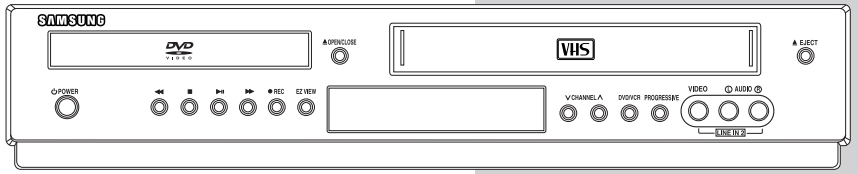
SAMSUNG

Instruction Manual

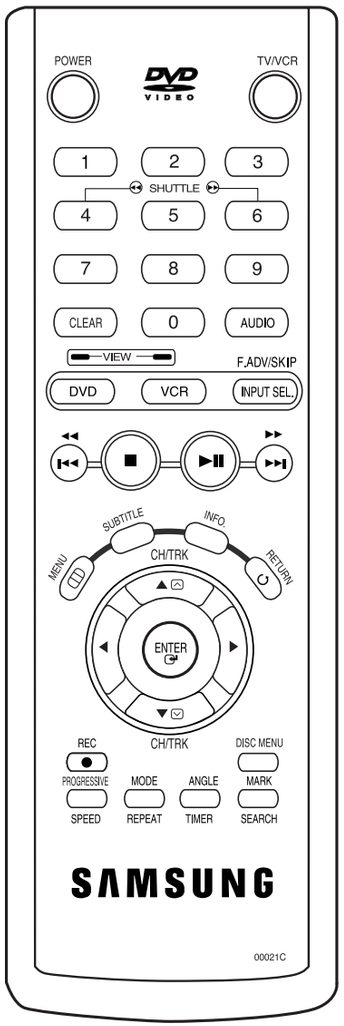
DVD-V5500



DVD VIDEO VHS Hi-Fi

www.samsungusa.com

Remote Control Overview



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 are 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.

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Feature Summary

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, and Component Video outputs.
- Universal remote provides the 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.

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.
- MP3 • WMA
- DVD-R (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.

Disc Type and Characteristics

Disc Types (Logos)	DVD VIDEO		AUDIO-CD COMPACT disc DIGITAL AUDIO	
Recording Types	Audio + Video		Audio	
Disc Size	5"	3 1/2"	5"	3 1/2"
Max. Playing Time	Single-sided 240 min. Double-sided 480 min.	Single-sided 80 min. Double-sided 160 min.	74 min.	20 min.
Characteristics	• 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.		• CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.	

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

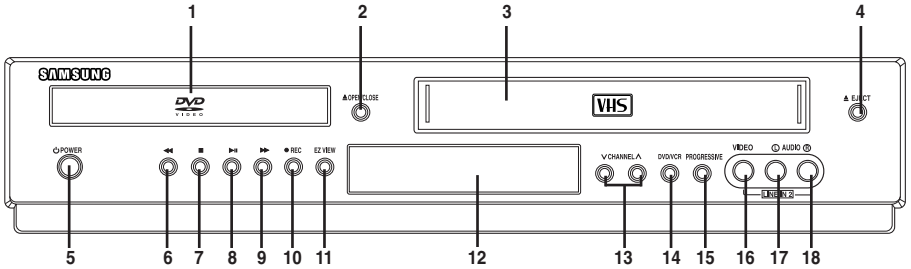
Disc Markings

	• 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

Play Region Number

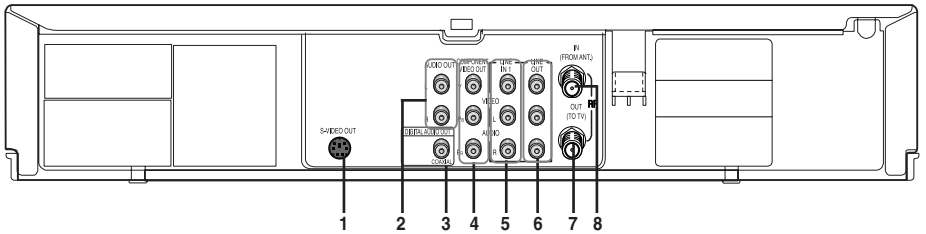
Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is described on the rear panel of the player.

Front Panel Overview



1	DVD DECK	8	PLAY/PAUSE	14	DVD-VCR SELECT
2	DVD OPEN/CLOSE	9	FAST-FORWARD/FWD	15	PROGRESSIVE
3	VCR DECK	10	RECORD	16	LINE IN 2 (VIDEO JACK)
4	VCR EJECT	11	EZ VIEW	17	LINE IN 2 (LEFT AUDIO JACK)
5	POWER	12	FRONT PANEL DISPLAY	18	LINE IN 2 (RIGHT AUDIO JACK)
6	REWIND/REV	13	CHANNEL(∨ / ∧)		
7	STOP				

Rear Panel



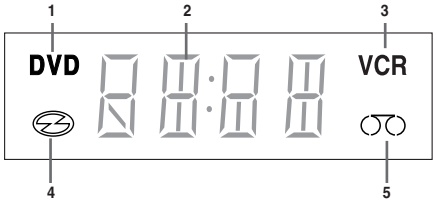
1	S-VIDEO OUT	4	COMPONENT VIDEO OUT	7	RF OUT (TO TV)
2	AUDIO LINE OUT TO TV (S-VIDEO OR COMPONENT)	5	LINE IN 1	8	RF IN (ANTENNA INPUT)
3	DIGITAL AUDIO OUT (COAXIAL)	6	LINE OUT TO TV (COMPOSITE)		

Unpack

When you unpack the DVD-VCR, please check the following list of items is included in the packing case.

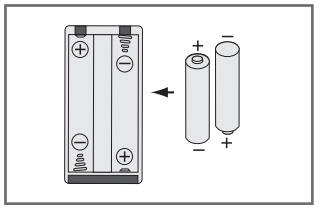
DVD-VCR	Registration Card (AD68-00078A)	User's Guide (AK68-00593A)
RCA cable for Audio/Video connection (AC97-01746A)	Remote Control (AK59-00021C) & 1.5V "AAA" Batteries- 2EA (AC43-12002H)	RF (Radio Frequency) Antenna Cable (AC39-42001J)

Front Panel Display



1 When the light is on, DVD is operating.
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.

Insert Batteries into Remote



- Remove the battery cover on the remote
- Insert two 1.5V "AAA" batteries as shown, making sure of the correct polarities(+/-)
- Slide the cover back onto remote.

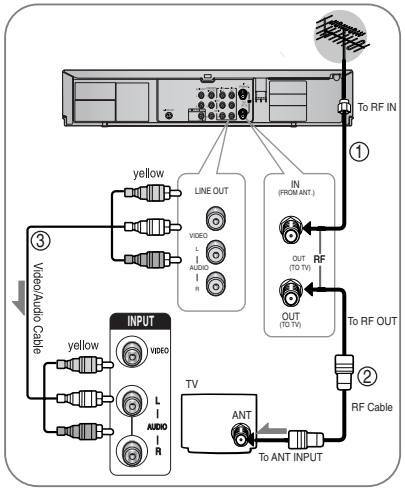
Basic Connections/Auto Setup

You will need to connect the DVD-VCR to a TV and run Auto Setup. The Auto Setup will automatically search for channels and then set your DVD-VCR's internal clock.

NOTES:

- ***See page 7 for Advanced Connections.***
- ***Standard RF or Line connection between your TV and DVD-VCR are required to run DVD-VCR setup menu, even if you connect S-Video or Component Video Output for a better picture quality.***

1 Connect the RF Antenna Cable ① to your DVD-VCR
Connect an external indoor/outdoor antenna or wall outlet antenna cable to the Ant-In jack on the rear panel.



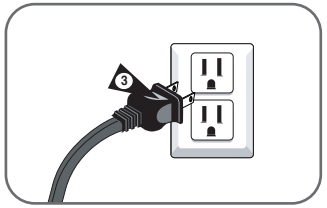
2 Connect your DVD-VCR to a TV

RF Connection
Using the RF antenna cable②, connect the OUT jack (TO TV) on the rear panel of your DVD-VCR to your TV's Antenna Input.

Line Connection
Using an RCA-type audio/video cable③ (red, white, yellow), connect the LINE OUT jacks on the rear panel of your DVD-VCR to your TV's Line In jacks. Use the three cables as follows: red for right audio, white for left audio, and yellow for video.

Note: If your TV is equipped with RCA jacks, it is better to use the Line Connection method.

3 Plug In
Your DVD-VCR's power should be plugged into a standard 120V/60Hz wall outlet. Avoid pressing any buttons on the remote control or on the unit during an Auto Setup. While your DVD-VCR is running an Auto Setup, "AUTO" will blink. When Auto Setup is complete, the current time will be displayed on the front panel displayed. In case Auto Clock set fails to locate a channel to set the clock, you should set the clock manually. See page 13.



4 Turn On your DVD-VCR
Turn on the power by pressing the POWER button on the remote control or on the front panel of the unit.

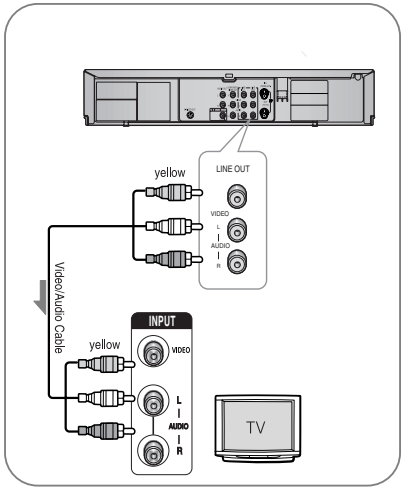
5 Turn On your TV
Turn on the TV by pressing the POWER button on the TV remote control.

6 Set the TV to Line (Only for line connection)
Set your TV to its Line Input.

Stereo Connections

You can connect your DVD-VCR to your home stereo system or stereo TV and enjoy stereo sound when watching a movie or TV.

1 Connect DVD-VCR to Stereo
Using RCA cables, connect the Line Out Left and Right Audio jacks on the rear panel of the DVD-VCR to the Auxiliary Inputs on your stereo receiver. Connect the Video Output also in case you are using a stereo TV.



2 Set Stereo to Auxiliary Mode
Set your stereo receiver or TV to either "Aux" or "Tape" regardless of which line input you are using for your particular device.

3 Play a Tape
Insert a DVD or Hi-Fi stereo videotape into your system. Be sure to adjust the volume on your stereo receiver or TV. Audio will be heard through your stereo speakers
- If there is no stereo sound even after you have inserted a Hi-Fi stereo videotape, press the AUDIO button until "Hi-Fi" appears on the on-screen display.

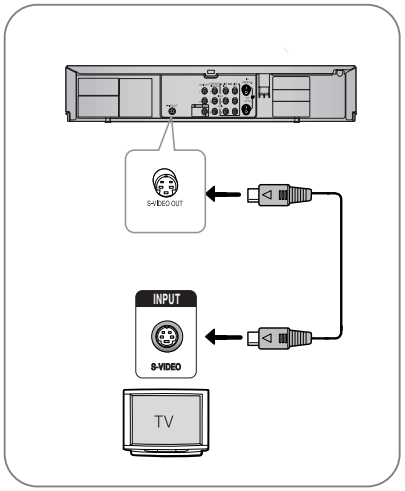
PROGRESSIVE SCAN NOTICE

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be desplayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the "standard definition"output. If there are questions regarding our TV set compatibility with this model 525p DVD player. please contact our customer center.

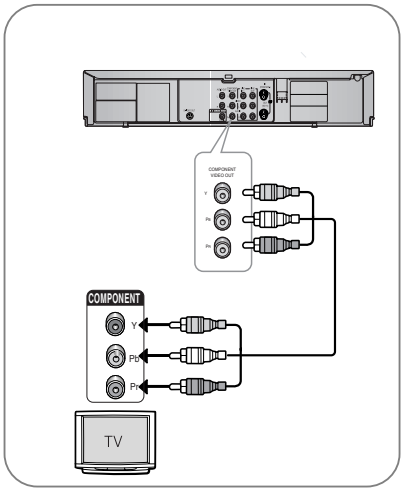
S-Video/Component Video Connections (for DVD)

Use the S-Video or Component Video connection method only for the DVD player. The VCR can still be viewed through RF or line input mode on your TV. To activate your alternative (S-Video or Component) video selection, follow the "Alt Video Out" instructions on page 21. Keep in mind that you can choose either S-Video or Component only, but not both. A superior video quality can be obtained when watching a DVD on your DVD-VCR if your TV is equipped with S-Video or Component Video inputs.

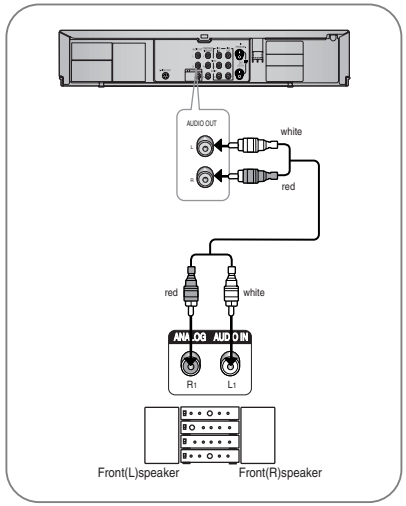
1 **When using a S-Video cable**
Connect the S-VIDEO OUT on the rear panel of your DVD-VCR to the S-Video input on your TV.



2 **When using a Component video cable**
Connect the COMPONENT VIDEO OUT (Y,Pb,Pr) on the rear panel of your DVD-VCR to the Component Video input on your TV.



3 **Connect Audio Out (DVD only)**
Using RCA audio cables, connect the LEFT/RIGHT Line Out jacks on the rear panel of your DVD-VCR to the LEFT/RIGHT Audio Line In jacks on your TV.
- When connecting your DVD-VCR to a TV with the S-Video or Component Video Output, make sure that you use these Line Out jacks.
- To activate your connection, see "Alt Video Out" on page 21.

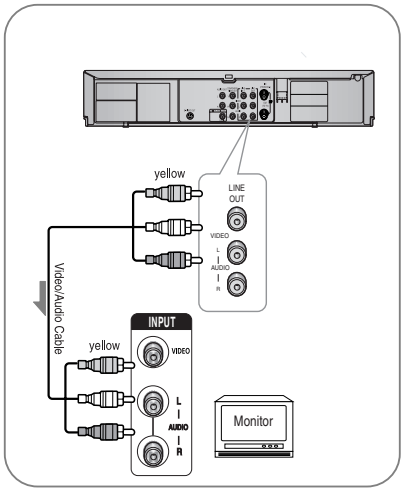


Monitor TV Connections

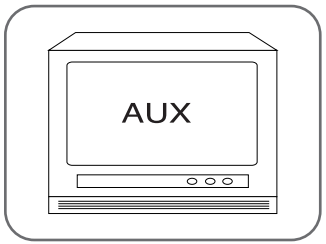
Monitor-style televisions offer improved sound and picture over regular televisions because they receive the audio and video signals directly from the DVD-VCR through the line inputs.

NOTE: A monitor television is not the same as a computer monitor.

1 **Connect VCR to Monitor TV**
Connect RCA cables from the Audio/Video Line Out jacks on the rear panel of the DVD-VCR to the Audio/Video Line Inputs of your monitor TV.



2 **Set TV to Auxiliary Mode**
Set your monitor TV to "Aux," "Video," or "Line." Refer to your monitor television owner's manual for the correct setting.



3 **Connection is Complete**

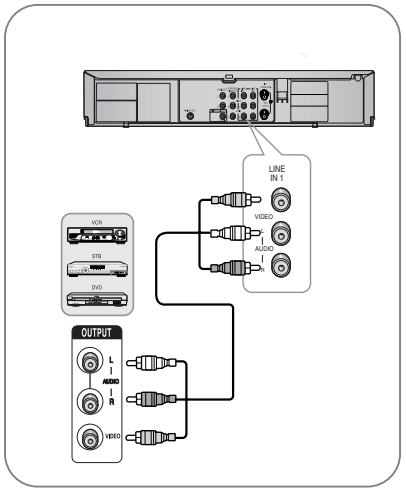
Connecting Other Video Equipment

You can connect a wide variety of audio/video equipment to your DVD-VCR, including:

- *An additional VCR*
- *Laser Disc Player*
- *DVD Player*
- *Camcorder*
- *Satellite Receiver*
- *Video Game*

Since all of these devices use essentially the same connections, they will be described together.

1 **Connect Device to DVD-VCR**
Connect RCA cables from the Audio and Video Line Outputs of your external device to the Audio and Video Line Inputs on the front or rear panel of the DVD-VCR.



2 **Watch Device**
Play your external device, then press the INPUT SEL. button until the playback from Line1 (rear panel inputs) or Line2 (front panel inputs) appears on your TV screen.

3 **Record Device**
First, play your external device. Next, press the INPUT SEL. button until the playback from Line1 (rear panel inputs) or Line2 (front panel inputs) appears on your TV screen. Then press Record on the Front panel and Remote Control.

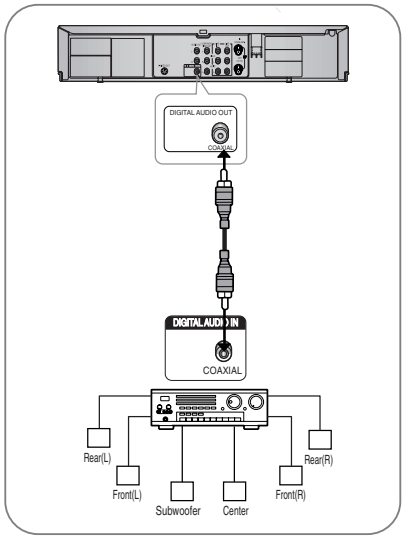
4 **Timer Record From Device**
Select Line1 (L1) or Line2 (L2) as your record source in the Timer Record menu. All other Timer Record settings should be set in the usual manner.

A/V Receiver Connections

To take full advantage of the movie theater experience that DVD offers, you may want to connect your DVD-VCR to a complete Surround Sound system, including an A/V Receiver and six Surround Sound speakers.

Before You Begin...

- *If your A/V receiver is equipped with a Dolby Digital Decoder, you have the option to bypass the DVD-VCR's built-in Dolby Digital Decoder. Use the Digital Audio Out connection below.*



1 **Digital Audio Out**
Connect a digital coaxial cable from the Digital Audio Out jack on the rear panel of the DVD-VCR to the corresponding Digital Audio Input jack on your A/V Receiver:
- Coaxial
- Use whichever connection is available on your A/V Receiver.

Deck Control Buttons

The DVD-VCR uses one set of controls to operate both decks. The following buttons are helpful in successfully controlling each deck.

1 **POWER Button**
Press the POWER button on the remote control or front panel to turn on the DVD-VCR.

2 **DVD Button**
Press the DVD button on the remote control or front panel when you want to control the DVD deck.
- The DVD indicator will light on the Front Panel Display to show that the DVD deck is selected.

3 **VCR Button**
Press the VCR button on the remote control or front panel when you want to control the VCR deck.
- The VCR indicator will light on the Front Panel Display to show that the VHS deck is selected.

4 **INPUT SEL. Button**
Press the INPUT SEL. button repeatedly to cycle through all of your input sources, including the Tuner(Ch##), Line 1 (rear AV input), and Line 2 (front AV input).
- Input selection is only available when the VCR deck is selected.

Basic DVD Operation

Follow the instructions below to playback a DVD.

1 **Open the Disc Tray**
Press the OPEN/CLOSE button on the front panel of the unit to turn on the power and open the disc tray.

2 **Insert a Disc**
Put a disc in the center of the tray, with the label-printed side facing up.

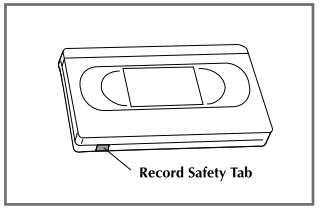
3 **Close the Disc Tray**
Press the OPEN/CLOSE button on the front panel of the unit to close the disc tray.

4 **Play a DVD**
Press the ►II(PLAY/PAUSE) button on your remote control or on the front panel of the unit.
- Most discs will start to playback as soon as the tray closes.
- If a DVD has a MENU, the menu may pop up on TV screen.

5 **Additional DVD Options**
- See pages 17 ~ 23 for advanced DVD Setup options.
- See pages 23 ~ 29 for special DVD Playback features.

Basic VCR Operation

To play a standard VHS videotape, just insert it into the VCR deck and press the PLAY button. You can turn on the Auto Play to enable the VCR deck to play automatically when you insert a videotape that is missing the Record Safety Tab. See page 30.



1 **Insert VHS Tape**
Insert a standard VHS videotape into the VCR deck.
- When a videotape is inserted, power will turn on automatically.

2 **Play Tape**
Press the ►II(PLAY/PAUSE) button on the remote control or on the front panel of the unit. The videotape will begin to play automatically if it is missing the Record Safety Tab and Auto Play is turned on. See page 30.

3 **Stop Playback**
Press the ■ (STOP) button on the remote control or on the front panel of the unit.

4 **Additional VCR Options**
- See pages 29 for special VCR Playback features.
- See pages 32~33 for VCR Recording features.
- See page 33 for Timer Recording features.

Basic TV Tuner Operations

When watching TV using the DVD-VCR's built-in TV tuner, use the buttons below.

1 **TV/VCR**
Press this button to switch between your TV's tuner and the VCR's internal tuner.
- Use this button when you want to watch TV while in recording mode.

2 **Channel UP/DOWN**
Use this button when you want to watch TV while in recording mode.

3 **0-9 Buttons**
Use these buttons to select the desired channel directly.

4 **INFO. Button**
Press this button to display the current channel.
- This also works in DVD and VCR mode.

On-Screen Menu Navigation

The on-screen menus allow you to enable or disable various functions on your DVD-VCR. Use the following buttons to open and navigate through the on-screen menus.

1 **MENU Button**
Press this button while the DVD is in Stop or Play mode to open the on-screen MAIN MENU.

2 **UP/DOWN and LEFT/RIGHT**
Use these buttons to move the selection bar UP/DOWN and LEFT/RIGHT to cycle through the menu options.

3 **ENTER Button**
Press this button to confirm any new settings.

4 **RETURN Button**
Press this button to return to the last MENU screen displayed or to exit the on-screen MENU all together.

Menu Language

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

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop or Play mode.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "SETUP" then press ENTER to select.

3 **Select "Language"**
Use the UP/DOWN buttons to highlight "Language" then press the ENTER button.

4 **Set menu Language**
Place the selection bar next to your desired Language, then press the ENTER button.

Auto Clock Set

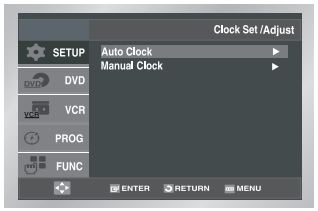
This menu is used to set the current time. You need to set the time to use timer recording.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "SETUP"**
Move the highlight to "SETUP" by using the UP/DOWN buttons, and then press ENTER button.

3 **Select "Clock"**
Move the highlight to "Clock" by using the UP/DOWN buttons, and then press ► or ENTER button.

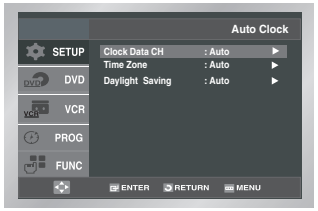
4 **Select "Auto Clock"**
Move the highlight to "Auto Clock" by using the UP/DOWN buttons, and then press ► or ENTER button.



Note

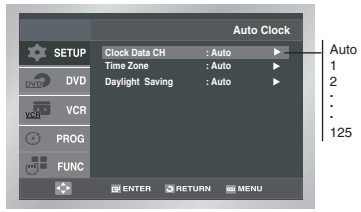
You must have the antenna connected to set the Auto Clock. See page 6.
The Clock will be automatically set when you turn off the DVD-VCR.

5 **Select Sub Menu**
Select the sub menu (Clock Data CH, Time Zone or Daylight Saving) by using the UP/DOWN buttons, and then press ► or ENTER button.

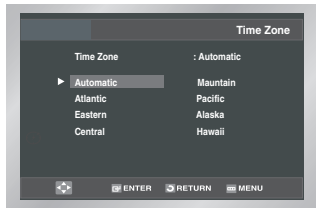


Auto Clock Set

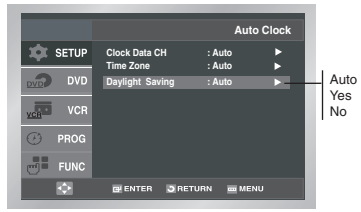
- **Clock Data CH**
  Select a channel that carries a time signal by using the UP/DOWN buttons, and then press ► or ENTER button.



- **Time Zone**
  Select the time zone of your area by using the UP/DOWN buttons, and then press ► or ENTER button. Select "Automatic" to set the time zone automatically.



- **Daylight Saving**
  Select the Yes, No or Auto by using the UP/DOWN buttons, and then press ► or ENTER button. Select "Automatic" to set the daylight saving automatically.



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.

Manual Clock Set

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.

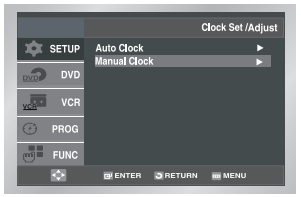
NOTE: For accurate Timer Recording, your DVD-VCR's internal clock must be set correctly.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop or Play mode.

2 **Select "SETUP"**
Move the highlight to "SETUP" by using the UP/DOWN buttons, and then press ENTER to select.

3 **Select "Clock"**
Move the highlight to "Clock" by using the UP/DOWN buttons, and then press the ENTER button.

4 **Select "Manual Clock"**
Move the highlight to "Manual Clock" by using the UP/DOWN buttons, and then press the ENTER button.
• The Clock Set/Adjust menu will change as shown.



5 **Set the Clock**
Use the LEFT/RIGHT buttons to select each of the following options, and then use the UP/DOWN buttons to set each option:
• **Hour** – Set the hour
• **Minute** – Set the minute.
• **Month** – Set the month.
• **Day** – Set the day.
• **Year** – Set the year

6 **Confirm Settings**
Press the RETURN button to confirm your clock settings and to return to the Clock Set/Adjust.
• Press the RETURN button three times to exit the menu.

Tuner Band Setting

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.

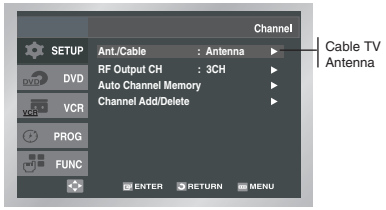
- *Use this setting only if Auto Setup detected the incorrect tuner band, i.e. channels are coming in on the wrong channel numbers.*

1 **Open "MENU"**
With the DVD in Stop or Play mode, press the MENU button.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "SETUP" then press ENTER to select.

3 **Select "Channel"**
Using the UP/DOWN buttons, move the selection bar to "Channel", then press ENTER to select.

4 **Select "Ant./Cable"**
Move the selection arrow to "Ant./Cable" then press RIGHT button to select from the following options:
- 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.



RF Output Channel

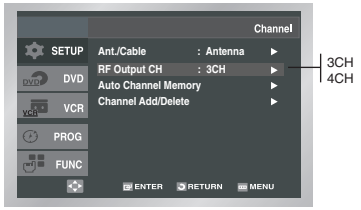
Use this feature if DVD-VCR is connected to TV using RF antenna cable.

1 **Open "MENU"**
With the DVD in Stop or Play mode, press the MENU button.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "Setup" then press ENTER to select.

3 **Select "Channel"**
Using the UP/DOWN buttons, move the selection bar to "Channel," then press ENTER to select.

4 **Select "RF Output CH"**
Move the selection bar to "RF Output CH", then press right to change.



5 **Change "RF Output CH"**
A message will appear on your TV.
Then press ENTER to change.

6 **Change "TV Channel"**
A message will appear on your TV. When the message disappears, change your TV to channel 3 or 4 to match the RF output channel of the player.

Auto Channel Memory

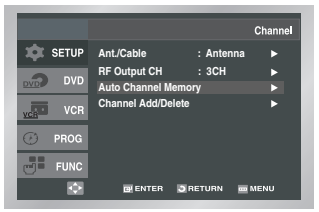
Auto Channel Memory will automatically seek and store all active channels in your area.

1 **Open "MENU"**
With the DVD in Stop or Play mode, press the MENU button.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "SETUP" then press ENTER to select.

3 **Select "Channel"**
Using the UP/DOWN buttons, move the selection bar to "Channel", then press ENTER to select.

4 **Run "Auto Channel Memory"**
Move the selection arrow to "Auto Channel Memory," then press ENTER to select.
- The DVD-VCR will automatically search for all available channels in the selected Tuner Band. 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.
If the power is off, Auto Channel Memory should be reset.

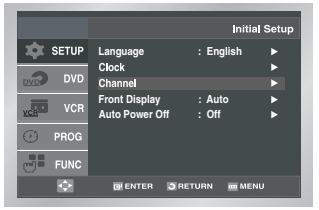
Channel Add/Delete

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

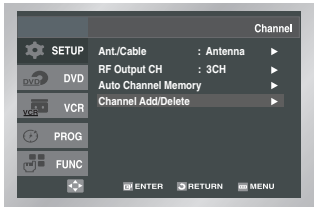
1 **Open "MENU"**
With the DVD in Stop or Play mode, press the MENU button.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "SETUP" then press ENTER to select.

3 **Select "Channel"**
Using the UP/DOWN buttons, move the selection bar to "Channel", then press ENTER to select.

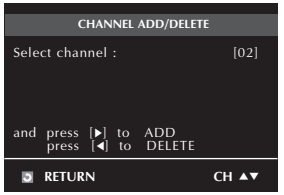


4 **Select "Channel Add/Delete"**
Move the selection bar to "Channel Add/Delete," then press ENTER to select.



5 **Select Channel to Add/Delete**
Use the CH ⌃ / ⌄ buttons to tune in the channel number you wish to add or delete.

6 **Select "Channel Add/Delete"**
Press RIGHT button to add or press left button to delete the channel from your channel list.
- Repeat steps 5 to add or delete additional channels.



Front Panel Dimmer

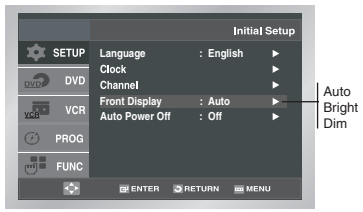
You can set the Front Panel Display to be bright all the time, dim all the time, dim during power off.

1 **Open " MENU"**
With the DVD in Stop or Play mode, press the MENU button.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "SETUP" then press ENTER to select.

3 **Set "Front Display"**
Move the selection bar to "Front Display," then press RIGHT button to select from the following options:

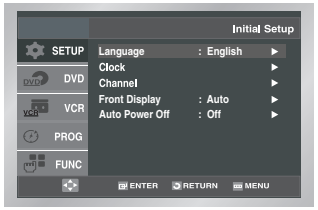
- Auto – Front Panel Display will dim automatically during power off.
- Bright – Front Panel Display will be bright all the time.
- Dim – Front Panel Display will be dim all the time.



Auto Power Off

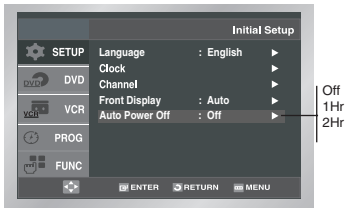
1 **Open "MENU"**
With the DVD in Stop or Play mode, press the MENU button.

2 **Select "SETUP"**
Using the UP/DOWN buttons, move the selection bar to "SETUP" then press ENTER to select.



3 **Set "Auto Power Off"**
Move the selection bar to "Auto Power Off", then press RIGHT button to select from following options:

- Off – Auto power off is disabled.
- 1Hr – DVD-VCR will auto shut off 1 hour after the last button is pressed.
- 2Hr – DVD-VCR will auto shut off 2 hours after the last button is pressed.



Disc Menu Language

To set the Disc Menu Language to your preferred language, follow these steps. If your preferred language is available on a DVD, your Disc Menu Language will automatically be set to the language you choose.

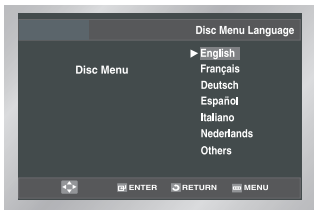
1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD", then press the ENTER button.

3 **Select "Language"**
Move the selection bar to "Language" then press ENTER to select.

4 **Select "Disc Menu"**
Highlight "Disc Menu", then press the ENTER button.

5 **Set "Disc Menu Language" Preference**
Highlight your preferred language for disc menus, then press the ENTER button.



Audio Language

To set the Audio Language to your preferred language, follow these steps. If your preferred language is available on a DVD, your Audio Language will automatically be set to the language you choose.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD" then press the ENTER button.

3 **Select "Language"**
Move the selection bar to "Language" then press ENTER to select.

4 **Select "Audio"**
Highlight "Audio," then press the ENTER button.

5 **Set "Audio Language" Preference**
Highlight your preferred language for audio soundtracks, then press the ENTER button.

Subtitle Language

To set the Subtitle Language to your preferred language, follow these steps. If your preferred language is available on a DVD, your Subtitle Language will automatically be set to the language you choose.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD" then press the ENTER button.

3 **Select "Language"**
Move the selection bar to "Language" then press ENTER to select.

4 **Select "Subtitle"**
Highlight "Subtitle", then press the ENTER button.

5 **Set "Subtitle Language" Preference**
Highlight your preferred language for subtitles, then press the ENTER button.

Digital Output

If your A/V receiver is equipped with a Dolby Digital decoder, your DVD-VCR can output Dolby Digital 5.1 sound, but you MUST enable this feature in the menu system to prevent damage to your speakers.

NOTE: Select "Bitstream" ONLY if you have connected a Dolby Digital-equipped A/V receiver to the Digital Output (coaxial) on the DVD-VCR rear panel.

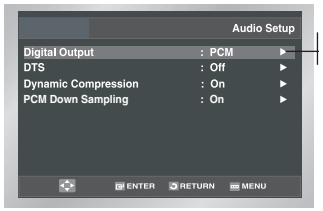
1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD" then press the ENTER button.

3 **Select "Audio"**
Highlight "Audio", then press the ENTER button.

4 **Set "Digital Output"**
Highlight "Digital Output" then press the RIGHT button to select one of the following options:

- PCM – To use your DVD/TV with an A/V receiver without a Dolby Digital decoder.
- Bitstream –To use your DVD/TV with an A/V receiver with a Dolby Digital decoder.



DTS

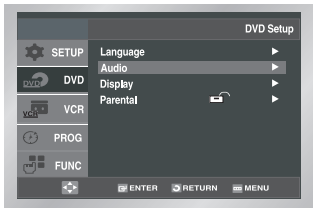
If your A/V receiver is equipped with a DTS decoder, your DVD-VCR can output DTS digital sound, but you MUST enable this feature in the menu system.

NOTE: Select "On" ONLY if you have connected a DTS-equipped A/V receiver to the Digital audio Out (coaxial) on the DVD-VCR rear panel.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

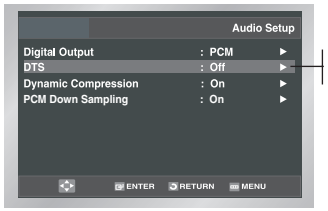
2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD" then press the ENTER button.

3 **Select "Audio"**
Highlight "Audio", then press the ENTER button.



4 **Set "DTS"**
Highlight "DTS" then press the RIGHT button to select one of the following options:

- Off – To use your DVD/TV with an A/V receiver NOT equipped with a DTS decoder.
- On – To use your DVD/TV with an A/V receiver equipped with a DTS decoder



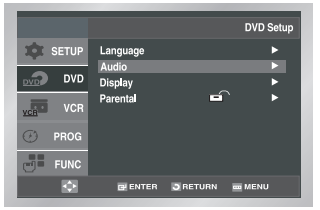
Dynamic Compression

Dynamic Compression restrains the dynamic range of sounds, i.e. the difference between the loud and quiet passages of a DVD audio track.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

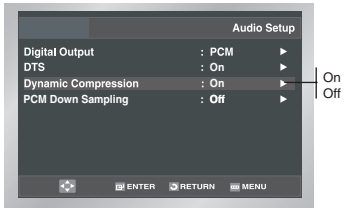
2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD" then press the ENTER button.

3 **Select "Audio"**
Highlight "Audio", then press the ENTER button.



4 **Set "Dynamic Compression"**
Highlight "Dynamic Compression", then press the RIGHT button to select one of the following options:

- On – This will compress the total dynamic range of the DVD audio, making quiet passages in the audio signal louder and loud passages softer.
- Off – This will preserve the original dynamic range.



PCM Down Sampling

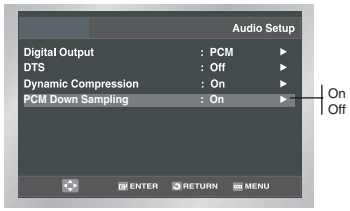
If your amplifier is not capable of reproducing a 96kHz signal, PCM downsampling should be set to on.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD " then press the ENTER button.

3 **Select "Audio"**
Highlight "Audio", then press the ENTER button.

4 **Set "PCM Down Sampling"**
Highlight "PCM Down Sampling", then press the RIGHT button to select one of the following options:
- On – When a 96K audio disc is played, 96K will be downsampled to 48K and outputted.
- Off – When a 96K disc is played, 96K will be outputted.



TV Aspect Ratio

Set the aspect ratio (length x width) of your TV screen so the DVD player will display movies at the appropriate size for your television. Choose from standard, letterbox, or widescreen format.

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD" then press the ENTER button.

3 **Select "Display"**
Highlight "Display", then press the ENTER button.

4 **Set "TV Aspect"**
Highlight "TV Aspect" then press the RIGHT button to select one of the following options:
- Widescreen - This method allows you to view the full 16:9 picture on a widescreen television.
- Letter Box - This method displays the full width of the widescreen movie on a standard 4:3 television. As a result, black bars will appear at the top and bottom of the screen.
- Pan-Scan - The familiar way of watching DVD and VHS movies, this method selectively crops (by panning and scanning to keep the most important part of the picture visible) wide screen movies to fit a standard 4:3 television screen.

Black Level

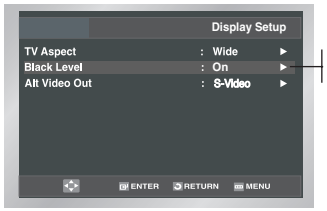
The Black Level feature adjusts the reference level of black in the video signal to one of two choices:
- *Off - Standard NTSC black level. Yields consistent contrast through all sources.*
- *On - Enhanced black level, for increased contrast during DVD playback.*

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD " then press the ENTER button.

3 **Select "Display"**
Highlight "Display", then press the ENTER button.

4 **Set "Black Level"**
Highlight "Black Level," then press the RIGHT button to select one of the following options:
- On – This will enhance the Black Level for increased brightness/contrast when viewing DVDs.
- Off – This is the Standard NTSC reference Black Level for consistent brightness/contrast across all sources.



Alt Video Out

The "Alt Video Out" option must be set in the on-screen menu if you have connected your DVD-VCR to a TV using the S-VIDEO OUT or COMPONENT VIDEO OUT jacks.

- *Use the S-Video or Component Video connection method only for the DVD player. The tuner and VCR can still be viewed through the RF or line outputs.*

1 **Open "MENU"**
Press the MENU button while the DVD is in Stop mode.

2 **Select "DVD"**
Use the UP/DOWN buttons to highlight "DVD," then press the ENTER button.

3 **Select "Display"**
Highlight "Display", then press the ENTER button.

4 **Set "Alt Video Out"**
Highlight "Alt Video Out," then press the RIGHT button to select one of the following options:

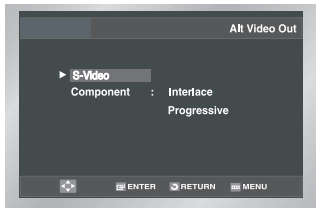
- S-Video - Select this if you are using the S-Video OUT jack on the rear panel to connect to a TV.

- Component - Select this if you are using the COMPONENT VIDEO OUT jacks on the rear panel to connect to a Progressive(480p) or Interlaced (480i) TV.

- See your TV owner's manual to determine what type of TV you have.
  - Interlace : Interlaced Scan mode will work.
  - Progressive : Progressive Scan mode will work, and Video and S-Video will not work.

Alt Video Out

- Press the PROGRESSIVE button on the front panel in stop mode if you have a Progressive scan TV only. Otherwise, the picture will be disturbed.



Parental

Rating Control is a password protected system that allows you to block playback of DVDs based on their content. The system uses an eight level rating system.

- ***If you try to play a DVD that exceeds the selected rating, an error message will appear.***
- ***Not all discs are rated.***

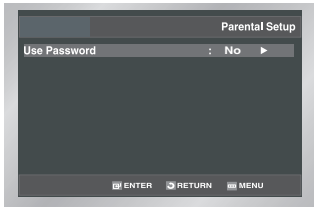
1 Open "MENU"
Press the MENU button while the DVD is in Stop mode.

2 Select "DVD"
Use the UP/DOWN buttons to highlight "DVD " then press the ENTER button.

3 Select "Parental"
Highlight "Parental", then press the ENTER button.

4 Select "Use Password"
Press the RIGHT button to select one of the following options:
- No - No password is necessary to view a DVD or to change the Rating Level. No additional settings are necessary.
- Yes - A password is necessary to view a DVD and to view the Rating Level. The menu will change as shown.

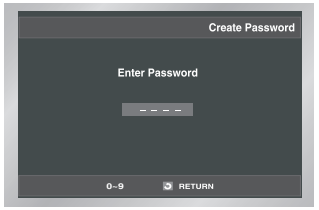
NOTES:
- The first time "Use Password" is set to "No," you will be prompted to enter a new password.
- If the "Enter Password" screen appears, then "Use Password" has already been set to "Yes." Please skip to Step 6.
- There is no default password.



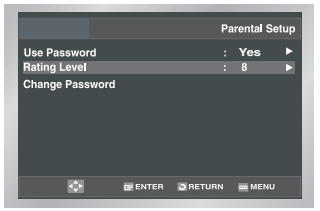
Parental

5 Enter Password

Use the numeric buttons (0-9) on the remote control to enter the 4-digit password.
- Write your password down, and keep it in a safe place in case you need to change your settings later.



6 Select "Rating Level"
Move the selection bar to "Rating Level," then press ENTER to select.



7 Change Rating Level
Use the UP/DOWN buttons to select one of the following ratings:

- Level 8 Adult
- Level 7
- Level 6
- Level 5
- Level 4
- Level 3
- Level 2
- Level 1 Kids Safe

All ratings above the level you select will also be blocked, e.g., if you select Level 6, then Levels 7 and 8 will also be blocked.
Press Enter to confirm your selection.
- If you forgot your password, press power on from a cold start with no disc in the unit. Press the REW and F.F buttons simultaneously on the front panel for 5 seconds. The "Reset Ok" message will appear. Press the POWER button.

Special Playback Features

During DVD/CD playback you can select from the following special playback options. To resume normal playback, press the ►II(PLAY/PAUSE) button.

1 PAUSE
Press the ►II(PLAY/PAUSE) button on the remote control during playback.
- The picture will pause and the audio will mute.
- To resume playback, press the ►II(PLAY/PAUSE) button.
- If the player is left in Pause mode for 5 minutes, it will stop automatically.

2 Frame Advance (Step)
While in PAUSE mode, press the F.ADV/SKIP button on the remote control to advance one frame at a time.
- Audio is muted during Frame Advance mode.
- Press ►II(PLAY/PAUSE) to resume normal playback.

NOTE: Frame Advance operates only in the forward direction.

3 Skip Forward/Back
While a CD or DVD disc is in Play mode, press the SKIP FORWARD/BACK (►►I / I◄◄) buttons on the remote control or front panel to jump forward and backward through disc chapters/tracks.
- Skip Forward will jump to the next chapter/track.
- Skip Back will jump to the beginning of the current chapter/track.
- Press Skip Back again to jump to the beginning of the previous chapter/track.

Search Forward/Back

While a disc is in Play mode, press and hold the FORWARD/BACK (►► / ◄◄) buttons on the remote control or front panel to visually search forward/backward at 2X - 8X - 32X - 128X speed. Press ►II(PLAY/PAUSE) button to resume normal speed.
NOTE: CD search speed - 2X, 4X, 8X

4 Slow Motion
During playback, press the►II(PLAY/PAUSE)button to pause the image. Press and hold the Search FORWARD (►►) to play in slow motion at variable speeds.
- Press and hold the FORWARD(►►) button on the remote and front panel to increase the speed from normal playback to 1/8, 1/4 or 1/2 speed.
- Audio is muted during slow motion playback.
- Press the ►II(PLAY/PAUSE) button to resume normal playback.

NOTE:
- Slow function is not available for CD.
- Slow motion operates only in the forward direction

Special Playback Features

5 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 ►II (PLAY/PAUSE), the disc will start over from the beginning.

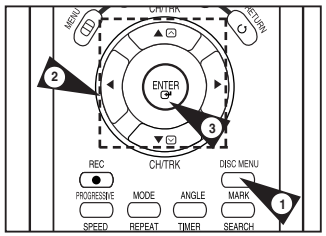
Disc Menu Navigation

Many DVDs feature their own menu systems, where you can select Titles, Chapters, Audio Tracks, Subtitles, and special disc features, such as movie trailers, and information on the cast. Use these buttons to make selections in the Disc menus.

1 DISC Menu
Press to access the DVD's Disc menu, if applicable.

2 Press UP/DOWN and LEFT/RIGHT to navigate through DVD's Disc menu options.
- Press UP/DOWN and LEFT/RIGHT to highlight menu choices.

3 ENTER Button
Press to make your selections in the Disc menu.



EZ View

1 Press the EZ VIEW button on the front panel.
- The screen size changes when the button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the initial setup menu.
- To ensure correct operation of the EZ VIEW button, you should set the correct aspect ratio in the initial setup .(See the page 20)

2 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 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 the 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.

EZ View

- **SCREEN FIT**
  The top and bottom 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 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.

3 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 of the screen are cut off and displays the central portion of the 16:9 screen.
  - **SCREEN FIT**
    The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.
  - **ZOOM 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.
- ***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 of the screen are cut off and the full screen appears. The picture would 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.

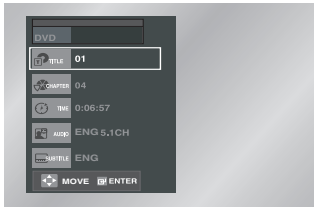
➢ This function may behave differently depending on the type of disc.

Title/Chapter/Time Selection

To view the current Title, Chapter/Track, and counter position, press the INFO. button during DVD playback. The Information screen can also be used to quickly choose a title, chapter/track, or playing time.

1 View the Display
During DVD/CD playback, press the INFO. button on the remote control.

2 Select title
Use the UP/DOWN and LEFT/RIGHT buttons to select Title, then press the numeric buttons or LEFT/RIGHT buttons to change among all available titles on the disc.



3 Select Chapter or Track
Use the UP/DOWN and LEFT/RIGHT buttons to select Chapter or Track, then press the ENTER button to change among all available Chapters/Tracks on the disc.

4 Select Counter Position
Use the UP/DOWN button to select the counter position indicator, then use the numeric buttons (0-9) to enter the desired counter position in the format H:MM:SS (H = Hours, M = Minutes, S = Seconds).
Then press the ENTER button to enter the desired counter position.

Title/Chapter/Time Selection

➢ To make the screen disappear, press the INFO button again.

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.

Most DVD discs are recorded in chapters so that you can quickly find a specific passage.

Allows playback of the film from a desired time. You must enter the starting time as a reference.

Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.

Refers to the subtitle languages available in the disc. You will be able to choose the subtitles language or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.

Angle View

Some DVD Movies provide you with various camera angle views on the same scene while they are playing. To activate the feature press the ANGLE Button.

1 **Check for the Angle Icon**
If the DVD contains a Multi Angle function, the Angle icon will appear at upper right hand of the screen.

2 **View Angle Menu Options**
When the Angle Icon comes up on the screen press the ANGLE button to see the Angle menu.

3 **Select an Angle option**
Press the LEFT/RIGHT buttons to select a camera angle you wish to see.

Subtitle

Some DVDs provide subtitles in one or more languages. You can use the SUBTITLE button to quickly view and change settings.

1 **Open Subtitle Menu**
During playback, press the SUBTITLE button.

2 **Set Subtitle Language**
Use the LEFT/RIGHT buttons to select from the available subtitle languages.
- Subtitle languages are represented by abbreviations.

3 **Activate Subtitles**
Use the UP/DOWN buttons to turn On or Off subtitles.
- The default is "On".
- To make the screen disappear, press the SUBTITLE button again.

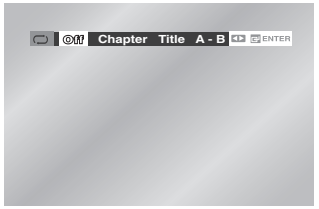
A to B Repeat

A to B Repeat feature enables you to repeat the designated section on a DVD or CD. To activate, mark where to start(A) and where to end(B) of the section you want to watch.

1 **Select A-B Repeat Function**
Press the REPEAT button while in Play mode, then use the Left/Right buttons to select A-B Repeat.
- When you select A-B Repeat, “A-” will be highlighted.

NOTE: The menu will display “Track” in place of “Chapter” if you are playing a CD.

DVD



CD

2 **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 highlighted.

NOTE: The minimum A -B Repeat time is 5 seconds.

3 **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.

4 **Cancel A-B Repeat**
Press the REPEAT button to open the Repeat Menu, use the LEFT/RIGHT buttons to highlight “Off,” then press the ENTER button.

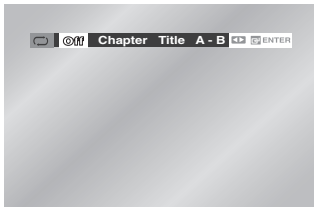
Repeat Chapter/Title

You can repeat a single chapter or a complete title.

1 **Open Repeat Menu**
Press the REPEAT button while in Play mode to open the Repeat menu.
- The current Repeat mode will be highlighted.

2 **Select “Chapter / Track”**
Use the LEFT/RIGHT buttons to select “Chapter/ Track”.
- When you select Chapter/Track Repeat, “Chapter/Track” will be highlighted.

DVD



CD

3 **Repeat Chapter/Track**
Press the ENTER button to repeat the current chapter or Track.

4 **Select “Title/Disc”**
Use the LEFT/RIGHT buttons to select “Title/Disc”.
- When you select Title/Disc Repeat, “Title/Disc” will be highlighted.

5 **Repeat Title/Disc**
Press the ENTER button to repeat the Title/Disc.

Audio

Multiple audio language setup options, such as Dolby Digital 5.1, Dolby Pro Logic, or LPCM 2 Channel audio, are available on some DVDs. You can use the AUDIO button to quickly view and select the options available on a disc.

1 **Open the Audio Menu**
During playback, press the AUDIO button on the remote control.

2 **Select DVD Audio Track**
Use the LEFT/RIGHT buttons to select the desired audio language setup on the DVD.
- Languages are represented by abbreviations, e.g. "ENG" for "English."

DVD

CD

Bookmarks

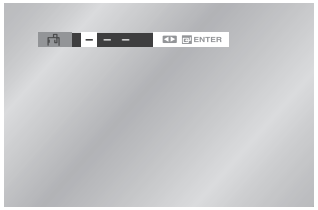
Up to three Bookmarks can be inserted for a given DVD, allowing you to quickly jump to your favorite scene or song.

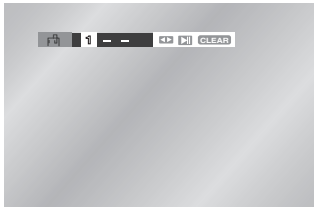
1 **Open Bookmark Menu**
During playback, press the MARK button on the remote control.
The "MARK" header will be displayed on the screen.

2 **Select Bookmark Placeholder**
Use the LEFT/RIGHT buttons to move to one of the three bookmark placeholders (- - -).
- The selected placeholder will be highlighted.

3 **Set the Bookmark**
Keep on playing the DVD up to the scene you want to bookmark, then press the ENTER button. The placeholder (-) will change to a number (1, 2 or 3).
- You may continue to set up to three bookmarks.
- Press the MARK button when complete.
- Depending on the disc, the bookmark function may not work.

4 **Play Bookmark**
- During playback, press the MARK button on the remote control.
- Use the LEFT/RIGHT buttons to move to a previously set bookmark.
- Press the ►II(PLAY/PAUSE) button to play the bookmark.
- Press the CLEAR button to cancel the bookmark.
- Press the MARK button again to exit the Bookmark menu.





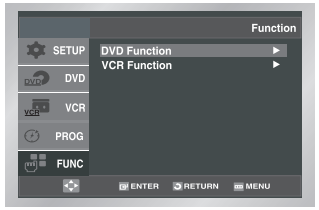
Function (DVD)

Use this feature to check your DVD.

1 **Open "MENU"**
With the DVD in Play mode, press the MENU button.

2 **Select "FUNCTION"**
Use the UP/DOWN buttons to highlight "FUNCTION" then press the ENTER button.

3 **Select "DVD Function"**
Using the UP/DOWN buttons to highlight "DVD Function" then press ENTER to select.



4 **Select "Title Menu"**
Highlight "Title Menu", then press the ENTER button.

- **Disc Menu**
Highlight " Disc Menu", then press the ENTER button.

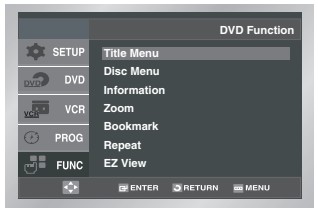
- **Information**
Highlight "Information", then press the ENTER button.

- **Zoom**
Highlight "Zoom", then press the ENTER button.

- **Bookmark**
Highlight "Bookmark", then press the ENTER button.

- **Repeat**
Highlight "Repeat", then press the ENTER button.

- **EZ View**
Highlight "EZ View", then press the ENTER button.



Special VCR Playback Features

While a videotape is playing, you can enjoy a variety of special playback features, including Still, Frame Advance, Skip, Repeat, and more. Press the Play button again to resume normal playback.

1 **Pause**
In Play mode, press ►II(PLAY/PAUSE) to still a single frame.

2 **Frame Advance**
In the pause mode, press F.ADV/SKIP to advance to the next frame.

3 **Fps/Review**
In Play mode, press FORWARD (►►) or REWIND (◄◄) to Cue/Review at two speeds:
- Picture Search — Press and release to advance the tape forward or backward at 5 times normal speed.
- Jet Search — Press and hold to advance the tape forward or backward at 7 times normal speed.

4 **Skip**
In Play mode, press F.ADV/SKIP to cue ahead exactly 30 seconds. Press F.ADV/SKIP repeatedly up to 4 times to cue ahead 2 minutes.

5 **Repeat**
- In Play mode, press Repeat to review the last 5 seconds of tape (SP mode).
- In Play mode, press Repeat to review the last 15 seconds of tape (SLP mode).

6 **Shuttle**
In Play mode, Shuttle >> gradually increases the cue speed: Double Speed playback - Picture Search - Jet Search. Shuttle << gradually slows down the tape, then goes into Slow mode, Still mode, Reverse Picture Search and Reverse Jet Search.

Press the INFO. button to see the current status of the VCR deck, as well as the tape counter position and record speed.

Tracking

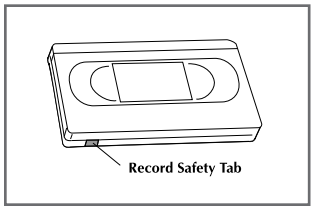
The Tracking adjustment removes the white lines that sometimes appear during playback because of slight differences in recording decks. The TRK button will automatically align the recorded tracks with the playback heads to solve this problem. You may also set tracking manually.

1 Adjust Tracking Manually
During playback, press the CH/TRK ⌃ / ⌄ buttons to remove white lines from the picture.

Auto Play

If you want your videotapes to play automatically when you insert them, turn on Auto Play.

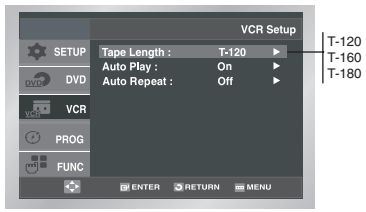
NOTE: Only tapes that are missing the Record Safety Tab will play automatically when inserted.



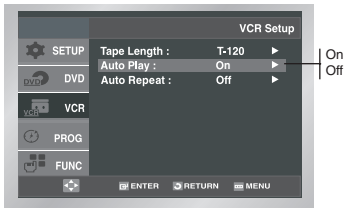
1 Open the "MENU"
With the VCR in Stop or Play mode, press the MENU button.

2 Select "VCR"
Using the UP/DOWN buttons, move the selection bar to "VCR" then press ENTER to select.

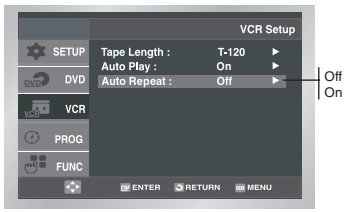
3 Select "Tape Length"
Press the RIGHT button to select the Tape Length. This information is usually printed on the tape box. The menu cycles through: T-120, T-160 or T-180. Once the type of cassette is set, the VCR can display the amount of time remaining on the tape when you press the INFO. button.



4 Select "Auto Play"
Move the selection bar to "Auto Play," then press right button to select from the following options:
- 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.
- Off - Auto play is disabled.



5 Select "Auto Repeat"
Move the selection bar to " Auto Repeat". It sets the VCR to play a tape repeatedly [unless a tape control is activated (stop, fast forward or rewind)].



S-VHS Playback

The DVD-VCR allows you to playback high quality S-VHS tapes.

1 Insert a S-VHS Tape
Insert an S-VHS tape into the VCR deck.

2 Start Playback
Press ►II(PLAY/PAUSE) on the remote control to begin playback of the S-VHS tape.

Variable Search System

Press the SEARCH button to display the search screen in the stop mode. 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.

1 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 the CLEAR button at the point on the tape where you want to set the counter to [0:00:00]. While a cassette is stopped, press the ENTER button. The VCR will rewind or fast forward, searching for the [0:00:00] counter position, and then automatically stop at that position.

2 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 stopped, press ENTER button. The VCR will fast forward, searching for a blank position, and then automatically stop at that position. If the VCR reaches the end of the tape during end search, the tape will be ejected.

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

- **Forward Intro Scan**
  Highlight "Forward Intro Scan", then press the ENTER button.
- **Reverse Intro Scan**
  Highlight "Reverse Intro Scan", then press the ENTER button.

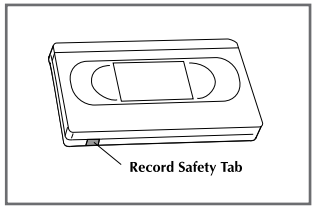
Basic Recording

You can record a TV show in progress by inserting a blank tape and pressing the ●(REC) button. You can even add time in 30-minute increments up to 4 hours by pressing the ●(REC)button repeatedly; see page 33.

NOTE: Be sure your videotape has a Record Safety Tab. If the tab is missing, you can cover the opening with a small piece of tape. Warning: Do not cover this opening unless you are sure you want to record over the tape.

Before You Begin...

- *Power on the DVD-VCR*
- *Power on the TV*



1 **Insert Tape**
Insert a blank VHS tape into the VCR deck.
- Make sure the tape is long enough to record the entire program.
  To change the Recording Speed, see page 33.

2 **Select a Channel to Record**
Use the 0–9 buttons or the Channel UP/DOWN arrow buttons to select the desired channel, or press the INPUT SEL. button to select Line 1 or 2 if recording from an external device connected to the front or rear Line inputs, respectively.

3 **Start Recording**
Press the ●(REC) button on the remote control or front panel.
For options while recording is in progress, see "Special Recording Features".

➢ Recording from the DVD player to the VCR is not possible.

4 **Pause/Resume Recording**
Press the ►II(PLAY/PAUSE) button.
Press ●(REC) again to resume.

5 **Stop Recording**
Press the ■ (STOP) button.

Special Recording Features

While a recording is in progress, you can watch a different channel, watch a DVD, or add recording time in 30-minute increments.

1 **To Watch a different Channel**
Make sure that you connect the DVD-VCR to the TV using an RF cable.
- When you watching through RF cable and during recording, press the TV/VCR button on the remote control. Using your TV remote control, change the channel you want to watch.
- When you watching through Line and during recording, change the connection of your TV from Line to Antenna. Using your TV remote control, change the channel you want to watch.

2 **To Watch a DVD**
Insert a DVD in the DVD deck and press ►II (PLAY/PAUSE). The output will automatically change to the DVD.

3 **To Add Recording Time**
See One-Touch Recording (OTR) on the following.

One-Touch Recording (OTR)

One-Touch Recording (OTR) allows you to add recording time in 30-minute increments up to 4 hours at the touch of a button.

1 **Start Recording**
Follow the instructions on page 32 to begin recording.

2 **Activate OTR**
While in Record mode, press the ●(REC) button again to activate One-Touch Recording (OTR).
- Record length 0:30 appears on the On-Screen Display and the DVD-VCR will record for exactly 30 minutes.

3 **Add Recording Time**
Continue pressing ●(REC) to add recording time in 30 minute increments up to 4 hours.
- The DVD-VCR stops recording automatically when the time has elapsed. And DVD-VCR will be Automatically turned off when the OTR finished.

Record Speed

You can slow down the recording speed from SP to SLP in order to fit six hours of programming on a T-120 tape.

1 **Start Recording**
Follow the Basic Recording instructions on page 32.

2 **Set Record Speed**
Press the SPEED button on the remote control to set the Record Speed to one of the following options:
- SP – Standard Play, for best quality.
- SLP – Super Long Play, for maximum recording time (3 times SP).

NOTE: The selected Record Speed will appear on the front panel display and on-screen display.

Maximum Recording Time - SP vs. SLP

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

How to Set a Timer Recording

Insert a blank videotape into the VCR deck. Be sure to leave the Record Safety Tab intact.

With the Timer Recording function, you can program up to 7 events at a time to record up to a month in advance.

To Begin Setting the Timer Recording,

- *Turn on your DVD-VCR, and*
- *Turn on your TV.*

1 **Open "MENU"**
Press the MENU button or the TIMER button while the VCR is in Stop or Play mode.

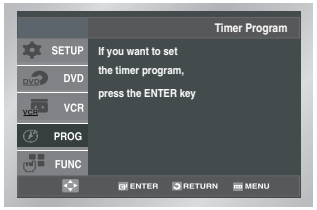
2 **Select "Program"**
Use the UP/DOWN buttons to highlight "PROGRAM" then press the ENTER button.

3 **Select Channel Number**
Use the RIGHT and UP/DOWN buttons to set the channel. Press the RIGHT button to move to the next setting.

How to Set a Timer Recording

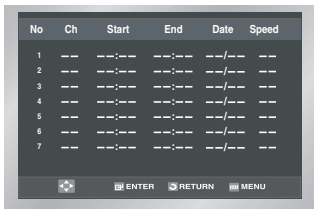
4 Set "Time/Date/Speed"
Repeat Step 3 above to set start time, end time, date and record speed. Date can be set for one time, daily or weekly recording.

5 Save "Timer Recording"
Press the RETURN button to finish setting the timer recording. Stop the VCR or turn the power off. Then the VCR will automatically turn on and begin recording at the time you set. To stop the timer recording, press the POWER button or press the ■ (STOP) button twice.



6 Auto Speed Select
If the length of the videotape is not long enough for a timer recording in the SP mode, set the recording tape speed to "AUTO". Recording will start in the SP mode. If the length is not long enough, the tape speed will automatically change from SP mode to SLP mode.

7 Daily/Weekly Date Programming
Weekly [Sun's~Sat's]: Use this to record TV programs on the same channel at the same time every week. Daily [MO - FR] : Use this to record TV programs on the same channel at the same time every day Monday through Friday.



Function (VCR)

1 Open "MENU"
In the DVD in Stop or Play mode, press the MENU button.

2 Select "FUNCTION"
Use the UP/DOWN buttons to highlight "FUNCTION" then press the ENTER button.

3 Select "VCR Function"
Using the UP/DOWN buttons to highlight "VCR Function" then press ENTER to select.

4 Select "Go to [0: 00: 00]"
Highlight "Go to [0: 00: 00]", then press the ENTER button.

- **End Search**
  Highlight "End Search", then press the ENTER button.
- **Forward Intro Scan**
  Highlight "Forward Intro Scan", then press the ENTER button.
- **Reverse Intro Scan**
  Highlight "Reverse Intro Scan", then press the ENTER button.

Technical Specifications

Inputs	AUDIO	2 Stereo audio inputs, RCA Connector, -8dbm, 47KΩ, front and rear
	VIDEO	2 Composite video inputs, RCA Connector, 75Ω, 1Vp-p
	RF	Antenna or CATV Input, F-Connector, 75Ω
Outputs	AUDIO	1 Stereo audio outputs, RCA Connector, -8dbm, 1.5KΩ
	AUDIO (DVD only)	1 Digital audio output (1 coaxial) 1 pair Stereo audio outputs
	VIDEO	1 Composite video output, RCA Connector, 75Ω, 1Vp-p
	VIDEO (DVD only)	1 S-Video output, S-Connector, 75Ω, Y=1.0Vp-p, C=0.286Vp-p
		1 Component video output, 75Ω, Y=1.0Vp-p, Pb=0.7Vp-p, Pr=0.7Vp-p
VCR	RF	Channel 3 or 4
	VIDEO SYSTEM	1/2-inch VHS system, 4 rotary head helical scanning; FM azimuth luminance;chrominance: converted sub system phase shift
	AUDIO TRACK	Normal: 1 track; Hi-Fi: 2 track
	PLAY/RECORD TIME	T-180 tape: SP 3 hours, SLP 9 hours
	FF/REW TIME	T-120 tape: <2 minutes
	HEADS	Video: DA 4 rotary Audio: 2 rotary heads (Hi-Fi); 1 stationary head (Linear) Control: 1 stationary head Erase: 1 full track, 1 audio track
	WOW & FLUTTER	Less than 0.005% (Hi-Fi)
	FREQ. RESPONSE	20-20,000 Hz (Hi-Fi)
DVD	DISC COMPATIBILITY	CD, CD-R, CD-RW DVD-Video, CD-Digital Audio (5" and 3.5")
	FREQ. RESPONSE	96/48 kHz Sampling: 4 Hz-22kHz
	S/N RATIO	110 dB
	DYNAMIC RANGE	96 dB
	THD	0.003 %
SYSTEM	POWER REQUIREMENT	120V AC, 60 Hz, 25 watts
	ENVIRONMENT	41-104˚F (5-40˚C); 10%-75% humidity
	WEIGHT	13.8 lbs.

SAMSUNG COMBINATION DVD & VCR

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(*90 Days Parts and Labor for Commercial Use)

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