

SAMSUNG

Video Cassette Recorder

Owner's Manual

Hi-Fi **VHS**
SV-C90P



Safety Instructions

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



CAUTION: 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 alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

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

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.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

Certain Canadian programs may be copyrighted and any unauthorized recording in whole or in part may be a violation of these rights.

**To prevent damage which may result in fire or electric shock hazard,
do not expose this appliance to rain or moisture.**

**As an ENERGY STAR Partner, Samsung Electronics America, Inc.
has determined that this product or product model meets the ENERGY
STAR guidelines for energy efficiency**

Important Safety Instructions

- 1. Read Instructions-**All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions-**The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings-**All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions-**All operating and using instructions should be followed.
- 5. Cleaning-**Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments-**Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. Water and Moisture-**Do not use this product near water—for example near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8. Accessories-**Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



9. **Cart Usage**-A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. **Ventilation**-Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. **Power Sources**-This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Grounding or Polarization**-This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection**-Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. **Outdoor Antenna Grounding**-If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

NEC-NATIONAL ELECTRICAL CODE

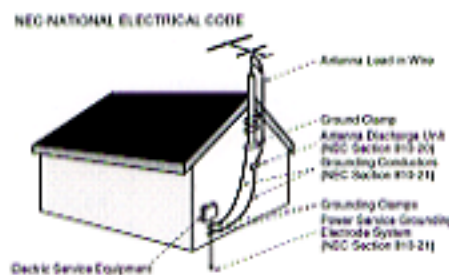

15. **Lightning**-For added protection for this product during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16. **Power Lines**-An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. **Overloading**-Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18. **Object and Liquid Entry**-Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
19. **Servicing**-Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. **Damage Requiring Service**-Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a When the power-supply cord or plug is damaged.
 - b If liquid has been spilled or objects have fallen into the product.
 - c If the product has been exposed to rain or water.
 - d If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e If the product has been dropped or damaged in any way.
 - f When the product exhibits a distinct change in performance-this indicates a need for service.
21. **Replacement Parts**-When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
22. **Safety check**-Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
23. **Heat**-The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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Your New VCR

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Features

- Hi-Fi Stereo sound
- Auto Power off
- Instant Play
- One Touch Recording (OTR) up to four hours
- Tri-lingual on-screen programming (English/Spanish/French)
- Digital Auto Tracking
- Special effects playback, including slow motion
- Built-in HQ (High Quality) video circuitry
- One-month eight event timer programming

Accessories

Check to make sure the following items have been included with your VCR.



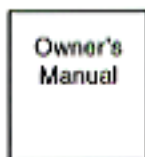
Remote
Control



Batteries for
remote(2AA)



RF-Cable



Owner's Manual



Warranty
Card

Front Panel and Display

SV-C90P



- 1 POWER**
Press to turn the VCR on and off.
- 2 EJECT**
Press to eject a tape or press.
- 3 CASSETTE COMPARTMENT**
Insert a video cassette.
- 4 REW (REWIND)**
Press to rewind in stop mode or reverse search in play mode.
- 5 F.F (FAST FORWARD)**
Press to fast forward in stop mode or forward search in play mode.
- 6 PLAY**
Press to play tape.
- 7 STOP**
Press to stop tape.

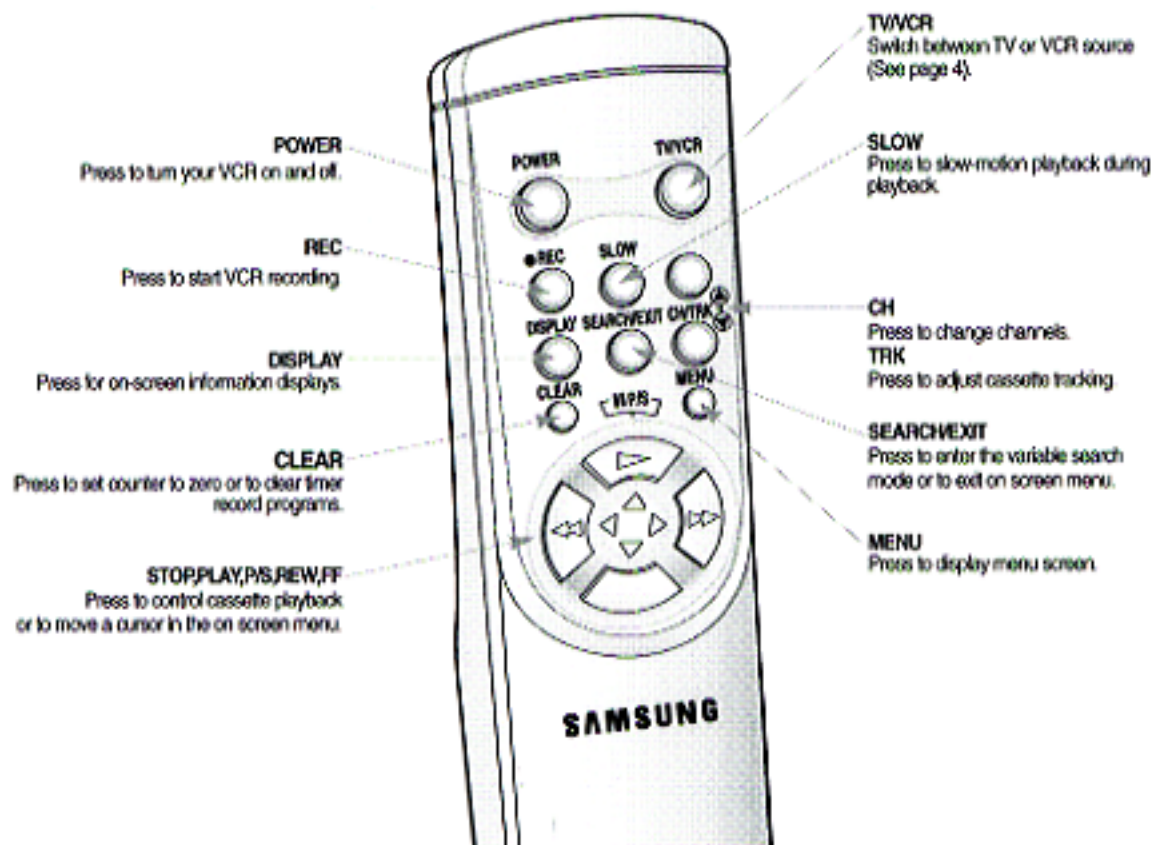
POWER Indicator
Lit when VCR is turned on.



Status and Audio Level Indicator

REC Indicator
Lit when VCR is recording

VCR Remote Control



Remote Control batteries

If you won't use the remote for a long time, remove the batteries and store them in a cool, dry place. Batteries should last about a year. When replacing batteries, use all new batteries, and never mix alkaline and manganese batteries.

- 1 Remove the battery compartment lid by lifting the cover.

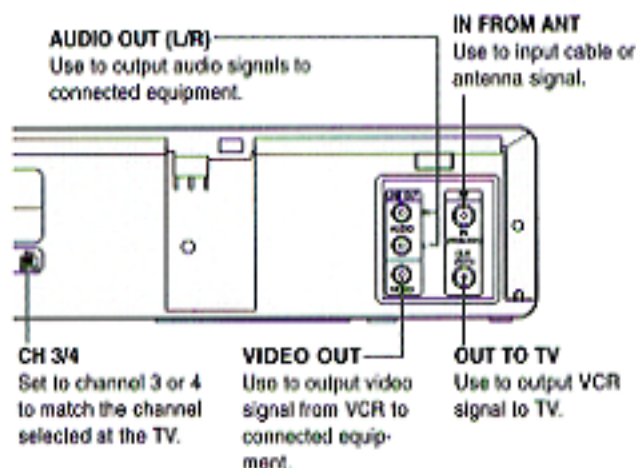
- 2 Insert two AA batteries as shown. Match + and - ends of the batteries as indicated inside compartment.

- 3 Replace the compartment cover.



Rear Panel

Use the jacks on the rear panel to connect the VCR to other components and signals, including: VCRs, TVs, stereo equipment, digital video components, antenna and cable signals.

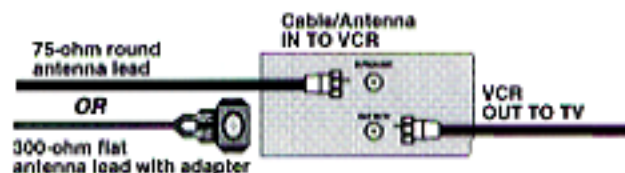


Connections

Antenna Connection

If your outside antenna cable is a 300 ohm flat feeder, use an adapter to connect the antenna to the VCR input terminal. You can purchase an adapter at an electronics store. If your antenna already has a round lead, simply connect it to the terminal on the rear panel of the VCR.

Once your antenna is connected to the VCR, connect a cable from the VCR to your TV from the "Out to TV" terminal on the rear panel of the VCR.



Cable Connections

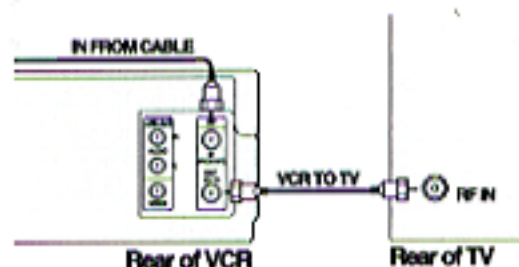
Basic Cable TV Connection

This set-up will enable you to:

- Record an unscrambled channel.
- Watch an unscrambled channel while recording it.
- Record an unscrambled channel while watching another (only when you connect a cable-compatible TV).

You will need to:

- Select TV channel 3 or 4 to receive video signals. (See page 9.)
- To record a channel while watching another, press TV/VCR on the remote control to set the VCR to TV mode and select a desired channel on the TV.



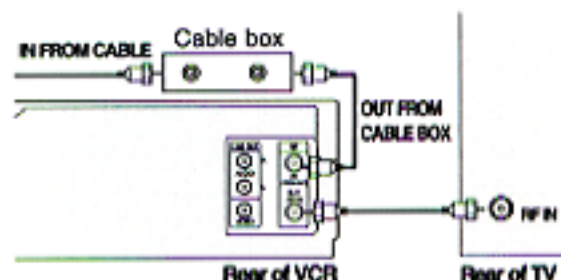
Premium Cable TV Connection 1

This set-up will enable you to:

- Watch an unscrambled or scrambled channel while recording it.
- Record any channels through the cable box.

You will need to:

- Set TV to channel 3 or 4 to receive video signals.
- Set VCR channel to the output channel of the cable box, and select a desired cable channel on the cable box.
- While the VCR is turned off or the VCR is in TV mode, set TV channel to the output channel of the cable box.



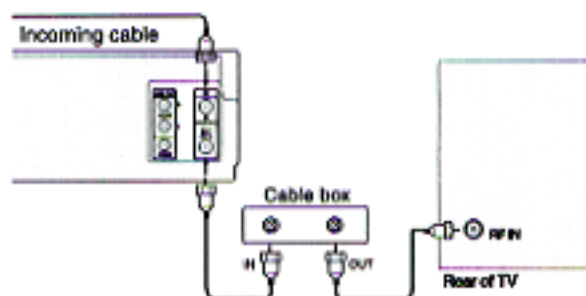
Premium Cable TV Connection 2

This set-up will enable you to:

- Record an unscrambled channel.
- Watch an unscrambled channel while recording it.
- Record an unscrambled channel while watching another (scrambled or unscrambled).

You will need to:

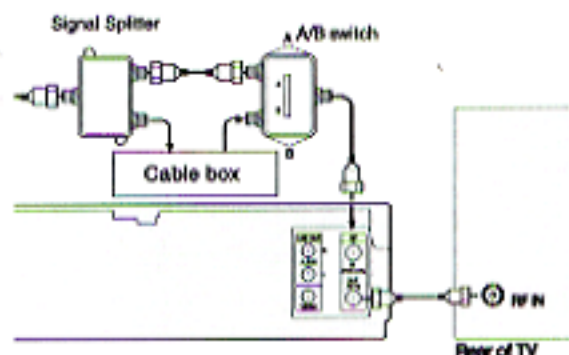
- Set TV channel to the output channel of the cable box.
- Turn on the cable box and select cable channel 3 or 4 according to the output channel of the VCR.
- To record a channel while watching another, press TV/VCR on the remote control to set the VCR to TV mode and select a desired cable channel on the cable box.



Premium Cable TV Connection 3

This set-up will enable you to:

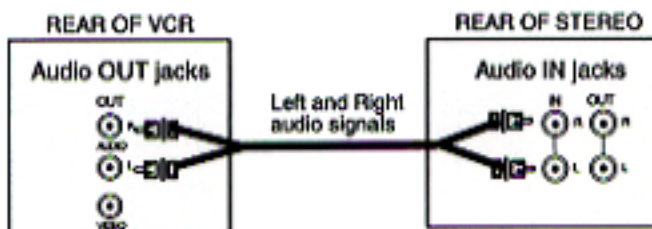
- Watch an unscrambled or scrambled channel while recording it.
- Record an unscrambled channel while watching another unscrambled channel (only when you connect a cable-compatible TV).
- A/B switch "A": Record and watch an unscrambled channel which bypasses the cable box.
- A/B switch "B": Record and watch a scrambled or unscrambled channel coming through the cable box.



External Stereo Connections

Out to Audio System

Connecting your stereo VCR to an external amplifier and speakers can improve the sound quality. The sound from the VCR can be heard through the stereo.



Using Menus and the Remote Control

Your VCR has on-screen menus that allow you to access and control the VCR's programmable features. You will use the buttons on the remote control to work with the on-screen programming.

Each button works not only PLAY, STOP, F.F, REW but also as a shift cursor in the on screen menus.



: PLAY, Pause/Still or ▲ cursor



: STOP or ▼ cursor



: REW or ◀ cursor

MENU



: MENU ON or OFF

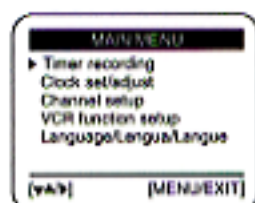


: F.F or ▶ cursor



- 1 Press the MENU button on your remote control. The Main Menu will appear on screen.

- 2 Select the item you want to adjust using the ▼ button followed by the ▶ button on your remote control.



If you want to exit any on-screen menu, simply press the  button on the remote control.

If the main menu does not appear, make sure the TV is tuned to the same channel as the CH3/4 switch on the rear panel of the VCR. Press the TV/VCR button on the remote control to set VCR mode.

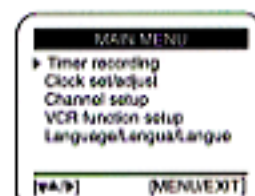
Note: The on-screen menu differs from model to model.

Selecting the On-Screen Language

- 1 To select the language for the on-screen menu display, press the MENU button on the remote control.

- 2 Press ▼ on the remote control to select "Language."

- 3 Press ▶ to select the language you want for the on screen menus (English, Spanish, French).



Setting the Clock

The VCR has an internal clock which is used to turn the VCR on and off for timer recording.

- 1 Press MENU on the remote control. Press ▼ and ► to select "CLOCK SET/ADJUST."



- 2 The first clock setting display appears. To enter the current time, press ▼ or ▲ and press ► to move to the next setting.



- 3 To enter the current month and date, press ▼ or ▲ and press ► to move to the next setting.



- 4 To enter the current year, press ▼ or ▲. The day of the week is automatically added after you set the year.



- 5 Press the MENU button to start the clock. Press the MENU button again when you finish setting the clock.

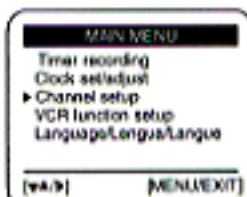
Setting the Channels

When the VCR memorizes all the available channels, you can use the CH $\blacktriangledown$ $\blacktriangle$ buttons to select channels.

Setting the Source

Before the VCR can memorize available channels, you must set the signal source for your VCR.

- 1 With the VCR on, press the MENU button.
Press $\blacktriangledown$ and $\blacktriangleright$ to select "CHANNEL SETUP."



- 2 If you have a cable system hooked up to your VCR, leave CABLE TV displayed in the Ant/Cable screen.



- 3 If you have an antenna hooked up to your VCR, press $\blacktriangleright$ until ANTENNA appears. Press the MENU button when you have selected the correct signal source.

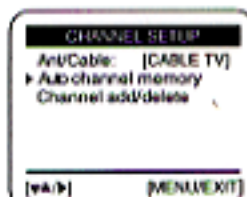


Memorizing the Channels

- 1 Press the MENU button. Press $\blacktriangledown$ and $\blacktriangleright$ to select "CHANNEL SETUP."



- 2 Press $\blacktriangledown$ and $\blacktriangleright$ to start Auto channel memory function.



- 3 Your VCR will begin scanning through available channels. To interrupt, press the MENU button on the remote control. When the channel number on screen stops changing, the VCR has finished.



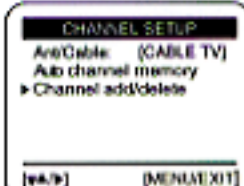
Adding or Deleting Memorized Channels

You can add or delete channels that have been memorized by the Automatic Channel Memory function. The Auto Channel Memory function must be performed before Channel Add/Delete can be used.

- 1 Press the MENU button. Press ▼ and ► button to select "CHANNEL SETUP."



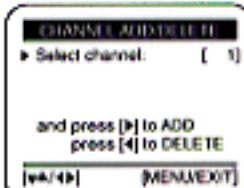
- 2 Press ▼ and ► button to select "Channel Add/Delete."



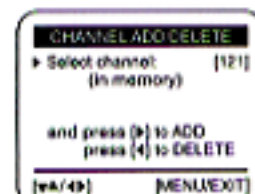
- 3 Press CH ▼▲ for the channel you want to add or delete.

For example : To add a channel, use CH ▼▲.

For example : To delete a channel, use ▼▲.



- 4 To ADD the selected channel: Press ► button on the remote control.
To DELETE the selected channel: Press ◄ button on the remote control.
When you have finished, press the MENU button twice.



VCR Functions

To make all of the VCR's features available, set the VCR functions before playing or recording a tape.

Record speed

- 1 Press the MENU button on the remote control. Press ▼ to select VCR function setup, then press ►.
- 2 Press ► to select the record speed, SP or SLP. (See page 16).
- 3 Press the MENU button when you are finished.



Audio output

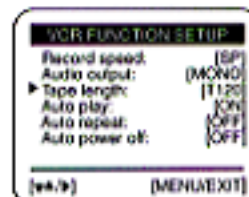
Access the "VCR FUNCTION SETUP" menu as described above.

Press ► to select the audio mode. (See page 19)



Tape length

Access the "VCR FUNCTION SETUP" menu as described. Press ► to select the video cassette length. This information is usually printed on the tape box. The menu cycles through: T120, T160 or T180. Once the type of cassette is set, the VCR can display the amount of time remaining on the tape when you press the DISPLAY button (see page 15).



Auto play

Access the "VCR FUNCTION SETUP" menu as described. Press ▼ to set the cursor to "Auto play" then press ► to set ON or OFF. When "Auto play" is ON, the VCR will automatically begin playing a video tape when it is inserted, as long as the safety tab of the cassette has been removed (see page 16). Press the MENU button on the remote control when you are finished.



Auto repeat

Access the "VCR FUNCTION SETUP" menu.
Press the **▼** and **▶** to set "Auto repeat" ON or OFF.
In the VCR function setup "Auto repeat" sets the VCR to play a tape repeatedly (unless a tape control is activated (stop, fast forward or rewind)). Press the MENU button on the remote control when you are finished.

VCR FUNCTION SETUP	
Record speed:	[SP]
Audio output:	[MONO]
Tape length:	[T120]
Auto play:	[ON]
▶ Auto repeat:	[ON]
Auto power off:	[OFF]
[PA/B]	[MENU/EXIT]

Auto power off

Access the "VCR FUNCTION SETUP" menu.
Press **▼** and **▶** to set "Auto power off" to 1Hr or 2Hr.
"Auto power off" sets the VCR to turn off automatically.

Note: VCR will shut off 1 or 2 hours after the last button is pressed.

VCR FUNCTION SETUP	
Record speed:	[SP]
Audio output:	[MONO]
Tape length:	[T120]
Auto play:	[ON]
▶ Auto repeat:	[OFF]
Auto power off:	[1Hr]
[PA/B]	[MENU/EXIT]

VCR operation

Playing a cassette

- 1 Load a recorded cassette.
Power is automatically turned on.
- 2 Press PLAY to start playback.
When playback starts, the VCR automatically adjusts the tracking for clear pictures and sound.
- 3 To stop playback, press STOP.

Instant play

When the VCR has a tape loaded and power is off, simply press the PLAY button to start tape playback.
You don't need to press the POWER button.

Tape Controls

Play and Pause/Still



- Press the PLAY button on the remote control or on the front of the VCR to play a video. (If Auto play is selected and the video tape has no safety tab, it will begin playing automatically when you insert it in the VCR.)
- In play or slow motion mode, press the STILL button to stop the tape on a single still frame. Press the button again to resume normal viewing. (The VCR automatically stops after five minutes of slow motion or still, so that VCR heads and video tapes are not accidentally damaged.)

Fast Forward and Forward Search



- Press FF when the tape is stopped to fast-forward the cassette at top speed.
- Press FF once while a tape is playing for forward search. Press PLAY to stop search.
- Press and hold to increase speed by 7 times for tapes recorded at SP speed and 21 times for tapes recorded at SLP speed. Release button to play.

Rewind and Reverse Search



- Press Rewind when the tape is stopped to rewind the cassette at top speed.
- Press the Rewind button once while a tape is playing for rewind search. Press PLAY to stop search.
- Press and hold button while tape is playing to increase reverse speed by 7 times for tapes recorded at SP speed and 21 times for tapes recorded at SLP speed. Release button to play.

Slow Motion



Press the SLOW while a cassette is playing for slow motion. Press PLAY to resume normal viewing. (The VCR automatically stops after five minutes of slow motion, pause or still, so that VCR heads and video tapes are not accidentally damaged.)

Variable Search System

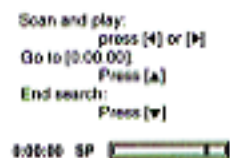
SEARCH/EXIT



Press the SEARCH/EXIT button to display or exit the search screen.

When a program is recorded, the starting point is given an Index mark for easy location. However, the VHS Index Search System(VISS) cannot recognize index marks made by old VCRs. If the VCR has trouble finding a mark, it is probably because the cassette was recorded on a VCR without VISS.

If you want to index two programs in a row, set your VCR to stop. Then start recording each program. Pause has no effect on Index marks.



1. Scan and play

Use scan and play when you don't know exactly where a program is located on a cassette tape.

1. Press ► for forward scan or ◀ for reverse scan.
2. The display will show "Scan and Play".
3. When an index mark is found, the VCR plays for about five seconds.
4. Press PLAY to view that program.

If you don't press PLAY, the VCR automatically searches for the next index, or until the end of tape is reached.

2. Go to 0:00:00 stop

Use this feature when you want to search for the 0:00:00 counter position on a cassette. Press CLEAR at the point on the tape where you want to set the counter to 0:00:00. Later, while a cassette is playing or stopped, press ▲ button. The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.

3. End search

Use this feature when you want to search for a blank position to record a program on a cassette. While a cassette is playing or stopped, press ▼ button. The VCR will rewind or fast forward, searching to a blank position, and then automatically stop at that position.

If the VCR reach the end of tape while end search, it will eject the tape.

Using the DISPLAY Button

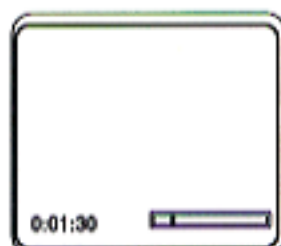
The display function gives you information about the status of your VCR.

Location on screen	Display information
Upper left corner	The VCR function (play, stop or record).
Upper right corner	Channel VCR is tuned to.
Lower left corner	Amount of time that has elapsed since the counter was last reset.
Lower center corner	Tape speed (SP or SLP).
Lower right	Tape remaining graphic



Accessing the DISPLAY screen

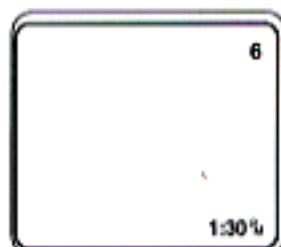
- 1 Press the DISPLAY button while the cassette is playing or recording. After approximately 3 seconds, the display automatically changes, then only the counter and graphic displays are shown.



- 2 Press the DISPLAY button to switch the counter mode between showing the time remaining on the tape and the present time of day.



- 3 Press the DISPLAY button again to remove display from the TV screen.



Note: In order for display information to be accurate, set up the tape length in the VCR Function Setup first (page 11).

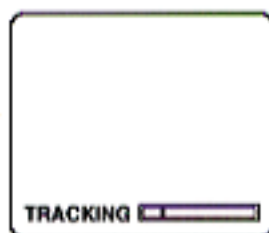
Tracking

For the best picture quality when playing a cassette, the video heads must be aligned with the recorded track. This alignment is called tracking. When playing back a tape, your VCR automatically adjusts the tracking on a video tape, but occasionally a cassette may require some manual adjustment. Keep in mind that picture distortion often occurs at the beginning of a tape.

Automatic Tracking

1 Turn the TV on and insert a cassette into your VCR. Press the PLAY button, if necessary.

2 After a few seconds of auto tracking, you would hear the sound from the video tape.



Manual Tracking

Press the TRK buttons on the remote control up or down until the picture improves.

During still mode, press the TRK buttons to reduce picture "jitter" (bouncing up and down). A small amount of "jitter" or some "streaks" are normal during still viewing.

Note: The noise on the screen may not be completely eliminated depending on the tape used, especially when the tape was recorded on another VCR.

About Video Cassette Tapes

Tape speeds

The VCR can record at two tape speeds. The slower speed (SLP) allows the VCR to record more program material on a tape. Tapes recorded at standard speed (SP) provide a clearer picture. Set the tape speed in the VCR Function Setup menu (See page 11). You can refer to the following table:

TAPE	SP (Standard Play)	SLP (Super Long Play)
T-120	2 hrs	6 hrs
T-160	2 hrs 40 minutes	8 hrs
T-180	3 hrs	9 hrs

Record protect tab

Before recording on any video cassette, make sure the record protect safety tab is in place. To prevent accidentally recording over a program, remove the record protect safety tab on the cassette case. To record on a tape with its tab removed, cover the hole with adhesive tape.



Break off plastic safety tab to prevent accidentally recording over important tapes

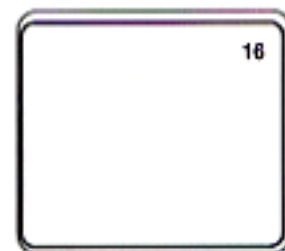
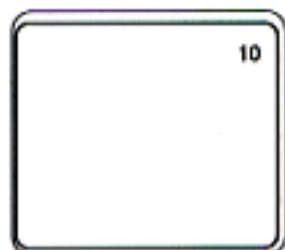


Cover the record protect space with cellophane tape to make a new recording

Recording

Recording while you watch

- 1 Insert a video cassette with the record protect safety tab intact. Check the tape speed.
- 2 Select a channel to record by pressing CH $\blacktriangledown\blacktriangle$.
- 3 Press the REC button on the remote control. The REC indicator will light.
- 4 If you want to edit out unwanted material during recording, you can press the P/STILL button while recording and the VCR will pause. To resume recording, press the P/STILL button again.
- 5 To end recording, press the STOP button.



Separate Recording and Viewing

You can view one channel while recording another program if your VCR is connected to your antenna or cable system. When using a cable decoder box, use an A/B switch.

While recording on one channel, press the TV/VCR button on the remote control to select TV viewing. Select the channel you want to watch with the TV's channel buttons.

One Touch Recording (OTR)

- 1 Insert a video tape, check the tape speed, and select the channel you want to record, using the CH $\blacktriangledown\blacktriangle$.
- 2 Press the REC button on the remote control the number of times that corresponds to length of record time you desire (see chart below). The Record length time appears on the screen.
- 3 The VCR will turn off automatically at the end of the recording time. To stop an OTR recording in progress, press the POWER button on the remote control or on the front of the VCR.



RECORD	Display	Record time
Press once	Record	Not timed.
Press 2 times	0:30	30mins
Press 3 times	1:00	1 hour
Press 4 times	1:30	1 hour + 30 mins
Press 5 times	2:00	2 hours
Press 6 times	3:00	3 hours
Press 7 times	4:00	4 hours
Press 8 times	Record	Not timed

Timer Recording

The Timer feature allows you to set the VCR to automatically record up to eight different programs.

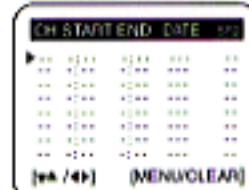
Setting a timer recording

Your VCR can record on a specific day, or every day, Monday through Friday. Daily and weekly programs remain in the timer until erased. A single program is erased after the program records.

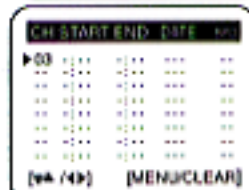
- 1 To display a timer recording list, press the MENU and ► on the remote control.



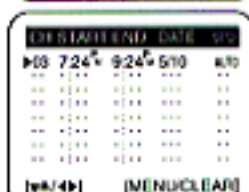
- 2 Press ► and ▲▼ to set the channel. Press ► to move to the next setting.



- 3 Repeat step 2 to set start time, end time, date and record speed. Date can be set for one time, daily or weekly recording. See below.



- 4 Press the MENU button to complete programming the timer recording. Stop the VCR or turn the power off. The VCR will automatically turn on and begin recording at the time you have set. To stop a Timer Recording, press the VCR power button.



Note: When using a cable decoder box or DSS®, make sure the decoder box is on and set to the correct channel for timer recording.

Auto Speed Select

If you are not sure the tape is long enough for timer program recording in the SP tape speed, set the recording tape speed to "AUTO". Recording starts in the SP tape speed. If the tape length is not long enough, the tape speed automatically changes from SP to SLP.

Daily/Weekly Date Programming

Weekly [SUN'S-SAT'S]: You can record TV programs on the same channel at the same time every week.

Daily [MO ► FR]: You can record TV programs on the same channel at the same time everyday Monday through Friday.

Changing or canceling a timer recording

TO CHANGE THE TIMER PROGRAM, repeat steps 1 to 4.

TO CANCEL THE TIMER PROGRAM, select the program you want to cancel in the timer recording list. Press the **CLEAR** button twice on the remote to clear the Timer Program settings. The contents are then cleared.

Choosing Audio

The VCR can record a program in stereo. It can also be set to record the Secondary Audio Program (SAP) of any broadcast with second language audio. The VCR records the same audio on both the Hi-Fi and linear tracks on the tape.

Stereo Programs

- 1 Press **AUDIO** on the remote to select **STEREO**. You can also select **LEFT**, **RIGHT** or **MONO**.

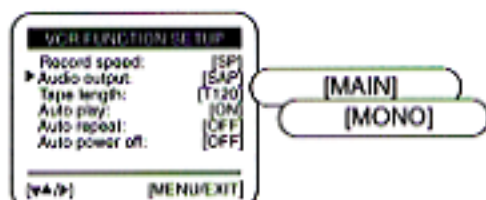
Note: When the stereo sound is poor, press the **AUDIO** button to select **MONO** for sound without noise.



To Record SAP Programs

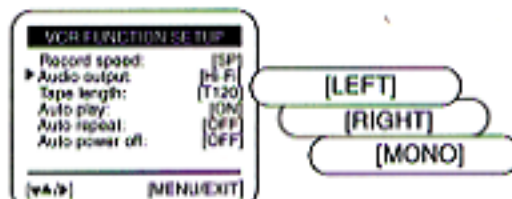
- 2 To select SAP, press the **AUDIO** button on the remote control until "SAP" is displayed on screen. "SAP" will be displayed on the TV screen when a SAP broadcast is received. Press the **REC** button for SAP recording.

•When "MAIN" is displayed, stereo is selected.



Selecting Playback Sound with Hi-Fi Tapes

- 3 During playback, press **AUDIO** to set the Audio to **Hi-Fi**, **LEFT**, **RIGHT** or to **MONO**. When playing a tape that is not Hi-Fi, the audio button will have no effect.



VCR

- Unplug your VCR from the wall outlet before cleaning.
- Use a dry cloth when dusting your VCR.
- Proper ventilation ensures that overheating will not damage electronic circuits. Don't block ventilation holes.
- Take care of your remote control. Keep the remote with your VCR, where it is unlikely to be lost or damaged.
- Keep liquids away from your VCR, including beverages and cleaning liquids. Spilling any liquid on the VCR can damage the electronics, resulting in an electric shock or fire.
- Do not use liquid or aerosol cleaners that can accidentally get into the VCR, causing damage or creating a fire hazard.
- Do not allow any object to be pushed into the cabinet slots. This includes coins, dusters, cleaning cloths, papers and other objects. Any such objects can connect with a voltage point inside the VCR, causing dangerous shocks, or may short out parts and cause a fire or an electric shock.

Video Head Cleaning

If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. If necessary, purchase a head-cleaning cassette. If the picture quality does not improve after cleaning, call 1-800-SAMSUNG for service.

When cleaning the video heads, read all the instructions provided with the head-cleaning cassette. Incorrect head cleaning can permanently damage the video heads.

Video Cassettes

- High quality, brand-name cassettes often last longer and provide a better picture.
- Rewind your cassettes all the way so that the tape is not at a midpoint. This can extend the life of a cassette tape.
- Do not touch or splice the tape. This can damage the tape, and playing such a tape can damage your VCR. Do not take apart any cassette you plan to use again.
- Do not put any object inside a video cassette case and do not clean inside the cassette. This can permanently damage the tape, making it unusable.

Warranty Information

To ensure proper warranty, please return your registration card within two weeks. Record the model number and serial number from the back of the VCR and the date of purchase in the space on the right. Keep your purchase receipt with this manual for easy reference.

Model Number _____

Serial Number _____

Date Purchased _____

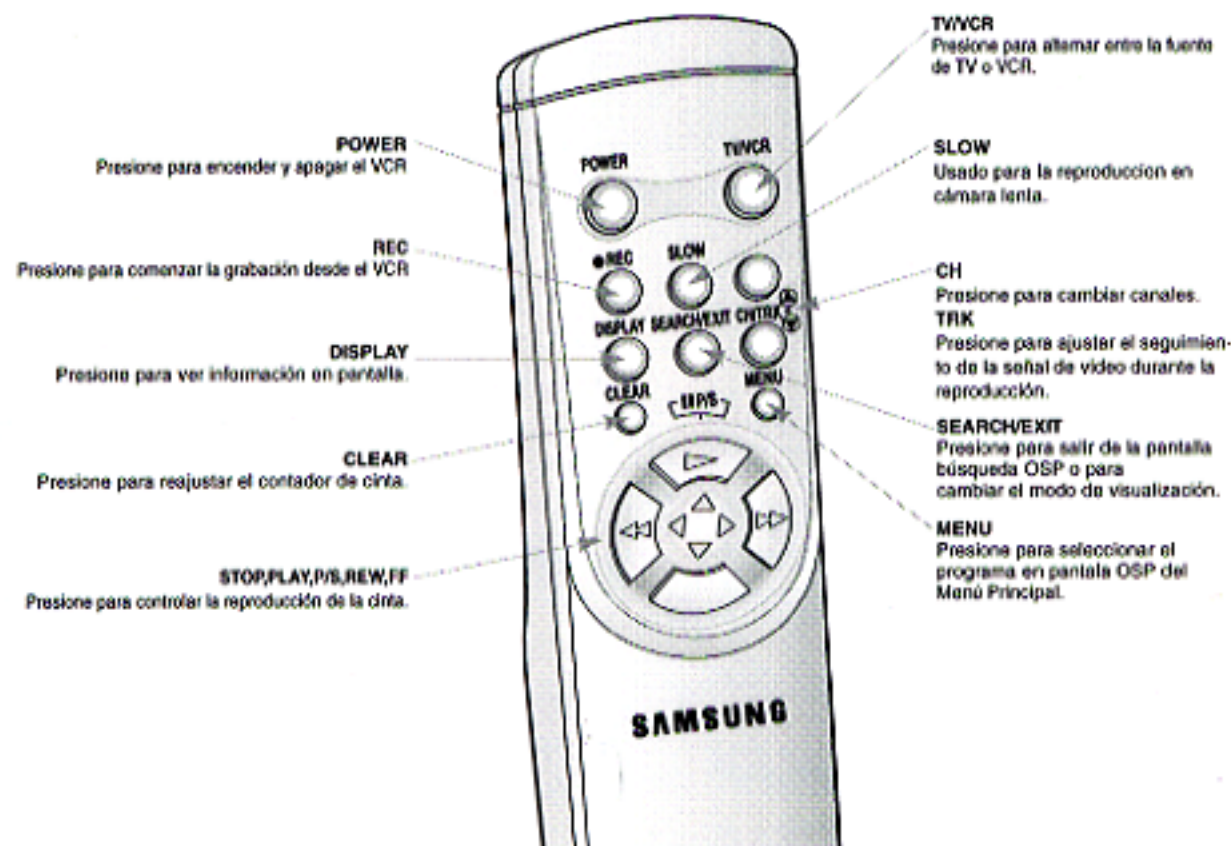
Dealer _____

Before calling for service, check this list of possible problems and solutions to see if the problem can be solved with a simple adjustment.

Problem	Possible Solution
No power	• Make sure the VCR is on and plugged into an operating wall outlet.
A cassette cannot be inserted.	• Press EJECT to see if a cassette is already in the VCR. • Make sure the cassette is window side up, with the arrow facing toward the VCR.
A cassette cannot be ejected.	• Check if the VCR is in stand-by mode for timer recording.
A timer recording did not record.	• Check that your Timer Record settings are accurate. • Make sure the VCR was in STOP or Power Off mode before recording. • Check if there was a power failure or broadcast scheduling change.
No picture, or a distorted picture on playback	• Check if the cassette recorded any picture. • Press TRK to adjust the playback picture. • Press TV/VCR for VCR viewing. • Set the TV channel to match the VCR Output channel. • Make sure the TV is working properly.
No TV broadcast picture	• Press TV/VCR for TV viewing. • Check all cabling between VCR Antenna/Cable and TV. • Make sure the TV is on.
Streaks (noise) on a recorded program	• Press TRK to adjust the picture. • Check all connections. • View another cassette. If the problem persists, clean the video heads. • Copy protection schemes can distort the picture.
Streaks or jitter with the VCR in P/STILL mode	• Press TRK to adjust the picture.
The VCR will not PLAY, RECORD, REWIND or FAST FORWARD	• Check if the VCR is in record pause mode. • Check if the cassette has been rewound.

Control remoto universal

Para controlar los botones VCR, presione primero el botón.



Conexiones de la TV por cable

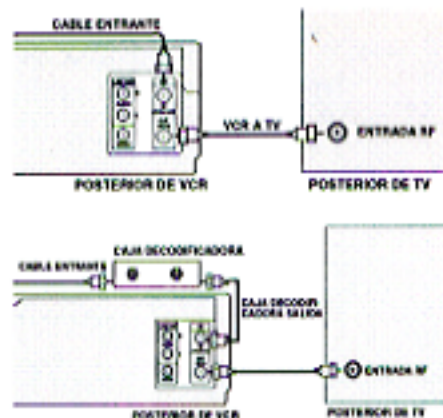
Las compañías locales de TV por cable ofrecen distintos servicios y pueden proporcionar todo tipo de información relativa a las conexiones de cable/VCR.

Conexión básica

(Sin caja decodificadora) Siga este diagrama para conectar el VCR a un sistema básico de TV por cable con un cable coaxial de 75 ohms.

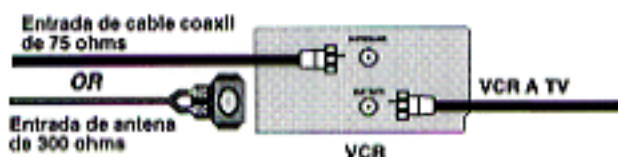
Conexión para ver los canales pagos

(Con caja decodificadora) Algunas compañías de TV por cable proporcionan una caja decodificadora para descifrar o decodificar los canales pagos y/o los canales básicos. Siga el diagrama para conectar el VCR a una caja decodificadora. Coloque el interruptor de Canal de Salida ubicado en la parte posterior del VCR en 3 ó 4 para igualar el canal seleccionado en el televisor.



Conexión de la antena

El VCR cuenta con un convertor integrado para recibir la mayoría de las señales VHF/UHF. Si el cable de la antena exterior es un cable plano de alimentación de 300 ohms, un transformador de acople se debe conectar antes de la terminal de entrada del VCR. Usted puede comprar este transformador en cualquier tienda que venda productos electrónicos.



Reproducción de cintas de videocasete

- 1 Encienda el TV e inserte un casete en el VCR. Presione **PLAY**, si es necesario. Si el Indicador de VCR en el panel frontal no se ilumina, presione **TV/VCR**.

- 2 Después de unos pocos segundos de seguimiento automático, debería escucharse el sonido.

Para Realizar Ajuste de la Hora

- 1 Prenda el VCR y oprima **MENU** para obtener el Menú Principal. Oprima **▼** y **►** para seleccionar el Ajuste de la hora.

- 2 Oprima **▲/▼** y **►** para indicar la hora del día.

- 3 Oprima **▲/▼** y **►** para indicar el mes, la fecha, y dos últimos números que correspondan al año.

- 4 Oprima **MENU** para concluir.

Para Cambiar la selección de Idiomas

Del Menú Principal, oprima **▼** y **►** para seleccionar inglés, español o francés.

Para Realizar Entrada de Ajuste de Canales

- 1 Oprima **MENU**. Tras esto, oprima **▼** y **►** para seleccionar el Ajuste de Canales.

- 2 Oprima **▼** y **►** para comenzar la programación automática de canales. Cuando el número del canal deje de cambiar, se ha realizado la programación.

Specifications

Antenna input/output terminals:	UHF/VHF: 75 Ω F type connector
Signal system:	Standard NTSC
Recording/Playback system:	Recording: VHS format(SP, SLP) Playback: VHS format(SP, LP, SLP)* Video cassette with VHS mark
Record/Play Time:	6 hours with T-120 in SLP mode
Power Source:	110/120/220/240V AC AUTO 50/60Hz
Power Output:	App. 18 watts on; App. 3.8 watts off
Dimensions:	320mm(W) X 94mm(H) X 238mm(D) 12.6"(W) X 3.7"(H) X 11"(D)
Weight:	2.6kg/5.7lbs

Your VCR can receive 68 broadcast TV channels or up to 125 unscrambled cable channels. Check your local cable company for complete compatibility requirements.

Type	Number of Channels	Channel List
On Air	12	VHF (Channels 2~13)
	56	UHF (Channels 14~69)
CATV	113	Channels 14~22 (A~I) Channels 23~94 (J~W+58)and 100~125(W+59-W+84) Channels 95~97 (A~5,A~4,A~3)* Channels 98~99(A~2,A~1)* Channel 01 (5A)*
Total	181	

*These channels are not available in Canada.