

DENON

DVD AUDIO-VIDEO / SUPER AUDIO CD PLAYER

DVD-1930

OPERATING INSTRUCTIONS

MODE D'EMPLOI

BEDIENUNGSANLEITUNG

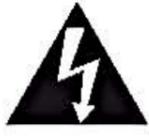
GEBRUIKSAANWIJZING

INSTRUCCIONES DE FUNCIONAMIENTO

ISTRUZIONI PER L'USO

BRUKSANVISNING

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PRECAUTIONS

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: PRINTED ON THE BACK

"CLASS 1
LASER PRODUCT"

Nonuse periods - Turn the unit off when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms.

Please read this operating instructions carefully before using your DVD video player, and keep this for future reference.

Declaration of Conformity

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.



Important

Use only discs marked with logos listed on page 6.

Power Supply

The main power supply is engaged when the main plug is plugged in a 200V-240V, 50Hz AC outlet. To operate the unit, press the **ON/STANDBY** button and turn on the unit.

INTRODUCTION

The serial number of this product may be found on the back of the DVD player. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

About Copyright

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

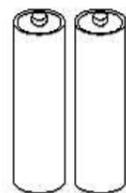
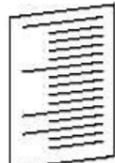
U.S. Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132.

Notice for the Progressive Scan Outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 480(525) or 576(625) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 480p(525p) or 576p(625p) DVD player, please contact our customer service centre.

Supplied Accessories

Please check to make sure the following items are included with the main unit in the carton.

Remote control 1 	"R6P" (AA) batteries 2 	Audio cable 1 	Video cable 1 	Operating Instructions... 1 	Service Station List..... 1 
--	---	--	---	--	--

Symbols Used in this Manual

The following symbols appear below in some headings and notes in this manual, with the following meanings.

- DVD-V** : Description refers to playback of DVD-Video discs (including DVD-R/RW discs).
- DVD-A** : Description refers to playback of DVD-Audio discs.
- VCD** : Description refers to playback of Video CDs.
- Super Audio CD** : Description refers to playback of Super Audio CDs.
- CD** : Description refers to playback of Audio CDs.
- MP3** : Description refers to playback of discs formatted with MP3.
- JPEG** : Description refers to viewing of JPEG discs.
- WMA** : Description refers to playback of discs formatted with WMA.
- DivX®** : Description refers to playback of discs formatted with DivX®.

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Audio * 2, 3, 5		—	Digital audio	12 cm or 8 cm	
DVD-Video * 1, 2, 3, 5					
DVD-R DVD-RW * 1, 3, 4, 5, 6, 7, 8			Digital video (MPEG2) DivX®	12 cm or 8 cm	
Video CD * 1, 3, 5, 9		—	Digital video with audio		
Super Audio CD * 3, 5		—	Digital audio		
Audio CD * 3		—	Digital audio	12 cm or 8 cm	
CD-R CD-RW * 3, 4, 5, 7, 8, 10		—	Digital audio MP3 WMA*10 Digital picture (JPEG) DivX®		
Picture CD * 3, 4, 5, 7, 8		—	JPEG	12 cm	

is a trademark of DVD Format/Logo Licensing Corporation.

is trademark of Eastman Kodak Company.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

If you cannot play back a disc which bears one of the marks above, check the following notes.

- *1: This player conforms to the PAL colour system. Also you can play back discs recorded with the NTSC system via a PAL system TV set.
- *2: Certain DVD discs do not operate as described in this manual due to the intentions of the disc's producers.
- *3: Scratched or stained discs may not be played back.
- *4: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
- *5: You can play back discs which bear the marks above. If you use nonstandardised discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
- *6: Only the discs recorded in the video format and finalised can be played back. Unfinalised discs cannot be played back. Depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may be distorted, etc.).
- *7: If there is too much recordable space left on a disc (the used portion is less than 55mm across), it may not be played back properly.
- *8: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.
- *9: This unit conforms to ver.1.1 and ver.2.0 of Video CD standard, with PBC function.
Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.
Ver.2.0 (with PBC function): While using a Video CD with PBC function, "Pbc" appears on the screen and the display.
NOTE: When playing back Video CDs with PBC function, some operations (e.g., track search and repeat tracks) cannot be performed. Cancel PBC function temporarily to perform those operations (refer to page 17).
- *10: This player cannot play back the disc contents protected by Windows Media Digital Rights Management (DRM).

What is PBC? "PBC" stands for Playback Control.

You can play back interactive software using menu screens. Refer to instructions in the Video CD.

- **NEVER play back the following discs. Otherwise, malfunction may result!**
 DVD-RAM / CD-i / Photo CD / DVD with region codes other than 2 or ALL / DVD-ROM for personal computers / CD-ROM for personal computers
 • Any other discs without compatibility indications

CAUTION:

- Use caution not to pinch your finger in the disc slot.
- Be sure to remove a disc and unplug the AC power cord from the outlet before carrying the DVD player.

• **Progressive Scan system**

The progressive scan system provides less flickering and images in higher resolution than that of traditional 480i (525i), 576i(625i) or multi television signals through the interlace scan system.

• **Analogue 5.1-channel Dolby and DTS surround output**

This player is equipped with analogue Multi-channel Dolby and DTS surround audio out jacks for playback.

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

You can enjoy clearer video output when connecting this player to a display equipment with an HDMI-compatible port.

• **Dialog Speed**

Playback in slightly faster or slower speed while keeping the sound quality as in the normal playback.

Dialog speed is available only on discs recorded in the Dolby Digital format.

• **Still/Fast/Slow/Step playback**

Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

• **Still Mode**

The resolution of pictures while in the still (pause) mode is adjusted.

• **Random Playback for Super Audio CD, Audio CD, MP3, JPEG, DVD-Audio and WMA**

This player can shuffle the playback order of tracks in random sequence.

• **Programme Playback for Super Audio CD, Audio CD, MP3, JPEG, DVD-Audio and WMA**

You can programme the playback order of tracks in a desired sequence.

• **DVD menus in a desired language**

You can display DVD menus in a desired language if the language is available on the DVD.

• **Auto Power Off**

The power turns off automatically if there is no activity at the player or its remote control for more than 30 minutes (refer to page 33).

• **Subtitles in a desired language**

You can select a language for subtitles if the language is available on the DVD and DivX®.

• **Selecting a camera angle**

You can select a desired camera angle if a disc contains sequences recorded from different angles.

• **Choices for audio language and sound mode**

You can select a desired audio language and sound mode if different languages and modes are available on the disc.

• **Ratings Control (Parental lock)**

You can set the control level to limit playback of discs which may not be suitable for children.

• **Super Audio CD multi-channel playback compatibility**

In addition to playing DVD-Video and DVD-Audio discs, this player can play multi-channel Super Audio CDs with a playback frequency range covering 100kHz and a dynamic range of 120dB or greater within the audible frequency range, and a maximum of 5.1 channels can be output.

• **Automatic detection of discs**

This player automatically detects if a loaded disc is DVD-Video, DVD-Audio, Video CD, Super Audio CD, Audio CD, MP3, JPEG, WMA or DivX®.

• **Playing back an MP3 disc**

You can enjoy MP3 files which are recorded on CD-R/RW.

• **Direct Search**

You can search a desired title, chapter, and track with numeric button during playback or in stop mode.

• **On-screen display**

Information about the current operation can be displayed on the TV screen, allowing you to confirm the currently active functions (such as programme playback), using the remote control.

• **Dimmer**

The brightness of the display can be adjusted.

• **Screen Saver**

The screen saver programme starts if there is no activity at the player or its remote control for more than 5 minutes. The brightness of the display is darkened by 75%. The programme is inactivated when there is any activity.

• **Picture Control**

Picture Control adjusts brightness, contrast, colour, gamma correction and sharpness of the specific display.

• **Search**

Chapter search: Search for a desired chapter.

Title search: Search for a desired title.

Group search: Search for a desired group.

Page search: Search for a desired page.

Track search: Search for a desired track.

Time search: Search for a desired time point of a title or track.

• **Repeat**

Chapter: Repeated playback of a chapter of the disc.

Title: Repeated playback of a title of the disc.

Track: Repeated playback of a track of the disc.

All: Repeated playback of the entire disc. (exclude DVD-Video)

A-B: Repeated playback of a part between two points.

Group: Repeated playback of a folder of the DVD-Audio/MP3/JPEG/WMA/DivX® disc.

• **Zoom**

2-time or 4-time magnified image can be displayed.

• **Marker**

Electronic reference point designated by user can be called back.

• **Resume Playback**

You can resume playback from the point at which the playback has been stopped.

• **Component Video Out Jacks**

Jacks located on the back of the DVD Player which are used to send high-quality video to a TV via Component Video In Jacks.

• **Bit rate indication**

• **DRC (Dynamic Range Control)**

You can control the range of sound volume.

• **MPEG sound**

This player can handle a disc that supports MPEG audio when it is connected to an MPEG decoder.

• **Displaying a JPEG picture**

Kodak Picture CDs can be played back. Still images stored in JPEG format on CD-R/RW can also be played back.

• **Reproducing WMA data**

You can enjoy WMA files which are recorded on CD-R/RW.

• **Reproducing DivX® data**

You can enjoy DivX® files which are recorded on DVD-R/RW or CD-R/RW.

- Official DivX® Certified product

- Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.

• **Pure Direct**

The sound quality of analogue audio output is improved by turning off HDMI output, video signal output, and the front panel display.

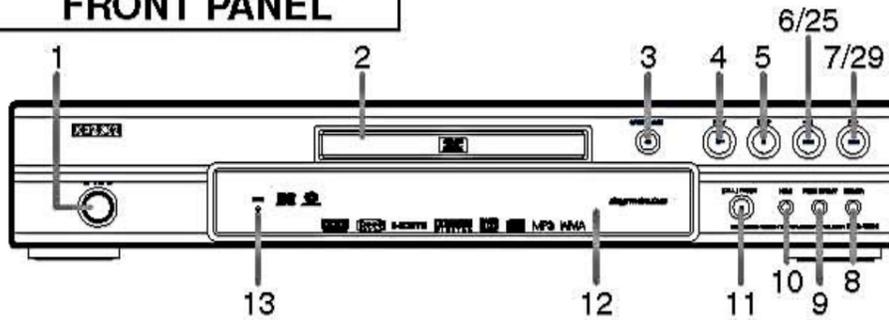
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

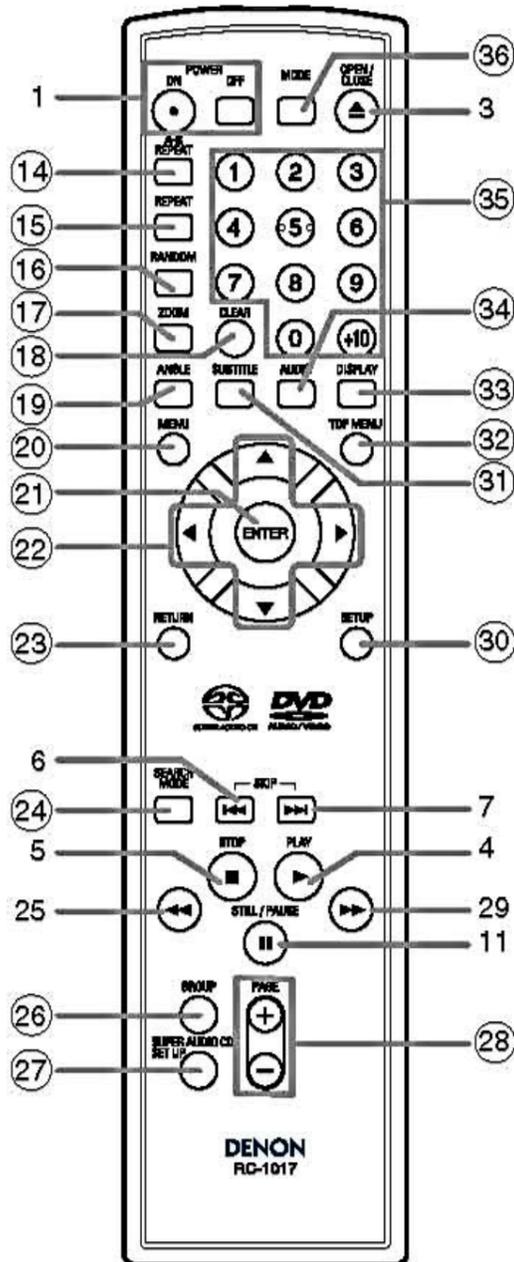
"WMA" (Windows Media Audio) is an audio codec developed by Microsoft® in the United States of America.

FUNCTIONAL OVERVIEW

FRONT PANEL



REMOTE CONTROL



The buttons with circled numbers can only be operated with the remote control.

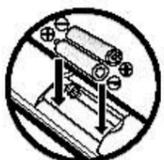
1. **ON/STANDBY (POWER ON/OFF) Buttons** [page 17]
2. **Disc loading tray**
3. **OPEN/CLOSE Button** [page 17]
4. **PLAY Button** [page 17]
5. **STOP Button** [page 17]
6. **◀◀(SKIP DOWN) Button** [page 20]
7. **▶▶(SKIP UP) Button** [page 20]
8. **DIMMER Button** [page 17]
9. **PURE DIRECT Button** [page 17]
Press to activate Pure Direct function to reduce noise level.
10. **HDMI Button** [page 17]
Press to set the HDMI connector's video signal output mode.
11. **STILL/PAUSE Button** [page 18]
12. **Display, Remote Sensor Window**
13. **HDMI indicator** [page 17]
Lights up when there is video signal output from the HDMI OUT jack.
14. **A-B REPEAT Button** [page 22]
15. **REPEAT Button** [page 21]
16. **RANDOM Button** [page 23]
17. **ZOOM Button** [page 20]
18. **CLEAR Button** [page 21]
19. **ANGLE Button** [page 28]
20. **MENU Button** [page 18]
21. **ENTER Button** [page 18]
22. **Cursor Buttons** [page 18]
23. **RETURN Button** [page 18]
24. **SEARCH MODE Button** [page 20]
25. **◀◀(Fast Reverse SEARCH) Button** [page 19]
Press more than 2 seconds when you use the front panel button for this function.
26. **GROUP Button** [page 18]
27. **SUPER AUDIO CD SET UP Button** [page 28]
28. **PAGE Buttons** [page 18]
29. **▶▶(Fast Forward SEARCH) Button** [page 19]
Press more than 2 seconds when you use the front panel button for this function.
30. **SETUP Button** [page 29]
31. **SUBTITLE Button** [page 27]
32. **TOP MENU Button** [page 18]
33. **DISPLAY Button** [page 26]
34. **AUDIO Button** [page 27]
35. **Numeric Buttons** [page 17]
36. **MODE Button** [page 18]

Loading the Batteries

1. Open the battery compartment cover.



2. Insert two "R6P" (AA) batteries, with each one oriented correctly.



3. Close the cover.



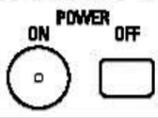
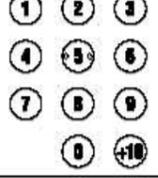
Cautions On Batteries

- Use "R6P" (AA) batteries in this remote control unit.
- Replace the batteries with new ones approximately once a year, though this depends on the frequency with which the remote control unit is used.
- If the remote control unit does not function within a close proximity of the main unit, replace the batteries with new ones, even if less than a year has passed.
- The included batteries are only for verification purpose. Replace them with new batteries as soon as possible.
- When inserting the batteries, be careful to do so in the proper direction, following the ⊕ and ⊖ marks in the remote control unit's battery compartment.
- To prevent damage or battery fluid leakage:
 - Do not mix a new battery with an old one.
 - Do not mix two different types of batteries such as alkaline and manganese.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries when not planning to use the remote control unit for a long period of time.
- If the batteries should leak, carefully wipe off the fluid from the inside of the battery compartment, then insert new batteries.

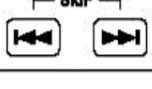
Tour of the Remote Control

Buttons on remote control work in different ways for DVD-Video, DVD-Audio, Video CD, Super Audio CD, Audio CD, MP3, JPEG, WMA and DivX®.

Refer to the following table for correct use.

	DVD-Video, DVD-Audio	VCD	Super Audio CD, CD, MP3, JPEG, WMA	DivX®
POWER ON/OFF Buttons 	<ul style="list-style-type: none"> To turn on or standby the unit. 	<ul style="list-style-type: none"> To turn on or standby the unit. 	<ul style="list-style-type: none"> To turn on or standby the unit. 	<ul style="list-style-type: none"> To turn on or standby the unit.
A-B REPEAT Button 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback. 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback. 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback. (Super Audio CD, CD) 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback.
REPEAT Button 	<ul style="list-style-type: none"> To repeat playback of a title, chapter, group or track. 	<ul style="list-style-type: none"> To repeat playback of a track or disc. 	<ul style="list-style-type: none"> To repeat playback of a track or disc. (Super Audio CD, CD) To repeat playback of a track, group, or disc. (MP3, JPEG, WMA) 	<ul style="list-style-type: none"> To repeat playback of a track, group or disc.
RANDOM Button 	<ul style="list-style-type: none"> To shuffle the playing order of groups and tracks. (DVD-Audio) 	—	<ul style="list-style-type: none"> To play back tracks in random order. 	—
MODE Button 	<ul style="list-style-type: none"> To set Picture Control. To activate the 3D sound (Virtual surround system). To set Dialog Speed. To programme a specific playback order. (DVD-Audio) To play all groups. (DVD-Audio) 	<ul style="list-style-type: none"> To activate the 3D sound (Virtual surround system). To set Picture Control. 	<ul style="list-style-type: none"> To programme a specific playback order. To activate the 3D sound (Virtual surround system). (CD, MP3, WMA) To activate the Slide Show mode. (JPEG) 	<ul style="list-style-type: none"> To set Picture Control.
ZOOM Button 	<ul style="list-style-type: none"> To magnify part of the picture (x2/x4). (DVD-Video) 	<ul style="list-style-type: none"> To magnify part of the picture (x2). 	<ul style="list-style-type: none"> To magnify part of the picture (x2). (JPEG) 	<ul style="list-style-type: none"> To magnify part of the picture (x2).
ANGLE Button 	<ul style="list-style-type: none"> To access various camera angles on the disc. 	—	<ul style="list-style-type: none"> To rotate a picture. (JPEG) 	—
SUBTITLE Button 	<ul style="list-style-type: none"> To select a subtitle language on the disc. 	—	—	<ul style="list-style-type: none"> To select a subtitle language on the disc.
AUDIO Button 	<ul style="list-style-type: none"> To access various audio functions on the disc. 	<ul style="list-style-type: none"> To select STEREO, L-ch or R-ch. 	<ul style="list-style-type: none"> To select STEREO, L-ch or R-ch. (CD) 	<ul style="list-style-type: none"> To access various audio functions on the disc.
DISPLAY Button 	<ul style="list-style-type: none"> To display the current disc or HDMI mode. 	<ul style="list-style-type: none"> To display the current disc or HDMI mode. 	<ul style="list-style-type: none"> To display the current disc or HDMI mode. 	<ul style="list-style-type: none"> To display the current disc or HDMI mode.
SEARCH MODE Button 	<ul style="list-style-type: none"> To search for a title, chapter, track, time or marker. 	<ul style="list-style-type: none"> To search for a track, time or marker. 	<ul style="list-style-type: none"> To search for a track. To search for time or a marker. (Super Audio CD, CD) 	<ul style="list-style-type: none"> To search for a track or time.
OPEN/CLOSE Button 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray.
Numeric Buttons 	<ul style="list-style-type: none"> To select a title, chapter, group or track directly. 	<ul style="list-style-type: none"> To select a track directly. 	<ul style="list-style-type: none"> To select a track directly. 	<ul style="list-style-type: none"> To select a track directly.

Tour of the Remote Control

	DVD-Video, DVD-Audio	VCD	Super Audio CD, CD, MP3, JPEG, WMA	DivX®
CLEAR Button 	<ul style="list-style-type: none"> To clear the markers. To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. 	<ul style="list-style-type: none"> To clear the markers. To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. 	<ul style="list-style-type: none"> To clear the markers. (Super Audio CD, CD) To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. (Super Audio CD, CD) 	<ul style="list-style-type: none"> To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat.
MENU Button 	<ul style="list-style-type: none"> To call up the menu on a disc. 	—	<ul style="list-style-type: none"> To call up the file list. (MP3, JPEG, WMA) 	<ul style="list-style-type: none"> To call up the file list.
TOP MENU Button 	<ul style="list-style-type: none"> To call up the top menu on a disc. 	—	<ul style="list-style-type: none"> To return to the first item in the highest hierarchy of the file list. (MP3, JPEG, WMA) 	<ul style="list-style-type: none"> To return to the top file in the highest hierarchy of the file list.
ENTER, Cursor Buttons 	<ul style="list-style-type: none"> To move the cursor and determine its position. 	<ul style="list-style-type: none"> To move the cursor and determine its position. 	<ul style="list-style-type: none"> To move the cursor and determine its position. 	<ul style="list-style-type: none"> To move the cursor and determine its position.
RETURN Button 	<ul style="list-style-type: none"> To return to the previous operation in the setup menu. 	<ul style="list-style-type: none"> To return to the previous operation in the setup menu. 	<ul style="list-style-type: none"> To return to the previous operation in the setup menu. 	<ul style="list-style-type: none"> To return to the previous operation in the setup menu.
SETUP Button 	<ul style="list-style-type: none"> To call up the setup menu. 	<ul style="list-style-type: none"> To call up the setup menu. 	<ul style="list-style-type: none"> To call up the setup menu. 	<ul style="list-style-type: none"> To call up the setup menu.
SKIP Buttons 	<ul style="list-style-type: none"> To skip titles/chapters/tracks. 	<ul style="list-style-type: none"> To skip tracks. 	<ul style="list-style-type: none"> To skip tracks. 	<ul style="list-style-type: none"> To skip tracks.
SEARCH Buttons 	<ul style="list-style-type: none"> To search forward/backward through a disc. To begin slow forward/slow reverse. (DVD-Video) 	<ul style="list-style-type: none"> To search forward/backward through a disc. To begin slow forward. 	<ul style="list-style-type: none"> To begin fast forward/reverse search. (except JPEG) 	<ul style="list-style-type: none"> To search forward/backward through a disc. To begin slow forward.
STOP Button 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback.
PLAY Button 	<ul style="list-style-type: none"> To begin playback. 	<ul style="list-style-type: none"> To begin playback. 	<ul style="list-style-type: none"> To begin playback. 	<ul style="list-style-type: none"> To begin playback.
STILL/PAUSE Button 	<ul style="list-style-type: none"> To pause playback. To advance playback frame by frame. 	<ul style="list-style-type: none"> To pause playback. To advance playback frame by frame. 	<ul style="list-style-type: none"> To pause playback. 	<ul style="list-style-type: none"> To pause playback. To advance playback frame by frame.
GROUP Button 	<ul style="list-style-type: none"> To begin playback from a desired group. (DVD-Audio) 	—	—	—
SUPER AUDIO CD SET UP Button 	—	—	<ul style="list-style-type: none"> To select the Super Audio CD setup. (Super Audio CD) 	—
PAGE Buttons 	<ul style="list-style-type: none"> To select a desired background display image for playback. (DVD-Audio) 	—	—	—

Front Panel Display

Lights up when the progressive scan system is activated.

Lights up when the disc playback comes to a pause.

Lights up when playing back in slow mode. (DVD, VCD)

Lights up when the inserted disc is being play back.

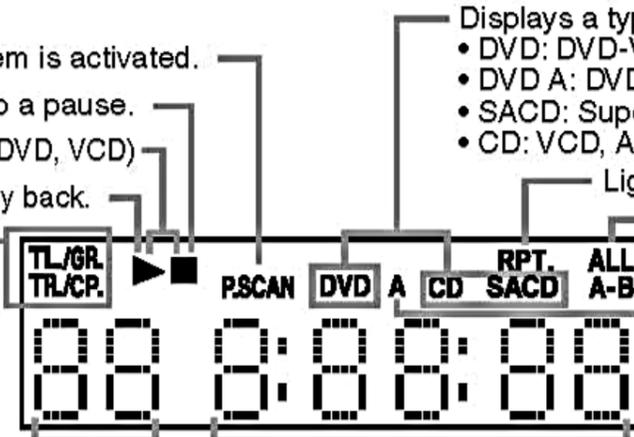
The present display state is shown.

• TL/GR.: Title or Group

• TR./CP.: Track or Chapter

To change to the display of a title please push the DISPLAY button in the state of Resume.

Displays the chapter (title) or track number. In case the chapter (title) or track number is over 100, displays "--".



Displays a type of the disc which is on the tray.

- DVD: DVD-Video, DivX®
- DVD A: DVD-Audio
- SACD: Super Audio CD
- CD: VCD, Audio CD, MP3, JPEG, WMA, DivX®

Lights up when the repeat function is on.

Lights up when the ALL repeat function is on.

Lights up when the A-B repeat function is on.

Lights up when you have selected the audio file (CD/MP3/WMA/Super Audio CD/DVD-Audio) on the programme screen.

Displays the elapsed time of the chapter (title) or track. (The display of 10 hours or more cannot be performed.) Selected HDMI output mode is displayed.

Displays during Operation

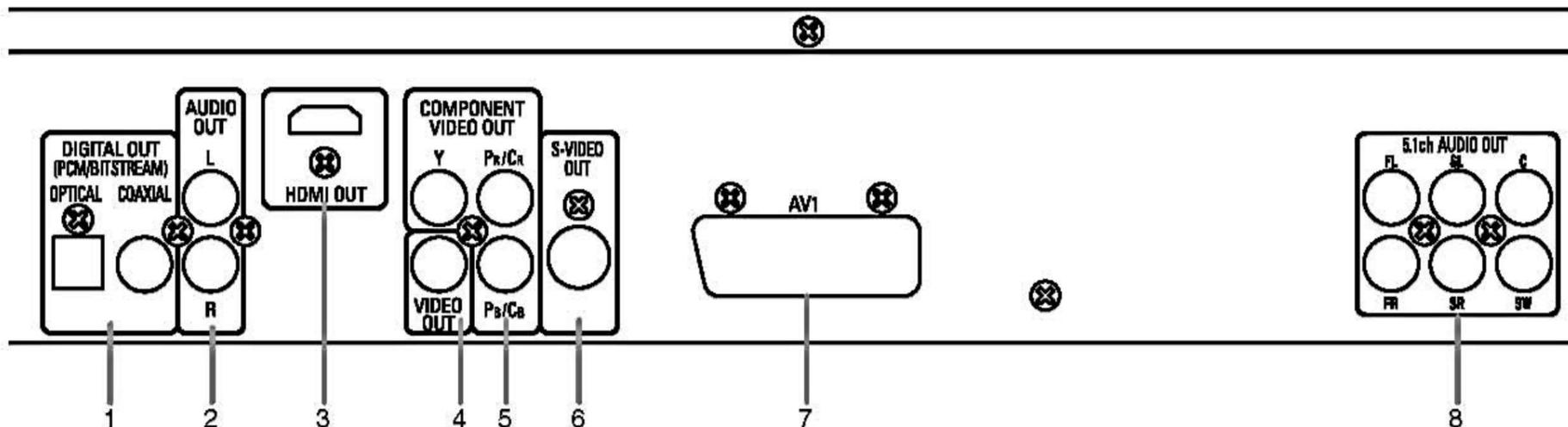
00 0:00:00	Power on
00 0:00:00	Power off
00 0:00:00	Tray open
00 0:00:00	Tray closed
00 0:00:00	Loading the Disc
00 0:00:00	No disc inserted or cannot read
00 4:00:00	HDMI output mode (480p/576p) is selected. (576p is displayed after 480p)
00 0:00:00	HDMI output mode (720p) is selected
00 0:00:00	HDMI output mode (1080i) is selected
00 0:00:00	HDMI output mode (1080p) is selected
00 0:00:00	HDMI output mode (OFF) is selected

00 0:00:00	Super Audio CD setup (2CH AREA) selected
00 0:00:00	Super Audio CD setup (MULTI-CH AREA) selected
00 0:00:00	Programme playback is set
00 0:00:00	Programme playback setting group (folder) is selected
00 0:00:00	Programme playback setting ALL CLEAR is selected
00 0:00:00	Random playback is set
00 0:00:00	All group playback setting

NOTES:

- The front panel display has blinked while setting the programme playback.
- "P**-●●●" is displayed in the front panel display while setting the programme playback. ("**" is programme number, "●●●" is track number.)
- "A" is displayed in front panel display while selecting the audio file (CD, MP3, WMA, Super Audio CD, DVD-Audio).
- "F-****" is displayed in the front panel display while selecting the group (folder). ("****" is group (folder) number.)
- "A-CLEAR" is displayed in the front panel display while selecting ALL CLEAR.
- "SHUFFLE" is displayed in the front panel display while setting the random playback.
- "A-PLAY" is displayed in the front panel display while setting the all group playback.

Description - Rear Panel



1. DIGITAL OUT Jacks (OPTICAL, COAXIAL)

Use either an optical or coaxial digital cable (commercially available) to connect to an AV amplifier with a built-in decoder (AV control centre).

2. AUDIO OUT Jacks

Use an Audio cable to connect to the Audio input jacks of A/V-compatible TV, wide screen TV or Stereo system.

3. HDMI OUT Jack

Use an HDMI connection cable (commercially available) to connect to a display with an HDMI compatible port.

4. VIDEO OUT Jack

Use a video cable to connect one of the jacks to Video input on your A/V-compatible TV, wide screen TV or Stereo system.

5. COMPONENT VIDEO OUT Jacks

Use a Component Video cable (commercially available) to connect these jacks if you have a TV with Component Video in jacks. These jacks provide C_B/P_B, C_R/P_R and Y video. Along with S-Video, Component Video provides the best quality picture.

6. S-VIDEO OUT Jack

Use an S-Video cable (commercially available) to connect this jack to the S-Video jack on your A/V-compatible TV or wide screen TV for a higher quality picture.

7. AV1 Jack

Use a Scart cable (commercially available) to connect to the 21-pin scart jack of a TV.

8. 5.1ch AUDIO OUT Jacks

Use speaker cables (commercially available) to connect these jacks to the 5.1ch Audio input jacks of your AV amplifier with 5.1-channel input terminals.

NOTE:

- When changing the VIDEO OUT setting (SCART, COMPONENT INTERLACE or COMPONENT PROGRESSIVE), connect to a Video jack or an S-Video jack on the TV. If the setting is changed, for example, to SCART while Component Video jacks are connected to the TV, a distorted video signal may be output (refer to page 29).

CAUTION:

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

Selecting Progressive Scan (480p/576p or Interlaced 480i/576i) Playback

- If your TV is compatible with progressive scanning (480p/576p), connect the TV to the COMPONENT VIDEO OUT jacks of the DVD player and set VIDEO OUT to COMPONENT PROGRESSIVE in the display setting. Next, set your TV to the progressive scan mode. Refer to page 29 for instructions on changing the display setting. P.SCAN will appear on the display of the unit.
- If your TV is not compatible with progressive scan, set VIDEO OUT to COMPONENT INTERLACE by changing the display setting (refer to page 29). Make sure that P.SCAN on the display of the unit lights off.
- Use a commercially available adaptor if the video input jacks of your TV or monitor is the BNC type.

What is Progressive Scanning?

- Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (480i/576i) television signals.

The DCDi (Directional Correlational Deinterlacing) system of this DVD player produces smooth and natural video images, even if really dynamic, by eliminating the jagged edges. *DCDi is a trademark of Faroudja, a division of Genesis Microchip Inc.

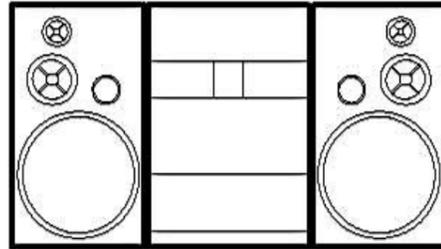
The following shows examples of connections commonly used to connect the DVD player to TV and other components. If using this DVD player to play back a DVD in a Dolby Digital Multi-channel surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its OPTICAL or COAXIAL DIGITAL OUT jacks. By connecting the player to a Dolby Digital, DTS or MPEG decoder, you can enjoy more convincing, realistic ambience with powerful and high-quality surrounding sound of a professional standard which can be heard in movie theatres. Use an Optical (commercially available) or Audio Coaxial Digital cable (commercially available) for the audio connections.

NOTES:

- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Instruction Manuals for your TV, stereo system and any other components to be connected to the DVD player.

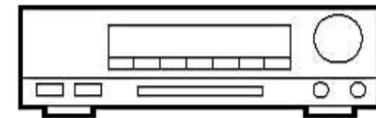
Connection to an Audio System

Method 1



Stereo system

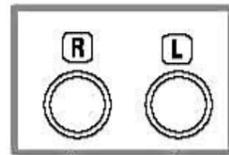
Method 2



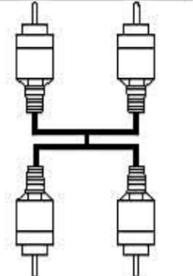
AV amplifier with a built in decoder (AV control centre), Dolby Digital decoder, DTS decoder, MPEG decoder, MD deck or DAT deck

AUDIO

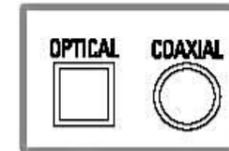
Audio Input Jacks



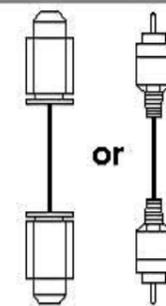
Audio cable (supplied)



Digital Audio Input Jacks



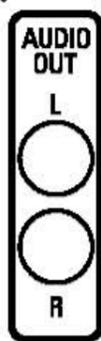
Optical cable (commercially available)



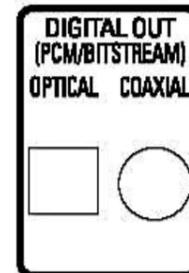
Audio Coaxial Digital cable (commercially available)

DVD

AUDIO OUT (analogue)



DIGITAL OUT



- **Method 1** DVD Player + Stereo system
- **Method 2** DVD Player + AV amplifier with a built in decoder (AV control centre), Dolby Digital decoder, DTS decoder, MPEG decoder, MD deck or DAT deck

NOTES (for Method 2 only):

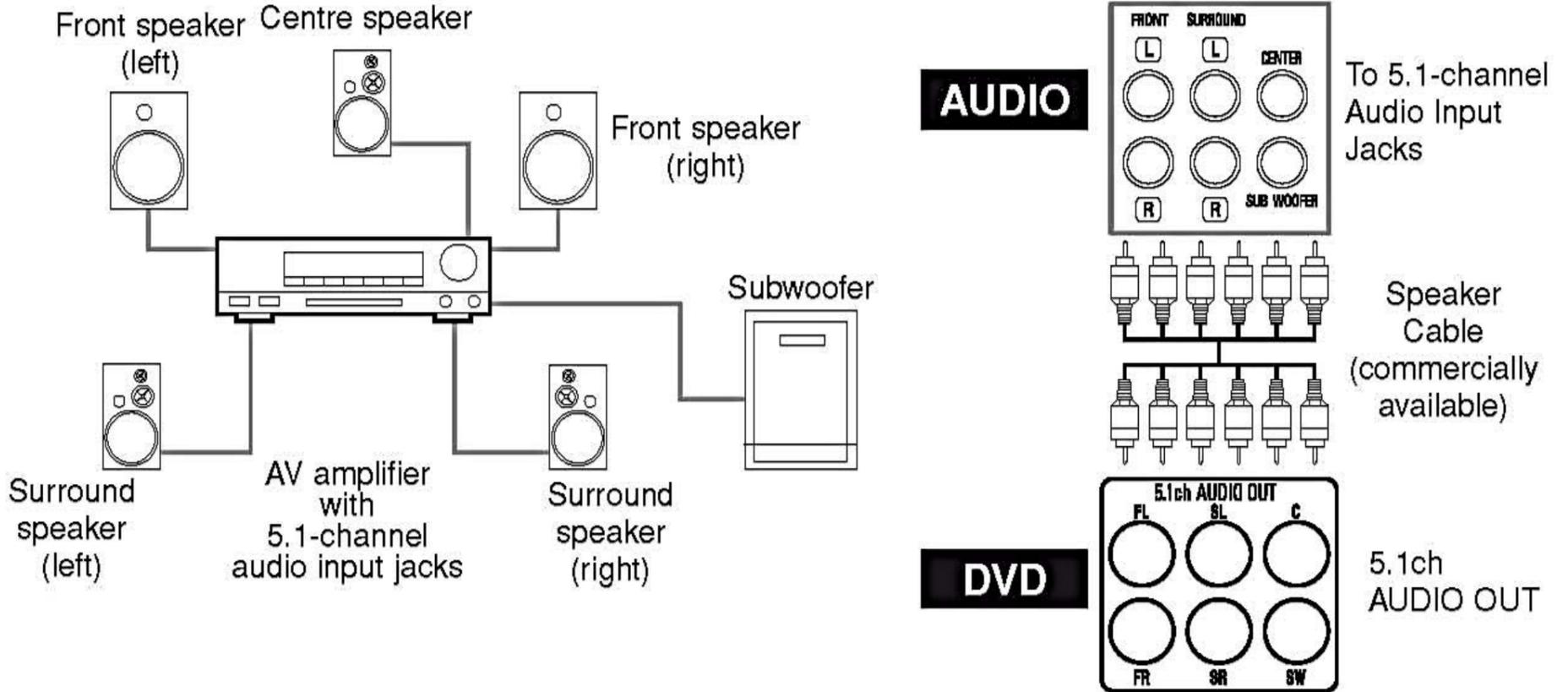
- When using an AV amplifier with a built-in decoder (AV control centre), Dolby Digital, DTS, or MPEG decoder as shown in the Method 2, set DOLBY DIGITAL, DTS or MPEG to BITSTREAM accordingly for audio output in the setup menu (refer to page 30). Set it to PCM for the decoder that is not used currently. Playing back a DVD using incorrect settings may generate noise distortion, and may also damage the speakers.
- The audio source on a disc in a Dolby Digital Multi-channel surround format cannot be recorded as digital sound by an MD deck or DAT deck.
- Set DOLBY DIGITAL, DTS and MPEG to PCM, for audio output in the setup menu for connecting to an MD deck or DAT deck (refer to page 30).
- Harsh noise that could harm your ears or the speakers is generated when a DVD recorded in DTS is played back while using a decoder, etc., that is not DTS-compatible.
- When playing back a copyright-protected 96kHz (88.2kHz) linear PCM DVD, the digital sound will be down sampled at 48kHz (44.1kHz), even if you set LPCM SELECT to OFF (refer to page 30).
- Super Audio CD sound is not output from the DIGITAL OUT jacks.

Optical cable (commercially available)

- Optical cable (commercially available) may be damaged when bent at sharp angles. Ensure cables are coiled in loops with a diameter of 15 cm or more when storing them.
- Use a cable which is 3 m or shorter.
- Insert cable plugs firmly into the connectors when making connections.
- If a plug has dust or is dirty, clean it with a soft cloth before inserting it into a connector.

Connection to 5.1-channel Surround Sound System

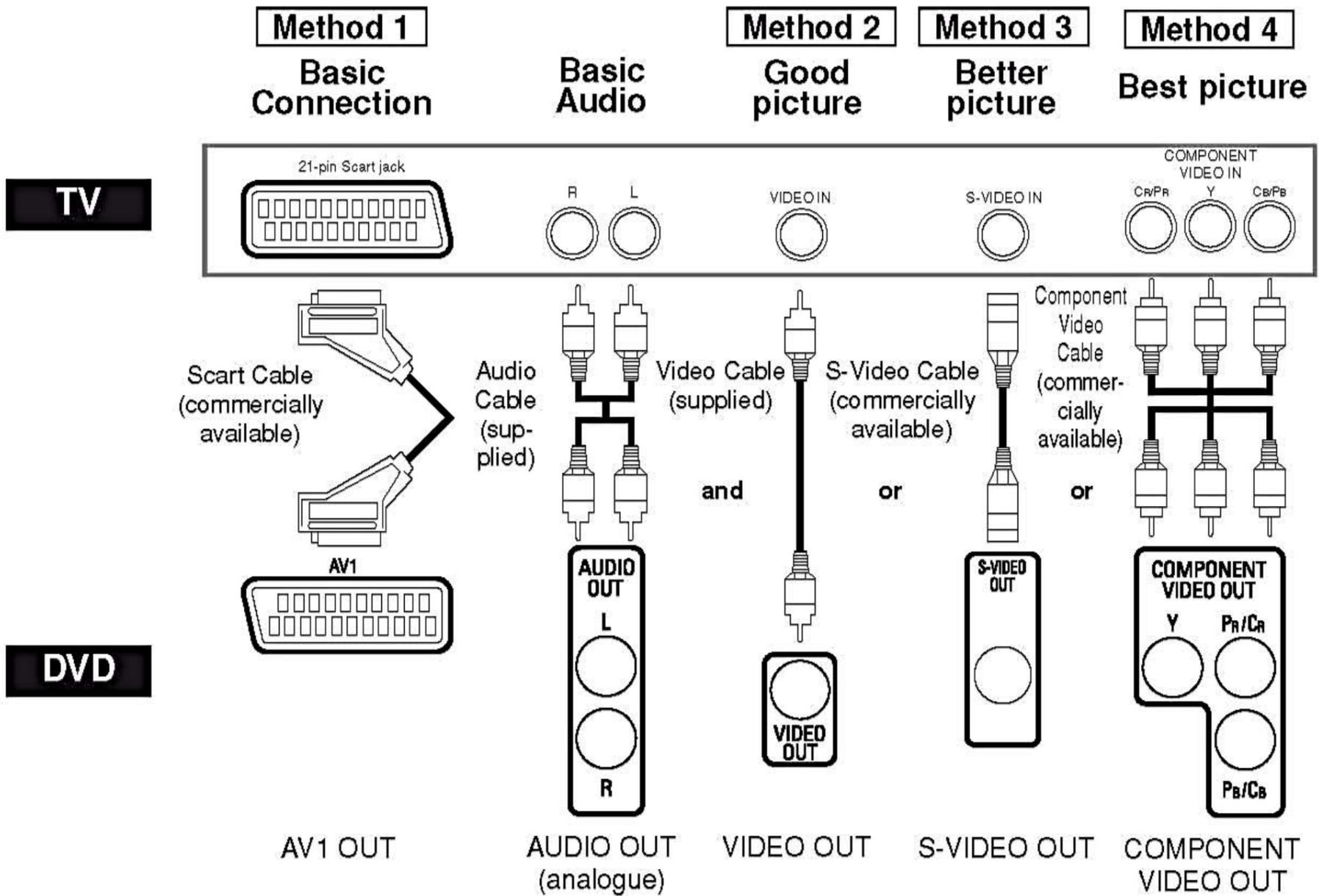
Analogue 5.1-channel audio signals can be output from the DVD player. The multichannel audio signals recorded in packed PCM and the multichannel Super Audio CD can be played back when an AV amplifier equipped with analogue 5.1-channel audio inputs is connected.



NOTES:

- For 5.1-channel connections, set ANALOG AUDIO to MULTI CHANNEL in the setup mode and adjust Speaker Configuration, DELAY TIME and CHANNEL LEVEL settings (refer to pages 31-32).
- You can enjoy high-quality analogue sound by cutting off the video signal. Press the **PURE DIRECT** button on the front panel.

Connection to a TV (for video)



- **Method 1** DVD Player + TV with 21-pin Scart Input Jack
- **Method 2** DVD Player + TV with Video Input Jack
- **Method 3** DVD Player + TV with S-Video Input Jack
- **Method 4** DVD Player + TV with Component Video Input Jacks

NOTES:

- Connect the DVD player directly to a TV. If the Audio/Video cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- S-Video output connector
The video signals are divided into colour (C) and brightness (Y) signals, achieving a clearer picture. If the TV is equipped with an S-Video input connector, we recommend connecting it to this unit's S-Video output connector using a commercially available S-Video connection cord.

HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS

Even if your TV does not have RCA type audio and video input jacks, it is still possible to connect this DVD player to your TV's 75 ohm coaxial antenna terminal using an optional Stereo Audio/Video RF Modulator (commercially available). Connect the audio and video outputs of the DVD player to the audio and video inputs on the RF Modulator, and then connect the coaxial output of the RF Modulator (usually marked "TO TV") to the 75 ohm coaxial antenna terminal on your TV. Follow the instruction supplied with the RF Modulator for more details. If your TV's 75 ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna terminal as described above.

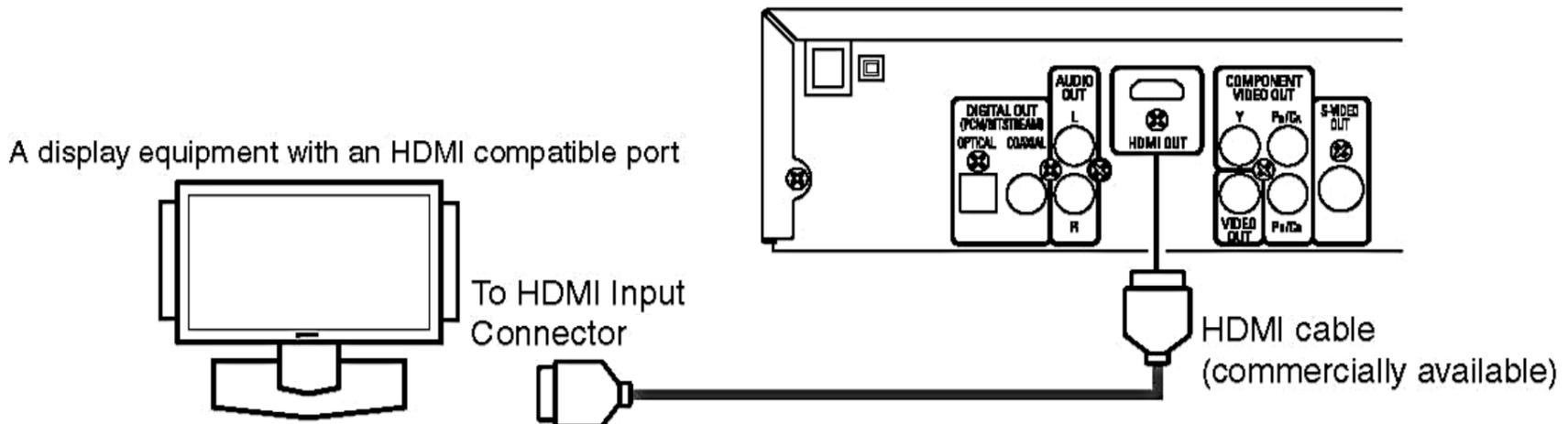
NOTE:

- The picture quality from DVD discs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.

CONNECTIONS

Connection to a TV with an HDMI Compatible Port

A simple 1-cable connection (using a commercially available cable) with a device having an HDMI (High-Definition Multimedia Interface) connector allows digital transfer of the digital images of DVD-Video and other sources, DVD-Video, and the multi-channel sound of DVD-Audio.



Actual output modes by media

Audio Recording Format		HDMI AUDIO Setting			
		2 CHANNEL		MULTI CHANNEL	
		DOLBY DIGITAL/DTS/MPEG Setting		DOLBY DIGITAL/DTS/MPEG Setting	
		BITSTREAM *1	PCM	BITSTREAM *1	PCM *2
DVD-Video	Dolby Digital	Dolby Digital	2 channel PCM	Dolby Digital	Multi PCM
	DTS	DTS	2 channel PCM	DTS	Multi PCM
	MPEG	MPEG	2 channel PCM	MPEG	Multi PCM
	LPCM	2 channel PCM	2 channel PCM	Multi PCM	Multi PCM
DVD-Audio	LPCM or PPCM (with CPPM) *3 *5	2 channel PCM	2 channel PCM	Multi PCM	Multi PCM
	LPCM or PPCM (without CPPM)	2 channel PCM	2 channel PCM	Multi PCM	Multi PCM
DivX®	Dolby Digital	Dolby Digital	2 channel PCM	Dolby Digital	2 channel PCM
	MP3/MP2	2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
Audio CD		2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
Video CD		2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
MP3/WMA		2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
Super Audio CD	MULTI-CH AREA *4	×	×	×	×
	2CH AREA *4	×	×	×	×
	CD AREA	2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM

*1 If the connected equipment is not compatible with HDMI BITSTREAM, signals are output on PCM.

*2 If the connected equipment is not compatible with HDMI Multi PCM, signals are output on down mixed PCM.

*3 If the connected equipment is not compatible with HDMI ver. 1.0, signals are not output.

*4 Sounds recorded on the MULTI-CH/2CH AREA of Super Audio CDs are not output.

*5 Transfer of signal from DVD audio discs that are copyright-protected by CPPM is only possible if both devices are HDMI Ver.1.1 compatible. This player is HDMI Ver.1.1 compatible.

Copyright protection system

To play back the digital video images of a DVD via an HDMI connection, it is necessary that both the player and the display equipment (or an AV amplifier) support a copyright protection system called HDCP (High-bandwidth Digital Content Protection System). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV equipment. This player supports HDCP. Please read the operating instructions of your display equipment (or AV amplifier) for more information.

*HDMI: High-Definition Multimedia Interface

NOTES:

- When using HDCP-incompatible display equipment, the image will not be viewed properly.
- When the **PURE DIRECT** button on the front panel is turned on, not only HDMI images but sounds are not output (refer to page 17).
- Among the devices that support HDMI, some devices can control other devices via the HDMI connector; however, this player cannot be controlled by another device vice the HDMI connector.
- The audio signals from the HDMI connector (including the sampling frequency, the number of channels and bit length) may be limited by the equipment that is connected.
- When playing a Super Audio CD with an HDMI connection, audio cannot be transferred beyond the CD layer. Make an analogue connection for this.
- Among the monitors that support HDMI, some do not support audio output (for example, projectors). In connections with equipment such as this, audio signals are not output from the HDMI output connector.
- When the set's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI converter cable (commercially available), the signals are output in digital RGB.

"HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."

Basic Playback



Getting started

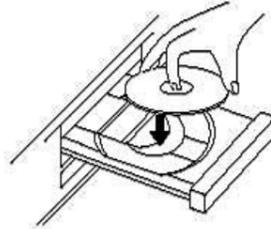
- Turn on the power of the TV, amplifier and any other components which are connected to the DVD player.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.

1 Press the **POWER ON** button.

- P-ON will appear briefly on the display panel.

2 Press the **OPEN/CLOSE** button to open disc loading tray.

3 Place the disc on the tray, with the label facing up.



4 Press the **PLAY** button.

- The tray will close automatically, then playback will start from the first chapter or track of the disc. If the playback does not start automatically, press the **PLAY** button.
- When you play back the DVD with a title menu, it may appear on the screen. In this case, refer to "Title Menu" on page 18.

5 Press the **STOP** button to stop playback.

NOTES:

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
- With DVDs that use some titles for playback programme signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you play back DVDs with disc menu or Video CDs with PBC. Refer to the manual accompanying the disc for details.



CANCELLING AND CALLING BACK PBC FUNCTION



1 Insert a Video CD.

2 Press the **STOP** button.

3 Press the **Numeric** buttons to enter the desired Track number.

- PBC function is now cancelled and the playback of the Video CD will start.

4 To call back PBC function, press the **STOP** button twice, and then press the **PLAY** button.

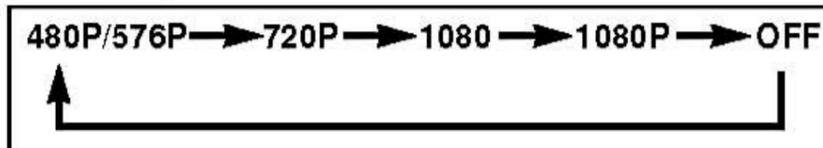
- The title menu will appear on the TV screen.

HDMI Setup

1 Press the **HDMI** button on the front panel to select the HDMI output mode.

The output mode changes as follows every time the **HDMI** button is pressed.

- The HDMI indicator on the front panel lights up when HDMI output mode is on.



480P/576P (Default) :

Video output from the HDMI OUT jack at 480p/576p.

720P: Video output from the HDMI OUT jack at 720p.

1080: Video output from the HDMI OUT jack at 1080i.

1080P: Video output from the HDMI OUT jack at 1080p.

OFF : No video outputs from the HDMI OUT connector.

NOTES:

- Video and audio signals may be distorted temporarily when switching to/from the HDMI output mode.
- Use a display equipment with an HDMI-compatible port.
- The unit is sending Progressive video signal and HDMI signal simultaneously when HDMI mode is set to ON. If you connected component video cable to your TV, which is not compatible with progressive scan, the distorted picture will be output.
- The HDMI indicator on the front panel flashes when you select the HDMI output mode but there is no HDMI cable.
- If you turn on the pure direct mode, both video and audio signals through the HDMI output will be cut off (press the **PURE DIRECT** button again to recover).
- You can check the HDMI connection status by pressing the **DISPLAY** button during playback with the HDMI output mode (refer to page 26).
- If the TV is not compatible with newly selected HDMI output mode, the actual output mode will be kept the one before changing the selection. When this occurs, the newly selected mode will appear on the front panel display (see page 11) while the actual output resolution will be indicated by performing the on-screen display as described in NOTE FOR HDMI DISPLAY on page 27.
- Actual output signals for each HDMI mode vary with the compatibility of the connected display device.
- You cannot select the HDMI output mode when the setup menu is on the TV screen.

Pure Direct Mode

1 Press the **PURE DIRECT** button on the front panel to output an analogue audio signal only (no analogue video and HDMI signals will be output and the display will be turned off). The higher quality sound will be achieved.

NOTES:

- When the buttons below are pressed, the pure direct mode will be released.
OPEN/CLOSE button (on both the remote and the front panel), **SETUP** or **DISPLAY** button (on the remote), **ON/STANDBY** or **PURE DIRECT** button (on the front panel).
- The **PURE DIRECT** button will not function while displaying the setup menu.
- If you turn on the pure direct mode while selecting HDMI mode, both video and audio signals will not be output.

Brightness of the Front Panel Display

1 Press the **DIMMER** button on the front panel to select the desired brightness of the front panel display. (BRIGHT, DIMMER or OFF)

- The default setting is BRIGHT.

NOTES:

- The brightness of the front panel display can be adjusted from the setup menu. Details are on page 33.
- When you turn on the power next time, the brightness of the front panel display will be as set in setup menu.

DISC PLAYBACK

General Features

DVD-V DVD-A

DVD may contain menus to navigate the disc and access special features. Press the appropriate **Numeric** buttons or use the **Cursor** buttons (▲ / ▼ / ◀ / ▶) to highlight your selection in the DVD main menu and press the **ENTER** button to confirm.

NOTE:

- Unless otherwise stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.

Disc Menu

DVD-V

- 1 Press the **MENU** button.
 - The DVD main menu will appear.
- 2 If the feature is not available,  symbol may appear on the TV screen.
- 3 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.
- 4 Press the **Cursor** buttons (▲ / ▼ / ◀ / ▶) to select an item, and the **ENTER** button to confirm the selection.

Title Menu

DVD-V DVD-A

- 1 Press the **TOP MENU** button.
 - The title menu will appear.
- 2 If the feature is not available,  symbol may appear on the TV screen.
- 3 Press the **Cursor** buttons (▲ / ▼ / ◀ / ▶) to select an item, and the **ENTER** button to confirm the selection.
 - Playback will begin at the selected title.

VCD

- 1 When playing back a Video CD with PBC function, the title menu will appear automatically.
- 2 Press the **Numeric** buttons to select the desired title.
 - Playback will begin at the selected title.
- 3 Press the **RETURN** button to go back to the title menu.

CALLING UP A MENU SCREEN DURING PLAYBACK

DVD-V DVD-A

- Press the **MENU** button to call up the DVD main menu (DVD-V).
- Press the **TOP MENU** button to call up the title menu.

NOTE:

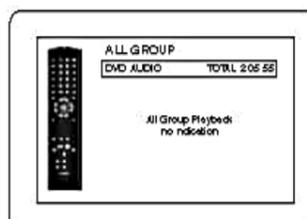
- Contents of menus and corresponding menu operations may vary among discs. Refer to the manual accompanying the disc for details.

DVD Audio Playback

DVD-A

PLAYBACK OF ALL GROUPS

- 1 In stop mode, press the **MODE** button.
 - The ALL GROUP screen appears.
- 2 Press the **PLAY** button to begin playback.

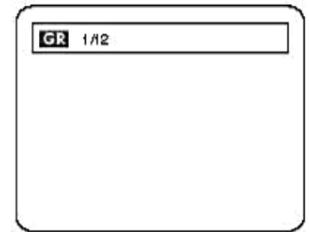


NOTE:

- "A-PLAY" is displayed in the front panel display at step 1.

PLAYBACK FROM A DESIRED GROUP

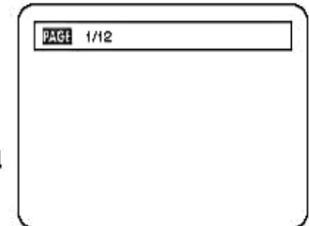
- 1 During playback or in the stop mode, press the **GROUP** button.
- 2 Press the **Numeric** buttons to select a group.
 - The group will be located and playback will start.



PAGE SELECTION

Some DVD-Audio discs that include still images feature a selection of images you can choose from.

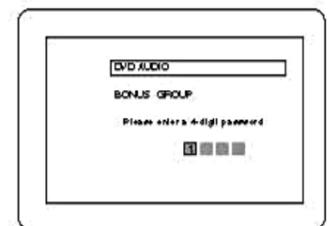
- 1 During playback, press the **PAGE +** or **-** button to select a desired page number to be displayed.



PLAYBACK OF THE BONUS GROUP

Some discs are recorded with the Bonus Group that can be played back by entering a password. Refer to the disc jackets.

- 1 In stop mode, press the **GROUP** button to open the group search screen.
- 2 Press the **Numeric** buttons to select a bonus group number.
 - The password popup window appears.
- 3 Press the **Numeric** buttons to enter the 4-digit password.
 - When the correct password is entered, playback starts from the top of the bonus group.



NOTES:

- In some cases the password window is displayed on the menu screen. Follow the instructions given on the screen.
- Once the password is entered, playback will be repeated until the disc is removed from the disc tray.

Still / Pause

DVD-V DVD-A VCD Super Audio CD CD MP3 JPEG WMA DivX®

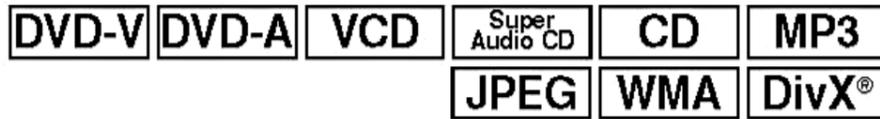
- 1 During playback, press the **STILL/PAUSE** button.
 - Playback will pause and sound will be muted.
- 2 To continue playback, press the **PLAY** button.



NOTE:

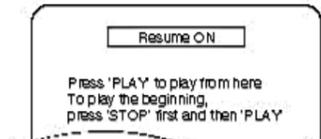
- On DVDs, set STILL MODE to FIELD on the display menu if pictures in the pause mode are blurred (refer to page 29).

Resume



1 During playback, press the **STOP** button.

- Resume message will appear on the TV screen.



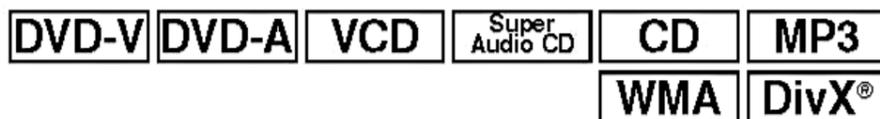
2 Press the **PLAY** button, playback will resume from the point at which playback was stopped.

- To cancel resume, press the **STOP** button again.

NOTES:

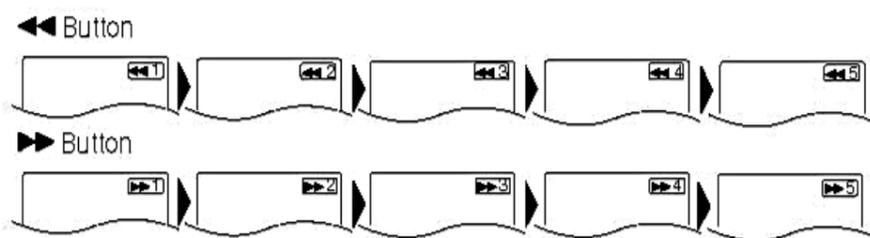
- Some Video CDs with PBC function resume playback from the beginning of the track.
- For MP3, JPEG or WMA, playback will resume from the beginning of the current track.
- The resume information will be saved on even when the power is turned off.

Fast Forward / Reverse Search



1 During playback, press the **◀◀** or **▶▶** button repeatedly to select a desired forward or reverse speed.

- For DVDs, fast forward or reverse search speed is different depending on the disc. The approximate speed is 1(x2), 2(x8), 3(x20), 4(x50) and 5(x100).



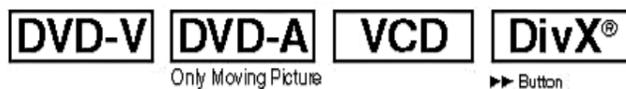
- For Video CDs, Super Audio CDs, Audio CDs, MP3, WMA and DivX®, the approximate speed is 1(x2), 2(x8) and 3(x30).
- For Super Audio CDs, Audio CDs, MP3 and WMA, sound will be output at any speed of fast forward and reverse search.

2 To return to normal playback, press the **PLAY** button.

NOTE:

- For some DivX® files, Fast Forward/Reverse Search may not function.

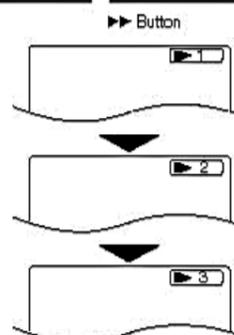
Slow Forward / Slow Reverse



1 During playback, press the **STILL/PAUSE** button.

2 Press the **◀◀** or **▶▶** button.

- Slow motion playback will begin and sound will be muted.



3 Press the **◀◀** or **▶▶** button repeatedly to select a desired speed.

- Slow forward or reverse speed is different depending on the disc. The approximate speed is 1(1/16), 2(1/8), and 3(1/2).

4 To return to normal playback, press the **PLAY** button.

NOTES:

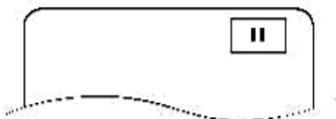
- On DVDs, set STILL MODE to FIELD on the display menu if pictures in the slow playback mode are blurred (refer to page 29).
- Only Slow Forward is available when playing back Video CD and discs with DivX® files.

Step by Step Playback



1 During playback, press the **STILL/PAUSE** button.

- Playback will pause and sound will be muted.



2 The disc advances frame by frame each time the **STILL/PAUSE** button is pressed.

3 To exit step by step playback, press the **PLAY** button.

NOTE:

- On DVDs, set STILL MODE to FIELD on the display menu if pictures in the pause mode are blurred (refer to page 29).

Picture Control



Picture Control adjusts Brightness, Contrast, Color, Gamma Correction and Sharpness of the specific display.

1 During playback, press the **MODE** button.



2 Press the **Cursor** buttons (**▲** or **▼**) to switch among items.

3 Press the **ENTER** button or the **Cursor** buttons (**◀** or **▶**) to adjust the selected item to a desired level.

- -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6 can be selected.

4 To return to normal playback, press the **RETURN** button.

NOTES:

- The default settings for all items in Picture Control are "0".
- The setting display will disappear in 10 seconds of no use.
- This function cannot be used during Dialog Speed (refer to page 20).
- If you return all items to the default settings, please execute initialise.

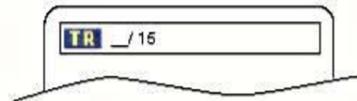
Track Search



There are two ways to begin playback a disc at a specific track.

By using the SEARCH MODE button

- 1 Press the **SEARCH MODE** button.
 - The track search display appears.
- 2 Within 30 seconds, select a desired track number using the **Numeric** buttons.
 - For the disc with less than 10 tracks, press the track number directly.
 - For discs with 10 or more but less than 100 tracks, to play back a single-digit track, press **0** first, then the track number (e.g. for track 3, press **0, 3**). To play back a double-digit track, press the track number.
 - For discs with 100 or more tracks, to play back a single- or a double-digit track, press **0** first, then the track number (e.g. for track 3, press **0, 0, 3**, and for track 26, press **0, 2, 6**). To play back a triple-digit track, press the track number.
 - Press the **CLEAR** button to erase the incorrect input.



- NOTE:**
- The **+10** button can also bring up the track search display except for the disc with less than 10 tracks. For such a disc, track search can be done by just pressing the track number.

By using the SKIP buttons

During playback, press the **SKIP** button to move to the next track. Press it repeatedly to skip to subsequent tracks. Press the **SKIP** button to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.

- Track number will appear briefly on the front panel display.
- If the **SKIP** button is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

- NOTE:**
- The **SKIP** buttons are not available when playback is stopped.

Time Search



- 1 Press the **SEARCH MODE** button until the time search screen appears on the TV screen.
- 2 Within 30 seconds, enter a desired time point on the disc with the **Numeric** buttons.
 - Playback will start at the specified time.
 - For Time Search, "0" appears automatically when there is no need to enter a number. For example, "0:0 : _" appears on the time search screen if the total time of the title or track is less than 10 minutes.
- 3 Press the **CLEAR** button to erase an incorrect input.



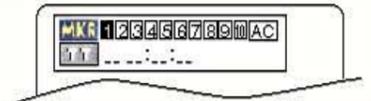
- NOTE:**
- For some DivX® files, Time Search may not function.

Marker Setup Screen



You can use markers to memorise your favourite places on a disc.

- 1 Press the **SEARCH MODE** button repeatedly until the display screen and Markers appear during playback.
- 2 Press the **Cursor** buttons (◀ or ▶) to select the number of the marker (1-10) and ensure that " : : " appears on the display.
- 3 When the disc reaches the point where you want to remember, press the **ENTER** button.
 - The title or track and elapsed playback time will appear on the TV screen.
- 4 To return to the Marker later, press the **SEARCH MODE** button repeatedly during playback and the **Cursor** buttons (◀ or ▶) to choose a desired marker, then press the **ENTER** button.
- 5 Press the **SEARCH MODE** or **RETURN** button to exit.



- NOTES:**
- Opening the disc tray, turning off the power, or selecting AC at step 2 and pressing the **ENTER** button will erase all Markers.
 - To clear a marker, using the **Cursor** buttons (◀ or ▶) button, select the marker number to be cleared and press the **CLEAR** button.
 - You can mark up to 10 points.

Repeat

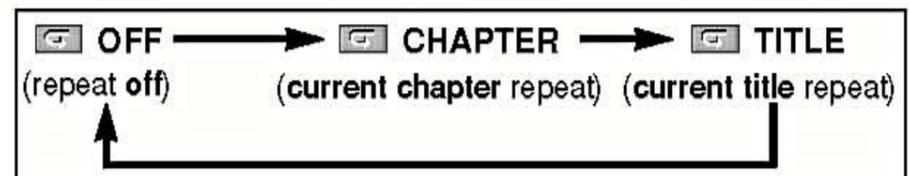
- The **REPEAT** button is available only during playback.

REPEAT TITLE / CHAPTER



To activate Repeat function, press the **REPEAT** button during playback.

- The repeat mode changes as described below every time you press the button.



- NOTES:**
- The Repeat Title/Chapter setting will be cleared when moving to other title or chapter.
 - Repeat playback does not function during A-B repeat playback.
 - Repeat Title/Chapter is not available with some scenes.

DISC PLAYBACK

REPEAT TRACK / GROUP / ALL

VCD

Super Audio CD

CD

To activate Repeat function, press the **REPEAT** button during playback.

- The repeat mode changes as described below every time you press the button.



NOTES:

- In the track repeat, repeat setting will be cleared when moving to other track.
- Repeat playback does not function during A-B repeat playback.
- Repeat playback is not available when playing back the Video CD with PBC function.

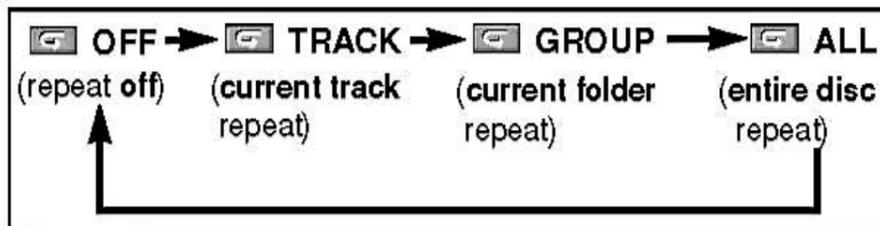
DVD-A

MP3

JPEG

WMA

DivX®



NOTES:

- In the track or group repeat, repeat setting will be cleared when moving to other track or group.
- For DVD-Audio, ALL repeat is effective only when all groups are being played back.
- For DVD-Audio, repeat playback is not available when playing back the Video CD with PBC function.

A-B REPEAT

DVD-V

DVD-A

VCD

Super Audio CD

CD

DivX®

- Press the **A-B REPEAT** button at your desired starting point.

- A-** appears briefly on the TV screen.

- Press the **A-B REPEAT** button again at your desired end point.

- A-B** appears briefly on the TV screen, and the repeat sequence begins.

- To exit the sequence, press the **A-B REPEAT** button.

NOTES:

- The A-B Repeat section can only be set within the current title (for DVD-Video), or current track (for DVD-Audio, Video CD, Super Audio CD, Audio CD and disc with DivX® files).
- A-B Repeat playback is not available with some scenes on DVD.
- To cancel the A point which was set, press the **CLEAR** button.
- A-B Repeat playback does not function during title, chapter, track, group or all repeat playback.
- For some DivX® files, A-B Repeat playback may not function.

Programme Playback

This function allows you to programme a playback order of DVD-Audio, Super Audio CD, Audio CD, MP3, JPEG or WMA in a desired sequence.

DVD-A

- In stop mode, press the **MODE** button repeatedly until the programme screen appears.

- The group selection screen will appear.

- Press the **Cursor** buttons (▲ or ▼) to select a group, then press the **ENTER** button.

- The track selection screen will be displayed.

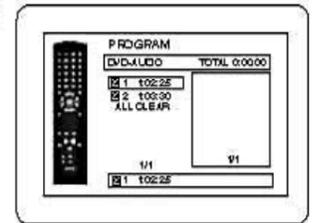
- It takes approximately 5 seconds until the track selection screen appears.

- Press the **Cursor** buttons (▲ or ▼) to select a track, then press the **ENTER** button.

- Press the **CLEAR** button to erase the most recently entered track.

- Press the **Cursor** button (◀) to go back to the group selection screen from the track selection screen.

- Press the **PLAY** button to play back the programmed tracks.



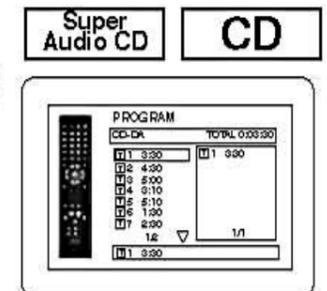
- In stop mode, press the **MODE** button.

- The programme screen will appear.

- Press the **Cursor** buttons (▲ or ▼) to select a track, then press the **ENTER** button.

- Press the **CLEAR** button to erase the most recently entered track.

- Press the **PLAY** button to start programmed playback.



MP3

JPEG

WMA

- In stop mode, press the **MODE** button.

- The programme screen will appear.

- Press the **Cursor** buttons (▲ or ▼) to select a group, then press the **ENTER** button.

- A track selection screen appears.

- Press the **Cursor** buttons (▲ or ▼) to select a track, then press the **ENTER** button to save it in a programme.

- Press the **CLEAR** button to erase the most recently entered track.

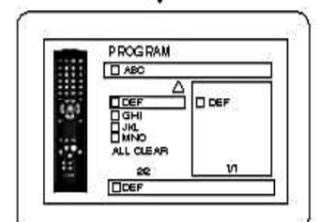
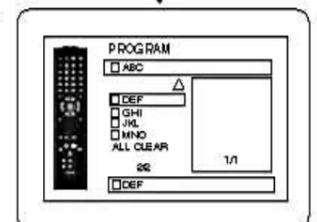
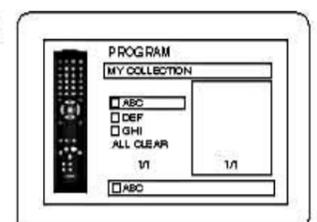
- The programmed track is displayed in the right-hand screen.

- If the entire programme cannot be displayed on the screen, "▼" appears.

- Pressing the **Cursor** button (◀) will show a list of folders that belong to the hierarchy which is one-level higher than the currently selected folder.

- Press the **PLAY** button to start programmed playback.

- During the display of the programme screen, press the **RETURN** button, and the stop screen will show up with the programme contents in memory.



NOTES:

- Press the **STOP** button once and then the **PLAY** button again, playback will restart from the point where the **STOP** button was pressed. (Programme continued.)
- Press the **STOP** button twice and then the **PLAY** button again, playback will restart from the first track in the usual way. Your programme is still stored until either the disc tray is open or power is turned off.
- Up to 99 tracks can be entered.
- To erase tracks in the programme all together, select **ALL CLEAR** at the bottom of the list at step **2** and, "A-CLEAR" is displayed on the front panel display at that time.
- To repeat the current track in the programme, press the **REPEAT** button repeatedly until  TRACK appears during playback. To repeat the entire programme, press the **REPEAT** button repeatedly until  ALL appears during playback.
- If eight or more tracks were set in a programme, use the **SKIP**  or  button to see all the tracks.
- When selecting the folder:
 - Press the **Cursor** button () when you want to go to the next hierarchy.
 - Press the **Cursor** button () when you want to go back to the previous hierarchy (except for the top hierarchy).
- Even if an inserted disc contains mixed MP3, JPEG and WMA files, 99 tracks in combination of MP3, JPEG and WMA files can be entered.
- The front panel display has blinked while setting the programme playback.
- "F-****" is displayed in the front panel display while selecting the group (folder). ("****" is group (folder) number.)

Random Playback

This function shuffles the playback order instead of playback in the original sequence.

- 1** In stop mode, press the **RANDOM** button.
 - The random screen will appear.
- 2** Press the **Cursor** buttons ( or ) to select a desired group to play back randomly, then press the **ENTER** or **PLAY** button.
 - Random playback will start.



- 1** In stop mode, press the **RANDOM** button.
 - The random screen will appear.
- 2** Press the **PLAY** button to start random playback.



NOTES:

- To repeat the current track in the random selection, press the **REPEAT** button repeatedly until  TRACK appears during playback. To repeat the entire random selection press the **REPEAT** button repeatedly until  ALL appears during playback.
- You cannot go back to the previous track during random playback.
- For a disc containing mixed MP3, JPEG and WMA files, random playback of those files will be performed.
- "SHUFFLE" is displayed on the front panel display at step **1**.

MP3 / JPEG / WMA Playback

MP3 JPEG WMA

When a CD-R or CD-RW disc with MP3, JPEG or WMA files is inserted in the DVD player, the file list will appear automatically on the TV screen. The number of tracks is also displayed on the front panel.

- 1** Press the **Cursor** buttons ( or ) to select a desired group (folder) or track.
 - To return to the previous screen, press the **Cursor** button ().
 - If a group (folder) is selected, press the **Cursor** button () or **ENTER** button to go on to the track selection screen. Press the **Cursor** buttons ( or ) to choose a track, then press the **PLAY** or **ENTER** button.
 - If a track is selected, press the **PLAY** or **ENTER** button to start playing back tracks. The selected track and the subsequent tracks will be played back.
 - When selecting the folders
 - Press the **Cursor** button () when you want to go to the next hierarchy.
 - Press the **Cursor** button () when you want to go back to the previous hierarchy (except for the top hierarchy).
 - Press the **TOP MENU** button to return to the first item.
- 2** Press the **STOP** button to stop playback.

NOTES:

- Folders are known as Groups; files are known as Tracks.
- A symbol of  is shown on the top of the group name.
- A symbol of  is shown on the top of MP3 files.
- A symbol of  is shown on the top of JPEG files.
- A symbol of  is shown on the top of WMA files.
- Maximum of 255 folders can be recognised.
- Maximum of 999 files can be recognised.
- Up to 8 hierarchies can be recognised.
- If the track extends beyond the scope of screen, a down arrow "▼" appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the left of the down arrow "▼".
- If no MP3, JPEG or WMA files are found in the group, the group is not displayed.
- The DVD player can reproduce data recorded as per ISO 9660 Level 1, Level 2 or Joliet on the disc.
- It can also run a disc on which data is recorded in a multi-session.
- For more details of recording systems, refer to the instruction manual for the CD-R / CD-RW drive or the writing software.
- For MP3 and WMA files recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.

DISC PLAYBACK

This player recommends the use of files recorded at the following specifications:

Applicable MP3 file		Remarks
Sampling frequency	44.1kHz 48kHz	• It is prohibited to record MP3 sound on a digital device when the connection is made digitally.
Type	MPEG1 audio layer 3	• MP3 files recorded at fixed bit rate of 32kbps or higher are recommended.
Applicable JPEG file		Remarks
Size of image	Upper limit: 6300x5100 dots Lower limit: 32x32 dots	• A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen.
Applicable WMA file		Remarks
Sampling frequency	44.1kHz 48kHz	• Those frequencies are applicable to WMA version 9.
Bit rate	48–192kbps	• Ensure that the copyright function is set to off when preparing a WMA disc.
Type	WMA version 9	• A prohibition “disable” symbol will appear if the user attempts to run a non-reproducible file such as copyright-protected. • Recorded in Multi-channel format cannot be played back.

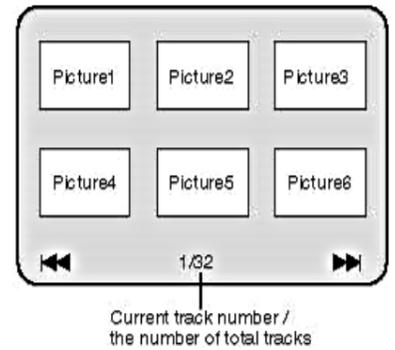
Information on MP3, JPEG and WMA discs

- This DVD player can play back images and sounds from data recorded in MP3 and JPEG formats on CD-R and CD-RW discs.
 - A file with an extension of “.mp3 (MP3)” is called an MP3 file.
 - A file with an extension of “.jpg (JPG)” or “.jpeg (JPEG)” is called a JPEG file.
- The DVD player can run an image file conforming to the Exif specification. Exif is a file format, Exchangeable Image File format established by Japanese Electronic Industry Development Association (JEIDA).
- A file with an extension of “.wma (WMA)” is called a WMA file.
 - Files whose extension is other than “.mp3 (MP3)”, “.jpg (JPG)” and “.jpeg (JPEG)” or “.wma (WMA)” will not be listed on the MP3, JPEG or WMA menu.
 - If the file is not recorded in MP3, JPEG or WMA format, noise may be produced even if the file extension is either “.mp3 (MP3)”, “.jpg (JPG)”, “.jpeg (JPEG)” or “.wma (WMA)”.
 - The name of group and track can be displayed up to 25 characters. Unrecognisable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
 - Unplayable groups or tracks may be displayed depending on the recording conditions.
 - If the **TOP MENU** button is pressed when a file list is displayed, the first item will be highlighted.

Kodak Picture CD

The DVD player can also run JPEG files stored on Kodak Picture CDs. You can enjoy picture images on the television set by playing back the Picture CDs. For details of Kodak Picture CD, contact a shop that provides photo developing service of Kodak Inc.

- 1 When Kodak Picture CD is inserted in the DVD player, Kodak Picture CD menu appears automatically on the TV screen.



- If all menu items cannot be displayed on the screen scope, “▶▶” appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. If “◀◀” appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the centre bottom of the screen.
- If “▶▶” is shown at the right bottom, use the **SKIP ▶▶** button to view the next page. If “◀◀” is shown at the left bottom, use the **SKIP ◀◀** button to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

- 2 Press the **Cursor** buttons (▲ / ▼ / ◀ / ▶) to select a desired track to be played back, then press the **PLAY** or **ENTER** button.
 - If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.

- 3 Press the **STOP** button to stop playback.

NOTES on JPEG and Kodak Picture CD:

- A track is displayed for 5 or 10 seconds and then the next track is displayed.
- Every press on the **ANGLE** button will turn the image clockwise by 90 degrees when an image is displayed.
- To change the size of the playback image, press the **MODE** button twice. The size change mode appears on top of the TV screen during playback. Then press the **Cursor** buttons (◀ or ▶) or **ENTER** button to switch between **NORMAL** (100%) and **SMALL** (95%).
- Progressive JPEGs (JPEG files saved in the progressive format) will not be played back on this DVD player.
- High resolution JPEG files take longer to be displayed.
- The size change mode may have no effect on some files (e.g. files with a small picture size).
- In stop mode, press the **MENU** button. Kodak Picture CD menu appears.

NOTES on WMA:

- The DVD player can reproduce data recorded as ISO 9660 level 2 with 31 characters file name included punctuation marks. The name of file can be displayed up to 25 characters.
- Maximum of 8 subfolders can be recognised.
- It can also be displayed tag information of WMA at least 64 characters.
- A file with an extension of Joliet as Unicode format in up to 64 characters can be recognised.
- This unit cannot play back copyright protected WMA files.

DivX® Playback



This DVD player can play back DVD-R/RW and CD-R/RW discs recorded in DivX® format. When a DVD-R/RW or CD-R/RW with DivX® files is inserted in the DVD player, the file list will appear automatically on the TV screen. The number of tracks will be also displayed on the front panel.

- Press the **Cursor** buttons (▲ or ▼) to select the desired group (folder) or track.
 - To return to the previous screen, press the **Cursor** button (◀).
 - If a group (folder) is selected, press the **Cursor** button (▶) or **ENTER** button to go on to the track selection screen. Press the **Cursor** buttons (▲ or ▼) to choose a track, then press the **PLAY** or **ENTER** button.
 - If a track is selected, press the **PLAY** or **ENTER** button to start playing back tracks. The selected track and the subsequent tracks will be played back.
 - When selecting the folders:
 - Press the **Cursor** button (▶) when you want to go to the next hierarchy.
 - Press the **Cursor** button (◀) when you want to go back to the previous hierarchy (except for the top hierarchy).
 - Press the **TOP MENU** button to return to the first item.

2 Press the **STOP** button to stop playback.

NOTES:

- DivX® is a codec (compression/decompression) that can compress images to a very small amount of data. The software can compress video data from almost any sources to the size that can be sent on the Internet without compromising visual quality of the images.
- A file with an extension of ".avi" or ".divx" is called an DivX® file. All files with the ".avi" extension are recognised as MPEG 4.
- Files with extension other than ".avi" and ".divx" will not be listed on the DivX® menu. However, unplayable groups or tracks may be displayed, depending on the recording conditions.
- Even if the file has an extension of either ".avi" or ".divx", this player cannot play it back if it is recorded in the format other than DivX®.
- Folders are known as Groups; files are known as tracks.
- A symbol of ■ is shown on the top of DivX® file.
- Maximum of 255 folders can be recognised.
- Maximum of 999 files can be recognised.
- If the track extends beyond the scope of screen, a down arrow "▼" appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the left of the down arrow "▼".
- The name of group and track can be displayed up to 25 characters. Unrecognisable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- You can play back the disc recorded in multi-session.
- Playback will be paused if the file list is displayed during the playback.
- It may take a while for audio and images to be output after you inserted a disc and pressed the **PLAY** button.
- When playing back the files recorded in high bit rates, the images can be interrupted on some occasions.
- Although DivX® logo has been obtained for this player, it may not be able to play back some data, depending on the disc characteristics, bit rates, or audio format settings, etc.

- Use the software recognised by DivX®, Inc. when you make DivX® files.
- When using tools or utilities to make up DivX® files, read their instruction manual beforehand.
- A DivX® file whose file size exceeds 2GB cannot be played back.
- If a large-sized DivX® file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- Constant bitrate of image between 500 kbps and 4,000 kbps is recommended if you make DivX® files on a CD-R/RW.
- If DivX® files written on CD discs cannot be played back, rewrite them on a DVD disc and try to play back.
- For more information for DivX®, please visit: <http://www.divx.com>
- If you insert a CD-R/RW with DivX® files that are mixed with MP3, JPEG, or WMA files, the Playback Media Selection screen will be displayed. Please select Video and proceed to Step 1.



- Press the **TOP MENU** button to call up the Playback Media Selection screen in stop mode.
- If you select Audio & Picture, instead of Video on the Playback Media Selection screen, the DVD player can play back MP3/JPEG/WMA files. Refer to page 23 for details.

This player recommends the use of files recorded at the following specifications:

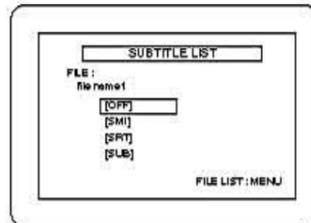
Applicable DivX® file	Remarks		
<table border="1"> <tr> <td>Playable Codec of AVI files</td> <td>Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.</td> </tr> </table>	Playable Codec of AVI files	Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.	<ul style="list-style-type: none"> They are recognised as MPEG 4.
Playable Codec of AVI files	Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.		
<table border="1"> <tr> <td>Maximum size of image</td> <td>720 x 480 @30fps 720 x 576 @25fps</td> </tr> </table>	Maximum size of image	720 x 480 @30fps 720 x 576 @25fps	
Maximum size of image	720 x 480 @30fps 720 x 576 @25fps		
<table border="1"> <tr> <td>Sampling frequency of audio</td> <td>8kHz - 48kHz</td> </tr> </table>	Sampling frequency of audio	8kHz - 48kHz	<ul style="list-style-type: none"> It is prohibited to record MP3 sound on a digital device when the connection is made digitally.
Sampling frequency of audio	8kHz - 48kHz		
<table border="1"> <tr> <td>Audio type</td> <td>MPEG1 audio layer 3 (MP3) MPEG1 audio layer 2 Dolby Digital</td> </tr> </table>	Audio type	MPEG1 audio layer 3 (MP3) MPEG1 audio layer 2 Dolby Digital	<ul style="list-style-type: none"> MP3 files recorded at fixed bit rate of 32kbps or higher are recommended.
Audio type	MPEG1 audio layer 3 (MP3) MPEG1 audio layer 2 Dolby Digital		

DivX® Subtitle



The subtitle created by the user can be displayed during DivX® playback.

- 1 After select the DivX® file, the SUBTITLE LIST will appear except when the "DivX SUBTITLE" setting is "OFF". Refer to "Language Setting" on page 29.



- 2 Press the **Cursor** buttons (▲ or ▼) to select the desired extension you want to display, then press the **ENTER** button. DivX® with the subtitle starts playback. The subtitle cannot be displayed when the setting is "OFF".
 - If there is more than one extension, the extension selection appears in the SUBTITLE LIST.

NOTES:

- DivX® subtitle can only be displayed according to the same name with an extension of the DivX® file name.
- Files whose extension is other than ".SMI", ".smi", ".SRT", ".srt", ".SUB" and ".sub" will not be listed in the SUBTITLE LIST.
- This unit cannot be recognised if the DivX® file and its subtitle file are not in the one folder.
- The subtitle may not be displayed if the file size is too large.
- To change the subtitle, refer to "Subtitle Language" on page 27 if multiple subtitles are available.
- The subtitle cannot display if the on-screen information is displayed.
- If "DivX SUBTITLE" is set to "OFF" in LANGUAGE menu, the SUBTITLE LIST will not be displayed even if you select a DivX® file with created subtitle.
- Unrecognisable characters will be replaced with asterisks.

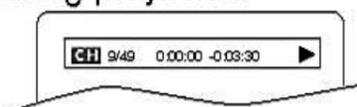
Changing the On-Screen Display

You can check information about the current disc by pressing the **DISPLAY** button.



- 1 Press the **DISPLAY** button during playback.

- Current chapter number/total chapters, elapsed time and remaining time of the current chapter, and current playback status will be displayed.

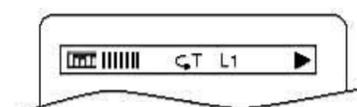


- 2 Press the **DISPLAY** button again.

- Current title number/total titles, elapsed time and remaining time of the current title, and current playback status will be displayed.

- 3 Press the **DISPLAY** button for the third time.

- The bit rate (the amount of video data currently being read) and current playback status will be displayed.
- Current repeat setting appears on the display bar only when the repeat setting is active. (◀ C: Chapter repeat/▶ T: Title repeat/ A ↔ B: A-B repeat)
- If you are playing back a two-layered disc, the layer number will also be displayed. (L0: Layer 0 is being played back. L1: Layer 1 is being played back.)



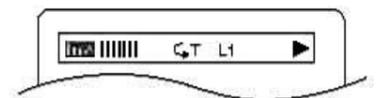
- 4 Press the **DISPLAY** button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on page 27.)
- 5 Press the **DISPLAY** button again to exit.



- 1 Press the **DISPLAY** button during playback.
 - Current track number/total tracks, elapsed time and remaining time of the current track, and current playback status will be displayed.
- 2 Press the **DISPLAY** button again.
 - Current group number/total groups, elapsed time and remaining time of the current group, and current playback status will be displayed.

- 3 Press the **DISPLAY** button again.

- The bit rate and current playback status will be displayed.
- Current repeat setting appears on the display bar only when the repeat setting is active. (◀ T: Track repeat/▶ G: Group repeat/ A ↔ B: A-B repeat)
- If you are playing back a two-layered disc, the layer number will also be displayed. (L0: Layer 0 is being played back. L1: Layer 1 is being played back.)



- 4 Press the **DISPLAY** button again.
 - During all group, programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on page 27.)

- 5 Press the **DISPLAY** button again to exit.



- 1 Press the **DISPLAY** button during playback.
 - Current track number/total tracks, elapsed time and remaining time of the current track, and current playback status will be displayed.
 - Current repeat setting appears on the display bar only when the Repeat setting is active. (◀ T: Track repeat/▶ A: All tracks repeat/ A ↔ B: A-B repeat)

- 2 Press the **DISPLAY** button again.

- Current track number/total tracks, elapsed time and remaining time of the entire disc, and current playback status will be displayed.
- Current repeat setting appears on the display bar only when the Repeat setting is active. (◀ T: Track repeat/▶ A: All tracks repeat/ A ↔ B: A-B repeat)
- On Audio CDs, when you are playing back a disc in programme or random mode, PROGRAM (or RANDOM) will be displayed.

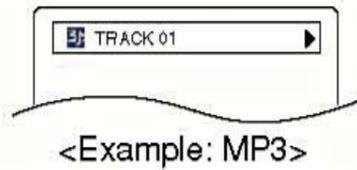
- 3 Press the **DISPLAY** button again.

- During programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button again.
- Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on page 27.)

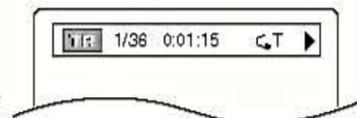
- 4 Press the **DISPLAY** button again to exit.

MP3 **JPEG** **DivX®**

- 1 Press the **DISPLAY** button during playback.
 - Current file name will be displayed.



- 2 Press the **DISPLAY** button again.
 - Current track number/total tracks and elapsed time (MP3 and DivX®) will be displayed.
 - Current repeat setting appears only when the Repeat setting is active. (↵ T: Track repeat/ ↵ A: All (disc) repeat/ ↵ G: Group repeat/ A ↵ B: A-B repeat (DivX® only)).
 - When you are playing back a disc with MP3 or JPEG files in programme or random mode, **PROGRAM** (or **RANDOM**) will be displayed.

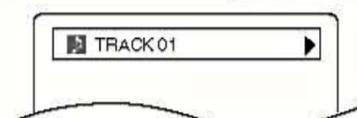


- 3 Press the **DISPLAY** button again.
 - During programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on this page.)

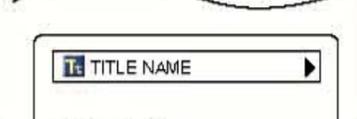
- 4 Press the **DISPLAY** button again to exit.

WMA

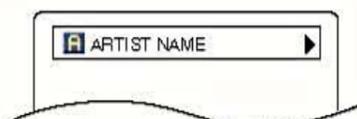
- 1 Press the **DISPLAY** button during playback.
 - Current file name will be displayed.



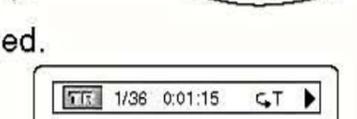
- 2 Press the **DISPLAY** button again.
 - Title name based on tag information of currently played-back file will be displayed.



- 3 Press the **DISPLAY** button for the third time.
 - Artist name based on tag information of currently played-back file will be displayed.



- 4 Press the **DISPLAY** button again.
 - Current track number/total tracks and elapsed time will be displayed.
 - Current repeat setting appears only when the Repeat setting is active. (↵ T: Track repeat/ ↵ A: All (disc) repeat/ ↵ G: Group (folder) repeat).
 - When you are playing back a disc in programme or random mode, **PROGRAM** (or **RANDOM**) will be displayed.



- 5 Press the **DISPLAY** button again.
 - During programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on this page.)

- 6 Press the **DISPLAY** button again to exit.

- NOTE:**
- If the file does not contain tag information, **NOT AVAILABLE** will be displayed.

NOTE FOR HDMI DISPLAY:

- The displayed HDMI status are as follows:
 1. Information for image output/ Resolution of image
 2. Sound output format
 3. Maximum number of audio channels that can be accepted by the connected equipment

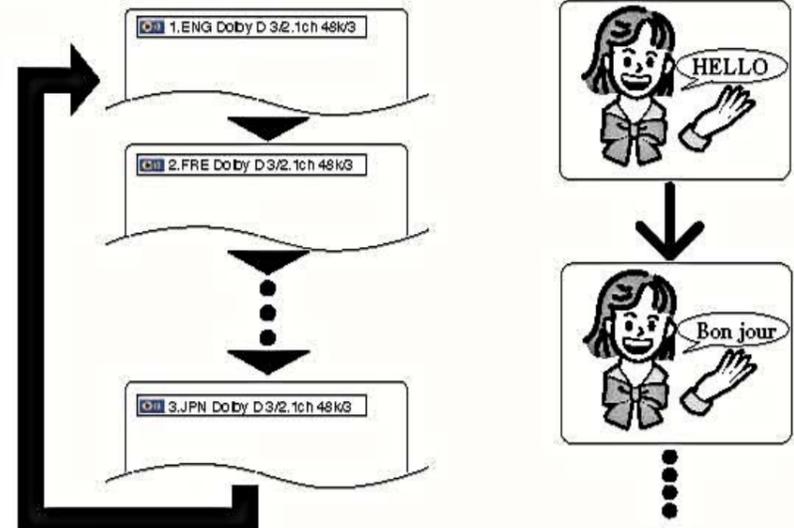


Audio Language

DVD-V **DivX®**

The DVD player allows you to select a language (if multiple language options are available) during DVD disc playback.

- 1 Press the **AUDIO** button during playback.
- 2 Press the **AUDIO** button repeatedly to select your desired language.



NOTES:

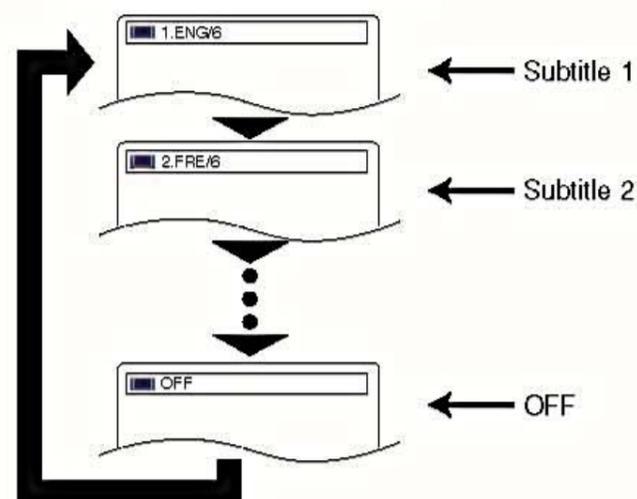
- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Some discs allow to change the Audio Language setting on the disc menu. (Operation varies among discs. Refer to the manual accompanying the disc.)
- For discs with DivX® files, the screen only displays MP3, MP2 or Dolby Digital audio. Other audio sounds will be displayed as "---".
- Pressing the **AUDIO** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow to change the Audio Language setting on the disc menu).
- If you choose a language that has a three-letter language code, the code will be displayed every time you change the Audio Language setting. If you choose any other languages, "---" will be displayed instead (refer to page 34).
- Audio language selection cannot be made during Dialog Speed (refer to page 20).
- If the disc has no audio language, **NOT AVAILABLE** will be displayed.

Subtitle Language

DVD-V **DivX®**

The DVD player allows you to select a subtitle language (if multiple language options are available) during DVD disc playback.

- 1 Press the **SUBTITLE** button during playback.
- 2 Press the **SUBTITLE** button repeatedly to select your desired subtitle language.
 - The selected language will be displayed on the display bar at the top of the screen.
 - Press the **Cursor** buttons (◀ or ▶) to turn on or off subtitles during playback.



- 3 To turn off the subtitles, press the **SUBTITLE** button repeatedly until **OFF** appears.

DISC PLAYBACK

NOTES:

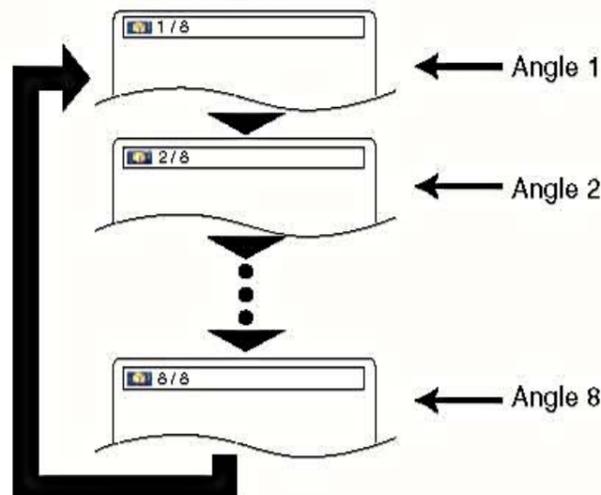
- Some discs allow the Subtitle Language setting on the disc menu. (Operation varies among discs. Refer to the manual accompanying the disc.)
- Pressing the **SUBTITLE** button may not work on some DVDs with multiple subtitle languages (e.g. DVDs which allow the Subtitle Language setting on the disc menu).
- If your desired language is not shown after pressing the **SUBTITLE** button several times, the disc does not have subtitles in that language.
- If you choose a language that has a three-letter language code, the code will be displayed every time you change the Subtitle Language setting. If you choose any other languages, "---" will be displayed instead (refer to page 34).
- If the disc has no subtitle language, NOT AVAILABLE will be displayed.
- For discs with DivX® files, the screen only displays the number of subtitle languages.

Camera Angle

DVD-V

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the () icon appears on the screen.

- 1 Press the **ANGLE** button during playback.
 - The selected angle will be displayed on the display bar at the top of the screen.
- 2 Press the **ANGLE** button repeatedly to select your desired angle.



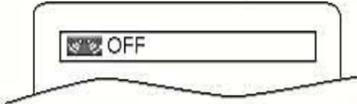
NOTE:

- If ANGLE ICON is set to OFF in the display menu, the () icon will not appear (refer to page 33).

Virtual Surround

DVD-V DVD-A VCD CD MP3 WMA

You can enjoy stereophonic virtual space through your existing 2 channel stereo system.

- 1 During playback, press the **MODE** button repeatedly until the Virtual Surround setting appears.
 
- 2 Press the **ENTER** button to set it 1(Natural effect), 2(Emphasised effect) or OFF.
- 3 Press the **RETURN** button to exit.

NOTES:

- Select Virtual Surround OFF or lower the volume if the sound is distorted.
- Virtual Surround will not be effective if the sound mode is set to something other than STEREO (for Audio CD or Video CD playback only).
- This function cannot be used during Dialog Speed (refer to page 20).
- Set HDMI AUDIO and ANALOG AUDIO to "2 CHANNEL" to use this function (refer to page 31)
- The Virtual Surround setting is not available for Super Audio CDs. (If a disc contains the CD area, Virtual Surround setting is available only for the CD area.)

Sound Mode

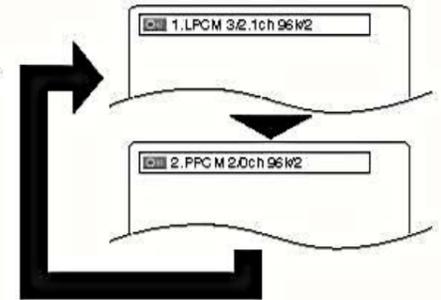
DVD-A

This function allows you to select a desired sound mode during DVD-Audio playback.

- 1 Press the **AUDIO** button during playback.
- 2 Press the **AUDIO** button repeatedly to select your desired sound.

NOTE:

- When selecting a multi-channel sound, it may not be mixed down in some cases even though the HDMI AUDIO or ANALOG AUDIO setting is 2 CHANNEL.



Stereo Sound Mode

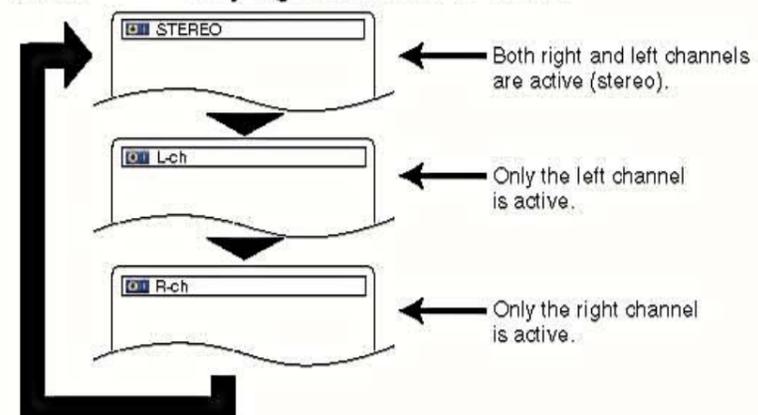
VCD CD

- 1 Press the **AUDIO** button repeatedly during playback to select your desired sound mode.

STEREO - both right and left channels are active (stereo)

L-ch - only left channel is active

R-ch - only right channel is active



NOTE:

- Stereo sound mode will not be changed when playing DTS CD.

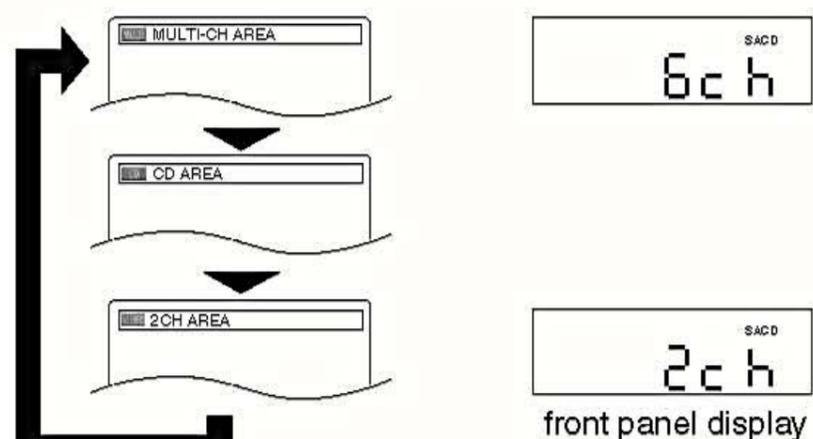
Super Audio CD

- 1 Press the **SUPER AUDIO CD SET UP** button repeatedly to select among MULTI-CH AREA, CD AREA, or 2CH AREA.

MULTI-CH AREA - playback in multi channel format. The number of channels depends on the disc being played.

CD AREA - playback in the same quality with sound as normal CDs.

2CH AREA - playback in higher quality than that of normal CD sound.



NOTES:

- The Virtual Surround setting is not available for Super Audio CDs. (If a disc contains the CD area, Virtual Surround setting is available only for the CD area.)
- Some playback options may not be available. These will be skipped.
- MULTI-CH AREA is selected as default.

In setup menu, QUICK mode, CUSTOM mode and INITIALIZE mode are available (refer to pages 29-34). QUICK mode consists of items of which the setting menus are frequently used, and they are accompanied with **QUICK** mark. You can make all settings in CUSTOM mode.

Language Setting

Language setting can be varied with some DVDs or DivX® Subtitles recorded in discs.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select CUSTOM, then press the **ENTER** button.
 - The CUSTOM mode will appear.
- 3 Press the **Cursor** buttons (◀ or ▶) to select LANGUAGE, then press the **ENTER** button to confirm.
- 4 Press the **Cursor** buttons (▲ or ▼) to select an item, then press the **ENTER** button.



DIALOG (Default: ORIGINAL)

- Sets the audio language.

SUBTITLE (Default: OFF)

- Sets the subtitle language.

DISC MENU (Default: ENGLISH)

- Sets the language for DVD Menu.

OSD (Default: ENGLISH) **QUICK**

- Sets the language for the on-screen display.

DivX SUBTITLE (Default: OFF)

- Sets the DivX® subtitle language.

- 5 Press the **Cursor** buttons (▲ or ▼) to select a language, then press the **ENTER** button.
 - If OTHER is selected for DIALOG, SUBTITLE or DISC MENU, press four-digit number to enter the code for your desired language (refer to the language code list on page 34).
 - Only the languages supported by the disc can be selected.
 - For DivX SUBTITLE, if you want to display the Russian subtitle, you can select either "RUSSIAN1" or "RUSSIAN2" which depends on type of the subtitle files.

- 6 Press the **SETUP** button to exit.

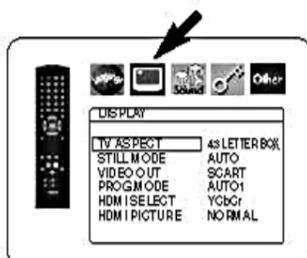
NOTE:

- Language setting for DIALOG and SUBTITLE may not be available on some discs. Then use the **AUDIO** and **SUBTITLE** buttons. Details are on page 27.

Display Setting

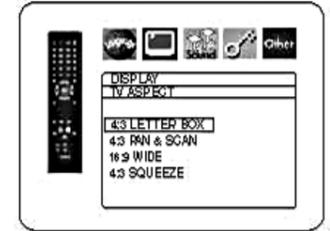
You can change certain aspects of the DVD display screens, still mode setting, Progressive and HDMI settings.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select CUSTOM, then press the **ENTER** button.
 - The CUSTOM mode will appear.
- 3 Press the **Cursor** buttons (◀ or ▶) to select DISPLAY, then press the **ENTER** button to confirm.
- 4 Press the **Cursor** buttons (▲ or ▼) to select an item, then press the **ENTER** button.



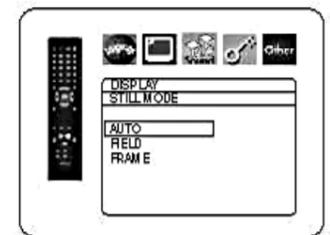
TV ASPECT (Default: 4:3 LETTER BOX) **QUICK**

- Press the **Cursor** buttons (▲ or ▼) to select a setting, then press the **ENTER** button.
- Select 4:3 LETTER BOX. Black bars may appear at the top and bottom of the screen, depending on the proportion of the TV screen.
- Select 4:3 PAN & SCAN for a full height picture with both sides adjusted.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.
- Select 4:3 SQUEEZE when the TV screen is too large horizontally at 16:9 WIDE setting and when it is impossible to adjust the screen size using the TV's controls.



STILL MODE (Default: AUTO)

- Press the **Cursor** buttons (▲ or ▼) to select a setting (AUTO, FIELD, or FRAME), then press the **ENTER** button.
- This function allows you to adjust picture resolution and quality in still mode.
- An individual picture on TV screen is called as "frame", which consists of two separate images called as "field". Some pictures may be blurred at the AUTO setting in still mode due to their data characteristics.
- AUTO: Automatically selects the best resolution setting (FRAME or FIELD) based on the data characteristics of the pictures.
- FIELD: Select FIELD when the pictures are still unstable even if AUTO is selected. FIELD stabilises the pictures, although the picture quality may become coarse due to the limited amount of data.
- FRAME: Select FRAME to display relatively motionless pictures in higher resolution. FRAME improves the picture quality, although it may unstabilise the pictures due to simultaneous output of two field data.



VIDEO OUT (Default: SCART)

- Press the **Cursor** buttons (▲ or ▼) to select a setting (SCART, COMPONENT INTERLACE or COMPONENT PROGRESSIVE), then press the **ENTER** button.
- This setting will be effective when you exit the setup screen by pressing the **SETUP** button.
- When VIDEO OUT is COMPONENT PROGRESSIVE, P.SCAN appears on the DVD player's front panel display after you exited the setup screen.
- In the HDMI output mode, even when VIDEO OUT is set to COMPONENT PROGRESSIVE, signals are output always as Interlace.
- Refer to page 12 for more details.



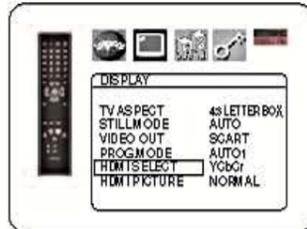
PROG.MODE (Default: AUTO1)

- Press the **Cursor** buttons (▲ or ▼) to select a mode for the progressive scan output, then press the **ENTER** button.
- **AUTO1**: mode suitable for images on the film material.
- **AUTO2**: mode for images on the material of 30-frame film.
- **VIDEO1**: mode for normal video material.
- **VIDEO2**: mode for video material with less movements.
- **VIDEO3**: mode for video material with many movements.



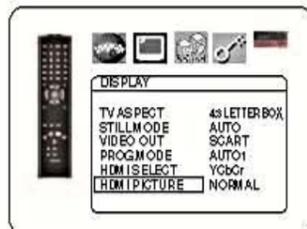
HDMI SELECT (Default: YCbCr)

- Select an HDMI output mode between YCbCr and RGB.
- When the connected equipment is not compatible with YCbCr, HDMI signal is output as RGB regardless of the setting.



HDMI PICTURE (Default: NORMAL)

- Select an HDMI picture mode between NORMAL and ENHANCED.
- Select ENHANCED if the black-white contrast is not clear.
- This setting is effective only for HDMI RGB output.



5 Press the **SETUP** button to exit and activate the new settings.

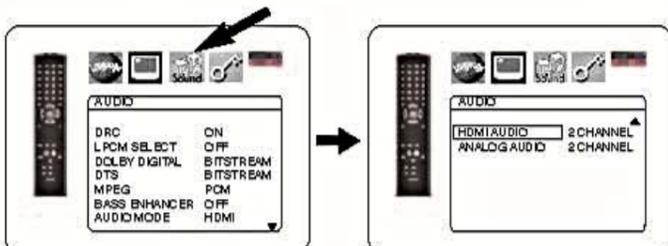
NOTES:

- Be sure to press the **SETUP** button, or the setting will not work.
- When changing the VIDEO OUT setting (SCART, COMPONENT INTERLACE or COMPONENT PROGRESSIVE), connect to a Video jack or an S-Video jack on the TV. If the setting is changed, for example, to SCART while the Component Video jacks are used to connect to the TV, a distorted video signal may be output.

Audio Setting

You can change some Audio settings. It only affects during the playback of DVD discs.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select **CUSTOM**, then press the **ENTER** button.
 - The CUSTOM mode will appear.
- 3 Press the **Cursor** buttons (◀ or ▶) to select **AUDIO**, then press the **ENTER** button to confirm.
- 4 Press the **Cursor** buttons (▲ or ▼) to select an item, then press the **ENTER** button.
 - This menu display contains 2 pages. Press the **Cursor** button (▼) repeatedly to show the next page.



DRC (Dynamic Range Control) (Default: ON)

- DRC function compresses the range of sound volume.
- DRC function is available only on the discs that are recorded in the Dolby Digital format.



LPCM SELECT (Default: OFF)

- Set to ON when outputting in 48kHz (or 44.1kHz).
- This function is available only on digital outputting of a disc recorded in 96kHz (or 88.2kHz).
- Sounds of the DVD-Audio which exceed 96kHz (or 88.2kHz) will be output as 96kHz (or 88.2kHz) even if LPCM SELECT is set to OFF.
- This function is not effective for the HDMI sound output.

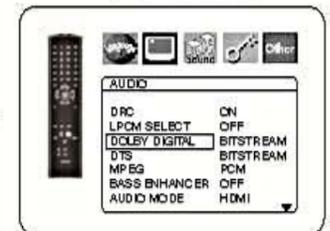


When playing disc with copyright protection

- The sound will be down sampled at 48kHz (44.1kHz), even if you set to OFF.

DOLBY DIGITAL (Default: BITSTREAM) QUICK

- Set to BITSTREAM when the player is connected to a Dolby Digital decoder.
- This function is effective only for the COAXIAL, OPTICAL and HDMI connections.



BITSTREAM: Output by Dolby Digital.

- For HDMI connection, if the connected equipment is not compatible with the Dolby Digital BITSTREAM, the signals are output as PCM regardless of the setting.

PCM: Convert Dolby Digital to PCM.

DTS (Default: BITSTREAM) QUICK

- Set to BITSTREAM when the unit is connected to a DTS decoder.



BITSTREAM: Output by DTS sound.

- For HDMI connection, if the connected equipment is not compatible with the DTS Bitstream, the signals are output as PCM regardless of the setting.

PCM: Convert DTS to PCM.

MPEG (Default: PCM) QUICK

- Set to BITSTREAM when the unit is connected to an MPEG decoder.



BITSTREAM: Output MPEG sound.

- For HDMI connection, if the connected equipment is not compatible with the MPEG sound, the signals are output as PCM regardless of the setting.

PCM: Convert MPEG sound to PCM.

BASS ENHANCER (Default: OFF)

- Set to ON for sound output on the bass-woofer channel when 2-channel audio source is played back.
- This function is effective only for the 5.1ch AUDIO OUT jacks. Set the AUDIO MODE to ANALOG and ANALOG AUDIO to MULTI CHANNEL to set this function.
- When SUB WOOFER is set to NONE in the Speaker Configuration, BASS ENHANCER will be set to OFF automatically.



AUDIO MODE (Default: HDMI)

- Select the sound is output from whether HDMI OUT jack or 5.1ch AUDIO OUT jacks.
- HDMI: Sound is output via HDMI connection. Output from 5.1ch AUDIO OUT connection may be restricted.



ANALOG: Sound is output via 5.1ch AUDIO OUT jacks. Output from HDMI connection is cut off.

- Set to ANALOG when Super Audio CD is played back.

HDMI AUDIO (Default: 2 CHANNEL)

- Select the number of channels for HDMI audio output between 2 CHANNEL and MULTI CHANNEL.
- Refer to the table on page 16 for the actual output settings.
- Connect appropriate external equipment for each setting and set AUDIO MODE to HDMI beforehand to perform this setting.



2 CHANNEL:

2 channel signals are output from HDMI OUT jack. Suitable for monitors or projectors compatible with HDMI 2CH.

MULTI CHANNEL:

Multi channel signals are output from HDMI OUT jack. Suitable for monitors or amplifiers compatible with HDMI multi channels.

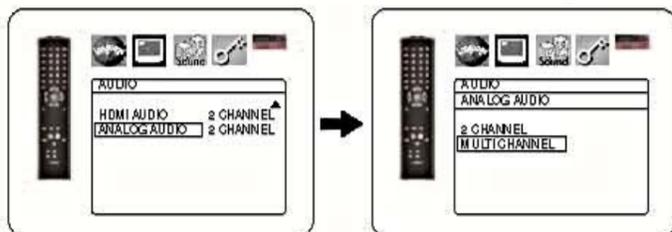
- When MULTI CHANNEL is selected, the Speaker setting menu for HDMI AUDIO will appear (refer to page 32).

ANALOG AUDIO (Default: 2 CHANNEL)

- Set AUDIO MODE to ANALOG beforehand to perform this setting.

2 CHANNEL: Output 2ch sound from the 5.1ch AUDIO OUT jacks.

MULTI CHANNEL: Output Multi channel sound from the 5.1ch AUDIO OUT jacks.



- 5 Press the **SETUP** button to exit.

Speaker Setting for ANALOG AUDIO

When MULTI CHANNEL is selected for ANALOG AUDIO, some speaker settings will be required.

- Set AUDIO MODE to ANALOG beforehand to perform this setting.

- 1 Press the **Cursor** buttons (▲ or ▼) to select MULTI CHANNEL, then press the **ENTER** button.

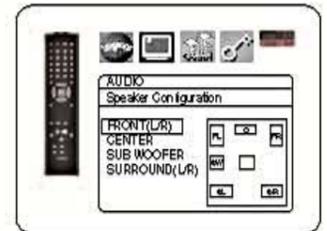


- 2 Press the **Cursor** buttons (▲ or ▼) to select the below items, then press the **ENTER** button.

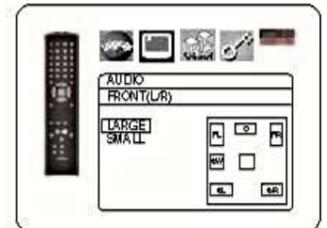
- The CUSTOM mode will appear.

Speaker Configuration

- Press the **Cursor** buttons (▲ or ▼) to select the speaker to set, then press the **ENTER** button.



- Press the **Cursor** buttons (▲ or ▼) to select the speaker size, then press the **ENTER** button.



FRONT(L/R), CENTER, SURROUND(L/R)

LARGE: Select this when the connected speaker is capable of playing back sounds of 100Hz or less.

SMALL: Select this when the connected speaker is not capable of playing back sounds of 100Hz or less.

NONE: Select this when it is not connected. (It cannot be set NONE on the FRONT speaker.)

SUB WOOFER

YES: Select this when SUB WOOFER is connected.

NONE: Select this when it is not connected.

NOTES:

- NONE is not available for SUB WOOFER when SMALL is selected for FRONT (L/R).
- SMALL is not available for FRONT (L/R) when NONE is selected for SUB WOOFER.
- ON is not available for BASS ENHANCER when NONE is selected for SUB WOOFER.
- When playing back of DVD audio, the sound may not come out as set due to restrictions in the disc or the player.

DELAY TIME

With 5.1-channel surround sound, ideally the distance between the listening position and all the speakers (exclude Sub woofer). The delay time setting can be used to make the sound from the different speakers reach the listening position at the same time.

Use the **Cursor** buttons (▲ or ▼) to select the setting item, then press the **ENTER** button.

- Press the **Cursor** buttons (▲ or ▼) to select the speaker to set, then press the **ENTER** button.



DISTANCE (Default: METERS)

METERS (when the **ENTER** button is pressed):

The unit of distance is set to meters (m).

FEET(when the **ENTER** button is pressed):

The unit of distance is set to feet (ft).

FRONT(L/R), CENTER, SURROUND(L/R)

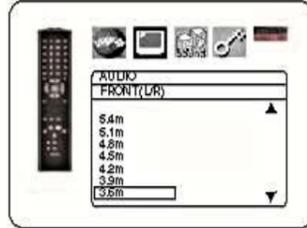
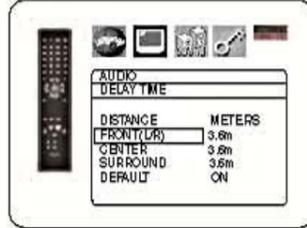
(Default: 3.6m)

FRONT(L/R):

The distance can be set within the range of 0 to 18.0m.

CENTER, SURROUND:

These depend on the setting value of FRONT(L/R).



NOTES:

- It is not possible to adjust this item if CENTER and SURROUND have been set to NONE in the Speaker Configuration setting.
- When DEFAULT is selected and the **ENTER** button is pressed, all the items are restored to their factory default settings.

CHANNEL LEVEL

When the channel level differs from each speaker, the adjustment can be made in the unit of dB (-12dB to 0dB).



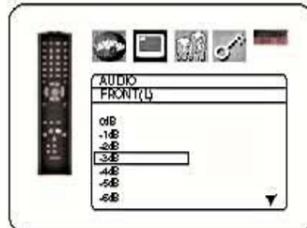
TEST TONE:

- Press the **Cursor** buttons (▲ or ▼) to select TEST TONE, then press the **ENTER** button. The test tone will output from each speaker in turn.



CHANNEL LEVEL:

- Press the **Cursor** buttons (▲ or ▼) to select the speaker to set, then press the **ENTER** button.
- Press the **Cursor** buttons (▲ or ▼) to select the desired level for each speaker, then press the **ENTER** button.



NOTES:

- While the test tone is being output, the channel balance adjustment cannot be made.
- When TEST TONE is selected, no test tone will be output from SUBWOOFER.
- It is not possible to adjust this item for the speaker that has been set to NONE in Speaker Configuration setting.

3 Press the **SETUP** button to exit.

Speaker Setting for HDMI AUDIO

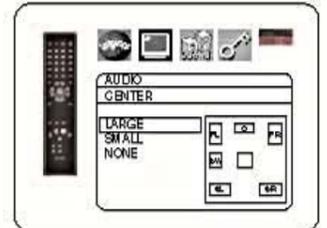
When HDMI AUDIO is selected for MULTI CHANNEL, the bass management setting menu will appear. Set the Speaker Configuration, DELAY TIME and CHANNEL LEVEL for each speakers (front, centre, surround and sub woofer).



Speaker Configuration

Set the size of each speaker between LARGE and SMALL.

- The presence of the speakers is detected automatically. Set the detected speakers' size.
- When a speaker is not detected, its size is set as NONE.
- Once a speaker is detected, you cannot set it to NONE.
- During HDMI audio output, the sound output via analogue channels may be restricted.



DELAY TIME

Same as DELAY TIME setting for "Speaker Setting for ANALOG AUDIO" on page 31.

CHANNEL LEVEL

Same as CHANNEL LEVEL setting for "Speaker Setting for ANALOG AUDIO" on this page.

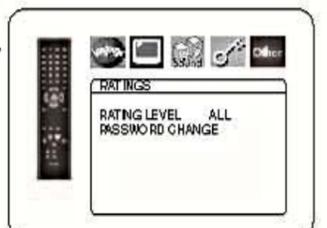
Ratings Control

Ratings Control allows you to set a limit, which prevents your children from viewing inappropriate materials on DVDs. A four-digit password that you establish will give you the control.

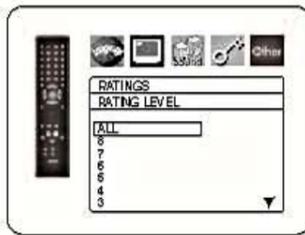
RATING LEVEL

You can set a viewing limit through Rating Level. Playback of the discs will stop if the disc's general rating exceeds the limit you set.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select CUSTOM, then press the **ENTER** button.
- 3 Press the **Cursor** buttons (◀ or ▶) to select RATINGS, then press the **ENTER** button.
- 4 Press the **Numeric** buttons to enter your four-digit password.
 - When doing this for the first time, enter any four-digit number by pressing the **Numeric** buttons (except for 4737), then press the **ENTER** button. That number will be used as the password from the second time onward. Record your password in case you forget it.
- 5 Press the **Cursor** buttons (▲ or ▼) to select RATING LEVEL, then press the **ENTER** button.



- 6 Press the **Cursor** buttons (▲ or ▼) to select a desired level, then press the **ENTER** button.
- 7 Press the **SETUP** button to exit.



NOTE:

- This function may not work on some DVDs. Be sure if the RATINGS operates in the way you have set.

To Change the Password:

- 1) Follow the steps 1 to 4 above.
- 2) Press the **Cursor** buttons (▲ or ▼) to select PASSWORD CHANGE, then press the **ENTER** button.
- 3) Enter a new four-digit password, then press the **ENTER** button.
- 4) Press the **SETUP** button to exit.

IF YOU FORGET THE PASSWORD

- 1 Press **4, 7, 3, 7** at step 4.
 - Password will be cleared and rating level will be set to ALL.
- 2 Repeat steps 4 to 7 to re-establish the parental lock.

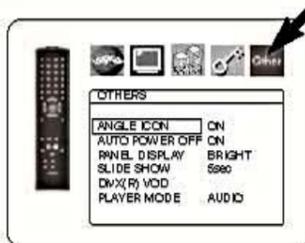
CONTROL LEVELS

- **ALL**
Parental lock is cancelled.
- **Level 8**
DVD software of any grade (adult/general/children) can be played back.
- **Levels 7 to 2**
Only DVD software intended for general use and children can be played back.
- **Level 1**
Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

Others Setting

This function allows you to adjust Angle Icon availability, Auto Power off, brightness of the player's display panel, slide show mode, DVD-Audio player mode, and to obtain DivX® registration code.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select CUSTOM, then press the **ENTER** button.
 - The CUSTOM mode will appear.
- 3 Press the **Cursor** buttons (◀ or ▶) to select Other, then press the **ENTER** button to confirm.
- 4 Press the **Cursor** buttons (▲ or ▼) to select an item, then press the **ENTER** button.



ANGLE ICON (Default: ON)

- Press the **ENTER** button repeatedly to turn ANGLE ICON ON or OFF.



AUTO POWER OFF (Default: ON)

- Press the **ENTER** button repeatedly to turn AUTO POWER OFF ON or OFF.
- It will turn off the DVD player automatically after 30 minutes of no use.



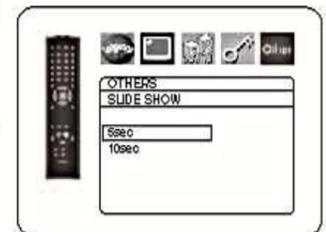
PANEL DISPLAY (Default: BRIGHT)

- Press the **Cursor** buttons (▲ or ▼) to select a setting (BRIGHT, DIMMER and AUTO), then press the **ENTER** button.
- When AUTO is selected, the display dims only during playback.



SLIDE SHOW (Default: 5sec)

- This adjusts the playback speed of the JPEG SLIDE SHOW.
- Press the **Cursor** buttons (▲ or ▼) to select between 5 sec and 10 sec, then press the **ENTER** button.



DivX(R) VOD

- This player allows you to use the DivX® Video-On-Demand (VOD) services. You can play back the files purchased or rental from the VOD services. You need to have a registration code to purchase or rental VOD files. Please visit www.divx.com/vod for more details.



PLAYER MODE (Default: AUDIO)

- Press the **ENTER** button repeatedly to select AUDIO or VIDEO.
- **AUDIO:** Select to play back general contents of DVD-Audio.
- **VIDEO:** Select to play back DVD-Video contents included in DVD-Audio.



NOTES:

- You cannot play back the DivX® VOD files obtained with different registration codes on this player.
- You cannot play back the DivX® VOD files, of which rental period has been expired. In such case, press the **MENU** button and select other files that can be played back.
- Some DivX® VOD files are restricted with the limited playable times (you cannot play them back beyond the limit). If your DivX® VOD file has such limit, the playback confirmation screen will appear. Use the **Cursor** buttons (◀ or ▶) to select YES if you want to play back the file, or to select NO if you do not wish to play it back. Then, press the **ENTER** button to confirm the selection.
- Please send your inquiries regarding the VOD files to DivX®, Inc.

- 5 Press the **SETUP** button to exit.

TROUBLESHOOTING GUIDE

If the DVD player does not perform properly when operated as instructed in these Operating Instructions, check the player, consulting the following checklist.

Problem	Solution	Page
No power	<ul style="list-style-type: none"> -Check if the AC power cord is properly connected. -Unplug the AC code once, and wait for 5-10 seconds and then plug it in again. 	- -
No sound or picture	<ul style="list-style-type: none"> -Check if the TV is turned on. -Check the video and HDMI connection. -Check the AUDIO/VIDEO cable connections to the TV. (See CONNECTIONS.) -Check if the PURE DIRECT is set to ON. If it is the case, set it to OFF. -Check if the VIDEO OUT mode is set correctly. 	- 15, 16 12-16 17 12, 29
Distorted picture	<ul style="list-style-type: none"> -Sometimes a small amount of picture distortion may appear. This is not a malfunction. -Connect the DVD player directly to the TV. -Check if the VIDEO OUT mode is set correctly. 	- 15 12, 29
Completely distorted picture or black/white picture with DVD	<ul style="list-style-type: none"> -Connect the DVD player directly to the TV. -Make sure the disc is compatible with the DVD player. 	15 6
No sound or distorted sound	<ul style="list-style-type: none"> -Adjust the volume. -Check that the speakers are connected correctly. -The HDMI sound is not output during PURE DIRECT or when AUDIO MODE is set to ANALOG. 	- 13-15 17, 31
No audio at digital output	<ul style="list-style-type: none"> -Check the digital connections. -Check the audio settings. -Digital signals cannot be output with Super Audio CDs. Use analogue connections. -Area/layer of Super audio CD being played (MULTI/STEREO/CD) does not match amplifier connections. 	13, 16 30-32 13-15 -
No image from HDMI connection	<ul style="list-style-type: none"> -Check the HDMI connection. (Check the status of the HDMI related indications.) -Check whether the connected monitor equipment or other equipment supports HDCP. (This player will not output a video signal unless the other equipment supports HDCP.) -Connect the DVD player to the display equipment using the Audio/Video cables (supplied), and check the HDMI settings. -Check whether the output format of this player (HDMI FORMAT) matches the supported input format of other connected equipment. -Check if the PURE DIRECT is set to ON. If it is the case, set it to OFF. 	16, 27 16 13-16, 30-32 16 17
Picture freezes momentarily during playback	<ul style="list-style-type: none"> -Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge. -Clean the disc. 	34 34
Disc can't be played back	<ul style="list-style-type: none"> -Clean the disc. -Ensure the disc label is facing up. -Check if the disc is defective by trying another disc. -Cancel the ratings control or change the control level. -Insert a correct disc that can be played back on this player. 	34 17 - 32-33 6
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> -Reset the player by turning it off, then on again. 	-
The DVD player does not respond to the remote control	<ul style="list-style-type: none"> -Aim the remote control directly at the sensor on the front of the player. -Reduce the distance to the player. -Replace the batteries in the remote control. -Re-insert the batteries with their polarities (+/- signs) as indicated. 	8 - 8 8

Problem	Solution	Page
Buttons do not work or the player stops responding	–To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.	–
The DVD player does not respond to some operating commands during playback	–Operations may not be permitted by the disc. Refer to the instructions of the disc.	6
The DVD player cannot read CDs/DVDs	–Use a commonly available CD/DVD cleaner to clean the lens before sending the DVD player for repair.	34
Angle does not switch	–The angle cannot be switched for DVDs which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.	28
Playback does not start when the title is selected	–Check the “RATINGS” setting.	32-33
The password for rating level has been forgotten	–Enter the default password “4737”, then your forgotten password will be cleared.	32-33

NOTES:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in these Operating Instructions for details on correct operations.
- Playback from a desired track and random playback are not available during programme playback.
- Some functions are prohibited on some discs.
- When playing back Video CDs with PBC function, some operations (e.g., select and track repeat) cannot be performed. Cancel PBC function temporarily to perform those operations. See page 17.

Printed in China
00D 511 4568 006

DENON
TOKYO, JAPAN
www.denon.com

Denon Brand Company, D&M Holdings Inc.
1VMN23183
E6BE0ED/E6BE1ED *****