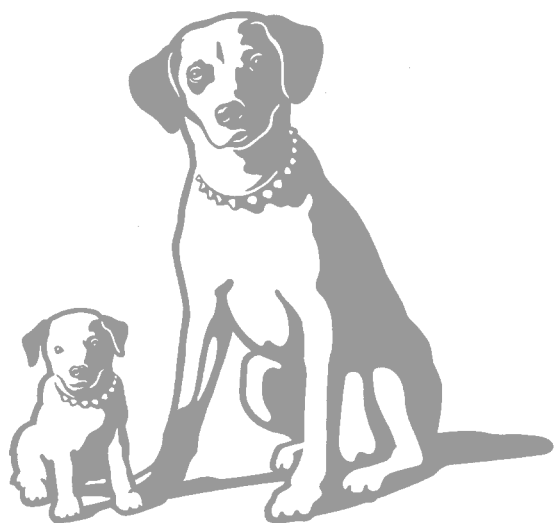


# USER'S GUIDE



TV/VCR COMBINATION

**TRENT**

# Important Information


**WARNING**

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


**WARNING**

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

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

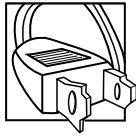


This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

## Cautions



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

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

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

If fixed(non-moving) images are left on the screen for long periods, they may be permanently imprinted on the screen. Such images include network logos, phone numbers, and video games. This damage is not covered by your warranty. Extended viewing of channels displaying these images should be avoided.

## 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 necessary.

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

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

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

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

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

\_\_\_\_\_

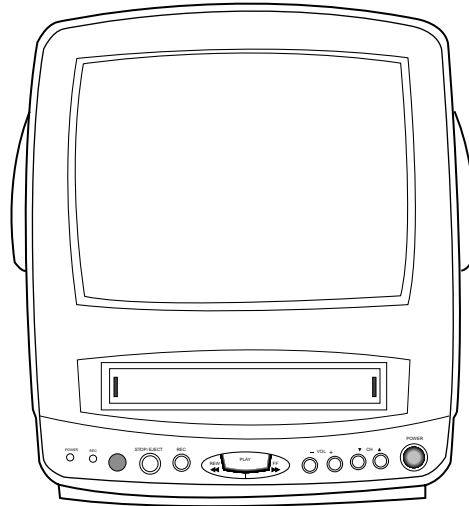
\_\_\_\_\_

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# Startup

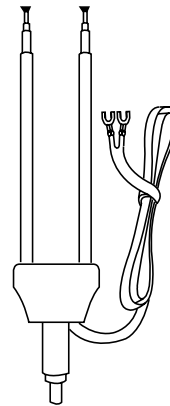
1. Check parts included with TV/VCR combination.  
Contact your dealer if any items are missing.



**TV/VCR combination**



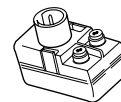
**Remote Control**



**Antenna**



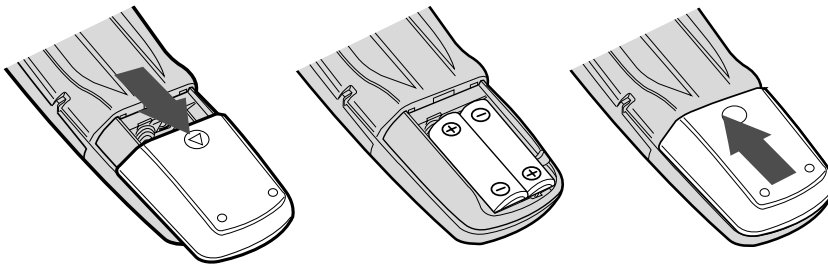
**DC car cord and AC cord**



**Antenna Adapter  
(300-75 Ohm)**

## Startup

2. Insert two AAA batteries in the remote control as shown.



3. Place your TV/VCR on a stable surface.

**CAUTION:** To reduce the risk of personal injury or damage to the TV/VCR, take care in selecting a stable surface or a strong steady stand and a location where the TV/VCR cannot be tipped over or easily pulled off, particularly by children. Do not attempt to carry or move this product with one hand. Grasp the TV/VCR with both hands, with the front of the TV/VCR against your body, to prevent it from slipping out of your grasp.

4. Connect antenna or cable-TV system.

Connect the supplied dipole antenna, a different home antenna, or a cable-TV system. *Details on page 27 and 28.*

5. Connect power cord to the TV/VCR.

Connect either the AC power cord or the DC car cord to the back of the TV/VCR. Then, if you chose the AC power cord, plug the other end into a 120-volt electrical outlet, or, if you chose the DC car cord, plug the other end into a 12- or 24-volt cigarette-lighter socket in your vehicle.

6. Turn on the TV/VCR.

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

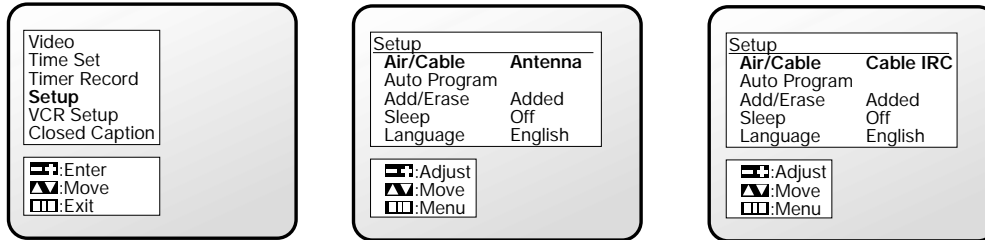
If moving the TV/VCR from a cold area to a warm area, moisture may develop inside the unit. If this happens, unplug the power cord and allow the TV/VCR to reach room temperature before playing a tape. This is especially important when using this unit in a vehicle where temperature changes can be dramatic.

## Startup

### 7. Set the Signal Type.

The first step in programming your TV/VCR is to select the signal source.

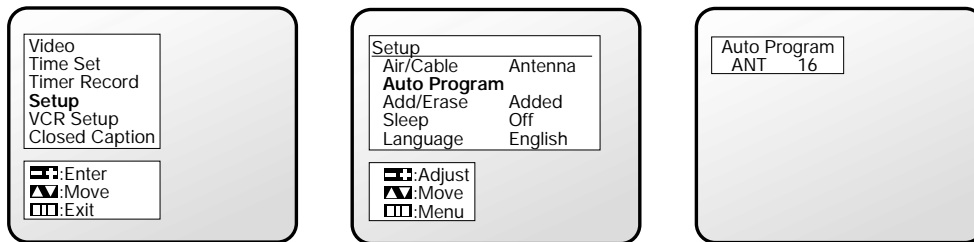
- A. Press MENU on the remote to display the main menu. Then press CH ▼ or ▲ until **Setup** is highlighted. Press VOL+ or - to display the **Setup** menu.
- B. From the **Setup** menu, using the VOL- or VOL+ buttons, select **Antenna** if your TV/VCR is connected to an antenna, or, depending on what type of cable you have, select **Cable STD**, **Cable HRC** or **Cable IRC**. If you are not sure what type of cable system you have, contact your cable company.



### 8. Program the channels into memory (Auto Program).

In order to automatically program channels into the TV/VCR's memory, you must have already selected the signal source (see step 6), and the antenna or cable system must be connected to the TV/VCR.

- A. Press MENU on the remote to display the main menu. Then press the CH ▼ or ▲ button until **Setup** is highlighted. Press VOL+ to display the **Setup** menu.
- B. From the **Setup** menu, press CH ▼ until **Auto Program** is highlighted.
- C. Press the VOL+ or - button to begin programming channels into memory. The TV/VCR places available channels in its memory. This may take a couple minutes. Press MENU if you want to interrupt this process and return to normal viewing. When the process is complete, press CH ▼ or ▲ to scan your newly programmed channels.



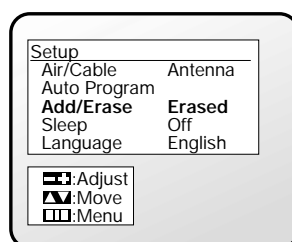
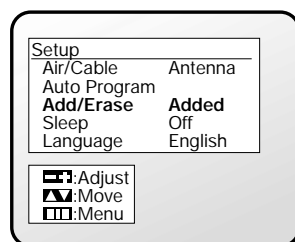
## Startup

### 9. Add or remove 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 removed can still be selected by pressing number buttons on the remote.

- A. Use the number buttons on the remote to select the channel you want to add or erase from memory.
- B. Press MENU on the remote to display the main menu, then use the CH▼ or ▲ button until **Setup** is highlighted. Press VOL+ to display the **Setup** menu.
- C. Press CH▼ until **Add/Erase** is highlighted.
- D. To add or erase the desired channel, press VOL+ or - until the display reads **Added** or **Erased**.
- E. Press MENU twice to remove the menu from the screen and return to normal viewing.

To add a 3-digit channel, such as channel 104, press the +100 button on the remote, followed by the next two digits, in this case "0" and "4".



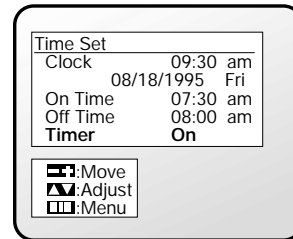
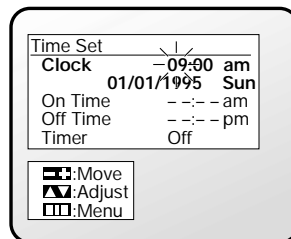
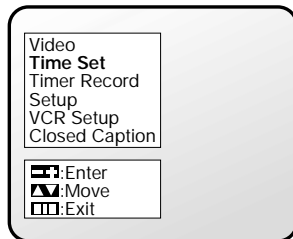
Note: The 100+ button on the remote works only when the TV/VCR is in cable mode. In antenna mode, the highest channel that can be tuned is channel 69.

## Startup

### 10. Set the Time and Date (Clock).

To record programs or to use the sleep timer, you must set the date and time (clock).

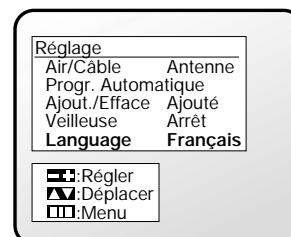
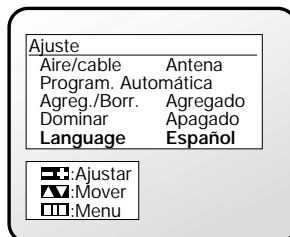
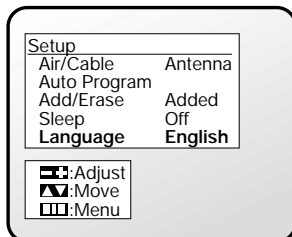
- A. Press MENU on the remote to display the main menu. Then press the CH▼ or ▲ button until **Time Set** is highlighted. Press VOL+ to display the **Time Set** menu.
- B. Press VOL+ to select the the part of the display you wish to adjust; then use the CH▼ or ▲ buttons to adjust the time and date. The day of the week will automatically appear when you enter the date.
  - Press VOL- to return to an incorrect entry; use CH▼ or ▲ to correct an entry.
- C. Press MENU on the remote to lock the time and date – this will also return you to the main menu. Press MENU once more to return to TV viewing.



### 11. Select the language.

You can choose to have your menus displayed in English, Spanish or French.

- A. Press MENU on the remote to display the main menu. Then press the CH▼ or ▲ button until **Setup** is highlighted. Press VOL+ to display the **Setup** menu.
- B. Press CH▼ until **Language** is highlighted.
- C. Press VOL+ or - to select the desired language.



## Startup

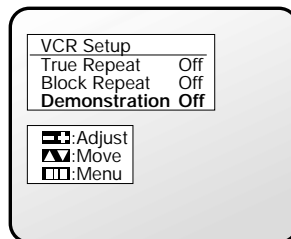
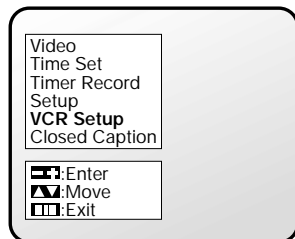
### 12. View the demonstration mode.

The demonstration mode displays all on-screen menus and programmable features.

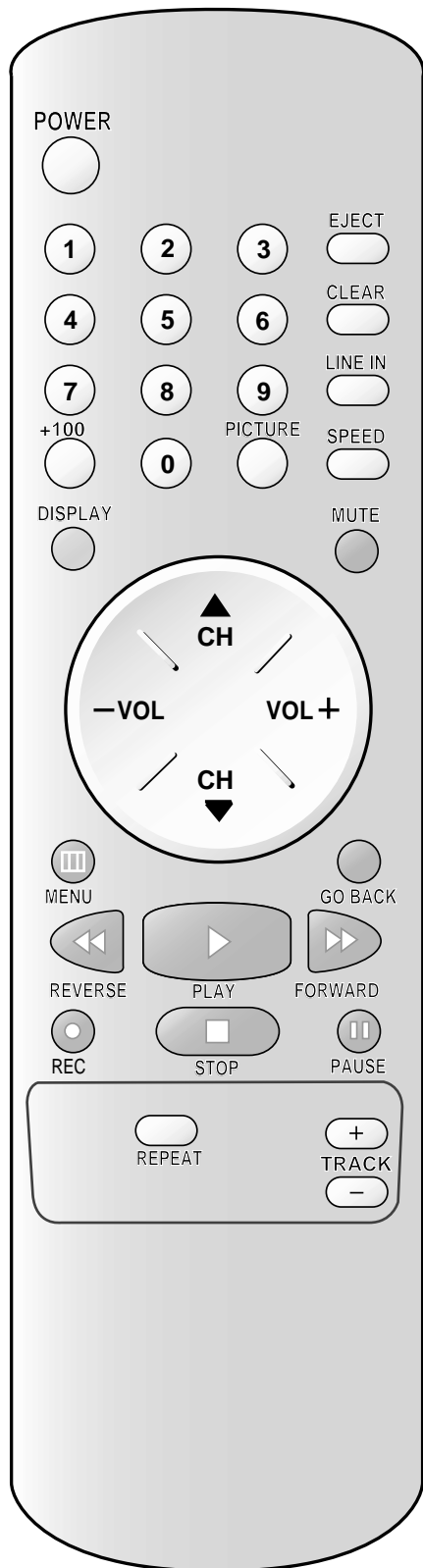
- A. Press MENU on the remote to display the main menu. Then press the CH▼ or ▲ button until **VCR Setup** is highlighted and press VOL+ or - to display the **VCR Setup** menu.
- B. Press CH▼ until **Demonstration** is highlighted and press VOL+ or - to choose **On**, activating the demonstration.

The TV/VCR will display each of the menus available in the system briefly. The entire demonstration cycle will continually repeat.

- C. To turn off the demonstration, repeat steps A and B, choosing **Off** in step B to deactivate the demonstration.



# Buttons



**CH  $\nabla$  and  $\blacktriangle$  (Channel up and down)**

Selects next higher or lower channel in channel memory. Selects and adjusts features and functions when menus are on-screen.

**CLEAR**

Allows you to change menu entries or clear a timer recording and resets time counter to 00:00:00.

**DISPLAY**

Displays TV/VCR's on-screen menus.

**EJECT**

Ejects a tape.

**FORWARD**

Fast forwards the video tape. Searches forward during playback.

**GO BACK**

Switches between the last two channels.

**LINE IN**

Switches between signals from the audio and video input jacks on the right side of the TV/VCR.

**MENU**

Displays the main menu.

**MUTE**

Turns sound on or off.

**PAUSE**

Pauses the tape during playback.

**PICTURE**

Selects custom or standard picture settings.

**PLAY**

Plays a tape.

**POWER**

Turns TV/VCR on or off.

**REC (Record)**

Starts the recording process. Also used for one-touch recording.

**REPEAT**

Repeats a tape or a section of a tape.

**REVERSE**

Rewinds the video tape. Searches the picture in reverse during playback.

**SPEED**

Selects a recording speed.

**STOP**

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

**TRACK + or -**

Lets you manually adjust the tracking to reduce the streaks that may appear in the picture during tape playback.

**VOL (Volume) + and -**

Raises and lowers sound. Selects and adjusts features and functions when menus are on-screen.

**Numbers (0 through 9)**

Select a cable channel up to 69 by pressing two numbers. Select a cable channel higher than 69 by pressing the +100 button followed by the next two digits of the cable channel.

# Using the TV/VCR Features

## On-Screen Displays

When you change channels, adjust volume or use a VCR feature, an on-screen display will appear to alert you of the TV/VCR's status.

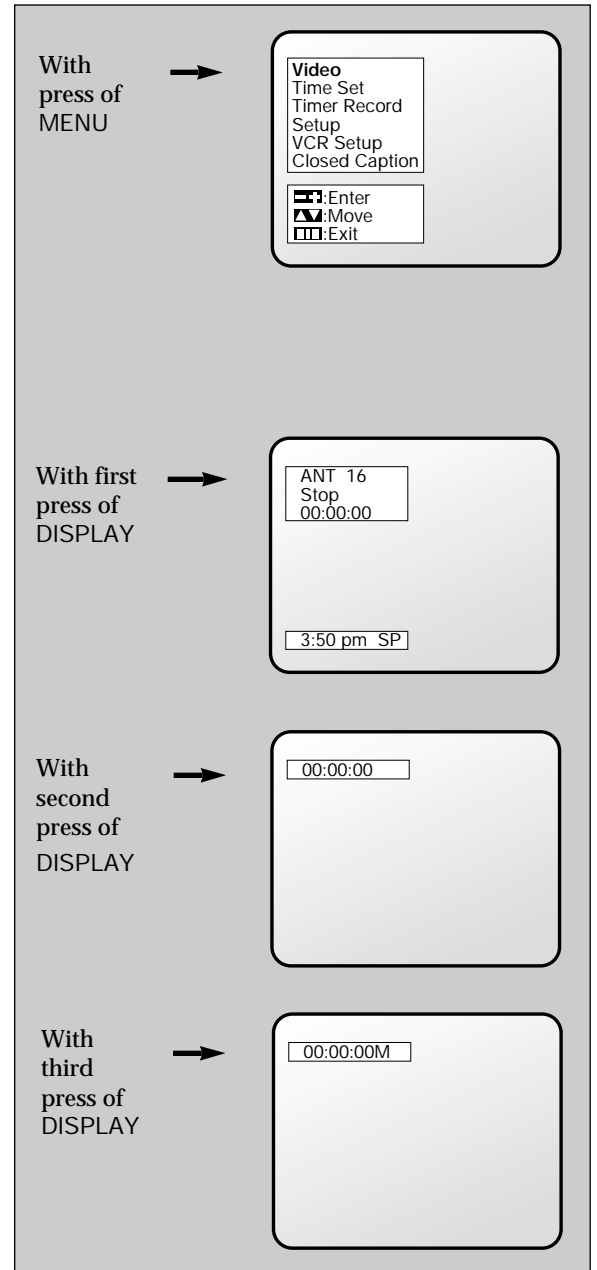
### To Access the Main Menu

1. Press MENU on the remote to display the main menu.
2. Press MENU again to remove the main menu from the screen. (The menu will disappear from the screen if no buttons are pressed within 15 seconds.)

### To Access On-Screen Displays

1. Press DISPLAY to display the signal source, channel, function, time counter, time and tape speed. If no tape is in the TV/VCR, the display will read "No tape".
2. Press DISPLAY again to display the time counter only.
3. Press DISPLAY again to display the time counter memory only.

4. Press DISPLAY again to remove all displays.



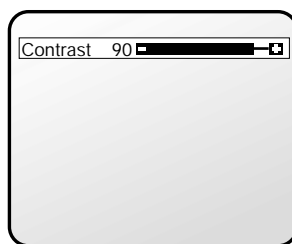
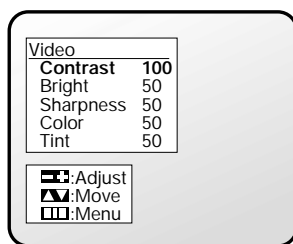
# Using the TV/VCR Features

## Adjust the Video

Use the VIDEO menu to adjust the picture to suit your personal preferences. The TV/VCR will remember the settings you select.

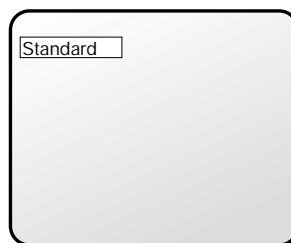
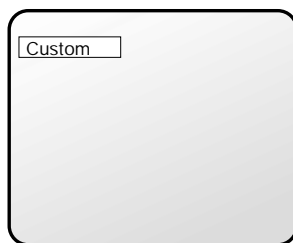
### To Adjust Video

1. Press MENU on the remote, then press the CH▼ or ▲ button until **Video** is highlighted. Press VOL+ to display the **Video** menu.
2. Press CH▼ or ▲ to select contrast, brightness, sharpness, color or tint; then press VOL+ or - to change the setting.
3. Press MENU (or wait a few seconds) to preserve your setting and to return to the video menu. Once you make a change to a setting, that setting is used by the TV/VCR each time you turn it on.
4. Press MENU again to exit the **Video** menu.



### To Return to Standard Picture Settings

1. Press PICTURE on the remote control. **Custom** appears on the screen, indicating that custom settings have been stored in memory.
2. Press PICTURE again to reset to the levels set at the factory. **Standard** appears on the screen when settings are reset.



# Using the TV/VCR Features

## Closed Captioning

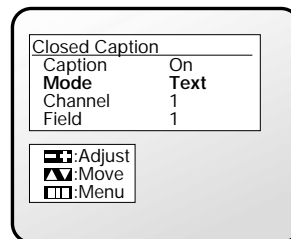
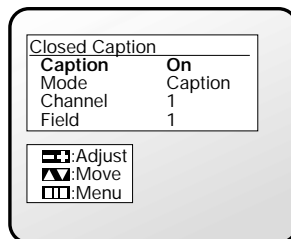
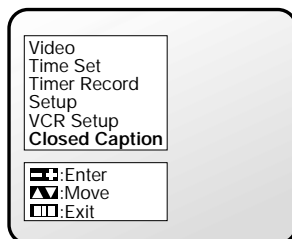
The closed captioning feature displays the audio of a program as text on the TV screen. This is useful to anyone who is hearing impaired, anyone who wants to watch a program without sound or anyone who wants to see a program's translations.

Closed captioning is not available on all channels. Check your TV program listings for CC (closed caption) broadcasts.

## To View Closed Captions

1. Press MENU on the remote, then press the CH▼ or ▲ button until **Closed Caption** is highlighted. Press VOL+ to display the Closed Caption menu. Press VOL+ to turn on or off the closed captioning feature.
2. Press the CH▼ or ▲ button to highlight **Mode**. Press VOL+ to choose **Caption** or **Text**.
3. Press CH ▼ or ▲ to highlight **Channel**; press VOL+ to choose **Closed Caption Channel 1** or **2** (CC1 or CC2).
4. Press CH ▼ or ▲ to highlight **Field**; press VOL+ to choose **Closed Caption Field 1** or **2** (Text Mode 1 and Text Mode 2).
5. Press MENU twice to return to normal TV viewing.

Text mode displays general information not necessarily related to the program being watched.

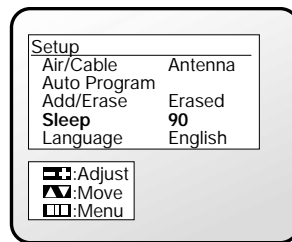
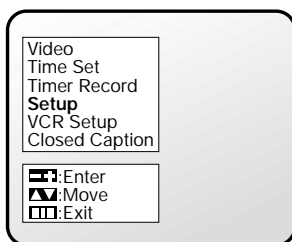


# Using the TV/VCR Features

## Sleep Timer

The sleep timer automatically turns the TV/VCR off after 10, 20, 30, 60, 90, 120, 240 or 360 minutes.

1. Press MENU on the remote to display the main menu.
2. Press CH▼ or ▲ until **Setup** is highlighted and then press VOL+ or - to display the **Setup** menu.
3. Press CH▼ or ▲ until **Sleep** is highlighted and then press VOL+ or - to select **OFF, 10, 20, 30, 60, 90, 120, 240** or **360** minutes.
4. Press MENU twice to exit the menus.

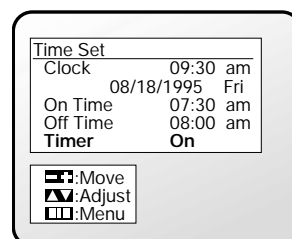
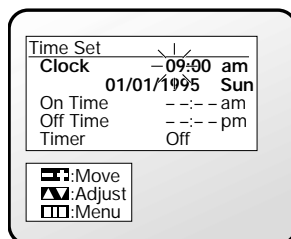
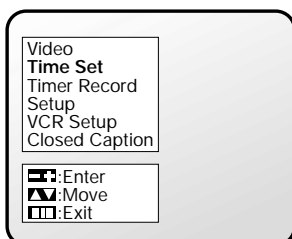


# Using the TV/VCR Features

## On/Off Timer

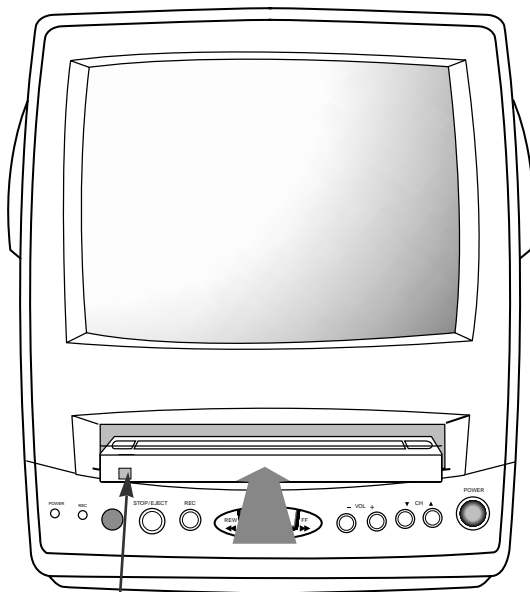
The timer turns the TV/VCR on at a desired time. You can set it to wake you up in the morning or to come on when a favorite program is about to start.

1. Press MENU on the remote to display the main menu.
2. Press CH▼ or ▲ until **Time Set** is highlighted and then press VOL+ or - to display the **Time Set** menu.
3. Press CH▼ or ▲ to highlight **On Time** and then press VOL+ or -.
4. Use the CH▼ or ▲ buttons to set the desired “on” time; use the VOL+ or - buttons to switch from the hour digits (**00:00**) to the minute digits (**00:00**). Press VOL+ or - again to “set” the times you have just entered.
5. Press CH▼ to highlight **Time Off**, and using the CH▼ or ▲ and VOL+ or - buttons, repeat the process outlined in step 4 to set the desired “off” time.
6. Press CH▼ to highlight **Timer** and use the VOL+ or - buttons to set it to **On** or **Off**.
7. Press MENU twice to exit the menus.



# Operating Instructions

## To Play a Tape



Safety Tab

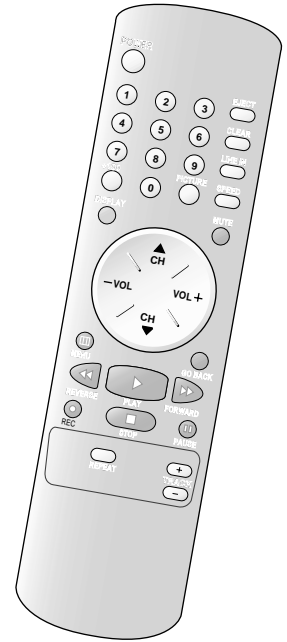
1. When you insert a tape in the TV/VCR, the TV/VCR automatically turns on. The channel and mode indicators, time counter and tape speed displays appear momentarily when you insert a tape.
2. The tape automatically begins to play if the safety tab on the cassette has been removed. Or, press PLAY if necessary.
3. If necessary, the TV/VCR will automatically adjust the tape's tracking. Or you can also press TRACK + or - on the remote to manually remove any streaks from the picture during playback.
4. Press STOP on the remote or STOP/EJECT on the TV/VCR to stop playback.
5. The TV/VCR will automatically rewind a tape when it reaches the end. If you press POWER while a tape is rewinding, the TV/VCR will rewind the tape fully and then shut itself off.
6. Press EJECT on the remote or STOP/EJECT on the TV/VCR to eject the tape once it is completely rewound.  
A cassette may be ejected with the power turned off.

# Using the Playback Features

## Pause

This feature pauses the tape and allows you to examine the details of the scene. Pause works best for tapes recorded in SLP speed.

1. Press PAUSE on the remote during playback to pause the action. To prevent excessive wear, the TV/VCR will automatically play back the tape after five minutes in pause mode.
2. To return to playback, press PAUSE again or press PLAY.



## Picture Search

You can search a video tape during playback. Sound is turned off during picture search. Picture search works best for tapes recorded in SLP speed.

1. During playback, press FORWARD to search forward or REVERSE to search in reverse.
2. Press FORWARD or REVERSE again, or press PLAY to return to playback.

## Automatic Tracking

The TV/VCR has automatic tracking which adjusts the picture when playing a tape. Automatic tracking is turned on each time a tape is inserted.



## Manual Tracking

Occasionally, you may need to manually adjust the tracking. Tracking has no effect during recording.

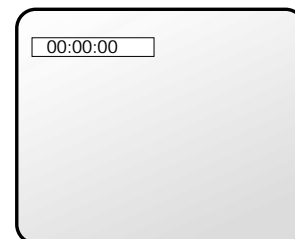
- When streaks or snow appear in the picture during normal playback or slow motion, press TRACK + or - on the remote for the best possible picture.

# Using the Playback Features

## Time Counter

The time counter helps locate the beginning or end of programs you taped. The time counter automatically resets to 00:00:00 each time a tape is inserted.

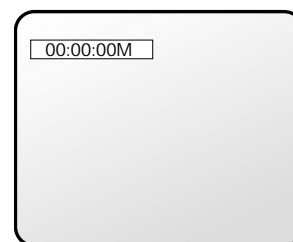
1. While a tape is playing, press DISPLAY twice to continuously display the time counter in the upper left corner of the screen.
2. Press CLEAR to set the time counter to 00:00:00.
3. Press DISPLAY twice to remove the time counter from the screen.



## Memory Stop

Memory stop will mark the beginning or end of programs or particular scenes so that you can easily locate them later.

1. While a tape is playing, press DISPLAY twice to show the time counter in the upper left corner of the screen.
2. Press CLEAR to set the time counter to 00:00:00.
3. Press DISPLAY again to enter the scene into memory. An "M" appears next to the time counter. The scene is now entered into memory.
4. To return to the scene, press STOP (the timer counter/memory stop marker, the "M", must be on the screen in order for this to work properly – if not, press DISPLAY until the display appears).
5. Press FORWARD or REVERSE to return to the desired scene. The TV/VCR stops when it reaches the time counter/memory stop marker.
6. Press PLAY to view the scene.

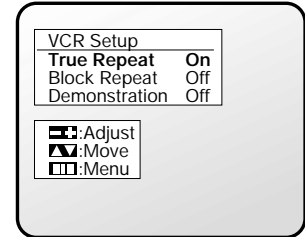


# Using the Playback Features

## Setting the True Repeat Feature

This feature tells the TV/VCR to automatically rewind and replay a tape after it has played to the end.

1. Press MENU on the remote to display the main menu; press CH▼ or ▲ until **VCR Setup** is highlighted; press VOL + or - to display the **VCR Setup** menu.
2. Press CH▼ or ▲ to highlight **True Repeat**.
3. Press VOL + to select "On".



## Using True Repeat

With the True Repeat feature on, a tape will automatically rewind after it has reached the end and will be replaying.

1. To start the tape playing, press the PLAY button. To stop the tape playing, press the STOP button.
2. To turn off the **True Repeat** feature, repeat steps 1 through 3, selecting "Off" in step 3.

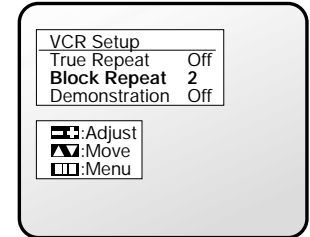
Note: If the TV/VCR reaches an unrecorded section of tape during playback, it will search forward and check the tape again. The TV/VCR will continue to search until it finds a recorded section, when it will begin playing.

# Using the Playback Features

## Setting the Block Repeat Feature

This feature tells the TV/VCR to play a tape (or a “block” of part of the tape) from one to ten times or endlessly.

1. Press MENU on the remote to display the main menu; press CH▼ or ▲ until **VCR Setup** is highlighted; press VOL+ or - to display the **VCR Setup** menu.
2. Press CH▼ or ▲ to select **Block Repeat**.
3. Continually press VOL+ to select the number of times you want the “block” to repeat. Select “**Endless**” or any number of times from **1** to **10**. Press MENU twice to remove the displays.



## Selecting the Area to Repeat

Block Repeat must be turned on before you can select the area to repeat.

1. While viewing a video tape, press REPEAT at the beginning of a block of tape that you wish to repeat. Press REPEAT again at the end of the block. The TV/VCR will rewind the tape to the beginning of the block and repeat it as many times as you indicated in the **Block Repeat** menu. “**Repeat**” appears on the screen while the tape is rewinding.

Note: the block that you select to repeat should be more than ten seconds long.

2. To stop block repeat, press STOP or PAUSE, or rewind or fast forward to a part of the tape that is outside the “block”. Any of these actions cancels the block you have selected to repeat.
3. To turn off Block Repeat, repeat steps 1 to 3 in “Setting the Block Repeat Feature”, selecting “**Off**” in Step 3.

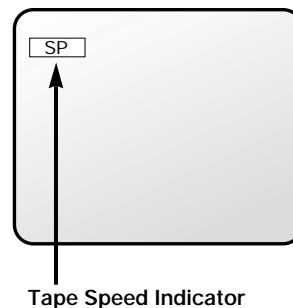
## Recording Features

### Recording Speeds

Press SPEED to select a recording speed.

Cassette	Recording Time		
	SP	SLP	LP
<b>T-120</b>	2Hrs	6Hrs	4Hrs
<b>T-160</b>	2Hrs 40Min	8Hrs	5Hrs 20Min

- SP (Standard Play) gives the best quality recording, which is the reason that most pre-recorded rental tapes are recorded in SP. Fewer programs can be recorded on a tape in SP mode.
- LP (Long Play) gives twice the recording time of tapes recorded in SP. Special effects are not recommended in this speed.
- SLP (Super Long Play) gives three times the recording time of tapes recorded in SP. Special effects such as “still picture” work best in SLP.



### Recording Pause

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

- Press PAUSE during recording to pause recording. Press PAUSE again to resume recording.  
The TV/VCR will automatically switch from pause to stop after about ten minutes to prevent wear to the tape and the video heads.

# Types of Recordings

Your TV/VCR provides different ways to record which are explained in the following sections:

**Basic Recording**

**One-Touch Recording**

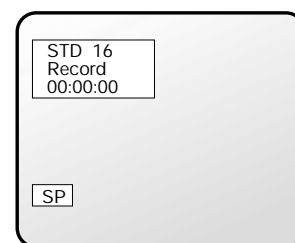
**Recording at a Later Time (timer recording)**

**Video Dubbing (copying and editing tapes)**

## Basic Recording

Recording TV programs as you watch

1. Insert a tape with safety tab in place.
2. Press SPEED to select a recording speed. The tape speed indicator appears.
3. Select the channel to be recorded.
4. Press REC to begin recording. The REC indicator light on the front of the TV/VCR lights during recording and a display appears temporarily on the screen.
5. Press STOP/EJECT on the TV/VCR or STOP on the remote to stop recording. To avoid unpleasant distortion on the recording, do not change tape speeds while recording.



## One-Touch Recording

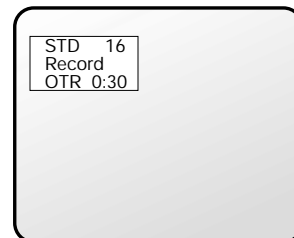
One-Touch Recording lets you record up to four hours or to the end of the tape without programming the timer. You can begin recording immediately. The TV/VCR will stop automatically at the end of the recording.

### Using One-Touch Recording

1. Insert a tape with safety tab in place.
2. Select the channel to be recorded.
3. Press SPEED to select a recording speed.
4. Press REC to activate recording. The REC indicator on the TV/VCR's front panel will light during recording and a display appears on the screen.
5. Press REC repeatedly until the desired amount of recording time is displayed.

With each press of the REC button, the recording time increases. Recording times are 30 minutes, 60 minutes, 90 minutes, 2 hours, 3 hours and 4 hours. You can press REC at any time during the recording to increase the length of the recording.

6. To stop recording before the time is up, press REC until the display shows "0:00". Or, press POWER on the front panel followed by pressing STOP/EJECT.



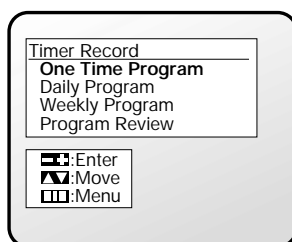
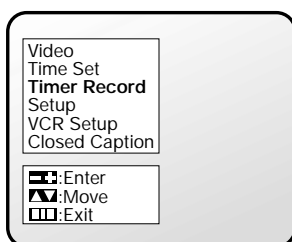
<b>Press REC</b>	<b>Recording Time</b>
<b>0:30</b>	<b>(30 Min)</b>
<b>1:00</b>	<b>(1 Hr)</b>
<b>1:30</b>	<b>(1 Hr, 30 Min)</b>
<b>2:00</b>	<b>(2 Hrs)</b>
<b>3:00</b>	<b>(3 Hrs)</b>
<b>4:00</b>	<b>(4 Hrs)</b>

# Recording at a Later Time (timer recording)

Timer recording lets you program the TV/VCR to record up to eight different programs within a one year period. Before setting the timer, make sure that the clock is set correctly.

## Setting a Timer Recording

1. Press MENU on the remote to display the main menu; press CH▼ or ▲ until **Timer Record** is highlighted; press VOL+ or - to display the **Timer Record** menu.
2. Press CH▼ or ▲ to highlight the desired timer recording setting; press VOL+ or - to select the desired setting. The settings are:  
**One Time Program** — single program records once.  
**Daily Program** — program records at the same time every day.  
**Weekly** — program records at same time once a week.



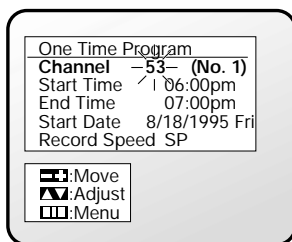
Daily and weekly programs remain in the timer until you remove them. One-time programs are cleared from memory when the recording is finished.

3. After you select a desired recording setting, a menu for that type of recording appears (such as the **One Time Program** menu shown below).

Use the VOL+ or - and the CH ▼ or ▲ buttons to move through the menu and set up the program.

The TV/VCR assigns a program number ("No. 1" on the sample screen) for each program you set up. This number is used in the **Program Review** feature).

If you enter programs that are scheduled to air at the same or overlapping times, a display will alert you and give you instructions.



# Recording at a Later Time (timer recording)

## Setting a Timer Recording (cont.)

4. After you have set your recording, press MENU three times to return to normal viewing. Turn off the TV before time to record. The REC indicator on the TV's front panel will light when a timer recording has begun.
5. To watch the channel while it is being recorded, press POWER on the remote control **only**.

**Note: If a power interruption occurs for more than 40 seconds, all programs will be removed from memory until and unless you reset the TV/VCR's clock.**

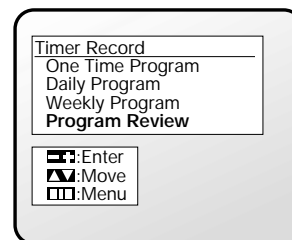
**If you are recording from a cable box, turn it on and tune it to the channel you want to record before time for the recording to begin.**

## Program Review

### (Checking or Clearing Timer Recordings)

1. Press MENU on the remote to display the main menu; press CH▼ or ▲ until **Timer Record** is highlighted; press VOL+ or - to display the **Timer Record** menu.
2. Press CH▼ or ▲ to highlight the **Program Review** menu.
3. Repeatedly press VOL+ to see information on each program that has been stored.
4. Press CLEAR to erase a program.

Note: If there are no programs stored, pressing the VOL+ button while **Program Review** is highlighted will do nothing.

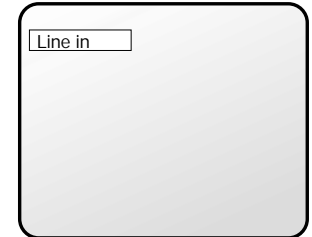


## Video Dubbing (copying and editing tapes)

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

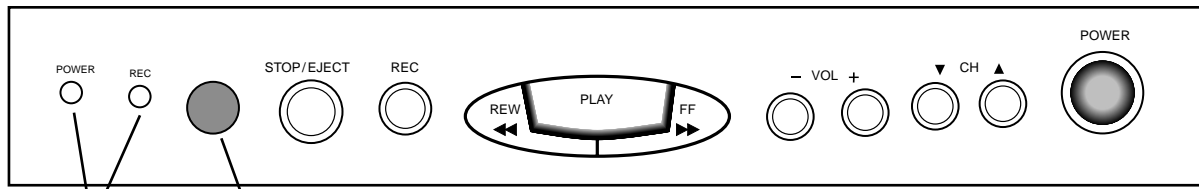
(Refer to page 29 to connect your TV/VCR to another VCR or camcorder before attempting video dubbing.)

1. Press LINE IN on the remote control of the TV/VCR. “Line in” appears on the screen.
2. Insert the tape you want to copy into the playback VCR or camcorder. Insert a blank tape with safety tab intact into the TV/VCR.
3. 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 the tracking. When you reach the place you want to begin copying, press STOP.
4. **At the same time**, press REC on the TV/VCR’s remote and PLAY on the VCR or camcorder to begin copying the tape.
5. To edit out segments that you do not want to copy, press PAUSE on the TV/VCR’s remote during the undesired segment. Press PAUSE again to resume dubbing at desired point.
6. Press STOP on **both** the TV/VCR’s remote and the VCR or camcorder when you are finished.
7. Press LINE IN on the TV/VCR’s remote to return to normal TV viewing.



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

# Front Panel



indicator lights    remote sensor

**CH ▾ and ▲ (Channel up and down)**

Selects next higher or lower channel in the TV/VCR's channel memory. Selects and adjusts features and functions when menus are on-screen.

**FF ►► (Fast Forward)**

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

**PLAY ►**

Plays a tape.

**POWER button**

Turns the TV/VCR on or off.

**POWER indicator**

Lights when TV/VCR is turned on.

**REC (Record)**

Press to start TV/VCR recording.

**REC indicator**

Lights when a recording

**Remote Sensor**

Receives signals from the this sensor with no object

**REW ◀◀ (Rewind)**

Rewinds the tape when t Searches the picture in re

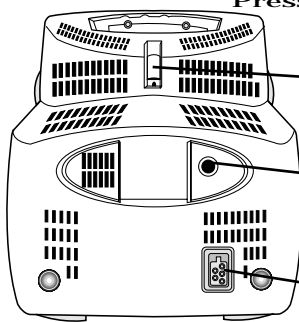
**STOP/EJECT**

Stops normal functions – rewind, fast-forward, or j is stopped to eject the cas

**VOL + and - (Volume up**

Raises and lowers the sou features and functions w/ s

# Back and Side Panels



Back panel

**Antenna mount**

Connect the supplied VHF/UHF antenna here.

**IN FROM ANT jack**

Receives the signal from an antenna or cable system.

**AC/DC INPUT jack**

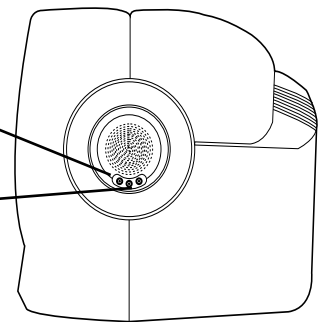
Connect the AC or DC power cord here.

**EAR (headphones) jack**

Connect headphones here.

**VIDEO-IN-AUDIO jacks**

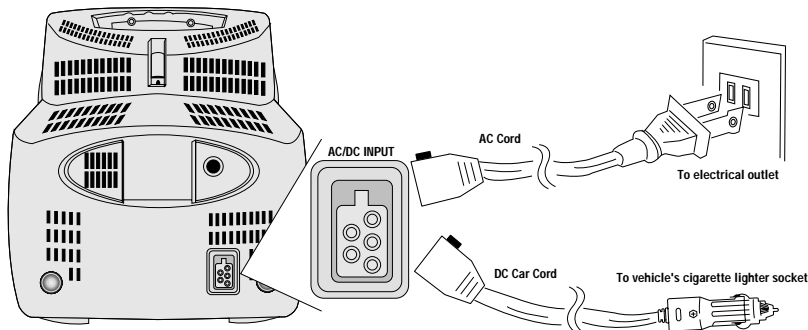
Receive signals from another component, such as a VCR or camcorder, when it is connected to these jacks. To select these jacks, use LINE IN on the remote.



Side panel

# Connecting the TV/VCR to a power supply

Use the provided cords for operation on AC power or DC power. Connect as shown.



**CAUTION:**  
**NEVER WATCH THE**  
**TV/VCR WHILE DRIVING.**

## DC car cord information:

- Your vehicle must have a 12 volt or 24 volt, negative-ground electrical system.
- Use only the supplied car battery cord (using another cord could damage the TV/VCR).
- Before you plug the DC power cord into the vehicle's cigarette-lighter socket, make sure the socket is free of ashes or other debris. Plug the cord completely into the socket.
- Always unplug the DC power cord from the cigarette-lighter socket before you unplug it from the TV/VCR.
- When replacing fuses, always use the same type: 8A, 125V.
- If you use the TV/VCR with the vehicle's engine off, recharge the vehicle's battery after about every four hours of TV/VCR use. Always unplug the DC power cord from the vehicle's cigarette-lighter socket when the TV/VCR is not in use.
- To protect your vehicle's battery and to ensure that it has enough power to start your vehicle, the TV/VCR will shut off if DC power drops below 11 volts.

## Choosing a Signal Hookup

To connect a VHF/UHF dipole antenna, see page 27, section A.

To connect an outside antenna, a set-top antenna or a cable system without a cable box, see page 27, section B.

To connect a cable system without a cable box, see page 28, section A.\*

To connect a cable system with a cable box to unscramble premium channels only, see page 28, section B.\*

To connect a camcorder or another VCR for video dubbing, see page 29, sections A and B.

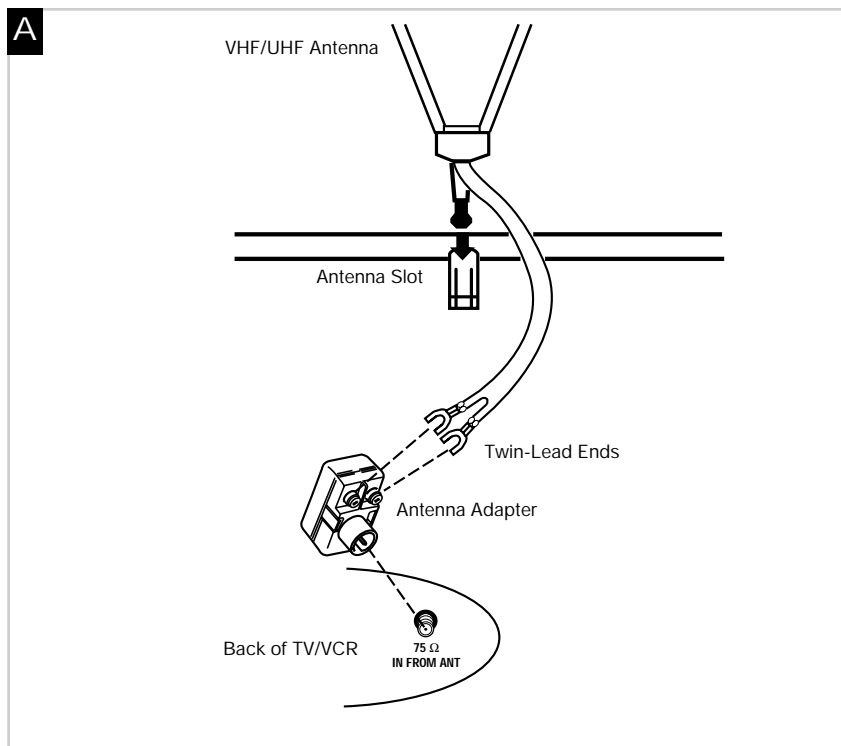
\*You may need to contact your local cable company for assistance.

## Connecting Antennas or Cable Systems without a Cable Box

### A. VHF/UHF Dipole Antenna

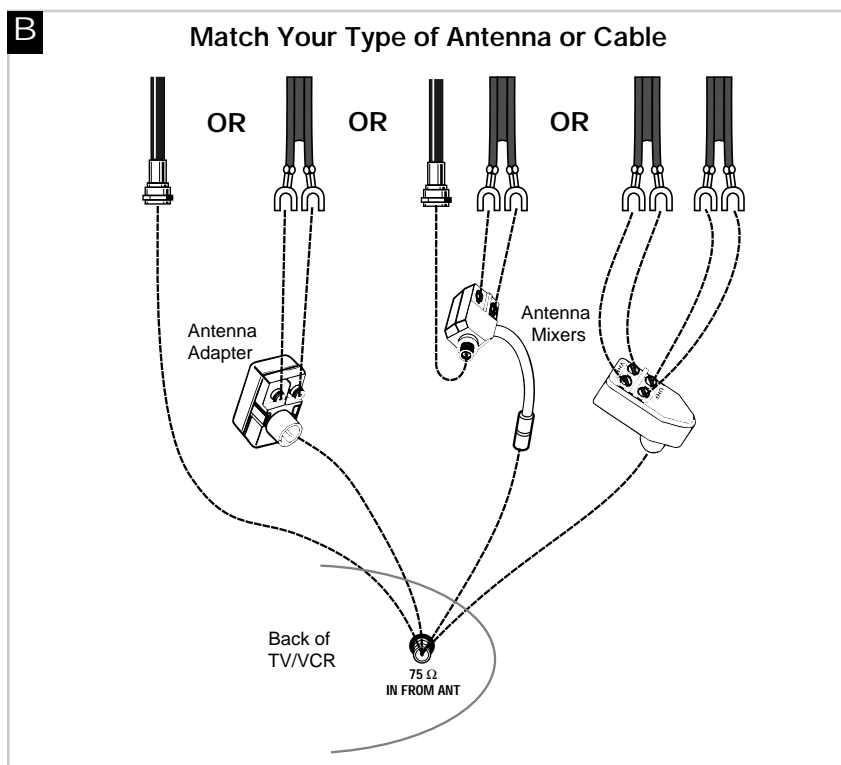
Follow these steps to connect a VHF/UHF dipole antenna to your TV/VCR. Do not connect this type of antenna if you plan to connect a different type of indoor or outdoor antenna or cable system.

1. Insert the antenna base into the slot on the back of your TV/VCR.
2. Connect the twin-lead ends of the antenna to the screw terminals of an antenna adapter.
3. Connect the antenna adapter to the IN FROM ANT. jack on the back of the TV/VCR.
4. Plug in the TV/VCR's power cord.
5. See "Setting Up the TV/VCR" on page 3.
  - For best reception on VHF channels, extend the rods fully; shorten the rods for best reception on UHF channels.



### B. Outside Antenna, Set-top Antenna, or Cable System Without a Cable Box

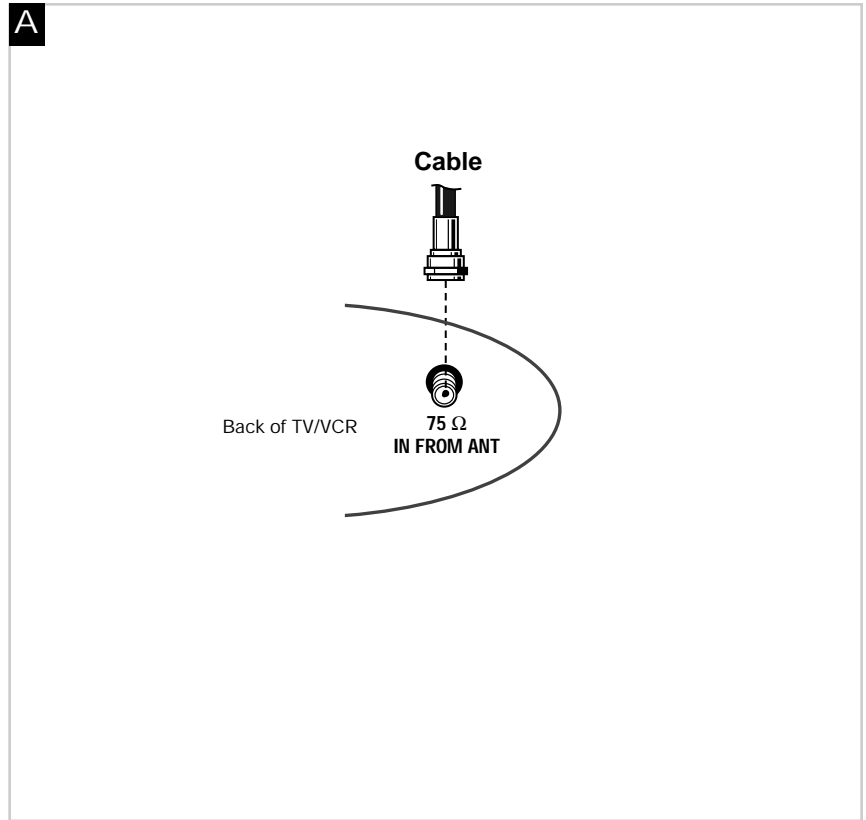
1. Connect as shown.  
This connection may require additional accessories not provided.
2. Plug in TV/VCR's power cord.
3. See "Setting Up the TV/VCR" on page 3.



## Connecting Cable Systems

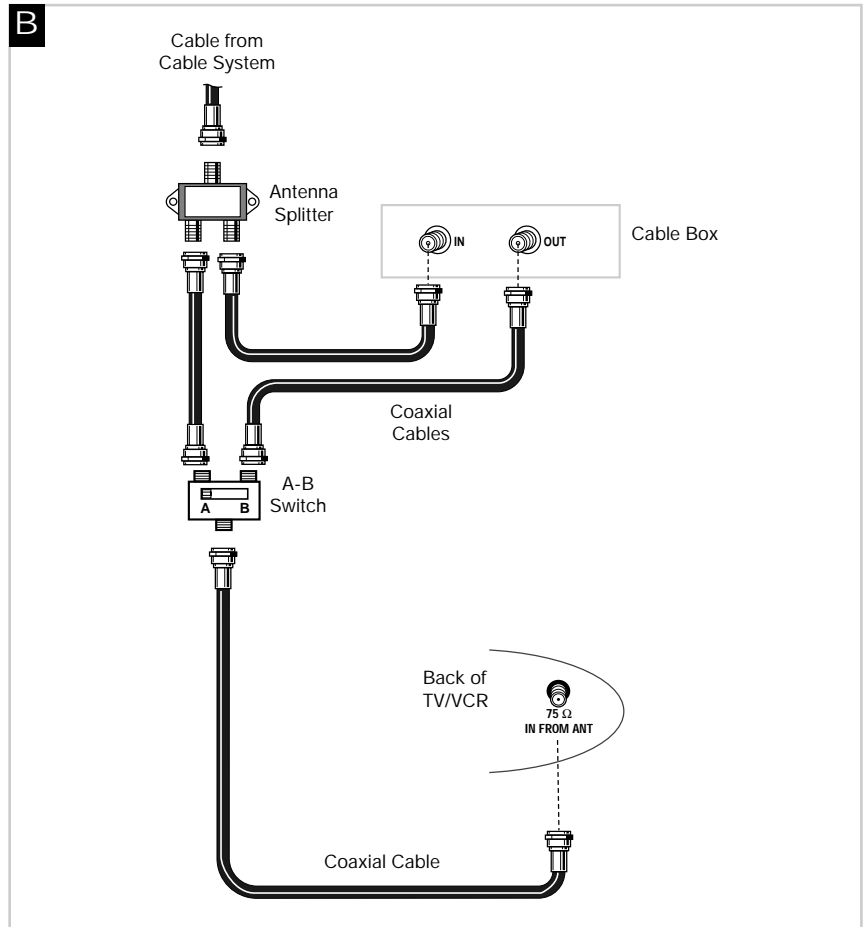
### A. To connect cable system without a cable box

1. No cable box is required. Connect as shown.  
This connection may require additional accessories not provided.
2. Plug in power cords of TV/VCR and cable box.
3. See "Setting Up the TV/VCR" on page 3.



### B. To connect a cable system with a cable box to unscramble premium channels only

1. Connect as shown.  
This connection requires additional accessories not provided.
2. Plug in power cords of TV/VCR and cable box.
3. 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. When using the "B" position, tune your TV/VCR to the converter box's output channel (usually channel 3 or 4).
4. See "Setting Up the TV/VCR" on page 3.

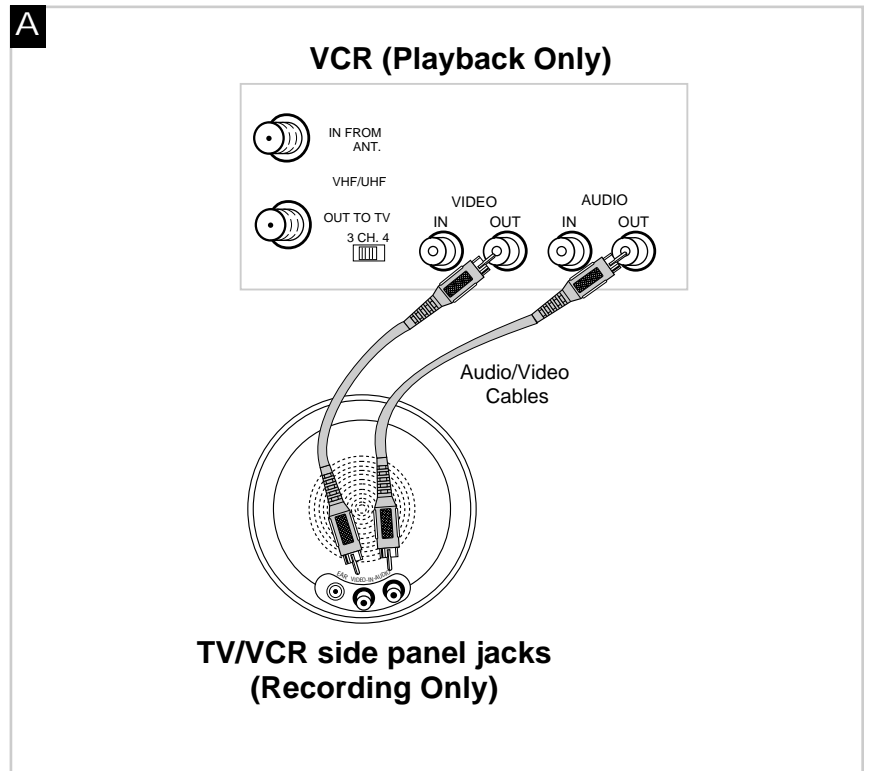


# Connecting a VCR or Camcorder for Video Dubbing (copying and editing tapes)

### A. To connect a VCR for video dubbing

1. Connect as shown.  
This connection requires additional accessories not provided.
2. Plug in power cords of VCR and TV/VCR.
3. See "Video Dubbing (copying and editing tapes)" on page 24.

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- adapter to hear both channels.

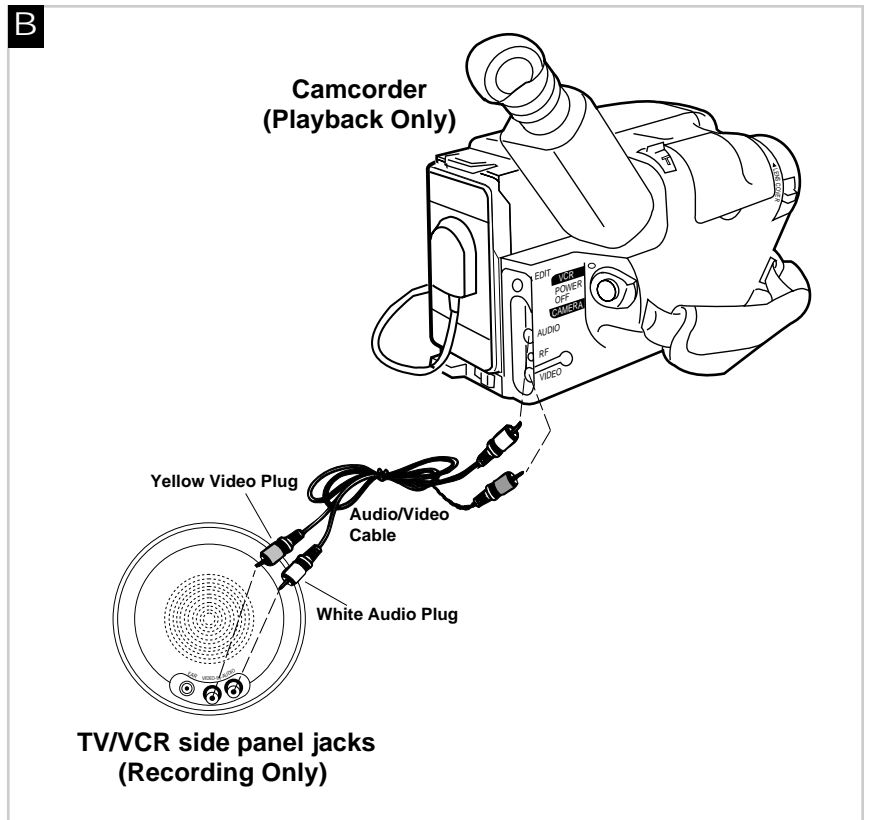


### B. To connect a camcorder for video dubbing

1. Connect as shown.  
This connection requires additional accessories not provided.
2. Plug in TV/VCR's power cord.
3. See "Video Dubbing (copying and editing tapes)" on page 24.

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

**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.

Problem	Solution
<b>No power</b>	<ul style="list-style-type: none"> <li>• Plug TV/VCR into an operating outlet.</li> <li>• Check connections.</li> </ul>
<b>TV/VCR does not respond to remote</b>	<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> </ul>
<b>Poor or no picture during TV viewing</b>	<ul style="list-style-type: none"> <li>• Switch to an active channel.</li> <li>• Check antenna connections. If using supplied dipole, try adjusting rods.</li> <li>• Check picture adjustments.</li> <li>• Make sure the line input is not selected. Press LINE IN on the remote to switch between audio/video input jacks and tuner.</li> </ul>
<b>Poor sound quality or no sound</b>	<ul style="list-style-type: none"> <li>• Press VOLUME up to increase sound.</li> <li>• Sound has been muted. Press MUTE on remote or VOLUME up.</li> <li>• Adjust the antenna.</li> <li>• If playing a tape, try adjusting the tracking using the TRACK + or - buttons.</li> </ul>
<b>Snow or streaks in picture or no picture during playback</b>	<ul style="list-style-type: none"> <li>• The tape may be worn or of poor quality. Try another tape.</li> <li>• Clean the video heads.</li> <li>• Some snow and/or streaks are normal during search, pause and slow-motion playback.</li> <li>• Use the TRACK + or - buttons on the remote to clear the streaks.</li> </ul>
<b>Will not record or play</b>	<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> <li>• For timer programs, make sure the unit is turned off in order to record.</li> </ul>
<b>Cannot insert or eject tape</b>	<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> </ul>
<b>Time counter not working</b>	<ul style="list-style-type: none"> <li>• Press DISPLAY on remote to display time counter on screen.</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 counter if you rewind the tape farther back than a counter reading of 0:00:00.</li> </ul>
<b>Rewind does not operate</b>	<ul style="list-style-type: none"> <li>• Tape already rewound.</li> <li>• Tape will not rewind during recording.</li> </ul>

# Trouble Checks

Problem	Solution
<b>Timer recording not made or wrong program recorded</b>	<ul style="list-style-type: none"> <li>• Program entered incorrectly (wrong channel or times).</li> <li>• Cable box was not turned on at time recording was to begin, or was on the wrong channel.</li> <li>• Power interruption.</li> <li>• Check to see if time and date are correct — including AM/PM.</li> <li>• Program exceeded tape's length or tape was not rewound beforehand.</li> <li>• No tape in TV/VCR, or cassette ejected if safety tab broken off.</li> <li>• For timer programs, make sure the unit is turned off in order to record.</li> </ul>
<b>Clock shows incorrect time or date</b>	<ul style="list-style-type: none"> <li>• Power interruption.</li> <li>• Clock was not set accurately (check AM/PM and date).</li> </ul>
<b>TV/VCR makes noise when stopped</b>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<b>Will not auto channel search active channels correctly</b>	<ul style="list-style-type: none"> <li>• Check antenna or cable connections.</li> <li>• Check signal type setting. See page 4.</li> </ul>
<b>Cannot see closed captions on screen</b>	<ul style="list-style-type: none"> <li>• Closed caption function must be set to on.</li> <li>• Station may not be broadcasting closed captions.</li> <li>• Try using the other Closed Caption setting. See page 11.</li> </ul>
<b>Tape plays over and over</b>	<ul style="list-style-type: none"> <li>• Block Repeat or True Repeat functions have been turned on.</li> </ul>
<b>TV/VCR turns off automatically</b>	<ul style="list-style-type: none"> <li>• Sleep timer turned on. Press POWER to turn TV/VCR back on.</li> </ul>
<b>TV/VCR turns on automatically</b>	<ul style="list-style-type: none"> <li>• On-Off Timer is turned on.</li> </ul>
<b>Cannot record one program while watching a different program</b>	<ul style="list-style-type: none"> <li>• TV/VCR only has one tuner. Only one program can be watched and recorded at the same time.</li> </ul>

## Care and Cleaning

- Do not place the TV/VCR near extremely hot, cold, humid or dusty places.
- If moving the TV/VCR from a cold area to a warm area, moisture may develop inside the unit. If this happens, unplug the power cord and allow the TV/VCR to reach room temperature before playing a tape. This is especially important when using this unit in a vehicle where temperature changes can be dramatic.
- Do not place the TV/VCR near appliances with electric motors. Keep the ventilation openings clear.
- Never place the TV/VCR on a soft surface, such as a couch. Place the TV/VCR in a vertical position only on a well-balanced surface.
- Do not put heavy objects on top of the cabinet.
- Never open the TV/VCR's cabinet or touch the parts inside.
- To clean the TV/VCR, wipe it with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals. Plastic surfaces are easily scratched and can be marred by alcohol or other solvents. Avoid using oil-based furniture polishes because they attract dust inside the cabinet.
- Use a head-cleaning tape to clean dirt that accumulates on the video heads. Follow instructions that come with the cleaning tape. Do not use a head-cleaning tape excessively as it causes wear to the unit's video heads.

## Specifications

<b>Picture Tube</b>	9-inch measured diagonal 90° deflection
<b>Format:</b>	VHS Standard
<b>Record/Playback System:</b>	Video: 2-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) Canada: 178 channel tuning capability* (122 cable channels)
<b>Type:</b>	Autoprogramming frequency synthesis
<b>Power Requirement:</b>	120V AC, 60 Hz; 12V DC, 24V DC
<b>Power Consumption:</b>	55 watts
<b>Dimensions:</b>	12.28 inches wide (312 mm) 15 inches deep (381 mm) 12.91 inches high (328 mm)
<b>Weight:</b>	24 pounds (10.8 kg)
<b>Operating Temperature Range:</b>	+41°F to +104°F (+ 5°C to 40°C)
<b>Operating Humidity Range:</b>	10% to 75%

\* Check your cable company's compatibility requirements.

## Limited Warranty

What your warranty covers:

- Any defect in materials or workmanship.

For how long after your purchase:

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

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

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 damage.

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 may have other rights that vary from state to state.

If you purchased your TV/VCR outside the USA:

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

For your nearest Authorized Servicenter  
call toll-free in the USA.

1-800-336-1900

Canadian Consumers —  
Your toll-free numbers are.

English: 1-800-522-0338

French: 1-800-522-0445

If your product 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**

**10330 N. Meridian Street  
Indianapolis, IN 46290**

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