

**SONY®**

4-255-608-11

# ***DVD/VCR Receiver Home Theatre System***

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Operating Instructions



***DAV-D150G***

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## Safety Precautions

### WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

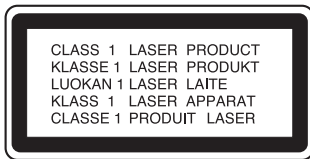
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only. The mains lead must only be changed at a qualified service shop.

To prevent fire, do not cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

AC power cord must be changed only at the qualified service shop.



Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

**CE** This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

### Precautions

#### Safety

- This unit operates on 230 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- The DVD/VCR Receiver is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.

#### Installing

- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal or vertical position only.
- Keep the unit, cassettes and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.
- Do not place the unit on surfaces (rug, blanket, etc.) or near materials (curtains, draperies) that may block the ventilation slots.

### CAUTION

#### For use of the VIDEO

Television programmes, films, video tapes and other materials may be copyrighted.

Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or program owner.

#### For use of the DVD player

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents, 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.

### Welcome!

Thank you for purchasing Sony Home Theatre System. Before operating this system, please read this manual thoroughly and retain it for future reference.

**VIDEO Plus+**

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ System is manufactured under license from Gemstar Development Corporation.

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## About the symbols for instructions






Indicates hazards likely to cause harm to the unit itself or other material damage.

**Note** Indicates special operating features of this unit.

**Tip** Indicates tips and hints for making the task easier.

## Before Use

### Playable Discs

	DVD (8 cm / 12 cm disc)
	Video CD (VCD) (8 cm / 12 cm disc)
	Audio CD (8 cm / 12 cm disc)

In addition, this unit can play a DVD-R/±RW, SVCD and CD-R or CD-RW that contains audio titles, MP3 or JPEG files.

#### Notes

- Depending on the conditions of the recording equipment or the CD-R/R (or DVD-R, DVD±RW) disc itself, some CD-R/R (or DVD-R, DVD±RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

#### Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added.

Make sure to also refer to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be able to be played on the unit.

#### Regional code of the DVD/VCR Receiver and DVDs

This DVD/VCR Receiver is designed and manufactured for playback of region “2” encoded DVD software. The region code on the labels of some DVDs indicates which type of player can play those discs. This unit can only play DVDs labeled “2” or “ALL”. If you try to play any other discs, the message “Check Regional Code” will appear on the TV screen. Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable.



### Disc-related terms

#### Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album.

Each title is assigned a title reference number enabling you to locate it easily.

#### Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

#### Track (Video CD and Audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

#### Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called “Scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

### Types of video CDs

There are two types of video CDs:

#### Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

#### Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

#### Notes

“Music discs encoded with copyright protection technologies”

This product is designed to playback discs that conform to the Compact Disc (CD) standard.

Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

## Before Use (Continued)

### Precautions

#### Handling the unit

##### When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory.

##### When setting up the unit

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

##### To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

#### Cleaning the unit

##### To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

##### To obtain a clear picture

The DVD/VCR Receiver is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.) For details, please contact your nearest dealer.

#### Notes on Discs

##### Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc.

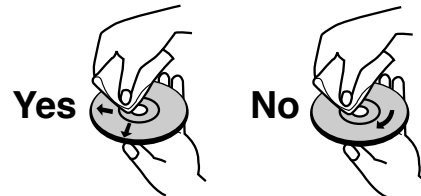


##### Storing discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

##### Cleaning discs


Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.







#### About Symbols

##### About the symbol display

" " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available at that moment or with that specific DVD.

##### About the disc symbols for instructions

A section whose title has one of the following symbols are applicable only to those discs represented by the symbol.

-  DVD
-  Video CDs with the PBC (playback control) function.
-  Video CDs without the PBC (playback control) function.
-  Audio CDs.
-  MP3 Discs.
-  JPEG Files.

#### Selecting the Viewing Source

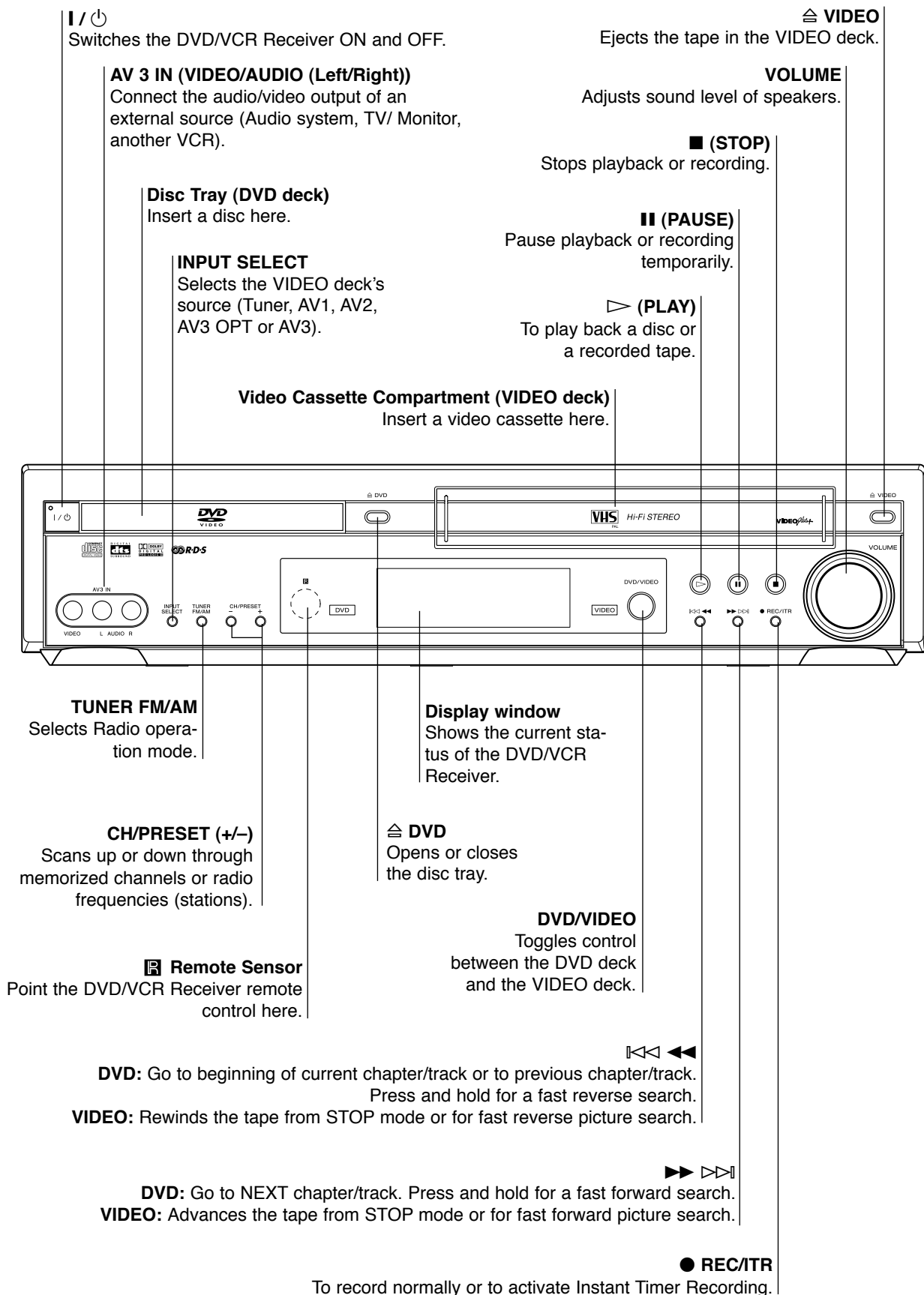
You must select one of your output sources (DVD or VIDEO) to view on the TV screen.

- **If you want to view DVD deck output source:** Press DVD on the remote or DVD/VIDEO on the front panel until DVD indicator in the display window lights and output source of DVD deck is viewed on the TV screen.
- **If you want to view VIDEO deck output source:** Press VIDEO on the remote or DVD/VIDEO on the front panel until VIDEO indicator in the display window lights and output source of VIDEO deck is viewed on the TV screen.

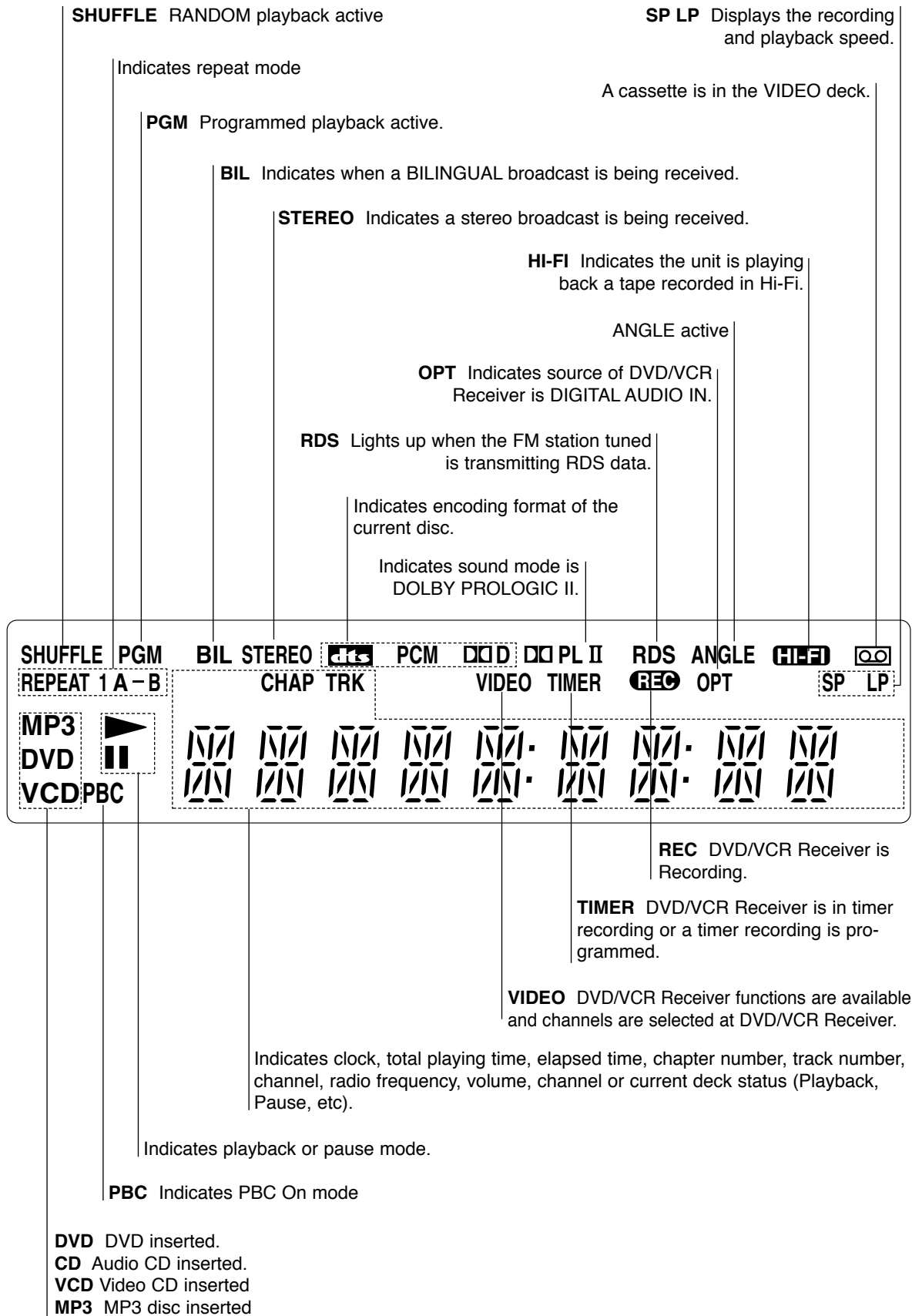
##### Note

If you insert a cassette tape without an erasure prevention tab intact while the DVD/VCR Receiver is in the DVD mode, the DVD/VCR Receiver will switch to VIDEO function mode automatically.

## Front Panel

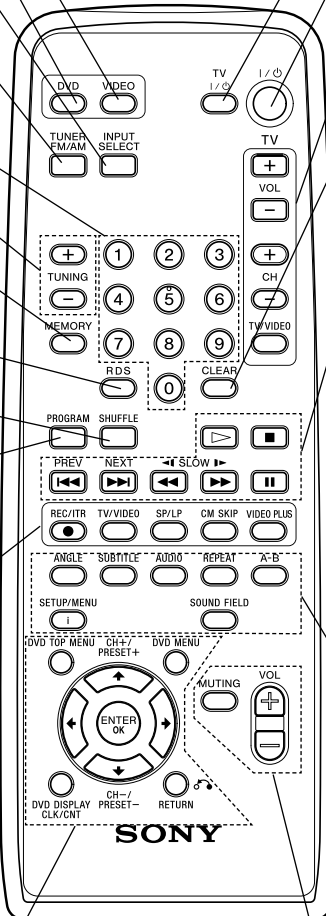


# Display Window



# Remote Control

- VIDEO**  
Select the output source to VIDEO.
- DVD**  
Sets the output source to DVD.
- INPUT SELECT**  
Selects the VIDEO deck's source (AV1, AV2, AV3 OPT, AV3, Tuner).
- TUNER FM/AM**  
Selects the DVD/VCR Receiver's tuner as the listening choice. (FM and AM bands)
- 0-9 numerical buttons**  
Selects numbered options in a menu.
- TUNING (+/-)**  
To tune in the desired station.
- MEMORY**  
Memorize a radio station frequency into the tuner.
- RDS**  
Start a search for a specific PS type.
- SHUFFLE**  
Plays tracks in random order.
- PROGRAM**  
Enters to the program edit mode or exits from that.
- REC/ITR**  
Records normally or activates Instant Timer Recording.
- TV/VIDEO**  
To view channels selected by the VIDEO tuner or by the TV tuner.
- SP/LP**  
Selects recording speed.
- CM SKIP**  
Fast forwards picture search through 30 seconds of recording.
- VIDEO PLUS**  
To display the programme menu for VIDEO Plus+ System programming.
- DVD TOP MENU**  
Displays the disc's Title menu, if available.
- DVD MENU**  
Accesses menu on a DVD disc.  
←/→/↑/↓ (left/right/up/down)  
Selects an option in the menu.
- CH/PRESET(+/-)**: Selects a program of VIDEO or Tuner. Adjusts manually the tape's picture onscreen.
- ENTER/OK**  
Acknowledges menu selection.
- DVD DISPLAY, CLK/CNT**  
Accesses On-Screen display. Switches among the clock and tape counter.
- RETURN**  
Returns the setup menu.



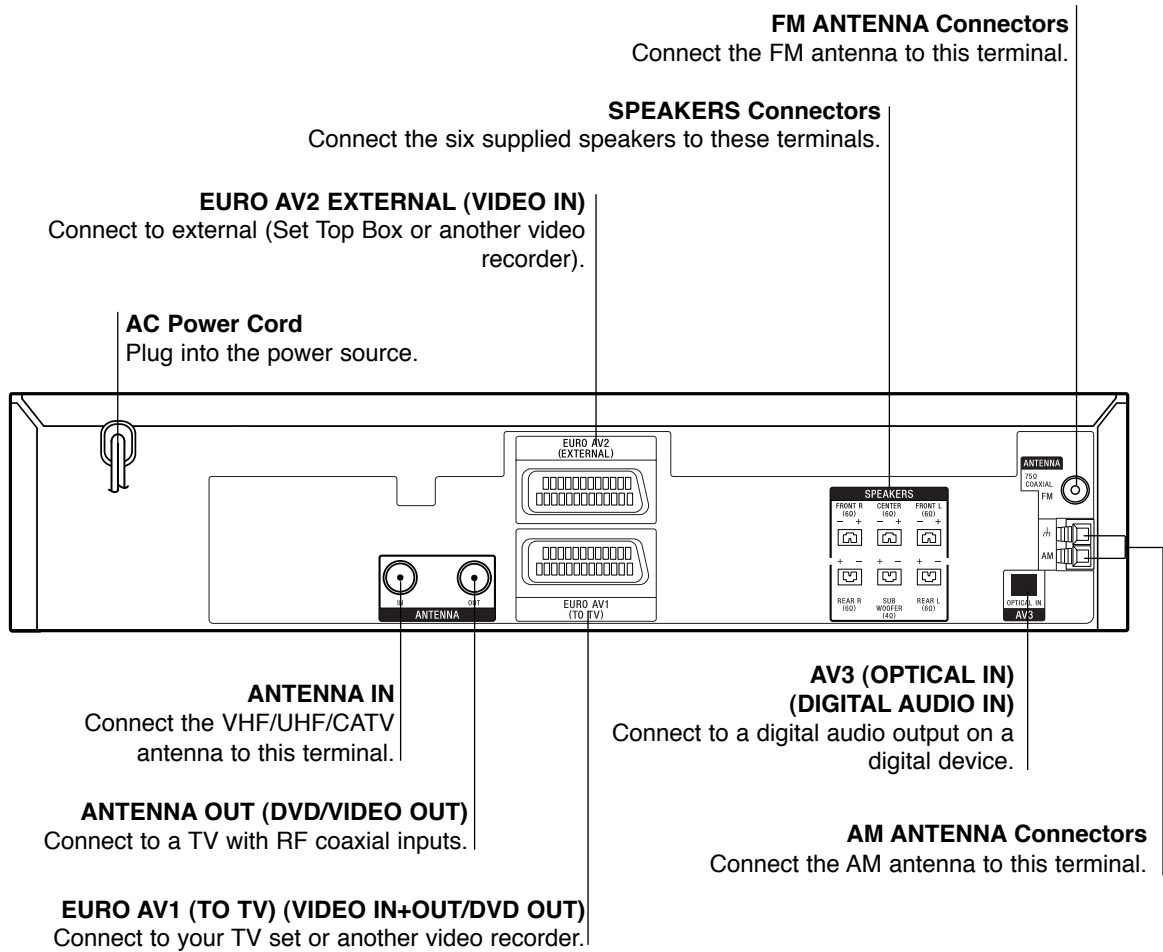
- TV I / ⏻**  
Switches TV ON and OFF.
- I / ⏻**  
Switches DVD/VCR Receiver ON and OFF.
- TV Control Buttons (see page 41)**
  - **VOL +/-**: Adjusts TV's volume.
  - **CH +/-**: Selects TV's channel.
  - **TV/VIDEO**: Selects the TV's source.
- CLEAR**  
Removes a track number on the program menu. To clear preset stations from the tuner memory.
- Playback Control Buttons**
  - **▶ (PLAY)**  
Starts playback.
  - **■ (STOP)**  
Stops playback.
  - **◀◀ (PREV) (DVD mode only)**  
Go to beginning of current chapter or track or go to previous chapter or track.
  - **▶▶ (NEXT) (DVD mode only)**  
Go to next chapter or track.
  - **◀◀▶▶ (SLOW ◀/▶)**  
DVD: For picture search or slow playback backward or forward.  
VIDEO: Rewinds or advances the tape in STOP mode or for picture search.
  - **⏸ (PAUSE)**  
Pause playback or recording temporarily.
- ANGLE**  
Selects a DVD camera angle if available.
- SUBTITLE**  
Selects a subtitle language.
- AUDIO**  
Selects an audio language (DVD) or an audio channel (CD).
- REPEAT**  
Repeat chapter, track, title, all.
- A-B**  
Repeats sequence.
- SETUP/MENU (i)**  
Accesses or returns DVD setup menu and VIDEO setup menu.
- SOUND FIELD**  
Selects sound mode between BYPASS, PRO LOGIC, PRO LOGIC II (MOVIE, MUSIC, MATRIX) and 3D SURROUND.
- VOL (+/-)**  
Adjusts speaker volume.
- MUTING**  
Momentarily silence the speaker of the DVD/VCR Receiver.

## Note

This remote control uses the same buttons for VIDEO and DVD functions (ex. PLAY).  
To use the VIDEO, first press the VIDEO button.  
To use the DVD, first press the DVD button.

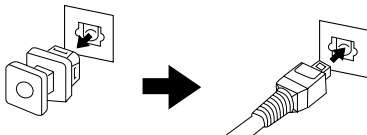


## Rear Panel



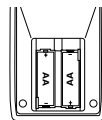
### Dust Protection Cap

Remove the dust protection cap from the OPTICAL IN jack and connect the optical digital cable (not supplied) securely so that the configurations of both the cable and the connector match. Keep the dust protection cap and always reattach the cap when not using the connector to protect against dust intrusion.



**Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.**

### Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R6 (size AA) batteries with **+** and **-** aligned correctly.

When using the remote control, point it at the remote sensor **R** on the unit.

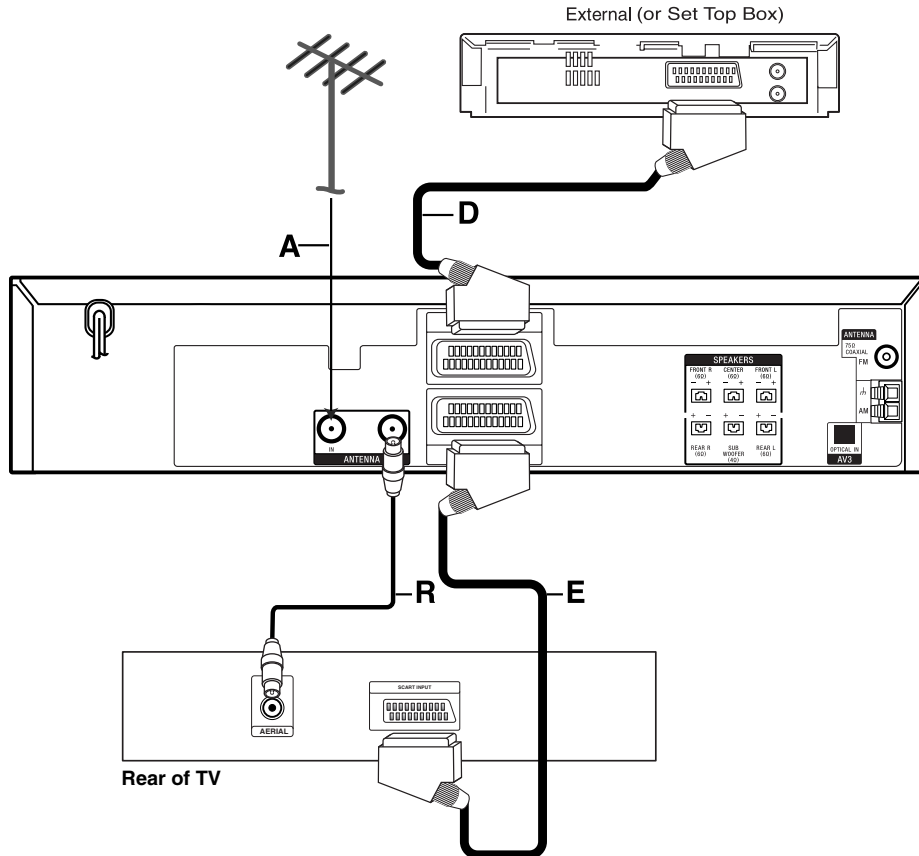


**Caution**  
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

## Connections

### TV and External (or Set Top Box) Connections

Make one of the following connections, depending on the capabilities of your existing equipment.



#### Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the DVD/VCR Receiver. Use one of the connections described below.
- Please refer to the manuals of your TV, VIDEO, Stereo System or other devices as necessary to make the best connections.



#### Caution

- Make sure the DVD/VCR Receiver is connected directly to the TV. Select the correct AV input on your TV.
- Do not connect your DVD/VCR Receiver to TV via your VIDEO. The DVD image could be distorted by the copy protection system.

#### Basic connections (AV)

- 1** Connect the **EURO AV1 (TO TV)** on the rear panel of the DVD/VCR Receiver to the scart input socket on the TV using a SCART lead (**E**).
- 2** You can connect such a Satellite, Cable or Digital set top box to the DVD/VCR Receiver (**D**).

#### Basic connection (RF)

- 1** Connect the aerial cable (**A**) from your indoor/ outdoor aerial to **ANTENA IN** jack on the rear panel of DVD/VCR Receiver.
- 2** Connect the supplied RF cable (**R**) from the **ANTENA OUT** jack on the rear panel of DVD/VCR Receiver to your television's Aerial Input.

#### Notes

When you connect the DVD/VCR Receiver to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.

## Connections (Continued)

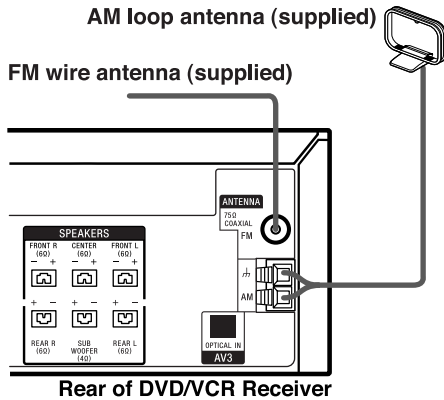
### Radio Aerial Connections

Connect the supplied FM/AM antennas for radio listening.

- 1 Connect the AM loop antenna to the AM antenna connectors.
- 2 Connect the FM wire antenna to the FM antenna connectors.

#### Notes

- To prevent noise pickup, keep the AM loop antenna away from the DVD/VCR Receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.



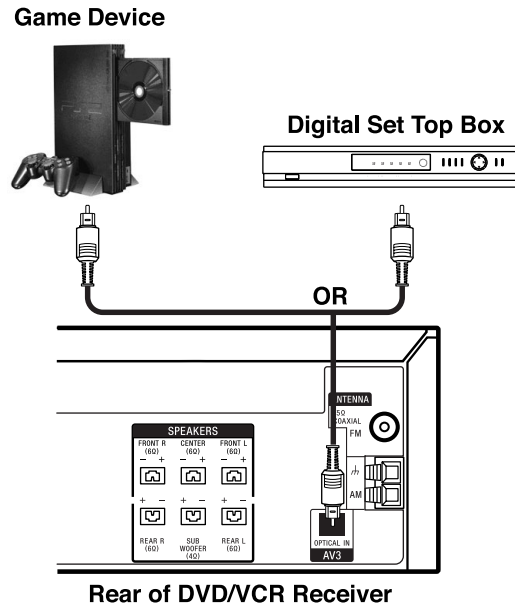
### Digital Device Connections

Connect the OPTICAL IN jacks on the DVD/VCR Receiver to the digital audio out (optical) jacks on your digital device (Game device, Digital Set Top Box, etc.), using optional optical audio cable.

To select source of DVD/VCR Receiver to OPTICAL IN, press INPUT SELECT repeatedly on the remote control until "AV3 OPT" appears in the display window.

#### Notes

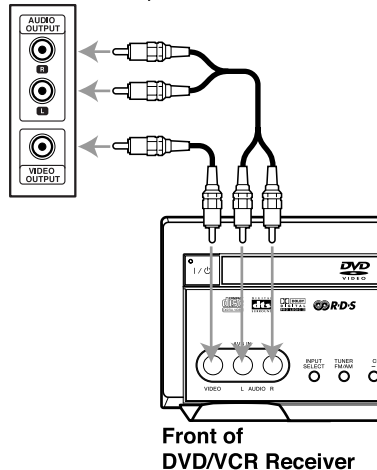
- If the audio format of the digital output does not match the capabilities of your DVD/VCR Receiver, the DVD/VCR Receiver will produce a strong, distorted sound or no sound at all.
- The Optical input function is available only when the other unit's Sampling Frequency is 32 - 48kHz.



### Accessory Audio/Video (A/V) Connections to DVD/VCR Receiver

Connect the **AV3 IN** jacks on the DVD/VCR Receiver to the audio/video out jacks on your accessory component, using optional audio/video cables.

#### Jack Panel of Accessory Component (VCR, Camcorder, etc.)



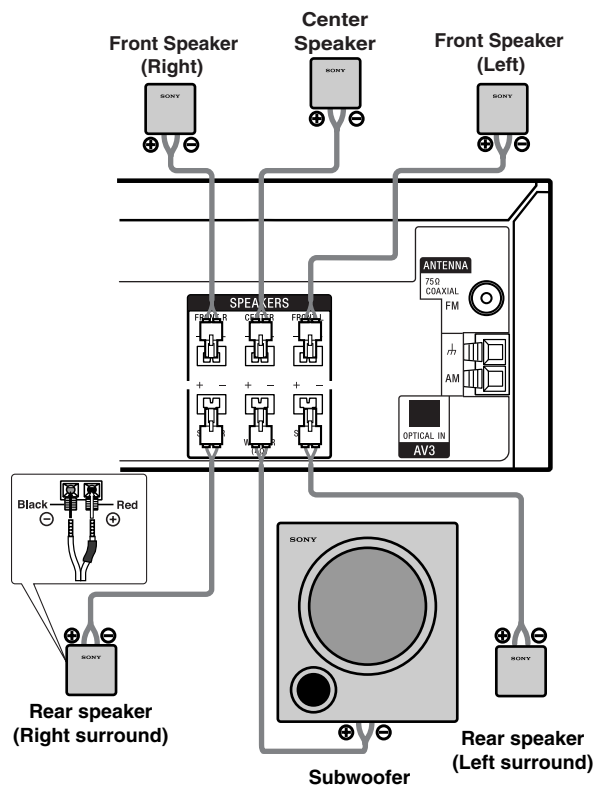
## Connections (Continued)

### Speaker System Connections

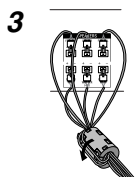
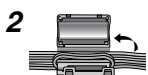
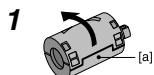
Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).

#### Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: ⊕ to ⊕ and ⊖ to ⊖. If the cords are reversed, the sound will be distorted and lack bass.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive volume output to the speakers.
- Do not disassemble the front covers of supplied speakers.



#### About Ferrite Core



Be sure to attach the ferrite core to the speaker cables (for connecting to this unit). This ferrite core can reduce noises.

This ferrite core can reduce noises.

#### How to attach the ferrite core.

- 1 Push the stopper [a] of the ferrite core to open.
- 2 Wind the Center and Subwoofer Speaker cables once on the ferrite core. Pass the others straight on the ferrite core.
- 3 Close the ferrite core until it clicks.

### Speaker Positioning

For a normal setup use 6 speakers (2 front speakers, center speaker, 2 rear speakers and subwoofer).

#### • Front Speakers

Based on your listening position, set up the speakers at equal distance. And by hearing position, set up an interval between speakers of 45 degree.

#### • Center Speaker

It is ideal that the center speakers and front speakers are same height. But normally place it above or below the television as shown below.

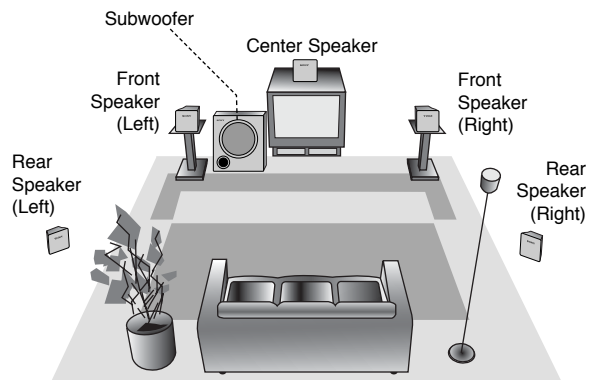
#### • Rear Speakers

Place the rear surround speakers to the left and right behind the primary listening area. These speakers recreate sound motion and atmosphere required for surround playback. For best results, do not install the rear speakers too far behind the listening position, install them at or above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound.

In the case of a smaller room size, if the audience is near to the rear wall set the rear speakers opposite each other, and set the rear speakers 60 - 90 cm above the listener's ears.

#### • Subwoofer

This can be placed in any front position.



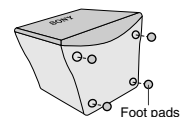
Speaker Positioning Example

#### Note

Speaker stand is optional.

#### Attaching the foot pads

To prevent speaker vibration or movement while listening, attach the supplied foot pads to the speaker, as shown.

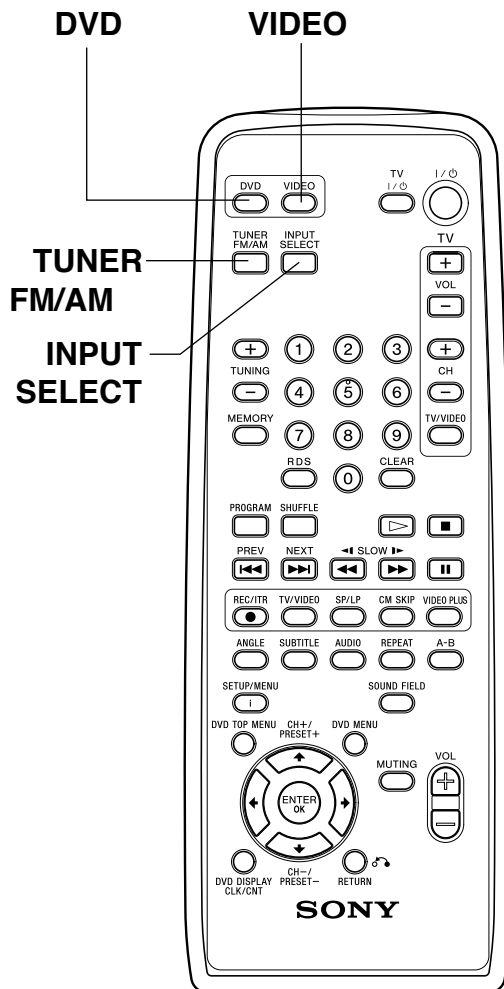


#### Attaching the color labels

Attach the color labels onto the rear panel of the speakers before connecting the speakers.



## Selecting the Input/Output Source



Follow these guidelines to select and switch among the various DVD/VCR Receiver input and output sources:

- **DVD**

- To view output from the DVD deck:**

- Press DVD on the remote or DVD/VIDEO on the front panel until the DVD indicator on the front panel lights and output from the DVD deck is viewed on the TV screen.

- **VIDEO**

- To view output from the VIDEO deck:**

- Press VIDEO on the remote or DVD/VIDEO on the front panel until the VIDEO indicator on the front panel lights and output from the VIDEO deck is viewed on the TV screen.

- **TUNER FM/AM**

- To listen to AM/FM radio broadcasts:**

- Press TUNER FM/AM on the remote to toggle between AM and FM radio. Press TUNER FM/AM to toggle between AM and FM radio. The selected frequency appears in the display window.

- **INPUT SELECT**

- To listen and view to an audio source connected to the EURO AV1:**

- Press INPUT SELECT on the remote control once. The "AV1" appears in the display window and TV screen. Audio and Video will come from an external source connected to the EURO AV1 (for rear panel).

- To listen and view to an audio source connected to the EURO AV2:**

- Press INPUT SELECT on the remote control a second time. The "AV2" appears in the display window and TV screen. Audio and Video will come from an external source connected to the EURO AV2 (for rear panel).

- To listen to an audio source connected to the OPTICAL IN jack :**

- Press INPUT SELECT on the remote control a third time. The "AV3 OPT" appears in the display window. Audio will come from an external source connected to the OPTICAL IN jack (for rear panel).

- To listen and view to an audio source connected to the AUDIO jack of AV3 IN with video from AV3:**

- Press INPUT SELECT on the remote control a fourth time. The "AV3" appears in the display window and TV screen. Audio and Video will come from an external source connected to the AUDIO/VIDEO jacks of AV3 IN (for front panel).


## Mini Glossary

### Mini Glossary for Audio Stream and Surround mode




Allows you to enjoy 5.1 (or 6) discrete channels of high quality digital audio from DTS programme sources such as discs, DVD and compact discs, etc. bearing the trademark. DTS Digital Surround delivers up to 6 channels of transparent audio (which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field. The term DTS is a trademark of DTS Technology, LLC. Manufactured under license from DTS Technology, LLC.

#### Dolby Digital

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital programme source. If you play DVDs with “” mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range.

#### Dolby Pro Logic

Use this mode when playing movie or Dolby Digital 2 channel which carries the “” mark. This mode provides the effect of being in a movie theatre or live concert house—an effect with an intensity which can only be obtained through DOLBY PRO LOGIC SURROUND. The effect of the front/back/left/right movement of the sound image, as well as the sense of fixed position in the sound image, is much clearer and more dynamic than before.

#### Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

##### MOVIE mode:

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

##### MUSIC mode:

The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space. The Music mode includes controls that allow the sound to be tailored to individual listening tastes.

##### MATRIX mode:

The Matrix mode is the same as the Music mode except that the directional enhancement logic is turned off. It may be used to enhance mono signals by making them seem “larger.” The Matrix mode may also find use in auto systems, where the fluctuations from poor FM stereo reception can otherwise cause disturbing surround signals from a logic decoder. The ultimate “cure” for poor FM stereo reception may be simply to force the audio to mono.

#### 3D SURROUND

This unit can produce a 3D Surround effect, using 3D Surround Sound technology, which simulates multi-channel audio playback from two conventional stereo speakers instead of the five or more speakers normally required to listen to multi-channel audio from a home theatre. This feature works with DVD discs encoded with Dolby Pro Logic and Dolby Digital audio tracks.

#### BYPASS

Software with multichannel surround audio signals is played according to the way it was recorded.

### Sound Mode

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the programme you want to listen to.

Press **SOUND FIELD** repeatedly until the sound mode you want appears in the display window as below.

Each time you press **SOUND FIELD** button, the sound mode is changed in the following order;




PRO LOGIC → PL2 MOVIE → PL2 MUSIC → PL2 MATRIX → 3D SURROUND → BYPASS

#### When DVD is inserted.



You can change the sound mode of DVD (Dolby Digital, DTS, PRO LOGIC, etc) by pressing the **AUDIO** button on the remote during playback.

Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used.

Each time you press **AUDIO** button, the sound mode of DVD is changed as the following order;

 →  → PCM → 

#### For your reference

- The DVD/VCR Receiver memorizes the last mode settings for each source individually.
- You can identify the encoding format of programme software by looking at its packaging.
  - Dolby Digital discs are labeled with the  logo.
  - Dolby Surround encoded programs are labeled with the  logo.
  - DTS Digital Surround discs are marked with DTS.

#### Note

When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).

### Volume Control

You can adjust the volume by rotating VOLUME on the front panel or by pressing VOL (+/–) on the remote control repeatedly.

### Muting

Press **MUTING** to mute your unit.

You can mute your unit in order, for example, to answer the telephone, “MUTING” indicator in the display window. To exit mute mode, press **MUTING** again.

## VIDEO Operation Setup

### Video channel set

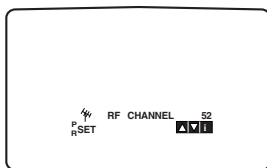
Video channel (RF output channel) is the channel on which your TV receives picture and sound signals from the DVD/VCR Receiver through the RF cable.

If you have used a **SCART** lead you will not have to tune your TV, simply select the **AV** channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.

Perform the following steps only if interference appears in the TV picture after you have moved to a different area or a new station has started broadcasting in your area, or if you change the connection from RF connection to AV connection, or vice versa.

- 1 Turn on DVD/VCR Receiver and TV.**
- 2 Set the vacant position 52 on your TV.**
- 3 Press I / ⏻ on the remote control to enter the standby mode.**
- 4 Press and hold CH/PRESET + or – on the DVD/VCR Receiver for more than 4 seconds.**

RF 52 will appear in the DVD/VCR Receiver display.



The following picture will be displayed on the TV screen.

If the picture is snowy, move to step 5.

If the picture is clean, press I / ⏻ on the DVD/VCR Receiver to store the RF channel. The video channel is now set.

- 5 Press CH/PRESET + or – on the DVD/VCR Receiver to set the video channel to a vacant position between 22 and 68 which is not occupied by any local station in your area.**

You can also set it to "OFF" if there is any interference when your TV is connected to the DVD/VCR Receiver.

#### Note

The RF channel will not change until step 6 has been executed.

- 6 Press I / ⏻ to store the new RF channel into the DVD/VCR Receiver.**
- 7 Press I / ⏻ to bring the DVD/VCR Receiver from standby to on and follow your TV manufacturers tuning instruction manual to tune a new channel to the DVD/VCR Receiver.**

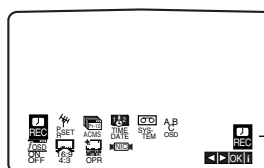
### How to use the main menu

This DVD/VCR Receiver can easily be programmed by using the menus displayed on screen.

The menus are controlled from the Remote Control Handset.

- 1 Switch on your TV set and DVD/VCR Receiver by pressing I / ⏻.**

- 2 Press MENU (i).**  
The main menu will appear on the TV screen.



- **REC**  
Timer recording setting (see pages 27).
- **PR SET**  
Manual tuning setting (see page 16-17).
- **ACMS**  
ACMS (Automatic Channel Memory System) (see page 16).
- **TIME DATE**  
Date and clock setting (see page 18).
- **SYSTEM**  
To set the Colour TV System (see page 19).
- **ABC OSD**  
To change the language setting for OSD. You can select the language from English, German, French, Italian, Spanish, Dutch, and Portuguese.
- **fOSD ON/OFF**  
To display the operational mode of your DVD/VCR Receiver (see page 30).
- **16:9/4:3**  
To select the aspect ratio of your TV (see page 28).
- **OPR**  
To improve the playback picture (see page 24).
- **NIC**  
To activate or deactivate the NICAM digital sound (see page 28).

- 3 Press ◀ or ▶ to select the desired menu.**

- 4 Press ENTER/OK and press ↑ or ↓ to select.**

- 5 Press MENU (i) to return to a TV picture.**

#### Note

The VIDEO main menu will appear incorrectly when NTSC video source is inputted to the DVD/VCR Receiver.

## VIDEO Operation Setup (Continued)

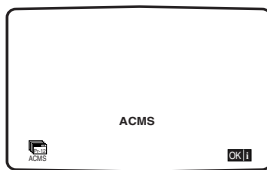
### Tuning in TV Stations Automatically

Should you wish to perform the **Automatic Channel Memory System (ACMS)** again please follow the guidance given on this page. You may tune up to 88 TV stations into your DVD/VCR Receiver.

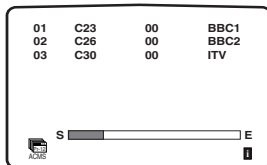
**1** Press **I** / **⏻** to turn on your DVD/VCR Receiver.

**2** Press **MENU** (i).  
The main menu will appear on the TV screen.

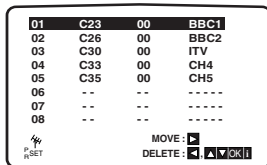
**3** Press **←** or **→** to select **ACMS** and press **ENTER/OK**



**4** Press **ENTER/OK** again to start the automatic tuning process.



**5** While automatic tuning is taking place the time and date will set automatically. If - : - : - appears in the DVD/VCR Receiver display it means that the broadcast signal is weak and the clock was not set. Please turn to **TIME DATE** section of this book on page 18.



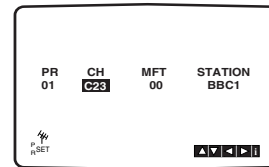
**6** Press **MENU** (i) to remove the menus from the TV screen.

### Tuning in TV Stations Manually

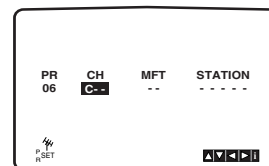
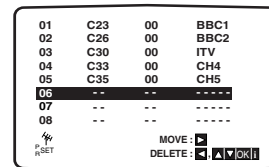
In certain areas of the country broadcast signals may be too weak for your DVD/VCR Receiver's automatic tuning process to find or assign TV stations correctly. You must tune in these weaker broadcast stations manually in order for your DVD/VCR Receiver to store them.

**1** Press **MENU** (i).  
The main menu will appear on the TV screen.

**2** Press **←** or **→** to select **PR SET** and press **ENTER/OK**.

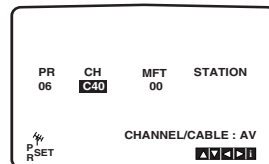


**3** Press **MENU** (i) and press **↑** or **↓** to select the programme number that you want to tune (for example, PR 06). Press **ENTER/OK**



**4** Press **↑** or **↓** to find out the station that you want to tune and press **→**.

If the frequency number is known, enter the channel number of station that you want to tune with the numerical buttons.

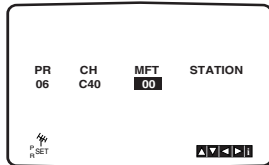




## VIDEO Operation Setup (Continued)

- 5** Searching will stop when it locates a station. If the station transmits PDC, the station name will be added automatically.

Control the fine tuning of the station by pressing **↑** or **↓**.

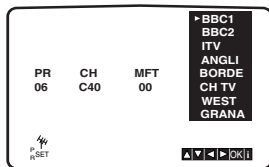


- 6** Press **→** to select STATION and press ENTER/OK

The TV station name list will appear.

Press **↑** or **↓** to select a station name from the list and press ENTER/OK to select it.

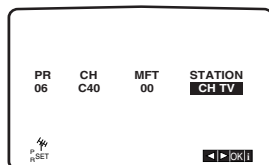
If your station name isn't on the list do not press ENTER/OK, but go to stage 7.



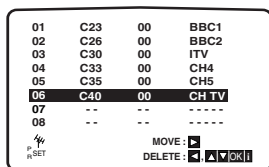
- 7** You can change a TV station name manually rather than using the "standard" names.

Press **→** and press **↑** or **↓** to select letters and numbers for the new station name.

Press **←** or **→** to move back and forth between characters. Press ENTER/OK



- 8** Press MENU (i), confirm the station placement.



- 9** Press MENU (i) to remove the menus from the TV screen.

Your new TV station has now been tuned into your DVD/VCR Receiver.

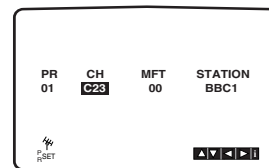
If you wish to manually tune other stations repeat stages 1 - 9.

## Changing the order of TV Stations

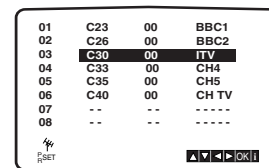
After tuning TV stations into your DVD/VCR Receiver you may wish to **change** the order in which they are stored without having to retune them. The instructions given on this page will show you how you can simply move them into your desired order.

- 1** Press MENU (i).  
The main menu will appear on the TV screen.

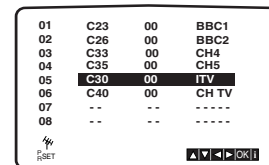
Press **←** or **→** to select PR SET and press ENTER/OK



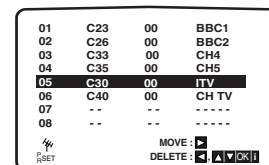
- 2** Press MENU (i).  
Press **↑** or **↓** to select the programme number you want to move (for example, PR 03).  
Press **→**.



- 3** Press **↑** or **↓** to select the programme number you want to move to (for example, PR 05).



- 4** Press ENTER/OK  
The selected programme will be moved to the new programme number.



- 5** Press MENU (i) to remove the menus from the TV screen.

If you wish to move other TV stations repeat stages 1 - 4.

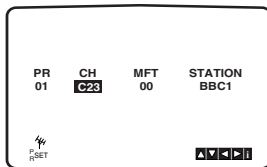
## VIDEO Operation Setup (Continued)

### Deleting TV Stations

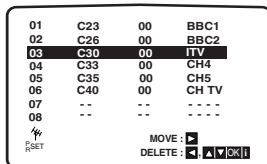
After tuning TV stations into your DVD/VCR Receiver you may wish to **delete** a station. The instructions given on this page will show you how to easily delete any unwanted TV stations.

- 1 Press MENU (i).**  
The main menu will appear on the TV screen.

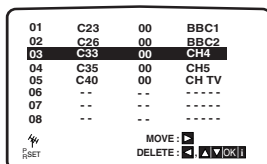
Press **←** or **→** to select PR SET and press ENTER/OK



- 2 Press MENU (i).**  
Press **↑** or **↓** to select the programme number you want to delete (for example, PR 03).



- 3 Press ←.**  
After a short while, the selected station will be deleted.



- 4 Press MENU (i) to remove the menus from the TV screen.**

If you wish to delete other TV stations repeat stages 2 - 3.

#### How to select Stored TV stations:

Stored TV stations can be selected in either of two ways.

Press CH+ or CH- to select different stations that are tuned into your DVD/VCR Receiver.

You may also directly select stations using the **numerical buttons** on the remote control.

### Setting the Clock Manually

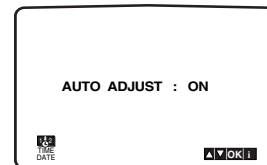
The clock in your DVD/VCR Receiver controls time, day and date settings for your DVD/VCR Receiver.

**For VIDEO Plus+ system to work correctly the correct time and date must be set.** The clock is set automatically during **ACMS** (Automatic Channel Memory System) when your DVD/VCR Receiver detects a channel that broadcasts a Teletext signal.

If the broadcast signal is weak the clock will not be set and will require setting manually.

- 1 Press MENU (i).**  
Press **←** or **→** to select TIME DATE and press ENTER/OK

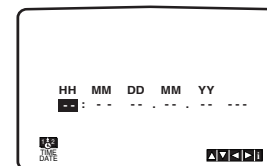
The auto adjust mode can be set to "OFF" by pressing **↑** or **↓** if you want to set the time manually.



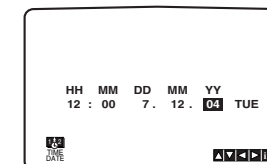
- 2 Press ENTER/OK**  
Use the numerical buttons or press **↑/↓** or **←/→** on the remote control to alter the HOURS, MINUTES, DAY, MONTH and YEAR.

Please note your DVD/VCR Receiver uses a 24-hour clock. e.g. 1pm will be displayed as 13:00.

The day of the week will appear automatically when you enter the year.



- 3 If you make a mistake, press ← or → and enter the correct details.**



- 4 Press MENU (i) to remove the menus from the TV screen.**

Your new clock settings are stored and will appear on your DVD/VCR Receiver's Display.

## VIDEO Operation Setup (Continued)

### To set the colour system

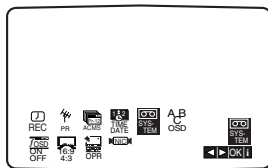
Your DVD/VCR Receiver is equipped with dual colour standard, you can play back a tape in PAL and MESE-CAM.

During playback your DVD/VCR receiver detects the colour system automatically.

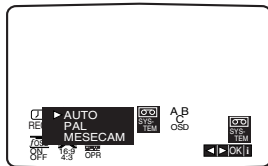
If there is any colour problem please select the colour system manually.

**1 Press MENU (i).**  
The main menu will appear on the TV screen.

**2 Press ← or → to select the SYSTEM.**



**3 Press ENTER/OK and press ↑ or ↓ to select according to the COLOUR system used.**



#### **AUTO:**

Allows PAL or MESECAM signals to be distinguished automatically.

#### **PAL:**

Use when receiving PAL signals or use when playing back a tape recorded in PAL system.


#### **MESECAM:**

Use when receiving MESECAM signals or use when playing back a tape recorded in MESECAM system

**4 Press MENU (i) to remove the menus from the TV screen.**

# DVD Operation Setup

## General Explanation

This manual gives basic instructions for operating the DVD/VCR Receiver. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol  appears on the TV screen, indicating that the operation is not permitted by the DVD/VCR Receiver or is not available on the disc.









## On-Screen Display

General playback status can be displayed on the TV screen. Some items can be changed on the menu.

### On-screen display operation

- 1** Press **DVD DISPLAY** during playback.
- 2** Press **▲/▼** to select an item.  
The selected item will be highlighted.
- 3** Press **←/→** to change the setting of an item.  
The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press **ENTER/OK** to execute the setting.








### Temporary Feedback Field Icons

-  Repeat Title
-  Repeat Chapter
-  Repeat Track (non-PBC Video CDs only)
-  Repeat All Tracks (non-PBC Video CDs only)
-  Repeat A-B
-  Repeat Off
-  Resume play from this point
-  Action prohibited or not available





### Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

### DVD

Items	Function (Press <b>▲/▼</b> to select desired item)	Selection Method
Title Number	 1 / 3 Shows the current title number and total number of titles, and skips to the desired title number.	<b>← / →</b> , or Numbers, <b>ENTER/OK</b>
Chapter Number	 1 / 12 Shows the current chapter number and total number of chapters, and skips to the desired chapter number.	<b>← / →</b> , <b>⏮ / ⏭</b> or Numbers, <b>ENTER/OK</b>
Time search	 0:20:09 Shows the elapsed playing time, and searches the point directly from the elapsed time.	Numbers, <b>ENTER/OK</b>
Audio language and Digital Audio Output mode	 1 ENG □□□□ 5.1 CH Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting.	<b>← / →</b> , or <b>AUDIO</b>
Subtitle language	 OFF Shows the current subtitles language, and changes the setting.	<b>← / →</b> , or <b>SUBTITLE</b>
Angle	 1 / 1 Shows the current angle number and total number of angles, and changes the angle number.	<b>← / →</b> , or <b>ANGLE</b>
Sound	 BYPASS Shows the current sound mode, and changes the setting.	<b>← / →</b> , or <b>SOUND FIELD</b>

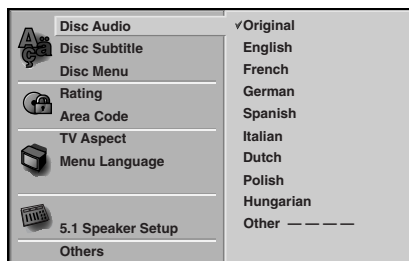
### VCD2.0 VCD1.1

Items	Function (Press <b>▲/▼</b> to select desired item)	Selection Method
Track Number	 1 / 3 Shows the current track number, total number of tracks and PBC On mode, and skips to the desired track number.	<b>← / →</b> , or Numbers, <b>ENTER/OK</b>
Time	 0:20:09 Shows the elapsed playing time (Display only)	–
Audio Channel	 ST Shows the audio channel, and changes the audio channel.	<b>← / →</b> , or <b>AUDIO</b>
Sound	 BYPASS Shows the current sound mode, and changes the setting.	<b>← / →</b> , or <b>SOUND FIELD</b>

## DVD Operation Setup (Continued)

### Initial Settings

You can set your personal preferences on the DVD function mode.



### Menu Language

Select a language for the Setup menu. This is the menu you see when you press SETUP/MENU.



### General Operation

- 1 Press SETUP/MENU.**  
The Setup menu appears.
- 2 Use  $\uparrow/\downarrow$  to select the desired option.**  
The screen will show the current setting for the selected option, as well as alternate setting(s).
- 3 While the desired option is selected, press  $\rightarrow$ , then  $\uparrow/\downarrow$  to select the desired setting.**
- 4 Press ENTER/OK to confirm your selection.**  
Some options require additional steps.
- 5 Press SETUP/MENU, RETURN, or  $\triangleright$  (PLAY) to exit the setup menu.**

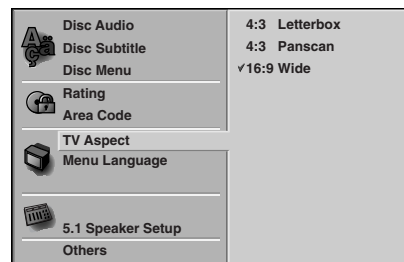
### Picture

#### TV Aspect **DVD**

**4:3 Letterbox:** Select when a standard 4:3 TV is connected. Displays pictures with masking bars above and below the picture.

**4:3 Panscan:** Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.

**16:9 Wide:** Select when a 16:9 wide TV is connected.



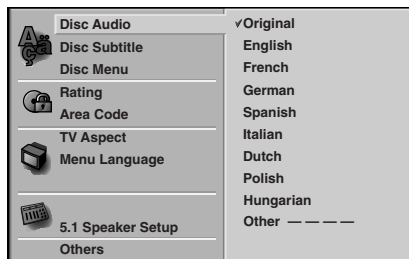
### Language

#### Disc Language **DVD**

Select a language for the disc's Menu, Audio, and Subtitle features.

**Original :** The original language set for the disc is selected.

**Other :** To select another language, use number buttons to enter the corresponding 4-digit number according to the language code list on page 42. If you enter the wrong language code, press CLEAR.



#### Note

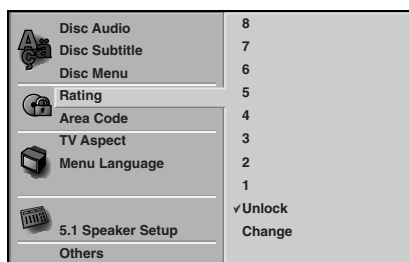
Disc Language selection may not work for some DVDs.

## DVD Operation Setup (Continued)

### Parental Control

#### Rating **DVD**

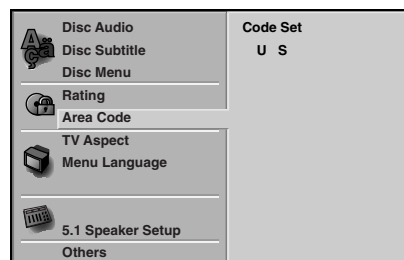
Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



- 1** Select **Rating** on the Setup menu using **▲/▼** buttons on the setup menu.
- 2** While **Rating** is selected, press **➡**.
- 3** When you have not entered a password yet. Enter a 4-digit password using the number buttons to create a personal 4-digit security password, then press ENTER/OK. Enter the 4-digit password again and press ENTER/OK to verify.  
**When you have already entered a password;** Enter a 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press ENTER/OK.  
  
If you make a mistake before pressing ENTER/OK, press CLEAR and enter 4-digit security password again.
- 4** Select a rating from 1 to 8 using **▲/▼** buttons. **One (1) has the least playback restrictions. Eight (8) has the most playback restrictions. Unlock:** If you select Unlock, Parental Control is not active. The disc will play in full.  
**Ratings 1 to 8:** Some discs contain scenes not suitable for children. If you set a rating for the DVD, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.
- 5** Press ENTER/OK to confirm your rating selection, then press SETUP/MENU to exit the menu.

#### Area Code **DVD**

Enter the code of an area whose standards were used to rate the DVD video disc, referring to the list (See "Area Code List", page 43.).



- 1** Select the **Area Code** option using the **▲/▼** buttons on the setup menu.
- 2** While **Area Code** is selected, press **➡**.
- 3** Follow step 3 of "Rating" on left.
- 4** Select the first character using the **▲/▼** buttons.
- 5** Press **➡** to shift to second character and select the second character using **▲/▼** buttons.
- 6** Press ENTER/OK to confirm your Area Code selection, then press SETUP/MENU to exit the menu.

#### Note

Confirmation of the 4-digit password is necessary when the password is changed (see Changing the 4-digit password below ).

#### Changing the 4-digit password

- 1 Follow Steps 1-2 as shown above to the left (Rating).
- 2 Enter the old password, then press ENTER/OK.
- 3 Select Change using **▲/▼** buttons then press ENTER/OK.
- 4 Enter the new 4-digit password, then press ENTER/OK.
- 5 Enter exactly the same password a second time and verify by pressing ENTER/OK.
- 6 Press SETUP/MENU to exit the menu.

#### If you forget your 4-digit password

If you forget your password, to clear the current password follow the procedure below.

- 1 Press SETUP/MENU to display the setup menu.
- 2 Enter the 6-digit number "210499".  
The 4-digit password is cleared.
- 3 Enter a new password as shown above to the left (Rating).

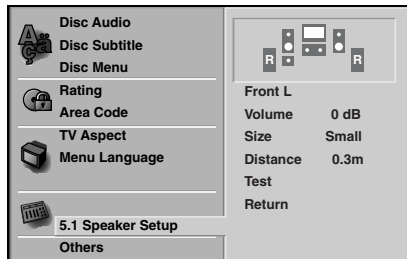
## DVD Operation Setup (Continued)

### Speaker Setup

#### 5.1 Speaker settings **DVD**

Select speaker settings, including volume balance and distance, or test the speaker settings.

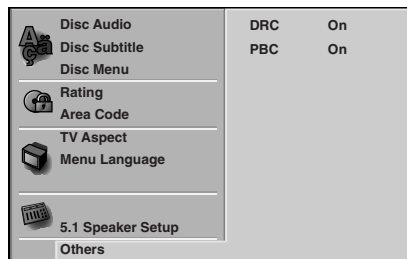
Speaker settings are only active on the Analog Multi-Channel Output. (See "Speaker Setup", page 38.)



### Others (DRC/PBC)

The DRC and PBC settings can be changed.

- Press  $\uparrow/\downarrow$  to select the desired item and press ENTER/OK. The setting of the selected item is changed between On and Off.



#### Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

#### Playback Control (PBC)

- On:** Video CDs with PBC are played according to the PBC.  
**Off:** Video CDs with PBC are played the same way as Audio CDs.

## VIDEO Operation

### Playing a tape

You will only be able to load and eject video cassettes when your DVD/VCR Receiver is plugged into the mains.

Your DVD/VCR Receiver may also play back recordings from NTSC tapes (on PAL TV).

#### Getting a better picture

When a cassette is inserted and playback started, the ATR (automatic tracking) function works to get the best possible picture automatically (ATR appears in the display window). If the quality of the recording is poor, repeatedly press **CH/PRESET (+/-)** to manually adjust the tracking until any distortions have been removed.

#### 1 Make sure that you have correctly connected your DVD/VCR Receiver as described earlier in this book.

Turn on your TV.

Press **I / ⏻** to turn on your DVD/VCR Receiver.

Insert the video cassette into your DVD/VCR Receiver.

The video cassette should have the window side facing up and the arrow facing away from you.

#### 2 Press **▷ (PLAY)** to start playing your tape.

If you load a video cassette which has had its record protection tab removed, playback of the cassette will start automatically.

#### AUTO TRACKING

Your DVD/VCR Receiver will automatically adjust the tracking to give the best picture quality.

#### 3 Press **⏸ (PAUSE)** to still a picture. Press **⏸ (PAUSE)** repeatedly to advance the tape frame by frame.

If you press **SLOW (▶▶, ▶)**, the picture will be slowed down at about 1/19 times the normal playback.

Tapes can be paused for up to 5 minutes. After 5 minutes your DVD/VCR Receiver will stop the tape to prevent from damage to the tape or your DVD/VCR Receiver.

Still picture quality can be improved slightly by pressing **CH/PRESET (+/-)** on the remote control.

#### 4 Press **▷ (PLAY)** to continue playing your tape.

#### Picture search:

During playback press either **SLOW (◀◀/◀I or ▶▶/I▶)** buttons. This will enable you to rapidly wind the tape (7 times normal playback) while seeing where you are on the tape.

#### Logic search:

During fast forward or rewind press and hold **SLOW (◀◀/◀I or ▶▶/I▶)** button. The picture will be played back at 7 times normal playback speed.

#### 5 During playback or still picture press **◀** or **▶**. You can reach the following playback speeds. (-7xplay, -3xplay, -play, still, 1/19 slow, play, 2xplay, 7xplay)

To switch off the slow motion and shuttle, press the desired function.

During slow motion and shuttle, the noise bars may appear on the picture according to the status of tape.

If distortions can be seen in the picture, reduce them with **CH/PRESET (+/-)** on the remote control.

#### 6 Press **■ (STOP)** to end playback. Press **▲ VIDEO**.

If the end of the tape is reached, your DVD/VCR Receiver will stop playback automatically, rewind, stop at the top of the tape, eject the tape, and it will turn itself off.

#### CM (Commercial Message) Skip:

When playing back tapes, this feature lets you skip through commercial breaks by fast-forwarding, and then resume normal playback.

While tape is playing press **CM SKIP** on the remote control to skip commercial (or other programme material).

Repeatedly press **CM SKIP** to skip:

The tape will fast forward picture search through 30 seconds of recording for each press of the button.

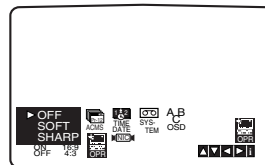
1 Press	30 seconds
2 Presses	60 seconds
3 Presses	90 seconds
4 Presses	120 seconds
5 Presses	150 seconds
6 Presses	180 seconds

#### OPR (Optimum Picture Response):

This feature automatically improves playback picture quality by adjusting your DVD/VCR Receiver to the condition of the tape.

#### 1 Press **MENU (i)**.

#### 2 Press **◀** or **▶** to select OPR and press **ENTER/OK**



#### 3 Press **▲** or **▼** repeatedly to select: OFF, SOFT or SHARP.

Please note you may set OPR only when playing back a tape.

#### 4 Press **MENU (i)** to remove the menus from the TV screen.



## VIDEO Operation (Continued)

The DVD/VCR Receiver allows you to make recordings using a variety of simple methods:

**Instant Timer Recording (ITR):** Starts recording immediately for a set period of time or until the video cassette runs out.

**VIDEO Plus+ System Recording** greatly simplifies entering the date, channel, start and end times of a Timer Recording.

**Timer Recording:** You may record at a later time (up to 1 month from the present). Up to 7 of these automatic recordings may be set.

The DVD/VCR Receiver incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. Please note there will be a slight loss in picture and sound quality when using LP.

### Instant Timer Recording (ITR)

**1 Make sure that you have correctly connected your DVD/VCR Receiver as described earlier in this book.**

Press **I / ⏻** to turn on your DVD/VCR Receiver.

**2 Insert a video cassette with protection tab into your DVD/VCR Receiver.**

The video cassette should have the window side facing up and the arrow facing away from you.

**3 Press CH (+/-) to select the programme number you wish to record.**

You may also directly select programme numbers using the **numerical buttons** on the remote control.

**4 If you wish to record directly from either of the SCART sockets or AV3 sockets, repeatedly press INPUT SELECT until the socket you wish to record from is displayed.**

**AV 1** for recording from EURO AV1 socket on the rear of your DVD/VCR Receiver.

**AV 2** for recording from EURO AV2 EXTERNAL socket on the rear of your DVD/VCR Receiver.

**AV 3** for recording from AV3 sockets (analog audio) on the front of your DVD/VCR Receiver.

**5 Press SP/LP if you wish to record in Long Play or Standard Play.**

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.

**6 Press REC/ITR (●) to start recording.**

RECORD will appear on the TV screen.

Press **REC/ITR (●)** several times. Each successive press will increase the record time by 30 minutes until you reach a maximum of 9 hours.

**7 Press II (PAUSE) to avoid recording unwanted scenes.**

Press **II (PAUSE)** to continue recording.

If you press **II (PAUSE)** during ITR, the DVD/VCR Receiver will enter the record pause mode and ITR is cancelled.

Tapes can be paused for up to 5 minutes; RECP will be displayed when a tape is paused. After 5 minutes your DVD/VCR Receiver will stop recording to prevent damaging the tape or your DVD/VCR Receiver.

**8 Press ■ (STOP) to end recording.**

Press **▲ VIDEO**.

EJECT will appear on the TV screen for a few seconds.

#### Notes

- If you do not wish to record on a tape (this can happen quite easily by accident!) remove the protection tab on the back edge of the video cassette.
- It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.
- Remember you can record one programme while watching another by starting your instant recording, pressing **TV/VIDEO** to disappear **VIDEO** indicator in the display window and then selecting a different channel on your TV.

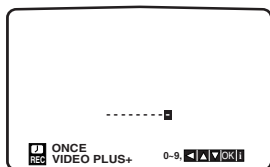
## VIDEO Operation (Continued)

### VIDEO Plus+® System recording

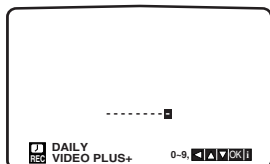
VIDEO Plus+ System greatly simplifies entering the date, channel, start and end times of a Timer recording by simply entering a PlusCode programming number. The PlusCode programming numbers are published in most TV guide magazines; they can vary from one to nine numbers in length.

- 1 Make sure that TV channels have been tuned and stored.**  
Insert a video cassette with protection tab into your DVD/VIDEO receiver.  
The video cassette should have the window side facing up and the arrow facing away from you.

- 2 Press VIDEO PLUS.**

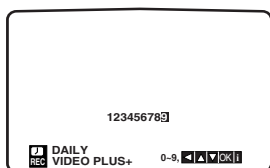


- 3 Press ▲ or ▼ to select the recording type.**  
**ONCE:** To record once.  
**WEEKLY:** To record at the same time every week.  
**DAILY:** To record every day (except Saturday and Sunday) at the same time.



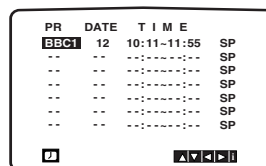
- 4 Press the numerical buttons to enter the PlusCode programming number of the TV programme that you wish to record.**

If you make a mistake press ◀ then enter the revised number.



- 5 Press ENTER (OK).**  
The recording details of your programme will be displayed.

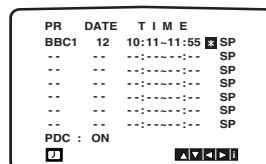
If **PLEASE CHECK** is displayed it means that you have entered the wrong PlusCode programming number, entered the PlusCode programming number incorrectly or the PlusCode programming number has been printed incorrectly in the TV guide. If “-” is displayed in “PR”, you have to enter the programme number of the station you want to record from.



If you want to record from either of the SCART sockets or AV3 on the front, repeatedly press **INPUT SELECT** for the correct display (AV1, AV2 or AV3).

- 6 Press ► and press ▲ or ▼ to switch PDC on or off.**

If you are recording from stations that do not broadcast PDC switch PDC off! (\* symbol will disappear on the TV screen). Remember only certain stations transmit PDC.

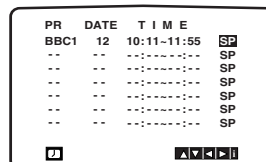


- 7 Press ► to select the recording speed and press ▲ or ▼ if you wish to record in SP, IP or LP.**

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.

- 8 Check that the timer event details are correct. Press MENU (i) to save your settings.**

If **PLEASE CHECK** is displayed, you have entered incorrect information and will need to re-enter the data.



- 9 Press MENU (i) to remove the menus.**

If you want to make other VIDEO Plus+ system recordings repeat stages 2 - 8.

- 10 Press I / ⏻ to switch your unit to Standby.**

TIMER will appear in the DVD/VIDEO receiver's display while your DVD/VIDEO receiver waits to make the recording.

If the DVD/VIDEO receiver is DVD mode, even with the DVD/VIDEO receiver is power on, it will record any timer programme. You can clear the recording by pressing STOP during programmed recording.

### Intelligent LP Recording

When you set the tape speed to “IP”, the DVD/VIDEO receiver automatically switches to LP mode to allow complete recording if there is not enough tape to record the entire programme while timer- recording in SP mode.

**It is not possible to set the tape speed to “IP” with “PDC” set to “ON”.**

## VIDEO Operation (Continued)

### Timer recording using On Screen Display

If you choose not to use **VIDEO Plus+ System Recording**, you can set timer recordings manually. You may set up to seven timer record events within one month of the current date.

**PLEASE NOTE!** before setting the timer make sure that you have set the DVD/VCR Receiver clock correctly and you know which channels on your DVD/VCR Receiver you have tuned to TV stations. In a stage 4, if you want to record from either of the SCART sockets or AV3 on the front, press **INPUT SELECT**.

#### 1 Insert a video cassette with protection tab into your DVD/VCR Receiver.

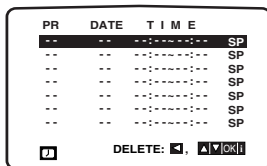
The video cassette should have the window side facing up and the arrow facing away from you.

#### 2 Press MENU (i).

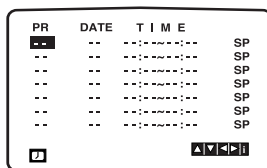
Press **←** or **→** to select REC and press ENTER/OK

If all timer record events are full press **↑** or **↓** to select the event that you wish to remove and replace.

Press **←** to delete the event.



#### 3 Press ENTER/OK to start setting the timer record event.

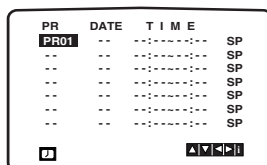


#### 4 Press the numerical buttons to enter the station that you wish to record.

When selecting stations 1 - 9, press 0 first, then the channel number; for example Stations 3 - 03. You may also select Channels by pressing **↑** or **↓**.

If you want to record from either of the SCART sockets or AV3 IN on the front, repeatedly press **INPUT SELECT** for the correct display (AV1, AV2 or AV3).

Once selected press **→**.

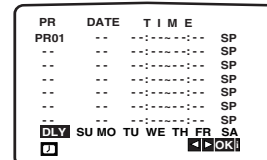


#### 5 Press the numerical buttons to enter the date of the programme.

If you press **ENTER/OK** before entering the date you may select one of the following automated recording features. Press **←** or **→** to select, then press **ENTER/OK** to confirm.

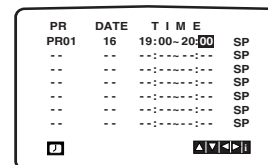
**DLY** To record every day (except Saturday and Sunday) at the same time.

**SU - SA** To record at the same time every week.



#### 6 Press the numerical buttons to enter the recording start and end times of the programme that you wish to record.

Please note your DVD/VCR Receiver uses a 24-hour clock. e.g. 1pm will be displayed as 13:00. You may also select the start and end times by pressing **↑** or **↓**.



#### 7 Press → and press ↑ or ↓ to switch PDC on or off.

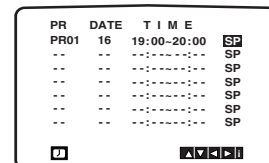
If you are recording from stations that do not broadcast PDC switch PDC off! (\* symbol will disappear on the TV screen). Remember only certain stations transmit PDC.

#### 8 Press → to select the recording speed and press ↑ or ↓ if you wish to record in SP, IP or LP.

• IP (Intelligent LP recording) on page 26.

#### 9 Check that the timer event details are correct. Press MENU (i) to save your settings.

If **PLEASE CHECK** is displayed, you have entered data incorrectly and will need to re-enter the data.



#### 10 Press MENU (i) to remove the menus.

If you want to make other timer recordings repeat stages 2 - 9.

#### 11 Press I / ⏻ to switch your DVD/VCR Receiver to Standby.

TIMER will appear in the DVD/VCR Receiver's display while your DVD/VCR Receiver waits to make the recording.

If the DVD/VCR Receiver is DVD mode, even with the DVD/VCR Receiver is power on, it will record any timer programme. You can clear the recording by pressing STOP during programmed recording.

## VIDEO Operation (Continued)

### Hi-Fi Stereo Sound System

Your DVD/VCR Receiver will record and play back Hi-Fi stereo sound. In addition it has a NICAM digital stereo sound decoder. This allows you to record and play back the sound in several different ways. Video cassettes recorded on your DVD/VCR Receiver will have a normal mono audio track and two VHS Hi-Fi stereo audio tracks. These stereo tracks allow you to make audio recordings in Hi-Fi stereo or bilingual mode from a TV broadcast, stereo audio system, video disc or another Hi-Fi VIDEO.

#### 1 Your DVD/VCR Receiver's NICAM digital sound decoder allows you to enjoy broadcasts with NICAM sound, as well as standard stereo NICAM, bilingual and mono sound.

The particular type of sound received or that recorded will be briefly displayed on the TV screen for a couple of seconds:

##### STEREO

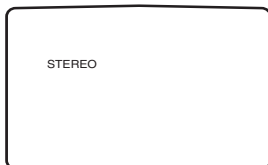
Sound is automatically recorded on the Hi-Fi stereo and mono tracks of the video tape.

##### BIL NICAM

Both audio channels will be recorded on the Hi-Fi stereo tracks. The primary language channel (left) will be recorded on the mono track of the video tape.

##### MONO

The sound is recorded on the Hi-Fi tracks and the mono track of the video tape without any separation.



#### 2 Press AUDIO repeatedly until the desired audio mode appears.

The choice is **STEREO**, **LEFT** (left channel), **RIGHT** (right channel) and **MONO**.

In **BIL NICAM** playback the primary language is output on the left channel and the secondary language is output simultaneously from the right channel when audio output is set to **STEREO**.

The primary language will be output from both channels when the audio setting is **MONO**.

Please note that when adjusting the tracking control Hi-Fi stereo sound may revert to **MONO**.

#### Note

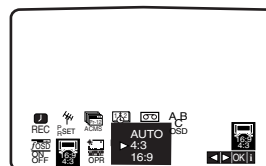
If the quality of stereo sound being received is poor, the broadcast is automatically received in monaural with better quality.

Still, if the quality of the sound is poor, set NIC in the main menu to OFF (see page 15). NICAM broadcasts will be detected.

### Widescreen Compatibility 16:9

Your DVD/VCR Receiver can record and play back widescreen aspect ratio programmes (16:9). To record a wide screen format programme successfully the correct type of widescreen signal must be broadcast by the TV station.

#### 1 Press MENU (i) and press ← or → to select 16:9/4:3. Press ENTER/OK



#### 2 Press ↑ or ↓ repeatedly to select : AUTO, 4:3 or 16:9.

##### AUTO:

Automatically plays back Widescreen programmes as Widescreen and Normal programmes as normal.

##### 4:3:

Only for playing back and recording Normal format recordings (4:3).

##### 16:9:

Only for playing back and recording Widescreen format recordings (16:9).

#### 3 Press MENU (i) to remove the menus.

#### Note

To enjoy Widescreen playback you must connect your DVD/VCR Receiver to the TV using a SCART lead.

## VIDEO Operation (Continued)

### Copying from DVD to VIDEO

This unit allows you to copy the contents of a DVD to a VHS tape.

#### Note

If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs. "LOCK" will blink on the display window.

- 1 Insert Disc.**  
Insert the disc you wish to copy in the DVD deck and close the disc tray.
- 2 Insert VHS Tape.**  
Insert a blank VHS video tape into the VIDEO deck.
- 3 Press  $\triangleright$  (PLAY) on the DVD deck.**  
The DVD will go into play mode
  - If the DVD disc menu appears, you may need to press the  $\triangleright$  (PLAY) manually to begin copying.
- 4 Press REC/ITR (●).**  
The DVD/VCR Receiver will go into Record mode.
- 5 Stop the Copy Process.**  
When the DVD is finished playing, press ■ (STOP) to end the copy.  
You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

#### Note

If you try to copy a disc with NTSC disc, the recording will not be recorded correctly because this DVD/VCR Receiver's color system is PAL.

### Recording from another video recorder

With the DVD/VCR Receiver you can make recordings from an external source, such as copying from another VIDEO or a camcorder.

#### Note

In the following description, this DVD/VCR Receiver will be one used for recording and other VIDEO will be used for playback.

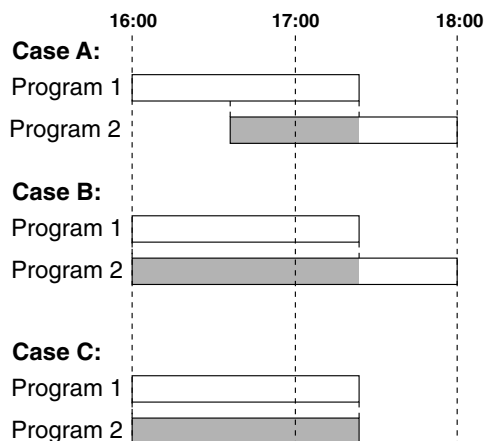
- 1 VIDEO should be connected to the one of the SCART sockets on the rear panel of your DVD/VCR Receiver or the AV3 sockets on the front panel of your DVD/VCR Receiver.**
- 2 Press INPUT SELECT until the socket you wish to record from is displayed.**
  - AV1** Sound and Picture recording using the lower EURO AV1 socket on the back of your DVD/VCR Receiver.
  - AV2** Sound and Picture recording using the upper EURO AV2 EXTERNAL socket on the back of your DVD/VCR Receiver.
  - AV3** Sound and Picture recording from **AV3 IN** sockets (analog audio) on the front of your DVD/VCR Receiver.
- 3 Insert the recorded tape into VIDEO and a blank tape into DVD/VCR Receiver.**
- 4 To start recording, press REC/ITR (●) on DVD/VCR Receiver and press  $\triangleright$  (PLAY) on VIDEO.**
- 5 When you want to finish copying, press the ■ (STOP) on both appliances.**  
Press ■ (STOP) at DVD/VCR Receiver.

## Additional Information

### If Timer record events Overlap...

Do not overlap programmes, since overlapping portions of the conflicting programmes will not be recorded.

Earlier recording times have priority over later recording times as shown in the diagram.



■: This portion will not be recorded.

### Change (Deleting) the Timer Programme

If at a later date you wish to **delete** or **change** any of the settings in timer event memory you may do so without having to enter all the timer event information again.

Simply display the timer event screen. Press **▲** or **▼** to select the event that you wish to **delete** or **change**.

Press **◀** to delete the event...or

Press **ENTER/OK** to change; then press **▲** or **▼** to select; Station, Date, Start and End times, PDC and LP. Press **▲** or **▼** to enter the correct information.

### The Programme Delivery Control (PDC)

The Programme Delivery Control (**PDC**) adjusts the start and end times of a timer record event. This can be particularly useful with sports events which may run over into extra time. The PDC signal is transmitted by the broadcaster and this controls your video recorder's timer.

Currently only a limited number of TV companies transmit PDC signals.

**Please make sure that when recording from channels that do not broadcast PDC that you turn PDC OFF.**

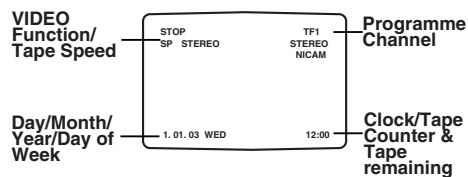
### On Screen Display (OSD)

You may easily display the clock or tape counter and tape remaining, day, month, year, day of week, programme channel, tape speed and VIDEO function on the TV screen.

If a recording is taking place these On Screen Displays will not be recorded onto the tape.

**1** Press **DVD DISPLAY (CLK/CNT)** to display.

**2** Press **DVD DISPLAY (CLK/CNT)** repeatedly to display the tape counter.



During playback or recording, the tape remaining is displayed with the tape counter.

**3** After 3 seconds the display will clear from the TV screen, leaving only the clock or tape counter and tape remaining on the TV screen. Press **DVD DISPLAY (CLK/CNT)** again to remove all displays from the TV screen.

The tape remaining will only be accurate for E-180 and E-240 tapes.

The tape remaining indicator may not be accurate, since it depends on the type or condition of tape used. Also, the tape remaining indicator is not displayed just after a cassette has been inserted, or after playback or recording has begun.

## DVD and Video CD Operation

### Playing a DVD and Video CD

#### Playback Setup **DVD** **VCD2.0** **VCD1.1**

- Turn on the TV and select the video input source connected to the DVD/VCR Receiver.
- Audio system: Turn on the audio system and select the input source connected to the DVD/VCR Receiver.
- Set the Output Source to DVD as shown in Selecting the Output/Input Source on page 13.

- 1 Press  $\square$  DVD to open the disc tray.**
- 2 Place a disc on the tray, with the label facing up.**  
When a double-sided DVD is inserted, make sure the side you want to play is facing down.
- 3 Press  $\square$  DVD to close the tray.**  
"READING" appears in the display window, and playback starts automatically. If playback does not start, press  $\triangleright$  (PLAY).  
In some cases, the disc menu might appear instead.

#### If a menu screen is displayed

A menu screen may appear automatically after loading a DVD.

#### **DVD**

Use  $\leftarrow/\rightarrow/\uparrow/\downarrow$  buttons to select the title/chapter you want to view, then press ENTER/OK to start playback. Press DVD TOP MENU or DVD MENU to return to the menu screen.

#### **VCD2.0**

- Use the number buttons to select the track you want to view. Press RETURN to return to the menu screen.
- Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen.  
You also may set PBC to Off under setup. See page 23.

#### Notes

- If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit password must be entered and/or the disc must be authorized (see Parental Control, on page 22).
- DVDs may have a Region Code.
- Your DVD/VCR Receiver will not play discs that have a Region Code different from your DVD/VCR Receiver. The Region Code for this DVD/VCR Receiver is 2 (two).
- Do not keep a fixed image displayed on the screen for a long time.

## General Features

#### Note

Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

#### Resuming Playback **DVD** **VCD2.0** **VCD1.1** **CD**

When you stop the disc, the player remembers the point where you pressed  $\blacksquare$  (STOP) and "RESUME  $\blacksquare$ " appears on the TV screen. Press  $\triangleright$  (PLAY) and play will resume from this point.

#### Tip

To play from the beginning of the disc, press  $\blacksquare$  twice, then press  $\triangleright$ .

#### Notes

- Depending on where you stopped the disc, the recorder may not resume playback from exactly the same point.
- The point where you stopped playing is cleared when:
  - Press  $\blacksquare$  in the STOP mode.

#### Selecting Another TITLE **DVD** 1/3

If a disc has more than one title, you can select another title as follows:

- Press DVD DISPLAY, then press the appropriate number buttons (0-9).
- Press DVD DISPLAY, then use  $\leftarrow/\rightarrow$  to select a title number, then press ENTER/OK.

#### Selecting Another CHAPTER/TRACK

#### **DVD** **VCD2.0** **VCD1.1** 1/12 1/3

If a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press  $\lll$  or  $\ggg$  briefly during playback to return to the beginning of the current chapter/track or to select the next chapter/track.
- Press  $\lll$  twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during playback, press DVD DISPLAY. Use  $\uparrow/\downarrow$  to select chapter/track icon. Then, enter the chapter/track number with the number buttons (0-9). or use  $\leftarrow/\rightarrow$  to select chapter then, press ENTER/OK.

#### Notes

- For two-digit numbers, press the number buttons (0-9) in rapid succession.
- On a Video CD with PBC, you must set PBC to Off on the setup menu to use this function. See page 23.

#### Search **DVD** **VCD2.0** **VCD1.1**

- 1 Press  $\lll$  or  $\ggg$  for about two seconds during playback.  
The DVD/VCR Receiver will now go into SEARCH mode.
- 2 Press  $\lll$  or  $\ggg$  repeatedly to select the required speed: X2  $\lll$ , 1  $\lll$ , 2  $\lll$ , 3  $\lll$  (backward) or X2  $\ggg$ , 1  $\ggg$ , 2  $\ggg$ , 3  $\ggg$  (forward).  
With a Video CD, the Search speed changes: 1  $\lll$ , 2  $\lll$ , 3  $\lll$  (backward) or 1  $\ggg$ , 2  $\ggg$ , 3  $\ggg$  (forward).
- 3 To return to playback, press  $\triangleright$  (PLAY).

#### Still Picture **DVD** **VCD2.0** **VCD1.1**

- 1 Press  $\|\|$  (PAUSE) during playback.  
The DVD/VCR Receiver will go into PAUSE mode.
- 2 To return to playback, press  $\|\|$  (PAUSE) again or  $\triangleright$  (PLAY).

## DVD and Video CD Operation (Continued)

### General Features (Continued)

#### Slow Motion **DVD** **VCD2.0** **VCD1.1**

- 1 Press **II** (PAUSE) during playback.  
The DVD/VCR Receiver will now go into PAUSE mode.
- 2 Press SLOW **◀** or **▶** during pause mode.  
The DVD/VCR Receiver will enter SLOW mode.
- 3 Use SLOW **◀** or **▶** to select the required speed:  
4 **◀**, 3 **◀**, 2 **◀** or 1 **◀** (backward), or 4 **▶**, 3 **▶**, 2 **▶** or 1 **▶** (forward).
- 4 To return to playback, press **▷** (PLAY).

#### Note

Slow motion playback in reverse is not applicable for Video CD.

#### Shuffle **Karaoke DVD** **VCD2.0** **VCD1.1**

- 1 Press SHUFFLE during playback or in Stop mode.  
The unit automatically begins Shuffle Playback and "SHUFFLE" appears on the TV screen.
- 2 To return to normal playback, press SHUFFLE until "NORMAL" appears on the TV screen.

#### Tip

By pressing **▶▶** during Shuffle playback, the unit selects another title (track) and resumes Shuffle playback.

#### Notes

- This function only works with DVD Karaoke discs and Video CD without PBC.
- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Shuffle function. See page 23.
- After finishing the Shuffle playback mode, Shuffle function is canceled.

#### Repeat **DVD** **VCD2.0** **VCD1.1**

##### DVD Video Discs - Repeat Chapter/Title/Off

- 1 Press REPEAT when playing a disc.  
The Repeat icon appears on the TV screen.
- 2 Press REPEAT to select a desired repeat mode.



- CHAPT: repeats the current chapter.
- TITLE: repeats the current title on a disc.
- OFF: does not play repeatedly.

##### Video CDs - Repeat Track/All/Off

- 1 Press REPEAT when playing a disc.  
The Repeat icon appears on the TV screen.
- 2 Press REPEAT to select a desired repeat mode.



- TRACK: repeats the current track
- ALL: repeats all the tracks on a disc.
- OFF: does not play repeatedly.

#### Notes

- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 23.
- By pressing **▶▶** during Random playback, the unit selects another title and resumes Random playback.
- When you press **◀◀** twice or **▶▶** during Repeat mode to go to previous track or next track, repeat mode is canceled.

#### Repeat A-B **DVD** **VCD2.0** **VCD1.1**



To repeat a sequence in a title(track):

- 1 During disc playback, Press A-B at your chosen start point.  
"A \* " appears briefly on the TV screen.
- 2 Press A-B again at your chosen end point.  
"A B" appears briefly on the TV screen, and the repeat sequence begins.
- 3 To cancel the sequence and return to normal play, press A-B.

#### Note

Repeat A-B play may not work with some scene of the DVD.

#### Time Search **DVD**



The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press DVD DISPLAY during playback. The on-screen display appears on the screen.  
The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 10 seconds, use **▲/▼** to select the Time Search icon in the on-screen display.  
The ":-:--:" appears in the Time Search box.
- 3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes and seconds from left to right in the box.  
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
- 4 Within 10 seconds, press ENTER/OK.  
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

#### 3D Surround **DVD** **VCD2.0** **VCD1.1**



This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theatre system.

- 1 Press SOUND FIELD to select "3D SUR" during playback.
- 2 To turn off the 3D Surround effect, press SOUND FIELD again to select "BYPASS".

#### Note

On DVD, you can select "3D SUR" only during playing 2 channel audio.



## DVD and Video CD Operation (Continued)

### Special DVD Features

#### Checking the contents of DVD Video discs: Menus

DVDs may contain menus that allow you to access special features. To use the disc menu, press DVD DISPLAY. Then, press the appropriate number button to select an option. Or, use ◀/▶/▲/▼ buttons to highlight your selection, then press ENTER/OK.

#### Title Menu

- 1 Press DVD TOP MENU.  
If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
- 2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- 3 To remove the title menu, press DVD TOP MENU again.

#### DVD Menu

- 1 Press DVD MENU.  
The disc menu is displayed.
- 2 To remove the disc menu, press DVD MENU again.

#### Camera Angle 1/1

If the disc contains sequences recorded from different camera angles, the angle icon appears on the TV screen. You can then change the camera angle if you wish.

- Press ANGLE repeatedly during playback to select a desired angle.  
The number of the current angle appears on the display.

#### Changing the Audio Language



Press AUDIO repeatedly during playback to hear a different audio language or audio track.

#### Changing the Audio Channel




Press AUDIO repeatedly during playback to hear a different audio channel (ST, LEFT or RIGHT).

#### Subtitle 1 ENG

Press SUBTITLE repeatedly during playback to see the different subtitle languages.

#### Note

If  appears, the feature at that moment or with that specific DVD.

#### Screen Saver

The screen saver picture appears when you leave the DVD/VCR Receiver in Stop mode for about 5 minutes.

## Audio CD and MP3 Disc Operation

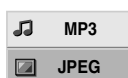
### Playing an Audio CD and MP3 Disc

The DVD/VCR Receiver can play MP3 formatted recordings on CD-ROM, CD-R or CD-RW discs. Before playing MP3 disc, read the notes on MP3 files on right.

#### 1 Insert a disc and close the tray.

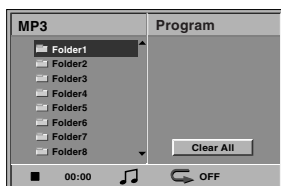
**Audio CD:** Audio CD menu appears on the TV screen go to step 4.

**MP3 disc:** The MP3/JPEG select menu appears on the TV screen. Go to step 2



#### 2 Use $\uparrow/\downarrow$ to select the MP3 then press ENTER/OK.

The MP3 disc Menu appears on the TV screen. Press RETURN to move to the MP3/JPEG select menu.



#### 3 Use $\uparrow/\downarrow$ to select a folder, and ENTER/OK.

A list of files in the folder appears.

If a list of files contains another folder, repeat step 3 once more.

#### Tip

If you are in a file list and want to return to the Folder list, use the  $\uparrow/\downarrow$  to highlight  $\leftarrow$  and press ENTER/OK to return to the previous menu screen.

#### 4 Use $\uparrow/\downarrow$ to select a track then press $\triangleright$ (PLAY) or ENTER/OK.

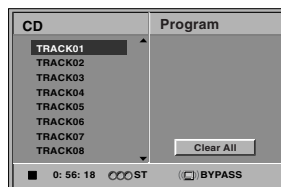
Playback starts.

During playback, the current track's elapsed playing time will appear in the display window and menu.

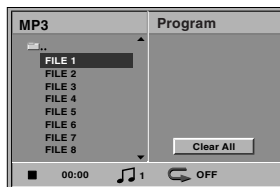
Playback will stop at the end of the disc.

Press DVD TOP MENU to move to the next page.

Press DVD MENU to move to the previous page.



Audio CD Menu



MP3 disc Menu

#### 5 press $\blacksquare$ (STOP) to stop playback.

### Notes on MP3 Files

#### About MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The DVD/VCR Receiver can not read an MP3 file that has a file extension other than ".mp3".

#### MP3 Disc compatibility with this DVD/VCR Receiver is limited as follows:

- Sampling Frequency : only at 44.1kHz
- Bit rate : within 32 - 320kbps
- CD-R physical format should be "ISO 9660"
- If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "UDF" etc., it is impossible to playback MP3 files. We recommend that you use an ISO9660 file system.
- A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
- File names should be named using 8 letters or less and must incorporate ".mp3" extension  
e.g. "\*\*\*\*\*.mp3".
- Do not use special letters such as "/ : \* ? < >" etc.
- Total number of files on the disc should be less than 650.

This DVD/VCR Receiver requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files). That require certain pre-existing conditions (see above) to insure compatible playback.

**Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.**

## Audio CD and MP3 Disc Operation (Continued)

### Pause **CD** **MP3**

- 1 Press **II** (PAUSE) during playback.
- 2 To return to playback, press **II** (PAUSE) again or press **▷** (PLAY).

### Selecting Another Track **CD** **MP3**

If a disc has more than one track, you can move to another track as follows:

- Press **◀◀** or **▶▶** briefly during playback to go to the next track or to return to the beginning of the current track.
- Press **◀◀** twice briefly to step back to the previous track.
- On Audio CDs, to go directly to any track, enter the track number using the number buttons (0-9) during playback.

#### Note

For two-digit numbers, press the number buttons (0-9) in rapid succession.

### Search **CD** **MP3**

- 1 Press **◀◀** or **▶▶** for about two seconds during playback.  
The DVD/VCR Receiver will now go into SEARCH mode.
- 2 Press **◀◀** or **▶▶** repeatedly to select the required speed: 1 **◀◀**, 2 **◀◀**, 3 **◀◀** (backward) or 1 **▶▶**, 2 **▶▶**, 3 **▶▶** (forward).  
Search speed and direction are indicated on the menu screen.
- 3 To return to playback, press **▷** (PLAY).

### Shuffle **CD** **MP3**

- 1 Press SHUFFLE during playback or in Stop mode.  
The unit automatically begins Shuffle Playback and "SHUFFLE" and "SHUF" appears in the display window and menu screen.
- 2 To return to normal playback, press SHUFFLE repeatedly until "SHUFFLE" and "SHUF" disappears from the display window and menu screen.

#### Tip

By pressing **▶▶** during Shuffle playback, the unit selects another track and resumes Shuffle playback.

#### Note

After finishing the Shuffle playback mode, Shuffle function is canceled.

### Repeat **CD** **MP3**

- 1 Press REPEAT when playing a disc.  
The Repeat icon appears on the TV screen.
- 2 Press REPEAT to select a desired repeat mode.



- TRACK: repeats the current track
- ALL: repeats all the tracks on a disc.
- OFF: does not play repeatedly.

#### Note

When you press **◀◀** twice or **▶▶** during Repeat mode to go to previous track or next track, repeat mode is canceled.

### Repeat A-B **CD**

To repeat a sequence in a track.

- 1 During disc playback, press A-B at your chosen starting point.  
The Repeat icon and "A \* " appears on the menu screen.
- 2 Press A-B again at your chosen end point.  
"A B" appears on the menu screen, and the repeat sequence begins.
- 3 To cancel the sequence and return to normal play, press A-B again.  
The Repeat icon and "OFF" appears on the menu screen.

### 3D Surround **CD**

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theatre system.

- 1 Press SOUND FIELD to select "3D SUR" during playback.
- 2 To turn off the 3D Surround effect, press SOUND FIELD again to select "BYPASS".

### Changing the Audio Channel **CD**

Press AUDIO repeatedly during playback to hear a different audio channel (ST, LEFT, or RIGHT).

## JPEG File Operation

### Viewing JPEG Files on a Disc **JPEG**

This DVD/VCR Receiver can play discs with JPEG files. Before playing JPEG files, read the notes on JPEG Files on right.

- 1 Insert a disc and close the tray.**  
The MP3/JPEG select menu appears on the TV screen.



- 2 Use  $\uparrow/\downarrow$  to select the JPEG then press ENTER/OK.**  
The JPEG menu appears on the TV screen.

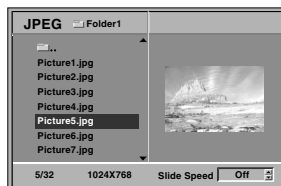


- 3 Use  $\uparrow/\downarrow$  to select a folder, and ENTER/OK.**  
A list of files in the folder appears.  
Press RETURN to move to the MP3/JPEG select menu.

#### Tip

If you are in a file list and want to return to the Folder list, use the  $\uparrow/\downarrow$  buttons on the remote to highlight “ $\dots$ ” and press ENTER/OK to return to the previous menu screen.

- 4 Use  $\uparrow/\downarrow$  to select a file then press ENTER/OK or  $\triangleright$  (PLAY).**  
Viewing the file function starts.  
While viewing a file, press RETURN to move to the previous menu (JPEG menu).  
Press DVD TOP MENU to move to the next page.  
Press DVD MENU to move to the previous page.



#### Tip

There are three viewing Slide Speed options: Fast, Normal, Slow, and Off. Use  $\leftarrow/\rightarrow$  to highlight the Slide Speed then use  $\uparrow/\downarrow$  to select the option you want to use, and press ENTER/OK.

- 5 Press  $\blacksquare$  (STOP) to stop viewing.**  
The JPEG menu appears.

### Selecting another Files

Press  $\lll$  or  $\ggg$  once while viewing a picture to advance to the next file or to the previous file.

### Still Picture

- Press  $\blacksquare$  (PAUSE) during slide show.  
The DVD/VCR Receiver will now go into PAUSE mode.
- To return to the slide show, press  $\triangleright$  (PLAY) or  $\blacksquare$  (PAUSE) again.

### To flip the picture

Press  $\uparrow/\downarrow$  while showing a picture to flip the picture horizontally or a vertically.

### To rotate picture

Press  $\leftarrow/\rightarrow$  while showing a picture to rotate the picture clockwise or counter clockwise.

### To record the picture slide show

Press  $\bullet$  REC/ITR to record.

### Notes on JPEG Files


- Depending upon the size and number of the JPEG files, it could take a long time for the DVD/VCR Receiver to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files are too big — reduce the resolution of the JPEG files to less than 2 mega pixels and burn another disc.
- Total number of files and folders on the disc should be less than 650.
- Some disc may be incompatible due to different recording format or condition of disc.
- If the files have “.jpe” or “.jpeg” extensions, please rename them as “.jpg” files.
- File names without “.jpg” extension will not be able to be read by this DVD/VCR Receiver, even though the files are shown as JPEG image files in windows explorer.

## Programmed Playback with Audio CD and MP3 Disc


The Program function enables you to store your favorite tracks from any disc in the DVD/VCR Receiver memory.

Program can contain 30 tracks.

### 1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.

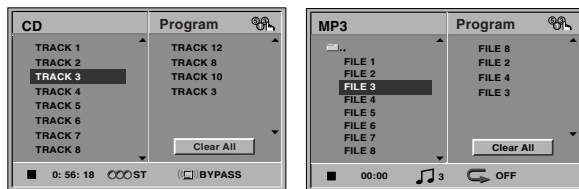
The  mark will appear to the right of the word Program on the right side of the menu screen.

#### Note

Press PROGRAM to exit the Program Edit mode; the  mark will disappear.

### 2 Select a track, then press ENTER/OK to place the selected track on the Program list.

### 3 Repeat step 2 to place additional tracks on the Program list.



Audio CD menu

MP3 disc Menu

### 4 Press $\blacktriangleright$ .

The programmed track you selected last is highlighted on the program list.

### 5 Press $\uparrow/\downarrow$ to select the track you want to start playing.

Press DVD TOP MENU to move to the next page.  
Press DVD MENU to move to the previous page.

### 6 Press $\blacktriangleright$ (PLAY) or ENTER/OK to start.

Playback begins in the order in which you programmed the tracks and "PGM" appears on the menu screen. Playback stops after all of the tracks on the Program list have played once.

### 7 To return normal playback from programmed playback, press PROGRAM to exit the Program Edit mode. Select a track of CD (or MP3) list and then press ENTER/OK or $\blacktriangleright$ (PLAY).

"PGM" indicator disappears in the display window.

## Programmed Playback with Video CD

#### Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 23.

### 1 Insert Video CD and close the tray.

### 2 Press PROGRAM while playback is stopped.

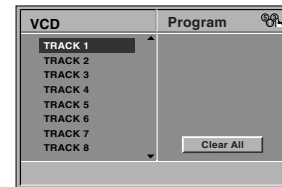
The VCD Program menu will appear.

#### Note

Press RETURN, PROGRAM or  $\blacktriangleright$  (PLAY) to exit the Program menu.

### 3 Follow steps 2-6 of "Programmed Playback with Audio CD and MP3 disc" on left.

"PGM" and "PROGRAM" appears in the display window and TV screen.

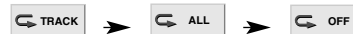


### 4 To return normal playback from programmed playback, press PROGRAM.

"PGM" indicator disappears in the display window.

## Repeat Programmed Tracks

- 1 Press REPEAT when playing the programmed tracks. The Repeat icon appears on the TV screen.
- 2 Press REPEAT to select a desired repeat mode.



- TRACK: repeats the current track
- ALL: repeats all tracks on the program list.
- OFF: does not play repeatedly.

## Erasing a Track from Program List

- 1 Press PROGRAM during playback (Audio CD and MP3 disc only) or stop to enter the Program Edit mode.

The  mark will appear.

- 2 Press  $\blacktriangleright$  to move to the Program list.
- 3 Use  $\uparrow/\downarrow$  to select the track that you wish to erase from the Program list.
- 4 Press CLEAR.

The track will be erased from the Program list.

## Erasing the whole Program List

- 1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
- 2 Use  $\uparrow/\downarrow$  to select "Clear All", then press ENTER/OK. The complete Program for the disc will be erased

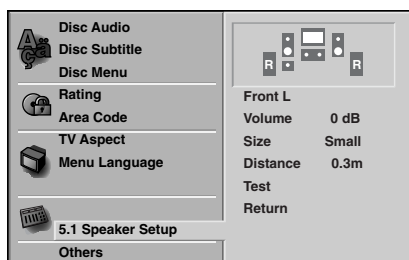
#### Notes

- The programs are cleared when the disc is removed.
- The programs are cleared when another function mode (VIDEO, radio etc.) is selected.

## Speaker Setup

You can set your personal preferences on the DVD function mode.

Adjust the following settings for the built-in 5.1 channel surround decoder.



- 1 Press SETUP/MENU.**  
The Setup menu appears.
- 2 Select "5.1 Speaker Setup" using the  $\uparrow/\downarrow$  buttons on the setup menu.**
- 3 While "5.1 Speaker Setup" is selected, press  $\rightarrow$  button.**
- 4 Press  $\rightarrow$  buttons to select the desired speaker.**
- 5 Adjust options by using  $\uparrow/\downarrow/\leftarrow/\rightarrow$  buttons.**

### Speaker selection

Select a speaker that you want to adjust. ((Front speaker (Left), Front speaker (Right), Center Speaker, Rear speaker (Left), Rear speaker (Right), or Subwoofer))

#### Note

Certain speaker settings are prohibited by the Dolby Digital licensing agreement.

### Volume

Press  $\leftarrow / \rightarrow$  to adjust the output level of the selected speaker. (-6dB ~ 6dB)

### Size

Since the speaker settings are fixed, you cannot change the settings.

- Subwoofer's size is fixed "Large" and the other speaker's size are fixed "small".

### Distance

If you connected speakers to your DVD/VCR Receiver, setting the Distance lets the speakers (except subwoofer) know how far the sound has to travel to reach your set listening point. This allows the sound from each speaker to reach the listener at the same time.  
(1 - 20 ft, 1 ft = 0.30 m)

#### Note

You can not set the distance of subwoofer speaker.

### Test

Press ENTER/OK to test the signals of each speaker. Adjust the volume to match the volume of test signals memorized in the system.

- Front Left (L)  $\rightarrow$  Center  $\rightarrow$  Front Right (R)  $\rightarrow$  Rear Right (R)  $\rightarrow$  Rear Left (L)  $\rightarrow$  Subwoofer

You can stop the test using  $\uparrow/\downarrow$ .

### Return

Press ENTER/OK to return to the previous menu.

## Radio Operation

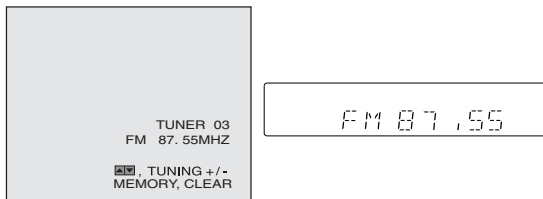
### Presetting the Radio Stations

You can preset 30 stations for FM and AM. Before tuning, make sure that you have turned down the volume.

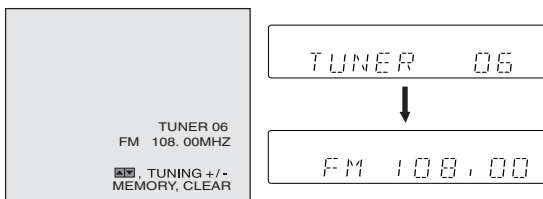
#### Notes

- The On Screen Display for radio is not appeared when:
  - the TIMER appears in the display window.
  - the DVD/VCR Receiver in recording mode.

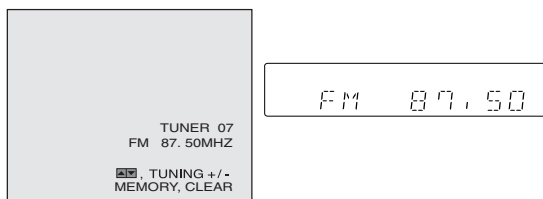
- 1** Press TUNER FM/AM on the remote control until the frequency band appears on the display and TV screen.



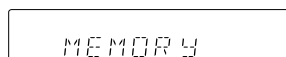
- 2** Press PRESET (+/-) on the remote control to select your desired radio channel.



- 3** Press TUNER FM/AM on the remote control to select the desired band.
- 4** Hold down TUNING (+/-) on the remote control for 1 or 2 seconds, and a station is searched for automatically.



- 5** Press MEMORY on the remote control.



- 6** Repeat steps 2 to 5 to store other stations.

### Listening to the Radio

Preset radio stations in the DVD/VCR Receiver memory first (see "Presetting radio stations" on the left).

- 1** Press TUNER FM/AM on the remote control until the frequency band appears on the display and TV screen.

The last received station is tuned in.

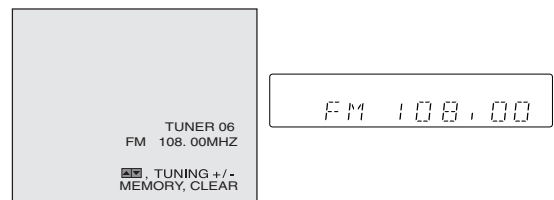
- 2** Press PRESET (+/-) on the remote control repeatedly to select the preset station you want.

Each time you press the button, the DVD/VCR Receiver tunes in one preset station at a time.

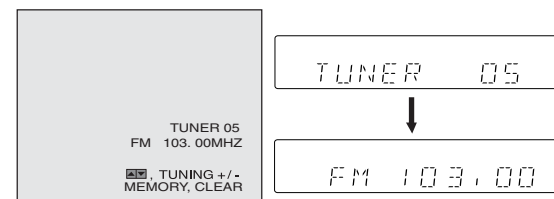
- 3** Adjust the volume by rotating VOLUME on the front panel or by pressing VOL + or - on the remote control repeatedly.

### To Clear the Stored Radio Stations

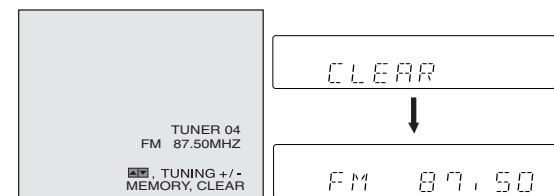
- 1** Press TUNER FM/AM on the remote control until the frequency band appears on the display and TV screen.



- 2** Press PRESET (+/-) on the remote control to select your desired station.



- 3** Press CLEAR the remote control to clear the stored radio station.



## Radio Operation (Continued)

### Tuning into a Station Manually

- 1** Press **TUNER FM/AM** on the remote control until the frequency band appears on the display and TV screen.
- 2** Press **TUNER FM/AM** on the remote control to select the desired band.
- 3** Press **TUNING (+/-)** on the remote control to tune in the desired station.

### For your reference

#### Weak FM stations

"STEREO" may flash when the weak FM stereo signal is received, select another station.

#### To turn off the radio

Press **I** / **⏻** to turn the DVD/VCR Receiver off or select another function mode (DVD or VIDEO).

### Tuning into a Station Automatically

Hold down **TUNING (+/-)** on the remote control for 1 or 2 seconds, and a station is searched for automatically.

#### Note

The search may not stop at a station with a very weak signal.

### Muting

Press **MUTING** to mute your unit.

You can mute your unit in order, for example, to answer the telephone, **MUTING** appear in the display.

### RDS Operation

This unit is equipped with RDS (Radio Data System), which brings a wide range of information to FM radio. Now in use in many countries, RDS is a system for transmitting station call signs or network information, a description of station programme type text message about the station or specifics of musical selection and the correct time.

#### RDS Tuning

When a FM station is tuned in and it contains RDS data, the unit will automatically display the station's call sign and the RDS indicator will light in the Display Window as well as indicators for the RDS services programme (PS) if transmitted by the station.

#### RDS Display

The RDS system is capable of transmitting a wide variety of information in addition to the initial call sign that appears when a station is first tuned. In normal RDS operation the display will indicate the station name. Pressing **RDS** on the remote control enables you to show the station name.

#### Note

If the RDS services programme (PS) is not being transmitted, the Display Window will show a **PS NONE** message.



## Controlling the TV with the Supplied Remote

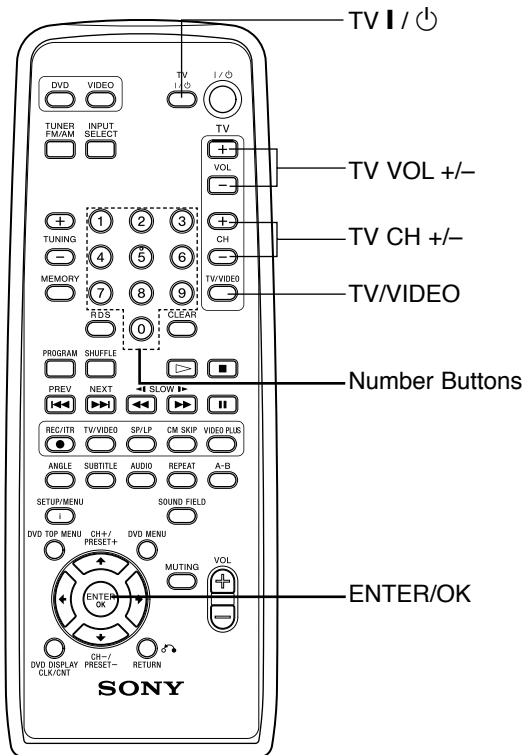
By adjusting the remote signal, you can control your TV with the supplied remote.

### Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number may be reset to the default (SONY) setting. Reset the appropriate code number.

## Controlling TVs with the remote

Press and hold **TV I / ⏻** while entering your TV's manufacturer's code (see the table) using the number buttons and press **ENTER/OK**. Then release **TV I / ⏻**.



## Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code Number
SONY	501
AIWA	553, 501
DAEWOO	504, 505, 506, 507, 515, 544
FISHER	508
GOLDSTAR/LG	503, 511, 512, 515, 534, 544
GRUNDIG	517, 534
HITACHI	513, 514, 515, 544
JVC	516
MAGNAVOX	503, 518, 544
MITSUBISHI/MGA	503, 519, 544
NEC	503, 520, 544
PANASONIC	509, 524
PHILIPS	515, 518
PIONEER	509, 525, 526, 540
RCA/PROSCAN	510, 527, 528, 529, 544
SAMSUNG	503, 515, 531, 532, 533, 534, 544
SANYO	508, 545, 546, 547
SHARP	535
TELEFUNKEN	523, 536, 537, 538
THOMSON	537, 539
TOSHIBA	535, 540, 541
ZENITH	542, 543

## Controlling the TV

You can control your TV using the buttons below.

By pressing	You can
TV I / ⏻	Turn the TV on or off.
TV/VIDEO	Switch the TV's input source between the TV and other input sources.

### Note

Depending on the TV, you may not be able to control your TV or to use some of the buttons above.

## Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu"  
(See page 21).

Code	Language	Code	Language	Code	Language	Code	Language
6566	Abkhazian	7074	Fiji	7678	Lingala	8373	Singhalese
6565	Afar	7073	Finnish	7684	Lithuanian	8375	Slovak
6570	Afrikaans	7082	French	7775	Macedonian	8376	Slovenian
8381	Albanian	7089	Frisian	7771	Malagasy	8379	Somali
6577	Ameharic	7176	Galician	7783	Malay	6983	Spanish
6582	Arabic	7565	Georgian	7776	Malayalam	8385	Sudanese
7289	Armenian	6869	German	7784	Maltese	8387	Swahili
6583	Assamese	6976	Greek	7773	Maori	8386	Swedish
6588	Aymara	7576	Greenlandic	7782	Marathi	8476	Tagalog
6590	Azerbaijani	7178	Guarani	7779	Moldavian	8471	Tajik
6665	Bashkir	7185	Gujarati	7778	Mongolian	8465	Tamil
6985	Basque	7265	Hausa	7865	Nauru	8484	Tatar
6678	Bengali; Bangla	7387	Hebrew	7869	Nepali	8469	Telugu
6890	Bhutani	7273	Hindi	7879	Norwegian	8472	Thai
6672	Bihari	7285	Hungarian	7982	Oriya	6679	Tibetan
6682	Breton	7383	Icelandic	8065	Panjabi	8473	Tigrinya
6671	Bulgarian	7378	Indonesian	8083	Pashto, Pushto	8479	Tonga
7789	Burmese	7365	Interlingua	7065	Persian	8482	Turkish
6669	Byelorussian	7165	Irish	8076	Polish	8475	Turkmen
7577	Cambodian	7384	Italian	8084	Portuguese	8487	Twi
6765	Catalan	7465	Japanese	8185	Quechua	8575	Ukrainian
9072	Chinese	7487	Javanese	8277	Rhaeto-Romance	8582	Urdu
6779	Corsican	7578	Kannada	8279	Rumanian	8590	Uzbek
7282	Croatian	7583	Kashmiri	8285	Russian	8673	Vietnamese
6783	Czech	7575	Kazakh	8377	Samoan	8679	Volapük
6865	Danish	7589	Kirghiz	8365	Sanskrit	6789	Welsh
7876	Dutch	7579	Korean	7168	Scots Gaelic	8779	Wolof
6978	English	7585	Kurdish	8382	Serbian	8872	Xhosa
6979	Esperanto	7679	Laothian	8372	Serbo-Croatian	7473	Yiddish
6984	Estonian	7665	Latin	8378	Shona	8979	Yoruba
7079	Faroese	7686	Latvian, Lettish	8368	Sindhi	9085	Zulu

## Area Code List

Enter the appropriate code number for the initial setting "Area Code" (See page 22).

Code	Country	Code	Country	Code	Country	Code	Country
AD	Andorra	ER	Eritrea	LC	Saint Lucia	SC	Seychelles
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein	SD	Sudan
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka	SE	Sweden
AG	Antigua and Barbuda	FI	Finland	LR	Liberia	SG	Singapore
AI	Anguilla	FJ	Fiji	LS	Lesotho	SH	Saint Helena
AL	Albania	FK	Falkland Islands	LT	Lithuania	SI	Slovenia
AM	Armenia	FM	Micronesia	LU	Luxembourg	SJ	Svalbard and Jan Mayen Islands
AN	Netherlands Antilles	FO	Faroe Islands	LV	Latvia	SK	Slovak Republic
AO	Angola	FR	France	LY	Libya	SL	Sierra Leone
AQ	Antarctica	FX	France (European Territory)	MA	Morocco	SM	San Marino
AR	Argentina	GA	Gabon	MC	Monaco	SN	Senegal
AS	American Samoa	GB	Great Britain	MD	Moldavia	SO	Somalia
AT	Austria	GD	Grenada	MG	Madagascar	SR	Suriname
AU	Australia	GE	Georgia	MH	Marshall Islands	ST	Saint Tome and Principe
AW	Aruba	GF	French Guyana	MK	Macedonia	SU	Former USSR
AZ	Azerbaijan	GH	Ghana	ML	Mali	SV	El Salvador
BA	Bosnia-Herzegovina	GI	Gibraltar	MM	Myanmar	SY	Syria
BB	Barbados	GL	Greenland	MN	Mongolia	SZ	Swaziland
BD	Bangladesh	GM	Gambia	MO	Macau	TC	Turks and Caicos Islands
BE	Belgium	GN	Guinea	MP	Northern Mariana Islands	TD	Chad
BF	Burkina Faso	GP	Guadeloupe (French)	MQ	Martinique (French)	TF	French Southern Territories
BG	Bulgaria	GQ	Equatorial Guinea	MR	Mauritania	TG	Togo
BH	Bahrain	GR	Greece	MS	Montserrat	TH	Thailand
BI	Burundi	GS	S. Georgia & S. Sandwich Isls.	MT	Malta	TJ	Tadjikistan
BJ	Benin	GT	Guatemala	MU	Mauritius	TK	Tokelau
BM	Bermuda	GU	Guam (USA)	MV	Maldives	TM	Turkmenistan
BN	Brunei Darussalam	GW	Guinea Bissau	MX	Mexico	TN	Tunisia
BO	Bolivia	GY	Guyana	MY	Malaysia	TO	Tonga
BR	Brazil	HK	Hong Kong	MZ	Mozambique	TP	East Timor
BS	Bahamas	HM	Heard and McDonald Islands	NA	Namibia	TR	Turkey
BT	Bhutan	HN	Honduras	NC	New Caledonia (French)	TT	Trinidad and Tobago
BV	Bouvet Island	HR	Croatia	NE	Niger	TV	Tuvalu
BW	Botswana	HT	Haiti	NF	Norfolk Island	TW	Taiwan
BY	Belarus	HU	Hungary	NG	Nigeria	TZ	Tanzania
BZ	Belize	ID	Indonesia	NI	Nicaragua	UA	Ukraine
CA	Canada	IE	Ireland	NL	Netherlands	UG	Uganda
CC	Cocos (Keeling) Islands	IL	Israel	NO	Norway	UK	United Kingdom
CF	Central African Republic	IN	India	NP	Nepal	UM	USA Minor Outlying Islands
CG	Congo	IO	British Indian Ocean Territory	NR	Nauru	US	United States
CH	Switzerland	IQ	Iraq	NU	Niue	UY	Uruguay
CI	Ivory Coast	IR	Iran	NZ	New Zealand	UZ	Uzbekistan
CK	Cook Islands	IS	Iceland	OM	Oman	VA	Vatican City State
CL	Chile	IT	Italy	PA	Panama	VC	Saint Vincent & Grenadines
CM	Cameroon	JM	Jamaica	PE	Peru	VE	Venezuela
CN	China	JO	Jordan	PF	Polynesia (French)	VG	Virgin Islands (British)
CO	Colombia	JP	Japan	PG	Papua New Guinea	VI	Virgin Islands (USA)
CR	Costa Rica	KE	Kenya	PH	Philippines	VN	Vietnam
CS	Former Czechoslovakia	KG	Kyrgyzstan	PK	Pakistan	VU	Vanuatu
CU	Cuba	KH	Cambodia	PL	Poland	WF	Wallis and Futuna Islands
CV	Cape Verde	KI	Kiribati	PM	Saint Pierre and Miquelon	WS	Samoa
CX	Christmas Island	KM	Comoros	PN	Pitcairn Island	YE	Yemen
CY	Cyprus	KN	Saint Kitts & Nevis Anguilla	PR	Puerto Rico	YT	Mayotte
CZ	Czech Republic	KP	North Korea	PT	Portugal	YU	Yugoslavia
DE	Germany	KR	South Korea	PW	Palau	ZA	South Africa
DJ	Djibouti	KW	Kuwait	PY	Paraguay	ZM	Zambia
DK	Denmark	KY	Cayman Islands	QA	Qatar	ZR	Zaire
DM	Dominica	KZ	Kazakhstan	RE	Reunion (French)	ZW	Zimbabwe
DO	Dominican Republic	LA	Laos	RO	Romania		
DZ	Algeria	LB	Lebanon	RU	Russian Federation		
EC	Ecuador			RW	Rwanda		
EE	Estonia			SA	Saudi Arabia		
EG	Egypt			SB	Solomon Islands		
EH	Western Sahara						

## Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Correction
No power.	<ul style="list-style-type: none"> <li>The power cord is disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> </ul>
The power is on, but the DVD/VCR Receiver does not work.	<ul style="list-style-type: none"> <li>No disc is inserted.</li> <li>No tape is inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)</li> </ul>
No picture.	<ul style="list-style-type: none"> <li>The TV is not set to receive DVD/VCR Receiver signal output.</li> </ul>	<ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV so the picture from the DVD/VCR Receiver appears on the TV screen.</li> </ul>
	<ul style="list-style-type: none"> <li>TV/VIDEO mode for DVD/VCR Receiver is set to TV.</li> </ul>	<ul style="list-style-type: none"> <li>Press the TV/VIDEO button on the remote control repeatedly to choose VIDEO mode. TV indicator disappears in the display window.</li> </ul>
	<ul style="list-style-type: none"> <li>The video cable is not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the video cable securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The connected TV power is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the TV.</li> </ul>
No sound.	<ul style="list-style-type: none"> <li>The equipment connected with the audio cable is not set to receive DVD/VCR Receiver signal output.</li> </ul>	<ul style="list-style-type: none"> <li>Select the correct input mode on the audio receiver so you can listen to the sound from the DVD/VCR receiver.</li> </ul>
	<ul style="list-style-type: none"> <li>The audio cables are not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the audio cables securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The power of the equipment connected with the audio cables is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the equipment connected with the audio cables.</li> </ul>
The playback picture is poor.	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
	<ul style="list-style-type: none"> <li>Tape heads are dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean video heads.</li> </ul>
	<ul style="list-style-type: none"> <li>Tape is a rental or was recorded on another VIDEO.</li> </ul>	<ul style="list-style-type: none"> <li>Use CH/PRESET (+/-) for manual tracking adjustment while tape is playing.</li> </ul>
The DVD/VCR Receiver does not start playback.	<ul style="list-style-type: none"> <li>No disc is inserted.</li> <li>No tape is inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)</li> </ul>
	<ul style="list-style-type: none"> <li>An unplayable disc is inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type, color system, and Regional code.)</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is placed upside down.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc with the playback side down.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is not placed within the guide.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc on the disc tray correctly inside the guide.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
	<ul style="list-style-type: none"> <li>The Rating level is set.</li> </ul>	<ul style="list-style-type: none"> <li>Cancel the Rating function or change the rating level.</li> </ul>
Forward Skip is not available during DVD playback.	<ul style="list-style-type: none"> <li>The current chapter is last of the current title.</li> </ul>	<ul style="list-style-type: none"> <li>Move to next title using DVD on-screen display (See page 20).</li> </ul>
The remote control does not work properly.	<ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor of the DVD/VCR Receiver.</li> </ul>	<ul style="list-style-type: none"> <li>Point the remote control at the remote sensor of the DVD/VCR Receiver.</li> </ul>
	<ul style="list-style-type: none"> <li>The remote control is too far from the DVD/VCR Receiver.</li> </ul>	<ul style="list-style-type: none"> <li>Operate the remote control within 7 m (23 ft).</li> </ul>
	<ul style="list-style-type: none"> <li>There is an obstacle in the path of the remote control and the DVD/VCR Receiver.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the obstacle.</li> </ul>
	<ul style="list-style-type: none"> <li>The batteries in the remote control are exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> </ul>
	<ul style="list-style-type: none"> <li>This remote control uses the same buttons for VIDEO and DVD functions (ex. PLAY).</li> </ul>	<ul style="list-style-type: none"> <li>When using a VIDEO, first press the VIDEO button. When using a DVD, first press the DVD button.</li> </ul>

## Troubleshooting (Continued)

Symptom	Cause	Correction
The tape does not run during recording.	<ul style="list-style-type: none"> <li>The DVD/VCR Receiver is in the RECORD PAUSE MODE.</li> </ul>	<ul style="list-style-type: none"> <li>Press <b>II (PAUSE)</b> to resume recording.</li> </ul>
The tape will not rewind or fast-forward.	<ul style="list-style-type: none"> <li>The tape is already fully rewound or fast-forwarded.</li> </ul>	<ul style="list-style-type: none"> <li>Check the tape.</li> </ul>
The playback picture does not appear while the tape is running.	<ul style="list-style-type: none"> <li>If you're using only the RF cable for connection.</li> </ul>	<ul style="list-style-type: none"> <li>Set the TV to the Video channel (see page 15).</li> </ul>
Noise appears during visual search.	<ul style="list-style-type: none"> <li>This is normal.</li> </ul>	<ul style="list-style-type: none"> <li>Turn camcorder on and operate properly.</li> </ul>
Noise appears during normal playback.	<ul style="list-style-type: none"> <li>The automatic tracking mode is engaged.</li> </ul>	<ul style="list-style-type: none"> <li>Try manual tracking (see page 24).</li> </ul>
Breaks are noticeable in Hi-Fi soundtrack.	<ul style="list-style-type: none"> <li>The automatic tracking mode is engaged.</li> </ul>	<ul style="list-style-type: none"> <li>Try manual tracking (see page 24).</li> </ul>
Recording cannot be started.	<ul style="list-style-type: none"> <li>There is no tape loaded, or the tape loaded has had its record safety tab removed.</li> <li>DVD and VIDEO is working simultaneously.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a tape, or using adhesive tape, cover the hole where the tab was removed.</li> <li>Set the function mode to VIDEO mode by pressing DVD/VCR on the front panel or VIDEO on the remote control. Press <b>■ (STOP)</b> to stop the working then press REC.</li> </ul>
Tape-to-tape editing is not possible.	<ul style="list-style-type: none"> <li>The source (another VIDEO, camcorder) has not been properly connected.</li> </ul>	<ul style="list-style-type: none"> <li>Confirm that the camcorder is properly connected.</li> </ul>
Timer recording won't work.	<ul style="list-style-type: none"> <li>The clock/or the timer have been set incorrectly.</li> <li>The timer is not engaged.</li> <li>The loaded tape has had its record safety tab removed.</li> </ul>	<ul style="list-style-type: none"> <li>Re-perform the clock and/or timer settings.</li> <li>Press <b>I / ⏻</b> and confirm that the timer indicator is displayed on the DVD/VCR Receiver's Display.</li> <li>Insert a tape with adhesive tape, or insert a tape with the record safety tab intact.</li> </ul>
PLEASE CHECK appears when entering VIDEO Plus+ programming number.	<ul style="list-style-type: none"> <li>Incorrect the VIDEO Plus+ programming number.</li> </ul>	<ul style="list-style-type: none"> <li>Re-enter the VIDEO Plus+ programming number.</li> </ul>
No Hi-Fi sound.	<ul style="list-style-type: none"> <li>Audio mode is not set properly.</li> </ul>	<ul style="list-style-type: none"> <li>Select "STEREO" by repeatedly pressing <b>AUDIO</b> on the remote control.</li> </ul>
No NICAM sound recording.	<ul style="list-style-type: none"> <li>NICAM mode is not set properly.</li> </ul>	<ul style="list-style-type: none"> <li>Make sure NIC in the menu is set to "AUTO" for the station to be recorded.</li> </ul>

### Moisture Condensation

Moisture condensation can occur:	In locations where moisture condensation may occur:
<ul style="list-style-type: none"> <li>When the DVD/VCR Receiver is moved from a cold place to a warm place.</li> <li>Under extremely humid conditions.</li> </ul>	<ul style="list-style-type: none"> <li>Keep the DVD/VCR Receiver plugged into an AC power outlet with POWER On. This will help prevent condensation.</li> <li>When condensation has occurred, wait a few hours for the DVD/VCR Receiver to dry before using it.</li> </ul>

### Video Head Cleaning

The dirt accumulating on the head after a long period of time can cause the playback picture to become blurred or broken up. High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might.

## Specifications

### General

	<b>(AVD-K150G)</b>
Power requirements	AC 230 V , 50/60 Hz
Power consumption	74W
Dimensions (approx.)	430 x 98 x 386 mm (17 x 3 7/8 x 15 1/4 inches) (W x H x D)
Mass (approx.)	6.5 kg (14 lb 6 oz)
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5 % to 90 %

### DVD Section

Laser	Semiconductor laser (Wavelength DVD: 650nm, CD: 780nm)
Signal system	PAL
Frequency response	DVD (PCM 48 kHz): 10 Hz to 22 kHz CD: 10 Hz to 20 kHz
Signal-to-noise ratio	More than 80 dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.05%

### VIDEO Section

Head system	4 heads helical scan azimuth system
Television system	PAL I colour system
Recording format	PAL
RF Modulator	UHF 22-68 (Adjustable)
Tape speed	PAL/MESECAM; 23.39 mm/s (SP), 16.69 mm/s (LP)
Maximum recording time	SP: 4 hour (E-240 tape), LP: 8 hour (E-240 tape)
Rewind time	About 180 seconds (E-180 tape)
Input level	VIDEO: 1.0 V(p-p), 75 ohms, unbalanced AUDIO: -6.0 dBm, more than 10 kohms (SCART) -6.0 dBm, more than 47 kohms (RCA) DIGITAL AUDIO IN: Optical connector x 1
Output level	VIDEO: 1.0 V(p-p), 75 ohms, unbalanced

### FM Tuner

Tuning Range	87.5 - 108.0 MHz
Intermediate Frequency	10.7 MHz

### AM Tuner

Tuning Range	522 - 1,611 kHz
Intermediate Frequency	450 kHz

## Specifications (Continued)

### Amplifier Section

Stereo mode	70W + 70W (6Ω at 1 kHz, THD 10 %)
Surround mode	Front: 70W/ch (6Ω at 1 kHz, THD 10 %)
	Center*: 70W (6Ω at 1 kHz, THD 10 %)
	Surround*: 70W/ch (6Ω at 1 kHz, THD 10 %)
	Subwoofer*: 100W (4Ω at 30 Hz, THD 10 %)
	* Depending on the sound mode settings and the source, there may be no sound output.
Inputs	AV 2, AV 3, OPTICAL IN (AV3 OPT)

### Speaker Section

#### Front/Center/Surround speakers (SS-MSP661)

Speaker system	Full range, Magnetically shielded
Speaker units	80 mm cone type
Enclosure type	Bass reflex
Rated Impedance	6 ohms
Dimensions (w/h/d) (Approx.)	120 x 122 x 100 mm (4 6/8 x 4 7/8 x 4 inches)
Mass (Approx.)	0.8 kg (1 lb 13 oz)

#### Subwoofer (SS-WMSP700)

Speaker system	Magnetically shielded
Speaker units	200 mm cone type
Enclosure type	Acoustically loaded bass reflex
Rated Impedance	4 ohms
Dimensions (w/h/d) (Approx.)	270 x 325 x 333 mm (10 6/8 x 12 7/8 x 13 1/8 inches) including front panel
Mass (Approx.)	6.5 kg (14 lb 6 oz)

### Accessories

Scart cable .....	1	RF 75-ohm Coaxial Cable .....	1
Speakers .....	6	Speaker cables .....	6
Speaker color label .....	1	Speaker foot (for satellite speaker) .....	.20
AM loop antenna .....	1	FM antenna .....	1
Remote control .....	1	Batteries .....	.2
Ferrite Core .....	1		

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