

TV/VCR User's Guide



We bring good things to life.

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
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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:	

Table of Contents

Important Information	Manual Tracking 13
Warningi	C : 10
Cautionsi	
Note to Cable TV Installeri	
Product Registrationi	
	Index Search15
	Zero Search16
Setting Up the TV/VCR	Blank Search16
Startup	Recording a Program
Check Accessories With TV/VCR2	Recording Features
Insert Batteries in Remote3	Necoluniz realules
Place Your TV/VCR on a	Recording Pause17
Stable Surface3	Child Lock
Connect Antenna or Cable-TV	Types of Recordings
System3	Basic Recording18
Turn On the TV/VCR3	One Touch Recording19
Put Channels into Memory	Timer Recording
(Auto Channel Search)3	Setting a Timer Recording20
Set the Signal Type (optional)4	
Add or Remove Channels from	Checking or Clearing Timer Recordings 21
TV/VCR's Memory4	
Set the Time and Date (Clock)4	
Select the Language. (Escoge	Copying and Editing Tapes22
una Lengua.)5	
Select a Channel and Adjust	Location of Controls
the Volume5	Front Panel 23
	Back Panel24
Using the Remote Control	
Buttons6-7	Hooking Up the TV/VCR
	Choosing a Hookup24
	Connect Supplied Antenna, Antenna or
TV/VCR Features	Cable System Without a Cable Box 25
Using the TV/VCR Features	Connect a Cable System With Cable Box _ 26
On-Screen Displays 8	a wan a l
Adjust the Picture8	
Closed Captioning	-
Commercial Skip9	
Wake-Up Timer10	, 110101011000
Sleep Timer10	
Sleep Timer R	Clearling the TV/VCK50
	Specifications30
Playing a Tape	Limited Warranty31
Operating Instructions1	Index32-33
Using the Playback Features	
Pausa 11)

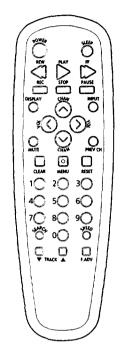
 Frame Advance
 12

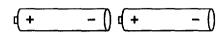
 Picture Search
 12

 Automatic Tracking
 13

1. Check accessories with TV/VCR combination.

Contact your dealer if any items are missing.



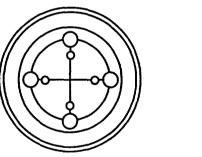


2 "AAA" Batteries

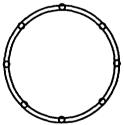


Antenna Adapter (300-75 Ohm) (Stock No. 232919)

Remote (Stock No. 232347)

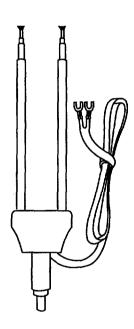


Swivel Base (Stock No. 232777)



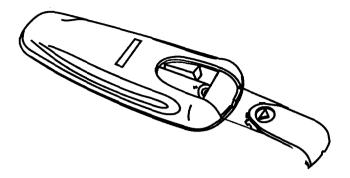
Swivel Bearing Guide (Stock No. 232778)

Swivel Bearings (Stock No. 232779)



VHF/UHF Dipole Antenna (Stock No. 232920)

2. Insert batteries in remote.



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 surface or stand on which to place your product and when moving or carrying it. Use 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. If hand grips are located in the top, grasp the TV/VCR with both hands with the TV front 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 pages* 24-26.

5. Connect the Swivel Base to the TV/VCR.

Position the swivel base with the center hole over the screw location in the center of the bottom of the TV/VCR. Make sure the side with the ball bearing ring is touching the bottom of the TV/VCR. Insert the provided screw. Position the TV/VCR bottom down.

Swivel the TV/VCR into the viewing position.

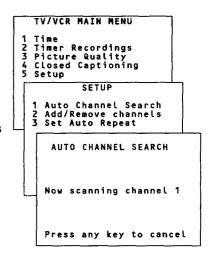
Moving the TV/VCR while it is operating may cause a rainbow effect from the Earth's magnetic field or nearby appliances.

6. Turn on the TV/VCR.

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

7. Put Channels into Memory (Auto Channel Search)

- A. Press MENU on the remote to display the TV/VCR MAIN MENU.
- B. Press 5 to display the SETUP menu.
- C. Press 1 to display the AUTO CHANNEL SEARCH menu.
- D. Allow the TV/VCR to search for all channels. Pressing any buttons during the Auto Channel Search will stop the search and only some channels will be in the TV/VCR's memory. When the search is finished the TV/VCR will automatically tune to the first channel in its list.



8. Set the Signal Type (optional).

The TV/VCR automatically selects the signal type (cable or antenna) when you auto channel search in step 6. If you want to change the signal type, follow the directions below.

- A. Press MENU on the remote to display the TV/VCR MAIN MENU.
- B. Press 5 to display the SETUP menu.
- C. Press 5 to change the Signal Type.

```
TV/VCR MAIN MENU

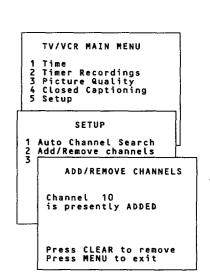
1 Time
2 Timer Recordings
3 Picture Quality
4 Closed Captioning
5 Setup

SETUP
1 Auto Channel Search
2 Add/Remove channels
3 Set Auto Repeat
4 Auto Play: ON
5 Signal Type: CABLE
```

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

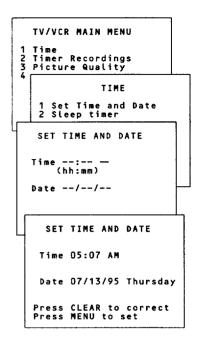
You may want to add or remove channels if some of them are not active, have weak signals, or you do not want them in your channel memory. A channel that has been removed can still be selected by pressing number buttons.

- A. Press MENU on the remote to display the TV/VCR MAIN MENU.
- B. Press 5 to display the SETUP menu.
- C. Press 2 to display the ADD/REMOVE CHANNELS screen.
- D. Follow the directions on the screen to add or remove a channel.
- E. Add or remove more channels by entering the channel number or pressing CHANNEL up or down.



10. Set the Time and Date (Clock).

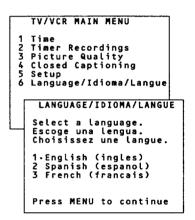
- A. Press MENU on the remote to display the TV/VCR MAIN MENU.
- B. Press 1 to display the TIME menu.
- C. Press 1 to display the SET TIME AND DATE screen.
- D. Use the number buttons on the remote to enter the time including AM or PM, month, day, and year. The day of the week will automatically appear after you enter the year.
 - Press 0 before single-digit numbers. Press 1 for AM or 2 for PM.
 Example: press 0, then 5, then 0, then 7, then 2 for a time of 5:07 PM.
 - Press CLEAR on the remote at any time to change incorrect entries.
- E. Press MENU on the remote to start the clock.To display the time and date, press DISPLAY on the remote.
- F. Press MENU or 0 twice to exit and return to TV viewing.



11. Select the language. (Escoge una lengua.)

This feature lets you select English or Spanish as the language for the menu screens on the TV/VCR.

- A. Press MENU on remote to see the TV/VCR MAIN MENU.
- B. Press 6 to display the LANGUAGE/IDIOMA/LANGUE menu. The bullet (•) indicates the language selected.
- C. Press 1 to display the menu screens in English. Press 2 to display the menu screens in Spanish. Press 3 to display the menu screen in French.



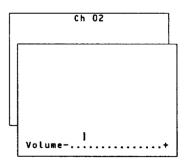
12 Select a channel and adjust the volume.

A. Press CHANNEL up or down or two number buttons on the remote to select a channel.

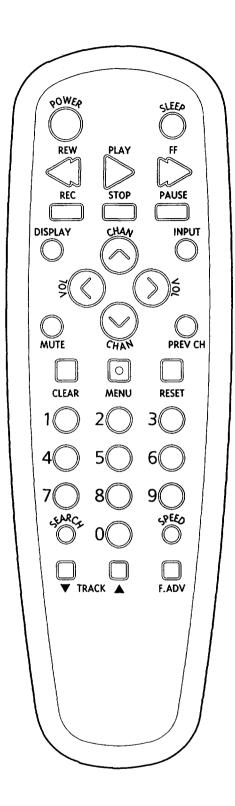
Example: Press 0 then 2 for channel 2. The channel number is displayed.

For cable channels over 99, press and hold 1 until 1— appears. Then press two more numbers. Example: Press and hold 1, then press 0, then press 2, for channel 102.

B. Press VOLUME up or down to adjust the volume. The volume display appears.



Buttons



CHAN A and v (Channel up and down)

Selects next higher or lower channel in channel memory.

CLEAR

Allows you to change menu entries or clear a timer recording.

Resets time counter to 0:00:00 when it is displayed.

DISPLAY

Displays TV/VCR's current status.

Displays time counter when a tape is inserted.

Removes displays.

Advances to next program during program review.

F.ADV (Frame Advance)

Fast forwards the tape through a commercial when a tape is playing.

Advances the tape one video frame at a time when the tape is in PAUSE mode.

FF (Fast Forward)

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

Searches the picture in forward motion during playback.

INPUT

Switches between the signal from a component connected to the AUDIO and VIDEO INPUT jacks and TV signal.

MENU

Displays the TV/VCR MAIN MENU.

MUTE

Turns sound on or off.

Buttons

Numbers (0 through 9)

Select a channel up to 99 by pressing two numbers.

Select a cable channel over 99 by pressing and holding 1 until 1— appears on the screen. Then press the other two numbers.

PAUSE

Pauses the tape during playback.

Pauses recording to prevent recording of unwanted scenes.

PLAY

Plays a tape.

POWER

Turns TV/VCR on or off.

PREV CH (Previous channel)

Switches between the last two channels.

Select one channel and then select the other using the number buttons. Press PREV CH to switch between the two channels.

REC (Record)

Starts TV/VCR recording.
Used for one touch recording.

RESET

Resets video functions to factory settings. Used to reset time for wake-up timer (alarm).

REW (Rewind)

Rewinds the tape when the TV/VCR is stopped.

Searches the picture in reverse motion during playback.

SEARCH

Operates Commercial Skip during TV viewing.

Displays INDEX, ZERO, and BLANK search screens when tape is inserted in the TV/VCR.

Operates Commercial Scan by advancing tape 60 seconds during playback.

SLEEP

Sets TV/VCR to automatically turn off in 30, 60, 90, or 120 minutes. See page 10.

SPEED (Tape Speed)

Selects a recording speed (SLP, SP, or LP).

STOP

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

TRACK ▲ and ▼

(Tracking up and down)

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

VOL < and > (Volume up and down)

Raises and lowers sound.

Using the TV/VCR Features

On-Screen Displays

When you change channels, adjust volume, or use a VCR feature, on-screen displays appear to let you know the status of the TV/VCR.

To Call Up On-Screen Displays

- Press DISPLAY to display the function, time counter, date, time, and tape speed.
 If you do not press DISPLAY again, these displays will time out.
- 2. Press DISPLAY again:
 - No tape in TV/VCR: Displays removed.
 - Tape in TV/VCR: Time counter remains on screen. Will not time out. Press DISPLAY again to remove the time counter.

Adjust the Video

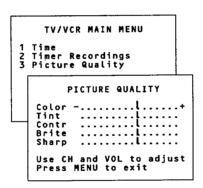
Use the PICTURE QUALITY menu to adjust the picture for your personal preference. The TV/VCR will remember the settings you select.

To Adjust Video

1. Press PICTURE on the front of the TV/VCR to display the PICTURE QUALITY MENU

-OR-

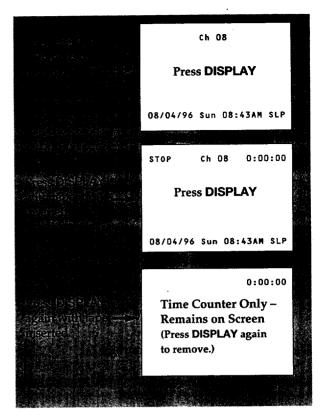
Press MENU on the remote to display the TV/VCR MAIN MENU. Press 3 to display the PICTURE QUALITY menu.



- 3. Press CHANNEL up or down to choose the function you want to adjust.
 - Select Color to adjust color intensity.
 - Select Tint to adjust for natural fleshtones.
 - Select Contr (contrast) to adjust picture contrast.
 - Select Brite (brightness) to adjust picture brightness.
 - Select Sharp to adjust picture sharpness.
- 4. Press VOLUME up or down to adjust the function selected.

To Return Video to the Factory Settings

Press RESET to reset the video to the levels set at the factory.



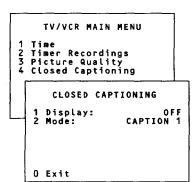
Using the TV/VCR Features

Closed Captioning

Closed captioning displays the sound 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.

To View Closed Captioning

- 1. Press MENU to display TV/VCR MAIN MENU.
- 2. Press 4 to display the CLOSED CAPTIONING menu.
- 3. Press 1 to change the Display.
 - There are three choices: OFF, ON, and ON WHEN MUTED.
 - Each time you press 1 the Display will change on the Closed Captioning menu screen.
- 4. Press 2 to select the Mode.
 - There are four choices:
 Caption 1, Caption 2, Text 1, and Text 2.
 - Each time you press 2 the Mode will change on the Closed Captioning menu screen.



Commercial Skip

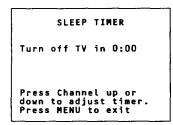
Commercial Skip allows you to scan other channels during commercials. Each time you press SEARCH while watching TV the Commercial Skip timer increases 30 seconds up to four minutes. The TV/VCR will automatically switch back to the original channel when time runs out. To cancel Commercial Skip, keep pressing SEARCH until Skip Timer disappears from the screen.

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 to display the TV/VCR MAIN MENU.
- 2. Press 1 to display the TIME menu.
- 3. Press 2 to display the SLEEP TIMER screen.



- 4. Press CHAN up or down to select 30, 60, 90, or 120 minutes.
- 5. Press MENU to exit.

Press DISPLAY to check the amount of time remaining before the TV turns off.

To cancel the sleep timer, display the SLEEP TIMER, and repeatedly press CHAN until 0:00 is displayed on the screen.

Wake-Up Timer

The 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.

- 1. Press MENU to display the TV/VCR MAIN MENU.
- 2. Press 1 to display the TIME menu.
- 3. Press 3 to display the WAKE-UP TIMER menu.

```
WAKE-UP TIMER

Channel 12
Time 05:07 AM

Press RESET for --:--
Press MENU to exit

WAKE-UP TIMER

Channel 12
Time 05:07 AM

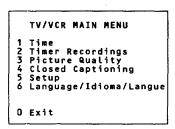
Press CLEAR to correct
Press RESET for --:--
Press MENU to exit
```

- 4. Use the number buttons to enter the channel number and time.
 - After you enter the time, press 1 for AM or 2 for PM.
 Example: press 0, then 5, then 0, then 7, then 2, for a time of 5:07PM.
 - Press CLEAR to correct an entry or RESET to cancel the timer.
- 5. Press MENU to set the timer.
 - The wake-up timer will turn on the TV/VCR every day. The WAKE-UP indicator lights on the front when the wake-up timer has turned on the TV/VCR.
 - Press any button on the remote or TV/VCR to turn off the WAKE-UP indicator. If you do not press a button, the TV/VCR turns off after 60 minutes.

To Cancel the Wake-Up Timer

Follow steps 1-3 above, press RESET to cancel the timer, and then press MENU to exit.

The timer is also canceled if MENU is pressed before step 4 is completed.

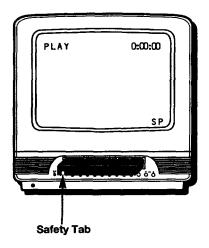


```
TIME

1 Set Time and Date
2 Sleep Timer
3 Wake-up Timer
```

Operating Instructions

To Play a Tape



1. Insert a tape in the TV/VCR.

TV/VCR automatically turns on. The tape automatically begins to play if the safety tab on the cassette has been removed and the Auto Play feature has been turned on.

2. Press PLAY, if necessary.

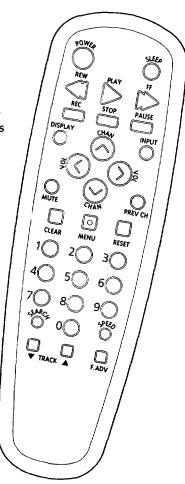
PLAY and the time counter appear on the screen.

- 3. If necessary, press TRACKING up or down on the remote or CHANNEL up or down on the TV/VCR to remove any streaks from the picture. *Details are on page 13*.
- 4. Press STOP on the remote or STOP/EJECT on the TV/VCR to stop playback.
- 5. Press REW.

The TV/VCR will automatically rewind the tape if it reaches the end of the tape during playback. While rewinding, you can press POWER to turn off the TV/VCR and the TV/VCR will still rewind the tape.

Press 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.



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.

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

Frame Advance

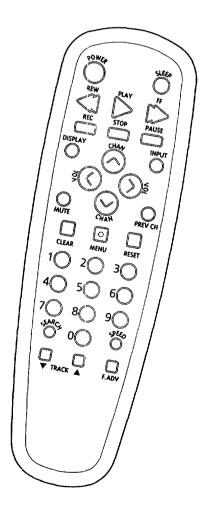
Frame advance lets you view the video tape one frame at a time. Frame advance works best for tapes recorded in SLP speed.

- 1. Press PAUSE during playback to pause the action.
- Press F.ADV each time you want to view a frame of the scene.
 - Press and hold F.ADV to view the tape in slow motion, frame-by-frame.
- 3. Press PAUSE or PLAY to return to playback.

Picture Search

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

- During playback, press FF to search forward or REW to search in reverse.
 - If you start searching within five seconds of a previous search, the search speed will be slower for approximately eight seconds.
- 2. Press FF or REW again, or press PLAY to return to playback.



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 or the TV/VCR's power is turned on.

Manual Tracking

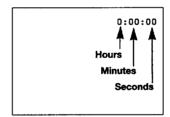
Occasionally, you may need to manually adjust tracking on a tape recorded on a different VCR or camcorder. Tracking is used when playing a tape. It has no effect during recording.

- When streaks or snow appear in the picture during normal playback or slow motion, press TRACKING up or down on the remote or CHANNEL up or down on the TV/VCR for the best possible picture.
- To turn automatic tracking back on, press and hold both of the CHANNEL buttons on the front of the TV/VCR.

Time Counter

The time counter helps locate the beginning or end of programs you taped. The time counter automatically resets to 0:00:00 whenever a tape is inserted, or you can press CLEAR when the time counter is displayed. 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.

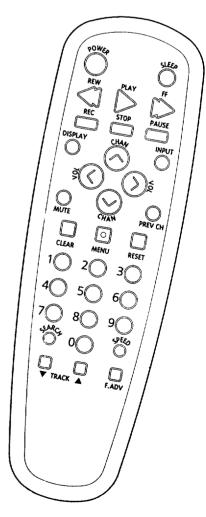


Press DISPLAY twice to display the time counter and fast forward the tape until 31 minutes appears on the screen. Then you can begin recording a second program.

Commercial Scan

This is useful for skipping commercials or short program segments.

Press SEARCH during playback to advance the tape approximately 60 seconds.



Auto Play Feature

This feature enables the TV/VCR to automatically start playing a tape when it is inserted. (The safety tab on the tape must be removed.)

- 1. Press MENU to display the TV/VCR MAIN MENU.
- 2. Press 5 to display the SETUP menu.
- Press 4 to change the Auto Play setting.The Auto Play feature is set to ON at the factory.
 - Select ON if you want a tape with its safety tab removed to start playing automatically.
 - Select OFF if you do not want a tape with its safety tab removed to start playing automatically.

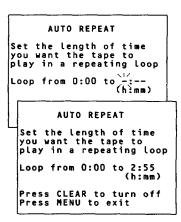
1 Time 2 Timer Recordings 3 Picture Quality 4 Closed Captioning 5 Setup 6 SETUP 1 Auto Channel Search 2 Add/Remove Channels 3 Set Auto Repeat 4 Auto Play: ON 5 Signal Type: CABLE

TV/VCR MAIN MENU

Auto Repeat Feature

This feature tells the TV/VCR to play a tape (or part of a tape) continuously. The TV/VCR will automatically rewind the tape, or a selected portion of the tape, and play it repeatedly.

- Using REW, FF, or PLAY, go to the place on the tape that you want to be the beginning of the section that automatically repeats. Reset the time counter to 0:00:00 by pressing DISPLAY, then CLEAR.
- Using FF or PLAY, go to the place on the tape that you want to be the end of the section that plays continuously. Remember the numbers on the time counter. (2:55 is the end time for AUTO REPEAT in the example to the right.)
- 3. Press MENU to display the TV/VCR MAIN MENU.
- 4. Press 5 to display the SETUP menu.
- 5. Press 3 to display the AUTO REPEAT menu.
- Using the number buttons, enter the amount of time you want the tape to repeat (the number from Step 2).
 In the example at right, the section that the TV/VCR will automatically repeat is 2:55 – two hours, 55 minutes long.
- The REPEAT indicator on the front of the TV/VCR will light when you activate the Auto Repeat feature.
- 8. Press MENU, 5, 3, and CLEAR to cancel Auto Repeat.



Index Search

The TV/VCR automatically records index marks 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. Your TV/VCR has two index playback features. You can select a specific index number or search by scan and play.

To Select Scan and Play Index Playback

- 1. Insert the pre-recorded tape and press STOP.
- 2. Press SEARCH to display the INDEX SEARCH screen.
- Press FF to scan forward or REW to scan in reverse.When the TV/VCR locates an index mark, it will stop and play a few seconds of the program following the mark.
- At any time during the search, press PLAY to stop searching and begin playback, or press STOP to stop the search.

If the beginning or end of the tape is reached during the search, End of tape appears.

To Select a Specific Index Number for Index Playback

- 1. Insert the pre-recorded tape and press STOP.
- 2. Press SEARCH to display the INDEX SEARCH screen.

INDEX SEARCH

Press REW or FF
to begin search
or
Enter a specific
Index number

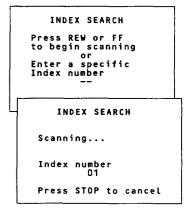
Press SEARCH to exit

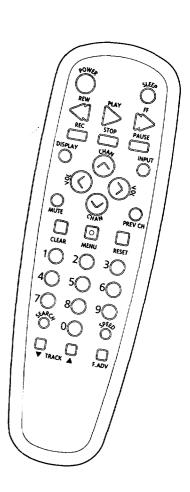
- Use the number buttons to enter the number of the index mark you want the TV/VCR to search for.
- 4. Press FF to search forward or REW to search in reverse.

When the TV/VCR locates the index mark, it will begin playback.

When using index playback, the following index marks may be skipped by the TV/VCR.

- The mark closest to the current location on the tape.
- The mark at the beginning of a recorded segment that is five minutes or less.
- The mark at the beginning of the tape.





Zero Search

This feature allows you to quickly return to a time counter reading of 0:00:00. This is especially convenient when you want to watch a segment of the tape several times.

- 1. Insert the pre-recorded tape. Press STOP.
- 2. Press DISPLAY twice to display only the time counter.
- Use PLAY, FF, or REW to locate the start of the segment you want to repeat.
- 4. Press CLEAR to reset the time counter to 0:00:00.
- Continue playing the tape and press STOP when you reach the end of the segment you want to repeat.
- 6. Press SEARCH twice to display the ZERO SEARCH screen. The current time counter is displayed.

ZERO SEARCH

Current tape counter is 0:12:34

Press REW to go to 0:00:00

Press SEARCH to exit

ZERO SEARCH

Current tape counter is -0:12:34

Press FF to go to 0:00:00

Press SEARCH to exit

Press REW to return to 0:00:00. The time counter is displayed in the upper right corner of the screen during the search. If the current time counter has a minus in front of it, press FF.

Blank Search

The TV/VCR will search for blank portions of the tape that are more than six seconds in length.

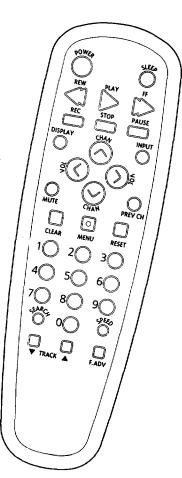
- 1. Insert the pre-recorded tape and press STOP.
- 2. Press SEARCH three times to display the BLANK SEARCH screen.

BLANK SEARCH

Press FF to begin searching for blank section of tape.

Press SEARCH to exit

- 3. Press FF to begin searching for a segment that is at least six seconds of blank tape.
- 4. Press STOP to stop BLANK SEARCH.



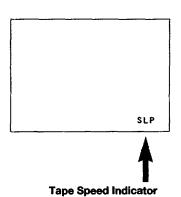
Recording Features

Recording Speeds

Press SPEED to select a recording speed.

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

- 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.
- SLP (Super Long Play) gives three times the recording time of tapes recorded in SP. Special effects such as pause, slow motion, picture search, and frame advance work in this speed.
- LP (Long Play) gives twice the recording time of tapes recorded in SP. Special effects are not recommended in this speed.



Recording Pause

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

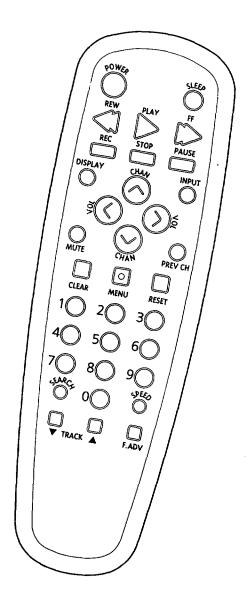
Press PAUSE during recording to stop and start recording.

The TV/VCR will automatically switch from pause to stop after a few minutes to prevent tape wear.

Child Lock

This feature locks the TV/VCR to prevent anyone from using it. The TV/VCR must be ON and the remote control used in order to activate Child Lock.

- Press and hold the POWER button on the remote for six seconds to turn on the Child Lock feature.
 The TV/VCR turns off and the POWER indicator blinks six times.
- Press and hold the POWER button on the remote for six seconds to turn off the Child Lock feature.
 The POWER button blinks six times and the TV/VCR turns on.



Types of Recordings

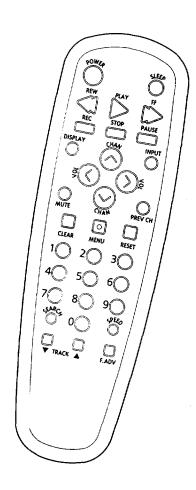
Your TV/VCR provides different ways to record which are explained in the following sections:

Basic Recording
One Touch Recording
Timer Recording
Copying and Editing Tapes

Basic Recording

How to Make a Recording

- 1. Insert a tape with safety tab in place.
- Press SPEED to select a recording speed.The tape speed indicator appears.
- Select the channel to be recorded.
 If recording from the AUDIO/VIDEO INPUT jacks, press INPUT or 00 to select the line input (VIDEO).
- Press REC to begin recording.
 The indicator in the REC button on the front of the TV/VCR turns on during recording and RECORD appears on the screen.
- 5. Press STOP/EJECT on the TV/VCR or STOP on the remote to stop recording.



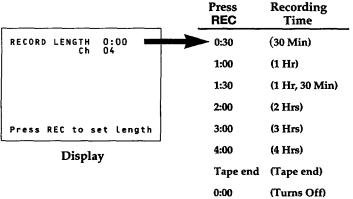
One Touch Recording

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.

How to Use One Touch Recording

- Insert a tape with safety tab in place.
 The TV/VCR will turn on.
- Select the channel to be recorded.If recording from the AUDIO/VIDEO INPUT jacks, press INPUT or 00 to select the line input (VIDEO).
- Press SPEED to select a recording speed.
 You can also change the speed of the recording in progress.
- 4. Press REC to activate recording.
- Press REC repeatedly until the desired amount of recording time is displayed.

Each time you press REC, the recording time increases by 30 minutes — up to tape end.



The indicator in the REC button on the TV/VCR's front panel will light during recording.

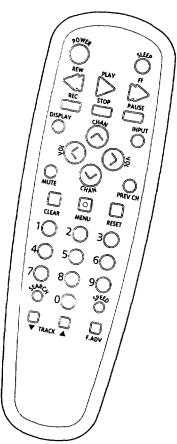
During one touch recording, press REC to display the time remaining on the screen. Press REC again to increase the recording time.

Stopping a One Touch Recording in Progress

Press and hold STOP/EJECT on the TV/VCR or STOP on the remote for a few seconds to stop the recording.

— OR —

Repeatedly press REC until RECORD LENGTH 0:00 appears. The recording stops after a few seconds.



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 to display the TV/VCR MAIN MENU.
- 2. Press 2 to display the TIMER RECORDINGS menu.
- 3. Press 1 to Create a New Program.
- 4. Press 1, 2, 3, or 4 to select the type of program.
 - 1 One time single program recorded once.
 - 2 Daily program recorded at same time every day.
 - 3 Weekdays program recorded at same time Monday through Friday.
 - 4 Weekly program recorded at same time once a week.
- Press number buttons to enter the channel number, start time including AM or PM, end time, and start date of the recording. Just follow the on-screen prompts.
 - If recording from the AUDIO/VIDEO INPUT jacks, press INPUT or 00 to select the line input (VIDEO) instead of a channel.

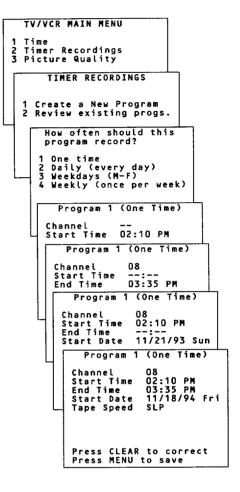
Press CLEAR to correct an entry.

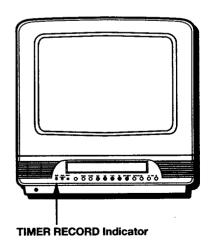
- 6. Press SPEED to select a recording speed.
- 7. Press MENU to save your program.
- 8. Repeat steps 3 6 for additional programs.
- Insert a tape with safety tab intact before the recording is to begin.

The TIMER REC indicator lights in the TV/VCR's front panel.

If you turn the TV/VCR off, the TIMER indicator will flash if there isn't a cassette in the TV/VCR.

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





Timer Recording

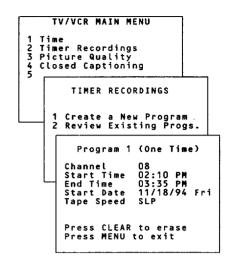
Checking or Clearing Timer Recordings

- Press MENU on the remote to display the TV/VCR MAIN MENU.
- 2. Press 2 to display the TIMER RECORDINGS menu.
- 3. Press 2 to Review Existing Progs.
- 4. Press CLEAR to erase a program.
- 5. Press MENU to review the next program.

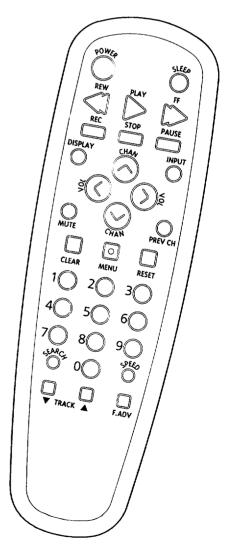
Stopping A Timer Recording

 Press STOP/EJECT on the TV/VCR or STOP on the remote while the timer recording is in progress.

Only *today's* timer recording is cancelled by pressing stop while the program is in progress. The daily, weekday, or weekly program remains in the timer.



10、100年间基督(基础)。 (F. 1773年度) · 展議



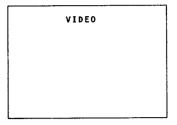
Copying and Editing Tapes

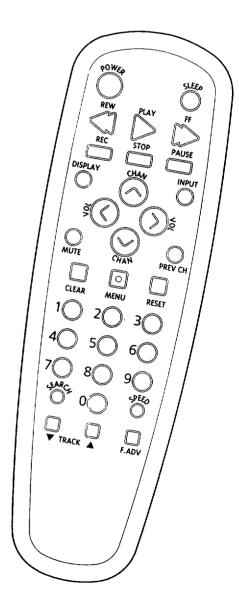
Operating Instructions (Refer to hookup on page 27.)

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

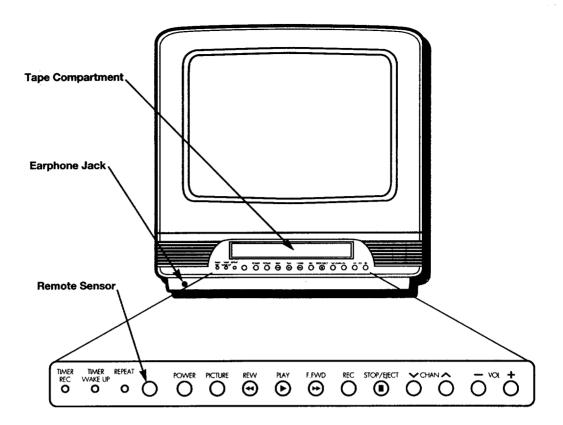
Caution: The unauthorized recording of television programs and other materials may infringe the rights of others.

- 1. Turn on the VCR or camcorder and the TV/VCR.
- 2. Press INPUT or 00 to select the line input (VIDEO).
- 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.
- 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 the tracking. When you reach the place you want to begin copying, place the playback VCR or camcorder in play pause.
- 5. Press REC, then PAUSE, on the TV/VCR's remote.
- 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 by using FF, REW, or PLAY. Press PAUSE on the playback VCR or camcorder. Press PAUSE at the same time on both the VCR or camcorder and the TV/VCR's remote to resume copying.
- Press STOP on both the VCR or camcorder and the TV/VCR's remote when you are finished.
 - Remember to press INPUT on the TV/VCR's remote for normal TV viewing on the TV/VCR.





Front



CHAN A and v (Channel up and down)

Selects next higher or lower channel in the TV/VCR's channel memory.

Used for manual tracking when a tape is playing.

Earphone Jack

Connect an earphone (not supplied) to this jack.

F.FWD (Fast Forward)

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

PICTURE

Displays the PICTURE QUALITY menu. See page 8.

PLAY

Plays a tape.

POWER

Turns the TV/VCR on or off. The indicator in the button is lit when the power is on.

REC (Record)

Press to start TV/VCR recording. The indicator in the button lights during recording.

Remote Sensor

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

REPEAT Indicator

Lights during auto repeat.

REW (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, play, rewind, fast-forward, or pause.

Press when a tape is stopped to eject the cassette.

TIMER REC Indicator

Lights when a timer program has been set and a cassette with safety tab in place is in the TV/VCR.

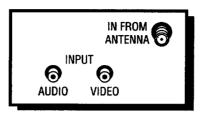
Flashes when a timer recording has been set and the TV/VCR is turned off with no cassette inserted, a cassette with no safety tab has been inserted, or there has been a power interruption.

TIMER WAKE UP Indicator

Lights when the wake-up timer turns on the TV/VCR.

VOL + and - (Volume up and down)Raises and lowers the sound.

Back Panel



IN FROM ANTENNA Jack

Receives the signal from an antenna or cable system.

VIDEO and AUDIO INPUT Jacks

Receive signals from another component, such as a VCR or camcorder, when it is connected to these jacks.

To select these jacks, press INPUT or 00 to display VIDEO.

Hooking Up the TV/VCR

Choosing a Hookup

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

1. How does your TV/VCR receive signals?

Choose one answer from below.

- A. Supplied dipole antenna See page 25, Section A.
- B. Rabbit ears (set-top) and/or bowtie antenna See page 25, Section B.
- C. Outside antenna See page 25, Section B.
- D. 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 box See page 25, Section B.
- B. Cable box to unscramble all channels See page 26, Section A.
- C. Cable box to unscramble only premium channels, such as HBO, Showtime, Cinemax, etc. See page 26, Section B.

Optional Hookup

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

^{*}You may need to contact your local cable company for assistance.

Connect Supplied Antenna, Antenna, or Cable System Without a Cable Box

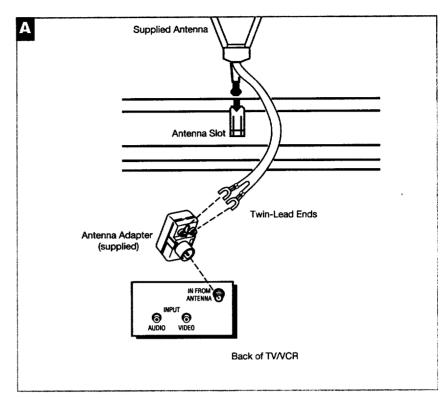
A. Supplied Antenna

Follow these steps to connect the supplied antenna to your TV/VCR. Do not connect this 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 the supplied antenna adapter.
- Connect the antenna adapter to the IN FROM ANTENNA jack on the back of the TV/VCR.
- 4. Plug in the TV/VCR's power cord.
- 5. Turn to page 2 for "Setting Up the TV/VCR."

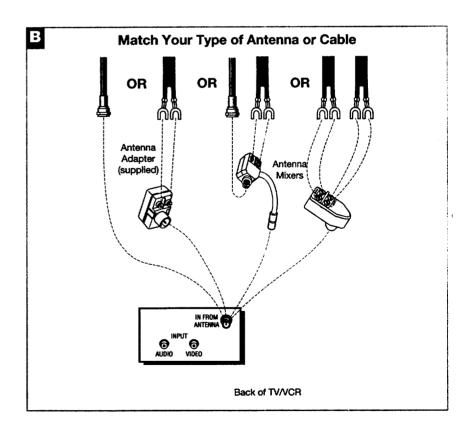
Adjust the length and position of the antenna rods for the best reception.

- For viewing VHF channels, extend the rods fully.
- · For UHF viewing, shorten the rods.



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

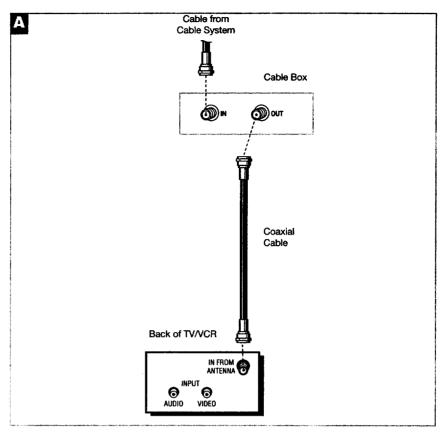
- 1. Connect as shown.
 - This connection may require additional accessories not provided.
- 2. Plug in TV/VCR's power cord.
- 3. Turn to page 2 for "Setting Up the TV/VCR."



Connect a Cable System With a 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."

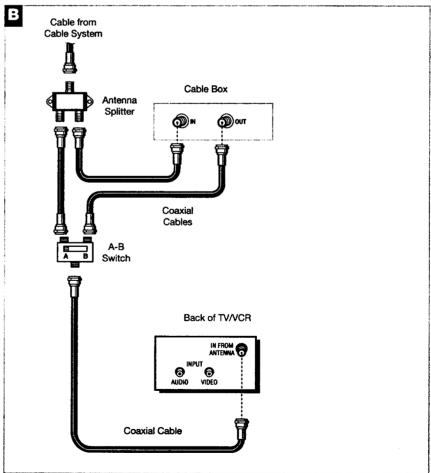


B. Cable Box Required to Unscramble Premium Channels Only

- 1. Connect as shown.
 - This connection requires additional accessories not provided.
- 2. Plug in power cords of TV/VCR and cable box.
- 3. 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."



Connect a VCR or Camcorder for Copying Tapes

A. VCR for Copying Tapes

1. Connect as shown.

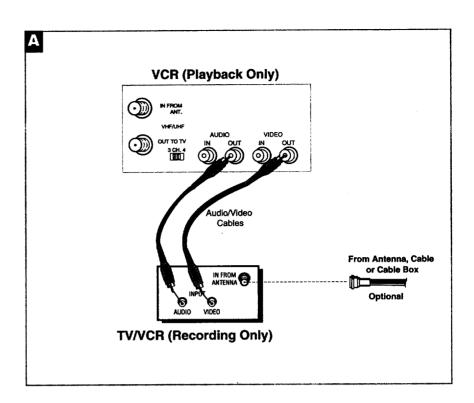
This connection requires additional accessories not provided.

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

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

Press INPUT on the remote to select the line (audio/video) inputs 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- adapter to hear both channels.



B. Camcorder for Copying Tapes

1. Connect as shown.

This connection requires additional accessories not provided.

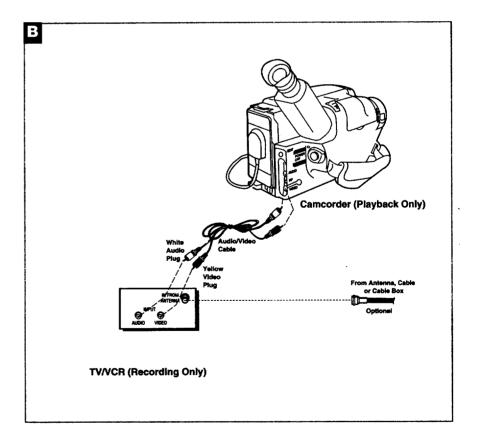
2. Plug in TV/VCR's power cord.

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

Press INPUT on the remote to select the line (audio/video) inputs on the TV/VCR to receive the signal from the camcorder.

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 GE VCR Servicenter.

Problem	Solution		
No power	Plug TV/VCR into an operating outlet. Check connections.		
TV/VCR does not respond to remote	Aim remote at TV/VCR's remote sensor with no objects between them. Change batteries.		
Poor or no picture during TV viewing	 Switch to an active channel. Check antenna connections. If using supplied dipole, try adjusting rods. Check picture adjustments. See page 8. Make sure the line input is not selected. Press INPUT on the remote to switch between audio/video input jacks and tuner. 		
No sound	 Press VOLUME up to increase sound. Sound has been muted. Press MUTE on remote or VOLUME up. 		
Snow or streaks in picture or no picture during playback	 Check tape — it may be worn out or of poor quality. Try another tape. Some snow/streaks are normal during search, pause, frame advance, and slow-motion playback. Press one of the TRACKING buttons on the remote or CHANNEL up or down on the TV/VCR to move the streaks up or down and out of the picture. 		
Will not record or play	 No cassette in TV/VCR. Eject and re-insert cassette. Broken tape — try another cassette. Safety tab removed from cassette — TV/VCR will not record. TV/VCR is in pause mode. Press PAUSE on the remote. 		
Cannot insert or eject tape	 Insert cassette with window facing up and safety tab facing out. To remove cassette, TV/VCR must be connected to working outlet. Turn POWER off and then on before trying to insert or remove cassette. 		
Time counter not working	 Press DISPLAY on remote to display time counter on screen. See page 13. The time counter does not advance during unrecorded portions of tape. When an unrecorded segment of tape is encountered, the time counter will hold its count until recorded material is detected again. A minus (-) will appear in front of the time counter if you rewind the tape farther back than a counter reading of 0:00:00. 		
Rewind does not operate	Tape already rewound.		
Timer recording not made or wrong program recorded	 Program entered incorrectly (wrong channel or times). See page 20. Cable box was not turned on at time recording was to begin. Power interruption. TIMER indicator flashes on front of TV/VCR. 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. 		

Trouble Checks

Problem	Solution
Clock shows incorrect time or date	 Power interruption. TIMER indicator flashes on front of TV/VCR. Clock was not set accurately (check AM/PM and date). See page 4. Need to reset clock for daylight saving time or standard time. See page 4.
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.
Tape plays back in slow motion	Press PLAY to return to normal playback.
Cannot see closed captions on screen	 Closed caption function must be set to on. See page 9. Station may not be broadcasting closed captions.
Box appears on screen	A text feature has been selected. See page 9.
TIMER indicator on front of TV/VCR is flashing	 Power interruption. Check time and date setting (clock). See page 4. Timer program set and TV/VCR turned off with no cassette or cassette with no safety tab inserted. See page 20.
Tape plays over and over	Auto repeat turned on. See page 14.
Tape starts playing automatically	Auto play feature turned on. See page 14.
TV/VCR turns off automatically	Sleep timer turned on. Press POWER to turn TV/VCR back on.
TV/VCR turns on automatically	Wake up timer (alarm) turned on. See page 10.
Cannot record one program while watching a different program	TV/VCR only has one tuner. Only one program can be watched and recorded at the same time.
Power button on front of TV/VCR flashes briefly	Child Lock feature has been activated. See page 17.
VCR functions won't work	Child Lock feature has been activated. See page 17.
Receive same signal on more than one channel when using an antenna	Change Signal Type to Antenna on Setup Menu. Press MENU on remote, 5 for Setup Menu, and 5 again to change the Signal Type.

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

Picture Tube

13-inch measured diagonal 90° deflection

Format:

VHS

Record/Playback

yback

Video: 2-Head

System:

Audio Track: One

Video Signal System:

EIA standard: NTSC color

Antenna:

75-ohm external VHF/UHF combined

antenna terminal

Tuner:

USA:

181 channel tuning capability*

(125 cable channels)

Canada: 178 channel tuning capability*

(122 cable channels)

Type:

Autoprogramming frequency synthesis

Power Requirement:

120V AC, 60 Hz

Power Consumption:

80 watts

Dimensions:

16.07 inches high (408 mm)

14.64 inches wide (366 mm)

14.84 inches deep (371 mm)

Weight:

29.7 pounds (13.5 kg)

Operating

Temperature Range:

+41°F to +104°F

Operating

Humidity Range:

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.)

What we will do:

- Pay any Authorized GE VCR Servicenter the labor charges to repair your TV/VCR.
- Pay any Authorized GE 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 GE VCR Servicenter. To identify your nearest Authorized GE VCR Servicenter, ask your dealer, look in the Yellow Pages, or call 1-800-447-1700.
- 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.

Index

Accessories, included	Dipole Attentia, Confecting
ADD/REMOVE CHANNELS Menu4	DISPLAY Button
Adding Channels to Memory4	DISPLAY Menu
Adjusting the Picture8	Displays, On-Screen
Adjusting Volume5	Editing Tapes
Antenna System, Connecting	Electronic Program Indexing
AUDIO/VIDEO IN Jacks	English Language
AUTO CHANNEL SEARCH Menu	Escoge una Lengua
Auto Play Feature	Factory Settings, Reset
Auto Repeat Feature	Features, Playback
Automatic Tracking	Features, Recording
Back Panel Controls	Features, TV/VCR8-10
Basic Recording	F.ADV (Frame Advance) Button
Batteries, Installing in Remote	FF (Fast Forward) Button
Blank Search Feature	F.FWD (Fast Forward) Button12,15,16,23
BLANK SEARCH Screen	First-Time Operation
Brite (Brightness) Function8	Frame Advance
Buttons, Remote Control	Front Panel Controls
Cable System without Cable Box, Connecting 25	Home Antenna System, Connecting25
Cable System with Cable Box, Connecting 26	Hookups
Camcorder, Connecting to TV/VCR27	Antenna
Captions, Closed9	Cable System With Cable Box for
Cautionsi	All Channels
CHAN Buttons	Cable System With Cable Box for
Channel Memory, Programming3	Premium Channels
Channel, Selecting	Cable System With No Cable Box
Chart, Recording Speeds	Camcorder to Copy Tapes
Checking a Timer Recording	Supplied Antenna
Checking for Trouble	VCR to Copy Tapes
Child Lock	IDIOMA/LANGUAGE Menu
Choosing a Hookup24	Important Information
Cleaning the TV/VCR30	Included Accessories
CLEAR Button	Index Feature
Clearing a Timer Recording	Information, Important
Clock Setting (Setting Time and Date)	INPUT Button
CLOSED CAPTIONING Menu9	Language for Displays
Closed Captions9	LANGUAGE/IDIOMA Menu
Color Function8	Limited Warranty
Commercial Scan	Location of Controls
Commercial Skip9	LP Speed
Connections	Manual Tracking
Antenna	
Cable System With Cable Box for	MODE Menu
All Channels	Note to Cable TV Installer
Cable System With Cable Box for	
Premium Channels	Number Buttons
Cable System With No Cable Box	On-Screen Displays
Camcorder to Copy Tapes	One-Time Program, Recording
Choosing a Hookup	One Touch Recording
Supplied Antenna	Operation
VCR to Copy Tapes	One Touch Record
Contents	Picture, Adjust
Controls Park Parel 24	Play a Tape
Controls, Back Panel	Program Channel Memory
Controls, Front Panel	Record a Program
Controls, Remote	Set the Sleep Timer
Copying Tapes	Set the Weke up Times
Daily Programs, Recording	Set the Wake-up Timer
Date, Setting	Timer Record
Design Specifications	- FAUSE BUILUIL

Index

Pause During Playback12	the Date	
Pause During Recording	the Time	
Picture, Adjusting8	Up the TV/VCR	
PICTURE QUALITY Menu8	SETUP Menu	
Picture, Reset to Factory Settings8	Sharp Function	
Picture Search	SLEEP Button	6,7,10
Picture Settings8	Sleep Timer	
PLAY Button	Slow Motion	
Playback	SLP Speed	
Auto Play14	Solving Problems	
Blank Tape16	SP Speed	
Commercial Scan	Spanish Language	
Features	Specifications	
Index	SPEED (Tape Speed) Button	6.7.17.20
Pause	Speeds, Recording	12
Play a Tape11	Start Up	2-!
Repeat14	STOP Button	
Zero16	STOP/EJECT Button	
POWER Button and Indicator3,6,7,17,23	Stopping a Timer Recording	
PREV CH (Previous Channel) Button	Stopping a Timer Recording	
	Tab, Safety	
Problem Solving	Table of Contents	
Product Registration Card		
Programming Channel Memory	Tape, How to Play	
REC (Record) Button and Indicator .6,7,18,19,22,23	Tapes, Copying	
Recording	Tapes, Editing	
Basic	Text Mode, Closed Captioning	
Features	Time Counter	
One Touch	TIME Menu	
Pause	Time, Setting	
Speeds and Chart	TIMER Indicator	
Timer20	Timer Recording	
Registration Cardi	Checking	
Remote Batteries, Installing	Clearing	
Remote Control Buttons	Setting	
Remote Sensor	Stopping	
Removing Channels from Memory4	Tint Function	
REPEAT Indicator14,23	TRACKING Buttons	
RESET Button	Tracking, Automatic	
Resetting Picture to Factory Settings8	Tracking, Manual	
REW (Rewind) Button	Trouble Checks	
Safety Tab	Turn on TV/VCR	
Scan and Play Index-Feature	TV/VCR MAIN MENU	. 4,5,8-10,14,20,2 1
Scan, Commercial	TV/VCR Setup	2-5
SEARCH	Types of Recordings	
Blank	VCR, Connecting to TV/VCR	
Button	VHF/UHF Antenna Connector	
Index15	VIDEO/AUDIO IN Jacks	18,20,22,24,27
Picture12	VOL (Volume) Buttons	5,6-8,23
Time Counter16	Volume, Adjusting	
Zero16	WAKE-UP Indicator	
Selecting a Channel5	Warnings	
Selecting a Language for Displays5	Warranty, Limited	
Sensor, Remote	Weekdays (M-F), Recording	
Setting	Weekly Program, Recording	
a One Touch Recording19	ZERO SEARCH Screen	
a Timer Recording20		
.1 (7) 1		



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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.

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