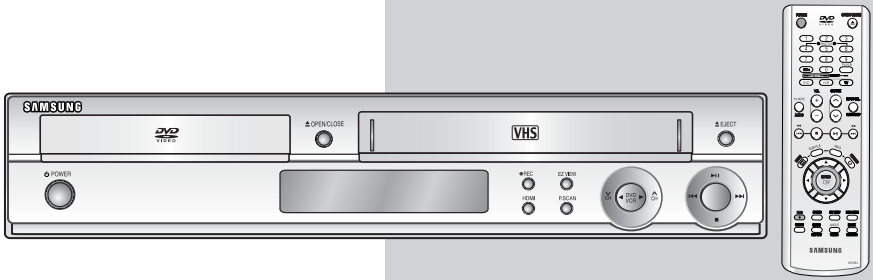
SAMSUNG

Instruction Manual

DVD-V9500



DVD VIDEO VHS Hi-Fi

www.samsung.com

Safety Instructions

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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 is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of fire or electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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 eviter les chocs electriques, introduire la lame le 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.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Before you start

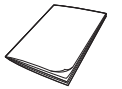
Accessories

Remote Control (AK59-00008A)

Batteries-2EA 1.5V(AAA) (AC43-12002H)

Video/Audio Cable (AC97-01746A)

Antenna Cable (AC39-42001J)

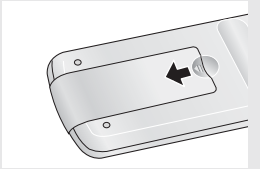

User's Guide

Registration Card

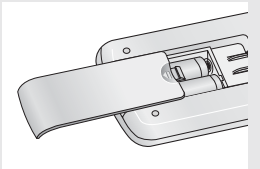
HDMI Cable

Install Batteries in the Remote Control

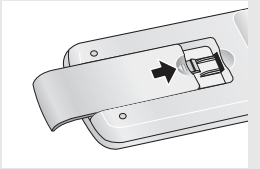
1
Open the battery cover on the back of the remote control.



2
Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.



3
Replace the battery cover.



If the remote control doesn't operate properly:

- Check the polarity +, - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote control sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Table of Contents

Safety Instructions 2
Important Safety Instructions 2
Before you start 3
Accessories.....3
Install Batteries in the Remote Control 3

Chapter 1: Setup

General Features.....6
Disc Type and Characteristics.....7
Description.....8
Tour of the Remote Control.....10

Chapter 2: Connections

Connecting the Antenna Cable 11
Method1: Antenna + DVD-VCR + TV: No Cable box 11
Method2: Antenna + DVD-VCR + TV: Cable box with many scrambled channels 12
Method3: Antenna + DVD-VCR + TV: Cable box with a few scrambled channels 12
Before Connecting the DVD-VCR 13
Connection to a TV 13
Connection to a TV (Video).....13
Connection to a TV (S-Video) 14
Connection to a TV (Interlace) 15
Connection to a TV (Progressive).....16
Connection to a TV with HDMI Jack 17
Connection to an Audio System 19
Connection to an Audio System (2 Channel Amplifier) 19
Connection to an Audio System (Dolby digital, MPEG2 or DTS Amplifier).....20
Connecting a Power Cord & Auto Setup 21

Chapter 3: Initial Setup

Selecting a Menu Language 22
Setting the Clock 23
Setting the Clock Automatically.....23
Setting the Clock Manually 25
Memorizing the Channel 26
Selecting the Video Signal-source 26
Storing Channels in Memory (Automatic Method) 27
Adding and Erasing Channels (Manual Method) 27
Selecting the RF Output Channel 28
Setting the Front Panel Display 29
Setting the Power Off Automatically 30

Chapter 4: DVD Operations

Playing a Disc 31
Using the Search and Skip Functions 33
Using the Display Function 34
Using the Disc and Title Menu (DVD) 36
Using the Function Menu (DVD) 37
Repeat Play 38
Slow Repeat Play 40
Adjusting the Aspect Ratio (EZ View) 41
Selecting the Audio Language 43
Selecting the Subtitle Language 44
Changing the Camera Angle 45
Using the Bookmark Function 45
Using the Zoom Function (DVD) 47
Clips Menu for MP3/WMA/JPEG 48
Folder Selection 48
MP3/WMA Playback 49
Program Play & Random Play.....51
Picture CD Playback 52
Using the Setup Menu 54
Setting Up the Language Features 55
Setting Up the Audio Options 57
Setting Up the Display Options 59
Setting Up the Parental Control 62

Chapter 5: VCR Operations

Inserting and Ejecting a Video Cassette Tape 65
Playing a Pre-Recorded Video Cassette Tape 66
Special VCR Playback Features 67
Using Automatic Tracking 68
Selecting the Cassette Type 69
Setting the Auto Play 70
Setting the Auto Repeat 71
Using the Tape Counter 72
Using the Assemble Edit Function 73
Selecting the Audio Output Mode 74
Searching for a Specific Sequence 75
Basic Recording 77
Special Recording Features 78
Using One-Touch Recording 79
Selecting the Recording Speed 80
Using a Timer Recording 81

Chapter 6: Reference

Using the TV Buttons on the Remote Control 83
Troubleshooting 84
Technical Specifications 86

Chapter 1

SETUP

General Features

DVD-VCR Features

- Perfect compatibility to play back DVDs, audio CDs or VHS Tapes.
- Enjoy a DVD movie while recording a TV show to the VCR.
- Auto Setup instantly finds the time and runs channel search.
- RF inputs and outputs for all kinds of TVs available.
- Composite, S-Video, Component Video and HDMI outputs.
- Remote control provides full operation on DVD-VCR.
- On-Screen Program (English/French/Spanish).

DVD Features

- 10-bit video digital to analog converter and 54MHz advanced digital filter.
- Playback of 96KHz/24-bit sources.
- DTS digital output for DTS-enhanced DVDs.
- Play back MP3-CDs.

VCR Features

- Hi-Fi Stereo VCR.
- Superior slow motion and stop action (with 4 heads).
- Playback of S-VHS tapes with a better than standard resolution.
- INTRO Scan, Zero Return, and END Search.
- 7-event/1 month timer recording.
- Time remaining counter, real time counter.

Note

- Discs which cannot be played with this player.
  - DVD-ROM/DVD-RAM/VCD
  - CDI/CDV
  - Super Audio CD (CD, HD layer)
  - CDGs play audio only, not graphics.
  - DVD-RW (VR mode)
  - Non-finalizing DVD-RW, -R, DVD+RW, and +R disc.
- Ability to play back may depend on recording conditions.
  - DVD-RW, -R/CD-RW/DVD+RW, +R/CD-ROM

Note

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

COPY PROTECTION

Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD-VCR directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

PROGRESSIVE SCAN OUTPUTS (525p)

“CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE, IF 525 PROGRESSIVE SCAN PICTURE PROBLEMS OCCUR, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE ‘STANDARD DEFINITION’ OUTPUT. IF THERE ARE QUESTIONS REGARDING YOUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD-VCR, PLEASE CONTACT SAMSUNG'S CUSTOMER SERVICE CENTER.”

Disc Type and Characteristics

This DVD-VCR is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	5”	Single-sided 240 min. Double-sided 480 min.	- DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. - Various screen and audio functions can be easily selected through the on-screen menu.
		3 1/2”	Single-sided 80 min. Double-sided 160 min.	
AUDIO-CD	Audio	5”	74 min.	- CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		3 1/2”	20 min.	

- CD-R,CD-RW and DVD-RW, -R, DVD+RW, +R discs may not be playable in all cases due to the disc type or condition of the recording.

Disc Markings

	Play Region Number
NTSC	NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.
DOLBY DIGITAL	Dolby Digital disc
STEREO	Stereo disc
DIGITAL SOUND	Digital Audio disc
dts	DTS disc
MP3	MP3 disc

You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD-VCR.

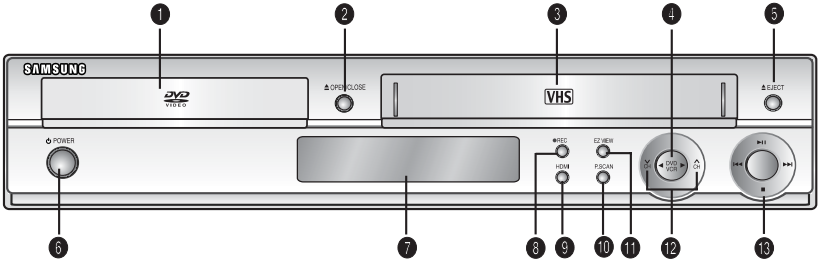
Region Number

Both the DVD-VCR and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is described on the rear panel of the player. North America is Region 1.

Description

Front Panel Controls



1 **DISC TRAY**
Place the disc here.

2 **OPEN/CLOSE**
Press to open and close the disc tray.

3 **VCR Deck**
Insert a standard VHS video tape.

4 **DVD/VCR**
Press to view DVD or VCR mode.

5 **EJECT**
Press to eject a video tape if the tape is stopped.

6 **POWER**
Press to turn the DVD-VCR on and off.

7 **Front Panel Display**
Operation indicators are displayed here.

8 **REC (VCR)**
Press to begin recording.

9 **HDMI**
HDMI Output resolution setup.

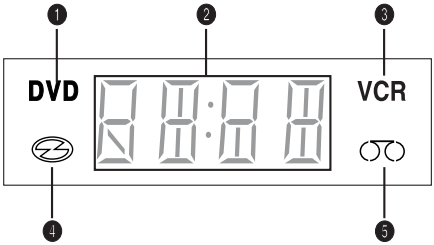
10 **P.SCAN**
Press to select component video out progressive scan mode.

11 **EZ VIEW**
The aspect ratio of a picture can easily be adjusted to your TV's screen size.

12 **CHANNEL ∨ and ∧**
Press to change channels.

13 **◀◀ (Reverse/Rewind)**
Press to reverse/rewind a disc/video tape.
■ (STOP)
Press to stop a disc/video tape during playback or record (VCR).
▶II (Play/Pause)
Press to play or pause the disc/video tape.
▶▶ (Forward/Fast Forward)
Press to forward/fast forward a disc/videotape.

Front Panel Display



1 DVD is activated.

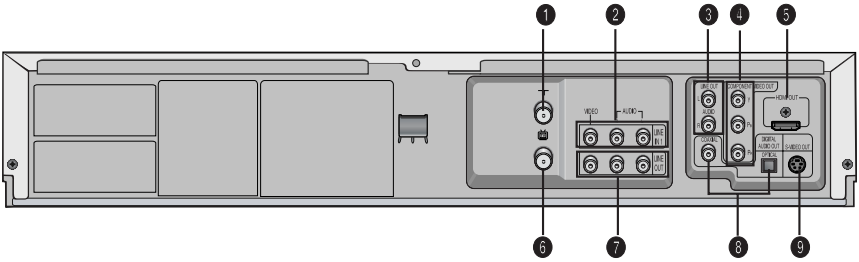
2 The time, counter position, time remaining or current deck status is indicated.

3 VCR is activated.

4 DVD or CD media is loaded.

5 VHS videotape is loaded.

Rear Panel



1 RF IN (FROM ANT.)
Connect the RF Antenna cable to your DVD-VCR.

2 LINE IN 1 (VIDEO/AUDIO)
Connect to the Video/Audio output jack of your external device.

3 AUDIO OUT
Connect to the Audio input jacks of your television.

4 COMPONENT VIDEO OUT
- Use these jacks if you have a TV with Component Video in jacks.
  These jacks provide P_R, P_B and Y video.
- If Component (Progressive Scan) Video Output is selected in the Alt Video Out menu or by using the P.SCAN button on the front panel, progressive scan mode will be enabled.
- If Component (Interlace Scan) Video Output is selected in the Alt Video Out menu or by using the P.SCAN button on the front panel, interlaced scan mode will be enabled.

5. HDMI OUT JACK
- Use the HDMI cable to connect this jack to the HDMI jack on your television for the best quality picture.
- If an HDMI cable is connected to an HDMI-compatible TV, HDMI will be output automatically within 10 seconds.
- If you want to use a Video, S-Video or Component Output, unplug HDMI cable.

6 RF OUT (TO TV)
Connect your DVD-VCR to a TV.

7 LINE OUT (VIDEO/AUDIO)
Use a Video/Audio cables to connect to the Video/Audio input jacks on your television.

8 DIGITAL AUDIO OUT (OPTICAL/COAXIAL)
- Use either an optical or coaxial digital audio cable to connect to a compatible Dolby Digital receiver.
- Use either an optical or coaxial digital audio cable to connect to an A/V Amplifier that contains a Dolby Digital, MPEG2 or DTS decoder.

9 S-VIDEO OUT
Use the S-Video cable to connect this jack to the S-Video input jack on your television for higher picture quality.

Notes

- Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- If Component (Progressive Scan) Output is selected in Alt Video Out menu, S-Video will not work.
- See pages 59 ~ 61 to get more information on how to use the Alt Video Out menu.

Tour of the Remote Control

1 **POWER button**
Turns the DVD-VCR's power on and off.

2 **NUMBER buttons**

3 **100+ button**

4 **DVD button**
Use to operate DVD.

5 **VCR button**
Use to operate VCR.

6 **AUDIO/TV MUTE button**
Use this to access various audio functions on a disc.(DVD mode)

This operates as Sound Mute. (TV mode)

7 **VOL (+, -) buttons**

8 **Playback-related buttons**
Seach/Skip/Stop/Play/ Pause

9 **SUBTITLE button**

Use to display the DVD's subtitle language.

10 **MENU button**
Brings up the DVD-VCR player's menu.

11 **ENTER/▲▼◀▶ buttons**
This button functions as a toggle switch.

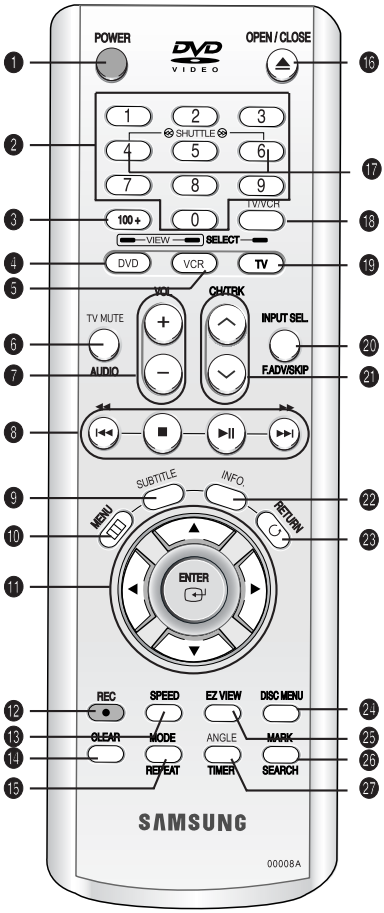
12 **REC button**
Use to begin recording. (VCR)

13 **SPEED button**
Use to select the tape recording speed. (VCR)

14 **CLEAR button**
Use to remove menus or status displays from the screen.

15 **MODE button**
Use to select the program or random play.

REPEAT button
Allows you to repeat play a title, chapter, track, or disc. (DVD)



16 **OPEN/CLOSE button**

17 **SHUTTLE (⊖ / ⊕) buttons**
Use to play a sequence at variable speeds. (VCR)

18 **TV/VCR button**
Use to switch between TV and VCR mode.

19 **TV button**
Use to operate TV.

20 **F.ADV/SKIP/INPUT SEL. button**
Use to advance play one frame at a time. (DVD and VCR)

Use to fast forward a video tape. (VCR)

Use to select a external signal source.

21 **CH/TRK button**
Use to change channels. (TV)

Use to adjust tape tracking. (VCR)

22 **INFO. button**
Displays the current disc mode. (DVD)

23 **RETURN button**
Returns to a previous menu.

24 **DISC MENU button**
Brings up the Disc menu. (DVD)

25 **EZVIEW**
The aspect ratio of a picture can easily be adjusted according to the screen size of your TV (16:9 or 4:3).

26 **MARK/SEARCH button**
Use to memorize scenes for replay. (DVD)

Displays the VCR Function menu. (VCR)

27 **ANGLE/TIMER button**
Use to access various camera angles on a disc. (DVD)

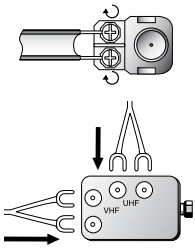
Displays the Manual Clock menu.

Connecting the Antenna Cable

There are several ways to connect your DVD-VCR. Select one of the following antenna connections that best suits you below.

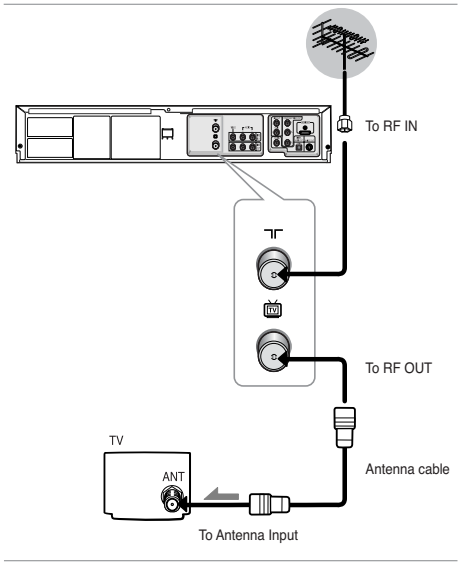
- Method 1: Antenna + DVD-VCR + TV: No Cable box
- Method 2: Antenna + Cable box + DVD-VCR +TV: Cable box with many scrambled channels
- Method 3: Antenna + DVD-VCR + Cable box +TV: Cable box with a few scrambled channels

- If you are using an off-air antenna that has 300-ohm twin flat leads, use an external antenna connector (300-75 ohm adaptor: not supplied) to connect the antenna to the DVD-VCR.
- If you have two separate antennas (one VHF and the other UHF), use a UHF/VHF combiner-adaptor (available at most electronics shops) to connect the antenna to the DVD-VCR.
- The RF OUT(TO TV) jack of this product sends signals received through the antenna and outputs Audio/Video signals.



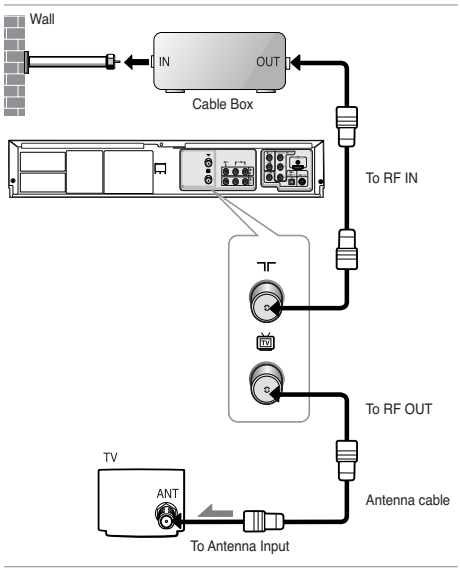
Method1: Antenna + DVD-VCR + TV: No Cable box

You can record non-scrambled channels by selecting the channel on the DVD-VCR.
Also use this Method if you watch channels without cable box.



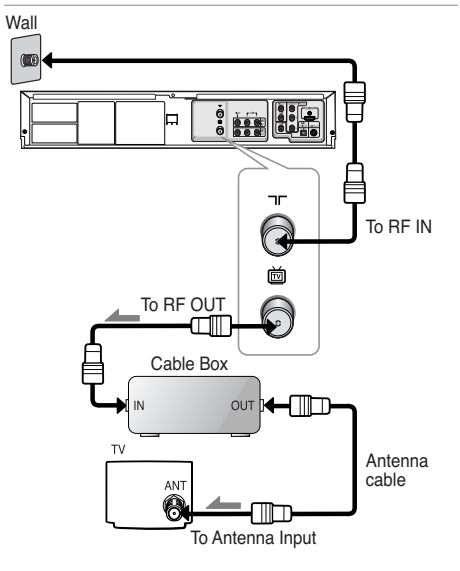
Method2: Antenna + DVD-VCR + TV: Cable box with many scrambled channels

You can record channels by selecting the channel on the cable box. You cannot record one channel while watching another channel. Be sure that the cable box is turned on.



Method3: Antenna + DVD-VCR + TV: Cable box with a few scrambled channels

You can record non-scrambled channels by selecting the channel on the cable box.
You cannot record scrambled channels that require a cable box.



Before Connecting the DVD-VCR

- Always turn off the DVD-VCR, TV, and other components before you connect or disconnect any cables.
- Refer to the user's manual of the additional components (such as a TV) you are connecting for more information on those particular components.

Connection to a TV

The following shows examples of connections commonly used to connect the DVD-VCR with a TV and other components.

Connection to a TV (Video)

1

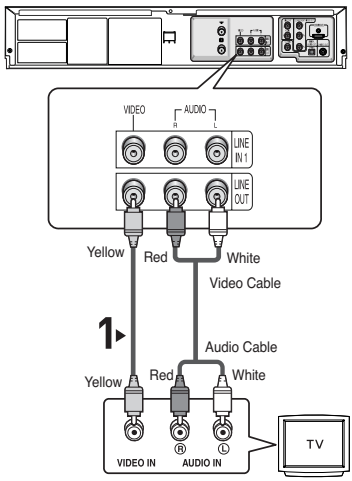
Using video/audio cables, connect the **VIDEO (yellow)/AUDIO (red and white) OUT** terminals on the rear of the DVD-VCR to the **VIDEO (yellow)/AUDIO (red and white)** IN terminals of your TV.

2

Turn on the DVD-VCR and TV.

3

Press the input selector on your TV remote control until the Video signal from the DVD-VCR appears on the TV screen.



Notes

- **Noise may be generated if the audio cable is placed too close to the power cable.**
- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 19 to 20)
- The number and position of terminals may vary depending on your TV set. Please refer to the user's manual of your TV.
- If there is one audio input terminal on the TV, connect it to the AUDIO OUT Left (white) terminal of the DVD-VCR.
- If you press the P.SCAN button when DVD-VCR is in stop mode or no disc is inserted, the Alt Video Out mode changes in the following sequence: (S-Video - Interlace - Progressive)
- When the Alt Video Output in Display Setup menu is set to Progressive, the S-Video Output does not work.

Connection to a TV (S-Video)

- Connecting to your TV using an S-Video cable.
- You will enjoy high quality images. S-Video separates the picture element into black and white(Y) and color(C) signals to present clearer images than regular video input mode. (Audio signals are delivered through the audio output.)

1

Using an S-Video cable (not included), connect the **S-VIDEO OUT** terminal on the rear of the DVD-VCR to the **S-VIDEO IN** terminal of your TV.

2

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD-VCR to the **AUDIO (red and white) IN** terminals of your TV.

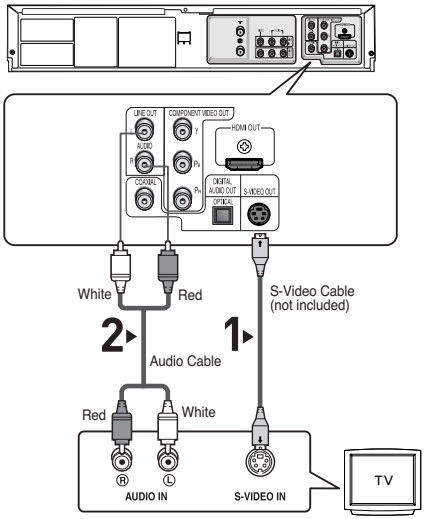
Turn on the DVD-VCR and TV.

3

With the unit in stop mode, set the Alt video output to **COMPOSITE/S-VIDEO** in the Display Setup menu (see pages 59~61) or press the **P.SCAN** button on the front panel until S-Video is output.

4

Press the input selector on your TV remote control until the S-Video signal from the DVD-VCR appears on your TV screen.



Notes

- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 19 to 20)
- The number and position of terminals may vary depending on the TV set. Please refer to the user's manual of your TV.

Connection to a TV (Interlace)

- Connecting to your TV using Component video cables.
- You will enjoy high quality and accurate color reproduction images. Component video separates the picture element into black and white(Y), blue(P_B), red(P_R) signals to present clear and clean images. (Audio signals are delivered through the audio output.)

1

Using component video cables (not included), connect the **COMPONENT VIDEO OUT** terminal on the rear of the DVD-VCR to the **COMPONENT IN** terminal of your TV.

2

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD-VCR to the **AUDIO (red and white) IN** terminals of your TV.

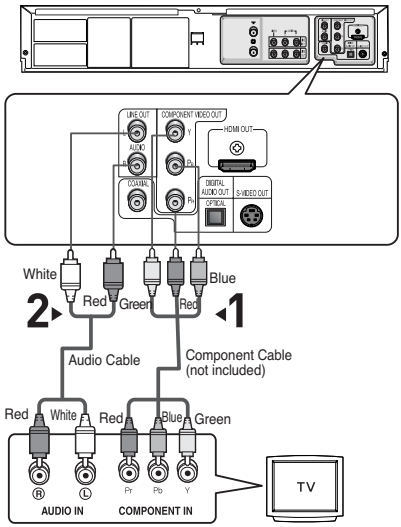
Turn on the DVD-VCR and TV.

3

With the unit in stop mode, set the Alt video output to **COMPONENT(I-SCAN)** in the Display Setup menu (see pages 59~61) or press the **P.SCAN** button on the front panel until Interlace is output.

4

Press the input selector on your TV remote control until the Component signal from the DVD-VCR appears on the TV screen.



Notes

- **If Video output is incorrectly set to S-Video with the Component cables connected, the screen will turn red.**
- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 19 to 20)
- The component terminal of your TV may be marked “R-Y, B-Y, Y” or “Cr, Cb, Y” instead of “P_R, P_B, Y” depending on the manufacturer. The number and position of terminals may vary depending on the TV set. Please refer to the user's manual of your TV.

Connection to a TV (Progressive)

1

Using component video cables (not included), connect the **COMPONENT VIDEO OUT** terminal on the rear of the DVD-VCR to the **COMPONENT IN** terminal of your TV.

2

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD-VCR to the **AUDIO (red and white) IN** terminals of your TV.

Turn on the DVD-VCR and TV.

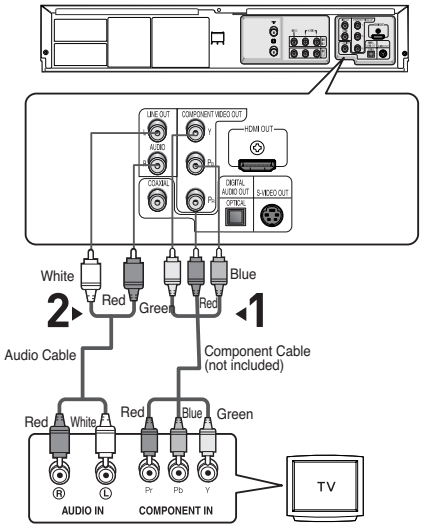
3

With the unit in stop mode, set the Alt video output to **Component: Progressive** in the Display Setup menu (see pages 59~60)or press the **P.SCAN** button on the front panel until the Progressive Scan mode prompt screen appears.

Then press ENTER and progressive will be output.

4

Press the input selector on your TV remote control until the Component signal from the DVD-VCR appears on the TV screen.



To see the progressive video output,

- **Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.**
- **Depending on your TV, the connection method may differ from the illustration above.**

Note

What is "Progressive Scan"?

Progressive scan has twice as many scanning lines as the interlace output method.
Progressive scanning method provides better and clearer picture quality.
Progressive scan only works in DVD mode, not VCR.

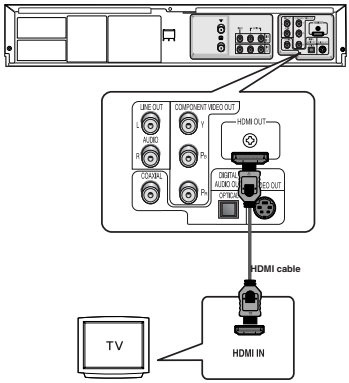
Connecting to a TV with HDMI Jack

1

Using the HDMI-HDMI cable connect the **HDMI OUT** terminal on the rear of the DVD player to the **HDMI IN** terminal of your TV.

2

Press the input selector on your TV remote control until the HDMI signal from the DVD player appears on your TV screen.



HDMI VIDEO Specifications

When you press the **HDMI** button on the front panel, 480p, 720p, 768p, 1080i are selected in order.
The first press of the **HDMI** button on the front panel brings up the current resolution.
The second press allows you to change the HDMI output resolution.

- Depending on your TV, certain HDMI output resolutions may not work.
- Please refer to the user's manual of your TV.
- If HDMI or HDMI cable is plugged into TV, the DVD player's output is set to HDMI within 10 seconds.
- If you set the HDMI output resolution 720p or 1080i, HDMI output provides better picture quality.

- **HDMI (High Definition Multimedia Interface)**

  HDMI is an interface to enable the digital transmission of video and audio data with just a single connector.
  Using HDMI, the DVD player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

- **HDMI connection description**

  HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).

  - Though the player uses a HDMI cable, the player outputs only a pure digital signal to the TV.
  - If TV does not support HDCP (High-bandwidth Digital Content Protection), snow noise appears on the screen.

- **Why does Samsung use HDMI?**

  Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD player) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss.

Connection to an Audio System

Connection to an Audio System (2 Channel Amplifier)

1

Using the audio cables, connect the (LINE) **AUDIO (red and white) OUT** terminals on the rear of the DVD-VCR to the **AUDIO (red and white) IN** terminals of the Amplifier.

2

Using the video signal cable(s), connect the **VIDEO, S-VIDEO** or **COMPONENT OUT** terminals on the rear of the DVD-VCR to the **VIDEO, S-VIDEO or COMPONENT IN** terminal of your TV as described on pages 14 to 16.

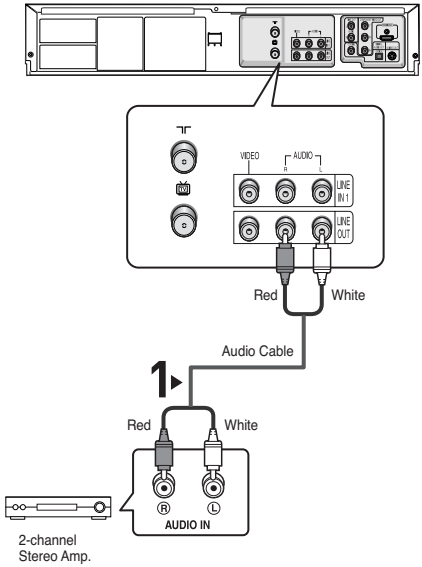
3

Turn on the DVD-VCR, TV, and Amplifier.

4

Press the input select button of the Amplifier to select external input in order to hear sound from the DVD-VCR.

Refer to your Amplifier's user manual to set the Amplifier's audio input.



Notes

- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**
- Please set the audio in the menu screen according to the Amplifier. (See pages 57 to 58)
- The position of terminals may vary depending on the Amplifier.
  Please refer to your Amplifier's user manual .

Connection to an Audio System (Dolby digital, MPEG2 or DTS Amplifier)

1

Using a coaxial cable (not included), connect the **DIGITAL AUDIO OUT (COAXIAL)** or **DIGITAL AUDIO OUT (OPTICAL)** terminal on the rear of the DVD-VCR to the **DIGITAL AUDIO IN (COAXIAL)** or **DIGITAL AUDIO IN (OPTICAL)** terminal of the Amplifier.

2

Using the video signal cable(s), connect the **VIDEO, S-VIDEO** or **COMPONENT OUT** terminals on the rear of the DVD-VCR to the **VIDEO, S-VIDEO** or **COMPONENT IN** terminal of your TV as described on pages 14 to 16.

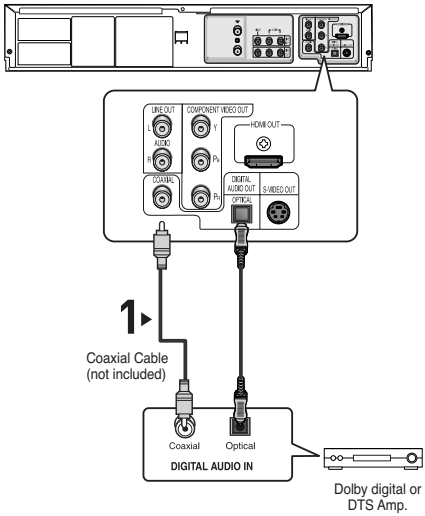
3

Turn on the DVD-VCR, TV, and Amplifier.

4

Press the input select button of the Amplifier to select external input in order to hear sound from the DVD-VCR.

Refer to your Amplifier's user manual to set the Amplifier's audio input.



Notes

- **When you connect the DVD-VCR to DTS Amplifier and play a DTS disc, set the DTS to On in Audio Setup menu. If it is set to Off, sound will not be heard, or there will be a loud sound.**
- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**
- Please set the audio in the menu screen according to the Amplifier. (See pages 57 to 58)
- The position of terminals may vary depending on the Amplifier.
  Please refer to the user's manual of the Amplifier.
- Only audio from the DVD-VCR can be heard when connection is made via the Optical or Coaxial jack. You must have the analog L and R Audio Out connected to hear VCR audio (see page 19).

Connecting a Power Code & Auto Setup

1

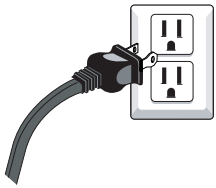
Your DVD-VCR's power code should be plugged into a standard 120V/60Hz wall outlet. Avoid pressing any buttons on the remote control or on the unit during Auto Setup. While your DVD-VCR is running Auto Setup, “Auto” will blink. When Auto Setup is complete, the current time will be displayed on the front panel. If Auto Setup fails to locate a channel to set the clock, you should set the clock manually. (See page 25.)

2

Turn on the power by pressing the **POWER** button on the remote control or on the front panel.

3

Turn on your TV by pressing the **POWER** button on the TV remote control.



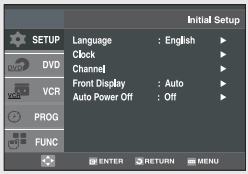
You must have the antenna connected to set the Auto Clock
(See pages 11~12)

Selecting a Menu Language

To change the on-screen MENU language to English, French or Spanish, follow these steps.

1
Press the **MENU** button.

2
Press the ▲/▼ buttons to select **Setup**, then press the ▶ or **ENTER** button.



3
Press the ▲/▼ buttons to select **Language**, then press the ▶ or **ENTER** button.

4
Press the ▲/▼ buttons to select the appropriate language: English, Français or Español.
Press the **ENTER** button.

5
Press the **MENU** button to exit.

Setting the Clock

This menu is used to set the current time. You need to set the time to use timer recording.

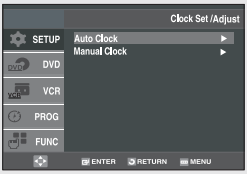
Setting the Clock Automatically

1
Press the **MENU** button.

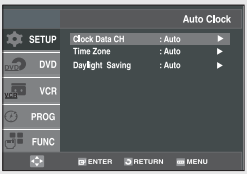
2
Press the ▲/▼ buttons to select **Setup**, then press the ▶ or **ENTER** button.

3
Press the ▲/▼ buttons to select **Clock**, then press the ▶ or **ENTER** button.

4
Press the ▲/▼ buttons to select **Auto Clock**, then press the ▶ or **ENTER** button.



5
Select a channel that carries a time signal by using the ▶ or **ENTER** button.
(Auto, 1, 2, ..., 125)



Notes

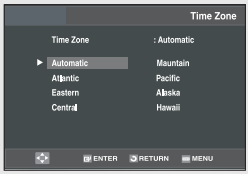
You must have the antenna connected to set the Auto Clock. (See pages 11~12)

The Clock will be automatically set when you turn off the DVD-VCR.

6

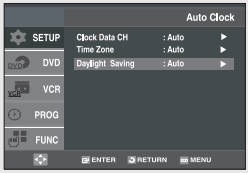
Press the ▲/▼ buttons to select **Time Zone**, then press the ▶ or **ENTER** button.

Select the time zone of your area by using the ▲/▼/◀/▶ buttons, then press the **ENTER** button. Select **Automatic** to set the time zone automatically.



7

Press the ▲/▼ buttons to select **Daylight Saving**, then press the ▶ or **ENTER** button to select **Yes**, **No** or **Auto**.



8

Press the **MENU** button to exit.

Note

If your clock is set to the wrong Time Zone or Daylight Saving, you can adjust these settings without turning off the Auto Clock Set function.

Setting the Clock Manually

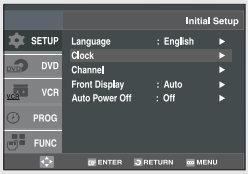
If Auto Setup fails to set the DVD-VCR's internal clock by locating a local TV station, follow these steps to set the date and time manually.

Note: For accurate Timer Recording, your DVD-VCR's internal clock must be set correctly.

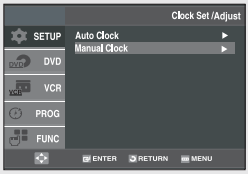
1
Press the **MENU** button.

2
Press the ▲/▼ buttons to select **Setup**, then press the ▶ or **ENTER** button.

3
Press the ▲/▼ buttons to select **Clock**, then press the ▶ or **ENTER** button.

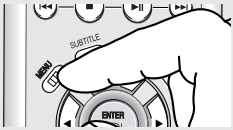


4
Press the ▲/▼ buttons to select **Manual Clock**, then press the ▶ or **ENTER** button.



5
Use the ◀/▶ buttons to select each of the following options, then use the ▲/▼ buttons to set each option.
Press the **ENTER** button to set the clock.

6
Press the **MENU** button to exit.



Memorizing the Channels

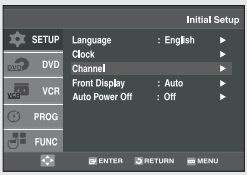
Selecting the Video Signal-source

This feature allows you to manually set the DVD-VCR's tuner band to Antenna or Cable, whichever you connected to the Antenna In jack during initial setup.

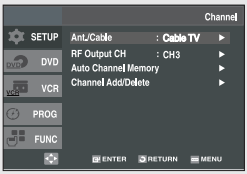
1
Press the **MENU** button.

2
Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

3
Press the ▲/▼ buttons to select **Channel**, then press the ► or **ENTER** button.



4
Press the ► or **ENTER** button to select **Antenna** or **Cable TV**.



◄ - Antenna: Select this if the DVD-VCR is connected to an indoor or outdoor VHF/UHF antenna.

- Cable TV: Select this if the DVD-VCR is connected to Cable TV.

Storing Channels in Memory (Automatic Method)

Auto Channel Memory will automatically seek and store all active channels in your area.

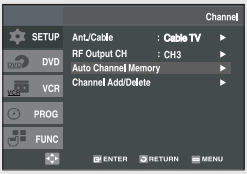
5

Press the ▲/▼ buttons to select **Auto Channel Memory**, then press the ▶ or **ENTER** button.

The DVD-VCR will automatically search for all available channels.

This procedure may take a few minutes to complete.

When finished, the lowest channel found will be displayed.



Note

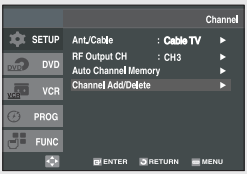
Do not turn the power off when Auto Channel Memory function is proceeding as not all channels will be memorized.

Adding and Erasing Channels (Manual Method)

Use this feature if Auto Channel Search missed a channel that you would like to add, delete a channel you wish to remove.

6

Press the ▲/▼ buttons to select **Channel Add/Delete**, then press the ▶ or **ENTER** button.



7

Press the **CH** ∧/∨ buttons to tune in the channel number you wish to add or delete. Use the number button to select the channel directly.

8

Press the ◀ or ▶ button to delete the channel from your channel list or to add.

Repeat steps 7 to add or to delete additional channels.

Press the **MENU** button to exit.

Note

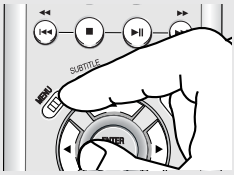
Use the number button to move the channel directly.

Selecting the RF Output Channel

Use this feature if DVD-VCR is connected to TV using RF antenna cable.

1

Press the **MENU** button.

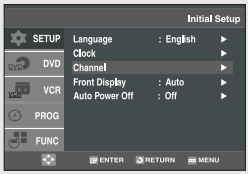


2

Press the ▲/▼ buttons to select **Setup**, then press the ▶ or **ENTER** button.

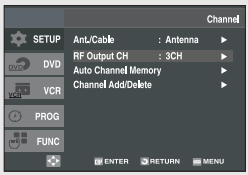
3

Press the ▲/▼ buttons to select **Channel**, then press the ▶ or **ENTER** button.



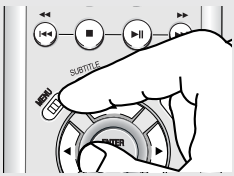
4

Press the ▲/▼ buttons to select **RF Output CH**, then press the ▶ or **ENTER** button to select **CH3** or **CH4**.



5

Press the **MENU** button to exit.

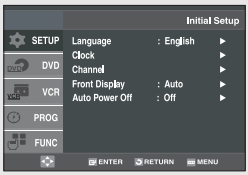


Setting the Front Panel Display

You can set the Front Panel Display to be bright all the time, dim all the time, or to automatically dim during power off.

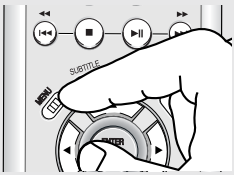
1
Press the **MENU** button.

2
Press the ▲/▼ buttons to select **Setup**, then press the ▶ or **ENTER** button.



3
Press the ▲/▼ buttons to select **Front Display**, then press the ▶ or **ENTER** button to select **Auto**, **Bright** or **Dim**.

4
Press the **MENU** button to exit.



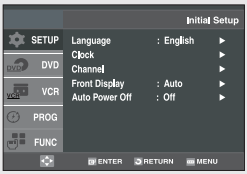
- Auto: Front Panel Display will dim automatically during power off.
- Bright: Front Panel Display will be bright all the time.
- Dim: Front Panel Display will be dim all the time.

Setting the Power Off Automatically

This feature automatically turns off your DVD-VCR if no signal is received and you do not press any buttons for the selected time.

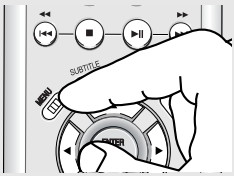
1
Press the **MENU** button.

2
Press the ▲/▼ buttons to select **Setup**, then press the ▶ or **ENTER** button.



3
Press the ▲/▼ buttons to select **Auto Power Off**, then press the ▶ or **ENTER** button to select **Off**, **1Hr** or **2Hr**.

4
Press the **MENU** button to exit.



- Off: Auto power off is disabled.
- 1Hr: DVD-VCR will auto shut off 1 hour after the last button is pressed or no signal is received.
- 2Hr: DVD-VCR will auto shut off 2 hours after the last button is pressed or no signal is received.

Playing a Disc

Before Play

- Turn on your TV and set it to the correct Video Input on your TV's remote control.
- If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input.

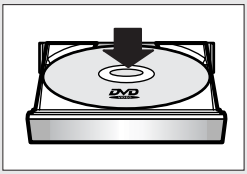
Playback

1

Press the **OPEN/CLOSE** (⏏) button.

2

Place a disc gently into the tray with the disc's label facing up.



3

Press the ►II (Play/Pause) button on your remote control or on the front panel.

Most discs will start to play back as soon as the tray closes.

4

Stopping Play

Press the ■ (Stop) button during play.

◄ **Stop/Resume**

- Press the ■ (Stop) button once to stop playback. To resume the DVD/CD from the point where the disc stopped, press the ►II (Play/Pause) button.
- Press the ■ (Stop) button twice to completely stop playback. The next time you press the ►II (Play/Pause), the disc will start over from the beginning.

5
Pausing Play

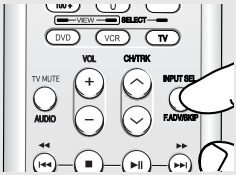
Press the ►II (Play/Pause) button on your remote control or on the front panel during play.

◄ - Screen stops, no sound.
- To resume, press the ►II (Play/Pause) button once again.

Note
If the player is left for about 5 minutes in pause mode, it will stop.

6
Step Motion Play (Except CD)

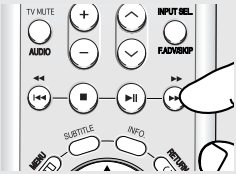
Press the **F.ADV** button on the remote control during play.



◄ - Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press the ►II (Play/Pause) button to resume normal play.
- You can only perform step motion play in the forward direction.

7
Slow Motion Play (Except CD)

Press and hold the ►► (Forward) button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.

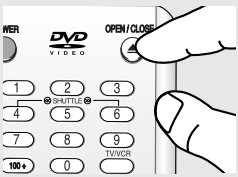


◄ - No sound is heard during slow mode.
- Press the ►II (Play/Pause) button to resume normal play.
- Reverse slow motion play will not work.

Note
This (⊘) icon indicates an invalid button press.

8
To remove the Disc

Press the **OPEN/CLOSE** (⏏) button.

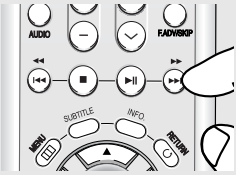


Using the Search and Skip Functions

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching through a Chapter or Track

During play, press and hold the ◀◀ / ▶▶ (Search) buttons on the remote control for more than 1 second.



◀ If you want to search at a faster speed on the DVD or CD, press and hold the button.

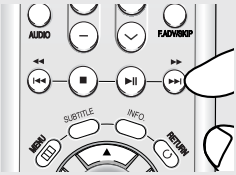
DVD	2X, 4X, 8X, 16X, 32X, 128X
CD	2X, 4X, 8X

Notes

- The speed marked in this function may be different from the actual playback speed.
- No sound is hearing during search mode (Except CD).

Skipping Tracks

During play, press the ⏮/⏭ (Skip) buttons.

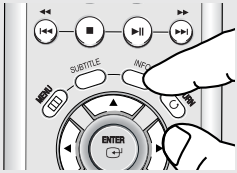


- When playing a DVD, if you press the ⏭ (Skip) button, it moves to the next chapter. If you press the ⏮ (Skip) button, it moves to the beginning of the current chapter. One more press makes it move to the beginning of the previous chapter.

Using the Display Function

When Playing a DVD/CD

1
During play, press the **INFO.** button on the remote control.



◄ You can select Information in the DVD Function menu by pressing the **INFO.** button.

2
Press the ▲/▼ buttons to select the desired item.

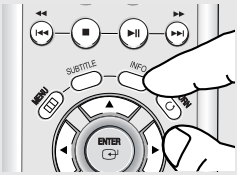
DVD

CD

3
Press the ◄/► buttons to make the desired setup and then press the **ENTER** button.

◄ You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from a desired time.

4
To exit the menu, press the **INFO.** button again.



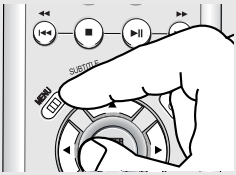
Note

TITLE	To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.
CHAPTER TRACK	Most DVD discs are recorded in chapters so that you can quickly find a specific passage (similar to tracks on an audio CD).
TIME	Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
AUDIO	Refers to the film's soundtrack language. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.
SUBTITLE	Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.

Using the Disc and Title Menu (DVD)

1

During playback of a DVD disc, press the **MENU** button on the remote control.



◄ **MENU** button can be used to access Disc and title menus on a DVD during playback.

2

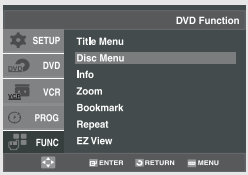
Press the ▲/▼ buttons to select **Function**, then press the ► or **ENTER** button.

3

Press the ▲/▼ buttons to select **DVD Function**, then press the ► or **ENTER** button.

4

Press the ▲/▼ buttons to select **Title Menu** or **Disc Menu** then press the ► or **ENTER** button.



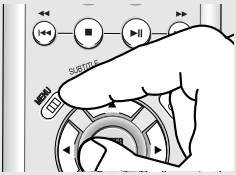
Notes

- Depending on the disc, the Disc Menu or Title Menu may not be available.
- You can also use the Disc Menu by using the **DISC MENU** button on the remote control.
- Title Menu will only be displayed if there are at least two titles in the disc.

Using the Function Menu (DVD)

1

During the playback of a DVD disc, press the **MENU** button on the remote control.



◄ **MENU** button can be used to access DVD functions such as Information, Zoom, Bookmark, Repeat and EZ view menu during DVD playback.

2

Press the ▲/▼ buttons to select **Function**, then press the ► or **ENTER** button.

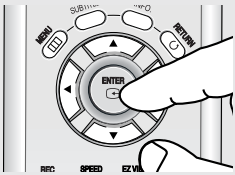
3

Press the ▲/▼ buttons to select **DVD Function**, then press the ► or **ENTER** button.

- Info (See pages 34 to 35)
- Zoom (See page 47)
- Bookmark (See pages 45 to 46)
- Repeat (See pages 38 to 39)
- EZ View (See pages 41 to 42)

4

Press the ▲/▼ buttons to select one of the five functions. Then press the ► or **ENTER** button to access the function.



◄ You can also directly select these functions using their respective buttons on the remote control.
- Info
- MARK
- REPEAT

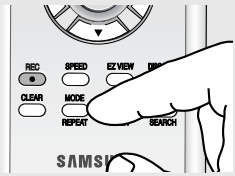
Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

When playing a DVD/CD

1

During play, press the **REPEAT** button on the remote control. Repeat screen appears.

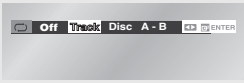


2

Press the ◀/▶ buttons to select **Chapter**, **Title** or **A-B**, then press the **ENTER** button.

DVD

CD



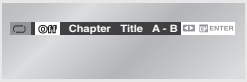
◀ DVD repeats play by chapter or title, and CD repeats play by track or disc.
- Chapter: repeats the chapter that is playing.
- Title: repeats the title that is playing.
- Track: repeats the track that is playing.
- Disc: repeats the disc that is playing.
- A-B: repeats a segment of the disc that you select.

3

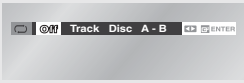
To return to normal play, press the **REPEAT** button again, then press the ◀/▶ buttons to select **Off** and press **ENTER** button.

It's available to press the **CLEAR** button in order to stop repeat play.

DVD



CD



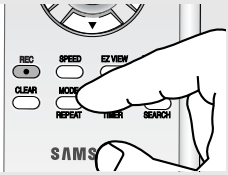
Note

Depending on a disc, the Repeat function may not work.

Using the A-B Repeat function

1

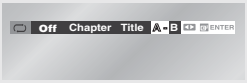
During play, press the **REPEAT** button on the remote control. Repeat screen appears.



2

Press the ◀/▶ buttons to select **A-**.

DVD



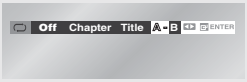
CD

3

Mark the Starting Point

Press the **ENTER** button at the beginning of the segment you want to repeat (Point A). Once you select point **A**, **B** will be selected.

DVD



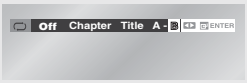
CD

4

Mark the Ending Point

Press the **ENTER** button again at the end of the segment you want to repeat (Point B).
The segment will begin repeating in a continuous loop.

DVD



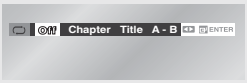
CD

5

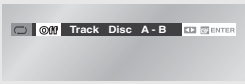
Cancel A-B Repeat

Press the **REPEAT** button, then press the ◀/▶ buttons to select **Off** and press **ENTER** button.

DVD



CD



Note

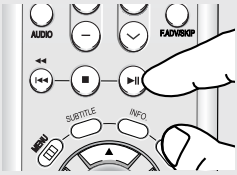
The minimum A -B Repeat time is 5 seconds.

Slow Repeat Play

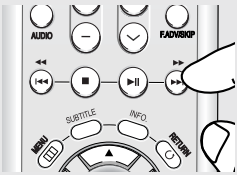
This feature allows you to slowly to repeat scenes containing sports, dancing, musical instruments being played etc., so you can study them more closely.

When playing a DVD

1
During play, press the ►II (Play/Pause) button.



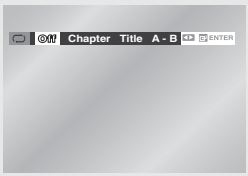
2
Press and hold the ►► (Forward) button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.



3
Press the **REPEAT** button on the remote control.
Press the ◄/► buttons to select **A-**.

4
Press the **ENTER** button at the point where you want repeat play to start (A).
B is automatically selected.
Press the **ENTER** button at the point where you want the repeat play to stop (B).

5
To return to normal play, press the **REPEAT** button, then press the ◄/► buttons to select **Off** and press **ENTER** button.



◄ To set A-B repeat, set (A) first, then set (B) after the following slow play time has elapsed:
1/8x: wait 40 seconds, then press B
1/4x: wait 20 seconds, then press B
1/2x: wait 10 seconds, then press B

◄ The disc will play from A to B repeatedly at the speed you chose.

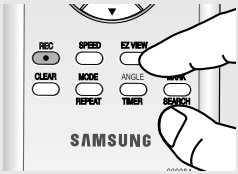
Adjusting the Aspect Ratio (EZ View)

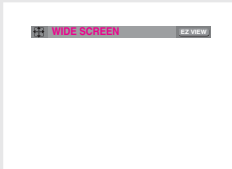
Set the aspect ratio (length x width) of your TV screen so the DVD-VCR will display movies at the appropriate size for your television.

To Playback using Aspect Ratio (DVD)

Press the **EZ VIEW** button.

- The screen size changes when the button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the Display Setup menu.
- To ensure correct operation of the **EZ VIEW** button, you should set the correct aspect ratio in the Display Setup menu.
  (See pages 59 to 60).





◄ The EZ View feature is not available when the A-B Repeat function is activated.

If you are using a 16:9 TV

For 16:9 aspect ratio discs

- **WIDE SCREEN**
  Displays the content of the DVD title in 16:9 aspect ratio.
- **SCREEN FIT**
  The top and bottom portions of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on a type of disc, the black bars may not disappear completely.)
- **ZOOM FIT**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- **NORMAL WIDE**
  Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched.
- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and the full screen appears. The picture will look vertically stretched.

- **ZOOM FIT**
  The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.
- **VERTICAL FIT**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

If you are using a 4:3 TV

For 16:9 aspect ratio discs

- **4:3 Letter Box**
  Displays the content of the DVD title in 16:9 aspect ratio. The black bars will appear at the top and bottom of the screen.
- **4:3 Pan Scan**
  The left and right portions of the screen are cut off and the central portion of the 16:9 screen is displayed.
- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and a full screen appears. The picture will look vertically stretched.
- **ZOOM FIT**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- **NORMAL SCREEN**
  Displays the content of the DVD title in 4:3 aspect ratio.
- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- **ZOOM FIT**
  The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.

Note
This function may behave differently depending on the type of disc.

Selecting the Audio Language

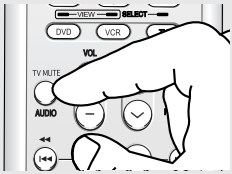
You can select a desired audio language quickly and easily with the AUDIO button.

Using the AUDIO button (DVD/CD)

1

During play, press the **AUDIO** button.
Audio languages changes when the ◀/▶ button is pressed repeatedly.

The audio languages are represented by abbreviations.



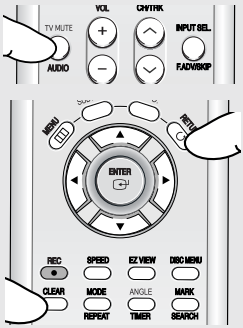
DVD

CD

When playing a CD, you can select among **Stereo**, **Right** or **Left**.

2

To remove the AUDIO icon, press the **AUDIO**, **CLEAR** or **RETURN** button.



Notes

- To change the desired audio in the Disc Menu, press the **DISC MENU** button.
- This function depends on what audio languages are encoded on the disc and may not work on all DVDs.
- A DVD disc can contain up to 8 audio languages.
- To have the same audio language come up whenever you play a DVD, see pages 55 to 56.

Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBTITLE button.

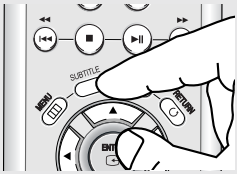
Using the SUBTITLE button (DVD)

1

During play, press the **SUBTITLE** button.

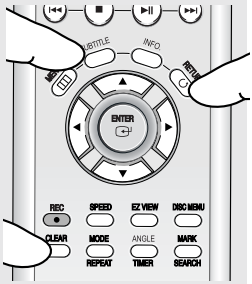
The subtitle changes when the ◀/▶ button is pressed repeatedly.

The subtitle languages are represented by abbreviations.



Notes

- To change the desired subtitle in the Disc Menu, press the **DISC MENU** button.
- This function depends on what subtitles are encoded on the disc and may not be available on all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- To have the same subtitle language come up whenever you play a DVD, see pages 55 to 56.

2

To remove the **SUBTITLE** icon, press the **SUBTITLE**, **CLEAR** or **RETURN** button.