TOSHIBA

DVD PLAYER

OWNER'S MANUAL

MODEL : SD-530ESE

DVD VIDEO/AUDIO | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO | MP3 | dts DIGITAL OUT

DOLBY DIGITAL | 3D Surround Sound | Designed for Windows Media™

Before connecting, operating or adjusting this product,
please read this instruction booklet carefully and completely.

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SOME DOS 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. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

<div align="center">**************</div>

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 inter-connections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before 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

<div align="center">**************</div>

DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.
DON'T allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.
DON'T place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
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 leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by 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 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.

ABOVE ALL

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

---NEVER guess or take chances with electrical equipment of any kind
---it is better to be safe than sorry!

<div align="center">************</div>

Table of Contents

About the symbols for instructions

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

🄽 Indicates special operating features of this unit.

🅃 Indicates tips and hints for making the task easier.

Playable Discs

DVD VIDEO	DVD video discs (8 cm / 12 cm disc)
DVD AUDIO	DVD audio discs (8 cm / 12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT disc DIGITAL AUDIO	Audio CD (8 cm / 12 cm disc)

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

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

N Notes on DVDs and Video CDs
Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added.
Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

Regional code of the DVD player and DVDs
This DVD player is designed and manufactured for playback of region "2" encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled "2" or "ALL". If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Disc-related terms
Title (DVD video discs only)
The main film content or accompanying feature content or additional feature content, or music album.
Each title is assigned a title reference number enabling you to locate it easily.

Group (DVD audio discs only)
The main audio content or accompanying feature content or additional feature content, or music album. Each group is assigned a group reference number enabling you to locate it easily.

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

Track (DVD audio discs,Video CD and audio CD only)
Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene
On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.
A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)
PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)
Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

Precautions

Handling the unit

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

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

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

Cleaning the unit

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

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

Notes on Discs

Handling discs

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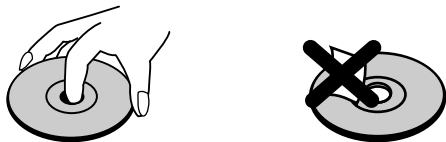
Storing discs

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

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.
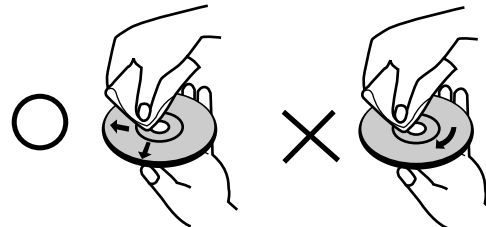
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols

About the ⊘ symbol display

" ⊘ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

About the disc symbols for instructions

A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

Symbol	Description
DVD-V	DVD Video discs
DVD-A	DVD Audio discs
VCD2.0	Video CDs with the PBC (playback control) function.
VCD1.1	Video CDs without the PBC (playback control) function.
CD	Audio CDs.
MP3	MP3 disc.
WMA	WMA disc.
JPEG	JPEG disc.

Front Panel and Display Window

Power indicator
Lights green when the
DVD player is turned on.

ON/STANDBY (| / ⏻)
Switches the player ON
and OFF.

TOP MENU
Displays the discs Title menu,
if available.

MENU
Accesses menu on a DVD disc.

RETURN
- Removes the setup menu.
- Displays the menu of a
video CD with PBC.

PLAY (▶)
Starts playback.

STOP (■)
Stops playback.

PAUSE (❚❚)
Pause playback temporarily/ press repeatedly
for frame-by-frame playback.

Forward SKIP (▶▶❚)
Go to NEXT chapter/track.
Press and hold for two seconds for
a fast forward search.

Reverse SKIP (❚◀◀)
Go to the beginning of the current
chapter/track or press twice in quick
successions to go to PREVIOUS
chapter/track. Press and hold for two
seconds for a fast reverse search.

Disc Tray
Insert a disc here.

OPEN/CLOSE (▲)
Opens or closes the disc tray.

▲/▼/◀/▶ (up/down/left/right)
Selects an item in the menu.

Remote Sensor
Point the DVD Player remote control here.

ENTER
Confirms menu selection.

Display window
Shows the current status
of the player.

▲▲ ANGLE active

DVD DVD video disc inserted
DVD A DVD audio disc inserted
CD Audio CD inserted
VCD Video CD inserted
MP3 MP3 or WMA disc
inserted

Indicates current player
function:
Playback, Pause, etc.

TITLE Indicates current title number

CHP/TRK Indicates current chapter or track number

Indicates total playing time/elapsed time

PROG. Programmed playback active

RANDOM RANDOM playback
active

Indicates repeat
mode

MP3 VCD   CD DVD A   TITLE   CHP/TRK   PROG.   RANDOM ALL A↻↻B

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Remote Control

SETUP
Accesses or removes setup menu.

OPEN/CLOSE
Opens and closes the disc tray.

0-9 number buttons
Selects numbered items in a menu.

FL DIM
Controls the Display Window's light.

TOP MENU •
Displays the discs Title menu, if available.

MENU •
Accesses menu on a DVD disc.

RETURN •
- Removes the setup menu.
- Displays the menu of a video CD with PBC.

ZOOM •
Enlarges video image.

PLAY (▶) •
Starts playback.

REV (Reverse) (◀◀) •
Search backward.

FWD (Forward) (▶▶) •
Search forward.

Reverse SLOW (◀I) •
Reverse slow playback.

Forward SLOW (I▶) •
Forward slow playback.

STOP (■) •
Stops playback.

Forward SKIP (▶▶I) •
Advances to next chapter or track.

Reverse SKIP (I◀◀) •
Returns to beginning of current chapter or track or press twice in quick successions to go to previous chapter or track.

ON/STANDBY
Switches DVD Player ON and OFF.

E.A.M.
Selects sound mode during disc playback.

PROGRAM
Enters to the program edit mode or exits from that.

CLEAR
Removes a track number on the program list or a mark on the MARKER SEARCH menu.

MARKER
Marks any point during playback.

DISPLAY
Accesses On-Screen display.

• ANGLE
Selects a DVD camera angle if available

• SUBTITLE
Selects a subtitle language.

• AUDIO
Selects an audio language (DVD) or an audio channel (CD).

• RANDOM
Plays tracks in random order.

• PAUSE/STEP (II/II▶)
Pauses playback temporarily/ press repeatedly for frame-by-frame playback.

• SEARCH
Displays MARKER SEARCH menu.

• A-B RPT
Repeat sequence.

• REPEAT
Repeat chapter, track, title, group, all.

• ENTER
Confirms menu selection.

• ▲/▼/◀/▶ (up/down/left/right)
Selects an item in the menu.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.
- **Distance:** About 23 ft (7 m) from the front of the remote sensor.
- **Angle:** About 30° in each direction of the front of the remote sensor.

Remote control battery installation
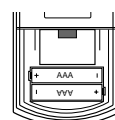
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly.

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

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Rear Panel

COAXIAL (Digital audio out jack)
Connect to digital (coaxial) audio equipment.

AUDIO OUT (Left/Right)
Connect to an amplifier, receiver,
or stereo system.

VIDEO OUT
Connect to a TV with video inputs.

VIDEO OUTPUT Switch
Select either SCART or COMPONENT/PROGRES-
SIVE SCAN, depending on how you connect DVD
Player to the TV.
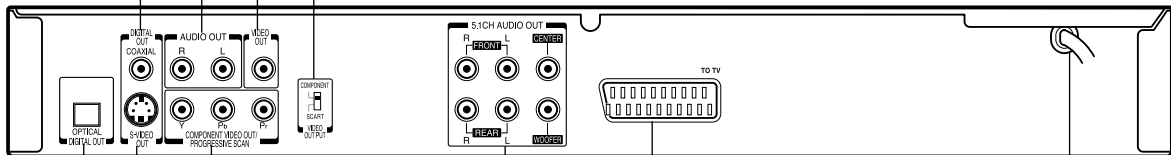
TO TV (SCART) Jack
Connect to a TV with SCART jack.

5.1 CHANNEL AUDIO OUT
Connect to a 5.1 channel receiver
– center speaker connection
– subwoofer connection
– front speakers connections
– rear (surround) speakers connections

COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr)
Connect to a TV with Y Pb Pr inputs.

S-VIDEO OUT
Connect to a TV with S-Video inputs.

AC Power Cord
Plug into the power source.

OPTICAL (Digital audio out jack)
Connect to digital (optical) audio equipment.

⚠

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

Connections

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use only one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect the player's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See "Connecting to Optional Equipment" on page 11.

⚠ Caution

– Make sure the DVD Player is connected directly to the TV. Tune the TV to the correct video input channel.
– Do not connect the DVD Player's AUDIO OUT jack to the phono in jack (record deck) of your audio system.
– Do not connect your DVD Player via your VCR. The DVD image could be distorted by the copy protection system.

Connecting to a TV

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

- When using the COMPONENT VIDEO OUT jacks, set the VIDEO OUTPUT switch to COMPONENT. When using the SCART jack, set the VIDEO OUTPUT switch to SCART.

Video connection (Good)

1 Connect the VIDEO OUT jack on the DVD Player to the video in jack on the TV using the video cable **(V)**.

2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV **(A)** using the audio cables.

S-Video connection (Better)

1 Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the S-Video cable **(S)**.

2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV **(A)** using the audio cables.

Component Video (ColorStream®) connection (Best)

1 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using the Y Pb Pr cable **(C)**.

2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV **(A)** using the audio cables.

SCART connection

Connect the TO TV scart jack on the DVD Player to the corresponding in jacks on the TV using the scart cable **(T)**.

Progressive Scan (ColorStream®Pro) connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Player's progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player.

1 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using the Y Pb Pr cable **(C)**.

2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV **(A)** using the audio cables.

Notes

– Set the Progressive to "On" on the setup menu for progressive signal, see page 14.
– Set the Progressive to "Off" by removing any disc from the unit and close the disc tray. See that "no disc" is displayed on the display window. Then press STOP and hold it for five seconds before releasing it.
– Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack) or S-VIDEO connection.

Rear of TV

Rear of DVD player
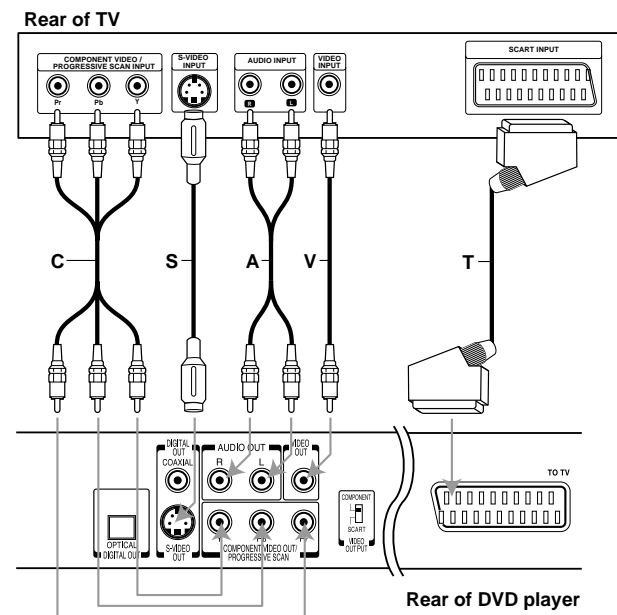
Note

If the TV has an S-video input, connect the DVD player with the S-video cable. When using an S-video cable, do not connect the yellow video cable.

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Connecting to Optional Equipment

Connecting to an amplifier equipped with two channel analog stereo or Dolby Pro Logic II/ Pro Logic

Connect the Left and Right AUDIO OUT jacks on the DVD Player to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the audio cables **(A)**.

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/ Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)

1 Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (OPTICAL **O** or COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (optical **O** or coaxial **X**) audio cable.

2 You will need to activate the player's digital output. (See "Digital Audio Output" on page 15).

𝒯 Digital Multi-channel sound
A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD Player (MPEG 2, Dolby Digital™ and DTS). Check the receiver manual and the logos on the front of the receiver.

⚠ Caution:
Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

Rear of DVD player
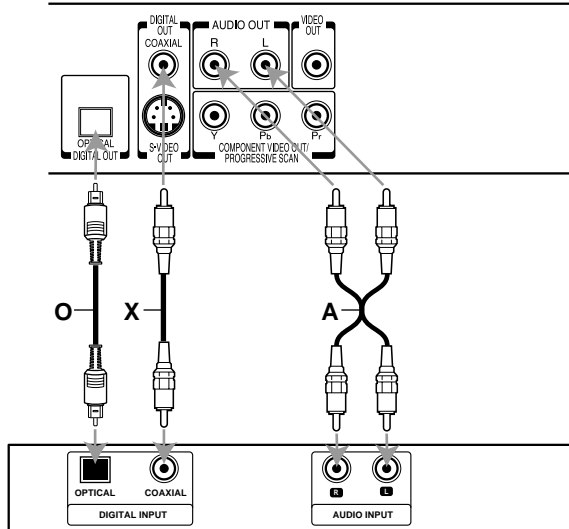
Amplifier (Receiver)

𝒩 Notes
– If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
– Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
– To see the audio format of the current DVD in the on-screen display, press AUDIO.
– Repeated pressing of the AUDIO button may allow you to select between various audio formats available on the disc.

𝒩 Note
This player does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this player to a DTS compatible receiver via one of this player's digital audio outputs. There will be no output at 6 channel connectors of this player when DTS is selected.

Analog connection to a multi-channel A/V receiver with 6 Channel connectors (Dolby Digital)

This DVD Player contains a multi-channel decoder. This enables playback of DVDs recorded in Multi-channel Surround without the need for an optional decoder.

1 Connect the CENTER and WOOFER jacks for the Center speaker and the Subwoofer **(C)** to the corresponding in jacks on your receiver.

2 Connect the Left and Right FRONT speaker jacks **(F)** to the corresponding in jacks on your receiver.

3 Connect the Left and Right REAR speaker jacks **(R)** to the corresponding in jacks on your receiver.

4 Make the appropriate Sound settings for Analog Output and Speaker Settings in the setup menu. See page 15.
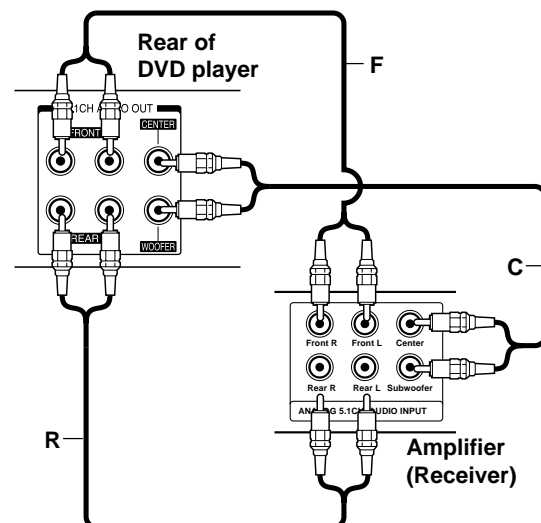
INTRODUCTION

General Explanation

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

On-Screen Display

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

On-screen display operation

1 **Press DISPLAY during playback.**

2 **Press ▲/▼ to select an item.**
The selected item will be highlighted.

3 **Press ◄/► to change the setting of an item.**
The number buttons can also be used for setting numbers (e.g., title number). For some functions, press ENTER to execute the setting.

Temporary Feedback Field Icons

Icon	Description
TITLE	Repeat Title
CHAPT	Repeat Chapter
GROUP	Repeat Group (DVD audio discs only)
TRACK	Repeat Track (non-PBC Video CDs and DVD audio discs only)
ALL	Repeat All Tracks (non-PBC Video CDs only)
A B	Repeat A-B
OFF	Repeat Off
▐▐■	Resume play from this point
⊘	Action prohibited or not available

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

DVD-V

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Title Number	⊤ 1 /3	**Shows the current title number and total number of titles, and** skips to the desired title number.	◄ / ►, or Numbers, ENTER
Chapter Number	Ⓒ 1 /12	**Shows the current chapter number and total number of chapters, and** skips to the desired chapter number.	◄ / ►, or Numbers, ENTER
Time search	🕐 0:20:09	**Shows the elapsed playing time, and** searches the point by the elapsed time directly.	Numbers, ENTER
Audio language and Digital Audio Output mode	1 ENG ◯)) ▯▯D 5.1 CH	**Shows the current audio soundtrack language, encoding method, and channel number, and** changes the setting.	◄ / ►, or AUDIO
Subtitle language	⨀ OFF	**Shows the current subtitles language, and** changes the setting.	◄ / ►, or SUBTITLE
Angle	🎥 1 /1	**Shows the current angle number and total number of angles, and** changes the angle number.	◄ / ►, or ANGLE
Sound	◁ NORM.	**Shows the current sound mode, and** changes the setting.	◄ / ►, or E.A.M.

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On-Screen Display (Continued)

DVD-A

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Group Number	2 /6	**Shows the current group number and total number of groups, and** skips to the desired group number.	◀ / ▶, or Numbers, ENTER
Track Number	1 /12	**Shows the current track number and total number of tracks, and** skips to the desired track number.	◀ / ▶, or Numbers, ENTER
Time search	0:10:15	**Shows the elapsed playing time.(Display only)**	–
DVD Audio Output mode	1 PPCM 5 CH	**Shows the current encoding method, and channel number, and** changes the setting.	◀ / ▶, or AUDIO
Subtitle language	OFF	**Shows the current subtitles language, and** changes the setting.	◀ / ▶, or SUBTITLE
Page (or Angle)	1 /12 or 1 /1	**Shows the current page (or angle) number and total number of pages (or angle), and** changes the page (or angle) number.	◀ / ▶, or ANGLE

VCD2.0 VCD1.1

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Track Number	1 /4	**Shows the current track number, total number of tracks and PBC On mode, and** skip to the desired track number.	◀ / ▶, or Numbers, ENTER
Time	0:20:09	**Shows the elapsed playing time (Display only)**	–
Audio Channel	STER.	**Shows the audio channel, and** changes the audio channel.	◀ / ▶, or AUDIO
Sound	NORM.	**Shows the current sound mode, and** changes the setting.	◀ / ▶, or E.A.M.

Initial Settings

You can set your own Personal Preferences on the player.

Initial Settings General Operation

1 Press SETUP.
The setup menu appears.

```
        Disc Audio          ✓Original
 (ABC)  Disc Subtitle        English
        Disc Menu            French
                             German
   🔒   Rating               Spanish
        Area Code            Italian
        TV Aspect            Chinese
   📺   Menu Language         Polish
        Progressive Scan     Hungarian
  (((•  Digital Audio Output  Other ————
        5.1 Speaker Setup
        Others
```

2 Press ▲/▼ to select the desired item.
The screen will show the current setting for the selected item, as well as alternate setting(s).

3 While the desired item is selected, press ►, then ▲/▼ to select the desired setting.

4 Press ENTER to confirm your selection.
Some items require additional steps.

5 Press SETUP, RETURN, or PLAY to exit the setup menu.

Language

Disc Language DVD-V DVD-A

Select a language for the disc's Menu, Audio, and Subtitle.
Original : The original language set for the disc is selected.
Other : To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 29. If you enter the wrong language code, press CLEAR.

```
        Disc Audio          ✓Original
 (ABC)  Disc Subtitle        English
        Disc Menu            French
   🔒   Rating               German
        Area Code            Spanish
        TV Aspect            Italian
   📺   Menu Language         Chinese
        Progressive Scan     Polish
  (((•  Digital Audio Output  Hungarian
        5.1 Speaker Setup     Other ————
        Others
```

Menu Language

Select a language for the setup menu. This is the menu you see when you press SETUP.

```
        Disc Audio          ✓English
 (ABC)  Disc Subtitle        Spanish
        Disc Menu            French
   🔒   Rating               German
        Area Code            Italian
        TV Aspect            Portuguese
   📺   Menu Language
        Progr...ive Sc..
```
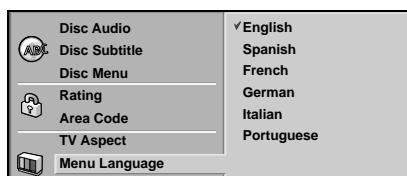
Picture

TV Aspect DVD-V DVD-A

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
4:3 Panscan: Select when a conventional TV set is connected. The video material formatted in the Pan & Scan style is played back in that style (Both sides of the picture are cut off).
16:9 Wide: Select when a 16:9 wide TV is connected.

```
        Disc Audio           4:3  Letterbox
 (ABC)  Disc Subtitle        4:3  Panscan
        Disc Menu           ✓16:9 Wide
   🔒   Rating
        Area Code
        TV Aspect
   📺   Menu Language
        Progressive Scan
  (((•  Digital Audio Output
        5.1 Speaker Setup
        Others
```
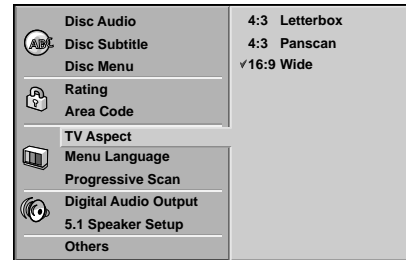
Progressive Scan DVD-V DVD-A

Progressive Scan Video provides the highest quality pictures with less flickering.
If you are using the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks, but are connecting the DVD Player to a standard (analog) television, set Progressive Scan to Off.
If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On.

```
        Disc Audio          ✓Off
 (ABC)  Disc Subtitle        On
        Disc Menu
   🔒   Rating
        Area Code
        TV Aspect
   📺   Menu Language
        Progressive Scan
  (((•  Digital Audio Output
        5.1 Speaker Setup
        Others
```
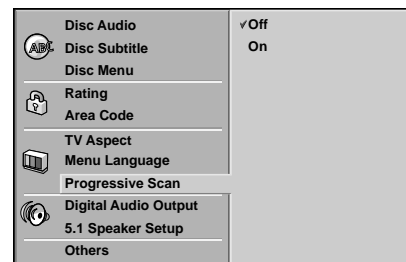
📝 Note
Progressive Scan will not be displayed in the setup menu when the rear switch is set at SCART position.

⚠ Caution
Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit.
1) Remove any disc from the unit and close the disc tray. See that "no disc" is displayed on the display window.
2) Press STOP and hold it for five seconds before releasing it. The video output will be restored to the standard setting and a picture will once again be visible on a conventional analog TV or monitor.

Sound

Digital Audio Output

Each DVD disc has a variety of audio output options. Set the player's Digital Audio Output according to the type of audio system you use.

DOLBY DIGITAL/PCM: Select "DOLBY DIGITAL/PCM" if you connected the DVD Player's DIGITAL OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

Stream/PCM: Select "Stream/PCM" if you connected the DVD Player's DIGITAL OUT jack to an amplifier or other equipment with a DTS decoder, Dolby Digital decoder or MPEG decoder.
If you like to have DTS sounds from the digital output jack, you have to select "Stream/PCM".

PCM: Select when connected to a 2-channel digital stereo amplifier. The DVD player outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital, MPEG1, or MPEG2 recording system.

Disc Audio	DOLBY DIGITAL /PCM
Disc Subtitle	✓ Stream/PCM
Disc Menu	PCM
Rating	
Area Code	
TV Aspect	Sample Freq.
Menu Language	✓ 48 KHz
Progressive Scan	96KHz
Digital Audio Output	
5.1 Speaker Setup	
Others	
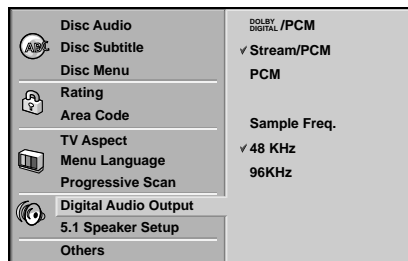
Sample Frequency

To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated as above.

(1) If your receiver or amplifier is NOT capable of handling 96KHz signals, loud buzzing sounds might be heard. In this case, select 48 KHz.
When this choice is made, this unit will automatically convert any 96KHz signals to 48KHz so your system can decode them.

(2) If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, this unit will pass each type of signal through without any further processing.

5.1 Speaker settings DVD-V DVD-A

Select speaker settings, including volume balance and delay time, or test the speaker settings.
Speaker settings are only active on the Analog Multi-Channel Output. (See "Speaker Settings", page 27.)

Disc Audio	
Disc Subtitle	R ... R
Disc Menu	
Rating	Front L
Country Code	Volume 0 dB
TV Aspect	Size Large
Menu Language	Distance 1 ft
Progressive Scan	Test
Digital Audio Output	Return
5.1 Speaker Setup	
Others	

PREPARATION

1-15
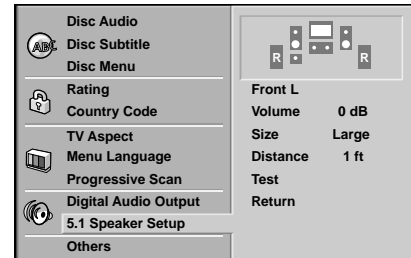
Before Operation (Continued)

Others

The DRC, Vocal, PBC, Auto Play, B.L.E., Pluge and DNR settings can be changed.

● Press ▲/▼ to select the desired item and press ENTER. The setting of the selected item is changed between On and Off.

Disc Audio		DRC	On
Disc Subtitle		Vocal	On
Disc Menu		PBC	On
Rating		Auto Play	Off
Area Code		B.L.E.	Off
TV Aspect		Pluge	Off
Menu Language		DNR	Off
Progressive Scan			
Digital Audio Output			
5.1 Speaker Setup			
Others			

Dynamic Range Control (DRC) `DVD-V`

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

Vocal `DVD-V`

Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.

PBC `VCD2.0` `VCD1.1`

Set Playback Control (PBC) to On or Off.
On: Video CDs with PBC are played according to the PBC.
Off: Video CDs with PBC are played the same way as Audio CDs.

Auto Play `DVD-V`

You can set up the DVD Player so a DVD disc automat-ically starts playing whenever the DVD is inserted.
If Auto Play mode is set to On, this DVD player will search a title where playback time is longest and then play back the title automatically.
On: Auto Play function is activated.
Off: Auto Play function is not activated.

𝒩 Note

The Auto Play function may not work for some DVDs.

B.L.E. (Black Level Expansion) `DVD-V` `VCD2.0` `VCD1.1`

To select the black level of playback pictures. Set your preference and monitor's ability.
On: Expanded grey scale. (0 IRE cut off)
Off: Standard grey scale. (7.5 IRE cut off)

Pluge (Blacker than Black) `DVD-V`

For proper adjustment of your television brightness settings utilizing a commercially available test disc.
On: Select when you adjust the level of your TV using a commercially available test disc that contains pluge signals.
Off: For normal use.

DNR (Digital Noise Reduction)

`DVD-V` `VCD2.0` `VCD1.1`

You can reduce ambient noise in the picture.
DNR1: Normal level
DNR2: Expanded level.
Off: Off.

𝒩 Notes

– Actual picture enhancement may vary depending on the quality of the disc.
– While the DNR2 (expanded level) can provide additional improvement in the reduction of noise in the video signal, it may produce undesirable picture artifacts on some discs. Should this occur, select a more appropriate DNR level (nor-mal or off).
– Depending on the disc, some picture detail may be lost by the picture enhancement.
– A DVD audio disc with Dolby Digital or DTS soundtrack may be played, some DVD audio discs include moving pictures which may be modified by the above processes.

1-16

Parental Control

Rating DVD-V

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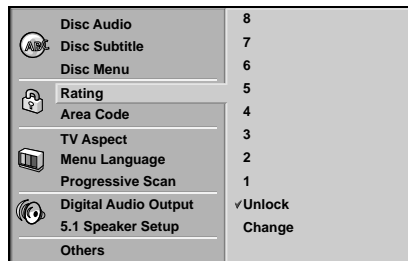
1 **Select "Rating" on the Setup menu using the ▲/▼ buttons.**

2 **While "Rating" is selected, press ►.**

3 **When you have not entered a password yet.**
Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press ENTER. Enter the 4-digit password again and press ENTER to verify.
When you have already entered a password;
Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press ENTER.

If you make a mistake before pressing ENTER, press CLEAR and enter 4-digit security password again.

4 **Select a rating from 1 to 8 using the ▲/▼ buttons.**
Level 1: DVD software for adults cannot be played back.
Level 8: All DVD software can be played back.
Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.
Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

5 **Press ENTER to confirm your rating selection, then press SETUP to exit the menu.**

Area Code DVD-V

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Area Code List", page 30.).
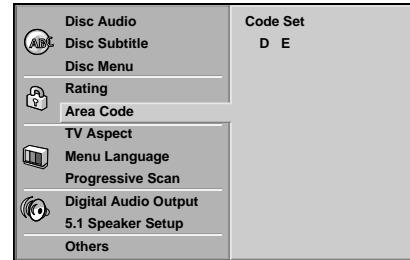
1 **Select Area Code using the ▲/▼ buttons on the setup menu.**

2 **While Area Code is selected, press ►.**

3 **Follow step 3 of "Rating" on left.**

4 **Select the first character using the ▲/▼ buttons.**

5 **Shift the cursor using ► button and select the second character using ▲/▼ buttons.**

6 **Press ENTER to confirm your area code selection, then press SETUP to exit the menu.**

𝑵 Note

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

Changing the 4-digit code

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

If you forget your 4-digit code

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

1 Press SETUP to display the setup menu.
2 Use the Number buttons to enter the 6-digit number "210499".
The 4-digit password is cleared. "P CLr" appears on the display for a moment.
3 Enter a new code as shown above to the left (Rating).

Playing a DVD and Video CD

⟙ Playback Setup `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

● Turn on the TV and select the video input source con-nected to the DVD player.
● Audio system: Turn on the audio system and select the input source connected to the DVD player.

1 Press OPEN/CLOSE to open the disc tray.

2 Load your chosen disc in the tray, with the playback side down.

3 Press OPEN/CLOSE to close the tray.
READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY.
In some cases, the disc menu might appear instead.

⟙ If a menu screen is displayed
The menu screen may be displayed first after loading a DVD or Video CD which offer a menu.

`DVD-V`

Use the ▲/▼/◀/▶ buttons to select the title/chapter you want to view, then press ENTER to start playback.
Press TOP MENU or MENU to return to the menu screen.

`DVD-A`

Use the ▲/▼/◀/▶ buttons to select an option you want, then press ENTER to view the option.

`VCD2.0`

● Use the number buttons to select the track you want to view.
Press RETURN to return to the menu screen.
● Menu setting and the exact operating procedures for using the menu may differ depending on the disc.
Follow the instructions on each menu screen.
You also may set PBC to Off under setup. See page 16.

𝒩 Notes
– If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Parental Control", on page 17).
– DVDs may have a region code.
Your player will not play discs that have a region code different from your player. The region code for this player is 2 (two).

General Features

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

Moving to another TITLE/GROUP

`DVD-V` `DVD-A`   ⟙ 1 /3   ▭ 2 /6

When a disc has more than one title/group, you can move to another title/group as follows:
● Press DISPLAY, then press the appropriate num-bered button (0-9) to select a title/group number.

Moving to another CHAPTER/TRACK

`DVD-V` `DVD-A` `VCD1.1` `VCD2.0`

ⓒ 1 /12   ⟙ 1 /12   ◫ 1 /12

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:
● Press SKIP ▶▶⎮ or ⎮◀◀ briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
● Press SKIP ⎮◀◀ twice in quick successions to step back to the previous chapter/track.
● To go directly to any chapter/track during DVD play-back, press DISPLAY. Then, press ▲/▼ to select the chapter/track icon. Then, enter the chapter/track number using the numbered buttons (0-9).

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

Search `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

1 Press REV ◀◀ or FWD ▶▶ during playback.
The player will now go into SEARCH mode.
2 Press REV ◀◀ or FWD ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X16, ◀◀X100 (backward) or ▶▶X2, ▶▶X4, ▶▶X16, ▶▶X100 (forward).
With a Video CD, the Search speed changes: ◀◀X2, ◀◀X4, ◀◀X8, (backward) or ▶▶X2, ▶▶X4, ▶▶X8, (forward).
3 To exit SEARCH mode, press PLAY.

𝒩 Note
When using a DVD audio disc that includes pictures, this operation may be permitted in some picture segments.

Pause `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

1 Press PAUSE/STEP during playback.
2 To return to playback, press PLAY.

OPERATION

General Features (continued)

Still Picture and Frame-by-Frame playback

`DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

1 Press PAUSE/STEP during playback.
The player will now go into PAUSE mode.

2 You can advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly on the remote control.

𝒩 Note

When using a DVD audio disc that includes pictures, this operation may be permitted in some picture segments.

Slow Motion `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

1 Press SLOW ◀❙ or ❙▶ during playback.
The player will enter SLOW mode.

2 Use the SLOW ◀❙ or ❙▶ to select the required speed:
◀❙ 1/16, ◀❙ 1/8, ◀❙ 1/4 or ◀❙ 1/2 (backward), or
❙▶ 1/16, ❙▶ 1/8, ❙▶ 1/4 or ❙▶ 1/2 (forward).

3 To exit slow motion mode, press PLAY.

𝒩 Notes

- Slow motion playback in reverse is not applicable for Video CD.
- When using a DVD audio disc that includes pictures, this operation may be permitted in some picture segments.

Random `Karaoke DVD` `VCD2.0` `VCD1.1`

1 Press RANDOM during playback or in stop mode.
The unit automatically begins Random Playback and "RANDOM" appears on the display window.

2 To return to normal playback, press RANDOM until "RANDOM" disappears on the display window.

𝒯 Tip

By pressing SKIP ▶▶❙ during Random playback, the unit selects another title (track) and resumes Random playback.

𝒩 Notes

- This function only works with DVD Karaoke discs and video CD without PBC.
- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Random function. See page 16.

Repeat A-B `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

🔁 A *   🔁 A B   🔁 OFF

To repeat a sequence in a title or group:

1 Press A-B RPT at your desired starting point.
" A * " appears briefly on the TV screen.

2 Press A-B RPT again at your desired end point.
"A B" appears briefly on the TV screen, and the repeat sequence begins ("A⟲⟳B" appears on the display window).

3 To cancel the sequence, press A-B RPT.

Repeat `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

🔁 CHAPT   🔁 TITLE   🔁 GROUP   🔁 TRACK   🔁 ALL   🔁 OFF

DVD Video Discs - Repeat Chapter/Title/Off

1 To repeat the currently playing chapter, press REPEAT.
The Repeat Chapter icon appears on the TV screen.

2 To repeat the title currently playing, press REPEAT a second time.
The Repeat Title icon appears on the TV screen.

3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

DVD Audio Discs - Repeat Track/Group/Off

1 To repeat the currently playing track, press REPEAT.
The Repeat Track icon appears on the TV screen.

2 To repeat the group currently playing, press REPEAT a second time.
The Repeat Group icon appears on the TV screen.

3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

Video CDs - Repeat Track/All/Off

1 To repeat the track currently playing, press REPEAT.
The Repeat Track icon appears on the TV screen.

2 To repeat the disc currently playing, press REPEAT a second time.
The Repeat All icon appears on the TV screen.

3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

𝒩 Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 16.

Time Search `DVD-V`   🕐 0:20:09   🕐 -:--:--

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

1 Press DISPLAY during playback. The on-screen display appears on the screen.
The Time Search box shows the elapsed playing time of the current disc.

2 Within 10 seconds, press ▲/▼ to select the Time Search icon in the on-screen display.
The "-:--:--" appears in the Time Search box.

3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.

4 Within 10 seconds, press ENTER to confirm the start time.
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

1-19

General Features (continued)

Selecting the sound enhancement

`DVD-V` `VCD2.0` `VCD1.1` 🔊 NORM. 🔊 3D SUR 🔊 DIALOGUE

Press E.A.M. to select the sound enhancement during playback.

NORM. : Normal sound

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

DIALOGUE: Enhances critical center channel information to make dialogue more intelligible (only when playing a DVD video disc recorded on the Dolby Digital recording system).
   • To use this enhancement on audio output from the DIGITAL AUDIO OUT jack, be sure to set "Digital Audio Output" to "PCM". See page 15.

Zoom `DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

1 Press ZOOM during playback or still playback to activate the Zoom function.
   If you press ZOOM repeatedly, the magnification level increases up to six steps.

2 Use the ▲/▼/◄/► buttons to move through the zoomed picture.

3 Press CLEAR to resume normal playback or return to the paused image.

📝 Note
The zoom function may not work for some DVD-V and DVD-A.

Marker Search `DVD-V` `VCD2.0` `VCD1.1`

🔖 1/9   🔖 MARKER SEARCH ◄– – – – – – – –►

You can start playback from a memorized point. Up to nine points can be memorized.
To enter a mark, follow these steps.

1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.
   The Marker icon will appear on the TV screen briefly.

2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene

1 During disc playback, press SEARCH.
   The MARKER SEARCH menu will appear on the screen.

2 Within 10 seconds, press ◄/► to select a Marker number that you want to recall.

3 Press ENTER.
   Playback will start from the Marked scene.

4 To remove the MARKER SEARCH menu, press SEARCH.

To clear a Marked Scene

1 During disc playback, press SEARCH.
   The MARKER SEARCH menu will appear on the screen.

2 Press ◄/► to select the Marker number that you want to erase.

3 Press CLEAR.
   The Marker number will be erased from the list.

4 Repeat steps 2 and 3 to erase additional Marker numbers.

5 To remove the MARKER SEARCH menu, press SEARCH.

Special DVD Features `DVD-V` `DVD-A`

Checking the contents of DVD Video discs: Menus

DVDs may offer menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate number button to select an option. Or, use the ▲/▼/◄/► buttons to highlight your selection, then press ENTER.

Title Menu `DVD-V` `DVD-A`

1 Press TOP MENU.
   If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.

2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.

3 To remove the title menu, press TOP MENU again.

Disc Menu `DVD-V` `DVD-A`

1 Press MENU.
   The disc menu is displayed.

2 To remove the disc menu, press MENU again.

Camera Angle `DVD-V` `DVD-A` 📹 1/1

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.
● Press ANGLE repeatedly during playback to select a desired angle.
   The number of the current angle appears on the display.

Changing the Audio Language

`DVD-V` `DVD-A` 🔊 1 ENG DD 5.1 CH   🔊 1 PPCM 5.1 CH

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

Changing the Audio Channel
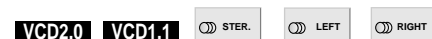
`VCD2.0` `VCD1.1` 🔊 STER. 🔊 LEFT 🔊 RIGHT

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

Subtitles `DVD-V` `DVD-A` 💬 1 ENG

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

📝 Note
If ⃠ appears, the feature is not available on the disc.

1-20

Operation with DVD and Video CD

DVD Audio Discs `DVD-A`

DVD Audio is a new disc format building on the success of DVD to provide high quality, uncompressed, multi-channel audio for a new experience in audio quality. A DVD Audio disc can be identified by the DVD audio logo on the disc jacket or on the disc itself.

DVD Audio can provide higher quality stereo than Audio CDs with a sampling rate of up to 192kHz (compared to 44.1kHz for CDs). DVD Audio digital sound can be delivered with up to 24 bits of data (compared to 16 bits for a standard CD).

A typical DVD Audio disc contains up to seven times the data capacity of a CD. This additional space is used for music, either Advanced Resolution multi-channel sound quality that is closer to the artist's master recording or for longer recordings. Many DVD Audio discs contain on-screen text, such as artist biographies, playlists, or lyrics. Some DVD Audio discs contain photo galleries or video clips.

Note
To enjoy maximum sound quality and surround effect of DVD Audio, you must use 5.1 channel analog audio output (5.1CH AUDIO OUT jacks on the DVD Player). If you use the DIGITAL OUT (OPTICAL or COAXIAL) for your audio connection, the sound will only be similar to CD-quality sound even though you're playing a DVD Audio disc and might not have surround effect.

Moving to another GROUP `DVD-A` `2/6`

Some DVD Audio discs divide content into different groups. Your player enables you to quickly access different groups during playback via the on-screen display.
1 Press DISPLAY during playback or in stop mode.
2 Press ▲/▼ to select Group icon.
3 Press ◄/► or the numbered buttons (0-9) to select a group number.

Note
Sometimes the author of the disc creates hidden content that can only be accessed by entering a password. If the lock icon appears on the TV screen, enter the password (sometimes you'll find it on the disc's jacket cover or on a web site). This password control isn't dictated by your DVD Player — it is a function of the disc. Since the authoring of DVD Audio Discs varies, some of the on-screen display choices might not be available for the disc you're playing.

Viewing another PAGE `DVD-A` `1/12`

Since DVD Audio discs can hold a lot of content, there are various ways to see what's available on the disc.
1 Press DISPLAY during playback.
2 Press ▲/▼ to select Page icon.
3 Press ◄/► to select a page number.
What appears on the screen will vary from disc to disc because the information available depends upon the way the disc was created.

Note
Since the authoring of DVD Audio Discs varies, some of the on-screen display choices might not be available for the disc you're playing.

OPERATION

Operation with Audio CD and MP3/WMA Disc

Playing an Audio CD and MP3/WMA Disc

CD　**MP3**　**WMA**

The DVD Player can play MP3/WMA formatted record-ings on CD-ROM, CD-R or CD-RW discs.
Before playing MP3/WMA recordings, read the notes on MP3/WMA Recordings on right.

1 **Insert a disc and close the tray.**
Audio CD; Audio CD menu appears on the TV screen go to step 4.
MP3/WMA disc; The MP3/WMA-JPEG choice menu appears on the TV screen. Go to step 2

> ♪ MP3|WMA
> 🖼 JPEG

2 **Press ▲/▼ to select the MP3/WMA then press ENTER.**
The MP3/WMA menu appears on the TV screen.
Press RETURN to move to the MP3/WMA-JPEG choice menu.

MP3|WMA	Program
📁..	
TRACK 1.mp3	
TRACK 2.mp3	
TRACK 3.mp3	
TRACK 4.mp3	
TRACK 5.mp3	
TRACK 6.mp3	
TRACK 7.mp3	
TRACK 8.mp3	Clear All
■　00:00　🎚 1　🔁 OFF	
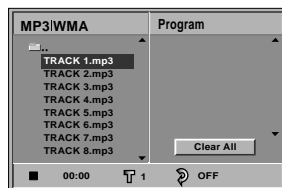
3 **Press ▲/▼ to select a folder, and ENTER.**
A list of files in the folder appears.

4 **Press ▲/▼ to select a track then press PLAY or ENTER.**
Playback starts.
During playback, the current track's elapsed playing time will appear on the display window and menu.
Playback will stop at the end of the disc.
Press TOP MENU to move to the next page.
Press MENU to move to the previous page.

CD	Program
TRACK01	
TRACK02	
TRACK03	
TRACK04	
TRACK05	
TRACK06	
TRACK07	
TRACK08	Clear All
■　0: 56: 18　STER.　🔊 NORM.	

MP3|WMA	Program
📁..	
TRACK 1.mp3	
TRACK 2.mp3	
TRACK 3.mp3	
TRACK 4.mp3	
TRACK 5.mp3	
TRACK 6.mp3	
TRACK 7.mp3	
TRACK 8.mp3	Clear All
■　00:00　🎚 1　🔁 OFF	
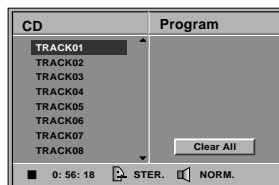
　　　Audio CD menu　　　　**MP3/WMA menu**
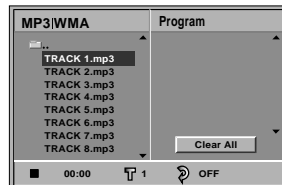
𝒯 Tips
If you are in a file list and want to return to the Folder list, use the ▲/▼ to highlight 📁.. and press ENTER to return to the previous menu screen.

5 **To stop playback at any other time, press STOP.**

Notes on MP3/WMA Recordings

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

About WMA(Window Media Audio)
- An WMA file is a Microsoft audio compression technology.
- WMA(Windows Media Audio) offers double the audio compression of the MP3 format.

MP3/WMA Disc compatibility with this player is limited as follows:
1. Sampling Frequency / only at 44.1kHz (MP3), 22.05 - 44.1kHz (WMA)
2. Bit rate / within 32 - 320kbps (MP3), 32 - 128kbps (WMA)
3. CD-R physical format should be "ISO 9660"
4. If you record MP3/WMA files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3/WMA files. We recommend that you use "Easy CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3/WMA files in the first track. If there is no MP3/WMA file in the 1st track, it cannot playback MP3/WMA files. If you wish to playback MP3/WMA files, format all the data in the disc or use a new one.
6. File names should be named using 8 letters or less and must incorporate ".mp3" or ".wma" extension e.g. "********.MP3" or "********.WMA".
7. Do not use special letters such as "/ : * ? " < > " etc.
8. Total number of files on the disc should be less than 650.

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

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

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> Designed for
> **Windows
> Media**™

Operation with Audio CD and MP3/WMA Disc (Continued)

Pause `CD` `MP3` `WMA`

1 Press PAUSE/STEP during playback.

2 To return to playback, press PLAY or press PAUSE/STEP again.

Moving to another Track `CD` `MP3` `WMA`

● Press SKIP ▶▶┃ or ┃◀◀ briefly during playback to go to the next track or to return to the beginning of the current track.

● Press SKIP ┃◀◀ twice in quick successions to step back to the previous track.

● In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

Repeat Track/All/Off `CD` `MP3` `WMA`

1 To repeat the track currently playing, press REPEAT.
The Repeat icon and "TRACK" appears on the menu screen.

2 To repeat all tracks on a disc, press REPEAT a second time.
The Repeat icon and "ALL" appears on the menu screen.

3 To cancel Repeat mode, press REPEAT a third time.
The Repeat icon and "OFF" appears on the menu screen.

Search `CD` `MP3` `WMA`

1 Press REV ◀◀ or FWD ▶▶ during playback.
The player will now go into SEARCH mode.

2 Press REV ◀◀ or FWD ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
Search speed and direction are indicated on the menu screen.

3 To exit SEARCH mode, press PLAY.

Random `CD` `MP3` `WMA`

1 Press RANDOM during playback or when playback is stopped.
The unit automatically begins Random Playback and RANDOM or "RAND." appears on the display window and menu screen.

2 To return to normal playback, press RANDOM repeatedly until RANDOM or "RAND." disappears on the display window and menu screen.

Repeat A-B `CD`

To repeat a sequence.

1 During disc playback, press A-B RPT at your desired starting point.
The Repeat icon and "A * " appears on the menu screen.

2 Press A-B RPT again at your desired end point.
The Repeat icon and "A B" appears on the menu screen, and the sequence begins to play repeatedly.

3 To exit the sequence and return to normal play, press A-B RPT again.
The Repeat icon and "OFF" appears on the menu screen.

Selecting the sound enhancement `CD`

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

1 Press E.A.M. to select "3D SUR" during playback.

2 To turn off the 3D Surround effect, press E.A.M. again to select "NORM.".

Changing the Audio Channel `CD`

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

Viewing a JPEG disc `JPEG`

This DVD Player can play discs with JPEG files. Before playing JPEG recordings, read the notes on JPEG Recordings on right.

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

    🎵 **MP3IWMA**

    ⛶ **JPEG**

N Note
No MP3/WMA-JPEG choice menu willl be displayed for Kodak PICTURE CD. The JPEG menu will appear on the TV screen.

JPEG 📁	
📁 **Folder1**	
📁 Folder2	
📁 Folder3	
📁 Folder4	
📁 Folder5	
📁 Folder6	
📁 Folder7	
📁 Folder8	
	Slide Speed Off

2 Press ▲/▼ to select the JPEG then press ENTER.
The JPEG menu appears on the TV screen.

3 Press ▲/▼ to select a folder, and ENTER.
A list of files in the folder appears.
Press RETURN to move to the MP3/WMA-JPEG choice menu.

T Tip
If you are in a file list and want to return to the Folder list, use the ▲/▼ buttons on the remote to highlight " 📁·· " and press ENTER to return to the previous menu screen.

4 If you want to view a particular file, press ▲/▼ to highlight a file and press ENTER or PLAY.
Viewing the file proceeding starts.
During viewing a file, press RETURN to move to the previous menu (JPEG menu).
Press TOP MENU to move to the next page.
Press MENU to move to the previous page.

JPEG 📁Folder1	
📁..	
Picture1.jpg	
Picture2.jpg	
Picture3.jpg	
Picture4.jpg	
Picture5.jpg	
Picture6.jpg	
Picture7.jpg	
5/32 1024X768 Slide Speed Off	5/32 1024X768 Picture5.jpg
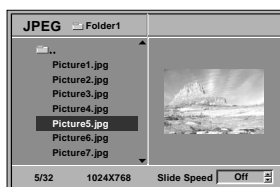
T Tip
There are three viewing Slide Speed options: Fast, Normal, Slow, and Off. Press ◄/► to highlight the Slide Speed then press ▲/▼ to select the option you want to use, and press ENTER.

5 To stop viewing at any other time, press STOP.
The JPEG menu appears.

Moving to another File
Press SKIP ◄◄ or ►►I once during viewing a picture to advance to the next file or to the previous file.

Still Picture
1 Press PAUSE/STEP during slide show.
The player will now go into PAUSE mode.
2 To return to the slide show, press PLAY or press PAUSE/STEP again.

To flip the picture
Press ▲/▼ during showing a picture to flip the picture horizontally or a vertically.

To rotate picture
Press ◄/► during showing a picture to rotate the picture clockwise or counter clockwise.

Notes on JPEG Recordings

● Depending upon the size and number of the JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files are too big — reduce the resolution of the JPEG files to less than 2 mega pixels and burn another disc.

● Total number of files and folders on the disc should be less than 650.

● Some disc may be incompatible due to different recording format or condition of disc.

● When you are using software such as "Easy CD Creator" to burn the jpeg files into the CD-R, ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.

● If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" files.

● File names without ".jpg" extension will not be able to be read by this DVD player. Even though the files are shown as JPEG image files in windows explorer.

Programmed Playback with Audio CD and MP3/WMA Disc

The Program function enables you to store your favorite tracks from any disc in the player memory.

Program can contain 30 tracks.

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

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

𝒩 Note

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

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

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

CD	Program Ⓔ
TRACK 1	TRACK 12
TRACK 2	TRACK 8
TRACK 3	TRACK 10
TRACK 4	TRACK 3
TRACK 5	
TRACK 6	
TRACK 7	
TRACK 8	Clear All
■ 0: 56: 18 STER. NORM.	

Audio CD menu

MP3|WMA	Program Ⓔ
..	TRACK 8.mp3
TRACK 1.mp3	TRACK 2.mp3
TRACK 2.mp3	TRACK 4.mp3
TRACK 3.mp3	TRACK 3.mp3
TRACK 4.mp3	
TRACK 5.mp3	
TRACK 6.mp3	
TRACK 7.mp3	
TRACK 8.mp3	Clear All
■ 00:00 3 OFF	

MP3/WMA menu

4 **Press ▶.**

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

5 **Press ▲/▼ to select the track you want to start playing.**

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

6 **Press PLAY to start.**

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

7 **To resume normal playback from programmed playback, press PROGRAM. Select a track of CD (or MP3/WMA) list and then press ENTER.**

"PROG." indicator disappears from the menu screen and display window.

Programmed Playback with Video CD

𝒩 Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 16.

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

2 **Press PROGRAM while playback is stopped.**

The VCD Program menu will appear.
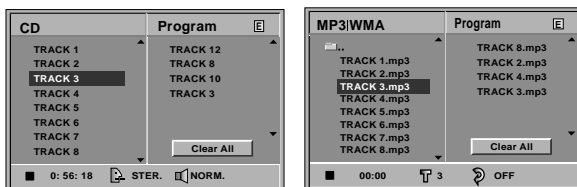
VCD	Program Ⓔ
TRACK 1	
TRACK 2	
TRACK 3	
TRACK 4	
TRACK 5	
TRACK 6	
TRACK 7	
TRACK 8	Clear All
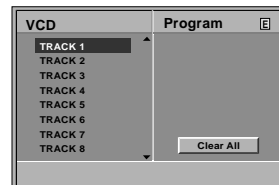
𝒩 Note

Press RETURN or PROGRAM to exit the Program menu.

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

4 **To resume normal playback from programmed playback, press PROGRAM.**

"PROG." indicator disappears in the display window.

Repeat Programmed Tracks

● To repeat the track currently playing, press REPEAT.
The Repeat icon and "TRACK" appears on the menu screen.
● To repeat all tracks on the program list, press REPEAT a second time.
The Repeat icon and "ALL" appears on the menu screen.
● To cancel Repeat mode, press REPEAT a third time.
The Repeat icon and "OFF" appears on the menu screen.

Erasing a Track from Program List

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

The Ⓔ mark will appear.
2 Press ▶ to move to the Program list.
3 Use ▲/▼ to select the track that you wish to erase from the Program list.
4 Press CLEAR.
The track will be erased from the Program list.

Erasing the Complete Program List

1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
2 Use ▲/▼ to select "Clear All", then press ENTER.
The complete Program for the disc will be erased.
The programs are also cleared when the disc is removed.

OPERATION

Additional Information

Screen Saver

The screen saver picture appears when you leave the DVD Player in stop mode for about five minutes.
After the Screen Saver has been engaged for about five minutes, the DVD Player will automatically turn itself off.

Dimmer Function

You can adjust the Display Window's brightness in 3 steps. Each press of the FL DIM button changes the Display Window's brightness in the following order:

Normal → Dim → Display Off

System Select

You must select the appropriate system mode for your TV system. If NO DISC appears in the display window, press and hold PAUSE on the front panel for more than 5 seconds to be able to select a system (PAL, NTSC, or AUTO).

• When the selected system does not coincide with the system of your TV, normal color picture may not be displayed.

AUTO: Select when DVD player is connected with Multi system TV.

NTSC: Select when DVD player is connected with NTSC-TV.

PAL: Select when DVD player is connected with PAL-TV.

Video Mode Setting

`DVD-V` `DVD-A` `VCD2.0` `VCD1.1`

● With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.

● To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.

● Video mode sequence:
Auto → Film → Video → Auto

● If you turn off the power, the video mode will return to initial default state (Auto).

𝒯 Detailed Description of each Video Mode

Auto : The source material of the DVD video (film material or video material) is determined from disc information.

Film : Suitable for playing film based content or video based material recorded by the progressive scan method.
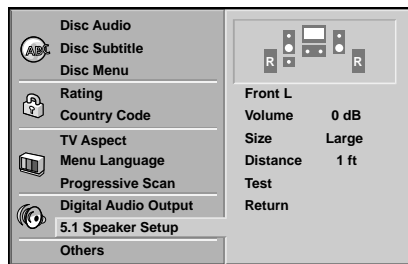
Video : Suitable for playing video based content with comparatively little motion.

𝒩 Note

The video mode setting only works when the Progressive Scan mode is set to "On" on the setup menu.

1-26

Speaker Settings

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

```
Disc Audio
Disc Subtitle
Disc Menu
Rating                    Front L
Country Code              Volume        0 dB
TV Aspect                 Size          Large
Menu Language             Distance      1 ft
Progressive Scan          Test
Digital Audio Output      Return
5.1 Speaker Setup
Others
```

1 Select "5.1 Speaker Setup" using the ▲/▼ buttons on the setup menu.

2 While "5.1 Speaker Setup" is selected, press ▶ button.

3 Press ◄/▶ buttons to select the desired speaker.

4 Adjust options by using ▲/▼/◄/▶ buttons.

Speaker selection

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

Volume

Press ◄/▶ to adjust the output level of the selected speaker. (-10dB - 0dB)

Size

● Press ◄/▶ to set a mode. (Large, Small or None)
● If you have connected the system to a speaker with a low frequency of 100Hz or below, select "Large."
● If you have connected the system to a speaker without a low frequency of 100Hz or below, select "Small." If you have not connected a subwoofer, always select "Large" for Front speaker (L/R).
● When you do not have a certain speaker connected, select "None."
● Front L/R speaker's size can be set to "Large" or "Small."
● If Front L/R speaker's size is set to "Small," Rear and Center speaker's size can be set only to "Small" or "None."
  Subwoofer's size can be set only to "Large".
● Subwoofer's size can be set only to "Large" or "None".

Distance

If you connected speakers to your DVD Player, setting the Distance lets the speakers know how far the sound has to travel to reach your set listening point. This allows the sound from each speaker to reach the listener at the same time. (1 ft = 30.48 cm)

🅝 Note

You cannot set the distance of subwoofer speaker.

Test

Press ENTER to test the signals of each speaker. Adjust the volume to match the volume of test signals memorized in the system.
● Front Left (L) → Center → Front Right (R) → Rear Right (R) → Rear Left (L)

Return

Press ENTER to return to the previous menu.

OPERATION

1-27

Troubleshooting

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

Symptom	Cause	Correction
No power.	● The power cord is disconnected.	● Plug the power cord into the wall outlet securely.
The power is on, but the DVD player does not work.	● No disc is inserted.	● Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.)
No picture.	● The TV is not set to receive DVD signal output.	● Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen.
	● The video cable is not connected securely.	● Connect the video cable securely.
	● The connected TV power is turned off.	● Turn on the TV.
	● The Progressive Scan is set to "On" on the setup menu but is connected to a standard(analog) television.	● Set Progressive Scan to "Off" (see page 14).
No sound./Buzzing sounds.	● The equipment connected with the audio cable is not set to receive DVD signal output.	● Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.
	● The audio cables are not connected securely.	● Connect the audio cable securely.
	● The power of the equipment connected with the audio cable is turned off.	● Turn on the equipment connected with the audio cable.
	● The Digital Audio Output is set to the wrong selection.	● Press Setup on the remote control. Move the cursor down to Digital Audio Output. Press the right cursor. Select the correct output desired. Press ENTER. To get DTS sounds, "Bit Stream/PCM" has to be selected. And use the Digital Output or Optical Out jack. Note that there will be no outputs at 6 ch analog outputs of this set for DTS selection. Next select the appropriate sampling frequency. If your equipment cannot receive 98 KHz, please select 48 KHz or else buzzing sounds will be heard.
The playback picture is poor.	● The disc is dirty.	● Clean the disc.
The DVD player does not start playback.	● No disc is inserted.	● Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.)
	● An unplayable disc is inserted.	● Insert a playable disc. (Check the disc type, color system, and Regional code.)
	● The disc is placed upside down.	● Place the disc with the playback side down.
	● The disc is not placed within the guide.	● Place the disc on the disc tray correctly inside the guide.
	● The disc is dirty.	● Clean the disc.
	● The Rating level is set.	● Cancel the Rating function or change the rating level.
The remote control does not work properly.	● The remote control is not pointed at the remote sensor of the DVD player.	● Point the remote control at the remote sensor of the DVD player.
	● The remote control is too far from the DVD player.	● Operate the remote control within 23 ft (7 m).
	● There is an obstacle in the path of the remote control and the DVD player.	● Remove the obstacle.
	● The batteries in the remote control are exhausted.	● Replace the batteries with new ones.

Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu"
(See page 14).

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

Area Code List

Enter the appropriate code number for the initial setting "Area Code" (See   17).

Code	Area	Code	Area	Code	Area	Code	Area
AD	Andorra	ER	Eritrea	LC	Saint Lucia	SC	Seychelles
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein	SD	Sudan
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka	SE	Sweden
AG	Antigua and Barbuda	FI	Finland	LR	Liberia	SG	Singapore
AI	Anguilla	FJ	Fiji	LS	Lesotho	SH	Saint Helena
AL	Albania	FK	Falkland Islands	LT	Lithuania	SI	Slovenia
AM	Armenia	FM	Micronesia	LU	Luxembourg	SJ	Svalbard and Jan Mayen
AN	Netherlands Antilles	FO	Faroe Islands	LV	Latvia		Islands
AO	Angola	FR	France	LY	Libya	SK	Slovak Republic
AQ	Antarctica	FX	France (European	MA	Morocco	SL	Sierra Leone
AR	Argentina		Territory)	MC	Monaco	SM	San Marino
AS	American Samoa	GA	Gabon	MD	Moldavia	SN	Senegal
AT	Austria	GB	Great Britain	MG	Madagascar	SO	Somalia
AU	Australia	GD	Grenada	MH	Marshall Islands	SR	Suriname
AW	Aruba	GE	Georgia	MK	Macedonia	ST	Saint Tome and Principe
AZ	Azerbaidjan	GF	French Guyana	ML	Mali	SU	Former USSR
BA	Bosnia-Herzegovina	GH	Ghana	MM	Myanmar	SV	El Salvador
BB	Barbados	GI	Gibraltar	MN	Mongolia	SY	Syria
BD	Bangladesh	GL	Greenland	MO	Macau	SZ	Swaziland
BE	Belgium	GM	Gambia	MP	Northern Mariana Islands	TC	Turks and Caicos Islands
BF	Burkina Faso	GN	Guinea	MQ	Martinique (French)	TD	Chad
BG	Bulgaria	GP	Guadeloupe (French)	MR	Mauritania	TF	French Southern
BH	Bahrain	GQ	Equatorial Guinea	MS	Montserrat		Territories
BI	Burundi	GR	Greece	MT	Malta	TG	Togo
BJ	Benin	GS	S. Georgia & S. Sandwich	MU	Mauritius	TH	Thailand
BM	Bermuda		Isls.	MV	Maldives	TJ	Tadjikistan
BN	Brunei Darussalam	GT	Guatemala	MW	Malawi	TK	Tokelau
BO	Bolivia	GU	Guam (USA)	MX	Mexico	TM	Turkmenistan
BR	Brazil	GW	Guinea Bissau	MY	Malaysia	TN	Tunisia
BS	Bahamas	GY	Guyana	MZ	Mozambique	TO	Tonga
BT	Bhutan	HK	Hong Kong	NA	Namibia	TP	East Timor
BV	Bouvet Island	HM	Heard and McDonald	NC	New Caledonia (French)	TR	Turkey
BW	Botswana		Islands	NE	Niger	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NF	Norfolk Island	TV	Tuvalu
BZ	Belize	HR	Croatia	NG	Nigeria	TW	Taiwan
CA	Canada	HT	Haiti	NI	Nicaragua	TZ	Tanzania
CC	Cocos (Keeling) Islands	HU	Hungary	NL	Netherlands	UA	Ukraine
CF	Central African Republic	ID	Indonesia	NO	Norway	UG	Uganda
CG	Congo	IE	Ireland	NP	Nepal	UK	United Kingdom
CH	Switzerland	IL	Israel	NR	Nauru	UM	USA Minor Outlying
CI	Ivory Coast	IN	India	NU	Niue		Islands
CK	Cook Islands	IO	British Indian Ocean	NZ	New Zealand	US	United States
CL	Chile		Territory	OM	Oman	UY	Uruguay
CM	Cameroon	IQ	Iraq	PA	Panama	UZ	Uzbekistan
CN	China	IR	Iran	PE	Peru	VA	Vatican City State
CO	Colombia	IS	Iceland	PF	Polynesia (French)	VC	Saint Vincent &
CR	Costa Rica	IT	Italy	PG	Papua New Guinea		Grenadines
CS	Former Czechoslovakia	JM	Jamaica	PH	Philippines	VE	Venezuela
CU	Cuba	JO	Jordan	PK	Pakistan	VG	Virgin Islands (British)
CV	Cape Verde	JP	Japan	PL	Poland	VI	Virgin Islands (USA)
CX	Christmas Island	KE	Kenya	PM	Saint Pierre and Miquelon	VN	Vietnam
CY	Cyprus	KG	Kyrgyzstan	PN	Pitcairn Island	VU	Vanuatu
CZ	Czech Republic	KH	Cambodia6	PR	Puerto Rico	WF	Wallis and Futuna Islands
DE	Germany	KI	Kiribati	PT	Portugal	WS	Samoa
DJ	Djibouti	KM	Comoros	PW	Palau	YE	Yemen
DK	Denmark	KN	Saint Kitts & Nevis Anguilla	PY	Paraguay	YT	Mayotte
DM	Dominica	KP	North Korea	QA	Qatar	YU	Yugoslavia
DO	Dominican Republic	KR	South Korea	RE	Reunion (French)	ZA	South Africa
DZ	Algeria	KW	Kuwait	RO	Romania	ZM	Zambia
EC	Ecuador	KY	Cayman Islands	RU	Russian Federation	ZR	Zaire
EE	Estonia	KZ	Kazakhstan	RW	Rwanda	ZW	Zimbabwe
EG	Egypt	LA	Laos	SA	Saudi Arabia		
EH	Western Sahara	LB	Lebanon	SB	Solomon Islands		

Specifications

General

Power requirements	AC 110-240V, 50/60 Hz
Power consumption	14W
Dimensions (approx.)	430 X 60 X 242 mm (16.9 x 2.4 x 9.5 inches) (w x h x d)
Mass (approx.)	2.45 kg (5.4 lbs)
Operating temperature	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %

System

Laser	Semiconductor laser, wavelength 650 nm
Signal system	PAL/NTSC
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 100 dB (DVD) More than 95 dB (CD)

Outputs

VIDEO OUT	1 Vp-p 75 Ω, negative sync, RCA jack x 1/ SCART(AV)
S-VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync, Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 Ω
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (optical audio)	5 V (p-p), 75 Ω, Optical connector x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1/ SCART(AV)

Accessory

Video cable 1

Audio cable 1

Remote control .1

Batteries 2

● Design and specifications are subject to change without notice.

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