

HITACHI

Inspire the Next

DVD PLAYER INSTRUCTION MANUAL

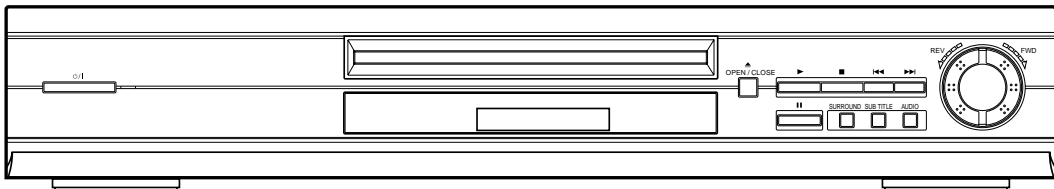


TruSurround™
by **SRS (●)®**

MODEL

DVP325E

DVP325EUK



Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

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.

LASER SAFETY

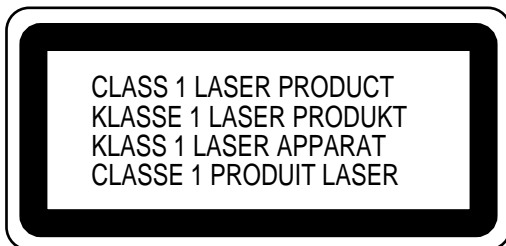
This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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

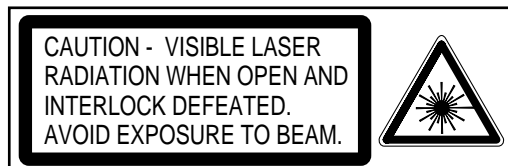
CAUTION: VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED.
AVOID EXPOSURE TO BEAM.

LOCATION:

* PRINTED ON THE BACK



* INSIDE, TOP OF THE MECHANISM



CONNECTION TO POWER (For the area of Great Britain)

Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

Mains Cord

This appliance may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a non-rewireable plug the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement available from the appliance manufacturer is obtained. It is important that the colour of the replacement fuse cover corresponds with the rating marking on the base of the plug.

If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug removed must be disposed of safely as insertion into a 13A socket is likely to cause an electrical hazard. For your own safety read the following instructions carefully before attempting to connect this unit to mains. The wires in this mains lead are coloured in accordance with the following code:

BLUE=NEUTRAL, BROWN=LIVE

Important

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

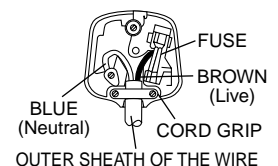
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

No connection is to be made to the earth terminal of the plug.

If a 13 Amp (BS 1363) Plug is used, a 3 Amp Fuse must be fitted, of if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.

Mains Supply: 220 - 240 V
-50 Hz - AC only

Do not make any connection to the larger pin marked with the letter "E" or by the symbol \perp or coloured green or green and yellow.



PRECAUTIONS

IMPORTANT

Use only discs marked DVD or disc with this DVD player.

POWER SUPPLY

The main power supply is engaged when the main plug is plugged in a 220-240V- 50Hz AC outlet. To operate the unit, press the STANDBY button to turn on the unit.

WARNING

To avoid fire or electric shock, do not expose this unit to rain or moisture.

WARNING:
LIVE PARTS INSIDE.
DO NOT REMOVE ANY SCREWS.

DEW WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the DVD Player at least for 2 hours until its inside is dry.

CAUTION

- 1) Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.
- 2) Slot and openings in the cabinet and at the side or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating these opening must not be blocked or covered. Avoid enclosed spaces such as book cases unless proper ventilation is provided.
- 3) Keep the unit away from the radiator heat sources.
- 4) Avoid using near strong magnetic fields.
- 5) Do not push objects of any kind into this through the cabinet slot as they could touch current carrying parts or short circuit parts resulting in a fire or electric shock.
- 6) Never spill liquid of any kind on this unit. If liquid is spilled into the unit, consult qualified service engineer.
- 7) Use this unit in a horizontal (flat) position only.
- 8) This equipment is in Stand-by mode when it turns off whilst the power cord is connected.

DECLARATION OF CONFORMITY

This product complies with the requirement of the directives

EMC-Directive:	89 / 336 / EEC
Low Voltage Directive:	73 / 23 / EEC
CE Marking:	93 / 68 / EEC

declare that the DVD player
DV-P325E/DV-P325E(UK)
are in compliance with following norms:

EN 55013:1990
+A12:1994+A13:1996+A14:1999
EN 55020:1994
+A11:1996+A12:1999+A13:1999+A14:1999
EN 61000-3-2/ 1995+A1:1998+A2:1998
EN 61000-3-2/ A14:2000
EN 61000-3-3/ 1995
EN 60065:1998
EN 60825-1:1994

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

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.

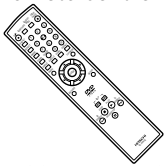
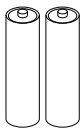
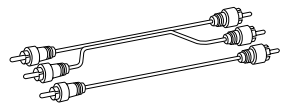
Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

ABOUT COPYRIGHT

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

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

SUPPLIED ACCESSORIES

<p>Remote control</p>  <p>TS16903 (DV-RM320)</p>	<p>Two AA batteries</p> 	<p>A/V cables</p>  <p>(approx. 3 feet (100 cm) long) (TE14751)</p>
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SYMBOLS USED IN THIS MANUAL

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

DVD

: Description refers to playback of DVD video discs.

CD

: Description refers to playback of audio CDs.

MP3

: Description refers to playback of MP3 discs.

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FEATURES

- **Dolby Digital sound**

This player can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.

- **Still/fast/slow/step playback**

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

- **Random playback for audio CD and MP3**

This player can shuffle the order of tracks to play them in random order.

- **Programme playback for audio CD and MP3**

You can programme the order of tracks to play them in any desired order.

- **DVD menus in a desired language**

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

- **Screen saver/Auto power-off functions**

The screen saver programme starts when there is no input from the player for five minutes in the stop mode. When the screen saver programme is activated for 30 minutes, the power is automatically turned off.

- **Subtitles in a desired language**

You can select a desired language for the display subtitles, if that language is available on a disc.

- **Selecting a camera angle**

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

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

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

- **Parental lock**

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

- **Automatic detection of discs**

This player automatically detects if a loaded disc is DVD, audio CD or MP3 on disc.

- **Playing an MP3 disc**

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

- **Direct Search**

You can search the 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 a TV screen, allowing you to confirm the currently active functions (such as programme playback), on the TV screen using the remote control.

- **DTS (Digital Theater System)**

Sound system different from Dolby Digital sound system.

- **Search**

Chapter search: Search for the chapter designated by user is possible.

Title search: Search for the title designated by user is possible.

Track search: Search for the track designated by user is possible.

Time search: Search for the time designated by user is possible.

- **Repeat**

Chapter: Repeated playback of the chapter of the disc being played is possible.

Title: Repeated playback of the title of the disc being played is possible.

Track: Repeated playback of the track of the disc being played is possible.

Disc (audio CD): Repeated playback is possible.

(MP3): Repeated playback is possible.

A-B: The part between A and B designated by user is possible.

Album: Repeated playback of the folder of the MP3 disc being played is possible.

- **Zoom**

2-time and 4-time magnified screen can be displayed.

- **Marker**

The part designated by user can be called back.

- **Resume Play**

User can resume to playback from the part at which the play was stopped even if the power turn off.

- **SRS TruSurround**

You can enjoy stereophonic virtual space on your existing stereo system.

- **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.

- **Dimmer**

Brightness of the display can be varied.

- **Bit rate indication**

- **DRC (Dynamic range control)**

You can control the range of sound volume.

- **Shuttle**

You can adjust the playback speed using the Shuttle Ring (the outer ring).

This unit employs TruSurround system

TruSurround[®] of SRS Labs, Inc. as virtual
by **SRS** (●) technology.



TruSurround and the (●) symbol are trademarks of SRS Labs, Inc.

TruSurround technology is incorporated under license from SRS Labs, Inc.

ABOUT THE DISCS

PLAYABLE DISCS

The following discs can be played back on this DVD player.

Disc Type	Logo	Contents	Disc Size	Maximum Playback Time
DVD Video		Sound and Pictures	12 cm	Approx. 4 h (single-sided)
				Approx. 8 h (double-sided)
			8 cm	Approx. 80 min (single-sided)
				Approx. 160 min (double-sided)
Audio CD		Sound	12 cm	74 min
			8 cm (singles)	20 min

This player conforms to the PAL/NTSC color system. You cannot play discs recorded in other colour systems such as SECAM.

- Some discs include region codes as shown below.



- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD players with the same region code.

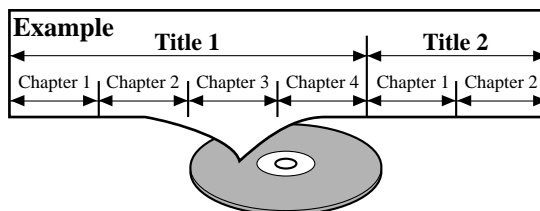
The following discs cannot be played back on this DVD player.

- DVD with region codes other than 2 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- CD-ROM
- VSD
- CDV (Only plays back the audio part.)
- CD-G (Only plays back the audio part.)
- CD-R/CD-RW (Only plays back the discs which audio CD and MP3 is recorded.)
- CD-I (Never play back, otherwise malfunction may result.)
- SACD
- Photo CD (Never play back, otherwise malfunction may result.)
- Any other discs without compatibility indications

DISC TYPES

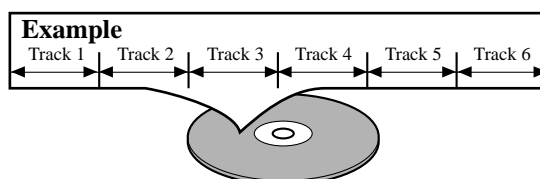
[DVD]

Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs, and these playback conditions take priority over user operations on this player. If a function you selected does not run as desired, refer to the manual accompanying the disc.



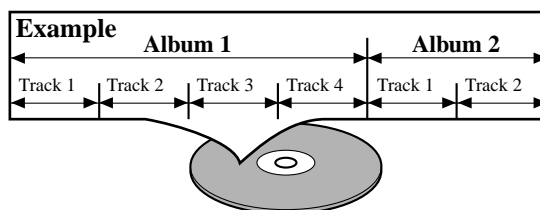
[AUDIO CD]

Data on an audio CD is divided into sections called "tracks", each of which is given a track number.



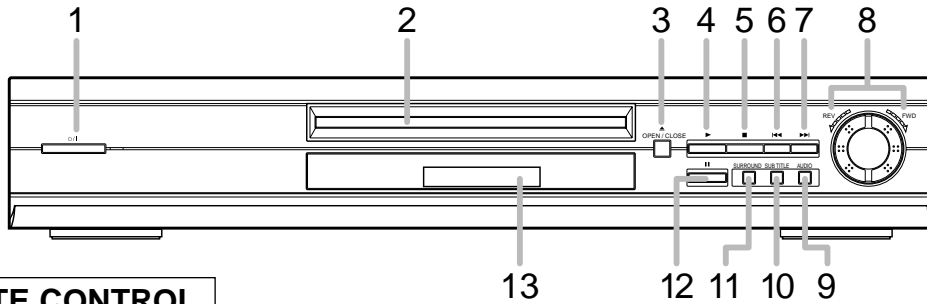
[MP3]

Data on an MP3 is divided into sections called "albums", and then into subsections called "tracks", each of which is given an album or track number.

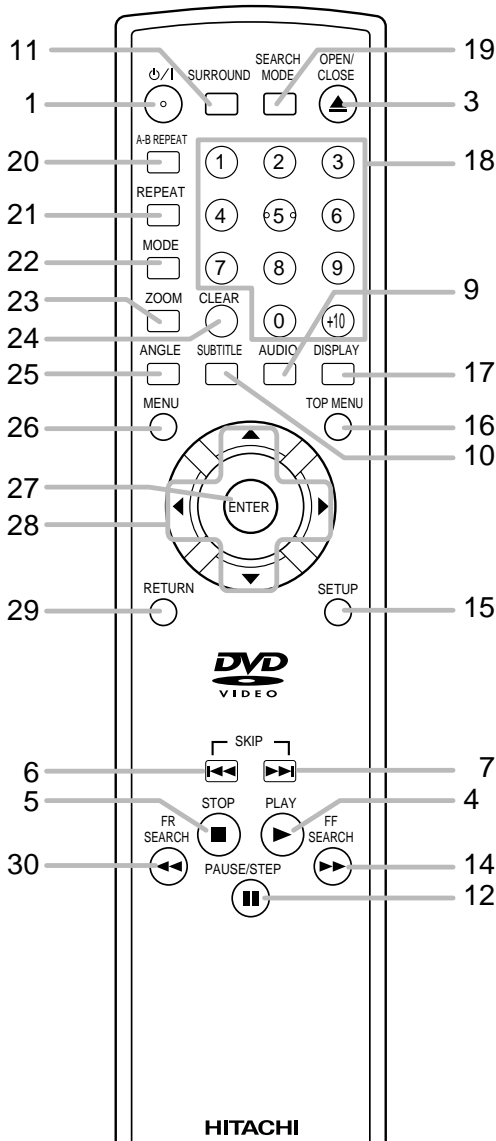


OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL



REMOTE CONTROL

















1. **⏻/I (POWER/STANDBY) Button** [page 15]
2. **Disc loading tray**
3. **OPEN/CLOSE Button** [page 15]
4. **PLAY Button** [page 15]

5. **STOP Button** [page 16]
6. **SKIP DOWN/REV Button** [page 17]
Plays back from the beginning of the current chapter or track. Hold down to fast reverse playback.
7. **SKIP UP/FWD Button** [page 17]
Plays back from the beginning of the next chapter or track. Hold down to fast forward playback.
8. **Shuttle Ring (REV/FWD)** [page 17]
Turn to make rewind or fast forward speed faster in the forward or backward direction in the Play mode or Still mode. The further the Shuttle Ring is rotated, the faster the playback speed.
9. **AUDIO Button** [page 22]
Press to select a desired audio language or sound mode.
10. **SUBTITLE Button** [page 23]
Press to select a desired subtitle language.
11. **SURROUND Button** [page 24]
12. **PAUSE/STEP Button** [page 16]
13. **Display, Remote Sensor Window**
14. **FF SEARCH Button** [page 17]
15. **SETUP Button** [page 26]
16. **TOP MENU Button** [page 16]
17. **DISPLAY Button** [page 20]
18. **Numeric Buttons** [page 17]
19. **SEARCH MODE Button** [pages 17,18]
20. **A-B REPEAT Button** [page 19]
21. **REPEAT Button** [page 18]
22. **MODE Button** [pages 18,19]
23. **ZOOM Button** [page 20]
24. **CLEAR Button** [page 18]
25. **ANGLE Button** [page 23]
Press to change the camera angle to see the sequence being played back from a different angle.
26. **MENU Button** [page 15]
27. **ENTER Button** [page 16]
28. **Arrow Buttons** [page 15]
Use when making settings while watching the display on a TV screen.
29. **RETURN Button** [page 18]
30. **FR SEARCH Button** [page 17]











Tour of the Remote Control

Buttons on remote control work in different ways for DVD and CD :

Refer to the following table for correct use.

	DVD	CD
POWER/STANDBY Button 	<ul style="list-style-type: none"> • Turns the player on and off. 	<ul style="list-style-type: none"> • Turns the player on and off.
A-B REPEAT Button <small>A-B REPEAT</small> 	<ul style="list-style-type: none"> • Marks a segment to repeat between A and B. 	<ul style="list-style-type: none"> • Marks a segment to repeat between A and B.
REPEAT Button <small>REPEAT</small> 	<ul style="list-style-type: none"> • Allows you to repeat play a Chapter or Title. 	<ul style="list-style-type: none"> • Allows you to repeat play a Track or Disc.
MODE Button <small>MODE</small> 	<ul style="list-style-type: none"> • To set black level on/off. 	<ul style="list-style-type: none"> • Allows you to programme a specific order or random playback.
ZOOM Button <small>ZOOM</small> 	<ul style="list-style-type: none"> • To magnify part of picture (x2/x4) 	—
ANGLE Button <small>ANGLE</small> 	<ul style="list-style-type: none"> • Accesses various camera angles on a disc. 	—
SUBTITLE Button <small>SUBTITLE</small> 	<ul style="list-style-type: none"> • Accesses various subtitles on a disc. 	—
AUDIO Button <small>AUDIO</small> 	<ul style="list-style-type: none"> • Accesses various audio functions on a disc. 	<ul style="list-style-type: none"> • To select STEREO, L-CH or R-CH.
DISPLAY Button <small>DISPLAY</small> 	<ul style="list-style-type: none"> • Displays the current disc mode. 	<ul style="list-style-type: none"> • Displays the current disc mode.
SURROUND Button <small>SURROUND</small> 	<ul style="list-style-type: none"> • To activate the 3D sound. 	—
SEARCH MODE Button <small>SEARCH MODE</small> 	<ul style="list-style-type: none"> • To search chapter or time. • To rapidly return to a location of disc. • Search the makers. 	<ul style="list-style-type: none"> • To search track or time. • To rapidly return to a location of disc. • Search the makers.
OPEN/CLOSE Button <small>OPEN/CLOSE</small> 	<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.
NUMBER Buttons 	<ul style="list-style-type: none"> • To select chapter directly. 	<ul style="list-style-type: none"> • To select track directly, use display function, or input programme order.
CLEAR Button <small>CLEAR</small> 	<ul style="list-style-type: none"> • Clear the makers. • Clear the number that is entered incorrectly. 	<ul style="list-style-type: none"> • Clear the makers. • Removes status No. in programme input. • Clear the number that is entered incorrectly.

Tour of the Remote Control

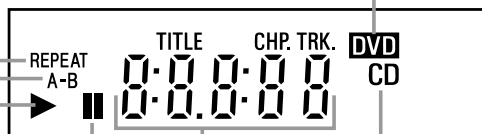
	DVD	CD
MENU Button MENU 	<ul style="list-style-type: none"> • Brings up the Menu on a disc. 	—
TOP MENU Button TOP MENU 	<ul style="list-style-type: none"> • Brings up the Top Menu on a disc. 	—
ENTER Button (UP/DOWN or LEFT/RIGHT Button) 	<ul style="list-style-type: none"> • Moves the cursor and determines its position. 	<ul style="list-style-type: none"> • Moves the cursor and determines its position.
RETURN Button RETURN 	<ul style="list-style-type: none"> • Returns to a previous menu. 	—
SETUP Button SETUP 	<ul style="list-style-type: none"> • Brings up the DVD player's Setup menu. 	<ul style="list-style-type: none"> • Brings up the DVD player's Setup menu.
SKIP Buttons SKIP 	<ul style="list-style-type: none"> • To skip Chapters. 	<ul style="list-style-type: none"> • To skip Tracks.
SEARCH Buttons FR SEARCH FF SEARCH 	<ul style="list-style-type: none"> • Allows you to search forward/backward through a disc (×2, ×8, ×30, ×60) . 	<ul style="list-style-type: none"> • Allows you to search forward/backward through a disc (×16) .
STOP Button STOP 	<ul style="list-style-type: none"> • To stop playback. 	<ul style="list-style-type: none"> • To stop playback.
PLAY Button PLAY 	<ul style="list-style-type: none"> • Begin disc play. 	<ul style="list-style-type: none"> • Begin disc play.
PAUSE/STEP Button PAUSE/STEP 	<ul style="list-style-type: none"> • Pause disc play. • Advances playback one frame at a time. 	<ul style="list-style-type: none"> • Pause disc play.

DISPLAY

Stays on when the A-B repeat function is on.

Stays on when the repeat function is on.

Lights up when a DVD is inserted on the tray.



Lights up when the inserted disc comes to a pause.

Stays on when the inserted disc is being played back.

Displays how long a current title or track has been played back. When a chapter or track has switched, the number of a new title, chapter or track is displayed.

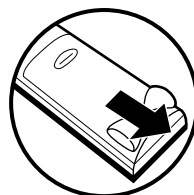
Lights up when a CD is inserted on the tray.

DISPLAYS DURING OPERATION

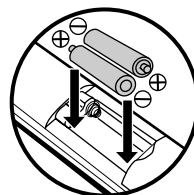
	Power on
	No disc inserted
	Tray open
	Tray closed
	Loading the Disc
	Power off

LOADING THE BATTERIES

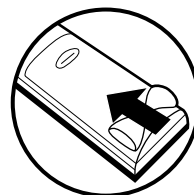
1. Open the battery compartment cover.



2. Insert two AA batteries, with each one oriented correctly.



3. Close the cover.

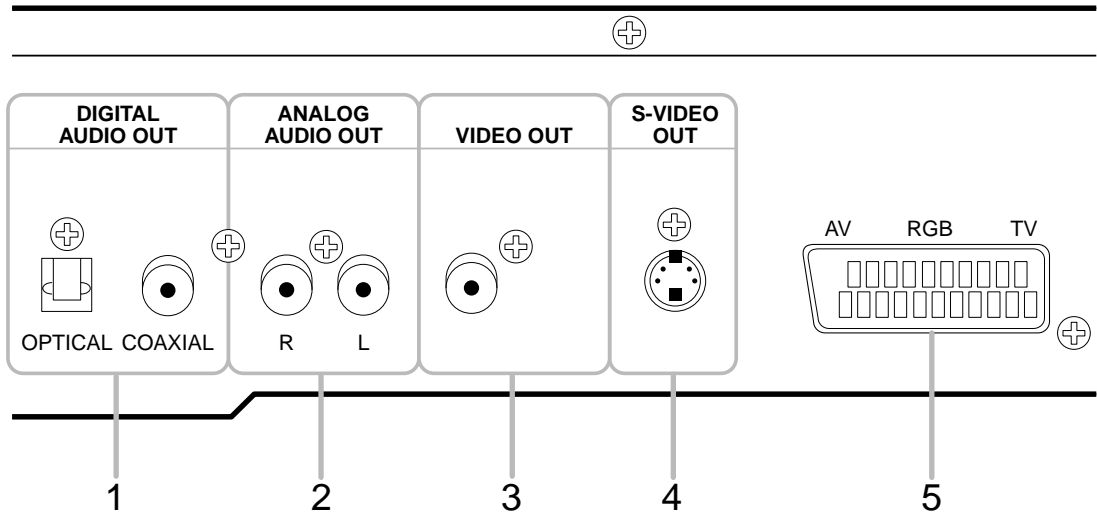


Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

HOOKUPS

DESCRIPTION-REAR PANEL



1. DIGITAL AUDIO OUT JACKS:

Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to a Dolby Digital decoder or DTS decoder.

2. ANALOG AUDIO OUT JACKS

Connect to the Audio input jacks of A/V-compatible TV or wide screen TV, Stereo system.

3. VIDEO OUT JACK

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

4. S-VIDEO OUT JACK

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

5. EURO A/V (SCART) JACK

Use the Euro audio/video cable to connect this jack to the 21 pin scart jack on your A/V-compatible TV or wide screen TV for a best quality picture.

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

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

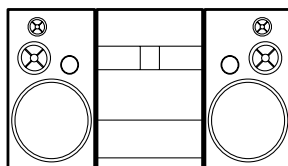
The following show examples of connections commonly used to connect the DVD player to TV and other components.

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

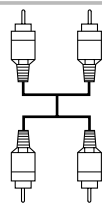
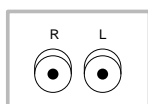
Method 2



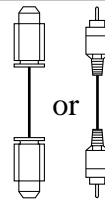
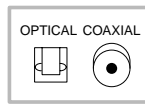
Dolby Digital decoder
or
DTS decoder

AUDIO

Audio Input Jacks



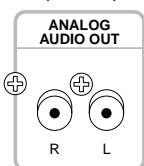
Digital Audio Input Jacks



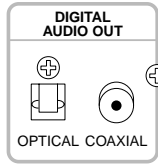
OR

DVD

Analog Audio Out



Digital Audio Out



- **Method 1** DVD Player + Stereo system
- **Method 2** DVD Player + Dolby Digital decoder or DTS decoder

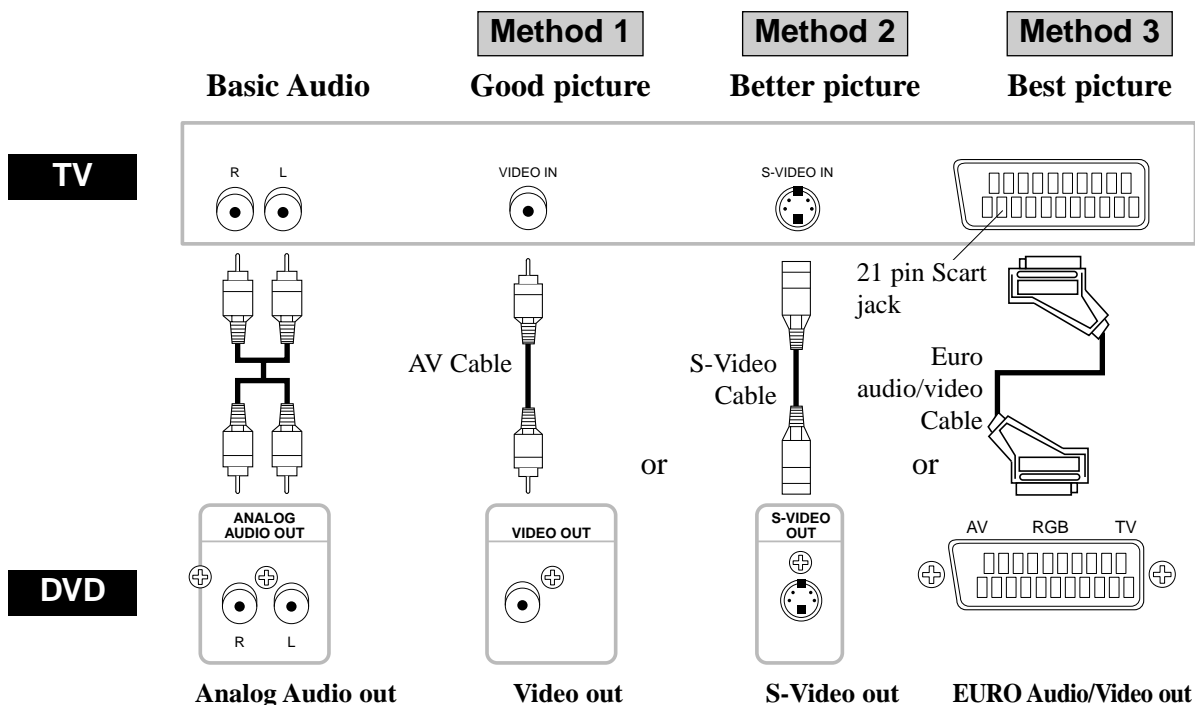
Notes

- If you use the Euro audio/video cable, it is not necessary to connect the analog audio cable.
- If output Dolby Digital audio, connect to a Dolby Digital decoder, and set Dolby Digital to on for audio output in the setup mode. (See page 27)
- If output DTS audio, connect to a DTS decoder, and set DTS to ON for audio output in the setup mode. (See page 27)
- Unless connected to a Dolby Digital decoder, or a DTS decoder, set Dolby Digital or DTS to off for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (See page 27)
- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Set Dolby Digital and DTS to off for audio output in the setup mode for method 1 only. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (Refer to page 27 to set ON for Dolby Digital and DTS)

Optical cable (not supplied)

- Optical cable (not supplied) 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 3m or shorter.
- Insert cable plugs firmly into the connectors when making connections.
- If a plug has minor scratches or is dirty, clean it with a soft cloth before inserting it into a connector.

CONNECTION TO A TV (FOR VIDEO)



- **Method 1** DVD Player + TV with Video Input Jack
- **Method 2** DVD Player + TV with S-Video Input Jack
- **Method 3** DVD Player + TV with 21 pin scart Jack

Notes

- If you use the Euro audio/video cable, it is not necessary to connect the analog audio cable.
- Connect the DVD player directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.

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

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 a commercially available Stereo Audio/Video RF Modulator, not included. 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.

PLAYING A DISC

PLAYING A DVD VIDEO OR AN AUDIO CD

DVD

CD

Getting started

Turn on the power of the TV, amplifier and any other components which are connected to the DVD player. (Change the input system to suit the DVD player, and check that the sound volume is correct.)

1 Press the POWER/STANDBY button.

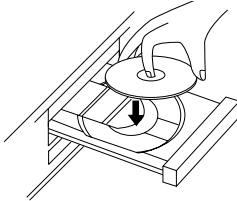
- The power will turn on.

2 Press the OPEN CLOSE button.

- The disc loading tray will open.

3 Place a disc into the tray.

- Make sure the disc is sitting properly in the correct recess, with the label side up.




4 Press the PLAY button.

- The tray will close automatically, and playback will then start from the first chapter or the first track of the disc. With some discs, if the tray has been closed by pressing the OPEN CLOSE button, You need to press the PLAY button to start the disc.
- When you playback the DVD which a title menu is recorded, it may appear on the screen. In this case, refer to “USING THE DVD MENUS” or “USING THE TITLE MENU”.

5 Press the STOP button to stop play.

Notes

- While the setup menu is shown you can not open or close the tray.
- 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. 
- If a disc is dirty or has scratches, the pictures may appear distorted and the playback operation may stop. In such cases, clean the disc and unplug the power cord and then plug it again before resuming playback.
- 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 a 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.

USING THE DVD MENUS

DVD

Some DVDs contain their own menus, such as a guidance menu which describes the contents of the disc or a selection menu for sound, language and other customized settings.

1 Press the MENU button.

- The DVD menu will appear.

2 Select the desired title.

- Press the arrow buttons (▼/▲/▶/◀) to change the setting, and then press the ENTER button.

3 Playback will start from the selected title.

USING THE TITLE MENU

DVD

With a DVD containing a title menu, you can select the desired titles from the menu.

1 Press the TOP MENU button.

- The title menu will appear.

2 Select the desired title.

- Press the arrow buttons (▼/▲/▶/◀) to select a desired title, and then press the ENTER button.

CALLING UP A MENU SCREEN DURING PLAYBACK

For DVDs

- Press the MENU button to call up the DVD menu.
- Press the TOP MENU button to call up the title menu.

Note

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

PAUSING PLAYBACK OR DISPLAYING A STILL PICTURE

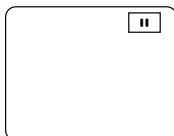
DVD

CD

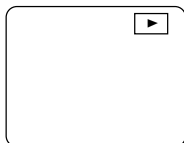
MP3

1 Press the PAUSE/STEP button during playback.

- Playback will pause, with sound muted.



2 Press the PLAY button to resume playback.



RESUMING PLAYBACK FROM THE POINT WHERE PLAYBACK STOPPED

DVD

CD

1 Press the STOP button during playback.

- Playback will stop, and then appear the resuming message at the centre.

Press 'PLAY' to play from here.
To play the beginning, press 'STOP' first
and then 'PLAY'.

2 Press the PLAY button. Playback will start from the point where the previous playback session was stopped.



Note

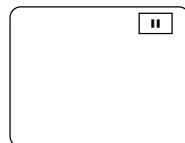
- The resume function can be reset by pressing the STOP button twice or by opening the disc loading tray.

STEPPING THROUGH FRAMES

DVD

1 Press the PAUSE/STEP button while playback is paused.

- The next picture frame is displayed with sound muted each time the button is pressed.



2 Press the PLAY button to resume playback.



FAST FORWARD/REVERSE

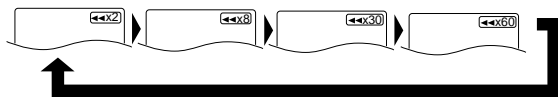
DVD

CD

1 Press the FF SEARCH ►► or FR SEARCH ◀◀ button during playback.

- For DVDs, pressing the FF SEARCH ►► or FR SEARCH ◀◀ button cycles the playback speed in four steps. In case of DVDs, the sound will mute.
- For audio CDs, the playback speed is $\times 16$ fixed.

FR SEARCH ◀◀ Button
FF SEARCH ►► Button



2 Press the PLAY button to return to normal playback speed.

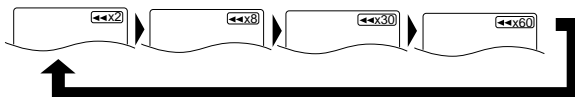
- FAST FORWARD or REVERSE from a TITLE to other TITLES is not possible.

SHUTTLE FUNCTION (Main Unit)

High speed play back

DVD

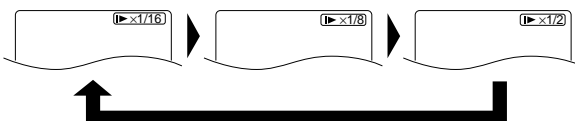
- Turn the Shuttle Ring in either direction during playback. The further the ring is rotated, the faster the playback speed in the forward (FWD) or reverse (REV) direction. Keeping the ring in the rotated position cycles the playback speed every 1.5 seconds.



For DVDs

Slow motion

- Turn the Shuttle Ring in the FWD direction while the playback is paused to activate the slow motion mode. Keeping the ring in the rotated position cycles the playback speed in three steps every 1.5 seconds. ($\times 1/16$ - $\times 1/8$ - $\times 1/2$)



- You also can activate the slow motion using the remote control.

2 Press the PLAY button to return to normal playback speed.

Notes

- Slow playback is not available with audio CDs.
- The reverse of slow playback is not available.
- Slow playback from a TITLE to other TITLES is not possible.

STARTING FROM A DESIRED TRACK

CD

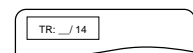
There are 2 ways you can jump to a desired track.

By using only the NUMERIC buttons.

- 1 Directly enter the desired track number with the numeric buttons when the disc is being played, stopped, or paused.

By using the 'SEARCH MODE' button.

- 1 Press 'SEARCH MODE' button.



- Track search display will show up.

- 2 Enter the desired track number with the numeric buttons (If you are entering a single digit number press "0" first).

- In either way, when you finish entering the number, the selected track will start automatically.

Notes

- If you didn't press "0" before entering the single digit number, you have to press 'ENTER' button to go to the desired track.

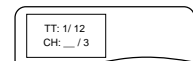
STARTING FROM A DESIRED TITLE OR CHAPTER

DVD

There are 2 ways you can jump to a desired title or a chapter.

By using the 'SEARCH MODE' button.

- 1 Press 'SEARCH MODE' button.



- Title/Chapter search display will show up.

- 2 If you wish to perform a title search, select 'TT'. If you wish to perform a chapter search, select 'CH' with ▲/▼ buttons.

- 3 Enter the desired title or chapter number with the numeric buttons (If you are entering a single digit number press "0" first).

- When you finish entering the number, the selected title or chapter will start automatically.

Notes

- If you didn't press "0" before entering the single digit number, you have to press ENTER to go to the desired title or the chapter.

By using only the NUMERIC buttons.

TITLE SEARCH:

- 1 Directly enter the desired title number with the numeric buttons when the disc is stopped.

CHAPTER SEARCH:

- 1 Directly enter the desired chapter number with the numeric buttons when the disc is being played or paused.
- When you finish entering the number, the selected title or chapter will start automatically.

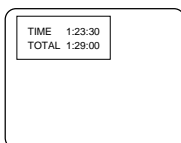
CD DVD

TRICKS WITH THE SKIP BUTTONS (◀◀, ▶▶)
If the SKIP button ▶▶ is pressed during playback or while playback is paused, the current track/chapter will be skipped and the next track/chapter will start. When the SKIP button ◀◀ is pressed once, the top of the current track/chapter will be located for replaying. When the SKIP button ◀◀ is pressed again within 2-seconds after playback begins, the previous track/chapter will be located.

STARTING FROM A DESIRED TIME COUNT

DVD CD

- 1 Press the SEARCH MODE button twice.
 - 2 Press the numeric buttons to set the desired time count.
- **Example:** 1 hour, 23 minutes and 30 seconds
1 → 2 → 3 → 3 → 0



Notes

- In the case of DVD, Time Search in Title is effective. (But Time Search in Chapter is ineffective.)
- In the case of CD, Time Search in Track is effective. (But Time Search in the entire disc is ineffective.)
- Playback from a desired time count is not available with some discs or if the unit is in stop mode.
- If wrong numbers are entered, press the CLEAR button and re-enter the correct numbers.

MARKER

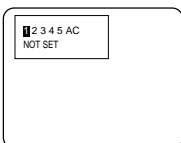
DVD CD

You can define the part to be called back.

- 1 Press the SEARCH MODE button three times during playback.

Set the marker

- Using the cursor (◀/▶) button, position the cursor on to the marker number shown as “NOT SET”. Press the ENTER button when the screen to be reviewed appears. The marked time will be displayed. Up to 5 points can be marked.



Call back the marker

- Using the cursor (◀/▶) buttons, position the cursor on to the marker number to be called back and press the ENTER button.

Clear the marker

- Using the cursor (◀/▶) buttons, position the cursor on to the marker number to be cleared and press the CLEAR button.

To clear all markers, place the cursor on “AC” (All clear markers) and press the ENTER button.

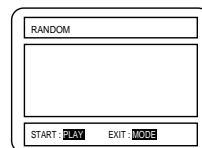
- 2 Press the SEARCH MODE button or the RETURN button to exit the display.

RANDOM (Audio CD)

CD

- 1 Press the MODE button in stop mode.
- The programme setting menu screen will appear.

- 2 Press the MODE button again.



- 3 Press the PLAY button.
Random playback will then start.

Note

- Programme playback is not available during random playback.

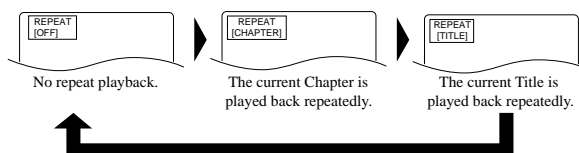
REPEAT

DVD CD

- 1 Press the REPEAT button.

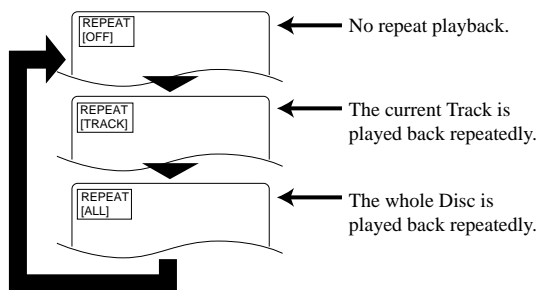
For DVDs

- A single title or chapter is played back repeatedly.
- Pressing the REPEAT button cycles the display on the screen as follows.



For audio CDs

- The whole disc or a single track is played back repeatedly.
- Pressing the REPEAT button cycles the display on the screen through **Off**, **Track** and **All**.



If the REPEAT button is pressed once during programme/random playback, the current track is played back repeatedly.
If the REPEAT button is pressed again, the programme/random playback is performed repeatedly.

Notes

- Repeat playback is not available with some discs.
- The REPEAT setting will be cleared when moving to other title, chapter or track.
- Repeat playback is not function during A-B repeat playback.

A-B REPEAT

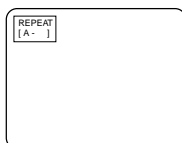
DVD

CD

You can define a section to be played back repeatedly.

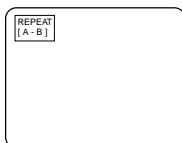
1 Press the A-B REPEAT button during playback.

- The starting point (A) will then be selected.

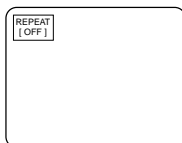


2 Press the A-B REPEAT button again at the end point (B) of the desired section.

- The selected section will be played back repeatedly.



3 To exit A-B repeat playback, press the A-B REPEAT button and set it to OFF.



Notes

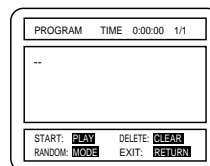
- With DVDs, the A-B repeat section can be set only within the current title.
- With audio CDs, the A-B repeat section can be set within the current track.
- A-B repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press the CLEAR button.
- A-B repeat playback is not functional during title, chapter, track or all repeat playback modes.

PROGRAMME (Audio CD)

CD

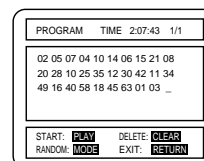
1 Press the MODE button in stop mode.

- The program screen will appear.



2 Press the numeric buttons to enter the desired track numbers.

- 50 programs can be displayed at once on the screen. Press “▼” to go to the next page.



3 Press the PLAY button.

- Playback will start in the programmed order.
- While the programme is being played back, the STOP button works as follows.
- 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)
- Programme will be cleared when you turn the power off.

TO CLEAR THE PROGRAMME

- Press the STOP button twice, and the programme will be cleared.

Notes

- Adding programmes is not possible during programme playback. You must stop the current playback before such operations can be carried out.
- Press the CLEAR button to cancel a programme. The most recently entered programme will then be deleted.
- Up to 99 programmes can be entered.
- Playback from a desired track and random playback are not available during programme playback.
- Programme settings are cleared when the power is turned off or the disc loading tray is opened.
- Press the MODE button to check the programmed setting.

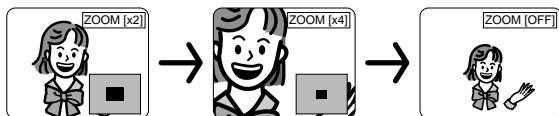
ZOOM PLAYBACK (enlargement onscreen)

DVD

Images can be enlarged on the screen to your taste.

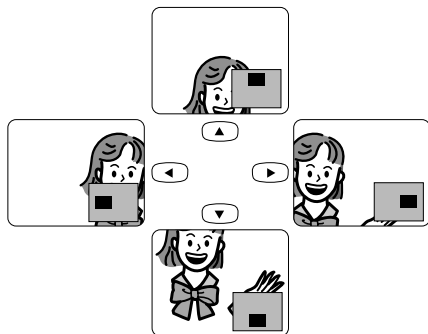
1 Press the ZOOM button during playback.

- An image will be enlarged at the centre of the screen.
- Pressing the ZOOM button cycles the zooming images in two steps.



2 When the cursor (▲/▼/◀/▶) button is pressed during zoom play, the part to be zoomed moves.

- The zooming frame can be moved from the center 4 steps to the right. 4 steps to the left. 4 steps to the top. 4 steps to the bottom when 2 time zooming, and 6 steps each when 4 time zooming.
- Current position will be displayed on the right-bottom of the screen. Press the ENTER button, and the display disappears.



Note

- Zooming function does not work while disc menu is shown.

PLAYING AN MP3 DISC

MP3

1 Insert an MP3 file-recorded disc.

- The MP3 menu screen shows up.



- “+” appears at the head of the album name.
- The player can recognize 255 ALBUMS and TRACKS altogether.
- If all the TRACKS cannot be displayed at once on the screen, “▼” appears to go to the next page. If there is a previous page, “▲” appears onscreen. On the left of “▼”, the current page and the total number of pages are displayed.

2 Press the PLAY button after the following operation.

[FIRST PLAY]

Select FIRST PLAY with ▲/▼.

[TRACK]

Select the desired TRACK with ▲/▼.

[ALBUM]

Select the desired ALBUM with ▲/▼ and call the TRACKs with ENTER button.

- Press the ENTER or ▶ button to go to the next hierarchy.
- Press the ◀ button to go back to the previous hierarchy.
- Press the TOP MENU to go back to the top hierarchy.
- ALBUMS can be played up to the 8th hierarchy.

3 To stop the play, press the STOP button.

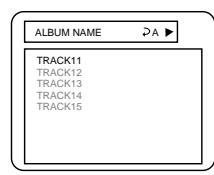
CHANGING THE ONSCREEN DISPLAY DURING MP3 DISC PLAY

MP3

The information on an MP3 disc in play can be checked.

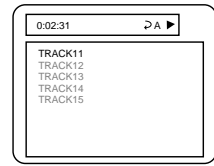
1 Press the DISPLAY button during playback.

- The TRACK currently in play will be highlighted.



2 Press the DISPLAY button again.

- The album name being displayed will be replaced by the elapsed time of the track.
- will be displayed when the repeat play has been selected.
- T : Track repeat
- A : Album (folder) repeat
- D : Disc repeat



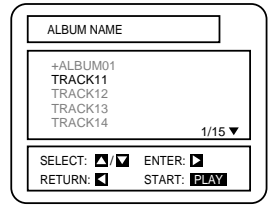
3 Press the DISPLAY button again, and the display screen disappears.

PLAYING AN MP3 DISC FROM A DESIRED TRACK

MP3

1 Press the SEARCH MODE button during playback.

- The SEARCH menu shows up.
- The TRACK currently in play or under RESUME ON will be highlighted. In the case of RESUME OFF, the first track of the disc will be highlighted.
- Press the RETURN button, and the SEARCH menu disappears.



2 Using the $\blacktriangle/\blacktriangledown$ buttons, select a track to be played. Then press the PLAY button to start playing.

Notes

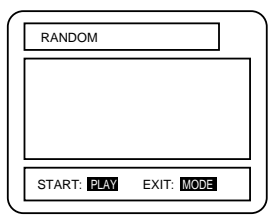
- During play, a desired track can be directly searched. Just type in the TRACK number with the numeric buttons.
- If the typed TRACK number is not available, the “disable” symbol appears and the direct search mode is cancelled.
- Playback cannot be started from a desired time count.

PLAYING AN MP3 DISC AT RANDOM

MP3

1 Press the MODE button twice in STOP mode.

- The programme setting menu screen will appear.



2 Press the PLAY button.

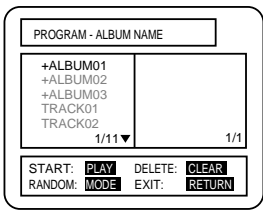
- Random play starts.

PLAYING AN MP3 DISC IN A PROGRAMMED WAY

MP3

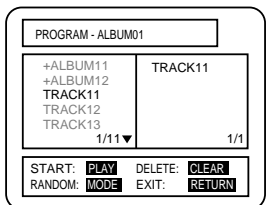
1 Press the MODE button in STOP mode.

- The programme screen shows up.



2 Use the $\blacktriangle/\blacktriangledown/\blacktriangleright/\blacktriangleleft$ to select a track. Then press the ENTER button to save it in a programme.

- When an ALBUM name is highlighted, press the \blacktriangleright button, and the next hierarchy shows up.



- Press the ◀ button to go back to the previous upper hierarchy.
- If the entire program cannot be displayed at once on the screen, “▼” appears to go to the next page.

3 When the disc has been programmed, press the **PLAY** button.

- Programmed play starts.

Notes

- Press the **CLEAR** button, and the last-programmed entry will be deleted.
- Press the **RETURN** button, and the **STOP** screen will show up with the programme contents in memory.
- The programme setting will be cancelled when the power is turned off or the disc tray is opened.
- Programme will be cleared when you turn the power off.

TO CLEAR THE PROGRAMME

- Press the **STOP** button twice, and the programme will be cleared.

SETTINGS

CHANGING THE AUDIO LANGUAGE OR SOUND MODE

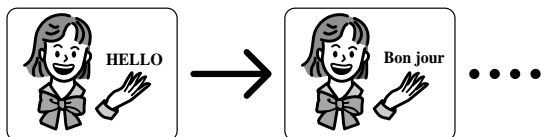
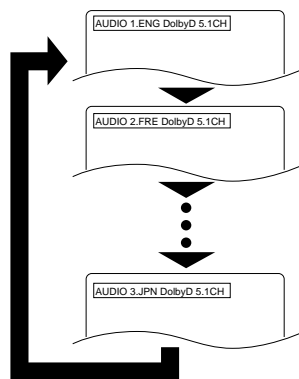
DVD **CD**

The DVD player has a function which allows you to select the desired audio language and sound mode.

For DVDs

Press the **AUDIO** button during playback, and then press the **AUDIO** button to select the desired audio language.

- The audio language can be changed if multiple languages are recorded on the DVD being played.



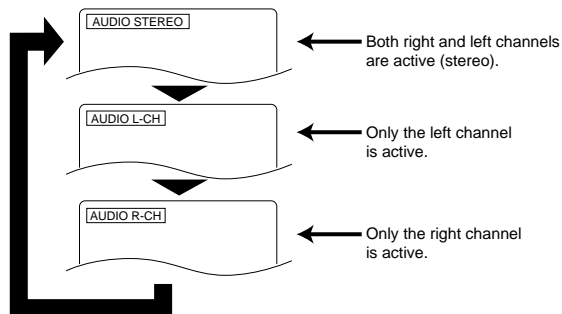
Note

- For some Audio language, three dashes (---) may appear instead of a three-letter abbreviation for the language (ENG, FRE, etc.).

For audio CDs

Press the **AUDIO** button during playback.

- Pressing the **AUDIO** button cycles the sound mode through **STEREO**, **L-CH** and **R-CH**.



Notes

- Pressing the **Audio** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu). Operation varies between discs, so refer to the manual accompanying the disc.
- Current audio language and sound mode will be displayed when you press the **AUDIO** button at first.
- If a desired language is not shown after pressing the **Audio** button several times, the disc does not have an audio source in that language.
- The audio language resets to the one which has been selected in the setup mode, every time the power is turned on or discs are replaced. If that language is not available on a disc, a language defined by the disc is selected.
- The screen display will disappear after about 5 seconds.
- If you use **DIGITAL AUDIO OUT** jack, the sound mode of audio CDs can not be changed.

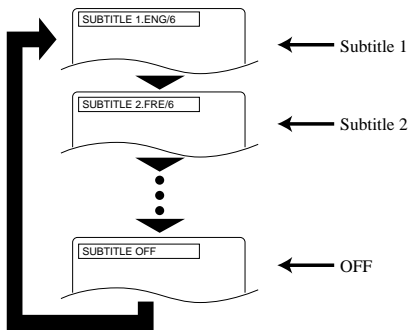
CHANGING THE SUBTITLE LANGUAGE

DVD

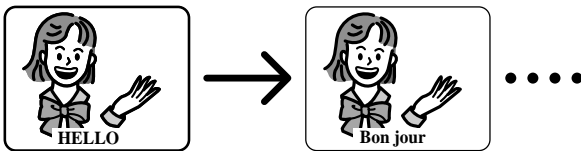
The DVD player has a function which allows you to select the desired language for subtitles.

1 Press the **SUBTITLE** button during playback, and then press the **SUBTITLE** button to select the desired subtitle language.

- The subtitle language can be changed if the subtitles are recorded in multiple languages on the DVD being played.
- The subtitle language cannot be changed if the subtitles are recorded in a single language on the DVD being played.



- Pressing the **SUBTITLE** button cycles the subtitle language from **SUBTITLE 1**, **SUBTITLE 2** and all the languages recorded.
- Current subtitle mode will be displayed when you press the **SUBTITLE** button at first.
- Press the **SUBTITLE** button, and then press the cursor (◀/▶) button to set it to on or off.



Notes

- For some Audio language, three dashes (---) may appear instead of a three-letter abbreviation for the language (ENG, FRE, etc.).
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing the **SUBTITLE** button several times, the disc does not have subtitles in that language.

- The subtitle language resets to the one which has been selected in the setup mode, every time the power is turned on or discs are replaced. If that language is not available on a disc, a language defined by the disc is selected.
- It may take time to display the subtitles in the selected language.
- The screen display will disappear after about 5 seconds.
- When “SUBTITLE NOT AVAILABLE” appears onscreen, it means no subtitle is recorded on the scene.

CHANGING THE CAMERA ANGLE (Multi-Angle Pictures)

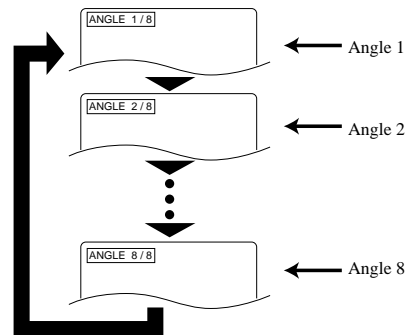
DVD

The DVD player has a function which allows you to select the desired camera angle.

1 Press the **ANGLE** button during playback.

- If the disc contains sequences recorded from different camera angles, the angle icon (📷) will appear at the top-right of the screen. You can change the camera angle when the icon appears on the screen.
- The camera angle cannot be changed if the disc does not contain sequences recorded from different camera angles.

2 Press the **ANGLE** button while the angle number is shown on the screen.



Notes

- The screen display will disappear after about 5 seconds.
- Current camera angle will be displayed when you press the **ANGLE** button at first.

CHANGING THE ON-SCREEN DISPLAY

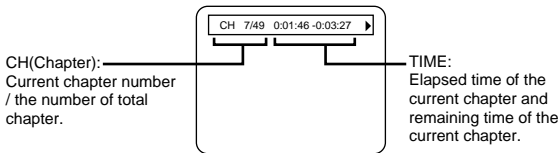
DVD

CD

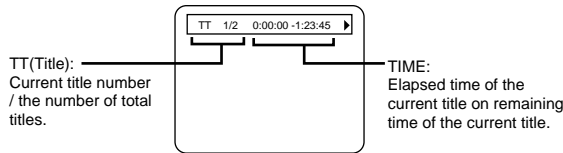
You can check the information about the disc by pressing the DISPLAY button on the remote control.

For DVDs

1 Press the DISPLAY button during playback.

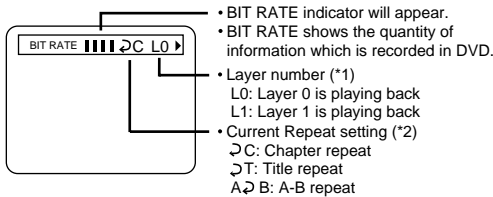


2 Press the DISPLAY button again.



- Use the number button to start from a desired chapter.

3 Press the DISPLAY button again.

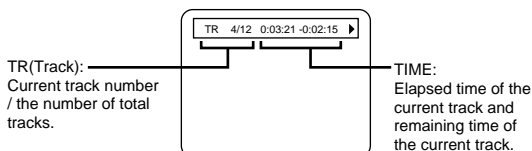


- *1) It appears when the layered disc is playing back
- *2) It appears when Repeat play back is set.

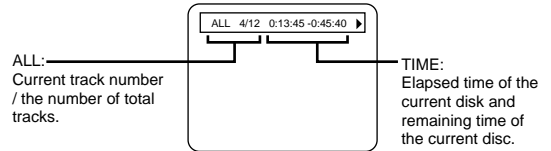
4 Press the DISPLAY button or the RETURN button to exit the display.

For audio CDs

1 Press the DISPLAY button during playback.



2 Press the DISPLAY button again.



- Use the number button to start from a desired track.

3 Press the DISPLAY button to exit the display.

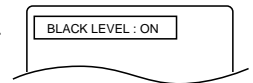
BLACK LEVEL SETTINGS

DVD

You can set to make the black parts of the picture brighter.

1 Press the MODE button during playback.

- The setup screen will appear.



2 Press the ENTER button to set it on or off.

- ON : It makes the dark parts brighter.(Default : ON)
- OFF : Original picture which is recorded on the disc will be shown.
- Press the RETURN button to exit the display.

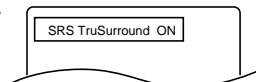
TRUSURROUND SETTINGS

DVD

You can enjoy stereophonic sound system when you playback Dolby Digital, PCM 48kHz and MPEG sound.

1 Press the SURROUND button during playback.
or
Press the MODE button twice.

- The setup screen will appear.



2 Press the SURROUND button to turn it on or off.
or
Press the ENTER button.

ON : SRS TruSurround on (Default : OFF)

OFF : SRS TruSurround off

- Press the RETURN button to exit the display.
- SRS TruSurround is available only when the DVD player is connected to a TV or stereo using the red and white AUDIO OUT jacks on the DVD player.

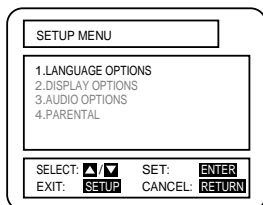
CHANGING THE SETUP ITEMS

LANGUAGE SETTINGS

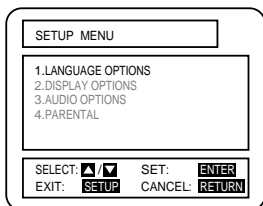
DVD

1 Press the **SETUP** button in **STOP** mode.

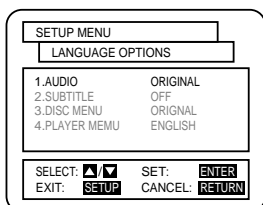
- The setup screen will appear.



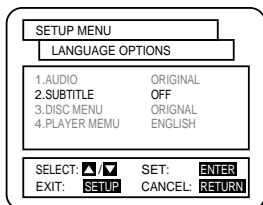
2 Press the **▲/▼** buttons to select Language, and then press the **ENTER** button.



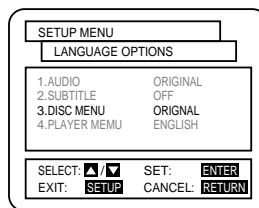
3 Press the **▲/▼** buttons to select an item, and then press the **ENTER** button.



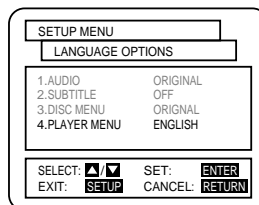
AUDIO:
(Voice is played back in selected language.)



SUBTITLE:
(Subtitles are shown in selected language.)



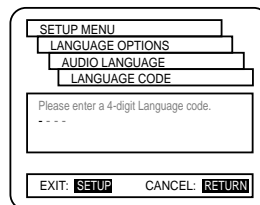
DISC MENU:
(The disc menu appears in selected language.)



PLAYER MENU:
(The on-screen display appears in selected language.)

4 Press the **▲/▼** buttons to select a desired item, and then press the **ENTER** button.

- If “OTHER” is selected on the “AUDIO LANGUAGE” “SUBTITLE LANGUAGE” or “DISC MENU LANGUAGE” setting screen, the Language Code setting screen will appear. Press the numeric buttons to enter the desired language code while referring to the list on page 29.



5 Press the **SETUP** button.

- The setup mode will be canceled and the ordinary screen will appear.

Notes

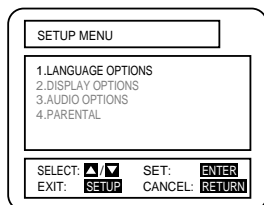
- Language Setting for Audio and Subtitle is not available with some discs. Then use the Audio and Subtitle button. Details are on pages 22 and 23.
- You can also select the item by pressing the numbers which are displayed with the item.
- When you change the setup items, press the **STOP** button if you are in playback mode.
- While the setup menu is shown you can not open or close the tray.

DISPLAY SETTINGS

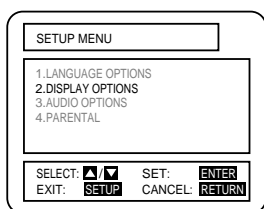
DVD

1 Press the **SETUP** button in **STOP** mode.

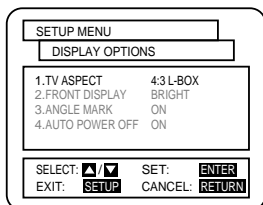
- The setup screen will appear.



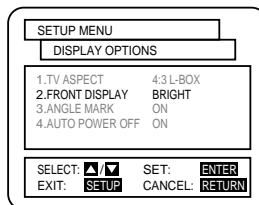
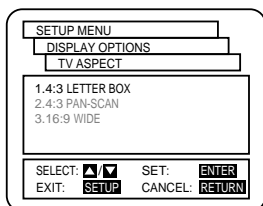
2 Press the **▲/▼** buttons to select **DISPLAY** and then press the **ENTER** button.



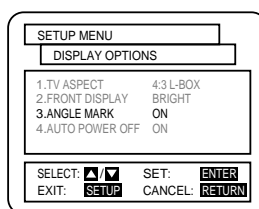
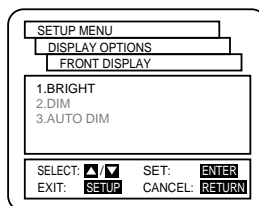
3 Press the **▲/▼** buttons to select an item, and then press the **ENTER** button.



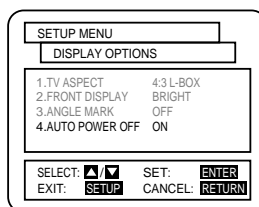
TV ASPECT
(Default : LETTER BOX)
4:3 L-BOX: Wide screen with black bars on top and bottom
4:3 PAN-SCAN : Full height picture, trimmed both sides
16:9 WIDE : If wide screen TV is connected



FRONT DISPLAY (Default : BRIGHT)
Adjust the brightness of the display of the unit.
AUTO DIM: Stays dim only during playback.



ANGLE MARK (Default : ON)
Display or not display the Angle icon on the screen.



AUTO POWER OFF (Default : ON)
Set or not set to turn off after the screen saver is started and no keys are pressed for 30 minutes.

4 Press the **▲/▼** buttons to select a desired item, and then press the **ENTER** button.

5 Press the **SETUP** button.

- The setup mode will be canceled and the ordinary screen will appear.

Notes

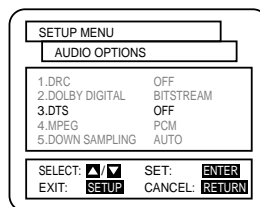
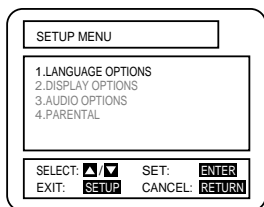
- Be sure to press the **SETUP** button, or the setting will not work.
- You can also choose the item by pressing the numbers.
- While the setup menu is shown you can not open or close the tray.

AUDIO SETTINGS

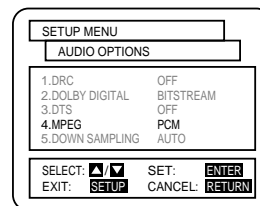
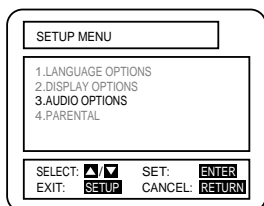
DVD

1 Press the **SETUP** button in **STOP** mode.

- The setup screen will appear.



2 Press the **▲/▼** buttons to select **Audio** and then press the **ENTER** button.



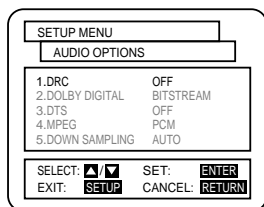
3 Press the **▲/▼** buttons to select an item, and then press the **ENTER** button.

DRC (Default : OFF)

On : **DRC**

(Dynamic Range Control)

- This function is for controlling the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night and but also to raise the volume of low sound.
- This function is effective only for the sound recorded by Dolby Digital recording.



DTS (Default : OFF)

BITSTREAM : Output DTS sound

Set to **BITSTREAM** when the unit is connected to DTS Decoder.

MPEG (Default : PCM)

BITSTREAM : Output MPEG sound

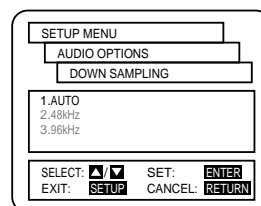
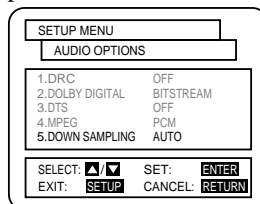
Set to **BITSTREAM** when the unit is connected to MPEG Decoder. To turn off MPEG, set at **PCM**.

DOWN SAMPLING (Default : AUTO)

Set the output for the **DVD**

recorded in **PCM 96 kHz** (96 kHz or 48 kHz, or **AUTO**)

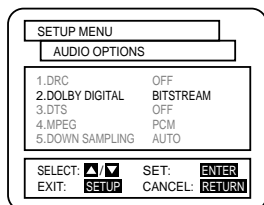
- Press the **▲/▼** buttons to select an item, and then press the **ENTER** button.



Dolby Digital (default : BITSTREAM)

BITSTREAM : Output by Dolby Digital

Set to **BITSTREAM** when the unit is connected to Dolby Digital Decoder. To turn off Dolby Digital, set at **PCM**.



When playing a disc with copyright protection

- If you select 96 kHz, copyright protection will be activated and no sound will come out. If you select **AUTO**, sound will be down sampled at 48 kHz.

4 Press the **SETUP** button.

- The setup mode will be canceled and the ordinary screen will appear.

Note

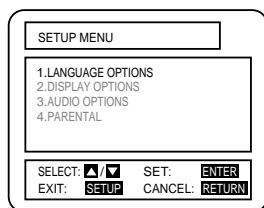
- While the setup menu is shown you can not open or close the tray.

PARENTAL LOCK

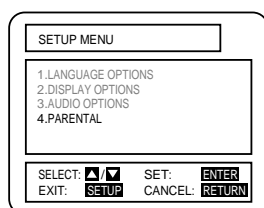
DVD

1 Press the **SETUP** button in **STOP** mode.

- The setup screen will appear.

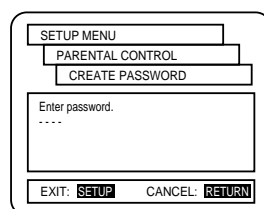


2 Press the **▲/▼** buttons to select **PARENTAL**, and then press the **ENTER** button.



3 Press the numeric buttons to enter the 4-digit password, and then press the **ENTER** button.

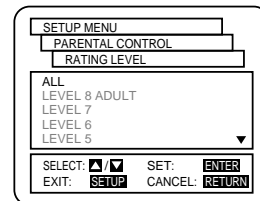
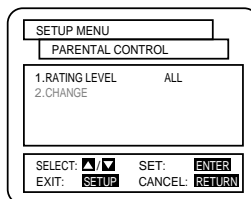
- When doing this for the first time, enter any 4 digits. (except for 4737) That number will be used as the password from the second time onward.
- By entering the password, you can then change the control level and password settings.
- When change is selected, press the numeric buttons to enter the 4 digits password. Then press the **ENTER** button.



4 Press the **▲/▼** buttons to select an item, and then press the **ENTER** button.

When Parental Level is selected

- Press the **▲/▼** buttons to select an item from **ALL** or **8 to 1**, and then press the **ENTER** button.



5 Press the **SETUP** button.

- The setup mode will be canceled and the ordinary screen will appear.

CONTROL LEVELS

- **ALL**
All parental lock is cancelled.
- **Level 8 ADULT**
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 KIDS SAFE**
Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

Notes

- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- While the setup menu is shown you can not open or close the tray.

IF YOU FORGET THE PASSWORD

- 1) Press the 4, 7, 3, 7 at step 3.
 - Password will be cleared and parental level will be set to **ALL**.
- 2) Proceed the above steps 3-5 again.

LANGUAGE CODE LIST

No.	Language	Country code	No.	Language	Country code
1	Afar	4 7 4 7	69	Latvian;Lettish	5 8 6 8
2	Abkhazian	4 7 4 8	70	Malagasy	5 9 5 3
3	Afrikaans	4 7 5 2	71	Maori	5 9 5 5
4	Amharic	4 7 5 9	72	Macedonian	5 9 5 7
5	Arabic	4 7 6 4	73	Malayalam	5 9 5 8
6	Assamese	4 7 6 5	74	Mongolian	5 9 6 0
7	Aymara	4 7 7 1	75	Moldavian	5 9 6 1
8	Azerbaijani	4 7 7 2	76	Marathi	5 9 6 4
9	Bashkir	4 8 4 7	77	Malay	5 9 6 5
10	Byelorussian	4 8 5 1	78	Maltese	5 9 6 6
11	Bulgarian	4 8 5 3	79	Burmese	5 9 7 1
12	Bihari	4 8 5 4	80	Nauru	6 0 4 7
13	Bislama	4 8 5 5	81	Nepali	6 0 5 1
14	Bengali;Bangla	4 8 6 0	82	Dutch [DUT]	6 0 5 8
15	Tibetan	4 8 6 1	83	Norwegian [NOR]	6 0 6 1
16	Breton	4 8 6 4	84	Occitan	6 1 4 9
17	Catalan	4 9 4 7	85	(Afan)Oromo	6 1 5 9
18	Corsican	4 9 6 1	86	Oriya	6 1 6 4
19	Czech	4 9 6 5	87	Panjabi	6 2 4 7
20	Welsh	4 9 7 1	88	Polish	6 2 5 8
21	Danish [DAN]	5 0 4 7	89	Pashto;Pushto	6 2 6 5
22	German [GER]	5 0 5 1	90	Portuguese [POR]	6 2 6 6
23	Bhutani	5 0 7 2	91	Quechua	6 3 6 7
24	Greek [GRE]	5 1 5 8	92	Rhaeto-Romance	6 4 5 9
25	English [ENG]	5 1 6 0	93	Kirundi	6 4 6 0
26	Esperanto	5 1 6 1	94	Romanian [RUM]	6 4 6 1
27	Spanish [SPA]	5 1 6 5	95	Russian [RUS]	6 4 6 7
28	Estonian	5 1 6 6	96	Kinyarwanda	6 4 6 9
29	Basque	5 1 6 7	97	Sanskrit	6 5 4 7
30	Persian	5 2 4 7	98	Sindhi	6 5 5 0
31	Finnish [FIN]	5 2 5 5	99	Sangho	6 5 5 3
32	Fiji	5 2 5 6	100	Serbo-Croatian	6 5 5 4
33	Faroese	5 2 6 1	101	Singhalese	6 5 5 5
34	French [FRE]	5 2 6 4	102	Slovak	6 5 5 7
35	Frisian	5 2 7 1	103	Slovenian	6 5 5 8
36	Irish [IRI]	5 3 4 7	104	Samoa	6 5 5 9
37	Scots Gaelic	5 3 5 0	105	Shona	6 5 6 0
38	Galician	5 3 5 8	106	Somali	6 5 6 1
39	Guarani	5 3 6 0	107	Albanian	6 5 6 3
40	Gujarati	5 3 6 7	108	Serbian	6 5 6 4
41	Hausa	5 4 4 7	109	Siswat	6 5 6 5
42	Hindi	5 4 5 5	110	Sesotho	6 5 6 6
43	Croatian	5 4 6 4	111	Sundanese	6 5 6 7
44	Hungarian [HUN]	5 4 6 7	112	Swedish [SWE]	6 5 6 8
45	Armenian	5 4 7 1	113	Swahili	6 5 6 9
46	Interlingua	5 5 4 7	114	Tamil	6 6 4 7
47	Interlingue	5 5 5 1	115	Telugu	6 6 5 1
48	Inupiak	5 5 5 7	116	Tajik	6 6 5 3
49	Indonesian	5 5 6 0	117	Thai	6 6 5 4
50	Icelandic [ICE]	5 5 6 5	118	Tigrinya	6 6 5 5
51	Italian [ITA]	5 5 6 6	119	Turkmen	6 6 5 7
52	Hebrew	5 5 6 9	120	Tagalog	6 6 5 8
53	Japanese	5 6 4 7	121	Setswana	6 6 6 0
54	Yiddish	5 6 5 5	122	Tonga	6 6 6 1
55	Japanese [JPN]	5 6 6 9	123	Turkish [TUR]	6 6 6 4
56	Georgian	5 7 4 7	124	Tsonga	6 6 6 5
57	Kazakh	5 7 5 7	125	Tatar	6 6 6 6
58	Greenlandic	5 7 5 8	126	Twi	6 6 6 9
59	Cambodian	5 7 5 9	127	Ukrainian	6 7 5 7
60	Kannada	5 7 6 0	128	Urdu	6 7 6 4
61	Korean [KOR]	5 7 6 1	129	Uzbek	6 7 7 2
62	Kashmiri	5 7 6 5	130	Vietnamese	6 8 5 5
63	Kurdish	5 7 6 7	131	Volapuk	6 8 6 1
64	Kirghiz	5 7 7 1	132	Wolof	6 9 6 1
65	Latin	5 8 4 7	133	Xhosa	7 0 5 4
66	Lingala	5 8 6 0	134	Yoruba	7 1 6 1
67	Laothian	5 8 6 1	135	Chinese [CHI]	7 2 5 4
68	Lithuanian	5 8 6 6	136	Zulu	7 2 6 7

If you choose a Language that has a 3 letter language code, the code will be displayed everytime you change the Audio or Subtitle language setting on pages 22 and 23. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

TROUBLESHOOTING GUIDE

If the DVD player does not perform properly when operated as instructed in this Instruction Manual, check the player by consulting the following checklist.

Symptom	Cause	Remedy
No power	<ul style="list-style-type: none"> ● Loose power plug. 	<ul style="list-style-type: none"> ● Insert the power plug firmly into the wall outlet. ● Unplug the outlet once, and wait for 10 minutes, and then plug it in again.
The player does not respond to the remote control.	<ul style="list-style-type: none"> ● The remote control is not aimed at the sensor on the player. ● Obstacles present between the remote control and the sensor. ● The remote control is too far away from the player. ● Dead batteries. 	<ul style="list-style-type: none"> ● Aim the remote control directly at the sensor on the player. ● Remove the obstacles from the signal path. ● Use the remote control within 7m of the player. ● Replace the batteries.
No picture	<ul style="list-style-type: none"> ● Loose video connection. ● Wrong disc. 	<ul style="list-style-type: none"> ● Connect the video cables firmly. ● Insert a correct video disc that plays on this player.
Disc cannot be played	<ul style="list-style-type: none"> ● No disc. ● Dirty disc. ● Disc is placed upside down. ● Parental lock is active. 	<ul style="list-style-type: none"> ● Insert a disc. ● Clean the disc. ● Place the disc correctly, with the label side up. ● Cancel the parental lock or change the control level.
No sound	<ul style="list-style-type: none"> ● Loose audio connection. ● The power of the connected audio component is off. ● Wrong audio output settings. ● Wrong input settings on the connected audio component. 	<ul style="list-style-type: none"> ● Connect the audio cables firmly. ● Turn the power of the audio component on. ● Correct the audio output settings. ● Correct the input settings on the audio component.
Distorted picture	<ul style="list-style-type: none"> ● Copy protection is active. ● Immediately after playing, press fast forward or in reverse. ● The 1st layer is switching to the 2nd layer, when playing a two layered disc. 	<ul style="list-style-type: none"> ● Connect the player directly to the TV. ● There are some cases where pictures may be slightly distorted, which are not a sign of a malfunction. ● Although Pictures may stop for a moment, this is not a malfunction.
Audio or subtitle language does not match the setup.	<ul style="list-style-type: none"> ● The selected language is not available for audio or subtitles on the DVD. 	<ul style="list-style-type: none"> ● No malfunction.
The camera angle cannot be changed.	<ul style="list-style-type: none"> ● The DVD does not contain sequences recorded from different camera angles. 	<ul style="list-style-type: none"> ● No malfunction.
Audio or subtitle language cannot be changed.	<ul style="list-style-type: none"> ● The DVD does not contain audio source or subtitles in the selected language. 	<ul style="list-style-type: none"> ● No malfunction.
“Prohibited icon” appears on the screen, prohibiting an operation.	<ul style="list-style-type: none"> ● That operation is prohibited by the player or disc. 	<ul style="list-style-type: none"> ● No malfunction.
The tray cannot be open or close.	<ul style="list-style-type: none"> ● The setup menu is displayed. 	<ul style="list-style-type: none"> ● Cancel the setup mode.

Notes

Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Instruction Manual for details on correct operations.

- Playback from a desired track and random playback are not available during programme playback.

HANDLING PRECAUTIONS

SERVICING

Should your DVD player become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord, and please call our help line to locate an Authorised Service Centre.

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the DVD player with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the DVD player. Such chemicals may cause damage and discoloration to the exposed surfaces.

IF THE LASER OPTICAL PICKUP UNIT IS DIRTY

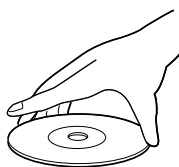
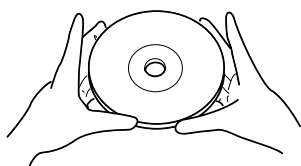
- If the player still does not perform properly when it is operated while referring to the relevant sections and to “TROUBLESHOOTING GUIDE” in this Instruction Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorised Service Centre for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

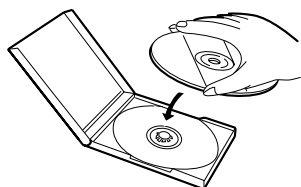
- Use discs which have the following logos on them. (Optical audio digital discs.)



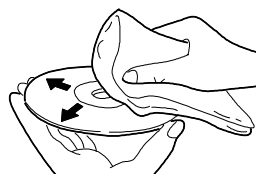
- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.



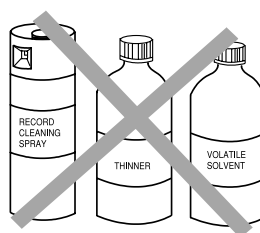
- Always store the disc in its protective case when it is not used.



- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe with a circular motion.



- Do not use detergent or abrasive cleaning agents.



SPECIFICATIONS

Product type :	DVD Player
Discs :	DVD video Audio CD
Output signal format :	PAL colour
Frequency response	
DVD (linear sound) :	20 Hz to 22 kHz (sample rate: 48 kHz) 20 Hz to 44 kHz (sample rate: 96 kHz)
CD :	20 Hz to 20 kHz
Signal-to-noise ratio (S/N ratio)	
CD :	110 dB (JEITA)
Dynamic range	
DVD (linear sound) :	95 dB
CD :	94 dB (JEITA)
Total distortion factor	
CD :	0.005% (JEITA)
Wow and flutter :	Below the measurement limitation (+/-0.001% W PEAK) (JEITA)
Connections	
S-Video output :	Mini DIN 4-pin jack (75 ohm)
Video output :	One RCA connector/EURO A/V jack, 1 Vpp (75 ohm)
Coaxial digital audio output :	One pin jack, 500mVpp (75 ohm)
Analog audio output :	Two RCA connectors (one left channel, one right channel)/EURO A/V jack, 2 Vrms (47 kilo-ohm)
RGB video output :	EURO A/V jack(R)/(G)/(B), 714mVpp (75 ohm)
Optical digital audio output :	Optical connector
Power source :	AC 220-240 V, 50 Hz
Power consumption :	14 W (standby: 2.2 W)
Operating temperature :	5°C to 40°C
Dimensions :	W 17-1/8" (435 mm) H 2-15/16" (75 mm) D 8-1/2" (216 mm)
Weight :	4.63 lbs (2.1 kg)

- Designs and specifications are subject to change without notice.
- If there is a discrepancy between languages, the default language will be English.

Used correctly, domestic batteries are a safe and dependable source of portable power. Problems can occur if they are misused or abused — resulting in leakage or, in extreme cases, fire or explosion. Here are some simple guidelines to safe battery use designed to eliminate any such problems.

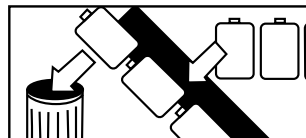


ALWAYS



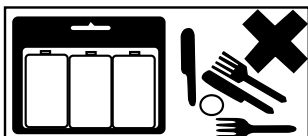
Take care to fit your batteries correctly, observing the plus and minus marks on the battery and appliance. Incorrect fitting can cause leakage or in extreme cases, fire or even an explosion.

ALWAYS



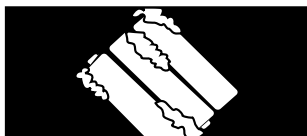
Replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this can result in leakage or in extreme cases, fire or even an explosion.

ALWAYS



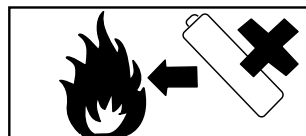
Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.

ALWAYS



Remove dead batteries from equipment and all batteries from equipment you know you are not going to use for a long time. Otherwise the batteries may leak and cause damage.

NEVER



Never dispose of batteries in fire as this can cause them to explode. Please put dead batteries in with the normal household waste.

NEVER



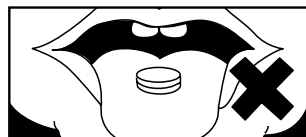
Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak cause fire or even explode. There are special rechargeable batteries which are clearly marked as such.

ALWAYS



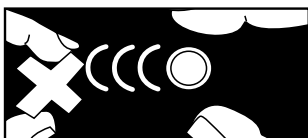
Supervise children if they are replacing batteries themselves in order to ensure these guidelines are followed.

NEVER



Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, are easily swallowed by young children and this can be dangerous.

ALWAYS



Keep loose button cells away from young children.

ALWAYS



Make sure battery compartments are secure.

ALWAYS



Seek medical advice if you believe a cell has been swallowed.

TABLE OF CONTENTS

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

★★★★★★★★★★

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions.

Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

★★★★★★★★★★

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fix the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

--NEVER let anyone especially children push anything into holes, slots or any other opening in the case — this could result fatal electrical shock:

--NEVER guess or take chances with electrical equipment of any kind.

--it is better to be safe than sorry!

★★★★★★★★★★

HITACHI

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Minato-ku, Tokyo 105-8430, Japan.

Tel: 3 3502 2111

HITACHI-YOUR GUARANTEE OF EXCELLENCE (for UK only)

For the period of 12 MONTHS from the date of purchase your product has the benefit of our FULL PARTS AND LABOUR GUARANTEE as detailed below.

We undertake to replace or repair any part of the product which fails due to manufacturing defect within 12 months of the date of purchase provided that:

- 1) The product has been installed and used only in accordance with the instructions supplied with the product.
- 2) The product has not been repaired, maintained, or modified by any person other than our authorised Engineer.
- 3) The product serial number is not removed or altered.

This guarantee does not apply to products acquired secondhand or for commercial or communal use.

This guarantee does not extend to user control adjustments, battery replacement and aerial adjustment.

Any parts replaced under guarantee shall become the property of Hitachi Home Electronics (Europe) Ltd.

Please note that evidence of the date of purchase will be required before service under guarantee is carried out.

This guarantee does not affect your statutory rights. In all cases of difficulty consult your Hitachi dealer.

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