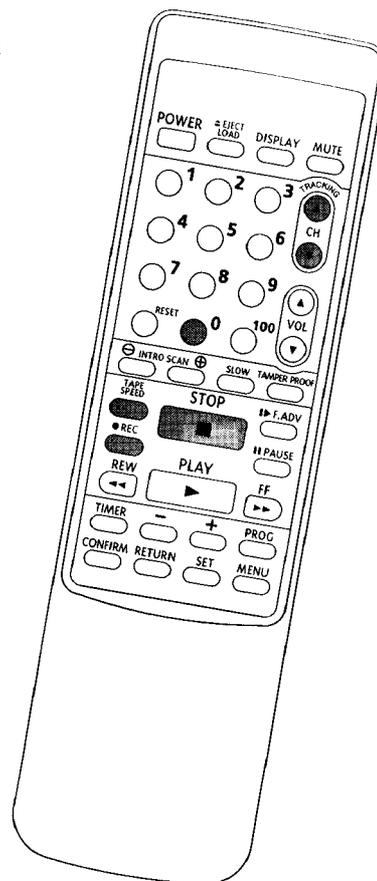
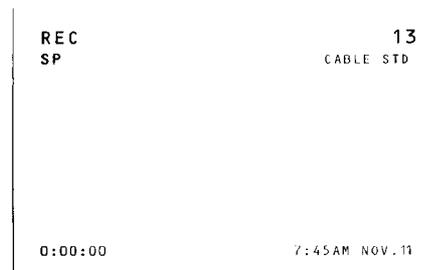
**Recording While You're Away — Timer Recording**

**Copying and Editing Tapes**

## Basic Recording – Operating Instructions

### To Make a Recording

1. Insert a tape with safety tab in place.
2. Use TAPE SPEED on the remote to select a recording speed.  
The tape speed indicator appears on the screen.
3. Select the channel to be recorded.  
If recording from the AUDIO/VIDEO IN jacks, press 00 or CH up or down on the remote to select AV.  
AV appears on the screen.
4. Press REC to begin recording.  
The REC indicator on the front of the TV/VCR turns on during recording and REC appears on the screen.
5. Press ▲ on the TV/VCR or STOP on the remote when the recording is finished.



# Recording While You're Away — Timer Recording

Timer recording lets you program the TV/VCR to record up to five different programs within a one month period. Before setting the timer, make sure that:

- The clock is set correctly.
- A tape with safety tab has been inserted with enough tape to record the program(s).

## Setting a Timer Recording

1. Press the PROG button on the remote to display the REC RESERVATION menu.
2. Use the - and + buttons on the remote to enter the CH (channel number). If recording from the AUDIO/VIDEO IN jacks, select line input (AV) instead of a channel.
3. Press SET on the remote to highlight and activate the DATE Sub-menu.
4. Use the - and + buttons to highlight the type of program.
  - Highlight ONE TIME and press SET to record a single program once. Then use the - and + buttons to enter the date of the recording.
  - Highlight DAILY and press SET to record a program at the same time every day.
  - Highlight WEEKLY and press SET to record a program at the same time once a week. Then use the - and + buttons to select the day of the week.
  - Highlight MON-FRI and press SET to record a program at the same time Monday through Friday.
  - Highlight MON-SAT and press SET to record a program at the same time Monday through Saturday.

To correct an entry, press RETURN to highlight the desired function. Then use the - and + buttons to change.

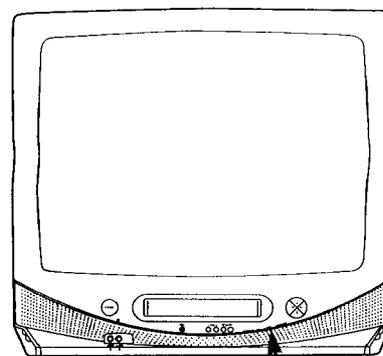
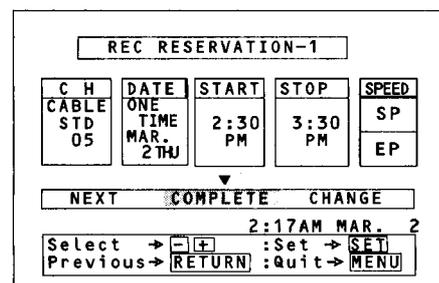
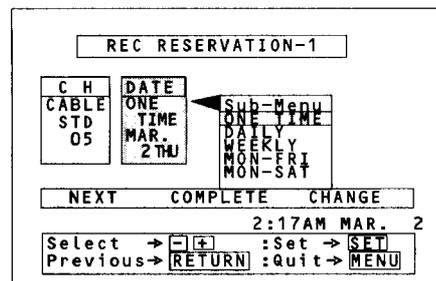
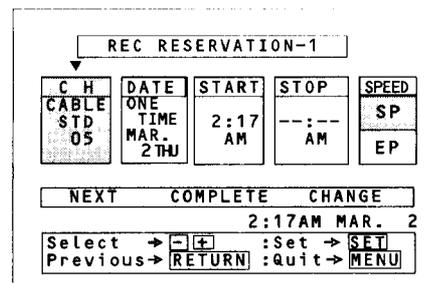
5. Press SET to highlight START and use the - and + buttons to enter the hour including AM or PM. Press SET and use the - and + buttons to enter the minutes.
6. Press SET on the remote to highlight STOP and use the - and + buttons to enter the hour. Press SET and use the - and + buttons to enter the minutes.
7. Press SET to highlight SPEED and use the - and + buttons to select a recording speed (SP or EP).
8. Press SET to activate the function bar and use the - and + buttons to highlight the desired function.
  - Highlight NEXT and press SET to set another timer recording.
  - Highlight COMPLETE and press SET to enter your program.
  - Highlight CHANGE and press SET to change or correct your timer recording.
9. **Press TIMER to set timer recording.** The **TIMER** indicator lights in the front panel.

The **TIMER** indicator will flash and **NO TAPE** will appear on the screen if there is no cassette in the TV/VCR.

If the safety tab is missing from the cassette, the TV/VCR will eject the cassette.

VCR functions will not operate while the **TIMER** light is on.

10. **If using a cable box, leave it turned on and tuned to the channel you want to record.**

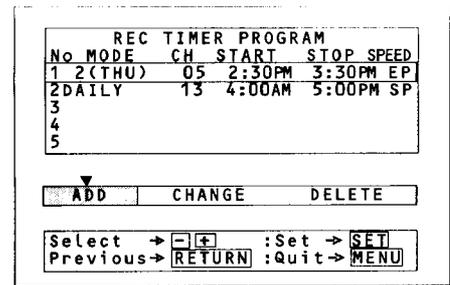


TIMER Indicator

# Recording While You're Away (Timer Recording)

## Changing or Deleting Timer Recordings

1. Press CONFIRM on the remote to display the REC TIMER PROGRAM menu.
2. Use the - and + buttons on the remote to highlight ADD, CHANGE, or DELETE.
  - Highlight ADD and press SET to add a recording.
  - Highlight CHANGE and press SET to change or correct a timer recording. Use the - and + buttons on the remote to highlight the program you wish to change. Then press SET to display the program menu for editing.
  - Highlight DELETE and press SET to delete a program. Use the - and + buttons on the remote to highlight the program you wish to delete. Then press SET to delete the program.
3. When you are finished, press MENU or PROG on the remote to remove the menus from the TV screen.

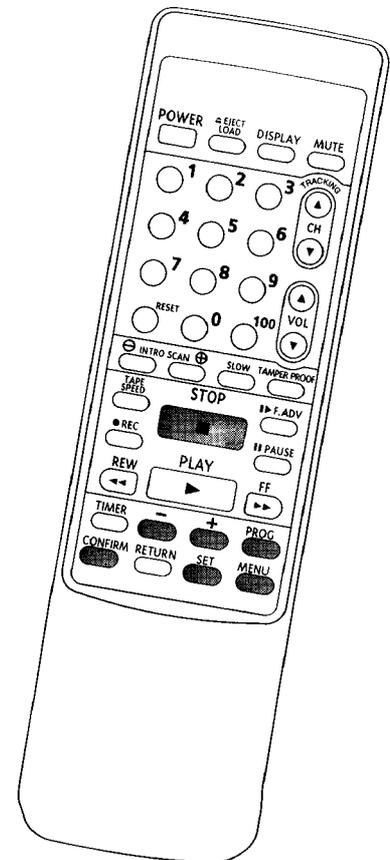


## Stopping A Timer Recording

TV/VCR: Press ▲.

Remote: Press STOP.

A timer program in progress will be erased. Only today's recording of a daily or weekly program is cancelled. The daily or weekly program remains in the timer.



# Copying and Editing Tapes

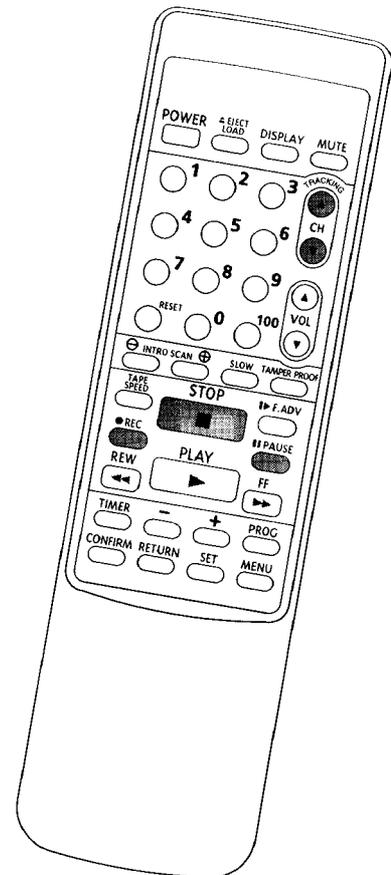
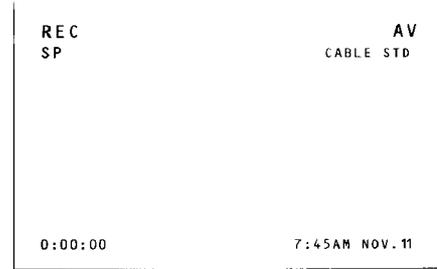
## Operating Instructions (Refer to hookup on page 27.)

**Caution:** The unauthorized recording of television programs and other materials may infringe the rights of others.

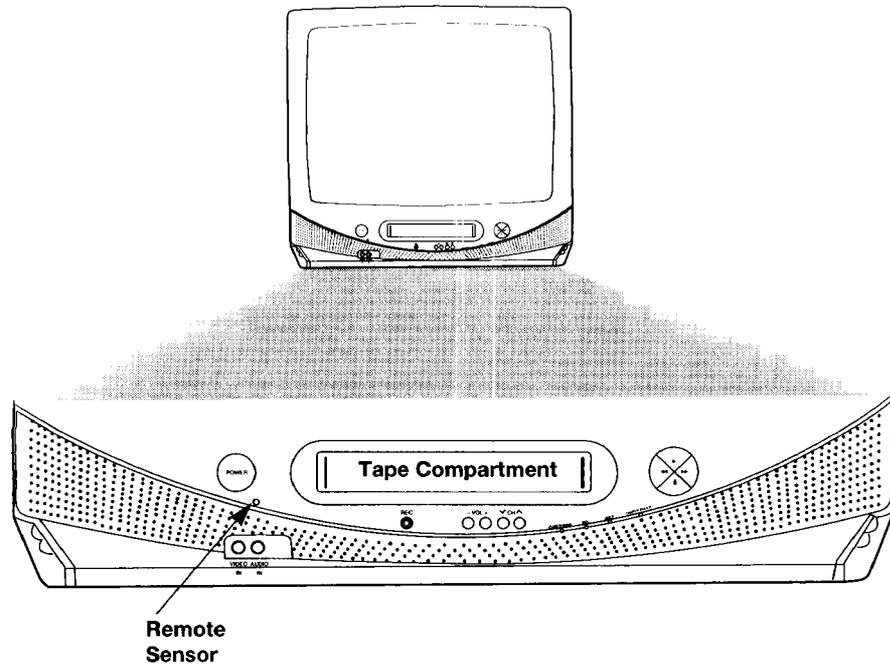
Use another VCR or camcorder as the playback VCR and the TV/VCR as the recording VCR.

1. Turn on the VCR or camcorder and the TV/VCR.
2. Press 00 on TV/VCR's remote to select the line input. AV appears on the screen.
3. Insert the tape you want to copy into the playback VCR or camcorder. Insert a blank tape with safety tab in place into the TV/VCR.
4. Start the playback VCR or camcorder playing. If the tape was not recorded on the playback VCR, streaks may appear and you may need to adjust tracking. When you reach the place you want to begin recording, place the playback VCR or camcorder in play pause.
5. Press REC, then PAUSE, on the TV/VCR's remote.
6. Press PAUSE on **both** the VCR or camcorder and the TV/VCR's remote **at the same time** to begin copying the tape.
7. Edit out segments that you do not want to copy by pressing PAUSE on the TV/VCR's remote to stop copying the tape. Then, locate the next segment you want to copy on the playback VCR or camcorder and place it in play pause. Press PAUSE **at the same time on both** the VCR or camcorder and the TV/VCR's remote to resume copying.
8. Press STOP (▲) on **both** the VCR or camcorder and TV/VCR when you are finished.

Remember to press CH up or down to select a channel on the TV/VCR for normal TV viewing.



## Location of Controls — Front Panel



### **CH (Channel) Up and Down**

Selects next higher or lower channel in the TV/VCR's channel memory.  
Used for tracking when a tape is playing.

### **▶▶ (Fast-Forward)**

Fast forwards the tape when the VCR is stopped.  
Searches the picture forward during playback.

### **▶ (Play)**

Plays a tape.

### **POWER**

Turns the TV/VCR on or off.

### **POWER/WAKE Indicator**

Lights red when power is on and turns to orange when the wake-up timer is set.

### **REC (Record) Button and Indicator**

Press the REC button to start recording.  
REC indicator lights during recording.

### **Remote Sensor**

Receives signals from the remote. Aim remote at this sensor with no objects between them.

### **◀◀ (Rewind)**

Rewinds the tape when the TV/VCR is stopped.  
Searches the picture in reverse during playback.

### **▲ (Stop/Eject)**

Stops normal functions — such as record, playback, rewind, fast-forward, or pause.  
Press when the TV/VCR is stopped to eject the cassette.

### **TAMPER PROOF Indicator**

Lights when tamper proof lock is set and flashes when lock is set and any button is pressed.

### **TIMER Indicator**

Lights when timer program has been set.  
Flashes when a timer program has been set and the TIMER button has been pressed with no cassette inserted.

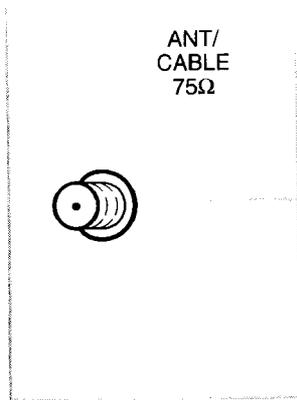
### **VIDEO IN and AUDIO IN Jacks**

Receives signals from a component, such as a VCR or camcorder, when it is connected to these jacks. To record from these jacks, display AV on the screen using CH up or down or press 00 on the remote.

### **VOL (Volume) Down and Up**

Press to lower or raise the sound.

## Location of Controls — Back Panel



**ANT/CABLE 75Ω (Antenna) Connector**  
Receives the signal from an antenna or cable system when attached.

## Choosing a Hookup

**Answer the questions to choose the hookup for your TV/VCR.**

### 1. How do you receive your TV signals?

Choose one answer from below.

- A. Antenna – Turn to page 25.
- B. Cable System – Go to question 2.

### 2. What type of Cable-TV system\* do you have?

Choose one answer from below.

- A. Cable without a cable box – Turn to page 25.
- B. Cable box to unscramble all the channels – Turn to page 26.
- C. Cable box to unscramble only pay channels, such as HBO, Showtime, Cinemax, etc. – Turn to page 26.

\*You may need to contact your local cable company for assistance.

## Optional Hookup

**To hook up a VCR or camcorder for copying tapes — Turn to page 27.**

# Antenna or Cable System Without a Cable Box

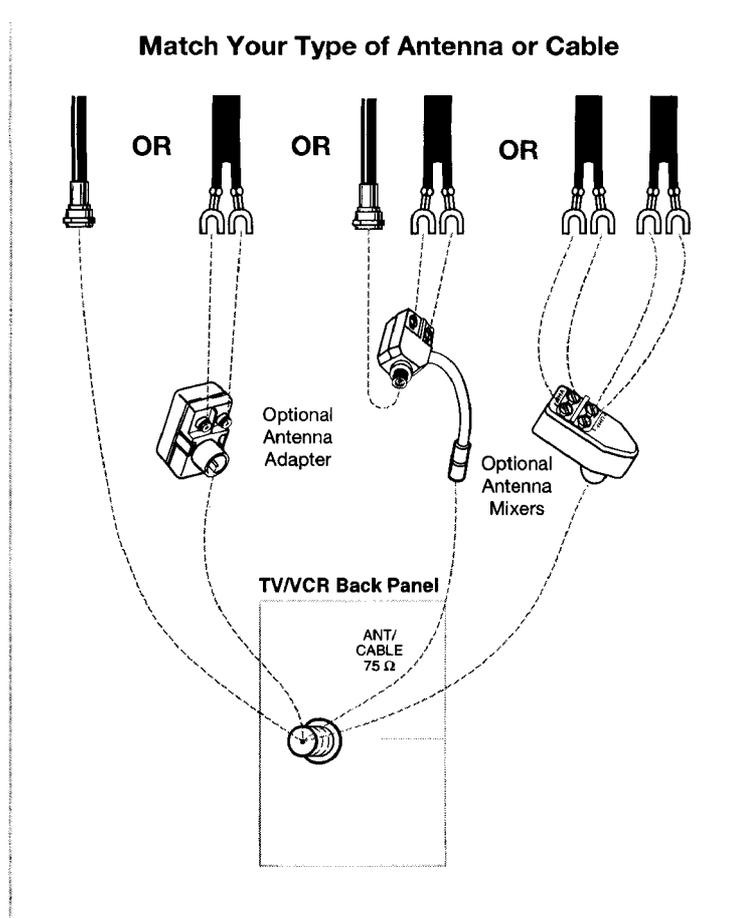
## Antenna or Cable System Without a Cable Box

**1. Connect as shown.**

This connection may require additional accessories not provided.

**2. Plug in TV/VCR's power cord.**

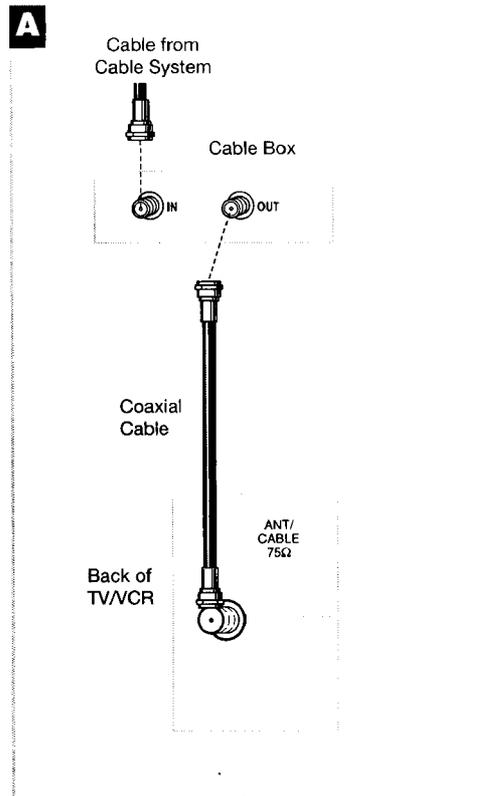
**3. Turn to page 2 for "Setting Up the TV/VCR."**



## Cable System With Cable Box

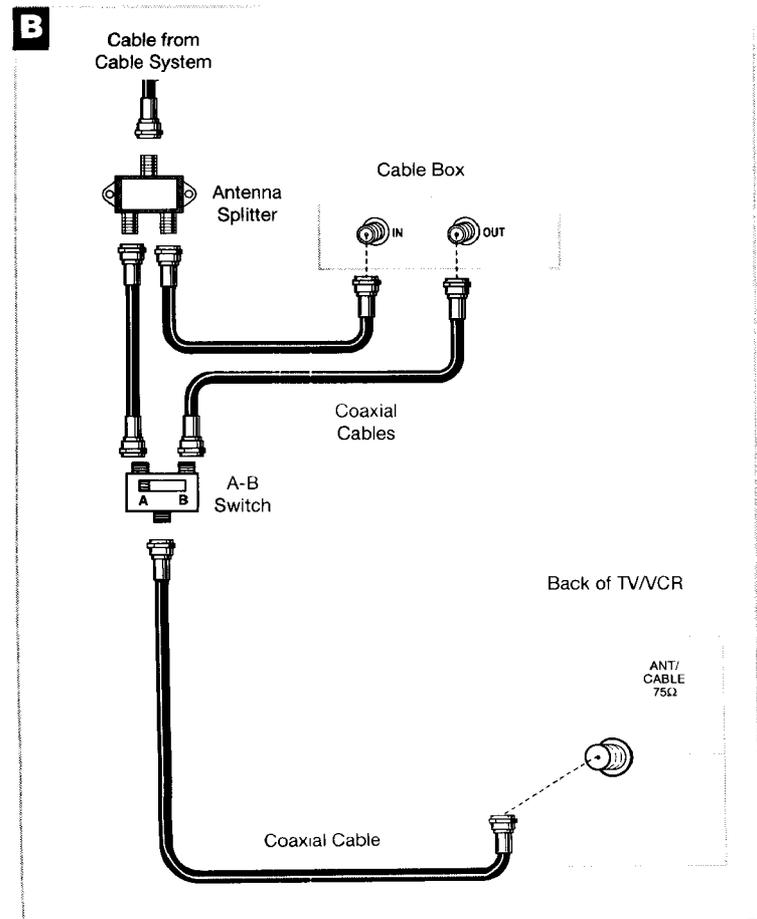
### A. Cable Box Required to Unscramble All Channels

1. Connect as shown.  
This connection may require additional accessories not provided.
2. Plug in power cords of TV/VCR and cable box.
3. Turn to page 2 for "Setting Up the TV/VCR."



### B. Cable Box Required to Unscramble Only Pay Channels

1. Connect as shown.  
This connection requires additional accessories not provided.
2. Plug in power cords of TV/VCR and cable box.
3. Operation  
Place the A-B switch in the B position to watch premium channels. Place the A-B switch in the A position to watch other channels when cable box is not needed.
4. Turn to page 2 for "Setting Up the TV/VCR."



# Connecting a VCR or Camcorder for Copying Tapes

## A. VCR for Tape Copying

1. Connect as shown.

This connection requires additional accessories not provided.

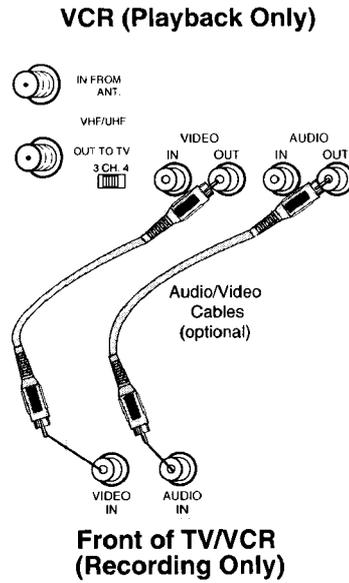
2. Plug in power cords of VCR and TV/VCR.

3. Turn to page 22 for "Copying and Editing Tapes."

Press CH up or down or enter 00 using the number buttons on the remote to select the AV (audio/video) input on the TV/VCR to receive the signal from the VCR.

If your VCR has stereo AUDIO OUT jacks, connect the audio cable to the jack labeled MONO. If neither jack is labeled MONO, you may need a Y-adaptor to hear both channels.

**A**



## B. Camcorder for Tape Copying

1. Connect as shown.

This connection requires additional accessories not provided.

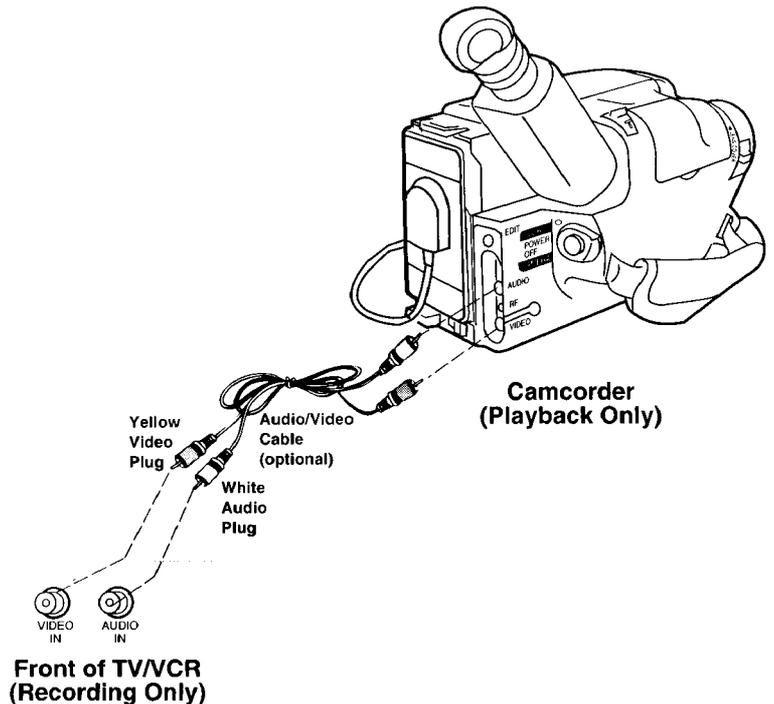
2. Plug in TV/VCR's power cord.

3. Turn to page 22 for "Copying and Editing Tapes."

Press CH up or down or enter 00 using the number buttons on the remote to select the AV (audio/video) input on the TV/VCR to receive the signal from the camcorder.

If your camcorder has stereo AUDIO OUT jacks, you may need a Y-adaptor to hear both channels.

**B**



Caution: The unauthorized recording of television programs and other materials may infringe the rights of others.

## Trouble Checks

Sometimes problems can be easily solved by checking a few basic things. Check below before you call for help or take your TV/VCR to an Authorized RCA VCR Servicenter.

Trouble	Here's what to try:
No power	<ul style="list-style-type: none"> <li>• Plug TV/VCR into an operating outlet.</li> <li>• Check connections.</li> </ul>
TV/VCR does not respond to remote	<ul style="list-style-type: none"> <li>• Aim remote at TV/VCR's remote sensor with no objects between them.</li> <li>• Change batteries.</li> <li>• Tamper proof lock is set. Press TAMPER PROOF button on remote for several seconds until TAMPER PROOF indicator turns off. <i>See page 8.</i></li> </ul>
Poor or no picture for normal TV viewing	<ul style="list-style-type: none"> <li>• Switch TV to an active channel.</li> <li>• Check antenna connections.</li> <li>• Check video adjustments. <i>See page 9.</i></li> <li>• Make sure the line input (AV) is not selected. Press CH up or down to select a channel on the TV/VCR.</li> </ul>
No sound	<ul style="list-style-type: none"> <li>• Press VOL up to increase sound.</li> <li>• Sound has been muted. Press VOL up or MUTE on remote.</li> </ul>
Snow or streaks in picture or no picture during playback	<ul style="list-style-type: none"> <li>• Check tape — it may be worn out or of poor quality. Try another tape.</li> <li>• Some snow/streaks are normal during search and stop action playback.</li> <li>• Press one of the TRACKING buttons on the remote or CH buttons on the TV/VCR to move the streaks up or down and out of the picture.</li> </ul>
Will not record or play	<ul style="list-style-type: none"> <li>• No cassette in TV/VCR.</li> <li>• Eject and re-insert cassette.</li> <li>• Broken tape — try another cassette.</li> <li>• Safety tab removed from cassette — TV/VCR will not record.</li> <li>• TV/VCR is in pause mode. Press PAUSE on the remote.</li> </ul>
Cannot insert or eject tape	<ul style="list-style-type: none"> <li>• Insert cassette with window facing up and safety tab facing out.</li> <li>• To remove cassette, TV/VCR must be connected to working outlet.</li> <li>• Turn POWER off and then on before trying to insert or remove cassette.</li> <li>• Cassette will be ejected when safety tab has been removed from cassette and timer recording has been set.</li> </ul>
Time counter not working	<ul style="list-style-type: none"> <li>• Press DISPLAY on remote to display time counter on screen. <i>See page 15.</i></li> <li>• 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.</li> <li>• A minus (-) will appear in front of the time if you rewind the tape farther back than a counter reading of 0:00:00.</li> </ul>
TV/VCR does not respond to any button or control on TV/VCR or remote.	<ul style="list-style-type: none"> <li>• Tamper proof lock feature turned on. Press and hold TAMPER PROOF button on remote to turn off. TAMPER PROOF indicator turns off on front of TV/VCR. <i>See page 8.</i></li> </ul>
Rewind does not operate	<ul style="list-style-type: none"> <li>• Tape already rewound.</li> </ul>

# Trouble Checks

## Trouble

## Here's what to try:

Timer recording not made or wrong program recorded

- Timer not set. Press **TIMER** to set the TV/VCR for a timer recording.
- Program entered incorrectly (wrong channel or times).
- Cable box was not turned on at time recording was to begin.
- Power interruption.
- Check to see if time and date are correct – including AM/PM.
- Program exceeded tape's length or tape was not rewound beforehand.
- No tape in TV/VCR, or cassette ejected if safety tab broken off.

Clock shows incorrect time or date

- Power interruption.
- Clock was not set accurately (check AM/PM and date).

TV/VCR makes noise when stopped

- TV/VCR is removing tape from heads. This is normal. The head cylinder inside the TV/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 antenna or cable connections.
- Check Air Cable Sub-Menu setting. *See page 3.*

Cannot see closed captions on screen

- Closed caption function must be turned on. *See page 10.*
- Closed captions not being broadcasts by the station. *See page 10.*

Box appears on screen or screen turns blank

- One of the closed caption text features has been selected. *See page 10.*

**TIMER** indicator flashing on front of TV/VCR

- Timer program entered and **TIMER** is pressed with no cassette in TV/VCR.
- No VCR function will operate when timer has been set. Press **TIMER ON/OFF** to turn off timer.

Tape plays over and over

- Repeat play feature turned on. *See page 16.*

TV/VCR turns off automatically

- Sleep timer turned on. Press **POWER** to turn TV/VCR back on. *See page 12.*

TV/VCR turns on automatically

- Wake up timer (alarm) turned on. *See page 11.*

Screen turns blue

- Noise elimination blue background feature turned on. *See page 12.*

Cannot change TV channel

- Recording in progress. Cannot change channels.

Cannot watch one channel while recording another

- TV/VCR only has one tuner. You can only watch and record one channel at a time.

TV channel changes automatically

- Timer recording starts. TV/VCR will switch to channel set for timer recording.

Tape plays back in slow motion

- Slow-motion playback turned on. Press **PLAY** to return to normal playback.

## **Cleaning the TV/VCR**

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your TV/VCR. Remove dust from the ventilation holes 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 non-abrasive, anti-static cleaner and polisher.

## **Specifications**

<b>Picture Tube</b>	25-inch
<b>Format:</b>	VHS
<b>Record/Playback System:</b>	Video: 4-Head Audio Track: One
<b>Video Signal System:</b>	EIA standard: NTSC color
<b>Antenna:</b>	75-ohm external VHF/UHF combined antenna terminal
<b>Tuner:</b>	USA: 181 channel tuning capability* (125 cable channels)
<b>Type:</b>	AutoProgramming frequency synthesis
<b>Power Requirement:</b>	120V AC, 60 Hz
<b>Power Consumption:</b>	125 watts
<b>Dimensions:</b>	22-7/8 inches high (581 mm) 23-5/8 inches wide (622 mm) 19-5/8 inches deep (513 mm)
<b>Weight:</b>	74.8 pounds approximately (34 kg) approximately
<b>Operating Temperature Range:</b>	+41°F to +104°F
<b>Operating Humidity Range:</b>	10% to 75%

\* Check your cable company's compatibility requirements.

## Limited Warranty

### What your warranty covers:

- Any defect in material or workmanship.

### For how long after your purchase:

- Ninety days for labor charges.
- Two years for picture tube.
- One year for parts.

The warranty period for rental units begins with the first rental.

### What we will do:

- Pay any Authorized RCA VCR Servicenter the labor charges to repair your TV/VCR.
- Pay any Authorized RCA VCR Servicenter for the new or, at our option, rebuilt replacement parts required to repair your TV/VCR.

### How you get service:

- Take your TV/VCR to any Authorized RCA VCR Servicenter. To identify your nearest Authorized RCA VCR Servicenter, ask your dealer, look in the Yellow Pages, or call 1-800-336-1900.
- Show the service technician your evidence of purchase date.
- Pick up your TV/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 TV/VCR. Any additional information should be obtained from your Dealer.)
- Installation and related adjustments.
- Signal reception problems not caused by your TV/VCR.
- Damage from misuse or neglect.
- Cleaning of video/audio heads.
- Remote control batteries.
- A TV/VCR that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- A TV/VCR purchased or serviced outside the USA.
- Acts of God, such as but not limited to lightning charge.

### Product Registration:

- Please complete and mail the Product Registration Card packed with your TV/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 this 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 TV/VCR outside the United States:

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

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For your nearest Authorized Servicenter  
call toll-free in the U.S.A.

1-800-336-1900

If your TV/VCR needs service, please contact your dealer or  
the nearest servicenter 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**  
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